Nicholls Colton Group
7 - 11 Harding Street
Leicester
LE1 4DH

L21/03109/CTS - 21-20622

Project Reference - STR454 CIS Tower Manchester

Analytical Test Results - Chloride Ion Content of Hardened Concrete

NC Reference	Client Sample Reference	Client Sample Location	Date Sampled	Sample Type	Cement content used for calculation (%)	Chloride Ion by mass of Sample (%)	Chloride Ion by mass of Cement (%)
186643	B1L-37	-	27/08/2021	Dust	14.0	**0.006**	**0.04**
186644	B1L-41	-	27/08/2021	Dust	14.0	**0.006**	**0.04**
186645	B1L-47	-	27/08/2021	Dust	14.0	**0.008**	**0.06**
186646	B1L-52	-	27/08/2021	Dust	14.0	**0.003**	**0.02**
186647	L4-240	-	27/08/2021	Dust	14.0	**0.008**	**0.06**
186648	L4-241	-	27/08/2021	Dust	14.0	**0.005**	**0.04**

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Analysis Methodologies and Notes

Determinant	Test method and notes
Chloride content in hardened concrete by Aquakem	1. Testing was in accordance with in house method statement MS - CL – Chloride in Hardened concrete by Aquakem. 2. Samples were not passed over the 125micron BS Test Sieve before testing. 3 Quality control samples are tested with each batch of samples.

4.2 Compressive strength test certificates

Laboratory Report	ARC/7580	Contract Sample No	DN3485/1
Report Date	05 July 2021	Core Reference	DN3485/1

Construction Testing Solutions

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	01/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	02/07/2021
	Core Location	L25-298
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99
Maximum Length as received (mm)	113
Minimum Length as received (mm)	84
Diameter of reinforcing bar in as received specimen (mm):	6
Distance from centre of steel bar to top of as received specimen (mm): if applicable	90
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	2 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	10.0
Average Length after end preparation (mm)	99.1
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2170**
Failure Load **kN**	**166.2**

Measured Compressive Strength (N/mm^2)	**21.6**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**21.6**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Author [redacted]

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Laboratory Report	ARC/7581	Contract Sample No	DN3485/2
Report Date	05 July 2021	Core Reference	DN3485/2

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	01/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	02/07/2021
	Core Location	L25-305
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.1
Maximum Length as received (mm)	171
Minimum Length as received (mm)	169
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	28
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	2 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	40.0
Average Length after end preparation (mm)	106.1
Length/Diameter Ratio	1.07
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2220**
Failure Load **kN**	**152.2**

Measured Compressive Strength (N/mm^2)	**19.7**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**20.2**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7710	Contract Sample No	DN3485/3
Report Date	12 July 2021	Core Reference	DN3485/3

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	07/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	12/07/2021
	Core Location	L4-227
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.8
Maximum Length as received (mm)	150
Minimum Length as received (mm)	134
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	23
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	12 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	29.0
Average Length after end preparation (mm)	102.6
Length/Diameter Ratio	1.04
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2260**
Failure Load **kN**	**186**

Measured Compressive Strength (N/mm^2)	**24.3**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**24.7**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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P Nodder - Technical Director

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Template Version: 2.3

Laboratory Report	ARC/7711	Contract Sample No	DN3485/4
Report Date	12 July 2021	Core Reference	DN3485/4

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	07/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	12/07/2021
	Core Location	L4-228
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.9
Maximum Length as received (mm)	200
Minimum Length as received (mm)	175
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	12 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	40.0
Average Length after end preparation (mm)	102.4
Length/Diameter Ratio	1.04
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2220**
Failure Load **kN**	**176**

Measured Compressive Strength (N/mm^2)	**22.9**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**23.2**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Template Version: 2.3

Laboratory Report	ARC/7712	Contract Sample No	DN3485/5
Report Date	12 July 2021	Core Reference	DN3485/5

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	07/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	12/07/2021
	Core Location	L4-229
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.1
Maximum Length as received (mm)	187
Minimum Length as received (mm)	163
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	12 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	36.0
Average Length after end preparation (mm)	103.8
Length/Diameter Ratio	1.05
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2260**
Failure Load **kN**	**189.7**

Measured Compressive Strength (N/mm^2)	**24.6**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**25**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Laboratory Report	ARC/7713	Contract Sample No	DN3485/6
Report Date	12 July 2021	Core Reference	DN3485/6

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	07/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	12/07/2021
	Core Location	L4-232
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99
Maximum Length as received (mm)	172
Minimum Length as received (mm)	163
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	12 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	46.0
Average Length after end preparation (mm)	104.0
Length/Diameter Ratio	1.05
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2260**
Failure Load **kN**	**194.8**

Measured Compressive Strength (N/mm^2)	**25.3**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**25.8**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Template Version: 2.3

Laboratory Report	ARC/7714	Contract Sample No	DN3485/7
Report Date	12 July 2021	Core Reference	DN3485/7

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	07/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	12/07/2021
	Core Location	L4-233
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99
Maximum Length as received (mm)	204
Minimum Length as received (mm)	180
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	12 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	57.0
Average Length after end preparation (mm)	101.4
Length/Diameter Ratio	1.02
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2260**
Failure Load **kN**	**239.6**

Measured Compressive Strength (N/mm^2)	**31.1**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**31.4**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7715	Contract Sample No	DN3485/8
Report Date	12 July 2021	Core Reference	DN3485/8

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	07/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	12/07/2021
	Core Location	L4-236
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	97.3
Maximum Length as received (mm)	167
Minimum Length as received (mm)	162
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	12 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	30.0
Average Length after end preparation (mm)	101.6
Length/Diameter Ratio	1.04
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2320**
Failure Load **kN**	**141.6**

Measured Compressive Strength (N/mm^2)	**19.0**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**19.3**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7716	Contract Sample No	DN3485/9
Report Date	12 July 2021	Core Reference	DN3485/9

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	07/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	12/07/2021
	Core Location	L4-237
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98
Maximum Length as received (mm)	183
Minimum Length as received (mm)	169
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	12 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	42.0
Average Length after end preparation (mm)	100.4
Length/Diameter Ratio	1.02
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2290**
Failure Load **kN**	**130.2**

Measured Compressive Strength (N/mm^2)	**17.3**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**17.5**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

Opinions and interpretations not covered by the current scope of UKAS accreditation of this laboratory.

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7717	Contract Sample No	DN3485/10
Report Date	12 July 2021	Core Reference	DN3485/10

Construction Testing Solutions

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	08/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	12/07/2021
	Core Location	L4-242
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	97.1
Maximum Length as received (mm)	140
Minimum Length as received (mm)	116
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	12 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	10.0
Average Length after end preparation (mm)	72.2
Length/Diameter Ratio	0.74
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2340**
Failure Load **kN**	**180.8**

Measured Compressive Strength (N/mm^2)	**24.4**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**21.4****

Volume determined by linear measurement

Density reported to nearest 10kg/m³ with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

**Length/Diameter ratio of prepared cored specimen outside required correction factor range & corrected result should be treated with caution.

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

Opinions and interpretations not covered by the current scope of UKAS accreditation of this laboratory.

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Author [redacted]

[redacted] Director

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Laboratory Report	ARC/7718	Contract Sample No	DN3485/11
Report Date	12 July 2021	Core Reference	DN3485/11

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	07/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	12/07/2021
	Core Location	L4-246
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99
Maximum Length as received (mm)	210
Minimum Length as received (mm)	201
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	12 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	52.0
Average Length after end preparation (mm)	101.2
Length/Diameter Ratio	1.02
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2270**
Failure Load **kN**	**167.4**

Measured Compressive Strength (N/mm^2)	**21.7**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**21.9**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Laboratory Report	ARC/7719	Contract Sample No	DN3485/12
Report Date	12 July 2021	Core Reference	DN3485/12

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	08/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	12/07/2021
	Core Location	L4-247
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.3
Maximum Length as received (mm)	170
Minimum Length as received (mm)	160
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	21
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	12 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	27.0
Average Length after end preparation (mm)	101.7
Length/Diameter Ratio	1.03
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2230**
Failure Load **kN**	**126.1**

Measured Compressive Strength (N/mm^2)	**16.6**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**16.8**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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P Nodder - Technical Director

Notes/Comments

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Laboratory Report	ARC/7720	Contract Sample No	DN3485/13
Report Date	12 July 2021	Core Reference	DN3485/13

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	08/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	12/07/2021
	Core Location	L4-249
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	97.3
Maximum Length as received (mm)	164
Minimum Length as received (mm)	152
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	12 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	26.0
Average Length after end preparation (mm)	98.7
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2300**
Failure Load **kN**	**149**

Measured Compressive Strength (N/mm^2)	**20.0**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**20.1**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7721	Contract Sample No	DN3485/14
Report Date	12 July 2021	Core Reference	DN3485/14

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	07/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	12/07/2021
	Core Location	L4-250
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	97.6
Maximum Length as received (mm)	190
Minimum Length as received (mm)	170
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	12 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	25.0
Average Length after end preparation (mm)	99.6
Length/Diameter Ratio	1.02
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2270**
Failure Load **kN**	**134.5**

Measured Compressive Strength (N/mm^2)	**18.0**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**18.1**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7723	Contract Sample No	DN3485/15
Report Date	13 July 2021	Core Reference	DN3485/15

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	09/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	12/07/2021
	Core Location	L4-226
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	73.6
Maximum Length as received (mm)	183
Minimum Length as received (mm)	162
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	25
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	12 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	66.0
Average Length after end preparation (mm)	75.0
Length/Diameter Ratio	1.02
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2210**
Failure Load **kN**	**53.1**

Measured Compressive Strength (N/mm^2)	**12.5**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**12.6**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7724	Contract Sample No	DN3485/15
Report Date	13 July 2021	Core Reference	DN3485/15

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	09/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	12/07/2021
	Core Location	L4-251
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.1
Maximum Length as received (mm)	181
Minimum Length as received (mm)	169
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	24
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	12 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	42.0
Average Length after end preparation (mm)	99.1
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2350**
Failure Load **kN**	**166.8**

Measured Compressive Strength (N/mm^2)	**21.6**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**21.6**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

Opinions and interpretations not covered by the current scope of UKAS accreditation of this laboratory.

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Author [redacted]

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[redacted]

Laboratory Report	ARC/7759	Contract Sample No	DN3485/17
Report Date	15 July 2021	Core Reference	DN3485/17

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	13/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/07/2021
	Core Location	L2-184
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.1
Maximum Length as received (mm)	172
Minimum Length as received (mm)	162
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	21
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	33.0
Average Length after end preparation (mm)	101.4
Length/Diameter Ratio	1.02
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2200**
Failure Load **kN**	**130.6**

Measured Compressive Strength (N/mm^2)	**16.9**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**17.1**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7760	Contract Sample No	DN3485/18
Report Date	15 July 2021	Core Reference	DN3485/18

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	13/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/07/2021
	Core Location	L2-185
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.1
Maximum Length as received (mm)	149
Minimum Length as received (mm)	142
Diameter of reinforcing bar in as received specimen (mm):	5
Distance from centre of steel bar to top of as received specimen (mm): if applicable	124
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	25
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	8.0
Average Length after end preparation (mm)	101.8
Length/Diameter Ratio	1.03
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2260**
Failure Load **kN**	**182**

Measured Compressive Strength (N/mm^2)	**23.6**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**23.9**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

Opinions and interpretations not covered by the current scope of UKAS accreditation of this laboratory.

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7761	Contract Sample No	DN3485/19
Report Date	15 July 2021	Core Reference	DN3485/19

Construction Testing Solutions

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UKAS TESTING 4161

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Email: enquiries@constructiontesting.co.uk
Web: www.constructiontesting.co.uk

Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	13/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/07/2021
	Core Location	L2-186
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	159
Minimum Length as received (mm)	151
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	4.0
Average Length after end preparation (mm)	101.5
Length/Diameter Ratio	1.02
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2210**
Failure Load **kN**	**129**

Measured Compressive Strength (N/mm^2)	**16.7**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**16.9**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7762	Contract Sample No	DN3485/20
Report Date	15 July 2021	Core Reference	DN3485/20

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	13/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/07/2021
	Core Location	L2-187
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	155
Minimum Length as received (mm)	142
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	8.0
Average Length after end preparation (mm)	102.0
Length/Diameter Ratio	1.03
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2210**
Failure Load **kN**	**146.9**

Measured Compressive Strength (N/mm^2)	**19.0**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**19.2**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7763	Contract Sample No	DN3485/21
Report Date	15 July 2021	Core Reference	DN3485/21

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	13/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/07/2021
	Core Location	L2-191
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.1
Maximum Length as received (mm)	152
Minimum Length as received (mm)	143
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	22
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	8.0
Average Length after end preparation (mm)	102.7
Length/Diameter Ratio	1.04
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2260**
Failure Load **kN**	**185.2**

Measured Compressive Strength (N/mm^2)	**24.0**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**24.3**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Template Version: 2.3

Laboratory Report	ARC/7764	Contract Sample No	DN3485/22
Report Date	15 July 2021	Core Reference	DN3485/22

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	13/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/07/2021
	Core Location	L2-194
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	130
Minimum Length as received (mm)	116
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	12.0
Average Length after end preparation (mm)	100.2
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2250**
Failure Load **kN**	**197.2**

Measured Compressive Strength (N/mm^2)	**25.5**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**25.6**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Template Version: 2.3

Laboratory Report	ARC/7765	Contract Sample No	DN3485/23
Report Date	15 July 2021	Core Reference	DN3485/23

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	13/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/07/2021
	Core Location	L2-195
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	182
Minimum Length as received (mm)	156
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	35.0
Average Length after end preparation (mm)	103.1
Length/Diameter Ratio	1.04
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2250**
Failure Load **kN**	**217**

Measured Compressive Strength (N/mm^2)	**28.1**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**28.5**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7766	Contract Sample No	DN3485/24
Report Date	15 July 2021	Core Reference	DN3485/24

Construction Testing Solutions

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	13/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/07/2021
	Core Location	L2-196
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.1
Maximum Length as received (mm)	153
Minimum Length as received (mm)	138
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	25
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	14.0
Average Length after end preparation (mm)	99.9
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2250**
Failure Load **kN**	**210**

Measured Compressive Strength (N/mm^2)	**27.2**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**27.3**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7767	Contract Sample No	DN3485/25
Report Date	15 July 2021	Core Reference	DN3485/25

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	13/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/07/2021
	Core Location	L2-199
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	192
Minimum Length as received (mm)	162
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	64.0
Average Length after end preparation (mm)	101.4
Length/Diameter Ratio	1.02
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2260**
Failure Load **kN**	**152**

Measured Compressive Strength (N/mm^2)	**19.7**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**19.9**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7768	Contract Sample No	DN3485/26
Report Date	15 July 2021	Core Reference	DN3485/26

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	13/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/07/2021
	Core Location	L2-204
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.1
Maximum Length as received (mm)	198
Minimum Length as received (mm)	178
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	66.0
Average Length after end preparation (mm)	98.7
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2210**
Failure Load **kN**	**129.5**

Measured Compressive Strength (N/mm^2)	**16.8**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**16.8**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7769	Contract Sample No	DN3485/27
Report Date	15 July 2021	Core Reference	DN3485/27

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	13/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/07/2021
	Core Location	L2-205
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.1
Maximum Length as received (mm)	196
Minimum Length as received (mm)	183
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	47.0
Average Length after end preparation (mm)	98.6
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2230**
Failure Load **kN**	**157**

Measured Compressive Strength (N/mm^2)	**20.4**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**20.4**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

Opinions and interpretations not covered by the current scope of UKAS accreditation of this laboratory.

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7770	Contract Sample No	DN3485/28
Report Date	15 July 2021	Core Reference	DN3485/28

Construction Testing Solutions

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UKAS TESTING 4161

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Email: enquiries@constructiontesting.co.uk
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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	13/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/07/2021
	Core Location	L2-207
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99
Maximum Length as received (mm)	165
Minimum Length as received (mm)	142
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	8.0
Average Length after end preparation (mm)	100.4
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2300**
Failure Load **kN**	**165.5**

Measured Compressive Strength (N/mm^2)	**21.5**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**21.6**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7771	Contract Sample No	DN3485/29
Report Date	15 July 2021	Core Reference	DN3485/29

Construction Testing Solutions

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	13/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/07/2021
	Core Location	L2-209
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.9
Maximum Length as received (mm)	149
Minimum Length as received (mm)	123
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	22
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	2.0
Average Length after end preparation (mm)	99.6
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2320**
Failure Load **kN**	**185.3**

Measured Compressive Strength (N/mm^2)	**24.1**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**24.2**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7772	Contract Sample No	DN3485/30
Report Date	15 July 2021	Core Reference	DN3485/30

Construction Testing Solutions

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	12/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/07/2021
	Core Location	L2-208
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.1
Maximum Length as received (mm)	178
Minimum Length as received (mm)	154
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	27
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	0.0
Average Length after end preparation (mm)	100.5
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2260**
Failure Load **kN**	**181**

Measured Compressive Strength (N/mm^2)	**23.5**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**23.6**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7808	Contract Sample No	DN3485/31
Report Date	20 July 2021	Core Reference	DN3485/31

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	16/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	19/07/2021
	Core Location	B3-1
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	169
Minimum Length as received (mm)	149
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	19 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	32.0
Average Length after end preparation (mm)	100.1
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2160**
Failure Load **kN**	**186.5**

Measured Compressive Strength (N/mm^2)	**24.1**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**24.2**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7809	Contract Sample No	DN3485/32
Report Date	20 July 2021	Core Reference	DN3485/32

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	16/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	19/07/2021
	Core Location	B3-2
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	162
Minimum Length as received (mm)	153
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	19 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	33.0
Average Length after end preparation (mm)	101.3
Length/Diameter Ratio	1.02
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2220**
Failure Load **kN**	**190.1**

Measured Compressive Strength (N/mm^2)	**24.6**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**24.8**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Template Version: 2.3

Laboratory Report	ARC/7810	Contract Sample No	DN3485/33
Report Date	20 July 2021	Core Reference	DN3485/33

Construction Testing Solutions

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	16/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	19/07/2021
	Core Location	B3-3
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	190
Minimum Length as received (mm)	171
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	22
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	19 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	43.0
Average Length after end preparation (mm)	99.3
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2280**
Failure Load **kN**	**293.1**

Measured Compressive Strength (N/mm^2)	**37.9**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**37.9**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7811	Contract Sample No	DN3485/34
Report Date	20 July 2021	Core Reference	DN3485/34

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	16/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	19/07/2021
	Core Location	B3-4
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	152
Minimum Length as received (mm)	130
Diameter of reinforcing bar in as received specimen (mm):	3
Distance from centre of steel bar to top of as received specimen (mm): if applicable	119
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	19 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	17.0
Average Length after end preparation (mm)	99.4
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2280**
Failure Load **kN**	**227.8**

Measured Compressive Strength (N/mm^2)	**29.5**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**29.5**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7812	Contract Sample No	DN3485/35
Report Date	20 July 2021	Core Reference	DN3485/35

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	16/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	19/07/2021
	Core Location	B3-5
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.3
Maximum Length as received (mm)	175
Minimum Length as received (mm)	159
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	19 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	47.0
Average Length after end preparation (mm)	100.2
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2280**
Failure Load **kN**	**339.4**

Measured Compressive Strength (N/mm^2)	**43.8**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**44**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7813	Contract Sample No	DN3485/36
Report Date	20 July 2021	Core Reference	DN3485/36

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Bowmer & Kirkland	Material Specification	**Not stated**
1st Floor, Altitude	Date Cast	**Not stated**
Atlas Business Park	Date Drilled	16/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	19/07/2021
	Core Location	B3-6
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.3
Maximum Length as received (mm)	147
Minimum Length as received (mm)	133
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, minimal voids
Estimated Maximum Aggregate size (mm)	24
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	19 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	28.0
Average Length after end preparation (mm)	99.6
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2230**
Failure Load **kN**	**289.6**

Measured Compressive Strength (N/mm^2)	**37.4**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**37.4**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

Opinions and interpretations not covered by the current scope of UKAS accreditation of this laboratory.

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Authorised Signatory

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7912	Contract Sample No	DN3485/37
Report Date	27 July 2021	Core Reference	DN3485/37

Construction Testing Solutions

Bootham Lane Industrial Estate
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UKAS TESTING 4161

Tel: (01302) 352652
Email: enquiries@constructiontesting.co.uk
Web: www.constructiontesting.co.uk

Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	22/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	26/07/2021
	Core Location	ML-140
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.1
Maximum Length as received (mm)	166
Minimum Length as received (mm)	160
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	24
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	26 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	38.0
Average Length after end preparation (mm)	100.7
Length/Diameter Ratio	1.02
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2250**
Failure Load **kN**	**183.7**

Measured Compressive Strength (N/mm^2)	**23.8**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**24**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7913	Contract Sample No	DN3485/38
Report Date	27 July 2021	Core Reference	DN3485/38

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	22/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	26/07/2021
	Core Location	ML-144
	Drilled By	Not stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	138
Minimum Length as received (mm)	123
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Some Voidage
Estimated Maximum Aggregate size (mm)	29
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0.5

Prepared Specimen Details	
Date of Test	26 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	22.0
Average Length after end preparation (mm)	99.4
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2190**
Failure Load **kN**	**161**

Measured Compressive Strength (N/mm^2)	**20.8**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**20.8**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7914	Contract Sample No	DN3485/39
Report Date	27 July 2021	Core Reference	DN3485/39

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	22/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	26/07/2021
	Core Location	ML-145
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.3
Maximum Length as received (mm)	162
Minimum Length as received (mm)	142
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	26
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	26 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	39.0
Average Length after end preparation (mm)	100.8
Length/Diameter Ratio	1.02
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2260**
Failure Load **kN**	**202.8**

Measured Compressive Strength (N/mm^2)	**26.2**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**26.4**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7915	Contract Sample No	DN3485/40
Report Date	27 July 2021	Core Reference	DN3485/40

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	22/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	26/07/2021
	Core Location	ML-148
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.3
Maximum Length as received (mm)	140
Minimum Length as received (mm)	136
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	26
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	26 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	37.0
Average Length after end preparation (mm)	101.8
Length/Diameter Ratio	1.03
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2230**
Failure Load **kN**	**290.4**

Measured Compressive Strength (N/mm^2)	**37.5**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**37.9**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7967	Contract Sample No	DN3485/41
Report Date	28 July 2021	Core Reference	DN3485/41

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	23/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	27/07/2021
	Core Location	ML-151
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.6
Maximum Length as received (mm)	149
Minimum Length as received (mm)	139
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	15
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	27 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	35.0
Average Length after end preparation (mm)	99.9
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2210**
Failure Load **kN**	**176.9**

Measured Compressive Strength (N/mm^2)	**22.7**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**22.7**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7968	Contract Sample No	DN3485/42
Report Date	28 July 2021	Core Reference	DN3485/42

Construction Testing Solutions

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	23/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	27/07/2021
	Core Location	ML-152
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.4
Maximum Length as received (mm)	157
Minimum Length as received (mm)	136
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	27 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	35.0
Average Length after end preparation (mm)	99.5
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2190**
Failure Load **kN**	**164.5**

Measured Compressive Strength (N/mm^2)	**21.2**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**21.2**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/7969	Contract Sample No	DN3485/43
Report Date	28 July 2021	Core Reference	DN3485/43

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	23/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	27/07/2021
	Core Location	ML-153
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.6
Maximum Length as received (mm)	151
Minimum Length as received (mm)	133
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	15
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	27 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	35.0
Average Length after end preparation (mm)	99.9
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2170**
Failure Load **kN**	**193.7**

Measured Compressive Strength (N/mm^2)	**24.9**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**24.9**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8013	Contract Sample No	DN3485/44
Report Date	29 July 2021	Core Reference	DN3485/44

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	26/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	28/07/2021
	Core Location	ML-138
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.5
Maximum Length as received (mm)	149
Minimum Length as received (mm)	127
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	15
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	28 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	25.0
Average Length after end preparation (mm)	99.2
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2230**
Failure Load **kN**	**349.4**

Measured Compressive Strength (N/mm^2)	**44.9**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**44.8**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8014	Contract Sample No	DN3485/45
Report Date	29 July 2021	Core Reference	DN3485/45

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	26/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	28/07/2021
	Core Location	ML-139
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.5
Maximum Length as received (mm)	145
Minimum Length as received (mm)	117
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	15
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	28 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	15.0
Average Length after end preparation (mm)	97.9
Length/Diameter Ratio	0.98
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2210**
Failure Load **kN**	**283**

Measured Compressive Strength (N/mm^2)	**36.4**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**36.2**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

Opinions and interpretations not covered by the current scope of UKAS accreditation of this laboratory.

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8015	Contract Sample No	DN3485/46
Report Date	29 July 2021	Core Reference	DN3485/46

Construction Testing Solutions

Bootham Lane Industrial Estate
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UKAS TESTING 4161

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	26/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	28/07/2021
	Core Location	ML-149
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.5
Maximum Length as received (mm)	160
Minimum Length as received (mm)	147
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	15
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	28 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	50.0
Average Length after end preparation (mm)	99.4
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2210**
Failure Load **kN**	**166.9**

Measured Compressive Strength (N/mm^2)	**21.5**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**21.5**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8016	Contract Sample No	DN3485/47
Report Date	29 July 2021	Core Reference	DN3485/47

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	26/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	28/07/2021
	Core Location	ML-154
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.5
Maximum Length as received (mm)	172
Minimum Length as received (mm)	155
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	15
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	28 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	50.0
Average Length after end preparation (mm)	98.6
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2190**
Failure Load **kN**	**127**

Measured Compressive Strength (N/mm^2)	**16.3**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**16.2**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8017	Contract Sample No	DN3485/48
Report Date	29 July 2021	Core Reference	DN3485/48

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	27/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	29/07/2021
	Core Location	B2-7
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	120
Minimum Length as received (mm)	105
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Few Small Surface Voids
Estimated Maximum Aggregate size (mm)	15
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0.5

Prepared Specimen Details	
Date of Test	29 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	5.0
Average Length after end preparation (mm)	101.9
Length/Diameter Ratio	1.03
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2320**
Failure Load **kN**	**419.3**

Measured Compressive Strength (N/mm^2)	**54.3**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**54.9**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8018	Contract Sample No	DN3485/49
Report Date	29 July 2021	Core Reference	DN3485/49

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	27/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	29/07/2021
	Core Location	B2-8
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.1
Maximum Length as received (mm)	165
Minimum Length as received (mm)	115
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids, Large Agg
Estimated Maximum Aggregate size (mm)	25
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	29 July 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	50.0
Average Length after end preparation (mm)	100.4
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2320**
Failure Load **kN**	**418.2**

Measured Compressive Strength (N/mm^2)	**54.2**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**54.5**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8089	Contract Sample No	DN3485/50
Report Date	02 August 2021	Core Reference	DN3485/50

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	28/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	02/08/2021
	Core Location	L0-100
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.8
Maximum Length as received (mm)	162
Minimum Length as received (mm)	149
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	2 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	37.0
Average Length after end preparation (mm)	95.0
Length/Diameter Ratio	0.96
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2170
Failure Load **kN**	175.4

Measured Compressive Strength (N/mm ^{2})	22.9
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	22.5

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8090	Contract Sample No	DN3485/51
Report Date	02 August 2021	Core Reference	DN3485/51

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	28/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	02/08/2021
	Core Location	L0-101
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.9
Maximum Length as received (mm)	167
Minimum Length as received (mm)	162
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	2 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	37.0
Average Length after end preparation (mm)	98.5
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2200
Failure Load **kN**	180.4

Measured Compressive Strength (N/mm ^{2})	23.5
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	23.5

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8091	Contract Sample No	DN3485/52
Report Date	02 August 2021	Core Reference	DN3485/52

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	28/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	02/08/2021
	Core Location	L0-104
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.7
Maximum Length as received (mm)	163
Minimum Length as received (mm)	145
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	2 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	32.0
Average Length after end preparation (mm)	99.7
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2250
Failure Load **kN**	196.8

Measured Compressive Strength (N/mm ^{2})	25.7
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	25.8

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8092	Contract Sample No	DN3485/53
Report Date	02 August 2021	Core Reference	DN3485/53

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	28/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	02/08/2021
	Core Location	L0-106
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.7
Maximum Length as received (mm)	133
Minimum Length as received (mm)	113
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	2 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	3.0
Average Length after end preparation (mm)	99.7
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2290
Failure Load **kN**	218.3

Measured Compressive Strength (N/mm ^{2})	28.5
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	28.6

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8093	Contract Sample No	DN3485/54
Report Date	02 August 2021	Core Reference	DN3485/54

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	28/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	02/08/2021
	Core Location	L0-109
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.9
Maximum Length as received (mm)	121
Minimum Length as received (mm)	103
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	2 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	4.0
Average Length after end preparation (mm)	96.0
Length/Diameter Ratio	0.97
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2210
Failure Load **kN**	201.7

Measured Compressive Strength (N/mm ^{2})	26.3
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	26

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

Opinions and interpretations not covered by the current scope of UKAS accreditation of this laboratory.

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8094	Contract Sample No	DN3485/55
Report Date	02 August 2021	Core Reference	DN3485/55

Construction Testing Solutions

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UKAS TESTING 4161

Tel: (01302) 352652
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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	28/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	02/08/2021
	Core Location	L0-117
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99
Maximum Length as received (mm)	151
Minimum Length as received (mm)	131
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	2 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	11.0
Average Length after end preparation (mm)	98.7
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2260
Failure Load **kN**	239.7

Measured Compressive Strength (N/mm ^{2})	31.1
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	31.1

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8095	Contract Sample No	DN3485/56
Report Date	02 August 2021	Core Reference	DN3485/56

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	28/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	02/08/2021
	Core Location	L0-118
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.8
Maximum Length as received (mm)	179
Minimum Length as received (mm)	177
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	24
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	2 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	41.0
Average Length after end preparation (mm)	98.4
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2060
Failure Load **kN**	228.4

Measured Compressive Strength (N/mm ^{2})	29.8
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	29.8

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8096	Contract Sample No	DN3485/57
Report Date	02 August 2021	Core Reference	DN3485/57

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	28/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	02/08/2021
	Core Location	L0-121
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.9
Maximum Length as received (mm)	145
Minimum Length as received (mm)	124
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	2 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	7.0
Average Length after end preparation (mm)	98.0
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2260
Failure Load **kN**	184

Measured Compressive Strength (N/mm ^{2})	24.0
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	23.9

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8097	Contract Sample No	DN3485/58
Report Date	02 August 2021	Core Reference	DN3485/58

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Bowmer & Kirkland
1st Floor, Altitude
Atlas Business Park
Manchester
M22 5PR

Material Specification	**Not Stated**
Date Cast	**Not Stated**
Date Drilled	28/07/2021
Sampling Plan	Client Specification
Date Completed	02/08/2021
Core Location	L0-122
Drilled By	Not Stated
Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99
Maximum Length as received (mm)	146
Minimum Length as received (mm)	126
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	2 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	18.0
Average Length after end preparation (mm)	100.5
Length/Diameter Ratio	1.02
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2200
Failure Load **kN**	206.9

Measured Compressive Strength (N/mm ^{2})	26.9
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	27.1

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8098	Contract Sample No	DN3485/59
Report Date	02 August 2021	Core Reference	DN3485/59

Construction Testing Solutions

Bowmer & Kirkland
1st Floor, Altitude
Atlas Business Park
Manchester
M22 5PR

Material Specification	**Not Stated**
Date Cast	**Not Stated**
Date Drilled	28/07/2021
Sampling Plan	Client Specification
Date Completed	02/08/2021
Core Location	L0-124
Drilled By	Not Stated
Client Reference	**STR454**

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Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.9
Maximum Length as received (mm)	161
Minimum Length as received (mm)	131
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	33
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	2 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	14.0
Average Length after end preparation (mm)	99.0
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2120
Failure Load **kN**	110.5

Measured Compressive Strength (N/mm ^{2})	14.4
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	14.4

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8099	Contract Sample No	DN3485/60
Report Date	02 August 2021	Core Reference	DN3485/60

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	28/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	02/08/2021
	Core Location	L0-125
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.7
Maximum Length as received (mm)	164
Minimum Length as received (mm)	154
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	31
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	2 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	33.0
Average Length after end preparation (mm)	98.6
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2170
Failure Load **kN**	145.6

Measured Compressive Strength (N/mm ^{2})	19.0
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	19

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8100	Contract Sample No	DN3485/61
Report Date	02 August 2021	Core Reference	DN3485/61

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	28/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	02/08/2021
	Core Location	L0-131
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99
Maximum Length as received (mm)	147
Minimum Length as received (mm)	124
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	2 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	22.0
Average Length after end preparation (mm)	98.4
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2190
Failure Load **kN**	182.9

Measured Compressive Strength (N/mm ^{2})	23.8
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	23.7

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8101	Contract Sample No	DN3485/62
Report Date	02 August 2021	Core Reference	DN3485/62

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	28/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	02/08/2021
	Core Location	L0-134
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.9
Maximum Length as received (mm)	142
Minimum Length as received (mm)	117
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	2 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	14.0
Average Length after end preparation (mm)	97.7
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2200
Failure Load **kN**	107.8

Measured Compressive Strength (N/mm ^{2})	14.0
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	13.9

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Template Version: 2.3

Laboratory Report	ARC/8135	Contract Sample No	DN3485/63
Report Date	02 August 2021	Core Reference	DN3485/63

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	30/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	02/08/2021
	Core Location	L0-96
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.9
Maximum Length as received (mm)	157
Minimum Length as received (mm)	145
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	2 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	32.0
Average Length after end preparation (mm)	96.6
Length/Diameter Ratio	0.98
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2340
Failure Load **kN**	262.6

Measured Compressive Strength (N/mm ^{2})	34.2
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	33.9

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8136	Contract Sample No	DN3485/64
Report Date	02 August 2021	Core Reference	DN3485/64

Construction Testing Solutions

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	30/07/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	02/08/2021
	Core Location	L0-97
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.9
Maximum Length as received (mm)	136
Minimum Length as received (mm)	126
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	2 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	25.0
Average Length after end preparation (mm)	97.7
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2250
Failure Load **kN**	131.3

Measured Compressive Strength (N/mm ^{2})	17.1
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	17

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

Opinions and interpretations not covered by the current scope of UKAS accreditation of this laboratory.

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8175	Contract Sample No	DN3485/65
Report Date	05 August 2021	Core Reference	DN3485/65

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	02/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	04/08/2021
	Core Location	L0-137
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.5
Maximum Length as received (mm)	140
Minimum Length as received (mm)	120
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Some Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	3

Prepared Specimen Details	
Date of Test	4 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	15.0
Average Length after end preparation (mm)	98.4
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2130
Failure Load **kN**	59.7

Measured Compressive Strength (N/mm^2)	7.8
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	7.8

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8176	Contract Sample No	DN3485/66
Report Date	05 August 2021	Core Reference	DN3485/66

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	02/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	04/08/2021
	Core Location	L3-212
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.8
Maximum Length as received (mm)	145
Minimum Length as received (mm)	136
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	4 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	22.0
Average Length after end preparation (mm)	98.5
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2220
Failure Load **kN**	181.2

Measured Compressive Strength (N/mm^2)	23.6
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	23.6

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8177	Contract Sample No	DN3485/67
Report Date	05 August 2021	Core Reference	DN3485/67

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	02/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	04/08/2021
	Core Location	L3-213
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.7
Maximum Length as received (mm)	136
Minimum Length as received (mm)	130
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	29
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	4 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	31.0
Average Length after end preparation (mm)	98.9
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2270
Failure Load **kN**	263.6

Measured Compressive Strength (N/mm^2)	34.5
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	34.5

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8178	Contract Sample No	DN3485/68
Report Date	05 August 2021	Core Reference	DN3485/68

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	03/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	04/08/2021
	Core Location	L3-210
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.7
Maximum Length as received (mm)	162
Minimum Length as received (mm)	144
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Some Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	4 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	18.0
Average Length after end preparation (mm)	97.8
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2300
Failure Load **kN**	167.2

Measured Compressive Strength (N/mm^2)	21.9
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	21.8

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8179	Contract Sample No	DN3485/69
Report Date	05 August 2021	Core Reference	DN3485/69

Construction Testing Solutions

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	03/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	04/08/2021
	Core Location	L3-211
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.6
Maximum Length as received (mm)	162
Minimum Length as received (mm)	145
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Some Voids
Estimated Maximum Aggregate size (mm)	30
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	4 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	25.0
Average Length after end preparation (mm)	97.9
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2290
Failure Load **kN**	138.7

Measured Compressive Strength (N/mm^2)	18.2
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	18.1

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8180	Contract Sample No	DN3485/70
Report Date	05 August 2021	Core Reference	DN3485/70

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	03/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	04/08/2021
	Core Location	L3-214
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99
Maximum Length as received (mm)	169
Minimum Length as received (mm)	151
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Some Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	4 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	43.0
Average Length after end preparation (mm)	98.0
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2300
Failure Load **kN**	154.9

Measured Compressive Strength (N/mm^2)	20.1
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	20

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8181	Contract Sample No	DN3485/71
Report Date	05 August 2021	Core Reference	DN3485/71

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	03/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	04/08/2021
	Core Location	L3-217
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.9
Maximum Length as received (mm)	152
Minimum Length as received (mm)	138
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Mininal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	4 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	13.0
Average Length after end preparation (mm)	98.6
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	3900
Failure Load **kN**	164.1

Measured Compressive Strength (N/mm^2)	21.4
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	21.4

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8182	Contract Sample No	DN3485/72
Report Date	05 August 2021	Core Reference	DN3485/72

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	03/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	04/08/2021
	Core Location	L3-218
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.8
Maximum Length as received (mm)	145
Minimum Length as received (mm)	131
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Mininal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	4 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	19.0
Average Length after end preparation (mm)	98.2
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2200
Failure Load **kN**	152.5

Measured Compressive Strength (N/mm^2)	19.9
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	19.9

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

Opinions and interpretations not covered by the current scope of UKAS accreditation of this laboratory.

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8183	Contract Sample No	DN3485/73
Report Date	05 August 2021	Core Reference	DN3485/73

Construction Testing Solutions

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	03/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	04/08/2021
	Core Location	L3-219
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.9
Maximum Length as received (mm)	151
Minimum Length as received (mm)	131
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Mininal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	4 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	7.0
Average Length after end preparation (mm)	100.7
Length/Diameter Ratio	1.02
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2240
Failure Load **kN**	251.5

Measured Compressive Strength (N/mm^2)	32.7
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	32.9

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Laboratory Report	ARC/8184	Contract Sample No	DN3485/74
Report Date	05 August 2021	Core Reference	DN3485/74

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	03/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	04/08/2021
	Core Location	L3-220
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.9
Maximum Length as received (mm)	152
Minimum Length as received (mm)	145
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Mininal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	4 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	22.0
Average Length after end preparation (mm)	98.6
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2230
Failure Load **kN**	168.9

Measured Compressive Strength (N/mm^2)	22.0
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	22

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8185	Contract Sample No	DN3485/75
Report Date	05 August 2021	Core Reference	DN3485/75

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	03/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	04/08/2021
	Core Location	L3-221
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.7
Maximum Length as received (mm)	215
Minimum Length as received (mm)	178
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Mininal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	4 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	53.0
Average Length after end preparation (mm)	98.7
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2260
Failure Load **kN**	116.7

Measured Compressive Strength (N/mm^2)	15.3
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	15.3

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8186	Contract Sample No	DN3485/76
Report Date	05 August 2021	Core Reference	DN3485/76

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	03/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	04/08/2021
	Core Location	L3-222
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99
Maximum Length as received (mm)	161
Minimum Length as received (mm)	97
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Crack Either Side,, Minimal Voids, Core Spilt While being cut
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	4 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	18.0
Average Length after end preparation (mm)	0.0
Length/Diameter Ratio	0
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	N/A
Failure Load **kN**	N/A

Measured Compressive Strength (N/mm^2)	N/A
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	N/A

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

**Length/Diameter ratio of prepared cored specimen outside required correction factor range & corrected result should be treated with caution.

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P Nodder - Technical Director

Notes/Comments
Not suitable for test

Template Version: 2.3

Laboratory Report	ARC/8187	Contract Sample No	DN3485/77
Report Date	05 August 2021	Core Reference	DN3485/77

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	03/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	04/08/2021
	Core Location	L3-223
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99
Maximum Length as received (mm)	153
Minimum Length as received (mm)	133
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate,Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	4 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	20.0
Average Length after end preparation (mm)	99.2
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2240
Failure Load **kN**	153.5

Measured Compressive Strength (N/mm^2)	19.9
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	19.9

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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P Nodder - Technical Director

Notes/Comments
Not suitable for test

Template Version: 2.3

Laboratory Report	ARC/8188	Contract Sample No	DN3485/78
Report Date	05 August 2021	Core Reference	DN3485/78

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	03/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	04/08/2021
	Core Location	L3-224
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.8
Maximum Length as received (mm)	159
Minimum Length as received (mm)	147
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate,Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	4 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	24.0
Average Length after end preparation (mm)	99.4
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2260
Failure Load **kN**	226.4

Measured Compressive Strength (N/mm^2)	29.5
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	29.6

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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P Nodder - Technical Director

Notes/Comments
Not suitable for test

Template Version: 2.3

Laboratory Report	ARC/8211	Contract Sample No	DN3485/79
Report Date	09 August 2021	Core Reference	DN3485/79

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	04/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	07/08/2021
	Core Location	L1 - 155
	Drilled By	Not Stated
	Client Reference	**STR 454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99
Maximum Length as received (mm)	134
Minimum Length as received (mm)	118
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	7 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	8.0
Average Length after end preparation (mm)	98.0
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2270
Failure Load **kN**	266.8

Measured Compressive Strength (N/mm ^{2})	34.7
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	34.6

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8212	Contract Sample No	DN3485/80
Report Date	09 August 2021	Core Reference	DN3485/80

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	05/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	07/08/2021
	Core Location	L1 - 156
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99
Maximum Length as received (mm)	160
Minimum Length as received (mm)	147
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	7 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	41.0
Average Length after end preparation (mm)	98.8
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2210
Failure Load **kN**	202.1

Measured Compressive Strength (N/mm ^{2})	26.3
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	26.3

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8213	Contract Sample No	DN3485/81
Report Date	09 August 2021	Core Reference	DN3485/81

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	05/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	07/08/2021
	Core Location	L1 - 157
	Drilled By	Not Stated
	Client Reference	**STR 454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.1
Maximum Length as received (mm)	188
Minimum Length as received (mm)	170
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	7 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	54.0
Average Length after end preparation (mm)	99.8
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2240
Failure Load **kN**	189.2

Measured Compressive Strength (N/mm ^{2})	24.5
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	24.6

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

Opinions and interpretations not covered by the current scope of UKAS accreditation of this laboratory.

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8214	Contract Sample No	DN3485/82
Report Date	09 August 2021	Core Reference	DN3485/82

Construction Testing Solutions

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UKAS TESTING 4161

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Web: www.constructiontesting.co.uk

Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	05/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	07/08/2021
	Core Location	L1 - 158
	Drilled By	Not Stated
	Client Reference	**STR 454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.1
Maximum Length as received (mm)	185
Minimum Length as received (mm)	147
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	7 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	23.0
Average Length after end preparation (mm)	99.0
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2180
Failure Load **kN**	152.9

Measured Compressive Strength (N/mm ^{2})	19.8
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	19.8

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8215	Contract Sample No	DN3485/83
Report Date	09 August 2021	Core Reference	DN3485/83

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	04/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	07/08/2021
	Core Location	L1 - 161
	Drilled By	Not Stated
	Client Reference	**STR 454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99
Maximum Length as received (mm)	155
Minimum Length as received (mm)	133
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	7 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	18.0
Average Length after end preparation (mm)	98.5
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2240
Failure Load **kN**	204.1

Measured Compressive Strength (N/mm ^{2})	26.5
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	26.4

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8216	Contract Sample No	DN3485/84
Report Date	09 August 2021	Core Reference	DN3485/84

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	04/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	07/08/2021
	Core Location	L1 - 165
	Drilled By	Not Stated
	Client Reference	**STR 454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99
Maximum Length as received (mm)	172
Minimum Length as received (mm)	161
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	7 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	38.0
Average Length after end preparation (mm)	98.5
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2220
Failure Load **kN**	123.6

Measured Compressive Strength (N/mm ^{2})	16.1
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	16.1

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Template Version: 2.3

Laboratory Report	ARC/8217	Contract Sample No	DN3485/85
Report Date	09 August 2021	Core Reference	DN3485/85

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	04/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	07/08/2021
	Core Location	L1 - 166
	Drilled By	Not Stated
	Client Reference	**STR 454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99
Maximum Length as received (mm)	162
Minimum Length as received (mm)	147
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	7 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	15.0
Average Length after end preparation (mm)	100.0
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2260
Failure Load **kN**	207.1

Measured Compressive Strength (N/mm ^{2})	26.9
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	27

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8218	Contract Sample No	DN3485/86
Report Date	09 August 2021	Core Reference	DN3485/86

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	05/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	07/08/2021
	Core Location	L1 - 167
	Drilled By	Not Stated
	Client Reference	**STR 454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.9
Maximum Length as received (mm)	211
Minimum Length as received (mm)	210
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	7 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	52.0
Average Length after end preparation (mm)	98.4
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2130
Failure Load **kN**	142.5

Measured Compressive Strength (N/mm ^{2})	18.5
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	18.5

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Template Version: 2.3

Laboratory Report	ARC/8219	Contract Sample No	DN3485/87
Report Date	09 August 2021	Core Reference	DN3485/87

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	05/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	07/08/2021
	Core Location	L1 - 170
	Drilled By	Not Stated
	Client Reference	**STR 454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.7
Maximum Length as received (mm)	140
Minimum Length as received (mm)	124
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	7 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	27.0
Average Length after end preparation (mm)	99.1
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2190
Failure Load **kN**	148.9

Measured Compressive Strength (N/mm ^{2})	19.5
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	19.5

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Template Version: 2.3

Laboratory Report	ARC/8220	Contract Sample No	DN3485/88
Report Date	09 August 2021	Core Reference	DN3485/88

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	04/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	07/08/2021
	Core Location	L1 - 174
	Drilled By	Not Stated
	Client Reference	**STR 454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99
Maximum Length as received (mm)	150
Minimum Length as received (mm)	125
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	7 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	14.0
Average Length after end preparation (mm)	99.0
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2280
Failure Load **kN**	189.2

Measured Compressive Strength (N/mm ^{2})	24.6
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	24.6

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8221	Contract Sample No	DN3485/89
Report Date	09 August 2021	Core Reference	DN3485/89

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	04/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	07/08/2021
	Core Location	L1 - 175
	Drilled By	Not Stated
	Client Reference	**STR 454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99
Maximum Length as received (mm)	159
Minimum Length as received (mm)	149
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	7 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	29.0
Average Length after end preparation (mm)	97.8
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2240
Failure Load **kN**	112.3

Measured Compressive Strength (N/mm ^{2})	14.6
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	14.5

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8222	Contract Sample No	DN3485/90
Report Date	09 August 2021	Core Reference	DN3485/90

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	04/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	07/08/2021
	Core Location	L1 - 176
	Drilled By	Not Stated
	Client Reference	**STR 454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99
Maximum Length as received (mm)	162
Minimum Length as received (mm)	158
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	7 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	33.0
Average Length after end preparation (mm)	100.9
Length/Diameter Ratio	1.02
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2220
Failure Load **kN**	183.8

Measured Compressive Strength (N/mm ^{2})	23.9
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	24.1

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8223	Contract Sample No	DN3485/91
Report Date	09 August 2021	Core Reference	DN3485/91

Construction Testing Solutions

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UKAS TESTING 4161

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Web: www.constructiontesting.co.uk

Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	04/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	07/08/2021
	Core Location	L1 - 181
	Drilled By	Not Stated
	Client Reference	**STR 454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99
Maximum Length as received (mm)	146
Minimum Length as received (mm)	123
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	27
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	7 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	13.0
Average Length after end preparation (mm)	98.7
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2260
Failure Load **kN**	204.7

Measured Compressive Strength (N/mm ^{2})	26.6
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	26.6

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

Opinions and interpretations not covered by the current scope of UKAS accreditation of this laboratory.

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8224	Contract Sample No	DN3485/92
Report Date	09 August 2021	Core Reference	DN3485/92

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	04/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	07/08/2021
	Core Location	L1 - 182
	Drilled By	Not Stated
	Client Reference	**STR 454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.9
Maximum Length as received (mm)	154
Minimum Length as received (mm)	124
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	30
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	7 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	22.0
Average Length after end preparation (mm)	100.0
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2320
Failure Load **kN**	126.2

Measured Compressive Strength (N/mm ^{2})	16.4
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	16.5

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8225	Contract Sample No	DN3485/93
Report Date	09 August 2021	Core Reference	DN3485/93

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	04/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	07/08/2021
	Core Location	L1 - 183
	Drilled By	Not Stated
	Client Reference	**STR 454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.9
Maximum Length as received (mm)	128
Minimum Length as received (mm)	114
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	7 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	14.0
Average Length after end preparation (mm)	98.8
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2290
Failure Load **kN**	140.3

Measured Compressive Strength (N/mm ^{2})	18.3
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	18.3

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8226	Contract Sample No	DN3485/94
Report Date	09 August 2021	Core Reference	DN3485/94

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	03/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	07/08/2021
	Core Location	L3 - 225
	Drilled By	Not Stated
	Client Reference	**STR 454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.9
Maximum Length as received (mm)	133
Minimum Length as received (mm)	116
Diameter of reinforcing bar in as received specimen (mm):	6
Distance from centre of steel bar to top of as received specimen (mm): if applicable	69
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	7 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	12.0
Average Length after end preparation (mm)	97.3
Length/Diameter Ratio	0.98
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2280
Failure Load **kN**	280.2

Measured Compressive Strength (N/mm ^{2})	36.5
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	36.3

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Template Version: 2.3

Laboratory Report	ARC/8313	Contract Sample No	DN3485/95
Report Date	12 August 2021	Core Reference	DN3485/95

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	08/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	11/08/2021
	Core Location	B1- 56
	Drilled By	Not Stated
	Client Reference	**STR 454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	161
Minimum Length as received (mm)	128
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	11 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	9.0
Average Length after end preparation (mm)	97.9
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2250
Failure Load **kN**	203.1

Measured Compressive Strength (N/mm ^{2})	26.3
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	26.2

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Template Version: 2.3

Laboratory Report	ARC/8314	Contract Sample No	DN3485/96
Report Date	12 August 2021	Core Reference	DN3485/96

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	08/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	11/08/2021
	Core Location	B1- 87
	Drilled By	Not Stated
	Client Reference	**STR 454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.3
Maximum Length as received (mm)	144
Minimum Length as received (mm)	124
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	11 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	3.0
Average Length after end preparation (mm)	96.1
Length/Diameter Ratio	0.97
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2260
Failure Load **kN**	252.2

Measured Compressive Strength (N/mm ^{2})	32.6
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	32.2

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8315	Contract Sample No	DN3485/97
Report Date	12 August 2021	Core Reference	DN3485/97

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	08/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	11/08/2021
	Core Location	B1- 91
	Drilled By	Not Stated
	Client Reference	**STR 454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.3
Maximum Length as received (mm)	145
Minimum Length as received (mm)	120
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	11 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	10.0
Average Length after end preparation (mm)	99.1
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2240
Failure Load **kN**	188.9

Measured Compressive Strength (N/mm ^{2})	24.4
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	24.4

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8316	Contract Sample No	DN3485/98
Report Date	12 August 2021	Core Reference	DN3485/98

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	09/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	11/08/2021
	Core Location	L1- 177
	Drilled By	Not Stated
	Client Reference	**STR 454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	125
Minimum Length as received (mm)	101
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	11 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	6.0
Average Length after end preparation (mm)	101.7
Length/Diameter Ratio	1.03
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2280
Failure Load **kN**	153.5

Measured Compressive Strength (N/mm ^{2})	19.9
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	20.1

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8317	Contract Sample No	DN3485/99
Report Date	12 August 2021	Core Reference	DN3485/99

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	09/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	11/08/2021
	Core Location	L1- 178
	Drilled By	Not Stated
	Client Reference	**STR 454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	115
Minimum Length as received (mm)	95
Diameter of reinforcing bar in as received specimen (mm):	6
Distance from centre of steel bar to top of as received specimen (mm): if applicable	51
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	11 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	5.0
Average Length after end preparation (mm)	100.7
Length/Diameter Ratio	1.02
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2310
Failure Load **kN**	81.9

Measured Compressive Strength (N/mm ^{2})	10.6
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	10.7

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Template Version: 2.3

Laboratory Report	ARC/8351	Contract Sample No	DN3485/100
Report Date	16 August 2021	Core Reference	DN3485/100

Construction Testing Solutions

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UKAS TESTING 4161

Tel: (01302) 352652
Email: enquiries@constructiontesting.co.uk
Web: www.constructiontesting.co.uk

Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	11/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/08/2021
	Core Location	B1-70
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	73.6
Maximum Length as received (mm)	143
Minimum Length as received (mm)	109
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	48.0
Average Length after end preparation (mm)	73.4
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2230**
Failure Load **kN**	**82.8**

Measured Compressive Strength (N/mm^2)	**19.5**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**19.5**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

Opinions and interpretations not covered by the current scope of UKAS accreditation of this laboratory.

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8352	Contract Sample No	DN3485/101
Report Date	16 August 2021	Core Reference	DN3485/101

Construction Testing Solutions

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	11/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/08/2021
	Core Location	B1-64
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	133
Minimum Length as received (mm)	122
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	10.0
Average Length after end preparation (mm)	99.1
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2220**
Failure Load **kN**	**194.4**

Measured Compressive Strength (N/mm^2)	**25.2**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**25.2**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8353	Contract Sample No	DN3485/102
Report Date	16 August 2021	Core Reference	DN3485/102

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	11/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/08/2021
	Core Location	B1-63
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.4
Maximum Length as received (mm)	149
Minimum Length as received (mm)	132
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Some Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	1

Prepared Specimen Details	
Date of Test	14 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	35.0
Average Length after end preparation (mm)	99.7
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2010**
Failure Load **kN**	**196**

Measured Compressive Strength (N/mm^2)	**25.3**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**25.3**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8354	Contract Sample No	DN3485/103
Report Date	16 August 2021	Core Reference	DN3485/103

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	11/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/08/2021
	Core Location	B1-79
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	181
Minimum Length as received (mm)	178
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	22
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	42.0
Average Length after end preparation (mm)	99.2
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2200**
Failure Load **kN**	**194.6**

Measured Compressive Strength (N/mm^2)	**25.2**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**25.2**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8355	Contract Sample No	DN3485/104
Report Date	16 August 2021	Core Reference	DN3485/104

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	11/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/08/2021
	Core Location	B1-66
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	151
Minimum Length as received (mm)	125
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Some Voids
Estimated Maximum Aggregate size (mm)	30
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	2

Prepared Specimen Details	
Date of Test	14 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	3.0
Average Length after end preparation (mm)	98.5
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2200**
Failure Load **kN**	**188**

Measured Compressive Strength (N/mm^2)	**24.3**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**24.2**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8356	Contract Sample No	DN3485/105
Report Date	16 August 2021	Core Reference	DN3485/105

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	11/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/08/2021
	Core Location	B1-55
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.4
Maximum Length as received (mm)	142
Minimum Length as received (mm)	108
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	5.0
Average Length after end preparation (mm)	99.2
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2240**
Failure Load **kN**	**197.1**

Measured Compressive Strength (N/mm^2)	**25.4**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**25.4**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8357	Contract Sample No	DN3485/106
Report Date	16 August 2021	Core Reference	DN3485/106

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	11/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/08/2021
	Core Location	B1-78
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.3
Maximum Length as received (mm)	145
Minimum Length as received (mm)	139
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	18.0
Average Length after end preparation (mm)	98.3
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2240**
Failure Load **kN**	**217.4**

Measured Compressive Strength (N/mm^2)	**28.1**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**28**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8358	Contract Sample No	DN3485/107
Report Date	16 August 2021	Core Reference	DN3485/107

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	12/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/08/2021
	Core Location	B1-89
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.3
Maximum Length as received (mm)	111
Minimum Length as received (mm)	104
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Some Voids
Estimated Maximum Aggregate size (mm)	24
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	2

Prepared Specimen Details	
Date of Test	14 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	6.0
Average Length after end preparation (mm)	95.9
Length/Diameter Ratio	0.98
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2340**
Failure Load **kN**	**111.7**

Measured Compressive Strength (N/mm^2)	**14.7**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**14.6**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8359	Contract Sample No	DN3485/108
Report Date	16 August 2021	Core Reference	DN3485/108

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	12/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/08/2021
	Core Location	B1-92
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	98.6
Maximum Length as received (mm)	168
Minimum Length as received (mm)	144
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	6.0
Average Length after end preparation (mm)	99.2
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2270**
Failure Load **kN**	**155.5**

Measured Compressive Strength (N/mm^2)	**20.4**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**20.4**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8360	Contract Sample No	DN3485/109
Report Date	16 August 2021	Core Reference	DN3485/109

Construction Testing Solutions

Bootham Lane Industrial Estate
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DN7 4JU

UKAS TESTING 4161

Tel: (01302) 352652
Email: enquiries@constructiontesting.co.uk
Web: www.constructiontesting.co.uk

Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	12/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/08/2021
	Core Location	B1-81
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.1
Maximum Length as received (mm)	156
Minimum Length as received (mm)	147
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	47
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	24.0
Average Length after end preparation (mm)	100.4
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2240**
Failure Load **kN**	**139.7**

Measured Compressive Strength (N/mm^2)	**18.1**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**18.2**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

Opinions and interpretations not covered by the current scope of UKAS accreditation of this laboratory.

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Authorised Signatory

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8361	Contract Sample No	DN3485/110
Report Date	16 August 2021	Core Reference	DN3485/110

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	12/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/08/2021
	Core Location	B1-85
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99
Maximum Length as received (mm)	141
Minimum Length as received (mm)	132
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	18.0
Average Length after end preparation (mm)	99.1
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2250**
Failure Load **kN**	**165.8**

Measured Compressive Strength (N/mm^2)	**21.5**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**21.5**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8362	Contract Sample No	DN3485/111
Report Date	16 August 2021	Core Reference	DN3485/111

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	12/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/08/2021
	Core Location	B1-61
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.1
Maximum Length as received (mm)	162
Minimum Length as received (mm)	157
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	30.0
Average Length after end preparation (mm)	100.0
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2200**
Failure Load **kN**	**140.2**

Measured Compressive Strength (N/mm^2)	**18.2**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**18.3**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8363	Contract Sample No	DN3485/112
Report Date	16 August 2021	Core Reference	DN3485/112

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	12/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/08/2021
	Core Location	B1-90
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.1
Maximum Length as received (mm)	149
Minimum Length as received (mm)	141
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	24
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	14 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	23.0
Average Length after end preparation (mm)	100.0
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2250**
Failure Load **kN**	**121.5**

Measured Compressive Strength (N/mm^2)	**15.8**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**15.9**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8364	Contract Sample No	DN3485/113
Report Date	16 August 2021	Core Reference	DN3485/113

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	12/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	14/08/2021
	Core Location	B1-86
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.1
Maximum Length as received (mm)	142
Minimum Length as received (mm)	121
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	5

Prepared Specimen Details	
Date of Test	14 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	19.0
Average Length after end preparation (mm)	98.8
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2250**
Failure Load **kN**	**91.9**

Measured Compressive Strength (N/mm^2)	**11.9**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**11.9**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8428	Contract Sample No	DN3485/114
Report Date	17 August 2021	Core Reference	DN3485/114

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	13/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	17/08/2021
	Core Location	B1 58
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	139
Minimum Length as received (mm)	125
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	17 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	20.0
Average Length after end preparation (mm)	96.7
Length/Diameter Ratio	0.97
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2190**
Failure Load **kN**	**115**

Measured Compressive Strength (N/mm^2)	**14.9**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**14.7**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8429	Contract Sample No	DN3485/115
Report Date	17 August 2021	Core Reference	DN3485/115

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	13/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	17/08/2021
	Core Location	B1 60
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	162
Minimum Length as received (mm)	138
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Some Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	1

Prepared Specimen Details	
Date of Test	17 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	19.0
Average Length after end preparation (mm)	98.9
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2230
Failure Load **kN**	209.4

Measured Compressive Strength (N/mm^2)	27.1
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	27.1

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8430	Contract Sample No	DN3485/116
Report Date	17 August 2021	Core Reference	DN3485/116

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	13/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	17/08/2021
	Core Location	B1 71
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	160
Minimum Length as received (mm)	147
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	17 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	26.0
Average Length after end preparation (mm)	99.3
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	**2180**
Failure Load **kN**	**146.5**

Measured Compressive Strength (N/mm^2)	**19.0**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**19.0**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8431	Contract Sample No	DN3485/117
Report Date	17 August 2021	Core Reference	DN3485/117

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	13/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	17/08/2021
	Core Location	B1 72
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.1
Maximum Length as received (mm)	221
Minimum Length as received (mm)	183
Diameter of reinforcing bar in as received specimen (mm):	18
Distance from centre of steel bar to top of as received specimen (mm): if applicable	122
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	17 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	39.0
Average Length after end preparation (mm)	99.9
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	18
Distance from centre of steel bar to top of prepared specimen (mm)	52

Apparent Density **(kg/m^3)**	**2360**
Failure Load **kN**	**128.5**

Measured Compressive Strength (N/mm^2)	**16.7**
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	**18.9**

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8448	Contract Sample No	DN3485/118
Report Date	19 August 2021	Core Reference	DN3485/118

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	16/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	19/08/2021
	Core Location	B1L - 29
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	151
Minimum Length as received (mm)	145
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	19 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	18.0
Average Length after end preparation (mm)	101.1
Length/Diameter Ratio	1.02
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2220
Failure Load **kN**	169.4

Measured Compressive Strength (N/mm^2)	21.9
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	22.1

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

Opinions and interpretations not covered by the current scope of UKAS accreditation of this laboratory.

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8449	Contract Sample No	DN3485/119
Report Date	19 August 2021	Core Reference	DN3485/119

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	16/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	19/08/2021
	Core Location	B1L - 30
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.1
Maximum Length as received (mm)	138
Minimum Length as received (mm)	124
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	19 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	20.0
Average Length after end preparation (mm)	98.7
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2170
Failure Load **kN**	138.5

Measured Compressive Strength (N/mm^2)	18.0
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	18.0

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8450	Contract Sample No	DN3485/120
Report Date	19 August 2021	Core Reference	DN3485/120

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	16/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	19/08/2021
	Core Location	B1L - 36
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	139
Minimum Length as received (mm)	131
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	19 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	11.0
Average Length after end preparation (mm)	98.7
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2200
Failure Load **kN**	154.3

Measured Compressive Strength (N/mm^2)	20.0
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	20.0

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8451	Contract Sample No	DN3485/121
Report Date	19 August 2021	Core Reference	DN3485/121

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	17/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	19/08/2021
	Core Location	B1 - 57
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.3
Maximum Length as received (mm)	127
Minimum Length as received (mm)	121
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	19 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	7.0
Average Length after end preparation (mm)	100.7
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2240
Failure Load **kN**	220.2

Measured Compressive Strength (N/mm^2)	28.4
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	28.6

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Template Version: 2.3

Laboratory Report	ARC/8452	Contract Sample No	DN3485/122
Report Date	19 August 2021	Core Reference	DN3485/122

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	17/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	19/08/2021
	Core Location	B1 - 77
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	141
Minimum Length as received (mm)	112
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	19 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	10.0
Average Length after end preparation (mm)	98.4
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2240
Failure Load **kN**	190.6

Measured Compressive Strength (N/mm^2)	24.7
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	24.6

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8453	Contract Sample No	DN3485/123
Report Date	19 August 2021	Core Reference	DN3485/123

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	17/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	19/08/2021
	Core Location	B1L - 51
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	160
Minimum Length as received (mm)	151
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	19 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	21.0
Average Length after end preparation (mm)	99.9
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2350
Failure Load **kN**	134.3

Measured Compressive Strength (N/mm^2)	17.4
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	17.4

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8454	Contract Sample No	DN3485/124
Report Date	19 August 2021	Core Reference	DN3485/124

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	17/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	19/08/2021
	Core Location	B1L - 54
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	142
Minimum Length as received (mm)	136
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	27
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	19 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	30.0
Average Length after end preparation (mm)	100.2
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2190
Failure Load **kN**	114.9

Measured Compressive Strength (N/mm^2)	14.9
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	15.0

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8455	Contract Sample No	DN3485/125
Report Date	19 August 2021	Core Reference	DN3485/125

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	17/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	19/08/2021
	Core Location	B1L - 35
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	167
Minimum Length as received (mm)	140
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	19 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	18.0
Average Length after end preparation (mm)	101.1
Length/Diameter Ratio	1.02
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2250
Failure Load **kN**	147.4

Measured Compressive Strength (N/mm^2)	19.1
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	19.2

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8541	Contract Sample No	DN3485/126
Report Date	25 August 2021	Core Reference	DN3485/126

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	18/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	25/08/2021
	Core Location	L5-256
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.4
Maximum Length as received (mm)	145
Minimum Length as received (mm)	128
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	25 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	9.0
Average Length after end preparation (mm)	98.1
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2250
Failure Load **kN**	161.6

Measured Compressive Strength (N/mm^2)	20.8
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	20.7

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8542	Contract Sample No	DN3485/127
Report Date	25 August 2021	Core Reference	DN3485/127

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	18/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	25/08/2021
	Core Location	L5-259
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.3
Maximum Length as received (mm)	162
Minimum Length as received (mm)	155
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	25 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	29.0
Average Length after end preparation (mm)	98.8
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2210
Failure Load **kN**	156.2

Measured Compressive Strength (N/mm^2)	20.2
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	20.2

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Author [redacted]

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**** END OF REPORT ****

Laboratory Report	ARC/8543	Contract Sample No	DN3485/128
Report Date	25 August 2021	Core Reference	DN3485/128

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	18/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	25/08/2021
	Core Location	L5-263
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.4
Maximum Length as received (mm)	140
Minimum Length as received (mm)	119
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	24
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	25 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	18.0
Average Length after end preparation (mm)	97.9
Length/Diameter Ratio	0.98
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2190
Failure Load **kN**	130.6

Measured Compressive Strength (N/mm^2)	16.8
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	16.7

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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P Nodder - Technical Director

Notes/Comments

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Laboratory Report	ARC/8544	Contract Sample No	DN3485/129
Report Date	25 August 2021	Core Reference	DN3485/129

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	18/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	25/08/2021
	Core Location	L5-264
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.3
Maximum Length as received (mm)	151
Minimum Length as received (mm)	147
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	25 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	21.0
Average Length after end preparation (mm)	100.5
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2220
Failure Load **kN**	198.6

Measured Compressive Strength (N/mm^2)	25.6
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	25.7

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Laboratory Report	ARC/8545	Contract Sample No	DN3485/130
Report Date	25 August 2021	Core Reference	DN3485/130

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	19/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	25/08/2021
	Core Location	B2-9
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.5
Maximum Length as received (mm)	218
Minimum Length as received (mm)	210
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	25 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	57.0
Average Length after end preparation (mm)	99.2
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2300
Failure Load **kN**	284.4

Measured Compressive Strength (N/mm^2)	36.6
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	36.6

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Author [redacted]

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[redacted] Nodder - Technical Director

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Laboratory Report	ARC/8546	Contract Sample No	DN3485/131
Report Date	25 August 2021	Core Reference	DN3485/131

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	19/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	25/08/2021
	Core Location	B2-10
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.5
Maximum Length as received (mm)	216
Minimum Length as received (mm)	213
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Some Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	1

Prepared Specimen Details	
Date of Test	25 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	54.0
Average Length after end preparation (mm)	99.8
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2320
Failure Load **kN**	309.5

Measured Compressive Strength (N/mm^2)	39.8
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	39.8

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Laboratory Report	ARC/8547	Contract Sample No	DN3485/132
Report Date	25 August 2021	Core Reference	DN3485/132

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	19/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	25/08/2021
	Core Location	B2-13
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.4
Maximum Length as received (mm)	195
Minimum Length as received (mm)	187
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Some Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	1

Prepared Specimen Details	
Date of Test	25 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	48.0
Average Length after end preparation (mm)	100.9
Length/Diameter Ratio	1.02
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2320
Failure Load **kN**	321.1

Measured Compressive Strength (N/mm^2)	41.4
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	41.6

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8548	Contract Sample No	DN3485/133
Report Date	25 August 2021	Core Reference	DN3485/133

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	19/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	25/08/2021
	Core Location	B2-14
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.5
Maximum Length as received (mm)	109
Minimum Length as received (mm)	98
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	25 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	6.0
Average Length after end preparation (mm)	99.2
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2220
Failure Load **kN**	216.2

Measured Compressive Strength (N/mm^2)	27.8
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	27.8

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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P Nodder - Technical Director

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Template Version: 2.3

Laboratory Report	ARC/8549	Contract Sample No	DN3485/134
Report Date	25 August 2021	Core Reference	DN3485/134

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	19/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	25/08/2021
	Core Location	B2-15
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.4
Maximum Length as received (mm)	100
Minimum Length as received (mm)	99
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	25 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	2.0
Average Length after end preparation (mm)	100.2
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2330
Failure Load **kN**	401.6

Measured Compressive Strength (N/mm^2)	51.8
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	52.0

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

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Template Version: 2.3

Laboratory Report	ARC/8550	Contract Sample No	DN3485/135
Report Date	25 August 2021	Core Reference	DN3485/135

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	19/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	25/08/2021
	Core Location	B2-16
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.4
Maximum Length as received (mm)	160
Minimum Length as received (mm)	153
Diameter of reinforcing bar in as received specimen (mm):	28
Distance from centre of steel bar to top of as received specimen (mm): if applicable	0
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	25 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	36.0
Average Length after end preparation (mm)	100.7
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2370
Failure Load **kN**	624.6

Measured Compressive Strength (N/mm^2)	80.5
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	80.9

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

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Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8551	Contract Sample No	DN3485/136
Report Date	25 August 2021	Core Reference	DN3485/136

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Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	19/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	25/08/2021
	Core Location	B2-20
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.7
Maximum Length as received (mm)	172
Minimum Length as received (mm)	142
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	25 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	28.0
Average Length after end preparation (mm)	99.8
Length/Diameter Ratio	1
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2350
Failure Load **kN**	469.1

Measured Compressive Strength (N/mm^2)	60.1
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	60.1

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

Opinions and interpretations not covered by the current scope of UKAS accreditation of this laboratory.

This report may not be reproduced other than in full without the prior written approval of the issuing laboratory

Results relate only to the samples(s) as tested.

The laboratory does not apply a conformity statement to test reports as standard, unless specifically requested by the customer

Authorised Signatory

[redacted]

P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8552	Contract Sample No	DN3485/137
Report Date	25 August 2021	Core Reference	DN3485/137

Construction Testing Solutions

Bootham Lane Industrial Estate
Dunscroft
Doncaster
DN7 4JU

UKAS TESTING 4161

Tel: (01302) 352652
Email: enquiries@constructiontesting.co.uk
Web: www.constructiontesting.co.uk

Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	19/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	25/08/2021
	Core Location	B2-22
	Drilled By	Not Stated
	Client Reference	**STR454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.7
Maximum Length as received (mm)	185
Minimum Length as received (mm)	172
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	20
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	25 August 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	35.0
Average Length after end preparation (mm)	99.2
Length/Diameter Ratio	0.99
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2280
Failure Load **kN**	424.5

Measured Compressive Strength (N/mm^2)	54.4
Corrected In-Situ Cube Strength (N/mm^2)* Not covered by current scope of UKAS accreditation	54.3

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

Opinions and interpretations not covered by the current scope of UKAS accreditation of this laboratory.

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Results relate only to the samples(s) as tested.

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Authorised Signatory

[redacted]

P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

Laboratory Report	ARC/8665	Contract Sample No	DN3485/138
Report Date	03 September 2021	Core Reference	DN3485/138

Construction Testing Solutions

Bootham Lane Industrial Estate
Dunscroft
Doncaster
DN7 4JU

UKAS TESTING 4161

Tel: (01302) 352652
Email: enquiries@constructiontesting.co.uk
Web: www.constructiontesting.co.uk

Bowmer & Kirkland	Material Specification	**Not Stated**
1st Floor, Altitude	Date Cast	**Not Stated**
Atlas Business Park	Date Drilled	27/08/2021
Manchester	Sampling Plan	Client Specification
M22 5PR	Date Completed	03/09/2021
	Core Location	B1L - 47
	Drilled By	Not Stated
	Client Reference	**STR 454**

Site:
CIS Tower, Manchester

TEST REPORT

Compressive Strength and Examination of a Cored Concrete Specimen Tested in Accordance with BS EN 12504-1: 2019

Cored Specimen Examination	
Average Diameter (mm)	99.2
Maximum Length as received (mm)	175
Minimum Length as received (mm)	173
Diameter of reinforcing bar in as received specimen (mm):	N/A
Distance from centre of steel bar to top of as received specimen (mm): if applicable	N/A
Appearance of Concrete	Evenly Distributed Aggregate, Minimal Voids
Estimated Maximum Aggregate size (mm)	25
Distribution of materials	Uniform
Presence of cracks	None
Excess Voidage (%)	0

Prepared Specimen Details	
Date of Test	3 September 2021
Age of Core at Test day (Days)	Not Stated
Length cut from top of as received core (mm)	36.0
Average Length after end preparation (mm)	99.8
Length/Diameter Ratio	1.01
Method of end preparation	Sulphur Capping
Soaking Time before test (days)	N/A
Condition of specimen at time of test:	As received
Storage Condition(s)	Air
Failure Mode	Satisfactory
Diameter of reinforcing bar in prepared specimen (mm)	N/A
Distance from centre of steel bar to top of prepared specimen (mm)	N/A

Apparent Density **(kg/m^3)**	2300
Failure Load **kN**	298

Measured Compressive Strength (N/mm ^{2})	38.6
Corrected In-Situ Cube Strength (N/mm ^{2})* Not covered by current scope of UKAS accreditation	38.7

Volume determined by linear measurement

Density reported to nearest 10kg/m^3 with sample in 'As received' condition

Strength reported to nearest 0.1 N/mm^2

*Corrected In-Situ cube strength determined in accordance with Annex NA.3 of BS EN 12504-1: 2009 (Withdrawn)

If an estimate of the **characteristic** compressive strength of standard test specimens as used in the original structural design is needed, further corrections not covered in National Annex NA have to be applied, and consultation with BS EN 13791 and BS 6089 is needed

Opinions and interpretations not covered by the current scope of UKAS accreditation of this laboratory.

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Results relate only to the samples(s) as tested.

The laboratory does not apply a conformity statement to test reports as standard, unless specifically requested by the customer

Authorised Signatory

[redacted]

P Nodder - Technical Director

Notes/Comments

Template Version: 2.3

4.3 Tensile strength test certificates

ZURICH

Mechanical Test Certificate

Manufacturers Name: Construction Testing Solutions Ltd
Address: Bootham Lane Industrial Estate
Bootham Lane
Dunscroft
Doncaster
DN74JU

Specification(s):
Steel sample for tensile test.

Date of Receipt: 24/08/2021
Reference No. ZE/ME/LC/002407
Project Reference: LS21-1183
Client Reference: CTS001176
Sample Reference: STR 454, COC794
Sample Ref: LS - 259

Page No. 1 of 1

Tensile Test: BS EN ISO 6892-1:2019 (A224)

Temperature (°C): Room Temperature

	Size (mm)	CSA (mm^2)	Breaking Load (kN)	UTS (N/mm^2)	EL on $5.65\sqrt{So}$(%)	RP 0.2% (N/mm^2)	RT 0.5% (N/mm^2)	RP 1.0%	R in A (%)
Requirements									
Results	10.04	79.17	35.73	451	36	356	345		61

Impact Test: Not Required
Temperature (°C):
Size (mm):

	Results (J)			
Requirements				
Sample	1	2	3	Average (J)
Results				

Hardness Test: Not Required

	Result
Requirements	
Results	

Additional Testing: Not Required

End of Test Report

Remarks

Tested By: Louis Collins Position: Senior Technician Date: 25/08/2021

Authorised By: Louis Collins Position: Senior Technician Date: 25/08/2021

Signature: [redacted]
L Collins
LAB 16
SAFed/CEOC Member Company
Zurich Laboratory Services
Unit 3 Steel Park Trading Estate, Wednesfield
WV11 3BF
Tel: 0800 026 1504

UKAS TESTING
0854

Testing requirements have been carried out in accordance with client instructions and the quality requirements of Zurich Laboratory Services.
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ZURICH

Mechanical Test Certificate

Manufacturers Name: Construction Testing Solutions Ltd
Address: Bootham Lane Industrial Estate
Bootham Lane
Dunscroft
Doncaster
DN74JU

Specification(s):
Steel sample for tensile test

Date of Receipt: 24/08/2021
Reference No. ZE/ME/LC/002406
Project Reference: LS21-1183
Client Reference: CTS001176
Sample Reference: STR 454, COC794
Sample Ref: B2 - 16

Page No. 1 of 1

Tensile Test: BS EN ISO 6892-1:2019 (A224)

Temperature (°C): Room Temperature

	Size (mm)	CSA (mm^2)	Breaking Load (kN)	UTS (N/mm^2)	EL on $5.65\sqrt{So}$(%)	RP 0.2% (N/mm^2)	RT 0.5% (N/mm^2)	RP 1.0%	R in A (%)
Requirements									
Results	10.05	79.33	38.38	484	31	329	326		53

Impact Test: Not Required
Temperature (°C):
Size (mm):

	Results (J)			
Requirements				
Sample	1	2	3	Average (J)
Results				

Hardness Test: Not Required

	Result
Requirements	
Results	

Additional Testing: Not Required

End of Test Report

Remarks

Tested By: Louis Collins Position: Senior Technician Date: 25/08/2021

Authorised By: Louis Collins Position: Senior Technician Date: 25/08/2021

Signature: [redacted]

L Collins
LAB 16
SAFed/CEOC Member Company

Zurich Laboratory Services
Unit 3 Steel Park Trading Estate, Wednesfield
WV11 3BF
Tel: 0800 026 1504

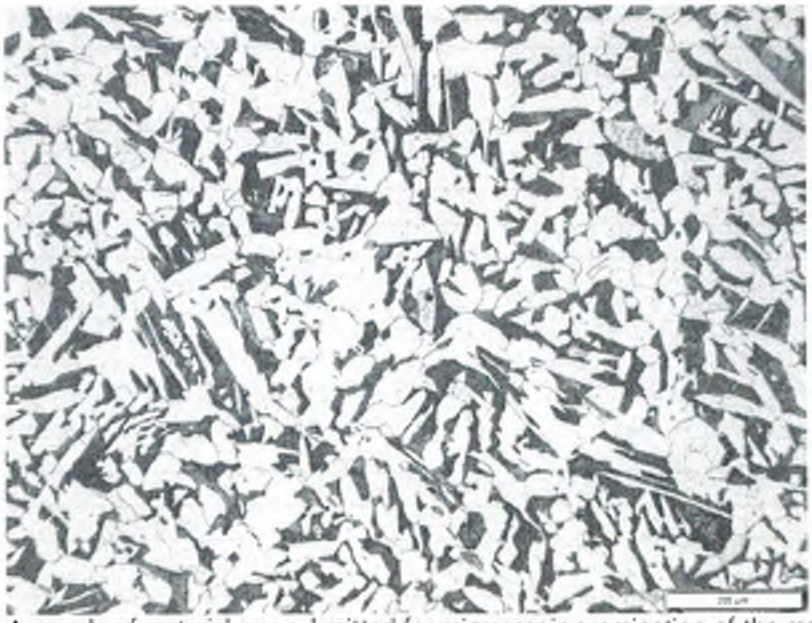
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Micro Photograph Report Addendum

Manufacturers Name:	Construction Testing Solutions Ltd	Date of Receipt:	02/09/2021
Address:	Bootham Lane Industrial Estate Bootham Lane Dunscroft Doncaster DN74JU	Reference:	ZE/MI/LC/000135
		Project Reference:	LS21-1320
		Client Reference:	CTS001367

Test Reference:	STR454, COC802, Level 8 C1
Test Method:	
Test Piece Description:	Steel sample
Material:	
Etchant:	4% Nital
Location:	Longitudinal section, mid-radial position
Magnification:	X100



A sample of material was submitted for microscopic examination of the material structure, and was polished to a one micron finish and examined under a light microscope at 100X magnification.

Microstructural examination revealed that the material was a low carbon steel, with ferrite / pearlite microstructure, typical of a hot rolled steel. This is indicative of a medium strength material which would be easily weldable.

Tested By:	Louis Collins	Position:	Senior Technician	Date:	09/09/2021
Authorised By:	Louis Collins	Position:	Senior Technician	Date:	09/09/2021

Signature: [redacted]

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Testing requirements have been carried out in accordance with client instructions and the quality requirements of Zurich Laboratory Services.

ZURICH

Chemical and Mechanical Test Certificate

Manufacturers Name:	Construction Testing Solutions Ltd	Date of Receipt:	02/09/2021
Address:	Bootham Lane Industrial Estate Bootham Lane Dunscroft Doncaster DN74JU	Reference No.	ZE/CM/LC/000923
		Project Reference:	LS21-1320
		Client Reference:	CTS001367
		Sample Reference:	STR 454, COC 802 Level 8 C1
Specification(s):	Ø25.3 x 50mm long steel sample for chemical analysis & hardness test.	Page No.	1 of 1

Chemical Analysis:
Tested in accordance with documented in house procedure: QMS/SOP/LS/20

Element %	C	Si	Mn	P	S	Cr	Mo	Ni	Al	Cu	Co	Ti
Requirements												
Results	.25	.079	.79	.028	.037	.049	.013	.056	.001	.073		<.001

Element %	V	Pb	Nb	As	N	Fe						
Requirements												
Results	<.001					REM						

Tensile Test: Not Required

Temperature (°C):

	Size (mm)	CSA (mm^2)	Breaking Load (kN)	UTS	EL on (%)	RP 0.2%	RT 0.5%	RP 1.0%	R in A (%)
Requirements									
Results									

Impact Test: Not Required

Temperature (°C):

Size (mm):

	Results (J)			
Requirements				
Sample	1	2	3	Average (J)
Results				

Hardness Test: Vickers - BS EN ISO 6507-1:2018

	Result
Requirements	
Results	135 HV10

Additional Testing: Required

*135 HV10 is indicative of a tensile strength of approximately 430 N/mm² (BS EN ISO 18265:2013). Note - opinions and interpretations are outside of the laboratory UKAS scope of approval.

End of Test Report

Tested By:	Louis Collins	Position:	Senior Technician	Date:	09/09/2021
Authorised By:	Louis Collins	Position:	Senior Technician	Date:	09/09/2021

Signature: [redacted]
L Collins

Zurich Laboratory Services
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WV11 3BF
Tel: 0800 026 1504
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Micro Photograph Report Addendum

Manufacturers Name:	Construction Testing Solutions Ltd	Date of Receipt:	07/09/2021
Address:	Bootham Lane Industrial Estate Bootham Lane Dunscroft Doncaster DN74JU	Reference:	ZE/MI/LC/000136
		Project Reference:	LS21-1320
		Client Reference:	CTS001451

Test Reference:	STR454, COC810, Level 8 Beam 3
Test Method:	
Test Piece Description:	Steel sample
Material:	
Etchant:	4% Nital
Location:	Longitudinal section, mid-radial position
Magnification:	X100



A sample of material was submitted for microscopic examination of the material structure, and was polished to a one micron finish and examined under a light microscope at 100X magnification.

Microstructural examination revealed that the material was a low carbon mild steel, with a predominantly ferriitic and pearlite microstructure, . This is indicative of a low strength material which would be easily weldable.

Tested By:	Louis Collins	Position:	Senior Technician	Date:	10/09/2021
Authorised By:	Louis Collins	Position:	Senior Technician	Date:	10/09/2021

Signature: [redacted]
L Collins
LAB 16
SAFed/CEOC

Zurich Laboratory Services
Unit 3 Steel Park Trading Estate, Wednesfield
WV11 3BF
Tel: 0800 026 1504
Member Company

UKAS TESTING
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ZURICH

Chemical and Mechanical Test Certificate

Manufacturers Name:	Construction Testing Solutions Ltd	Date of Receipt:	07/09/2021
Address:	Bootham Lane Industrial Estate Bootham Lane Dunscroft Doncaster DN74JU	Reference No.	ZE/CM/LC/000924
		Project Reference:	LS21-1320
		Client Reference:	CTS001451
		Sample Reference:	STR454, COC810 Level 8, Beam 3
Specification(s):	Steel sample for chemical analysis and hardness test.	Page No.	1 of 1

Chemical Analysis:
Tested in accordance with documented in house procedure: QMS/SOP/LS/20

Element %	C	Si	Mn	P	S	Cr	Mo	Ni	Al	Cu	Co	Ti
Requirements												
Results	.19	.078	.56	.017	.038	.085	.012	.056	<.001	.069		<.001

Element %	V	Pb	Nb	As	N	Fe						
Requirements												
Results	<.001					REM						

Tensile Test: Not Required

Temperature (°C):

	Size (mm)	CSA (mm^2)	Breaking Load (kN)	UTS	EL on (%)	RP 0.2%	RT 0.5%	RP 1.0%	R in A (%)
Requirements									
Results									

Impact Test: Not Required

Temperature (°C):

Size (mm):

	Results (J)			
Requirements				
Sample	1	2	3	Average (J)
Results				

Hardness Test: Vickers - BS EN ISO 6507-1:2018

	Result
Requirements	
Results	115 HV10

Additional Testing: Required

*115 HV10 is indicative of a tensile strength of approximately 370 N/mm² (BS EN ISO 18265:2013). Note - opinions and interpretations are outside of the laboratory UKAS scope of approval.

End of Test Report

Tested By:	Louis Collins	Position:	Senior Technician	Date:	10/09/2021
Authorised By:	Louis Collins	Position:	Senior Technician	Date:	10/09/2021

Signature: [redacted]

Zurich Laboratory Services
Unit 3 Steel Park Trading
Estate, Wednesfield
WV11 3BF
ZURICH LAB 16 Tel: 0800 026 1504
SAFed/CEOC Member Company

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ZURICH

Mechanical Test Certificate

Manufacturers Name: Construction Testing Solutions Ltd
Address: Bootham Lane Industrial Estate
Bootham Lane
Dunscroft
Doncaster
DN74JU

Specification(s):
Steel sample for tensile test

Date of Receipt: 02/08/2021
Reference No. ZE/ME/LC/002340
Project Reference: LS21-1183
Client Reference: CTS000690
Sample Reference: Project : STR454
COC738
Location 117 - Level 0
Page No. 1 of 1

Tensile Test: BS EN ISO 6892-1:2019 (A224)

Temperature (°C): Room Temperature

	Size (mm)	CSA (mm^2)	Breaking Load (kN)	UTS (N/mm^2)	EL on $5.65\sqrt{So}$ (%)	RP 0.2% (N/mm^2)	RT 0.5% (N/mm^2)	RP 1.0%	R in A (%)
Requirements									
Results	10.07	79.64	34.62	435	36	266	271		65

Impact Test: Not Required
Temperature (°C):
Size (mm):

	Results (J)			
Requirements				
Sample	1	2	3	Average (J)
Results				

Hardness Test: Not Required

	Result
Requirements	
Results	

Additional Testing: Not Required

End of Test Report

Remarks
Test results only.

Tested By: Louis Collins Position: Senior Technician Date: 02/08/2021

Authorised By: Louis Collins Position: Senior Technician Date: 02/08/2021

Signature: [redacted]

Zurich Laboratory Services
Unit 3 Steel Park Trading Estate, Wednesfield
WV11 3BF
ZURICH LAB 16 Tel: 0800 026 1504
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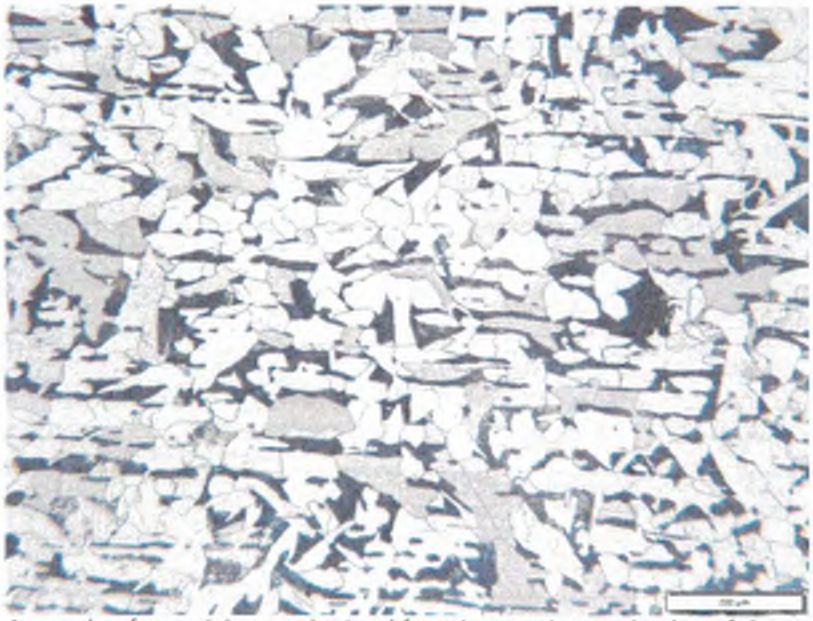
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ZURICH

Micro Photograph Report Addendum

Manufacturers Name:	Construction Testing Solutions Ltd	Date of Receipt:	12/08/2021
Address:	Bootham Lane Industrial Estate Bootham Lane Dunscroft Doncaster DN74JU	Reference:	ZE/MI/LC/000131
		Project Reference:	LS21-1183
		Client Reference:	CTS000927

Test Reference:	STR 454, COC 765. Location 169, Level 1
Test Method:	
Test Piece Description:	55mm steel
Material:	
Etchant:	4% Nital
Location:	Longiudinal section through test piece (Mid radial position)
Magnification:	X100



A sample of material was submitted for microscopic examination of the material structure, and was polished to a one micron finish and examined under a light microscope at 100X magnification.

Microstructural examination revealed that the material was a low carbon steel, with ferrite / pearlite microstructure, typical of a hot rolled steel. This is indicative of a low strength material which would be easily weldable.

Tested By:	Louis Collins	Position:	Senior Technician	Date:	23/08/2021
Authorised By:	Louis Collins	Position:	Senior Technician	Date:	23/08/2021

Signature: [redacted]

[redacted] urich Laboratory Services
Unit 3 Steel Park Trading
Estate, Wednesfield
WV11 3BF
ZURICH LAB 16 Tel: 0800 026 1504
SAFed/CEOC Member Company

UKAS TESTING
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Testing requirements have been carried out in accordance with client instructions and the quality requirements of Zurich Laboratory Services

ZURICH

Chemical and Mechanical Test Certificate

Manufacturers Name:	Construction Testing Solutions Ltd	Date of Receipt:	12/08/2021
Address:	Bootham Lane Industrial Estate Bootham Lane Dunscroft Doncaster DN74JU	Reference No.	ZE/CM/LC/000906
		Project Reference:	LS21-1183
		Client Reference:	CTS000927
		Sample Reference:	STR 454, COC 765 Location 169, Level 1
Specification(s):	Ø25.3 x 50mm long steel sample for chemical & hardness test.	Page No.	1 of 1

Chemical Analysis:
Tested in accordance with documented in house procedure: QMS/SOP/LS/20

Element %	C	Si	Mn	P	S	Cr	Mo	Ni	Al	Cu	Co	Ti
Requirements												
Results	.24	.30	1.59	.014	.036	.16	.046	.15	.032	.35		<.001

Element %	V	Pb	Nb	As	N	Fe						
Requirements												
Results	<.001					REM						

Tensile Test: Not Required

Temperature (°C): Room Temperature

	Size (mm)	CSA (mm^2)	Breaking Load (kN)	UTS	EL on (%)	RP 0.2%	RT 0.5%	RP 1.0%	R in A (%)
Requirements									
Results									

Impact Test: Not Required

Temperature (°C):

Size (mm):

	Results (J)			
Requirements				
Sample	1	2	3	Average (J)
Results				

Hardness Test: Vickers - BS EN ISO 6507-1:2018

	Result
Requirements	
Results	116 HV10

Additional Testing: Required

*116 HV10 is indicative of a tensile strength of approximately 373 N/mm² (BS EN ISO 18265:2013). Note - opinions and interpretations are outside of the laboratory UKAS scope of approval.

End of Test Report

Tested By:	Louis Collins	Position:	Senior Technician	Date:	23/08/2021
Authorised By:	Louis Collins	Position:	Senior Technician	Date:	23/08/2021

Signature: [redacted]

Zurich Laboratory Services
Unit 3 Steel Park Trading Estate, Wednesfield
WV11 3BF
ZURICH LAB 16 Tel: 0800 026 1504
SAFed/CEOC Member Company

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ZURICH

Mechanical Test Certificate

Manufacturers Name: Construction Testing Solutions Ltd
Address: Bootham Lane Industrial Estate
Bootham Lane
Dunscroft
Doncaster
DN74JU

Specification(s):
Steel sample for tensile test

Date of Receipt: 13/08/2021
Reference No. ZE/ME/LC/002376
Project Reference: LS21-1247
Client Reference: CTS000870
Sample Reference: STR454, COC 774
Sample Ref : B1 - 72

Page No. 1 of 1

Tensile Test: BS EN ISO 6892-1:2019 (A224)

Temperature (°C): Room Temperature

	Size (mm)	CSA (mm^2)	Breaking Load (kN)	UTS (N/mm^2)	EL on $5.65\sqrt{So}$(%)	RP 0.2% (N/mm^2)	RT 0.5% (N/mm^2)	RP 1.0%	R in A (%)
Requirements									
Results	10.01	78.70	44.51	566	20	483	488		55

Impact Test: Not Required
Temperature (°C):
Size (mm):

	Results (J)			
Requirements				
Sample	1	2	3	Average (J)
Results				

Hardness Test: Not Required

	Result
Requirements	
Results	

Additional Testing: Not Required

End of Test Report

Remarks

Tested By: Louis Collins Position: Senior Technician Date: 19/08/2021

Authorised By: Louis Collins Position: Senior Technician Date: 19/08/2021

Signature: [redacted]
L Collins
LAB 16
SAFed/CEOC Member Company
Zurich Laboratory Services
Unit 3 Steel Park Trading Estate, Wednesfield
WV11 3BF
Tel: 0800 026 1504

UKAS TESTING
0854

Testing requirements have been carried out in accordance with client instructions and the quality requirements of Zurich Laboratory Services.
The results shown relate to the sample / specimen tested only. This test report shall not be reproduced except in full, without written approval of Zurich Laboratory Services (Part of Zurich Engineering).

ZURICH

Mechanical Test Certificate +

Manufacturers Name: Construction Testing Solutions Ltd
Address: Bootham Lane Industrial Estate
Bootham Lane
Dunscroft
Doncaster
DN74JU

Specification(s):
Steel sample for tensile test

Date of Receipt: 13/08/2021
Reference No. ZE/ME/LC/002375
Project Reference: LS21-1247
Client Reference: CTS001035
Sample Reference: STR454, COC 774
Sample Ref: B1 - 66

Page No. 1 of 1

Tensile Test: BS EN ISO 6892-1:2019 (A224)

Temperature (°C): Room Temperature

	Size (mm)	CSA (mm^2)	Breaking Load (kN)	UTS (N/mm^2)	EL on $5.65\sqrt{So}$ (%)	RP 0.2% (N/mm^2)	RT 0.5% (N/mm^2)	RP 1.0%	R in A (%)
Requirements									
Results	9.99	78.38	43.07	549	31	355	358		58

Impact Test: Not Required
Temperature (°C):
Size (mm):

	Results (J)			
Requirements				
Sample	1	2	3	Average (J)
Results				

Hardness Test: Not Required

	Result
Requirements	
Results	

Additional Testing: Not Required

End of Test Report

Remarks

Tested By: Louis Collins Position: Senior Technician Date: 19/08/2021

Authorised By: Louis Collins Position: Senior Technician Date: 19/08/2021

Signature: [redacted]
L Collins
LAB 16
SAFed/CEOC Member Company

Zurich Laboratory Services
Unit 3 Steel Park Trading Estate, Wednesfield
WV11 3BF
Tel: 0800 026 1504

UKAS TESTING
0854

Testing requirements have been carried out in accordance with client instructions and the quality requirements of Zurich Laboratory Services.
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ZURICH

Mechanical Test Certificate

Manufacturers Name: Construction Testing Solutions Ltd
Address: Bootham Lane Industrial Estate
Bootham Lane
Dunscroft
Doncaster
DN74JU

Specification(s):
Steel sample for tensile test

Date of Receipt: 19/08/2021
Reference No. ZE/ME/LC/002398
Project Reference: LS21-1183
Client Reference: CTS001096
Sample Reference: STR 454, COC783
Sample Ref: B1-57

Page No. 1 of 1

Tensile Test: BS EN ISO 6892-1:2019 (A224)

Temperature (°C): Room Temperature

	Size (mm)	CSA (mm^2)	Breaking Load (kN)	UTS (N/mm^2)	EL on $5.65\sqrt{So}$ (%)	RP 0.2% (N/mm^2)	RT 0.5% (N/mm^2)	RP 1.0%	R in A (%)
Requirements									
Results	14.02	154.38	77.78	504	32	328	325		

Impact Test: Not Required
Temperature (°C):
Size (mm):

	Results (J)			
Requirements				
Sample	1	2	3	Average (J)
Results				

Hardness Test: Not Required

	Result
Requirements	
Results	

Additional Testing: Not Required

End of Test Report

Remarks

Tested By: Louis Collins Position: Senior Technician Date: 24/08/2021

Authorised By: Louis Collins Position: Senior Technician Date: 24/08/2021

Signature: [redacted]
Zurich Laboratory Services
Unit 3 Steel Park Trading Estate, Wednesfield WV11 3BF
L Collins
LAB 16
Tel: 0800 026 1504
SAFed/CEOC Member Company

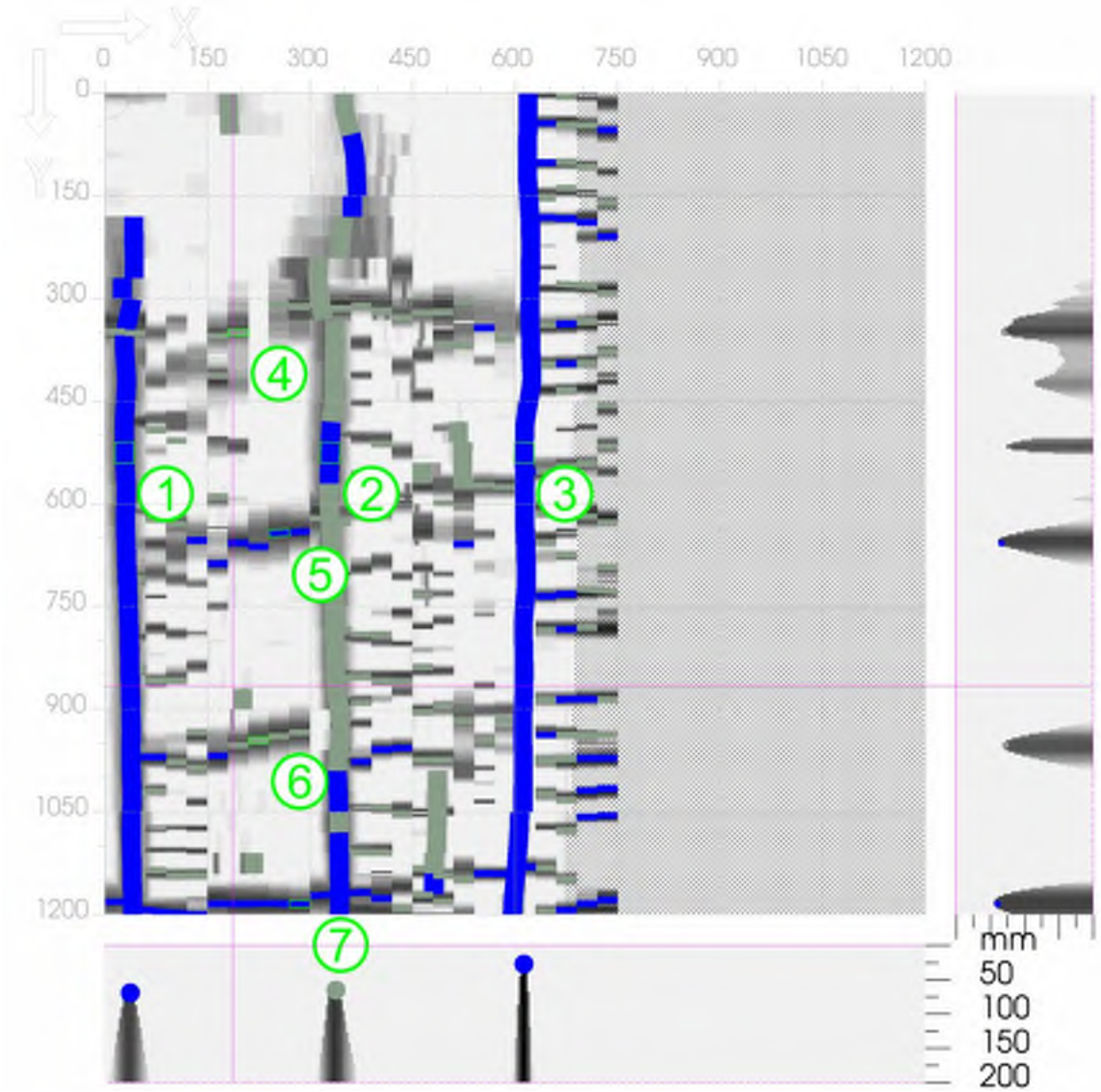
UKAS TESTING 0854

Testing requirements have been carried out in accordance with client instructions and the quality requirements of Zurich Laboratory Services.
The results shown relate to the sample / specimen tested only. This test report shall not be reproduced except in full, without written approval of Zurich Laboratory Services (Part of Zurich Engineering).

Appendix C – Individual Ferroscans

.Hilti PROFIS Detection Report

Scan File:	1 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-07-15 14:25:35
Comment:	-



x: 188 mm	y: 866 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

Project name:	CIS B3	Customer:	CIS Tower
Location:	B3 Loc 1 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

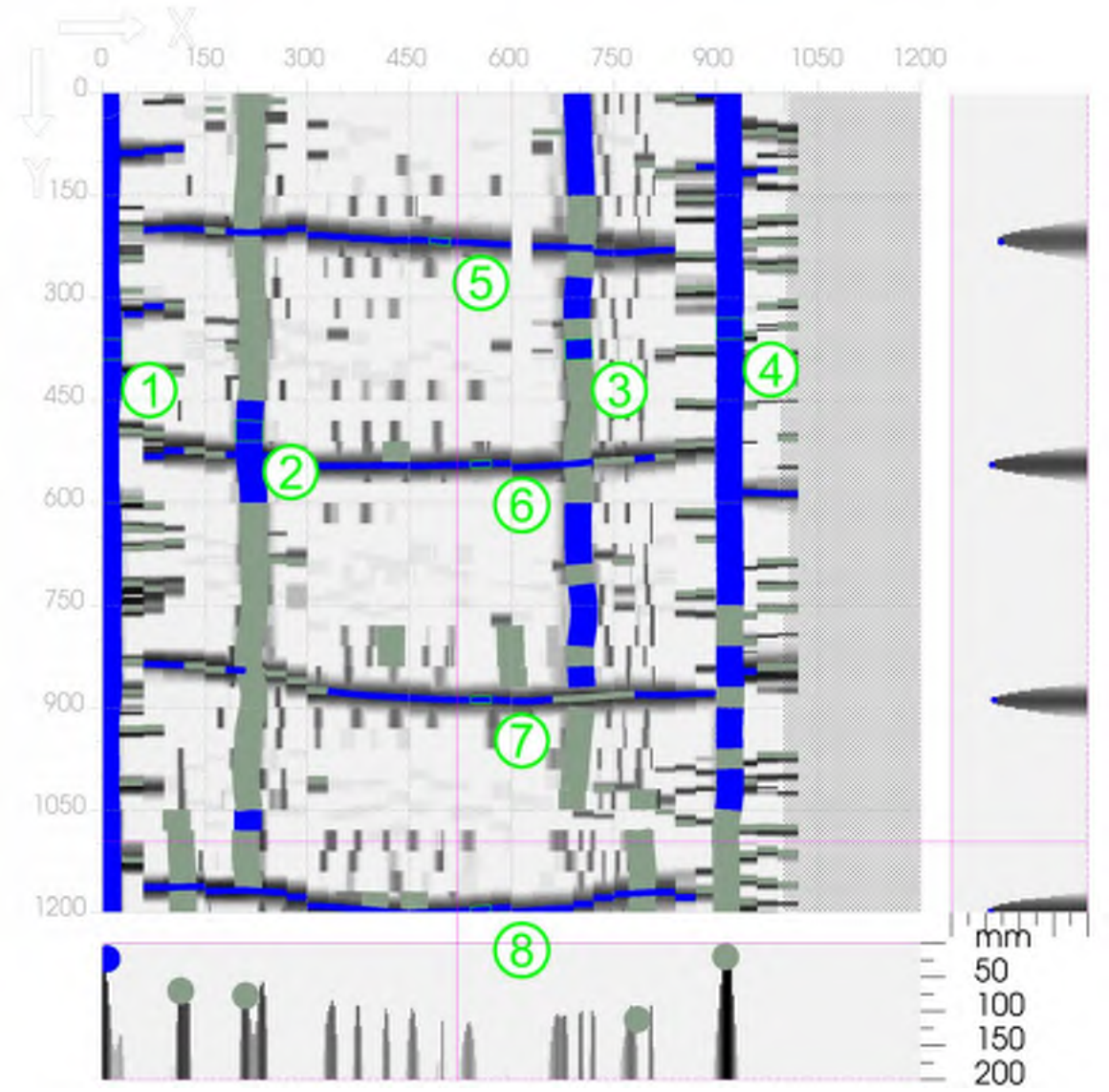
Recorded	x:	y:	Cover:	Ø:	Orientation:	Quality:

measurements:

1.	29 mm	525 mm	70 mm	28 mm	Vertical	High
2.	330 mm	525 mm	71 mm	28 mm	Vertical	High
3.	613 mm	525 mm	26 mm	28 mm	Vertical	High
4.	195 mm	350 mm	65 mm	10 mm	Horizontal	Low
5.	255 mm	643 mm	63 mm	10 mm	Horizontal	High
6.	225 mm	945 mm	62 mm	10 mm	Horizontal	Low
7.	285 mm	1184 mm	52 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	2 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-07-16 11:53:27
Comment:	-



x: 520 mm y: 1097 mm z: 0 mm Thickness: 200 mm

Overlay: - mm

Project name:	CIS B3	Customer:	CIS Tower
Location:	B3 Loc 2 East Face	Object:	Column
User:	BD		
Comment:	Main bar size is 38mm Smooth		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	40 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

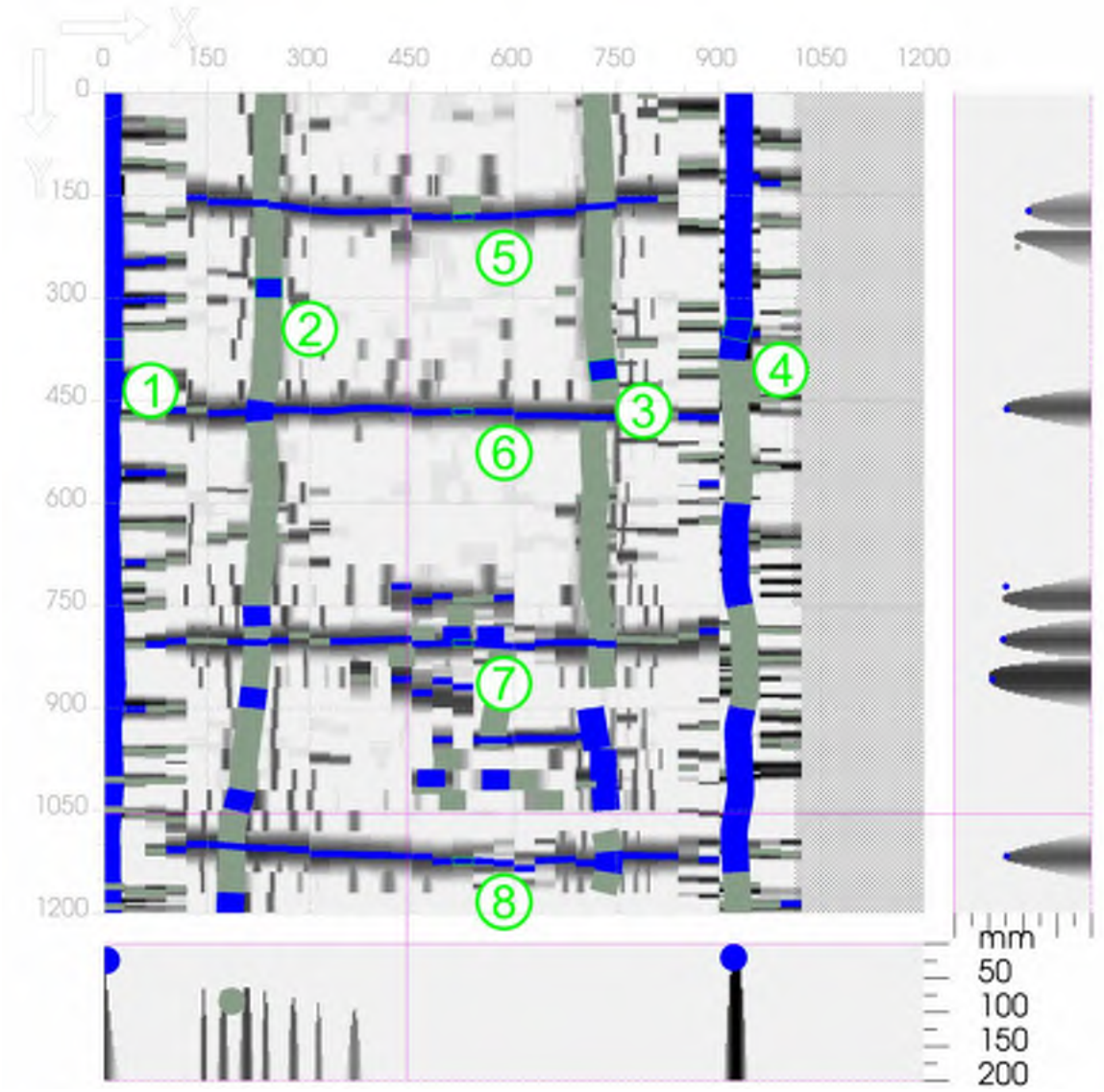
Recorded	x:	y:	Cover:	Ø:	Orientation:	Quality:

measurements:

1.	8 mm	375 mm	5 mm	40 mm	Vertical	High
2.	216 mm	495 mm	53 mm	40 mm	Vertical	High
3.	698 mm	375 mm	78 mm	40 mm	Vertical	High
4.	920 mm	345 mm	3 mm	40 mm	Vertical	High
5.	495 mm	218 mm	64 mm	10 mm	Horizontal	High
6.	555 mm	543 mm	55 mm	10 mm	Horizontal	High
7.	555 mm	888 mm	57 mm	10 mm	Horizontal	High
8.	555 mm	1195 mm	55 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	2 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-07-16 11:48:38
Comment:	-



x: 442 mm	y: 1055 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

Project name:	CIS B3	Customer:	CIS Tower
Location:	B3 Loc 2 North Face	Object:	Column
User:	BD		
Comment:	Main bar size is 38mm Smooth		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	40 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

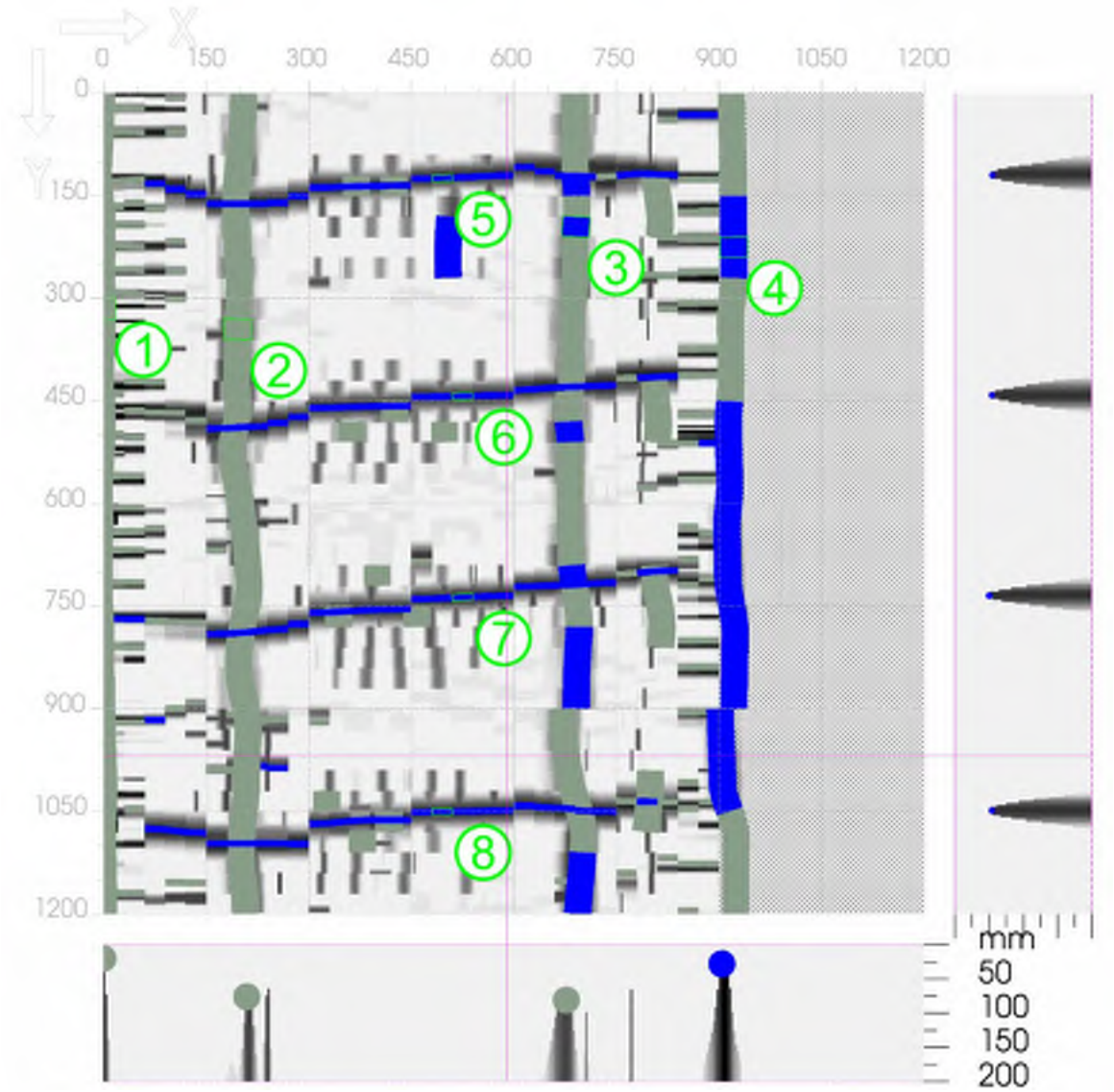
Recorded	x:	y:	Cover:	Ø:	Orientation:	Quality:

measurements:

1.	7 mm	375 mm	1 mm	40 mm	Vertical	High
2.	240 mm	285 mm	66 mm	40 mm	Vertical	High
3.	729 mm	405 mm	65 mm	40 mm	Vertical	High
4.	930 mm	345 mm	2 mm	40 mm	Vertical	High
5.	525 mm	181 mm	68 mm	10 mm	Horizontal	High
6.	525 mm	466 mm	69 mm	10 mm	Horizontal	High
7.	525 mm	804 mm	66 mm	10 mm	Horizontal	High
8.	525 mm	1123 mm	70 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	3 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-07-16 12:49:52
Comment:	-



x: 589 mm y: 968 mm z: 0 mm Thickness: 200 mm

Overlay: - mm

Project name:	CIS B3	Customer:	CIS Tower
Location:	B3 Loc 3 West Face	Object:	Column
User:	BD		
Comment:	Main bar size is 38mm Smooth		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	40 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

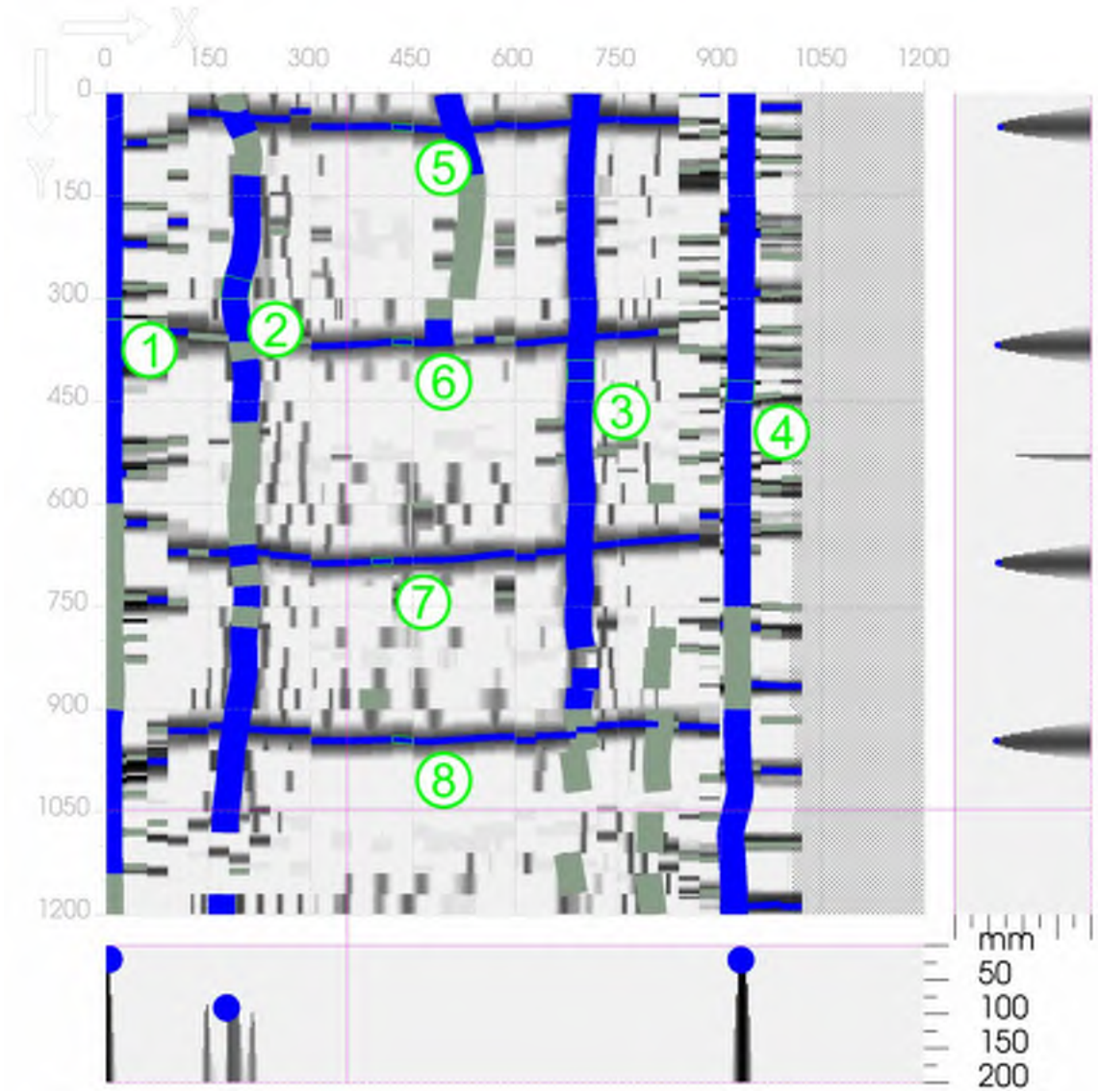
Recorded	x:	y:	Cover:	Ø:	Orientation:	Quality:

measurements:

1.	-2 mm	315 mm	0 mm	40 mm	Vertical	Low
2.	196 mm	345 mm	64 mm	40 mm	Vertical	Low
3.	689 mm	195 mm	61 mm	40 mm	Vertical	High
4.	921 mm	225 mm	1 mm	40 mm	Vertical	High
5.	495 mm	124 mm	51 mm	10 mm	Horizontal	High
6.	525 mm	443 mm	50 mm	10 mm	Horizontal	High
7.	525 mm	737 mm	48 mm	10 mm	Horizontal	High
8.	495 mm	1050 mm	50 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	4 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-07-16 11:58:21
Comment:	-



x: 353 mm	y: 1046 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

Project name:	CIS B3	Customer:	CIS Tower
Location:	B3 Loc 4 East Face	Object:	Column
User:	BD		
Comment:	Main bar size is 38mm Smooth		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	40 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

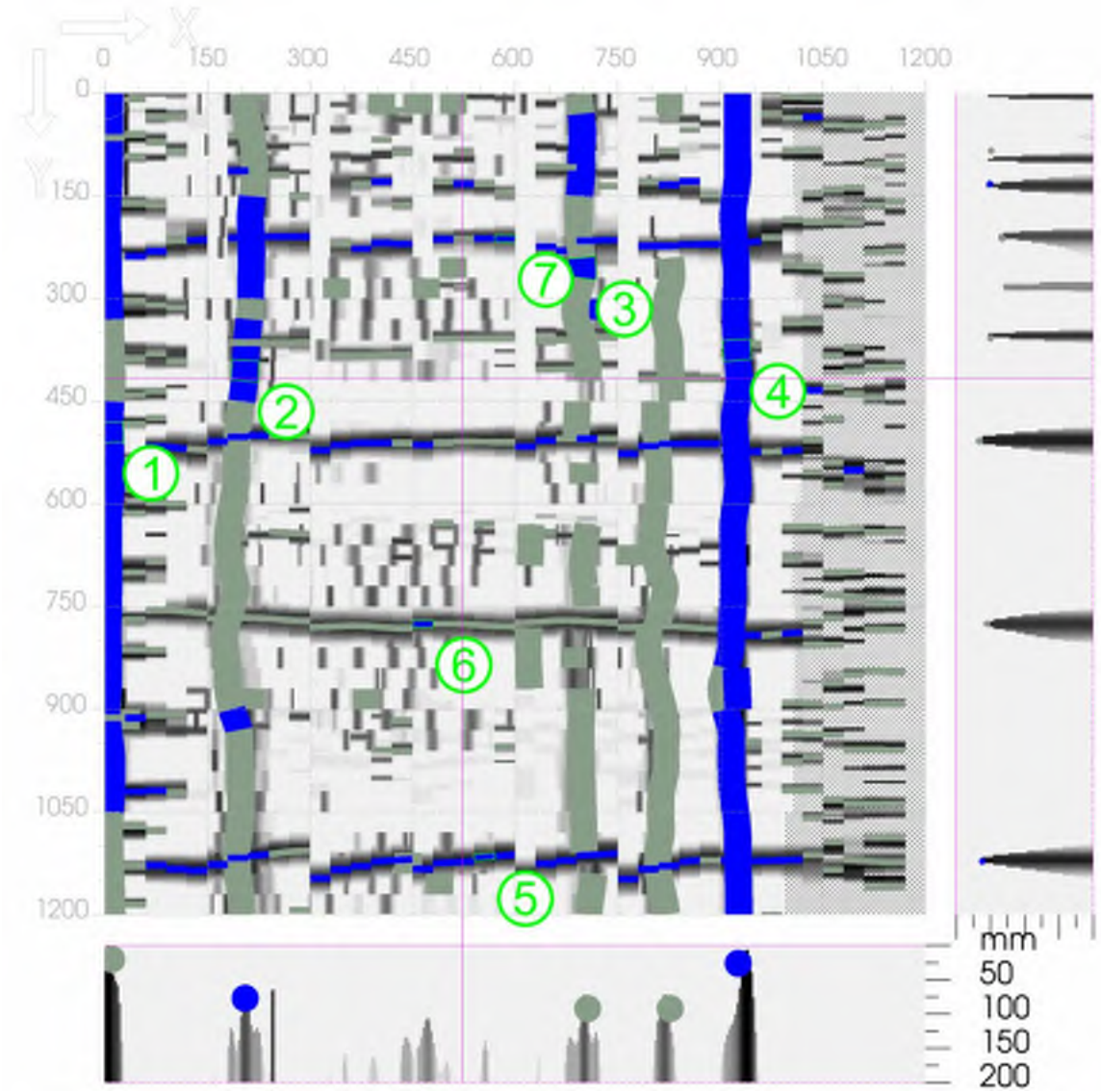
Recorded	x:	y:	Cover:	Ø:	Orientation:	Quality:

measurements:

1.	3 mm	315 mm	0 mm	40 mm	Vertical	High
2.	188 mm	285 mm	67 mm	40 mm	Vertical	High
3.	696 mm	405 mm	66 mm	40 mm	Vertical	High
4.	931 mm	435 mm	1 mm	40 mm	Vertical	High
5.	435 mm	49 mm	62 mm	10 mm	Horizontal	High
6.	435 mm	361 mm	61 mm	10 mm	Horizontal	High
7.	405 mm	684 mm	59 mm	10 mm	Horizontal	High
8.	435 mm	943 mm	57 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	4 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-07-16 12:06:42
Comment:	-



x: 523 mm	y: 416 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

Project name:	CIS B3	Customer:	CIS Tower
Location:	B3 Loc 4 South Face	Object:	Column
User:	BD		
Comment:	Main bar size is 38mm Smooth		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	40 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

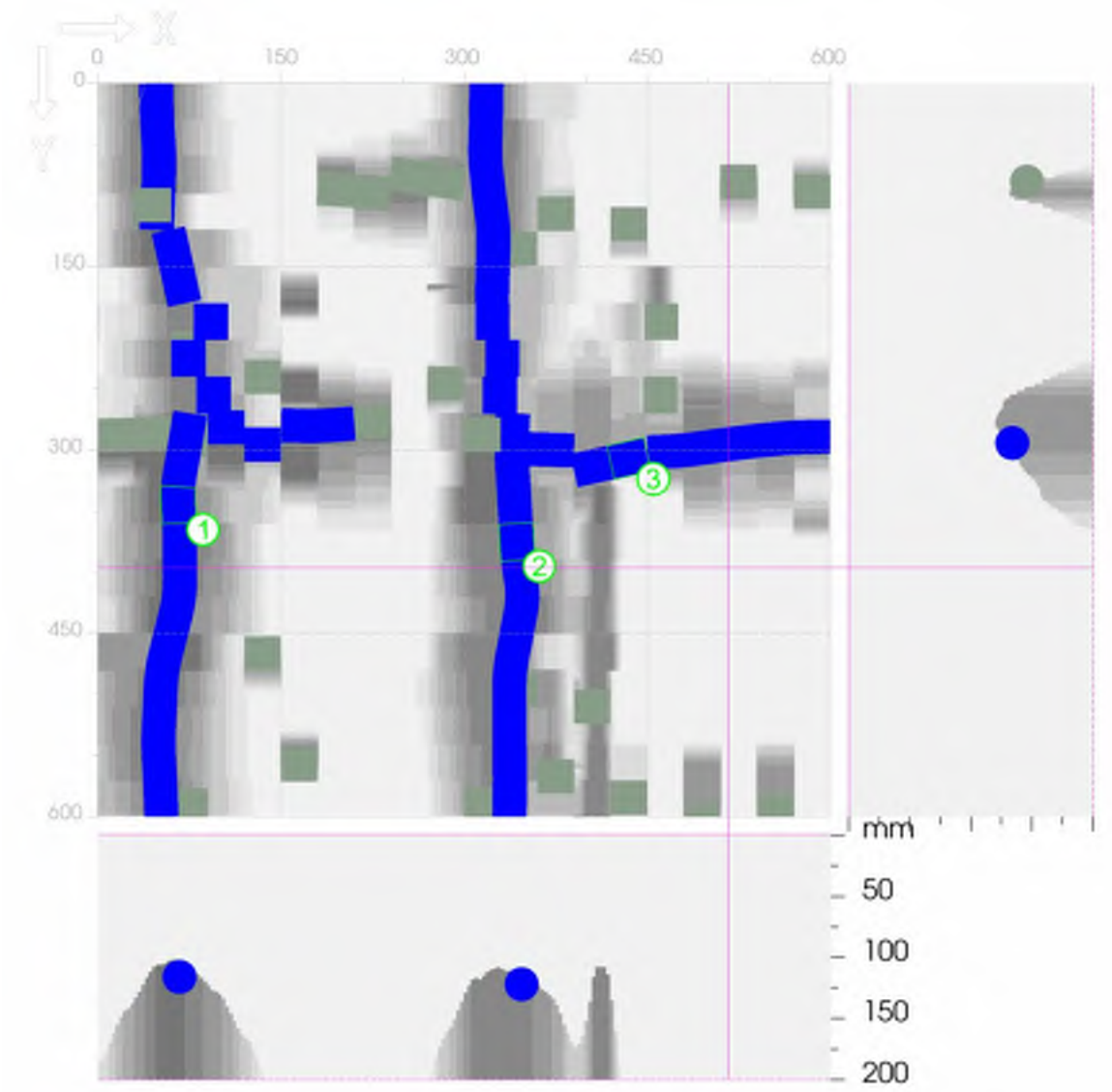
Recorded	x:	y:	Cover:	Ø:	Orientation:	Quality:

measurements:

1.	7 mm	495 mm	5 mm	40 mm	Vertical	High
2.	205 mm	405 mm	57 mm	40 mm	Vertical	High
3.	700 mm	255 mm	53 mm	40 mm	Vertical	High
4.	924 mm	375 mm	6 mm	40 mm	Vertical	High
5.	555 mm	1116 mm	32 mm	10 mm	Horizontal	High
6.	465 mm	775 mm	48 mm	10 mm	Horizontal	High
7.	585 mm	212 mm	48 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	5.fscan
Serial number:	227190008
Date / Time:	2021-07-16 13:20:43
Comment:	-



x: 516 mm	y: 396 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

Project name:	CIS B3	Customer:	CIS Tower
Location:	B3 Loc 5	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	28 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

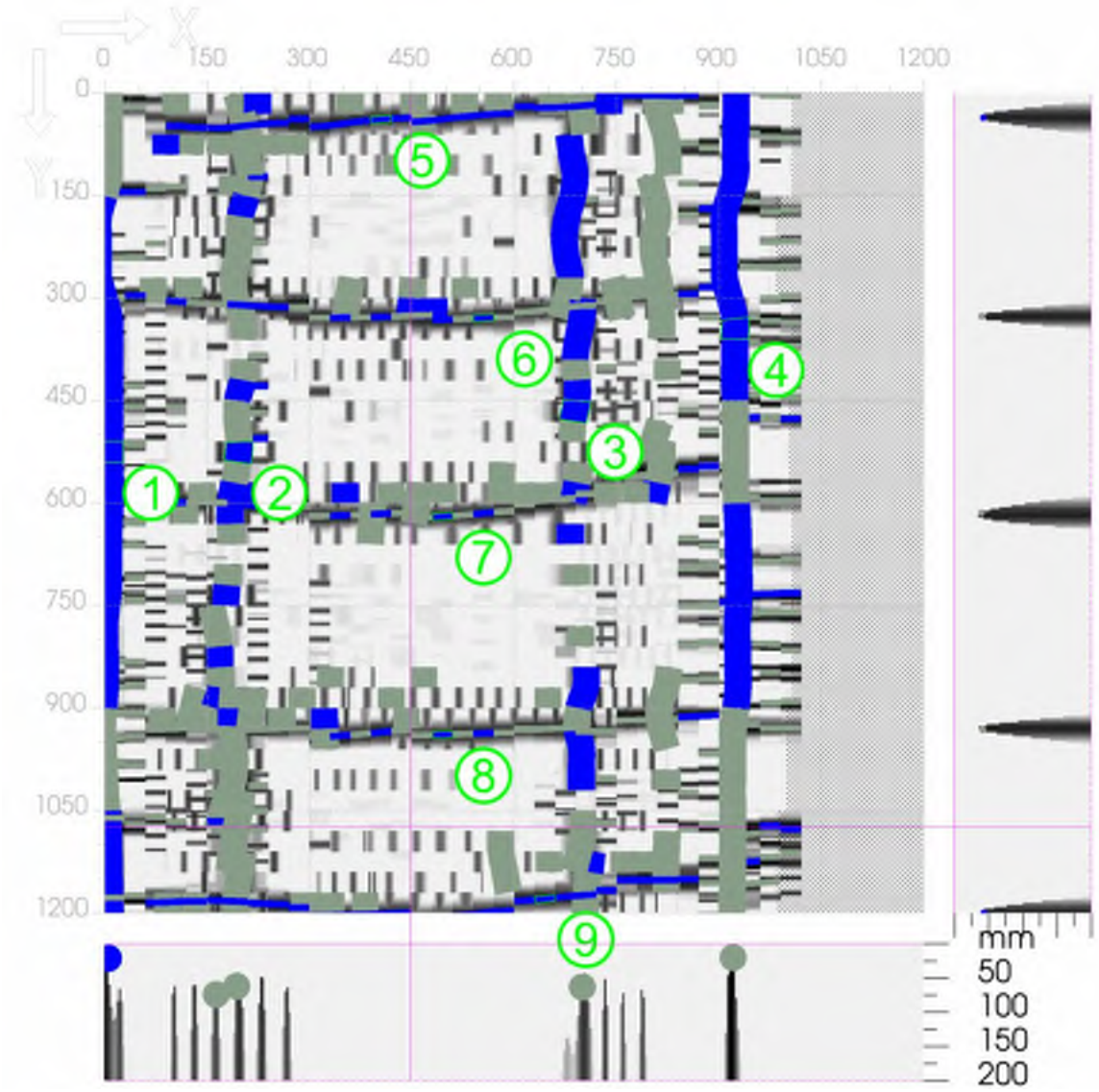
Recorded	x:	y:	Cover:	Ø:	Orientation:	Quality:

measurements:

1.	66 mm	345 mm	100 mm	28 mm	Vertical	High
2.	341 mm	375 mm	108 mm	28 mm	Vertical	High
3.	435 mm	304 mm	134 mm	28 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	6 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-07-16 13:53:08
Comment:	-



x: 448 mm	y: 1075 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

Project name:	CIS B3	Customer:	CIS Tower
Location:	B3 Loc 6 South Face	Object:	Column
User:	BD		
Comment:	Main bar size is 38mm Smooth		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	40 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

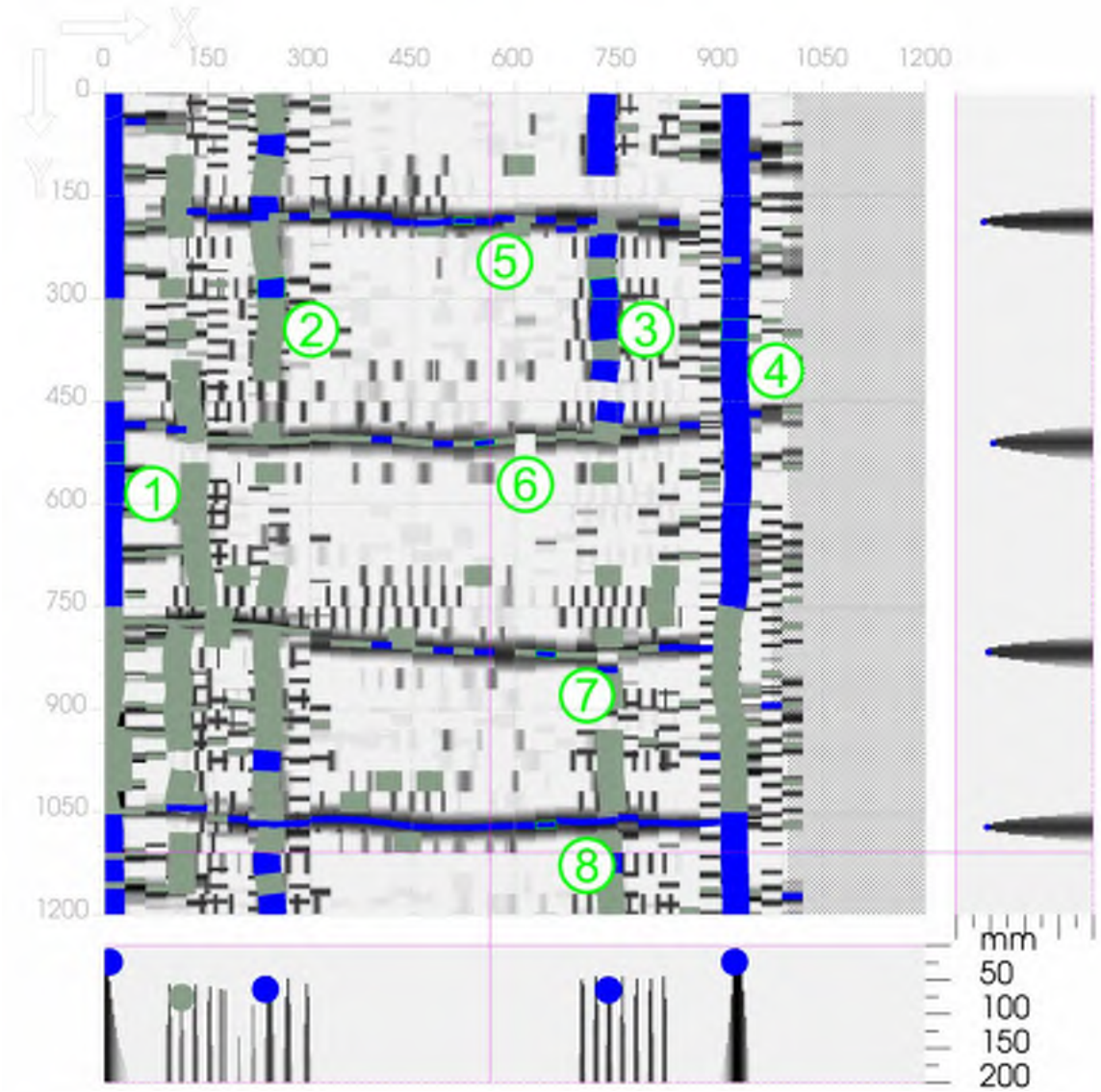
Recorded	x:	y:	Cover:	Ø:	Orientation:	Quality:

measurements:

1.	8 mm	525 mm	0 mm	40 mm	Vertical	High
2.	196 mm	525 mm	45 mm	40 mm	Vertical	High
3.	688 mm	465 mm	54 mm	40 mm	Vertical	High
4.	924 mm	345 mm	2 mm	40 mm	Vertical	High
5.	405 mm	38 mm	38 mm	10 mm	Horizontal	High
6.	555 mm	329 mm	37 mm	10 mm	Horizontal	High
7.	495 mm	619 mm	34 mm	10 mm	Horizontal	High
8.	495 mm	939 mm	35 mm	10 mm	Horizontal	High
9.	645 mm	1179 mm	29 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	6 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-07-16 13:59:09
Comment:	-



x: 563 mm y: 1109 mm z: 0 mm Thickness: 200 mm
Overlay: - mm

Project name:	CIS B3	Customer:	CIS Tower
Location:	B3 Loc 6 West Face	Object:	Column
User:	BD		
Comment:	Main bar size is 38mm Smooth		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	40 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

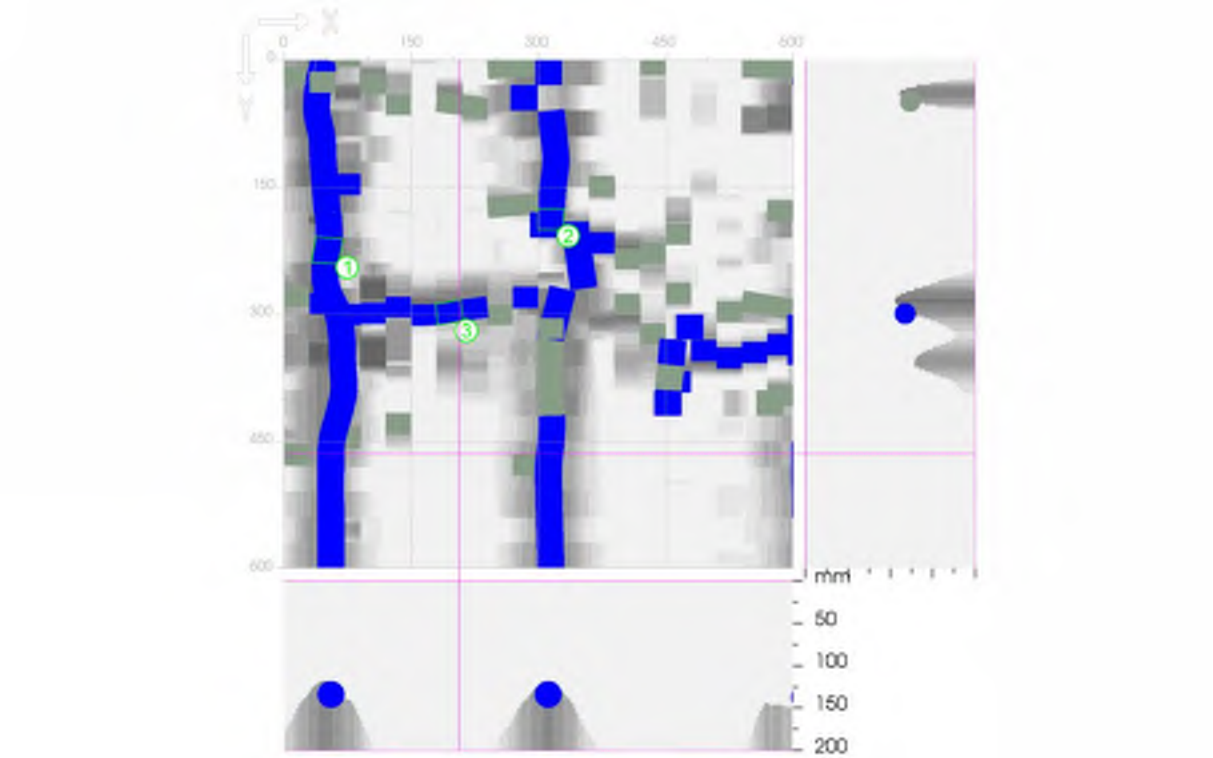
Recorded	x:	y:	Cover:	Ø:	Orientation:	Quality:

measurements:

1.	10 mm	525 mm	2 mm	40 mm	Vertical	High
2.	242 mm	285 mm	46 mm	40 mm	Vertical	High
3.	731 mm	285 mm	53 mm	40 mm	Vertical	High
4.	921 mm	345 mm	2 mm	40 mm	Vertical	High
5.	525 mm	185 mm	33 mm	10 mm	Horizontal	High
6.	555 mm	511 mm	49 mm	10 mm	Horizontal	High
7.	645 mm	819 mm	41 mm	10 mm	Horizontal	High
8.	645 mm	1068 mm	36 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	7.fscan
Serial number:	227190008
Date / Time:	2021-07-27 11:26:58
Comment:	-



x: 207 mm	y: 465 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

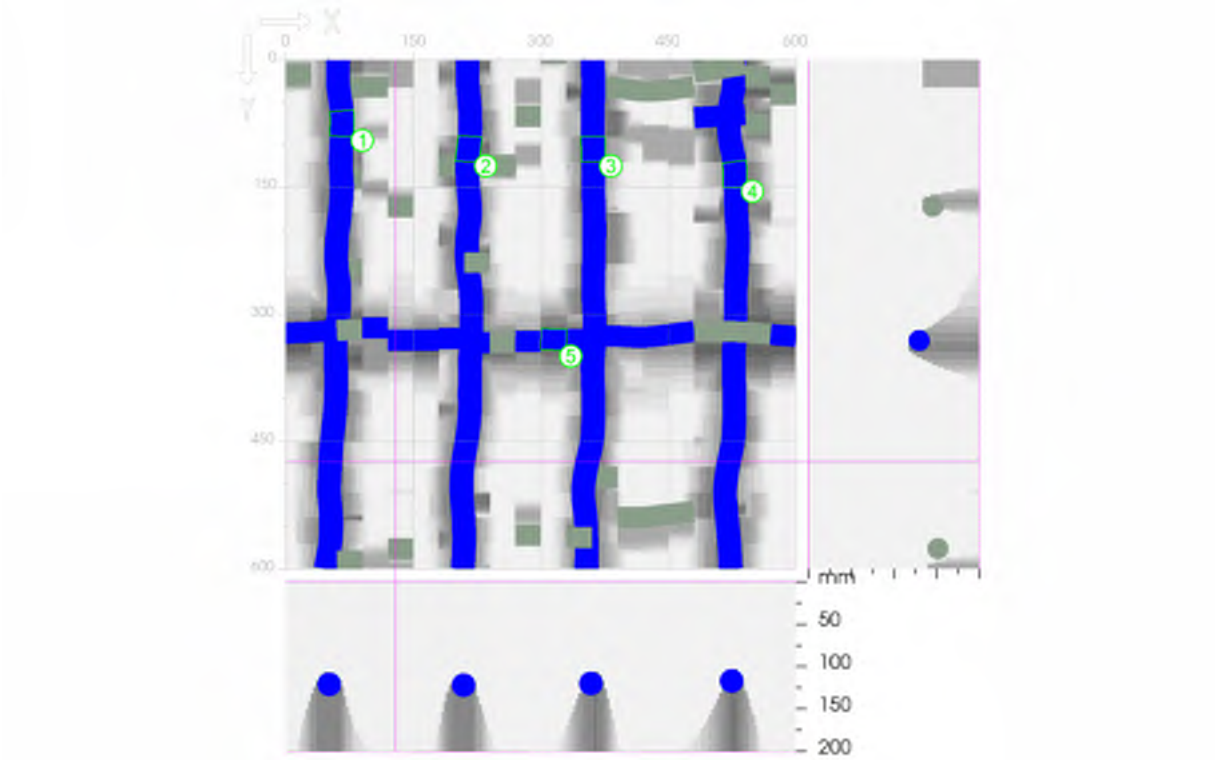
Project name:	CIS - B2	Customer:	CIS Tower
Location:	Level B2 Loc 7	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	25 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	54 mm	225 mm	99 mm	32 mm	Vertical	High
2.	315 mm	188 mm	97 mm	25 mm	Horizontal	High
3.	195 mm	300 mm	105 mm	25 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	8.fscan
Serial number:	227190008
Date / Time:	2021-07-27 11:31:28
Comment:	-



x: 130 mm	y: 474 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

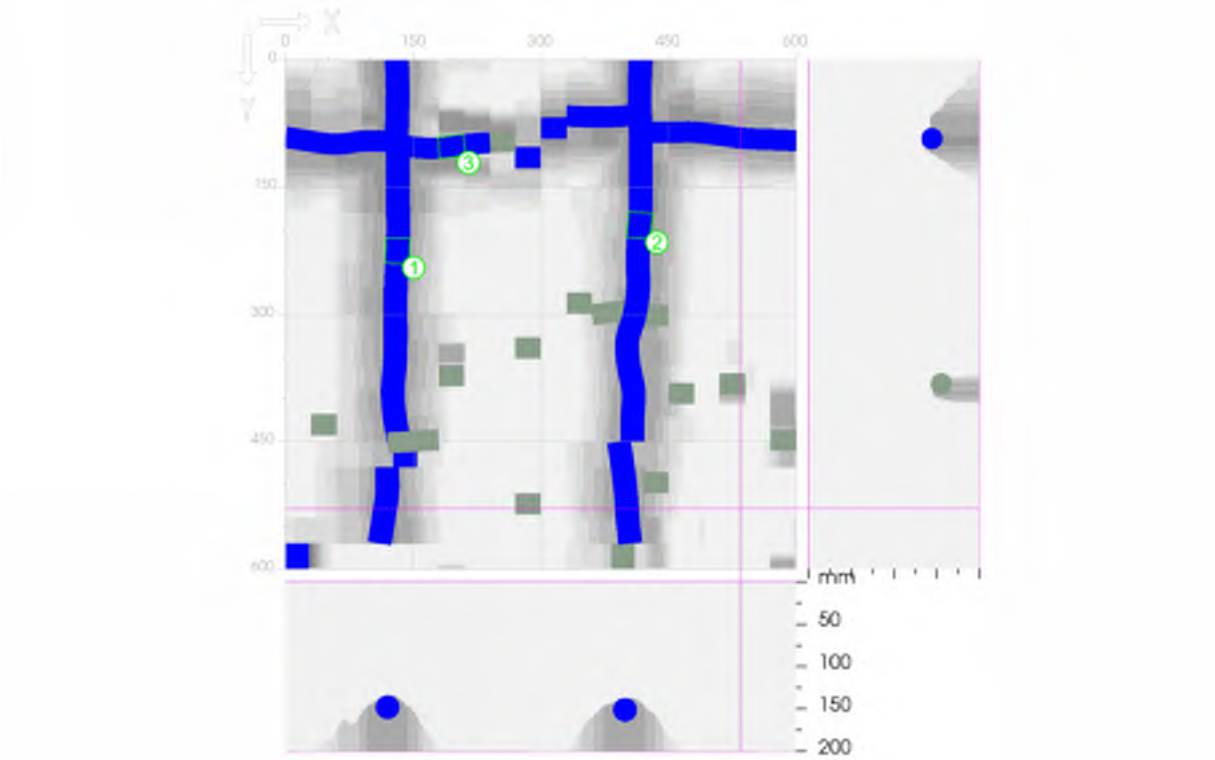
Project name:	CIS - B2	Customer:	CIS Tower
Location:	Level B2 Loc 8	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	25 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	70 mm	75 mm	104 mm	28 mm	Vertical	High
2.	215 mm	105 mm	104 mm	28 mm	Vertical	High
3.	362 mm	105 mm	104 mm	28 mm	Vertical	High
4.	528 mm	135 mm	103 mm	28 mm	Vertical	High
5.	315 mm	329 mm	87 mm	25 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	9.fscan
Serial number:	227190008
Date / Time:	2021-07-27 12:04:01
Comment:	-



x: 534 mm	y: 529 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

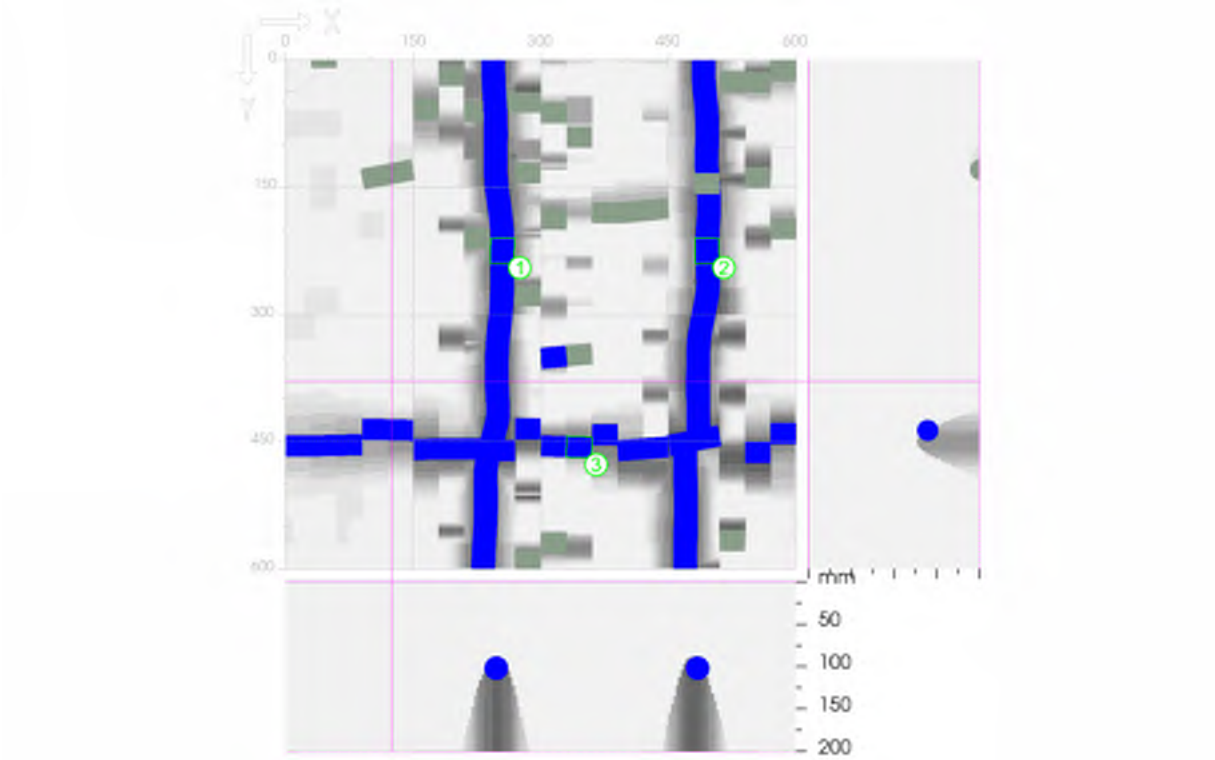
Project name:	CIS - B2	Customer:	CIS Tower
Location:	Level B2 Loc 9	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	25 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	131 mm	225 mm	133 mm	28 mm	Vertical	High
2.	416 mm	195 mm	132 mm	28 mm	Vertical	High
3.	195 mm	101 mm	125 mm	25 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	10.fscan
Serial number:	227190008
Date / Time:	2021-07-27 12:00:20
Comment:	-



x: 125 mm	y: 379 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

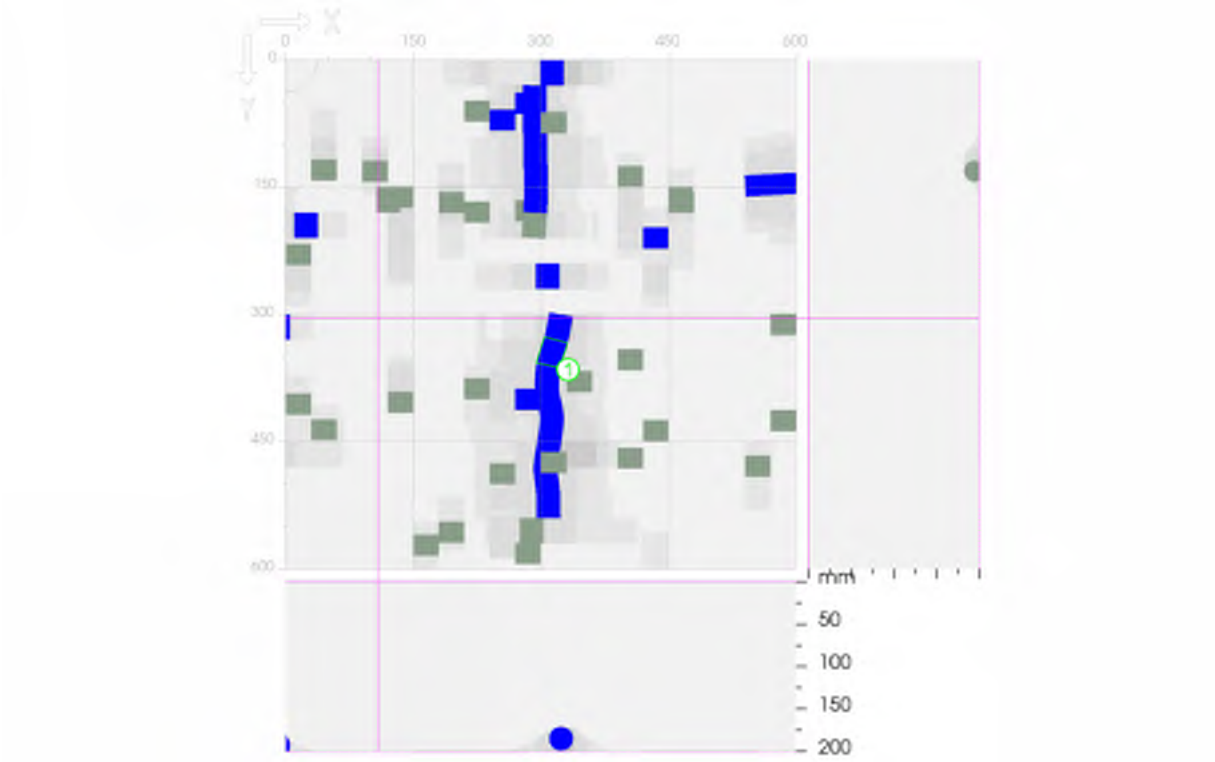
Project name:	CIS - B2	Customer:	CIS Tower
Location:	Level B2 Loc 10	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	25 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	255 mm	225 mm	90 mm	28 mm	Vertical	High
2.	495 mm	225 mm	92 mm	28 mm	Vertical	High
3.	345 mm	457 mm	109 mm	25 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	13.fscan
Serial number:	227190008
Date / Time:	2021-07-27 11:35:23
Comment:	-



x: 108 mm	y: 305 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

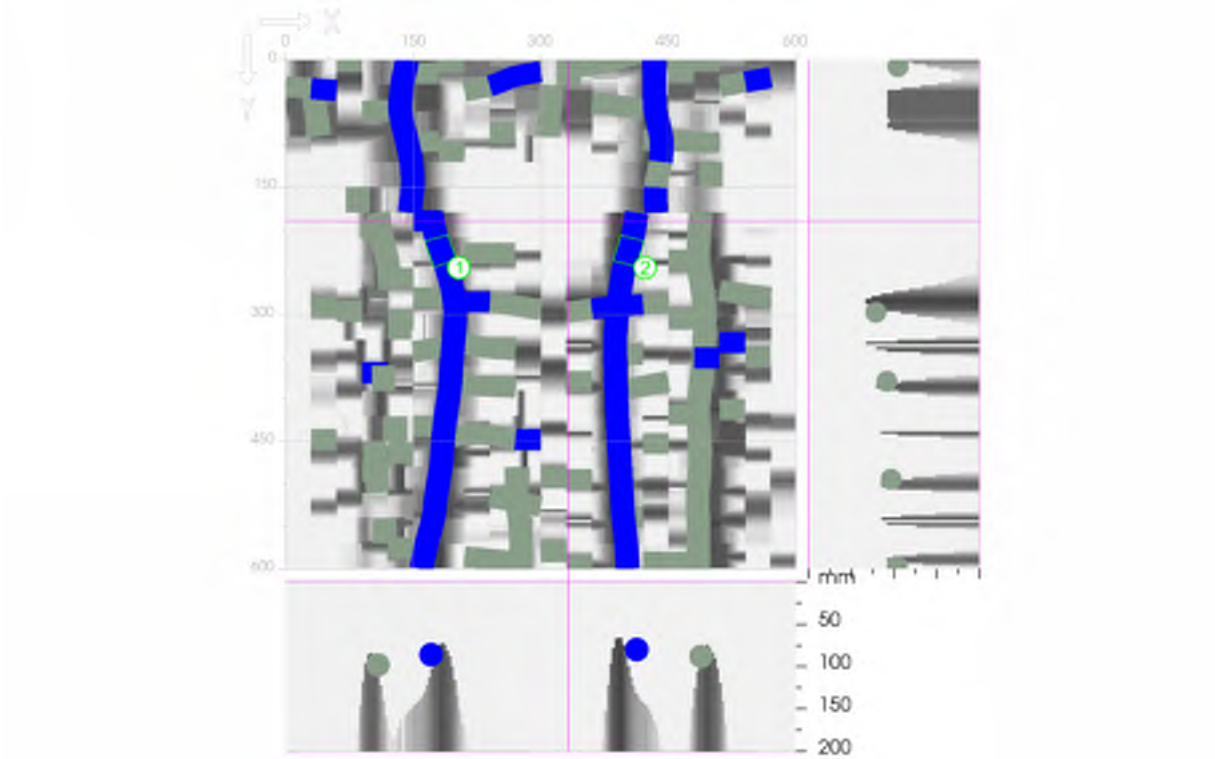
Project name:	CIS - B2	Customer:	CIS Tower
Location:	Level B2 Loc 13	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	25 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	312 mm	345 mm	178 mm	28 mm	Vertical	High

.Hilti PROFIS Detection Report

Scan File:	14.fscan
Serial number:	227190008
Date / Time:	2021-07-27 11:54:48
Comment:	-



x: 332 mm	y: 190 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

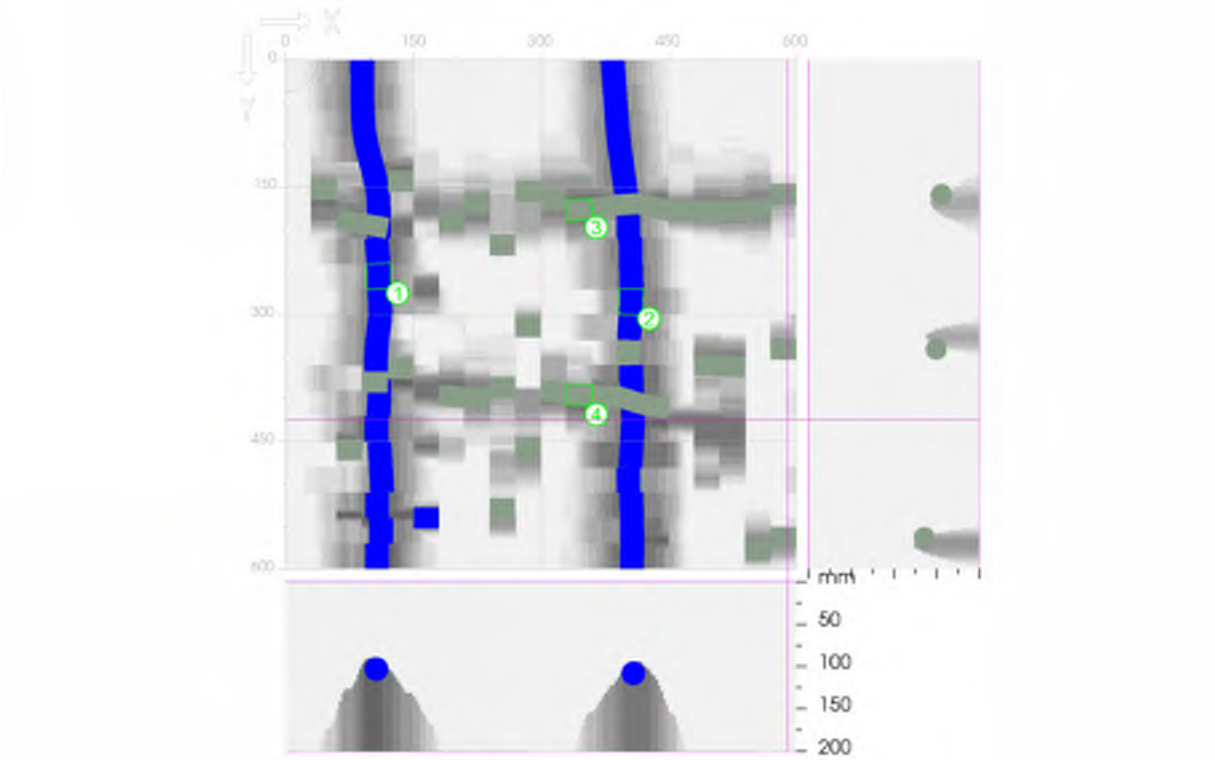
Project name:	CIS - B2	Customer:	CIS Tower
Location:	Level B2 Loc 14	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	25 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	184 mm	225 mm	69 mm	28 mm	Vertical	High
2.	402 mm	225 mm	63 mm	28 mm	Vertical	High

.Hilti PROFIS Detection Report

Scan File:	15.fscan
Serial number:	227190008
Date / Time:	2021-07-27 11:39:13
Comment:	-



x: 589 mm	y: 424 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

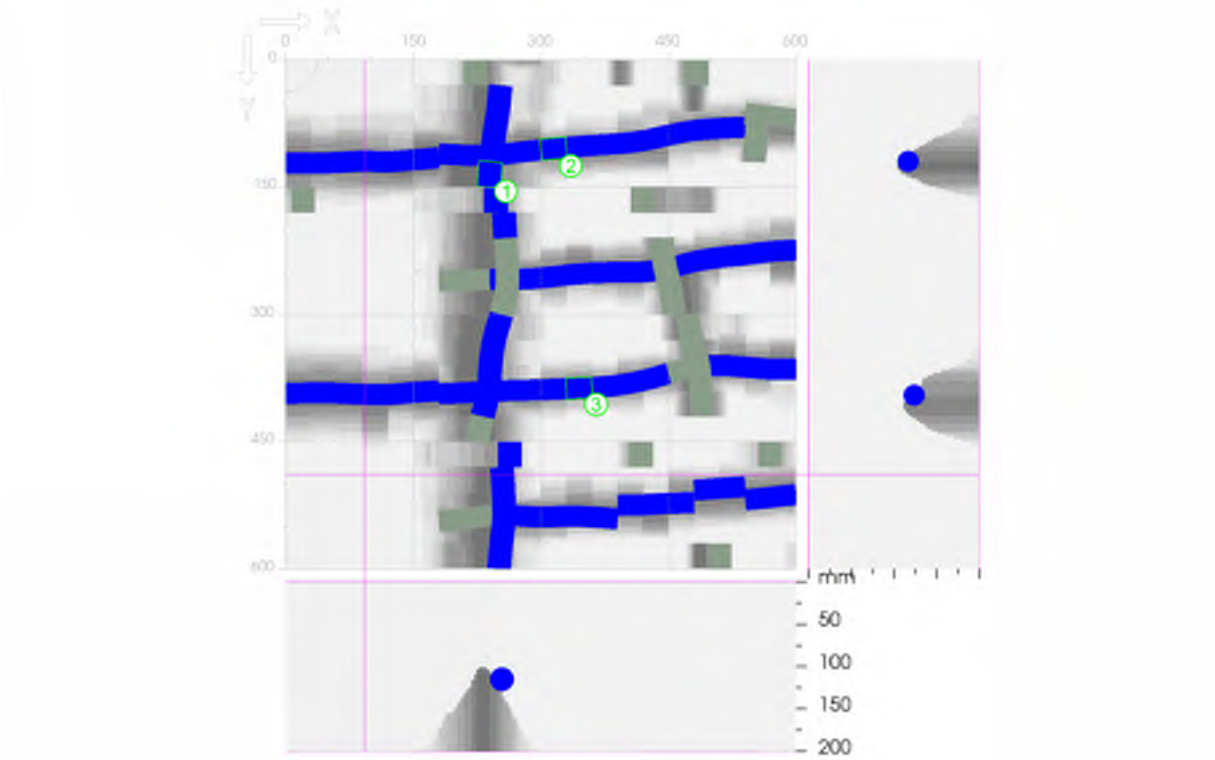
Project name:	CIS - B2	Customer:	CIS Tower
Location:	Level B2 Loc 15	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	25 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	112 mm	255 mm	109 mm	28 mm	Vertical	High
2.	407 mm	285 mm	111 mm	28 mm	Vertical	High
3.	345 mm	177 mm	101 mm	25 mm	Horizontal	Low
4.	345 mm	398 mm	97 mm	25 mm	Horizontal	Low

.Hilti PROFIS Detection Report

Scan File:	16.fscan
Serial number:	227190008
Date / Time:	2021-07-27 11:42:53
Comment:	-



x: 93 mm	y: 489 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

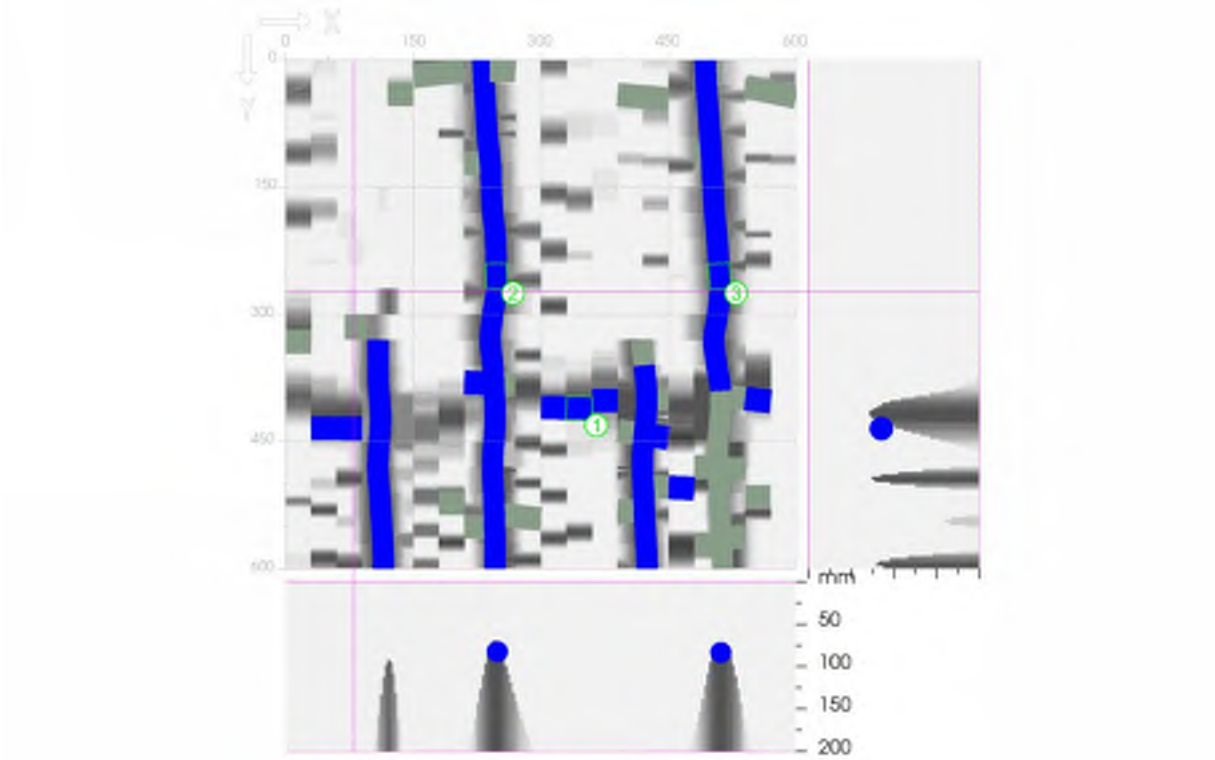
Project name:	CIS - B2	Customer:	CIS Tower
Location:	Level B2 Loc 16	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	25 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	239 mm	135 mm	98 mm	28 mm	Vertical	High
2.	315 mm	105 mm	118 mm	25 mm	Horizontal	High
3.	345 mm	386 mm	116 mm	25 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	20.fscan
Serial number:	227190008
Date / Time:	2021-07-27 11:46:36
Comment:	-



x: 80 mm	y: 274 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

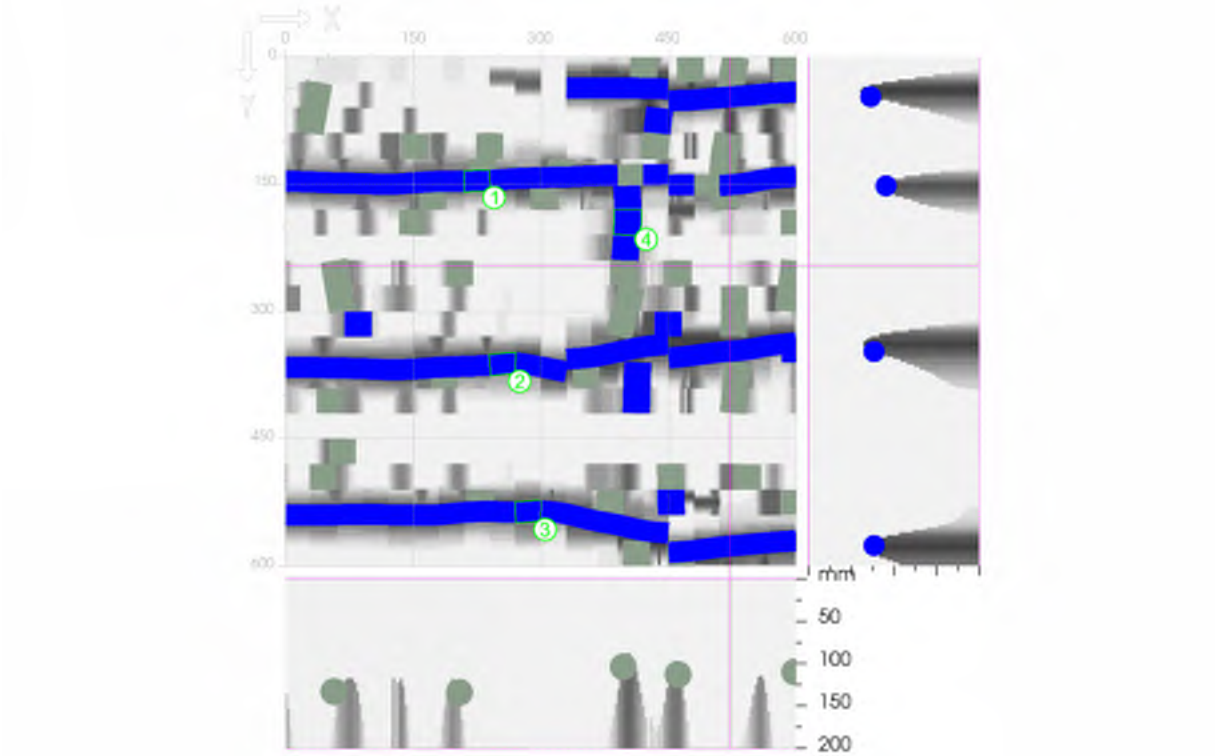
Project name:	CIS - B2	Customer:	CIS Tower
Location:	Level B2 Loc 20	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	28 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	345 mm	411 mm	76 mm	28 mm	Horizontal	High
2.	247 mm	255 mm	72 mm	25 mm	Vertical	High
3.	509 mm	255 mm	75 mm	25 mm	Vertical	High

.Hilti PROFIS Detection Report

Scan File:	22.fscan
Serial number:	227190008
Date / Time:	2021-08-19 17:28:28
Comment:	-



x: 522 mm	y: 246 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

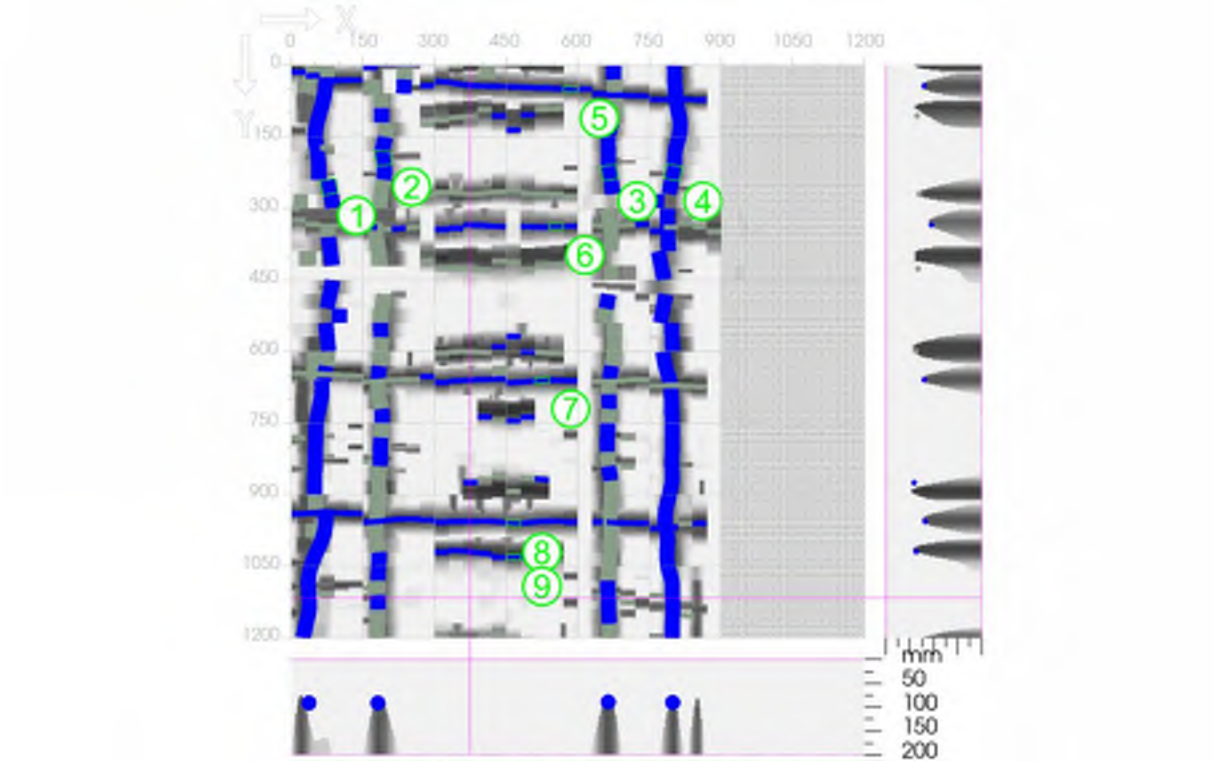
Project name:	CIS - B2	Customer:	CIS Tower
Location:	Level B2 Loc 22	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	25 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	225 mm	146 mm	74 mm	25 mm	Horizontal	High
2.	255 mm	362 mm	75 mm	25 mm	Horizontal	High
3.	285 mm	537 mm	78 mm	25 mm	Horizontal	High
4.	404 mm	195 mm	99 mm	32 mm	Vertical	High

.Hilti PROFIS Detection Report

Scan File:	29 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-08-16 14:53:00
Comment:	-



x: 374 mm	y: 1117 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

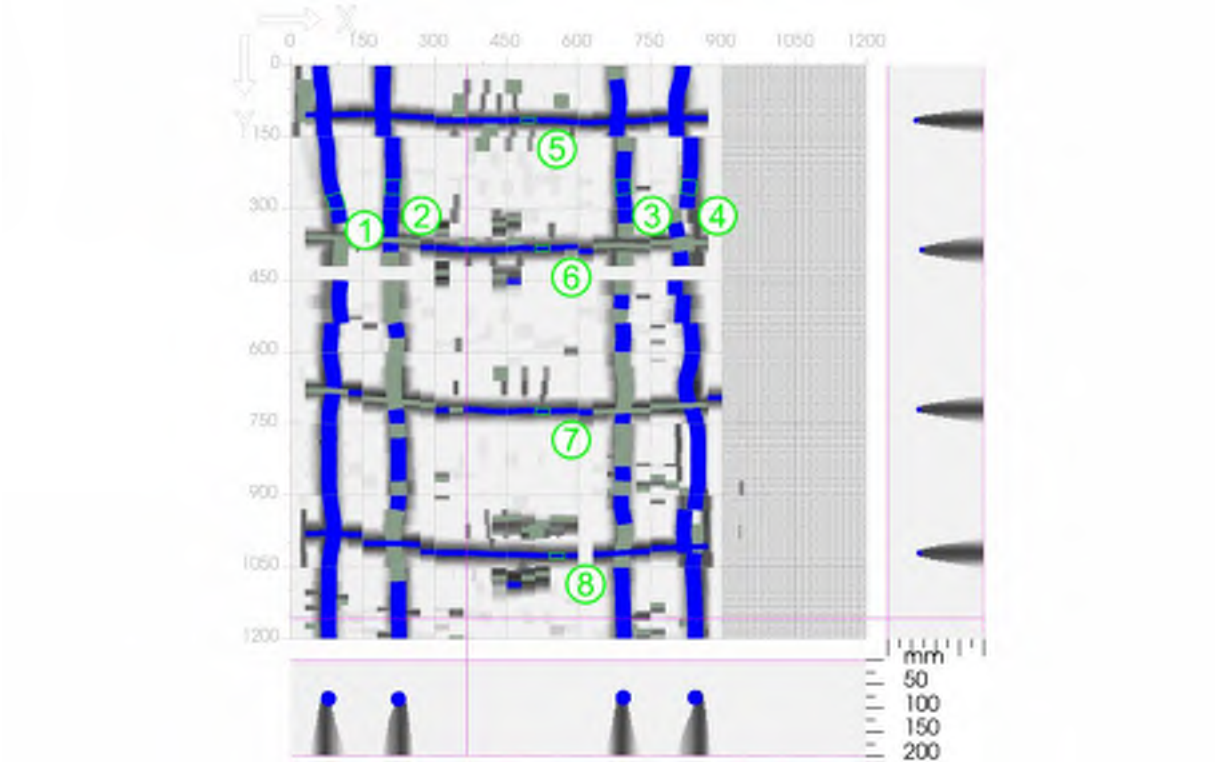
Project name:	CIS - B1 -L	Customer:	CIS Tower
Location:	Level B1L Loc 29 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	77 mm	255 mm	85 mm	32 mm	Vertical	High
2.	192 mm	195 mm	91 mm	32 mm	Vertical	High
3.	664 mm	225 mm	89 mm	32 mm	Vertical	High
4.	802 mm	225 mm	85 mm	32 mm	Vertical	High
5.	585 mm	51 mm	62 mm	12 mm	Horizontal	High
6.	555 mm	338 mm	79 mm	12 mm	Horizontal	High
7.	525 mm	660 mm	75 mm	12 mm	Horizontal	High
8.	465 mm	961 mm	74 mm	12 mm	Horizontal	High
9.	465 mm	1032 mm	52 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	29 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-08-16 17:50:39
Comment:	-



x: 368 mm	y: 1157 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

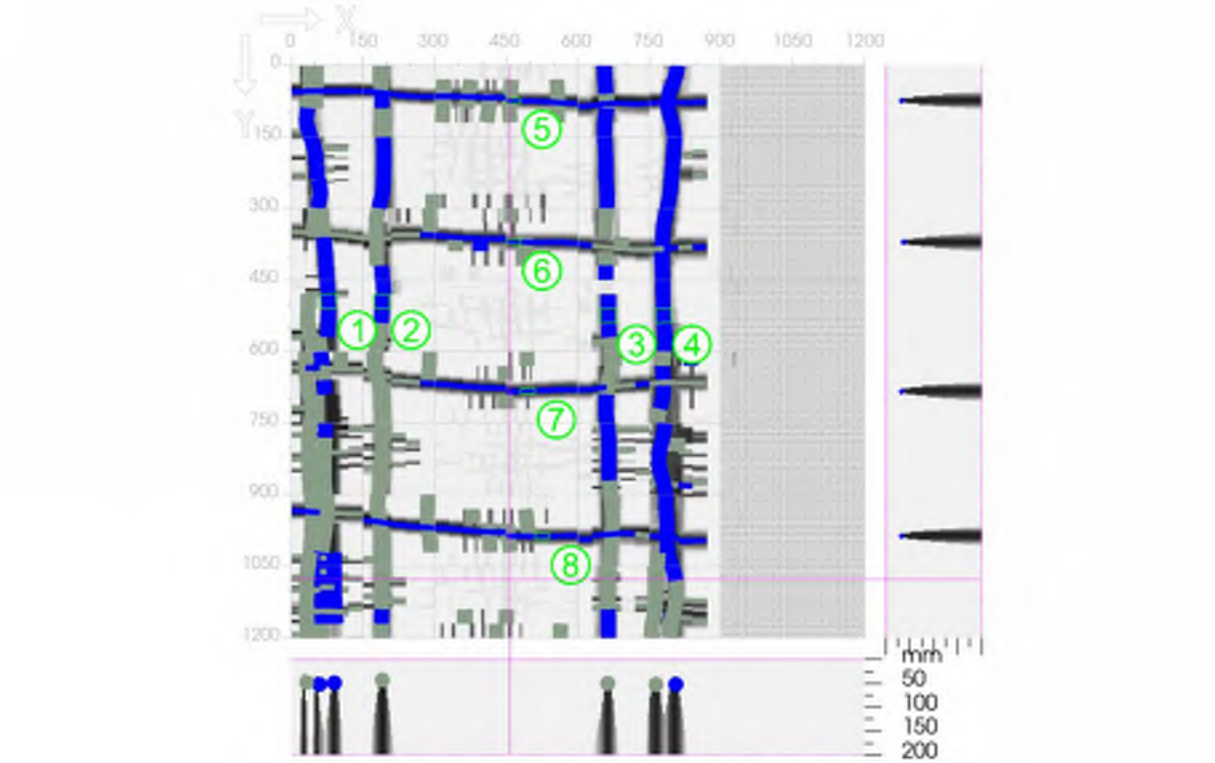
Project name:	CIS - B1 -L	Customer:	CIS Tower
Location:	Level B1L Loc 29 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	94 mm	285 mm	74 mm	32 mm	Vertical	High
2.	213 mm	255 mm	71 mm	32 mm	Vertical	High
3.	694 mm	255 mm	69 mm	32 mm	Vertical	High
4.	830 mm	255 mm	70 mm	32 mm	Vertical	High
5.	495 mm	115 mm	51 mm	12 mm	Horizontal	High
6.	525 mm	384 mm	64 mm	12 mm	Horizontal	High
7.	525 mm	724 mm	67 mm	12 mm	Horizontal	High
8.	555 mm	1025 mm	62 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	30 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-08-16 14:37:27
Comment:	-



x: 458 mm	y: 1077 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

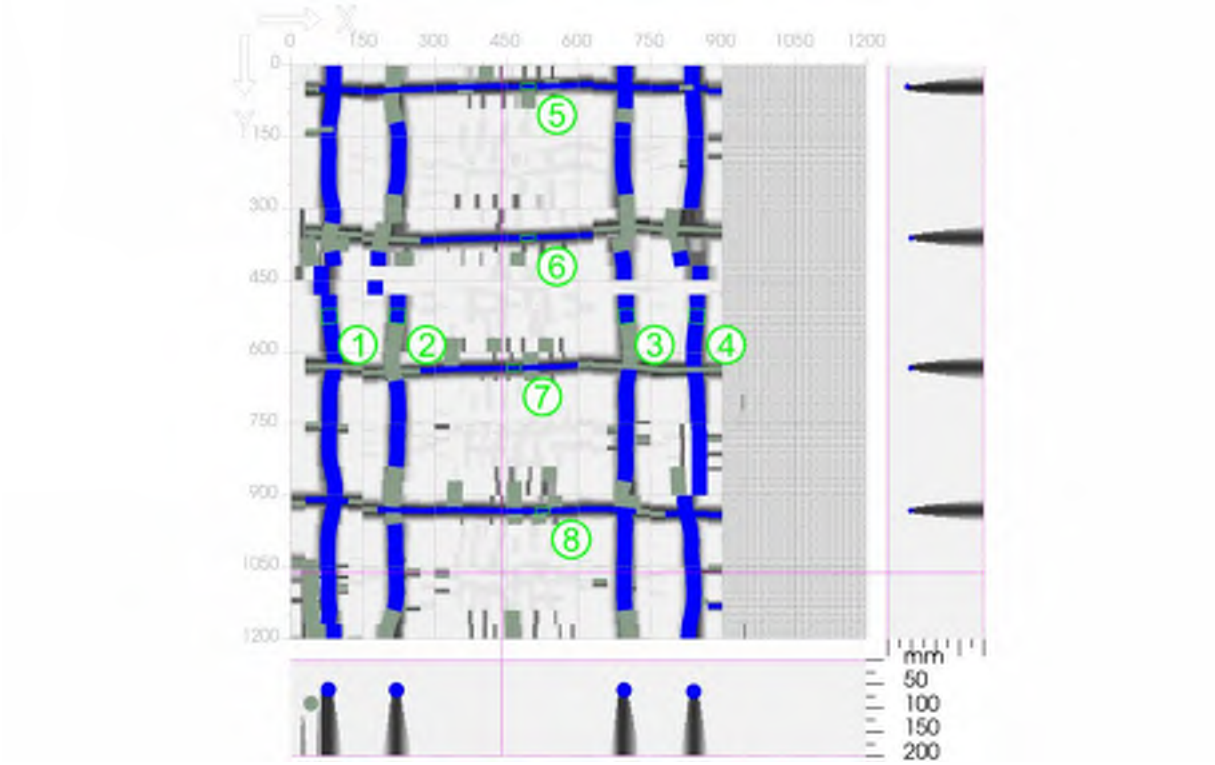
Project name:	CIS - B1 -L	Customer:	CIS Tower
Location:	Level B1L Loc 30 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	78 mm	495 mm	26 mm	32 mm	Vertical	High
2.	191 mm	495 mm	41 mm	32 mm	Vertical	High
3.	663 mm	525 mm	40 mm	32 mm	Vertical	High
4.	779 mm	525 mm	38 mm	32 mm	Vertical	High
5.	465 mm	74 mm	27 mm	12 mm	Horizontal	High
6.	465 mm	371 mm	31 mm	12 mm	Horizontal	High
7.	495 mm	683 mm	28 mm	12 mm	Horizontal	High
8.	525 mm	987 mm	28 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	30 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-08-16 14:32:09
Comment:	-



x: 440 mm	y: 1061 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

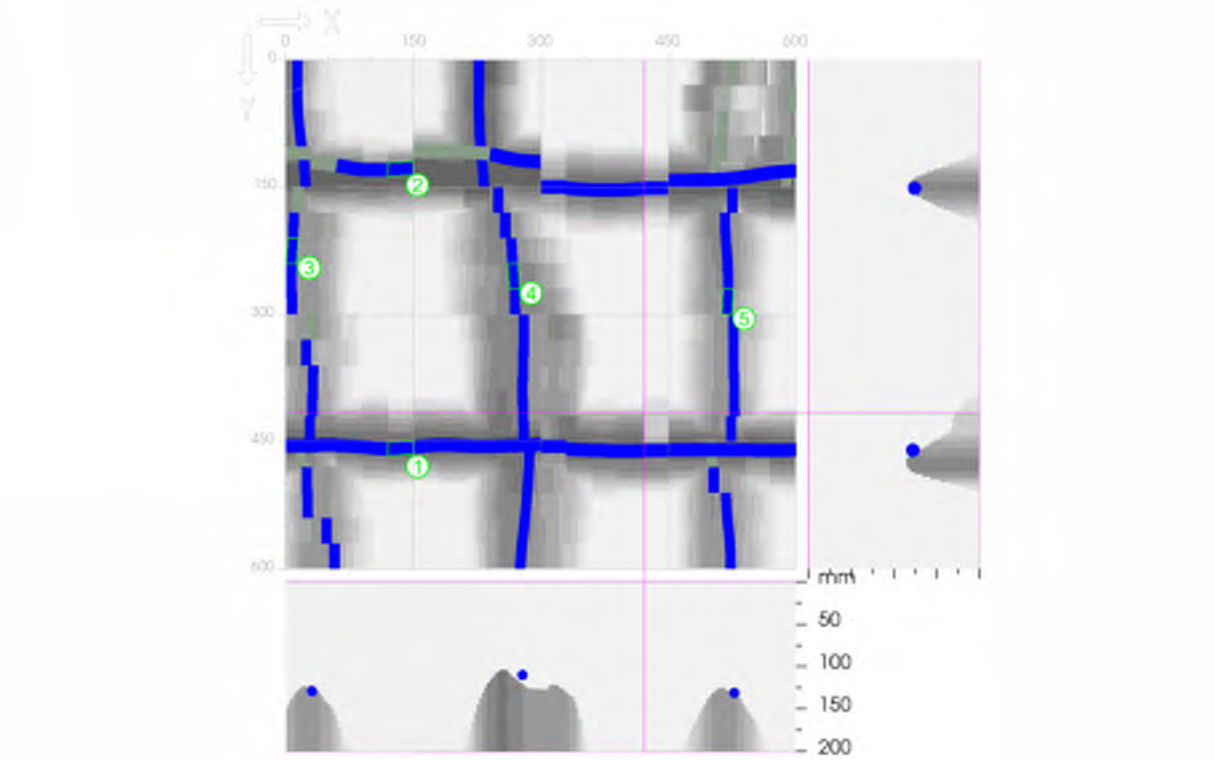
Project name:	CIS - B1 -L	Customer:	CIS Tower
Location:	Level B1L Loc 30 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	80 mm	525 mm	51 mm	32 mm	Vertical	High
2.	223 mm	525 mm	53 mm	32 mm	Vertical	High
3.	699 mm	525 mm	53 mm	32 mm	Vertical	High
4.	848 mm	525 mm	53 mm	32 mm	Vertical	High
5.	495 mm	44 mm	36 mm	12 mm	Horizontal	High
6.	495 mm	361 mm	42 mm	12 mm	Horizontal	High
7.	465 mm	634 mm	42 mm	12 mm	Horizontal	High
8.	525 mm	932 mm	42 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	35.fscan
Serial number:	227190008
Date / Time:	2021-08-16 18:01:42
Comment:	-



x: 421 mm	y: 417 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

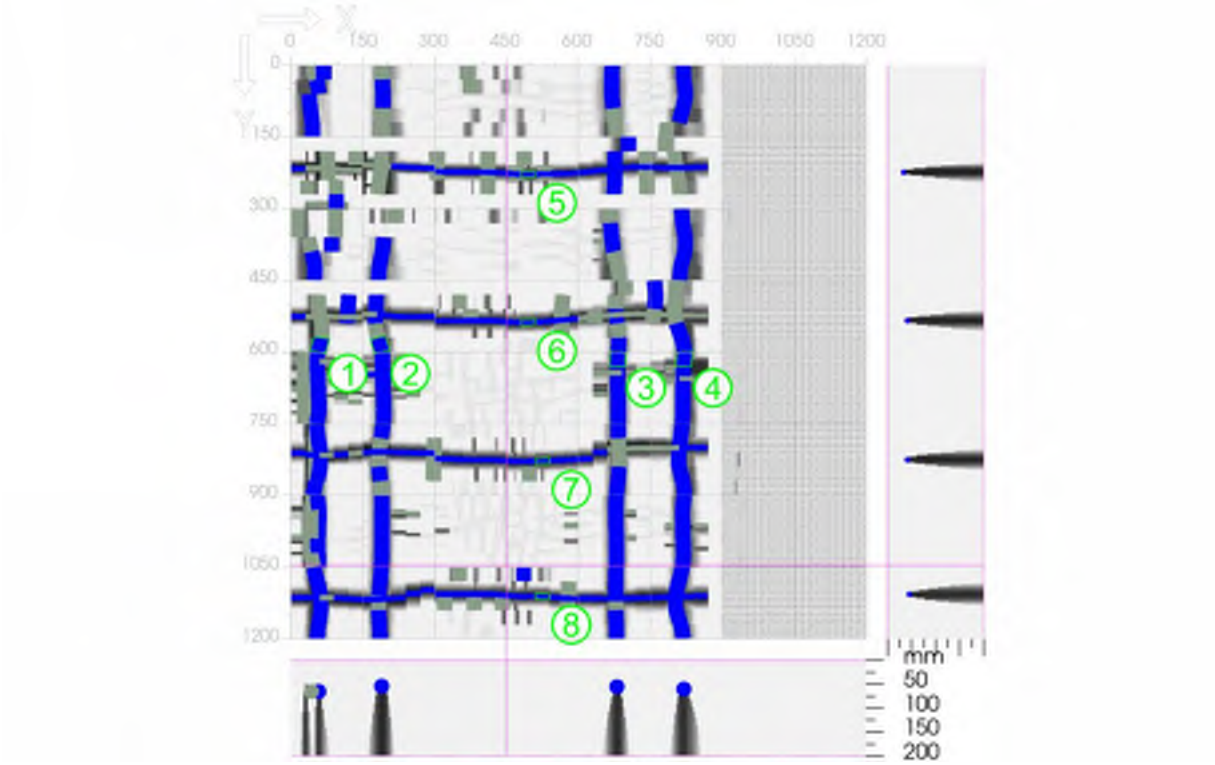
Project name:	CIS - B1 -L	Customer:	CIS Tower
Location:	Level B1L Loc 35	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	16 mm +/- 0 mm	Type:	Input
Ø Vertical:	12 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	135 mm	459 mm	92 mm	16 mm	Horizontal	High
2.	135 mm	128 mm	87 mm	16 mm	Horizontal	High
3.	8 mm	225 mm	128 mm	12 mm	Vertical	High
4.	268 mm	255 mm	112 mm	12 mm	Vertical	High
5.	519 mm	285 mm	124 mm	12 mm	Vertical	High

.Hilti PROFIS Detection Report

Scan File:	36 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-08-16 17:58:33
Comment:	-



x: 449 mm	y: 1047 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

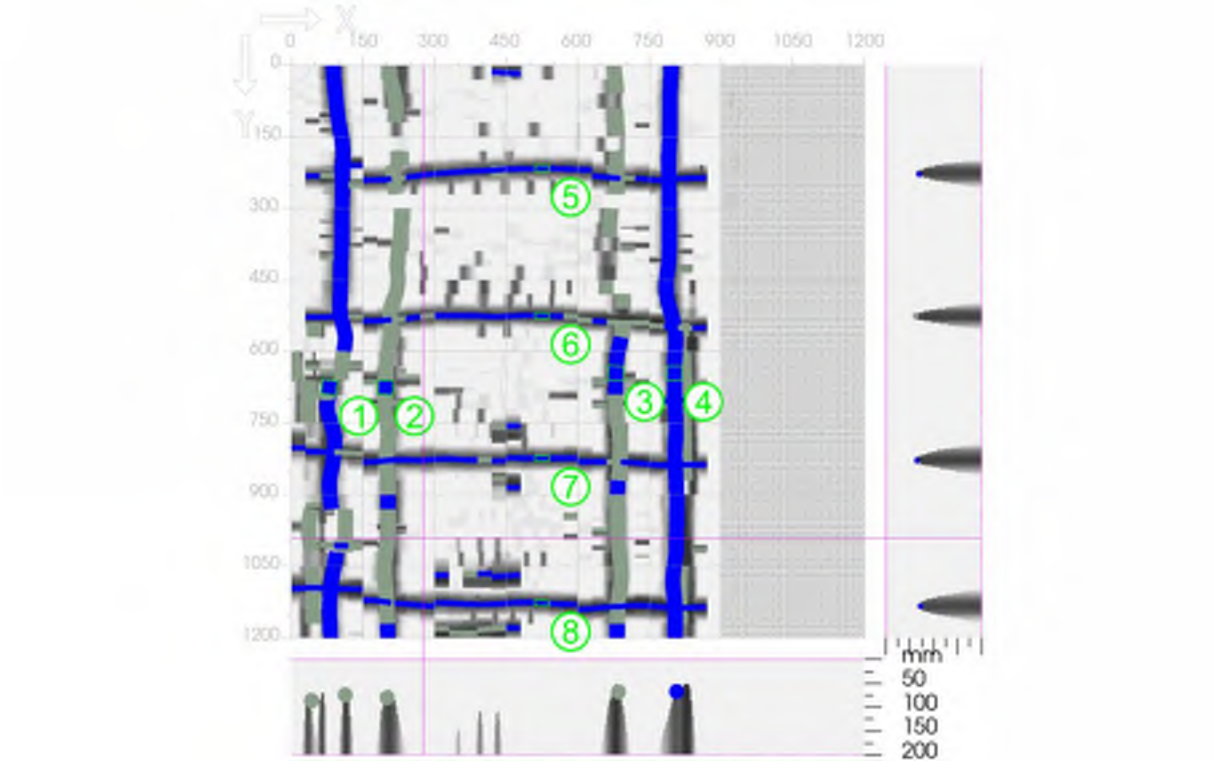
Project name:	CIS - B1 -L	Customer:	CIS Tower
Location:	Level B1L Loc 36 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	59 mm	585 mm	47 mm	32 mm	Vertical	High
2.	189 mm	585 mm	45 mm	32 mm	Vertical	High
3.	681 mm	615 mm	42 mm	32 mm	Vertical	High
4.	820 mm	615 mm	40 mm	32 mm	Vertical	High
5.	495 mm	228 mm	28 mm	12 mm	Horizontal	High
6.	495 mm	538 mm	34 mm	12 mm	Horizontal	High
7.	525 mm	828 mm	35 mm	12 mm	Horizontal	High
8.	525 mm	1110 mm	39 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	36 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-08-16 17:55:09
Comment:	-



x: 276 mm	y: 990 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

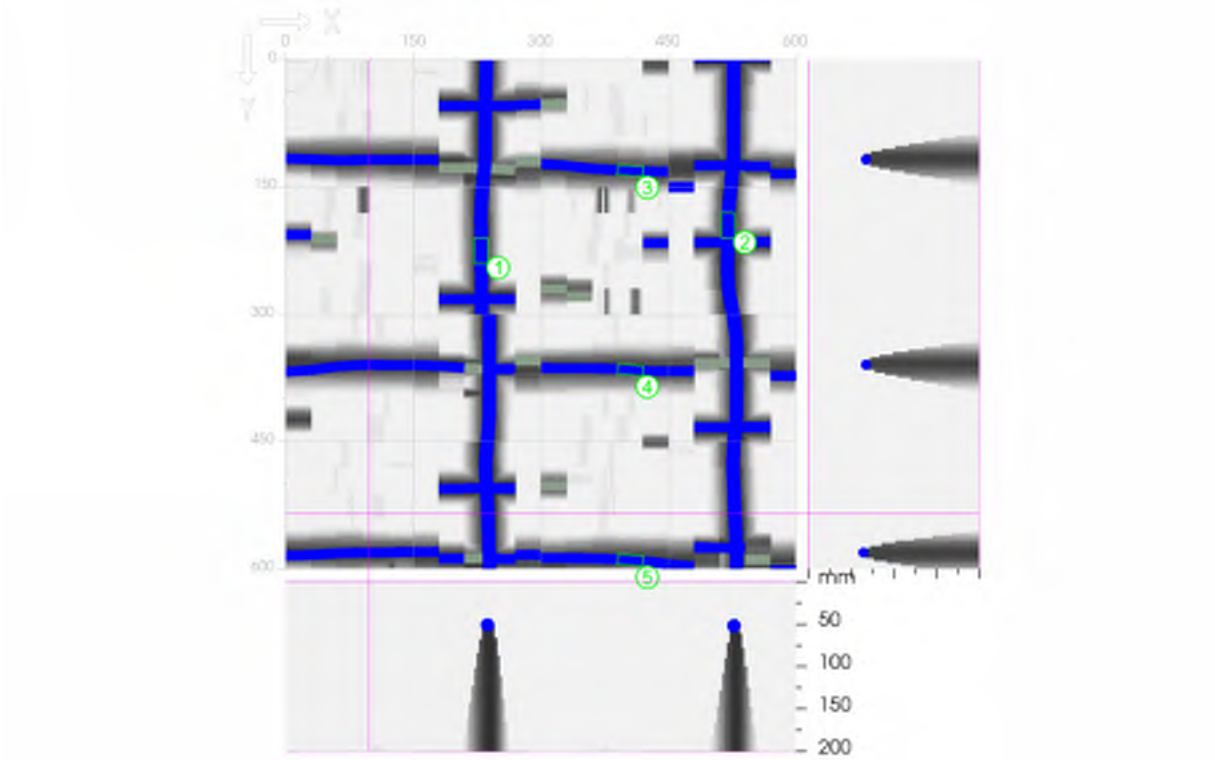
Project name:	CIS - B1 -L	Customer:	CIS Tower
Location:	Level B1L Loc 36 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	81 mm	675 mm	67 mm	32 mm	Vertical	High
2.	198 mm	675 mm	63 mm	32 mm	Vertical	High
3.	680 mm	645 mm	52 mm	32 mm	Vertical	High
4.	803 mm	645 mm	59 mm	32 mm	Vertical	High
5.	525 mm	217 mm	60 mm	12 mm	Horizontal	High
6.	525 mm	525 mm	51 mm	12 mm	Horizontal	High
7.	525 mm	823 mm	57 mm	12 mm	Horizontal	High
8.	525 mm	1127 mm	56 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	43.fscan
Serial number:	227190008
Date / Time:	2021-08-16 14:22:00
Comment:	-



x: 98 mm	y: 535 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

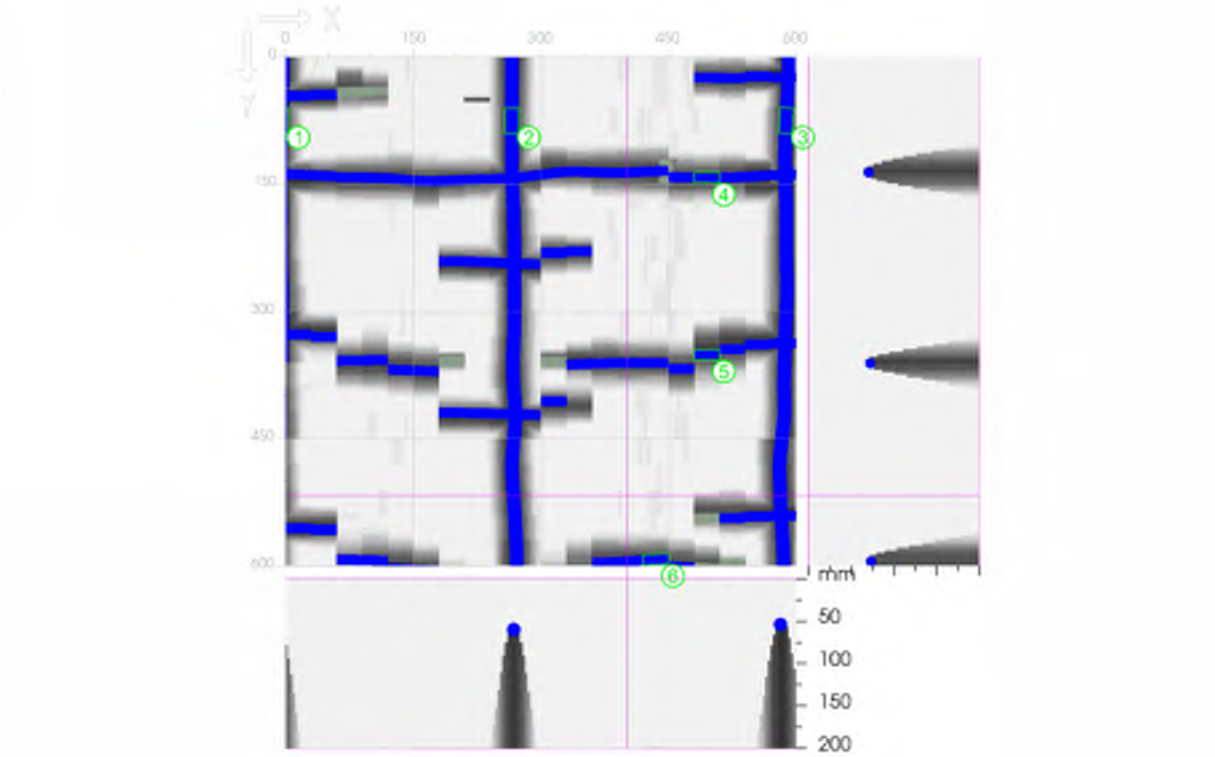
Project name:	CIS - B1 -L	Customer:	CIS Tower
Location:	Level B1L Loc 43	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	230 mm	225 mm	45 mm	16 mm	Vertical	High
2.	520 mm	195 mm	42 mm	16 mm	Vertical	High
3.	405 mm	130 mm	61 mm	12 mm	Horizontal	High
4.	405 mm	365 mm	61 mm	12 mm	Horizontal	High
5.	405 mm	590 mm	60 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	48.fscan
Serial number:	227190008
Date / Time:	2021-08-16 14:17:49
Comment:	-



x: 402 mm	y: 518 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

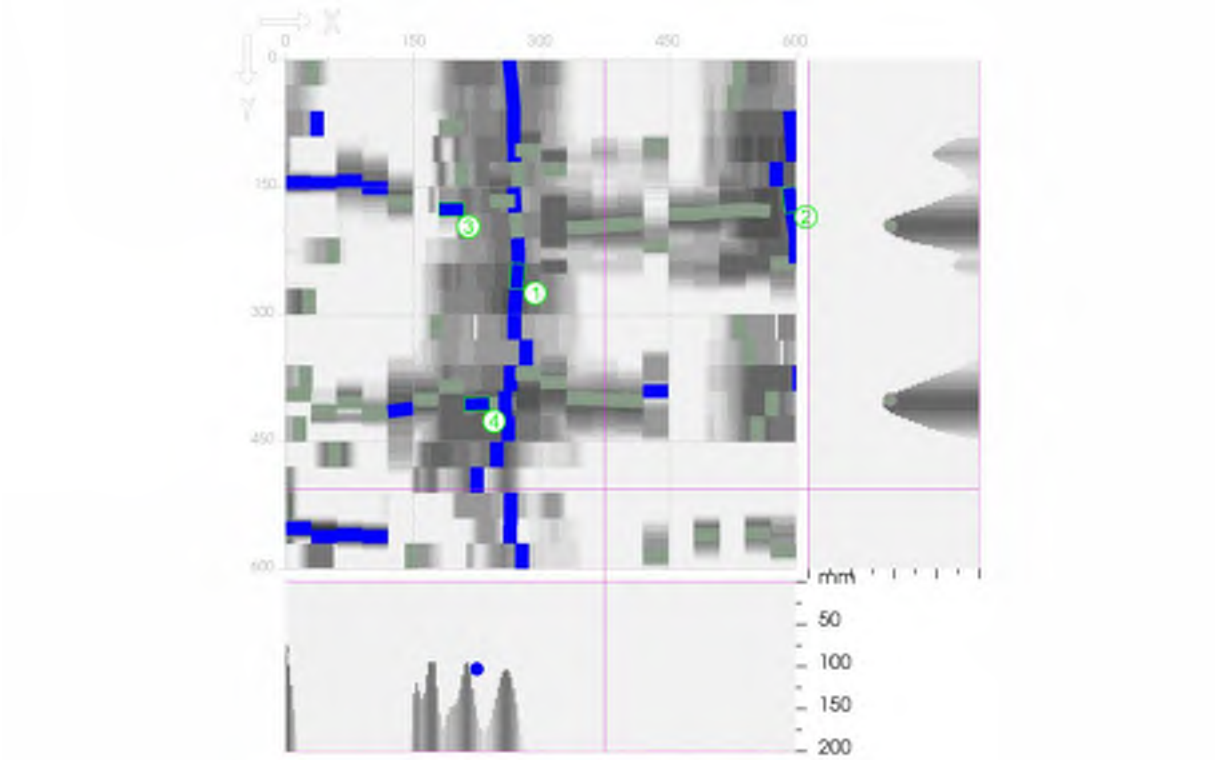
Project name:	CIS - B1 -L	Customer:	CIS Tower
Location:	Level B1L Loc 48	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	-5 mm	75 mm	44 mm	16 mm	Vertical	High
2.	266 mm	75 mm	46 mm	16 mm	Vertical	High
3.	588 mm	75 mm	45 mm	16 mm	Vertical	High
4.	495 mm	142 mm	63 mm	12 mm	Horizontal	High
5.	495 mm	351 mm	61 mm	12 mm	Horizontal	High
6.	435 mm	592 mm	68 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	51.fscan
Serial number:	227190008
Date / Time:	2021-08-16 18:21:08
Comment:	-



x: 375 mm	y: 506 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

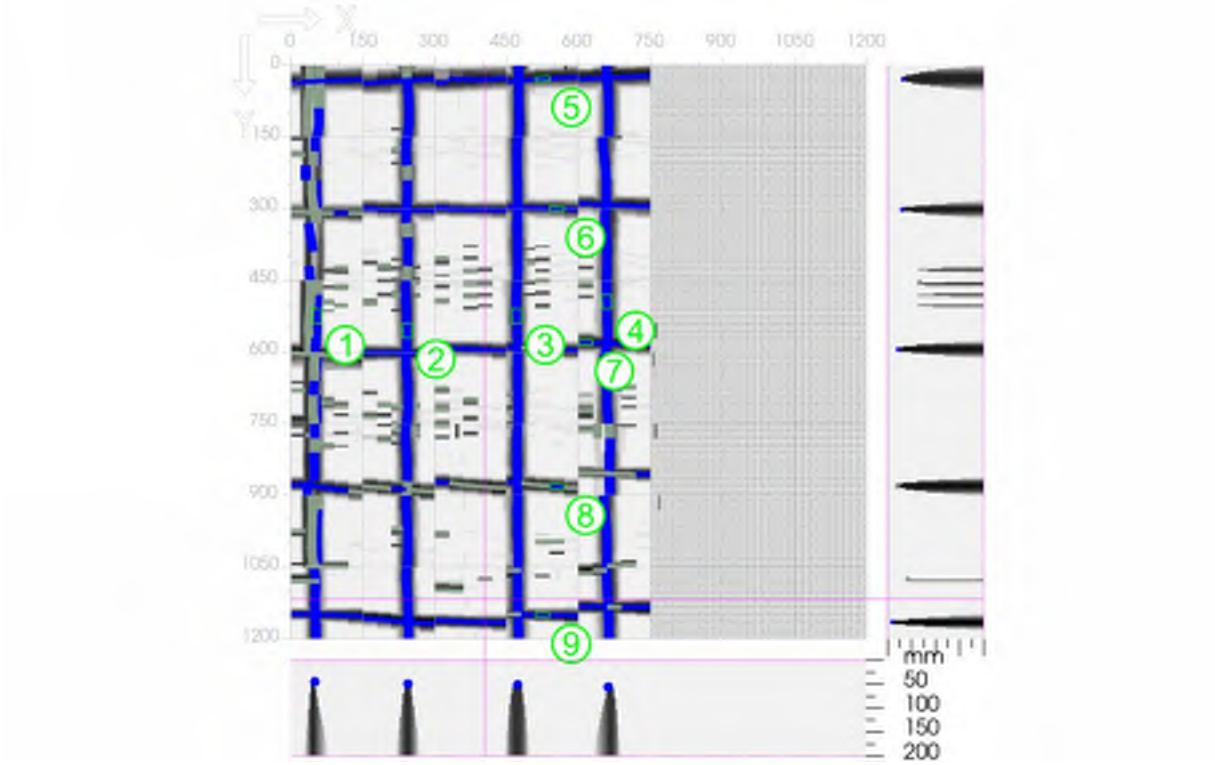
Project name:	CIS - B1 -L	Customer:	CIS Tower
Location:	Level B1L Loc 51	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	16 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	273 mm	255 mm	83 mm	16 mm	Vertical	High
2.	591 mm	165 mm	74 mm	16 mm	Vertical	High
3.	195 mm	177 mm	125 mm	16 mm	Horizontal	High
4.	225 mm	406 mm	85 mm	16 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	54 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-08-16 18:17:07
Comment:	-



x: 404 mm	y: 1117 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

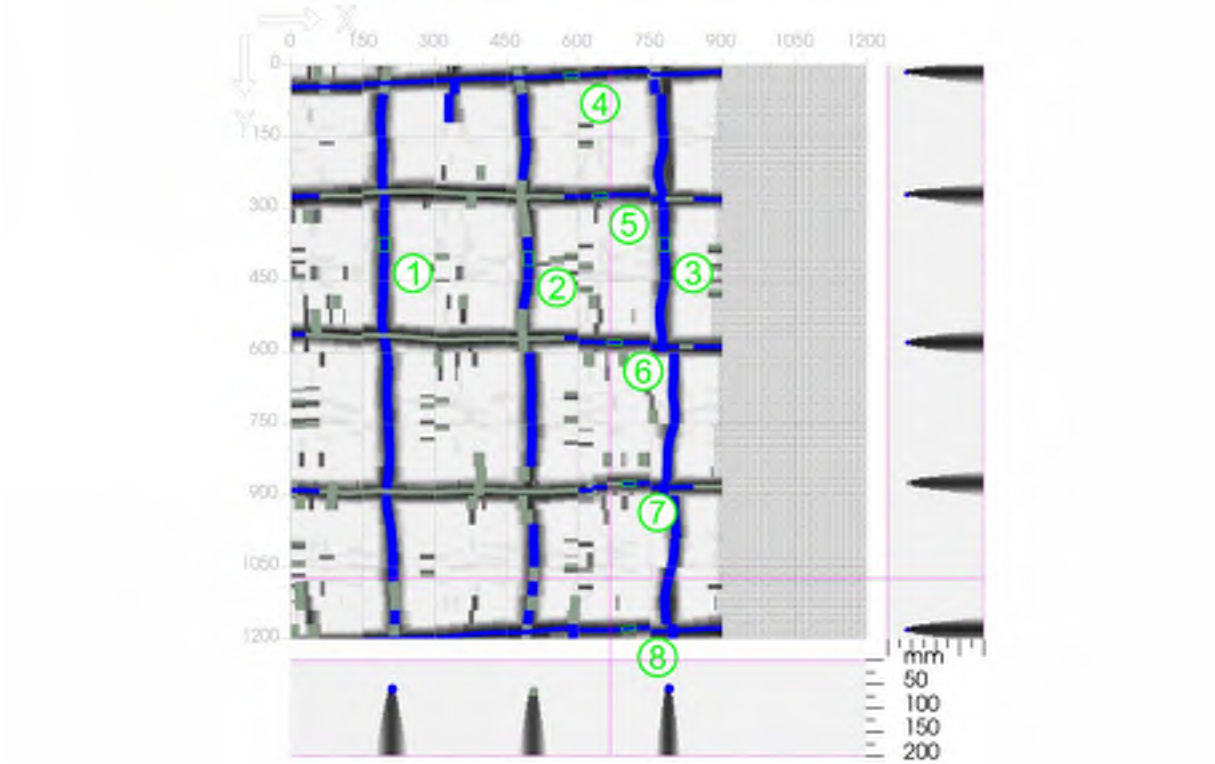
Project name:	CIS - B1 -L	Customer:	CIS Tower
Location:	Level B1L Loc 54 North Face	Object:	Column
User:	BD		
Comment:	Main bar size is 22mm Smooth		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	20 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	54 mm	525 mm	43 mm	20 mm	Vertical	High
2.	242 mm	555 mm	39 mm	20 mm	Vertical	High
3.	471 mm	525 mm	41 mm	20 mm	Vertical	High
4.	659 mm	495 mm	46 mm	20 mm	Vertical	High
5.	525 mm	28 mm	26 mm	10 mm	Horizontal	High
6.	555 mm	300 mm	25 mm	10 mm	Horizontal	High
7.	615 mm	580 mm	26 mm	10 mm	Horizontal	High
8.	555 mm	881 mm	14 mm	10 mm	Horizontal	High
9.	525 mm	1150 mm	2 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	54 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-08-16 18:11:19
Comment:	-



x: 666 mm	y: 1074 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

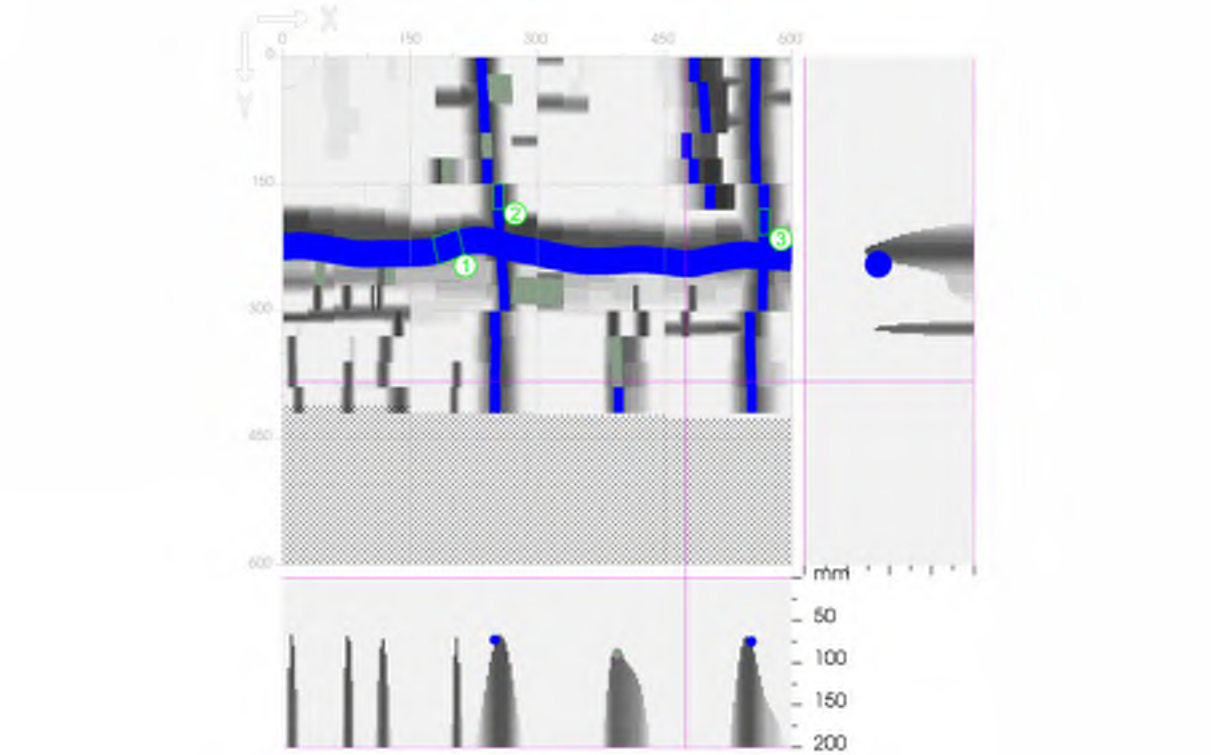
Project name:	CIS - B1 -L	Customer:	CIS Tower
Location:	Level B1L Loc 54 West Face	Object:	Column
User:	BD		
Comment:	Main bar size is 22mm Smooth		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	20 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	195 mm	375 mm	55 mm	20 mm	Vertical	High
2.	495 mm	405 mm	51 mm	20 mm	Vertical	High
3.	779 mm	375 mm	58 mm	20 mm	Vertical	High
4.	585 mm	21 mm	31 mm	10 mm	Horizontal	High
5.	645 mm	273 mm	34 mm	10 mm	Horizontal	High
6.	675 mm	580 mm	36 mm	10 mm	Horizontal	High
7.	705 mm	875 mm	39 mm	10 mm	Horizontal	High
8.	705 mm	1179 mm	36 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	57 - Side.fscan
Serial number:	227190008
Date / Time:	2021-08-17 12:00:38
Comment:	-



x: 474 mm	y: 383 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

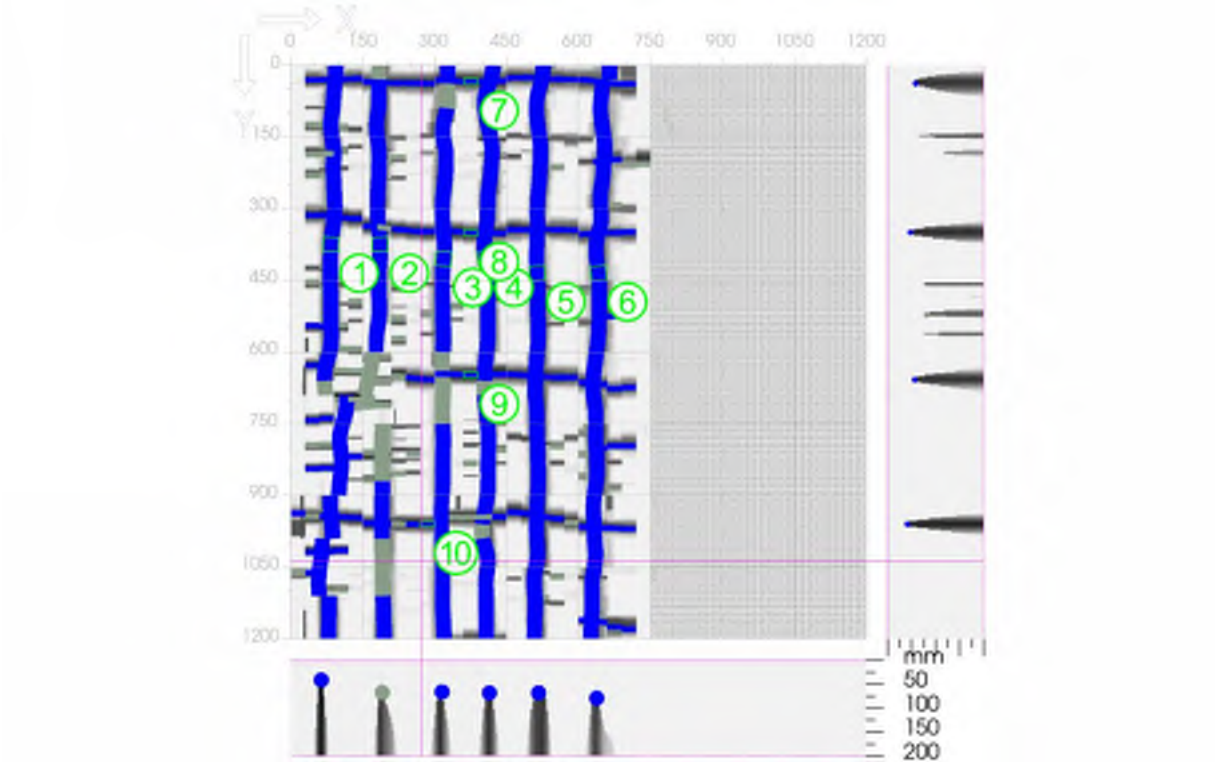
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 57 Side	Object:	Beam Side
User:	BD		
Comment:	-		

Ø Horizontal:	32 mm +/- 0 mm	Type:	Input
Ø Vertical:	12 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	195 mm	227 mm	63 mm	32 mm	Horizontal	High
2.	254 mm	165 mm	53 mm	12 mm	Vertical	High
3.	567 mm	195 mm	61 mm	12 mm	Vertical	High

.Hilti PROFIS Detection Report

Scan File:	57.fscan
Serial number:	227190008
Date / Time:	2021-08-17 11:57:59
Comment:	-



x: 272 mm	y: 1038 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

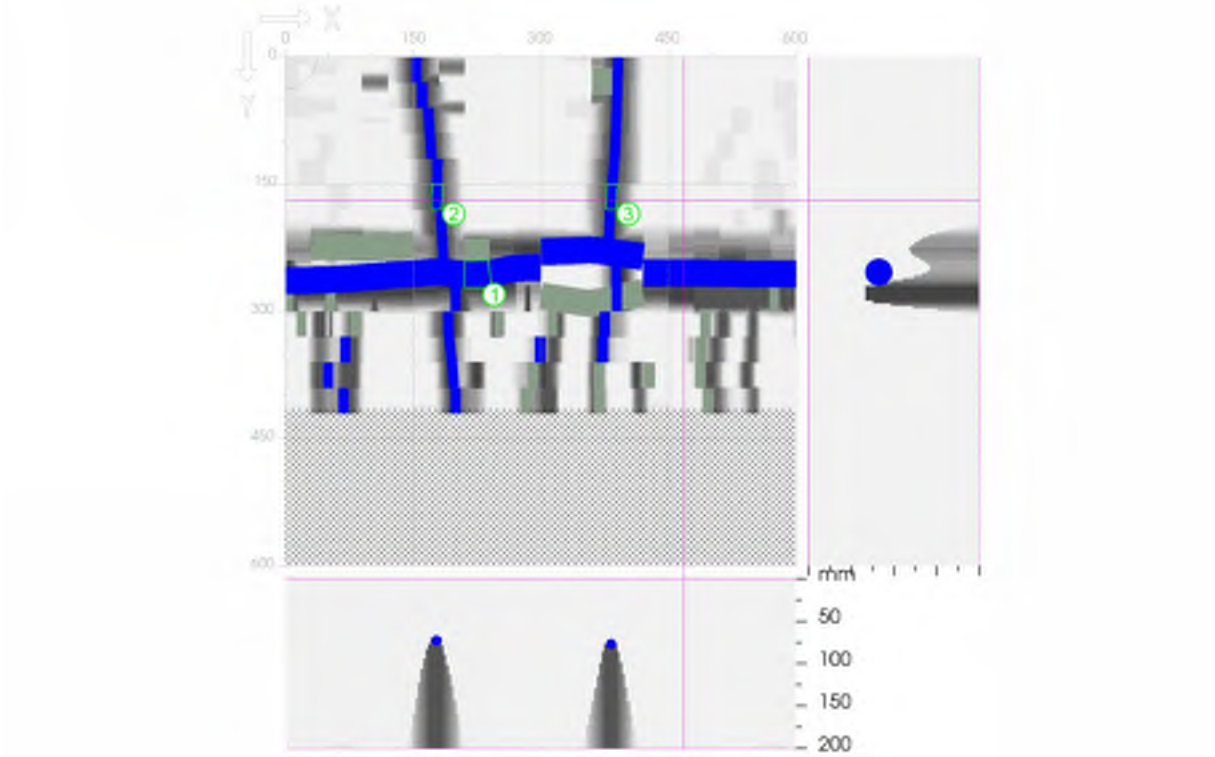
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 57	Object:	Beam
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	83 mm	375 mm	59 mm	32 mm	Vertical	High
2.	188 mm	375 mm	62 mm	32 mm	Vertical	High
3.	320 mm	405 mm	62 mm	32 mm	Vertical	High
4.	405 mm	405 mm	62 mm	32 mm	Vertical	High
5.	514 mm	435 mm	66 mm	32 mm	Vertical	High
6.	642 mm	435 mm	74 mm	32 mm	Vertical	High
7.	375 mm	35 mm	49 mm	12 mm	Horizontal	High
8.	375 mm	351 mm	42 mm	12 mm	Horizontal	High
9.	375 mm	649 mm	43 mm	12 mm	Horizontal	High
10.	285 mm	960 mm	35 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	59 - Side.fscan
Serial number:	227190008
Date / Time:	2021-08-17 11:51:41
Comment:	-



x: 468 mm	y: 169 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

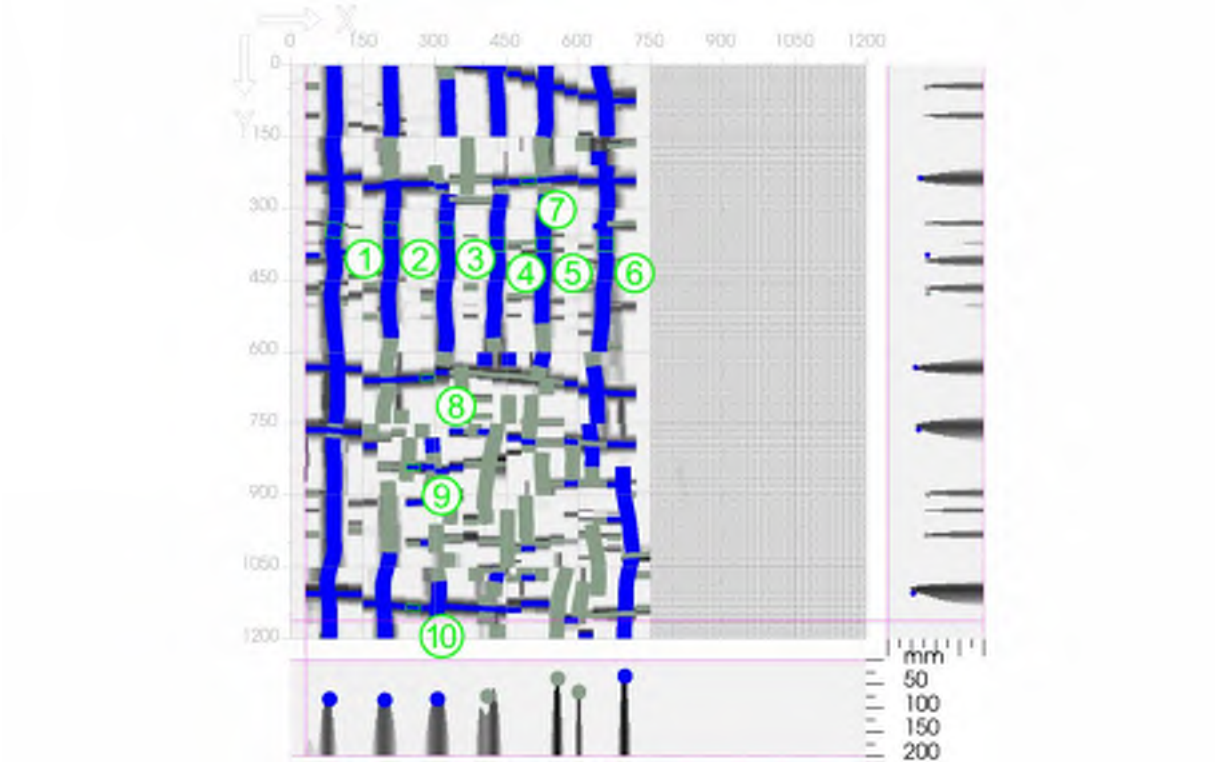
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 59 Side	Object:	Beam Side
User:	BD		
Comment:	-		

Ø Horizontal:	32 mm +/- 0 mm	Type:	Input
Ø Vertical:	12 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	225 mm	260 mm	59 mm	32 mm	Horizontal	High
2.	178 mm	165 mm	67 mm	12 mm	Vertical	High
3.	383 mm	165 mm	71 mm	12 mm	Vertical	High

.Hilti PROFIS Detection Report

Scan File:	59.fscan
Serial number:	227190008
Date / Time:	2021-08-17 11:49:00
Comment:	-



x: 31 mm	y: 1163 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

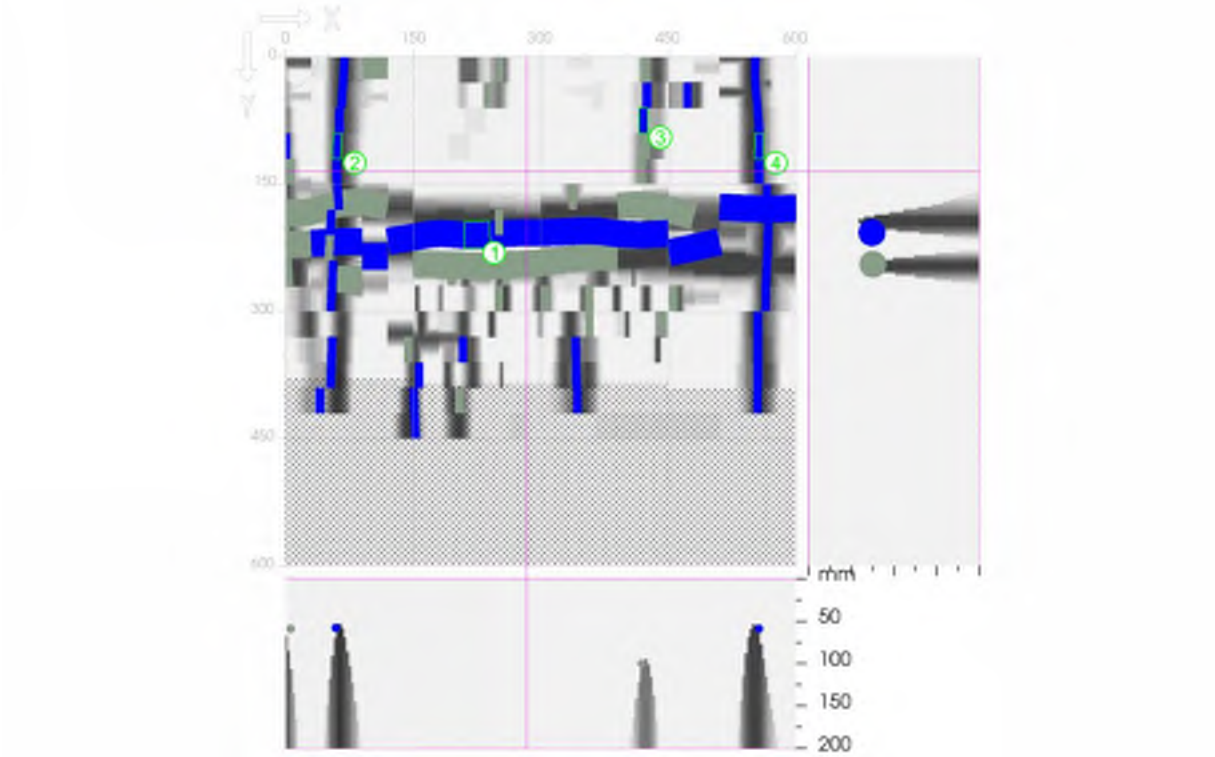
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 59	Object:	Beam
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	93 mm	345 mm	66 mm	32 mm	Vertical	High
2.	209 mm	345 mm	66 mm	32 mm	Vertical	High
3.	326 mm	345 mm	67 mm	32 mm	Vertical	High
4.	430 mm	375 mm	68 mm	32 mm	Vertical	High
5.	528 mm	375 mm	67 mm	32 mm	Vertical	High
6.	657 mm	375 mm	68 mm	32 mm	Vertical	High
7.	495 mm	242 mm	42 mm	12 mm	Horizontal	High
8.	285 mm	654 mm	41 mm	12 mm	Horizontal	High
9.	255 mm	841 mm	13 mm	12 mm	Horizontal	High
10.	255 mm	1134 mm	42 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	77 - Side.fscan
Serial number:	227190008
Date / Time:	2021-08-17 17:02:51
Comment:	-



x: 284 mm	y: 135 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

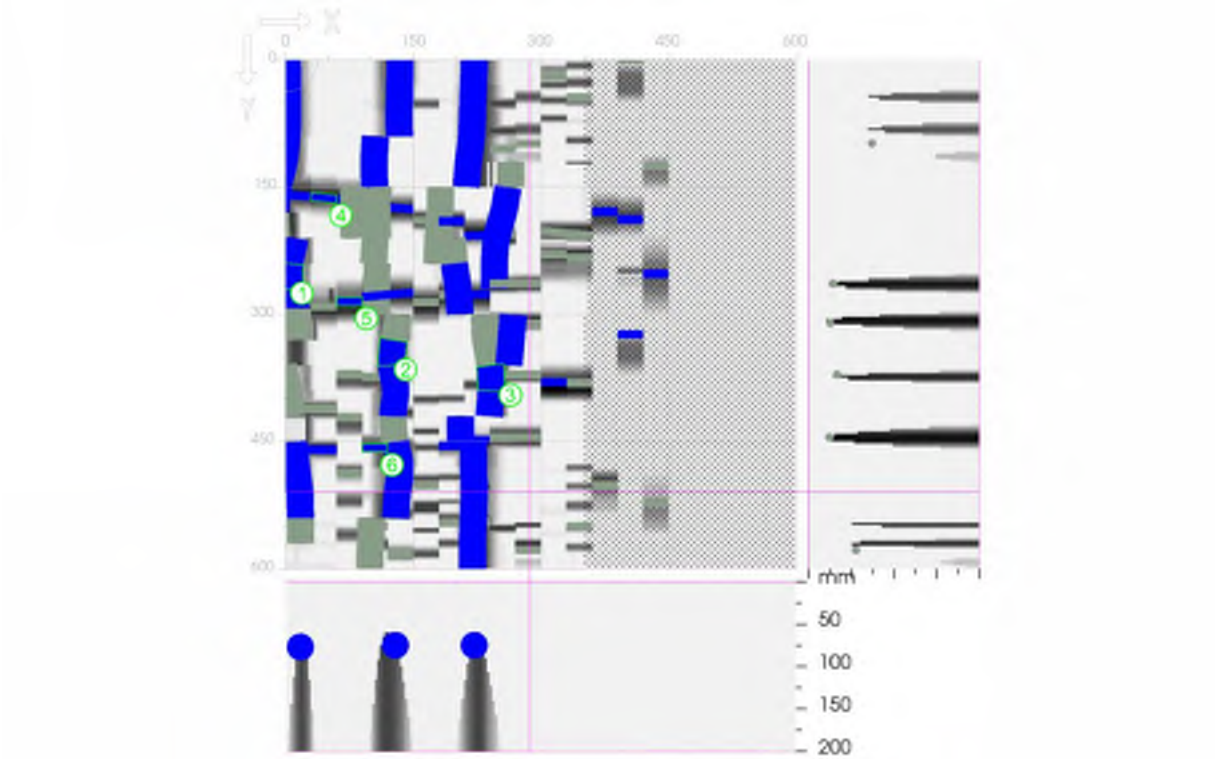
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 77 Side	Object:	Beam Side
User:	BD		
Comment:	-		

Ø Horizontal:	32 mm +/- 0 mm	Type:	Input
Ø Vertical:	10 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	225 mm	211 mm	58 mm	32 mm	Horizontal	High
2.	61 mm	105 mm	55 mm	10 mm	Vertical	High
3.	420 mm	75 mm	140 mm	10 mm	Vertical	High
4.	556 mm	105 mm	54 mm	10 mm	Vertical	High

.Hilti PROFIS Detection Report

Scan File:	77.fscan
Serial number:	227190008
Date / Time:	2021-08-17 17:08:48
Comment:	-



x: 287 mm	y: 509 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

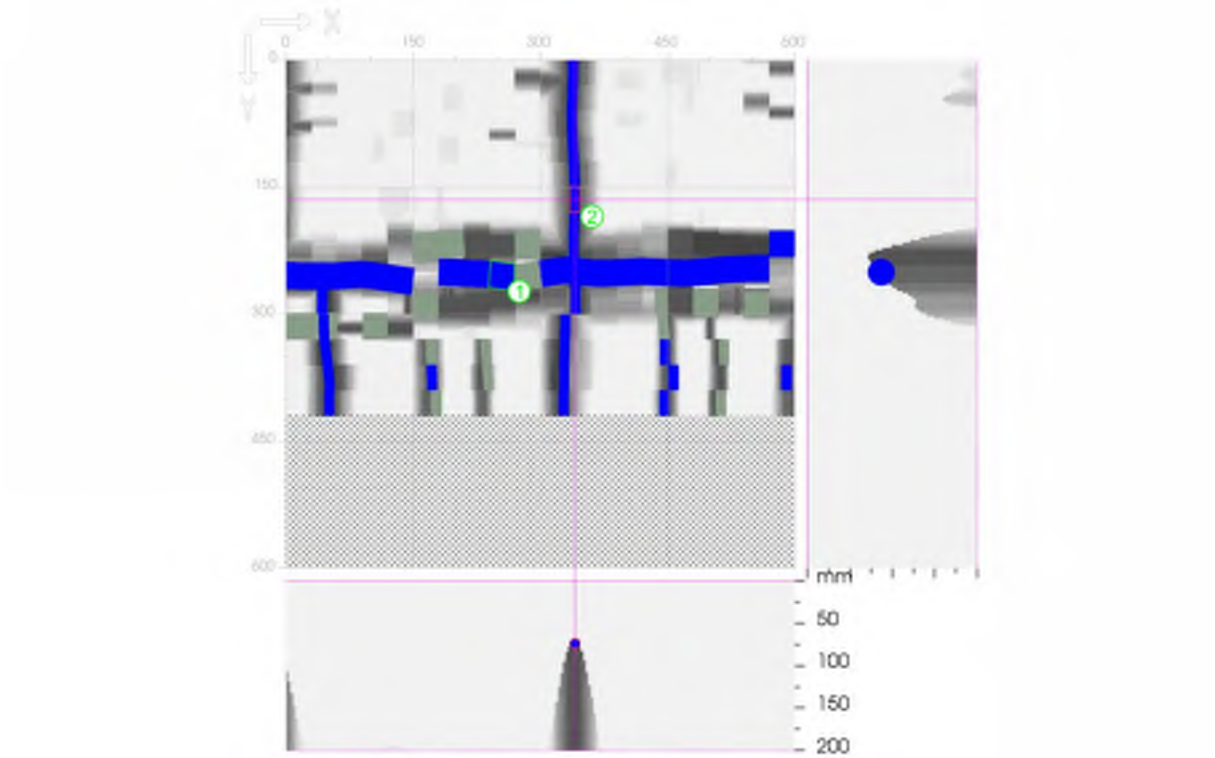
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 77	Object:	Beam
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	-1 mm	255 mm	65 mm	32 mm	Vertical	High
2.	121 mm	345 mm	58 mm	32 mm	Vertical	High
3.	244 mm	375 mm	21 mm	32 mm	Vertical	High
4.	45 mm	163 mm	42 mm	10 mm	Horizontal	High
5.	75 mm	285 mm	41 mm	10 mm	Horizontal	High
6.	105 mm	457 mm	75 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	82 - Side.fscan
Serial number:	227190008
Date / Time:	2021-08-17 14:28:10
Comment:	-



x: 341 mm	y: 165 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

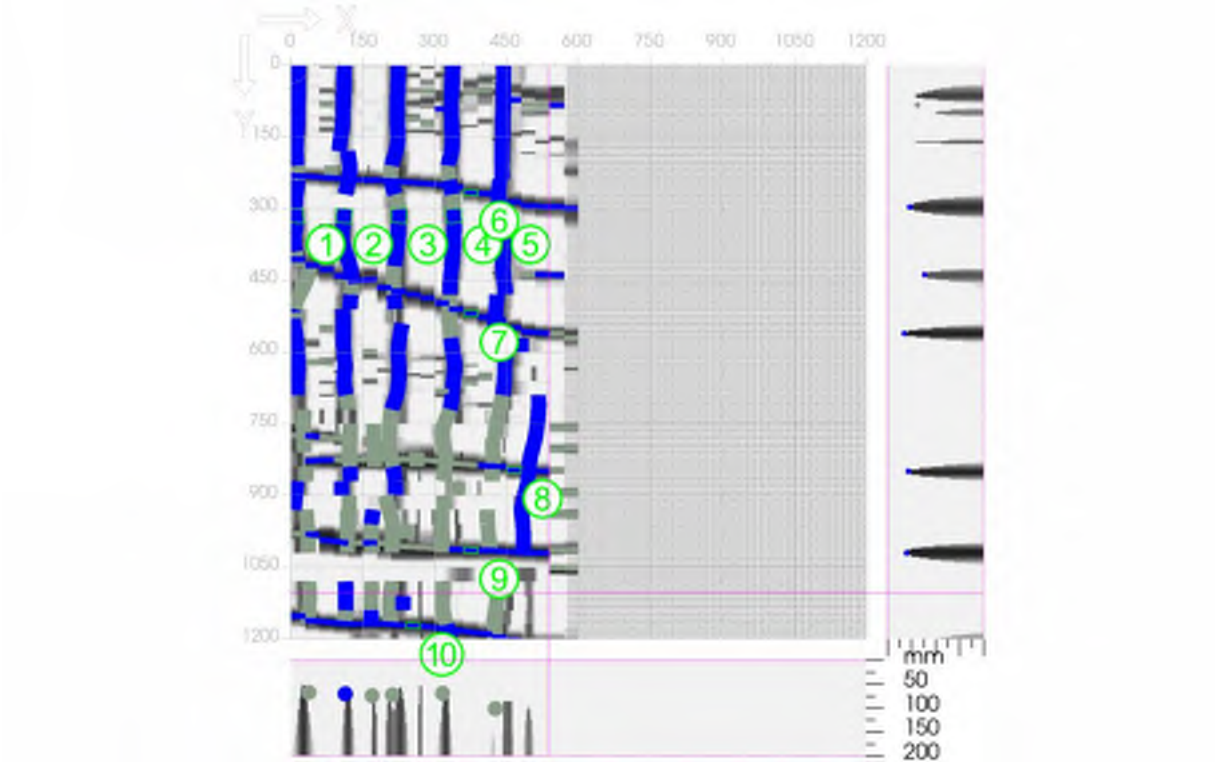
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 82 Side	Object:	Beam Side
User:	BD		
Comment:	-		

Ø Horizontal:	32 mm +/- 0 mm	Type:	Input
Ø Vertical:	12 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	255 mm	253 mm	67 mm	32 mm	Horizontal	High
2.	341 mm	165 mm	68 mm	12 mm	Vertical	High

.Hilti PROFIS Detection Report

Scan File:	82.fscan
Serial number:	227190008
Date / Time:	2021-08-17 14:20:51
Comment:	-



x: 538 mm	y: 1103 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

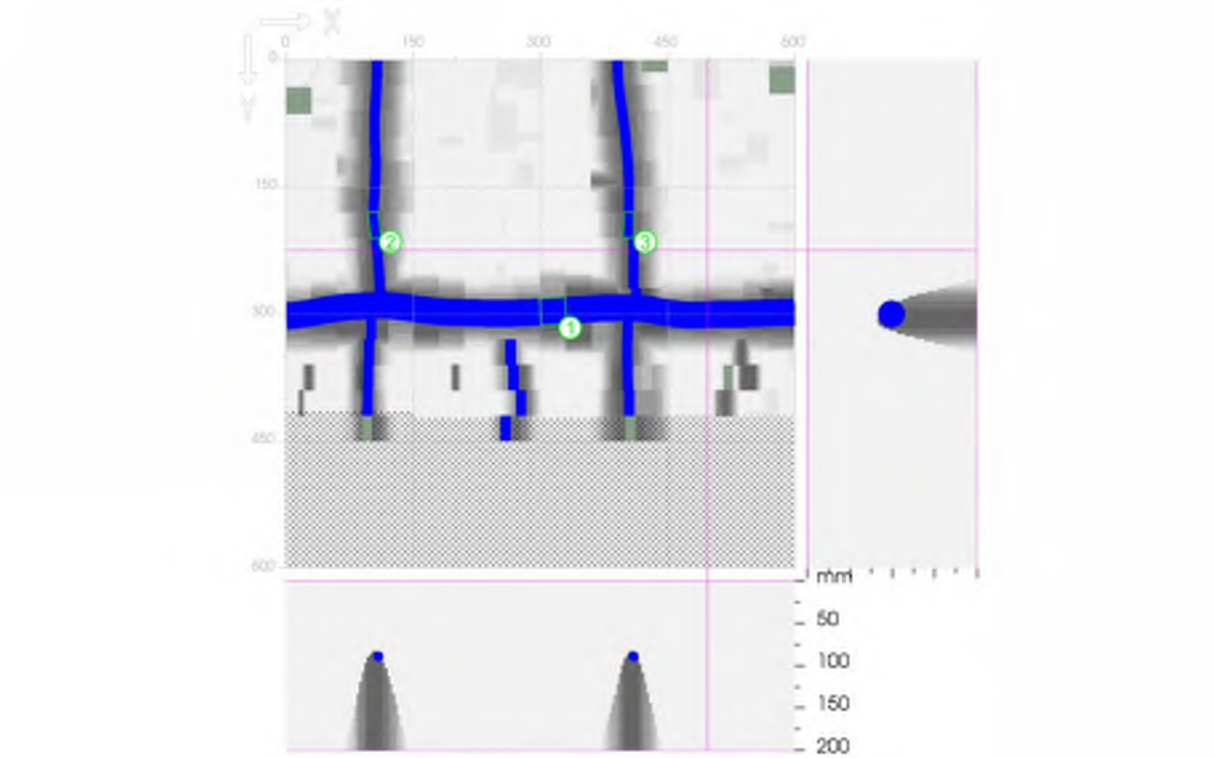
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 82	Object:	Beam
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	13 mm	315 mm	71 mm	32 mm	Vertical	High
2.	112 mm	315 mm	73 mm	32 mm	Vertical	High
3.	226 mm	315 mm	67 mm	32 mm	Vertical	High
4.	341 mm	315 mm	66 mm	32 mm	Vertical	High
5.	440 mm	315 mm	64 mm	32 mm	Vertical	High
6.	375 mm	265 mm	46 mm	12 mm	Horizontal	High
7.	375 mm	519 mm	40 mm	12 mm	Horizontal	High
8.	465 mm	847 mm	33 mm	12 mm	Horizontal	High
9.	375 mm	1015 mm	29 mm	12 mm	Horizontal	High
10.	255 mm	1172 mm	26 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	83 - Side.fscan
Serial number:	227190008
Date / Time:	2021-08-17 14:41:20
Comment:	-



x: 497 mm	y: 225 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

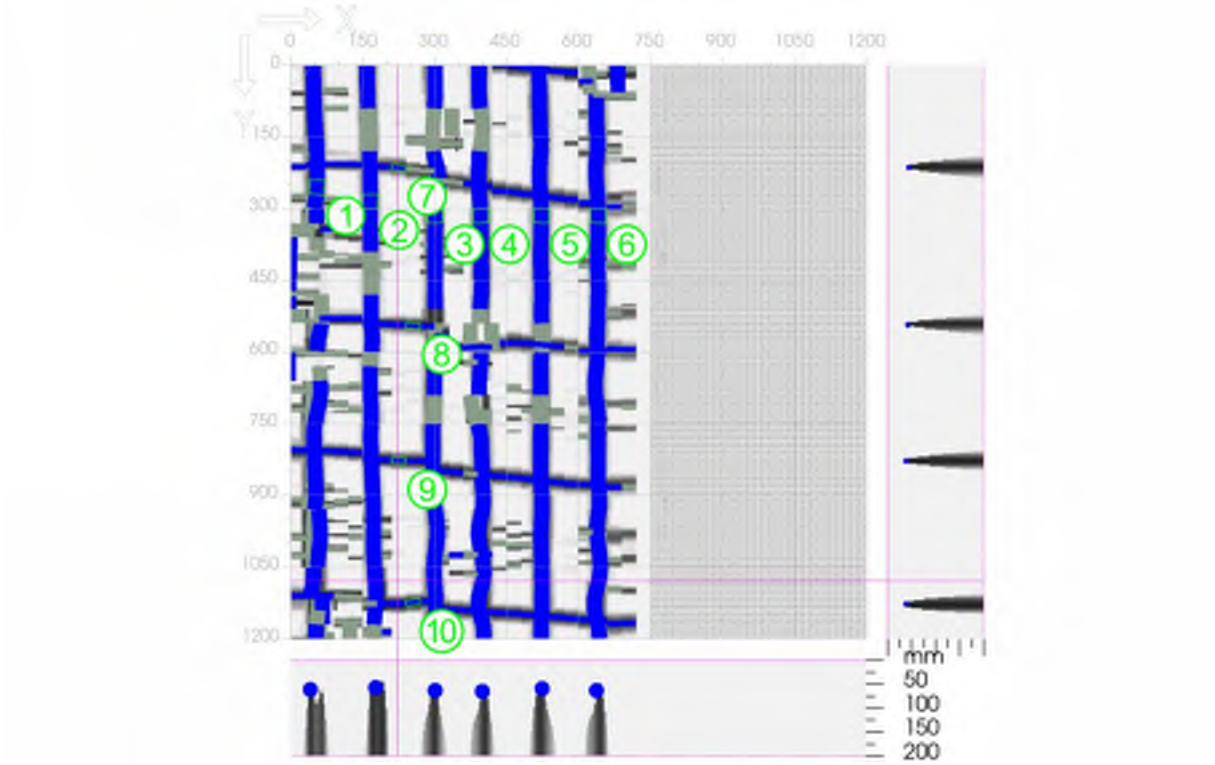
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 83 Side	Object:	Beam Side
User:	BD		
Comment:	-		

Ø Horizontal:	32 mm +/- 0 mm	Type:	Input
Ø Vertical:	12 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	315 mm	296 mm	83 mm	32 mm	Horizontal	High
2.	103 mm	195 mm	84 mm	12 mm	Vertical	High
3.	404 mm	195 mm	84 mm	12 mm	Vertical	High

.Hilti PROFIS Detection Report

Scan File:	83.fscan
Serial number:	227190008
Date / Time:	2021-08-17 14:37:52
Comment:	-



x: 223 mm	y: 1079 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

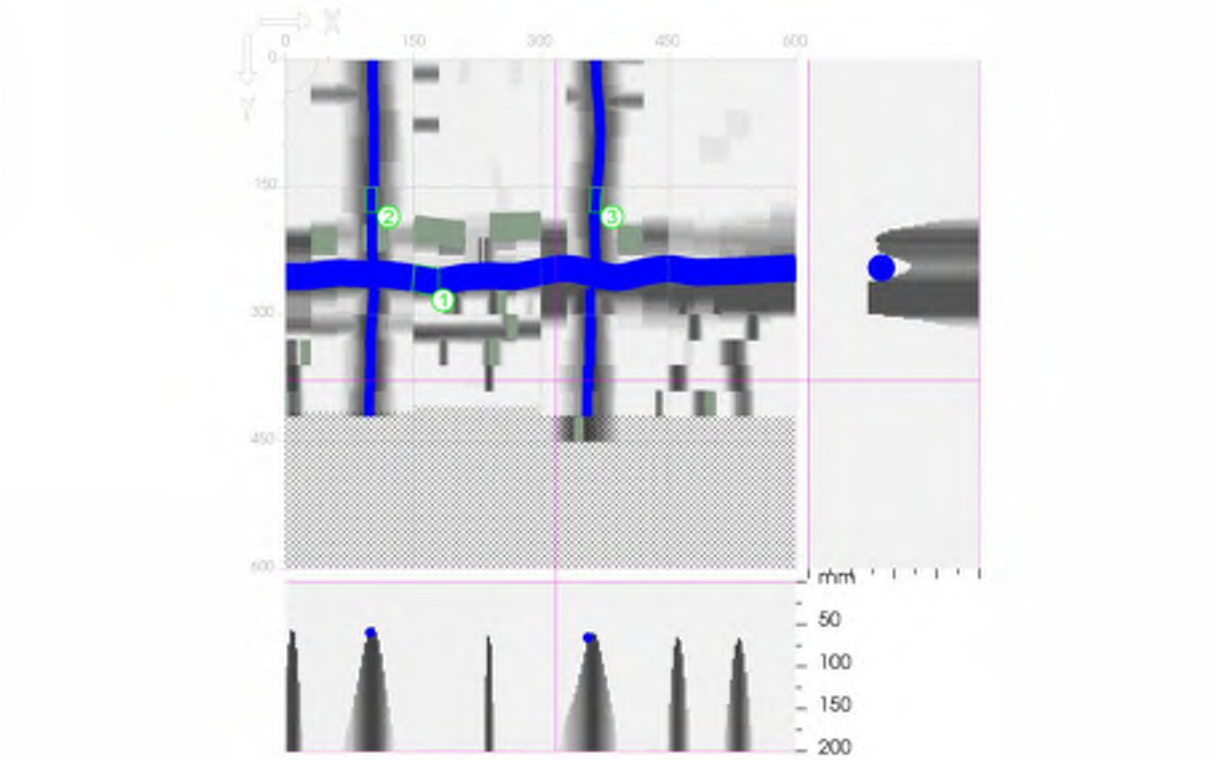
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 83	Object:	Beam
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	54 mm	255 mm	47 mm	32 mm	Vertical	High
2.	166 mm	285 mm	42 mm	32 mm	Vertical	High
3.	302 mm	315 mm	52 mm	32 mm	Vertical	High
4.	396 mm	315 mm	51 mm	32 mm	Vertical	High
5.	522 mm	315 mm	48 mm	32 mm	Vertical	High
6.	641 mm	315 mm	54 mm	32 mm	Vertical	High
7.	225 mm	214 mm	38 mm	12 mm	Horizontal	High
8.	255 mm	545 mm	36 mm	12 mm	Horizontal	High
9.	225 mm	828 mm	32 mm	12 mm	Horizontal	High
10.	255 mm	1124 mm	32 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	88 - Side.fscan
Serial number:	227190008
Date / Time:	2021-08-17 14:23:29
Comment:	-



x: 317 mm	y: 378 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

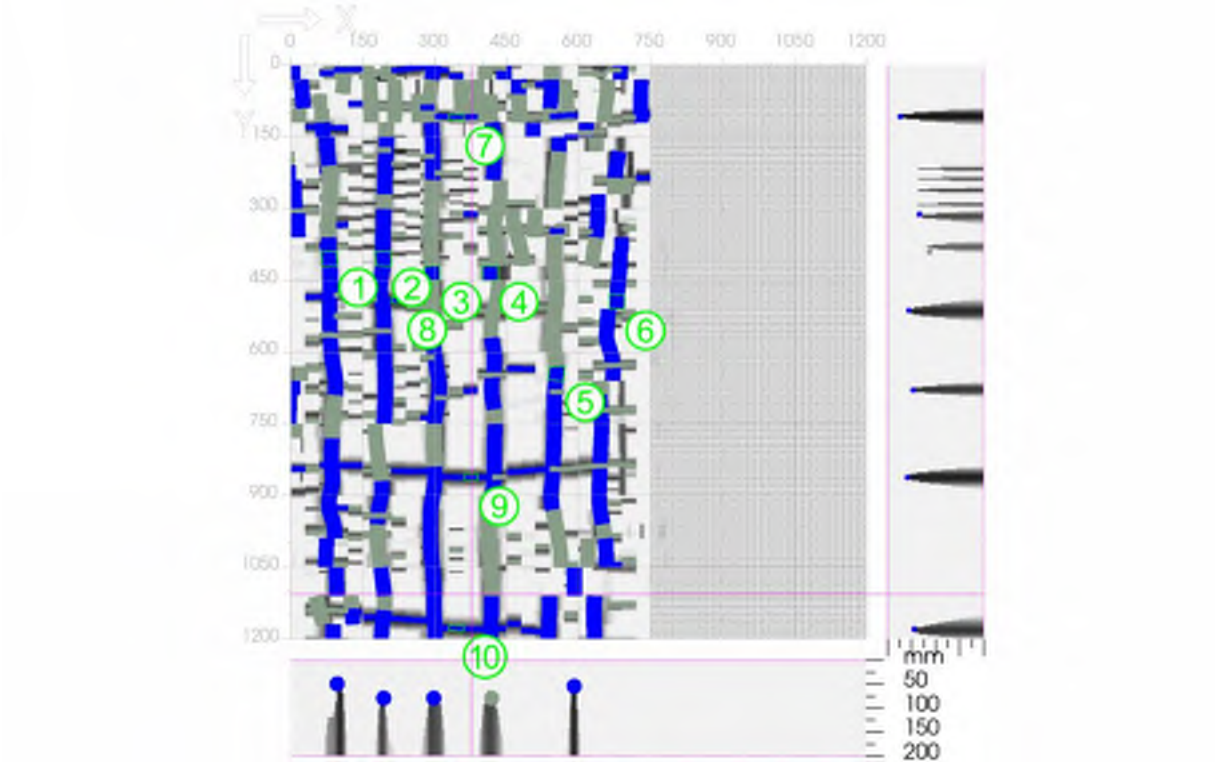
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 88 Side	Object:	Beam Side
User:	BD		
Comment:	-		

Ø Horizontal:	32 mm +/- 0 mm	Type:	Input
Ø Vertical:	12 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	165 mm	263 mm	66 mm	32 mm	Horizontal	High
2.	101 mm	165 mm	80 mm	12 mm	Vertical	High
3.	364 mm	165 mm	72 mm	12 mm	Vertical	High

.Hilti PROFIS Detection Report

Scan File:	88.fscan
Serial number:	227190008
Date / Time:	2021-08-17 14:05:15
Comment:	-



x: 377 mm	y: 1106 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

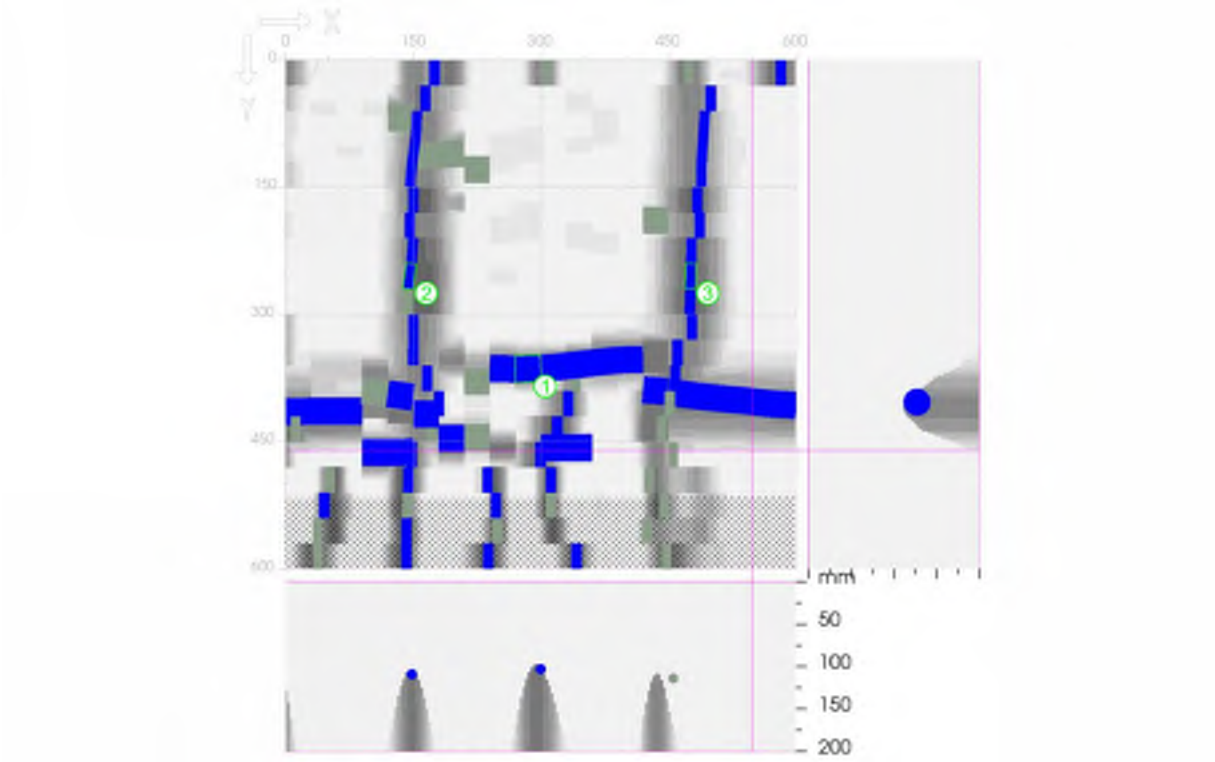
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 88	Object:	Beam
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	80 mm	405 mm	53 mm	32 mm	Vertical	High
2.	193 mm	405 mm	53 mm	32 mm	Vertical	High
3.	295 mm	435 mm	55 mm	32 mm	Vertical	High
4.	416 mm	435 mm	56 mm	32 mm	Vertical	High
5.	554 mm	645 mm	56 mm	32 mm	Vertical	High
6.	680 mm	495 mm	28 mm	32 mm	Vertical	High
7.	345 mm	109 mm	25 mm	12 mm	Horizontal	High
8.	225 mm	493 mm	44 mm	12 mm	Horizontal	High
9.	375 mm	863 mm	35 mm	12 mm	Horizontal	High
10.	345 mm	1177 mm	48 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	93 - Side.fscan
Serial number:	227190008
Date / Time:	2021-08-17 14:25:45
Comment:	-



x: 548 mm	y: 461 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

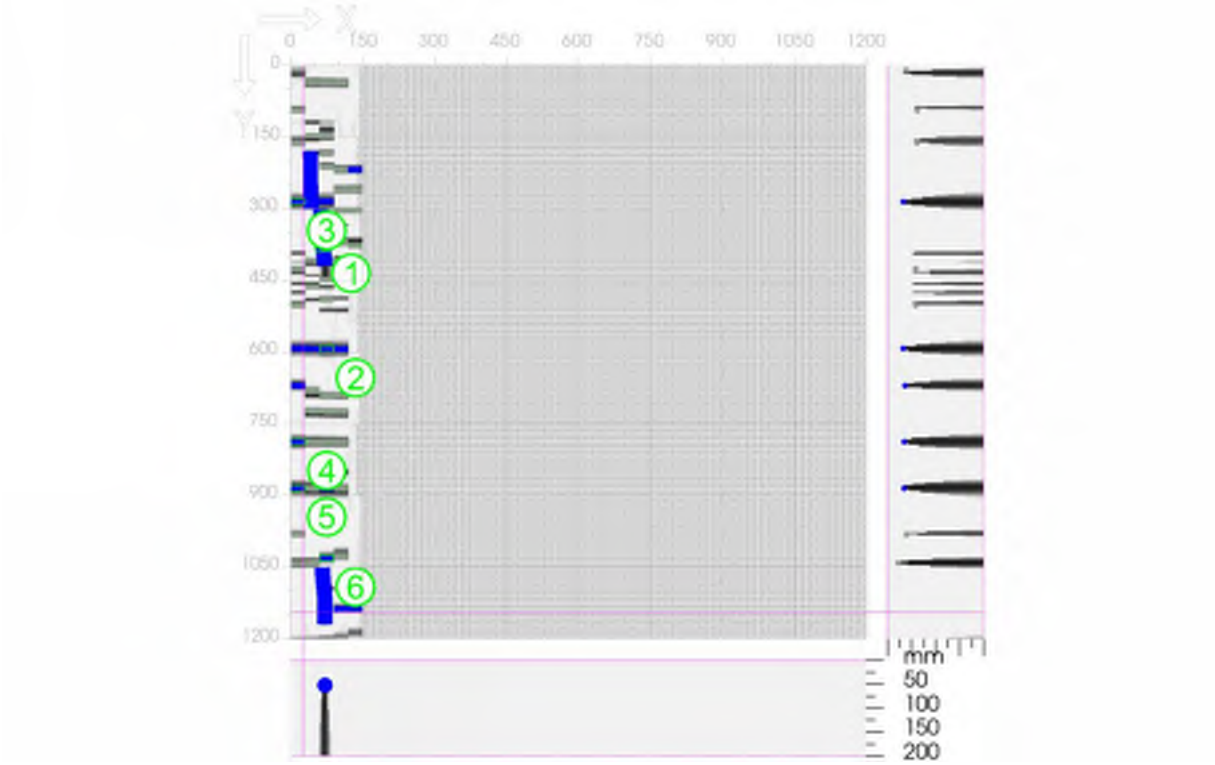
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 93 Side	Object:	Beam Side
User:	BD		
Comment:	-		

Ø Horizontal:	32 mm +/- 0 mm	Type:	Input
Ø Vertical:	12 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	285 mm	365 mm	89 mm	32 mm	Horizontal	High
2.	145 mm	255 mm	90 mm	12 mm	Vertical	High
3.	476 mm	255 mm	93 mm	12 mm	Vertical	High

.Hilti PROFIS Detection Report

Scan File:	93.fscan
Serial number:	227190008
Date / Time:	2021-08-17 14:10:44
Comment:	-



x: 26 mm	y: 1144 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

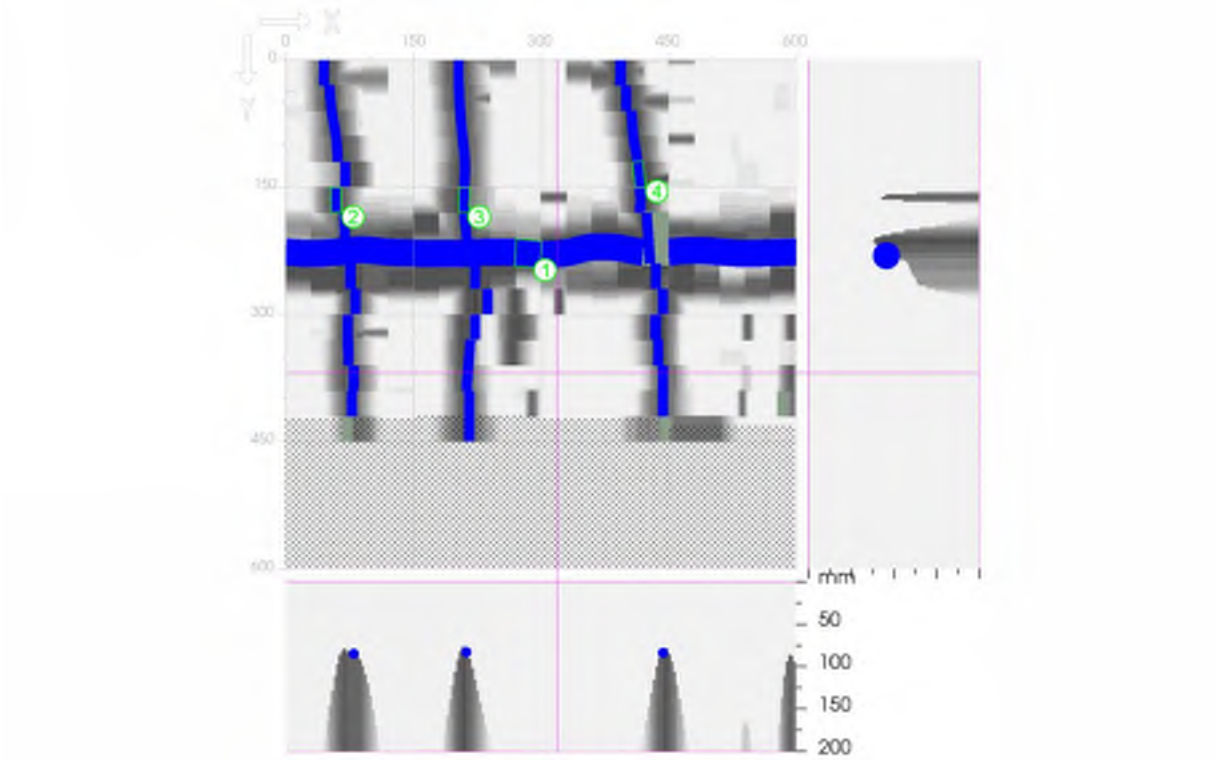
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 93	Object:	Beam
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	66 mm	375 mm	43 mm	32 mm	Vertical	High
2.	75 mm	594 mm	32 mm	12 mm	Horizontal	High
3.	15 mm	286 mm	26 mm	12 mm	Horizontal	High
4.	15 mm	788 mm	28 mm	12 mm	Horizontal	High
5.	15 mm	885 mm	28 mm	12 mm	Horizontal	High
6.	75 mm	1031 mm	41 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	94 - Side.fscan
Serial number:	227190008
Date / Time:	2021-08-17 14:52:55
Comment:	-



x: 319 mm	y: 369 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

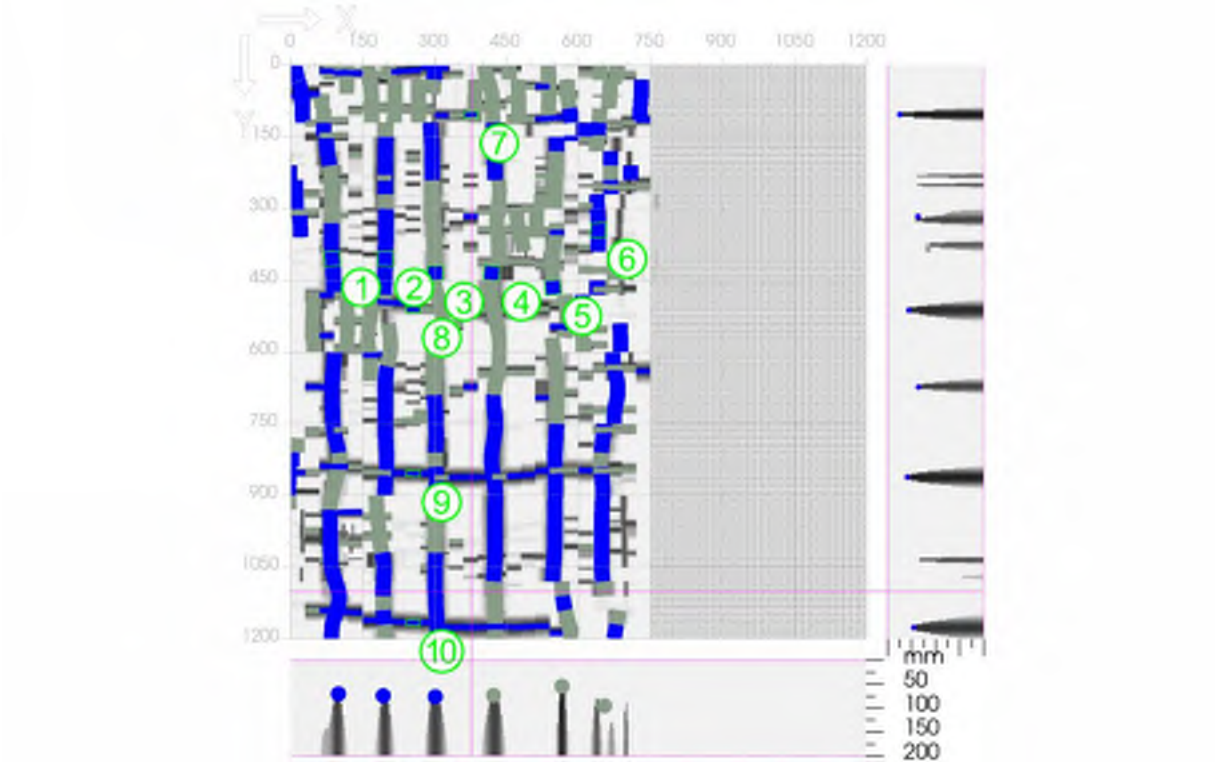
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 94 Side	Object:	Beam Side
User:	BD		
Comment:	-		

Ø Horizontal:	32 mm +/- 0 mm	Type:	Input
Ø Vertical:	12 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	285 mm	228 mm	67 mm	32 mm	Horizontal	High
2.	59 mm	165 mm	78 mm	12 mm	Vertical	High
3.	207 mm	165 mm	74 mm	12 mm	Vertical	High
4.	416 mm	135 mm	65 mm	12 mm	Vertical	High

.Hilti PROFIS Detection Report

Scan File:	94.fscan
Serial number:	227190008
Date / Time:	2021-08-17 15:21:33
Comment:	-



x: 377 mm	y: 1101 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

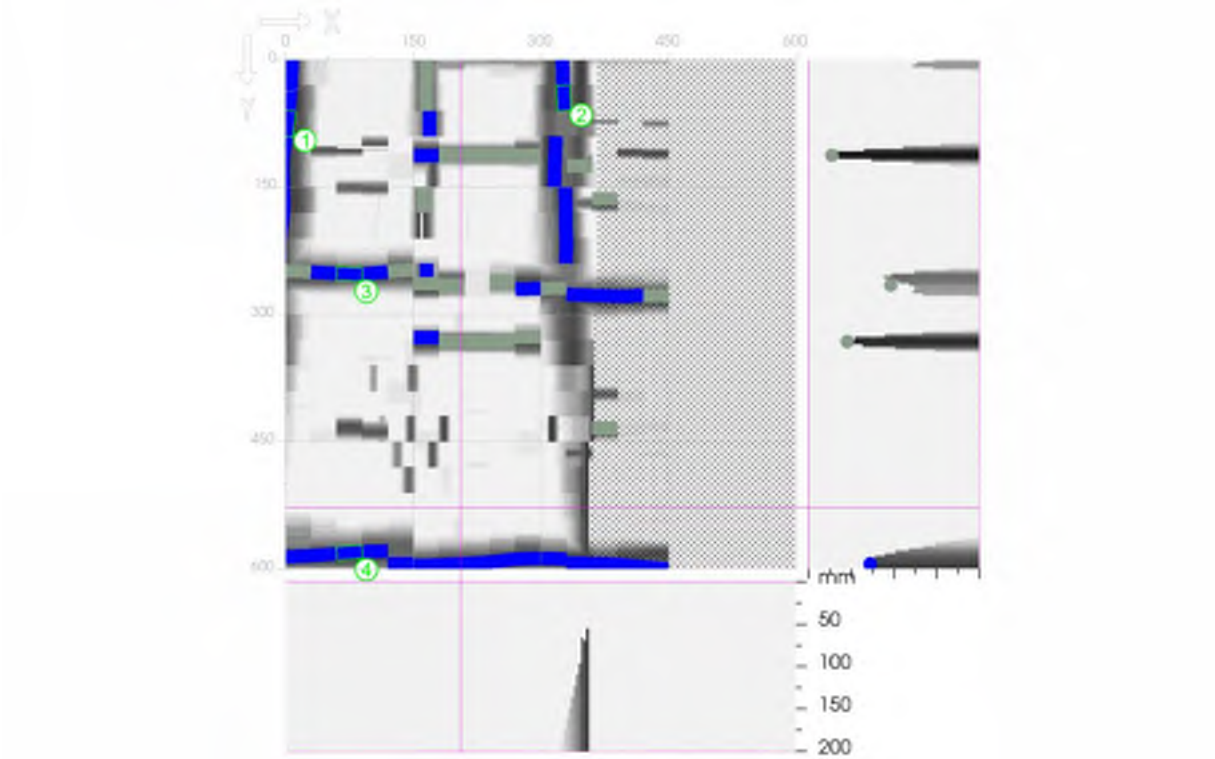
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 94	Object:	Beam
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	87 mm	405 mm	52 mm	32 mm	Vertical	High
2.	197 mm	405 mm	53 mm	32 mm	Vertical	High
3.	302 mm	435 mm	55 mm	32 mm	Vertical	High
4.	421 mm	435 mm	56 mm	32 mm	Vertical	High
5.	548 mm	465 mm	58 mm	32 mm	Vertical	High
6.	642 mm	345 mm	70 mm	32 mm	Vertical	High
7.	375 mm	103 mm	19 mm	12 mm	Horizontal	High
8.	255 mm	511 mm	28 mm	12 mm	Horizontal	High
9.	255 mm	854 mm	38 mm	12 mm	Horizontal	High
10.	255 mm	1166 mm	46 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	51 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-08-13 13:32:25
Comment:	-



x: 206 mm	y: 528 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

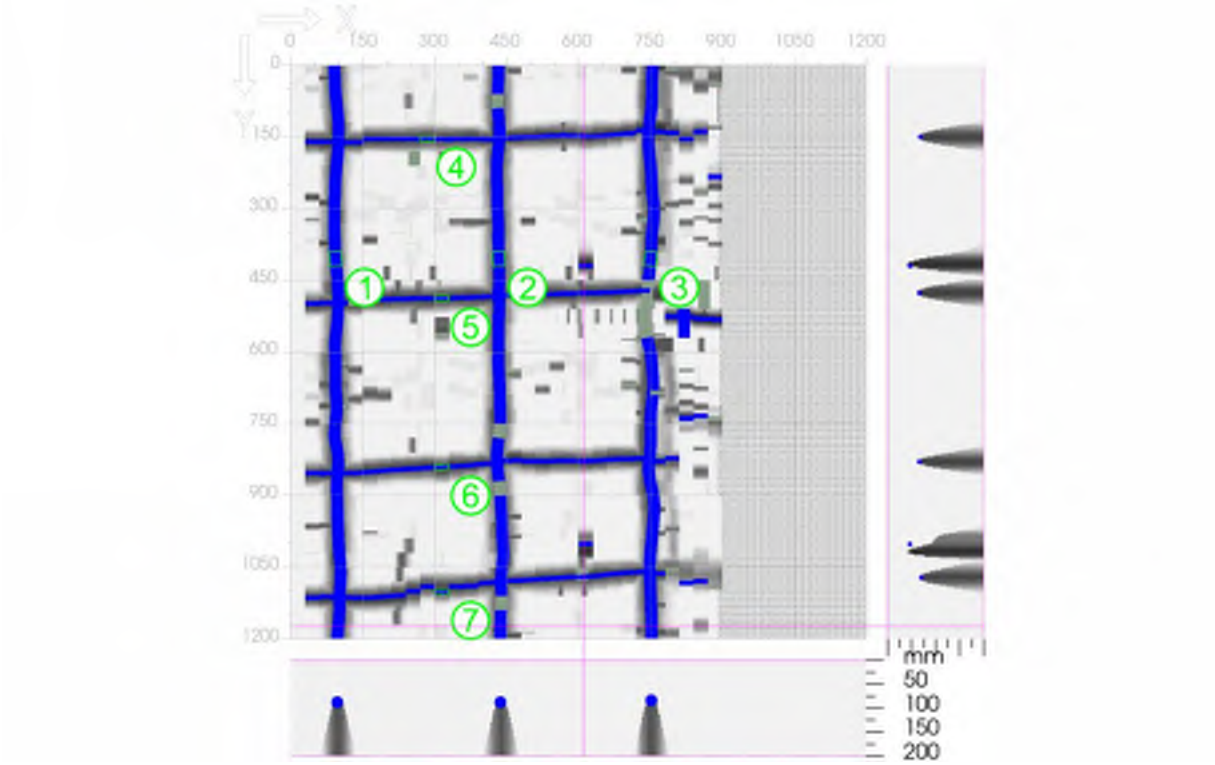
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 51	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	16 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	3 mm	75 mm	63 mm	16 mm	Vertical	High
2.	327 mm	45 mm	56 mm	16 mm	Vertical	High
3.	75 mm	253 mm	63 mm	16 mm	Horizontal	High
4.	75 mm	581 mm	57 mm	16 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	55 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-08-11 12:12:25
Comment:	-



x: 610 mm	y: 1173 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

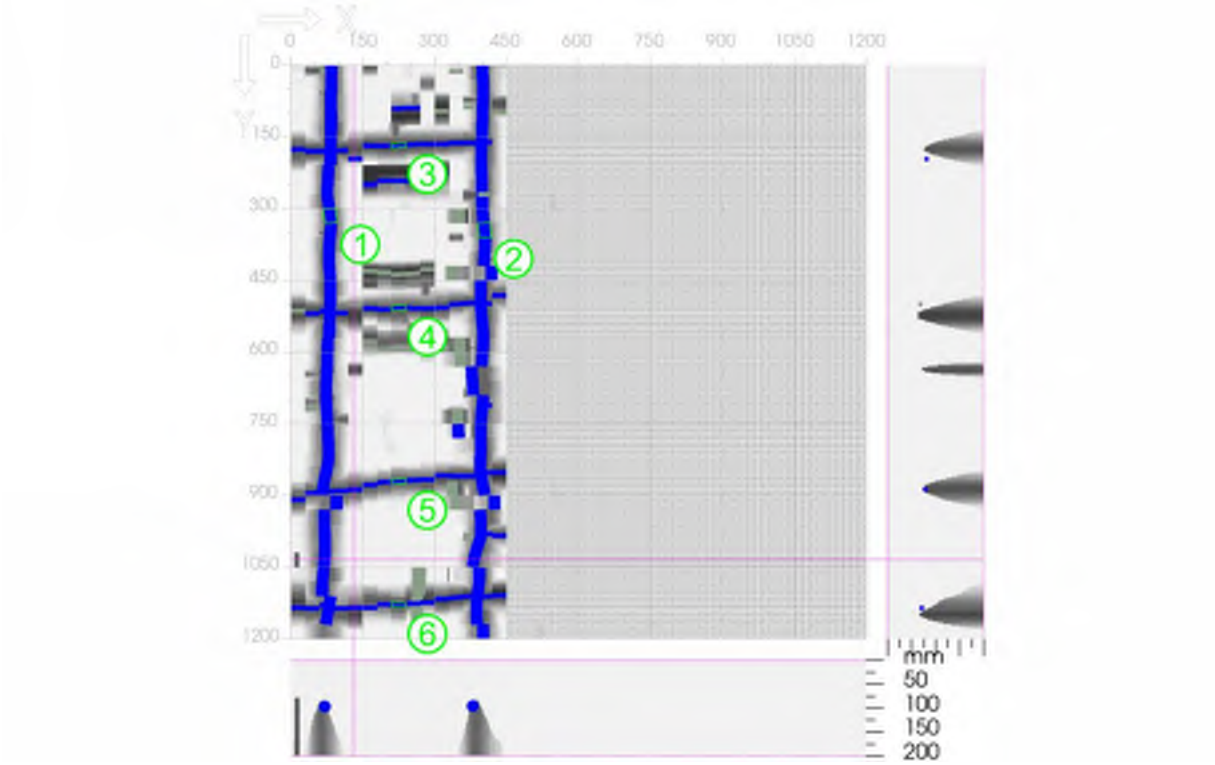
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 55 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	94 mm	405 mm	71 mm	25 mm	Vertical	High
2.	434 mm	405 mm	71 mm	25 mm	Vertical	High
3.	750 mm	405 mm	71 mm	25 mm	Vertical	High
4.	285 mm	153 mm	62 mm	10 mm	Horizontal	High
5.	315 mm	488 mm	64 mm	10 mm	Horizontal	High
6.	315 mm	840 mm	61 mm	10 mm	Horizontal	High
7.	315 mm	1102 mm	66 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	55 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-08-11 12:16:30
Comment:	-



x: 131 mm	y: 1034 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

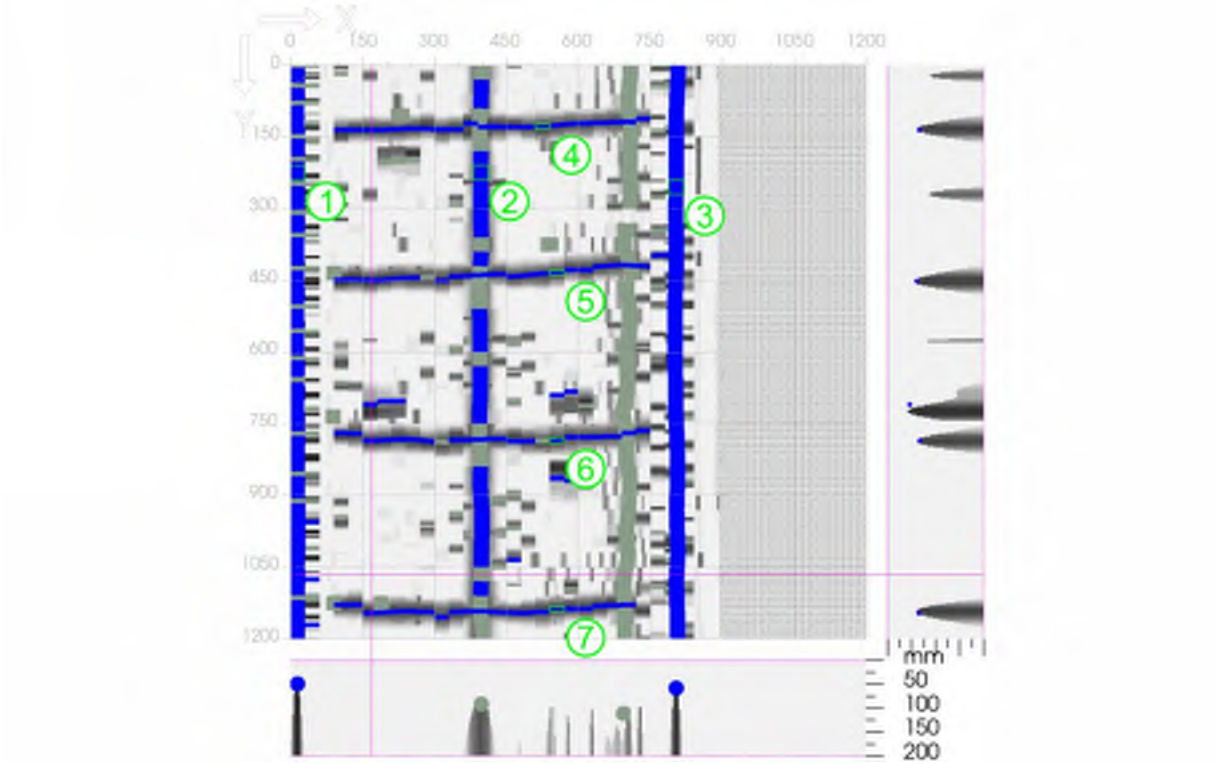
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 55 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	85 mm	315 mm	85 mm	25 mm	Vertical	High
2.	405 mm	345 mm	85 mm	25 mm	Vertical	High
3.	225 mm	168 mm	72 mm	10 mm	Horizontal	High
4.	225 mm	508 mm	79 mm	10 mm	Horizontal	High
5.	225 mm	871 mm	83 mm	10 mm	Horizontal	High
6.	225 mm	1130 mm	76 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	56 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-08-10 17:20:28
Comment:	-



x: 169 mm	y: 1067 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

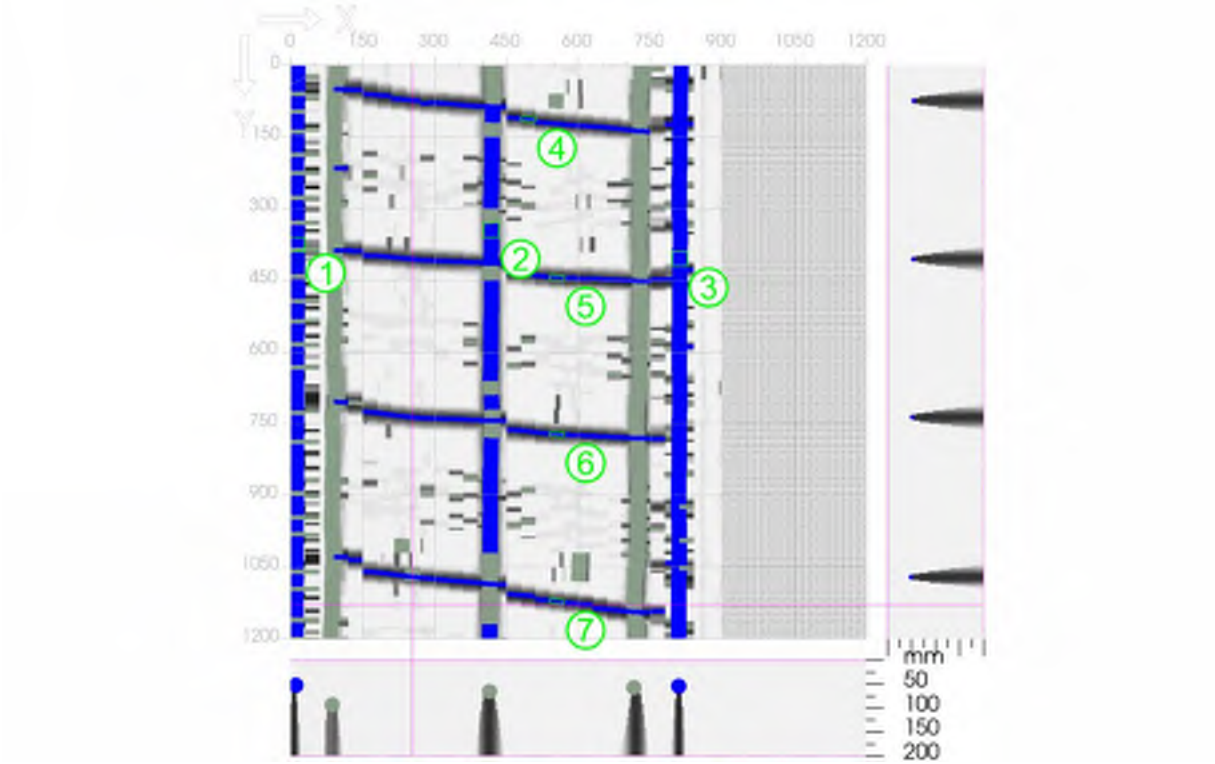
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 56 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	13 mm	225 mm	30 mm	32 mm	Vertical	High
2.	396 mm	225 mm	75 mm	32 mm	Vertical	High
3.	804 mm	255 mm	42 mm	32 mm	Vertical	High
4.	525 mm	128 mm	69 mm	10 mm	Horizontal	High
5.	555 mm	434 mm	69 mm	10 mm	Horizontal	High
6.	555 mm	785 mm	69 mm	10 mm	Horizontal	High
7.	555 mm	1137 mm	68 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	56 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-08-10 17:27:49
Comment:	-



x: 252 mm	y: 1130 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

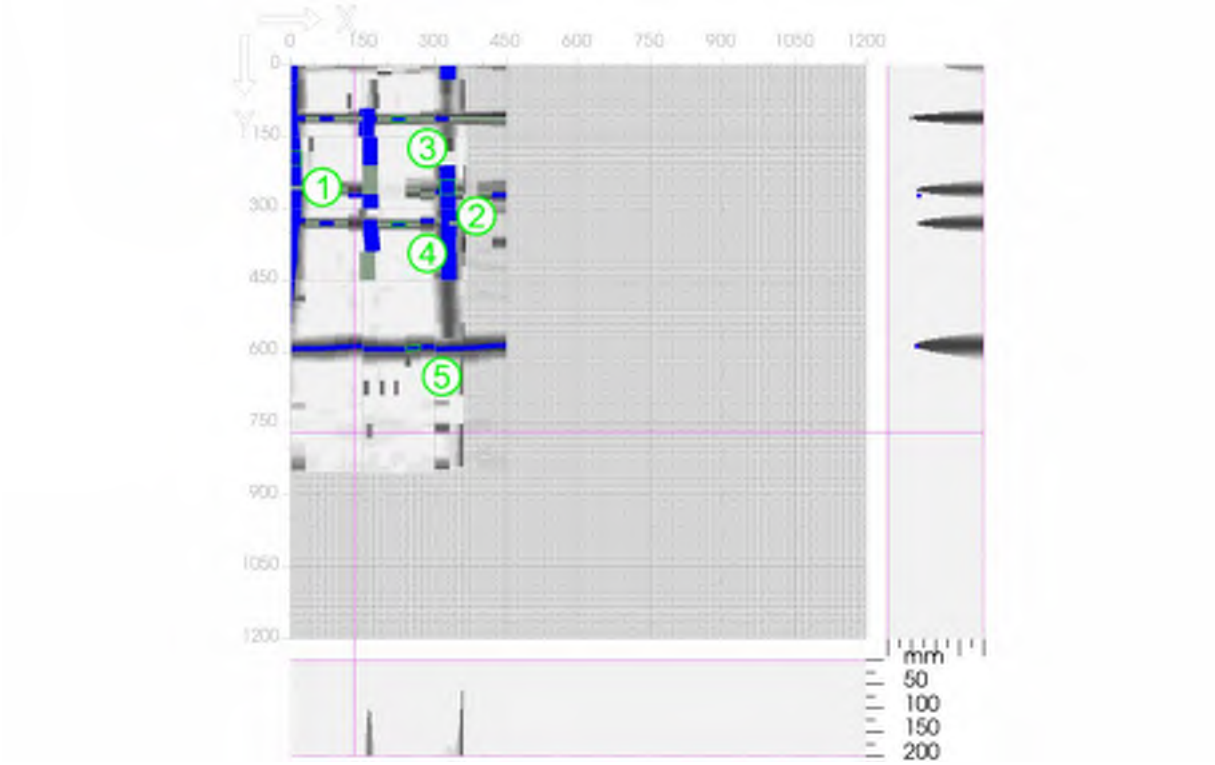
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 56 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	13 mm	375 mm	34 mm	32 mm	Vertical	High
2.	419 mm	345 mm	51 mm	32 mm	Vertical	High
3.	811 mm	405 mm	37 mm	32 mm	Vertical	High
4.	495 mm	114 mm	45 mm	10 mm	Horizontal	High
5.	555 mm	444 mm	43 mm	10 mm	Horizontal	High
6.	555 mm	772 mm	42 mm	10 mm	Horizontal	High
7.	555 mm	1122 mm	39 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	58 - North Face 1.fscan
Serial number:	227190008
Date / Time:	2021-08-13 13:36:49
Comment:	-



x: 132 mm	y: 768 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

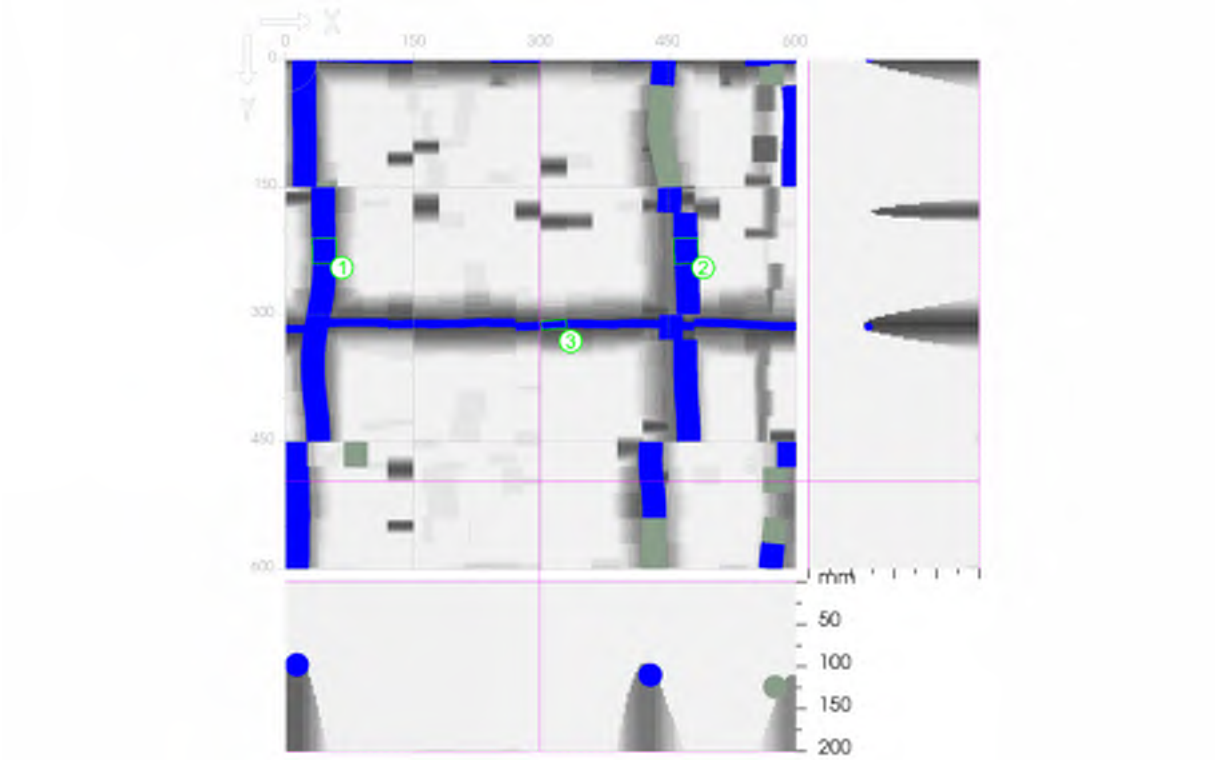
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 58 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	5 mm	195 mm	73 mm	32 mm	Vertical	High
2.	327 mm	255 mm	64 mm	32 mm	Vertical	High
3.	225 mm	114 mm	11 mm	10 mm	Horizontal	High
4.	225 mm	333 mm	26 mm	10 mm	Horizontal	High
5.	255 mm	591 mm	57 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	60 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-08-13 14:11:45
Comment:	-



x: 299 mm	y: 497 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

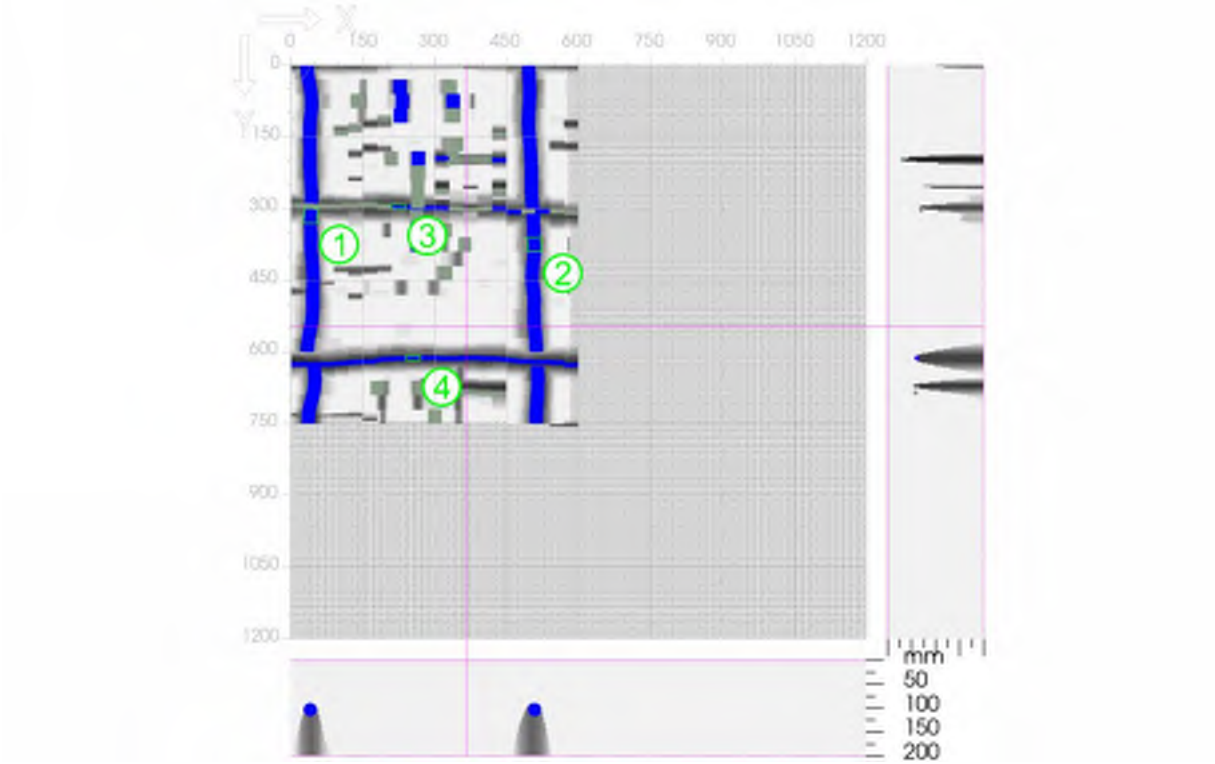
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 60 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	46 mm	225 mm	87 mm	28 mm	Vertical	High
2.	470 mm	225 mm	96 mm	28 mm	Vertical	High
3.	315 mm	312 mm	68 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	60 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-08-13 13:42:38
Comment:	-



x: 366 mm	y: 547 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

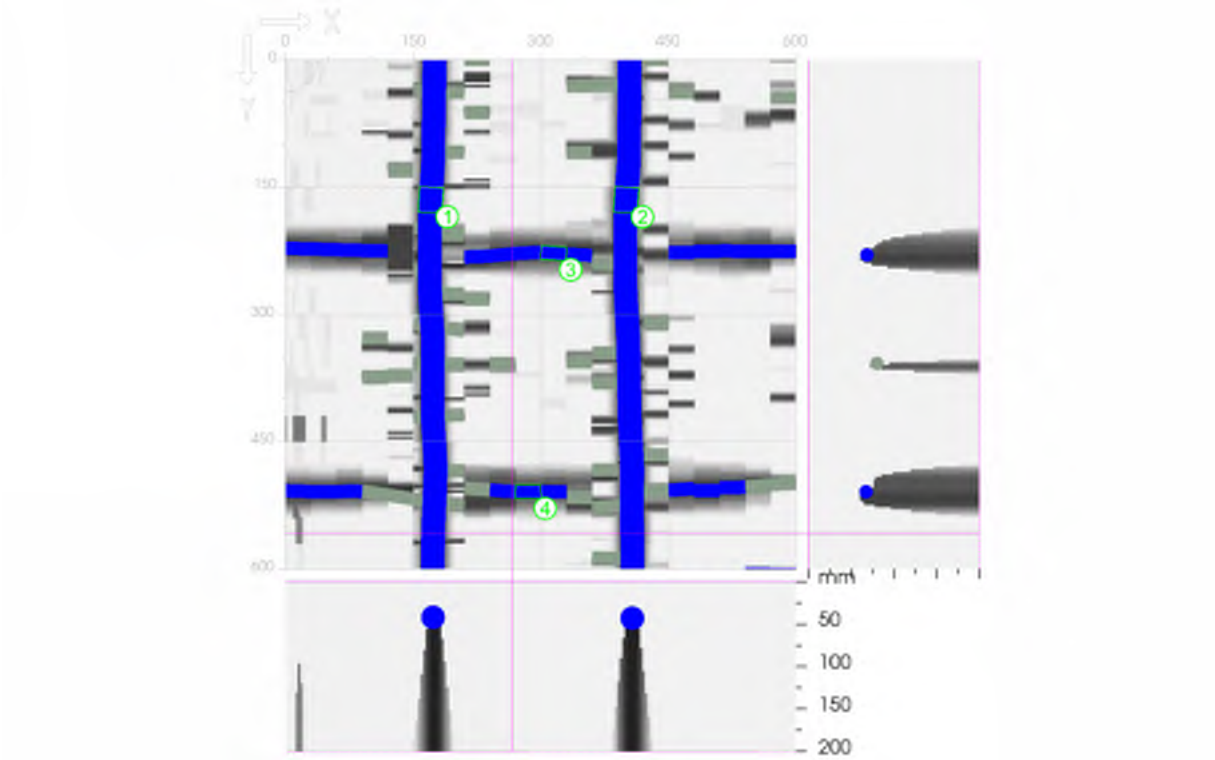
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 60 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	41 mm	315 mm	73 mm	28 mm	Vertical	High
2.	507 mm	375 mm	74 mm	28 mm	Vertical	High
3.	225 mm	297 mm	64 mm	10 mm	Horizontal	High
4.	255 mm	613 mm	55 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	61.fscan
Serial number:	227190008
Date / Time:	2021-08-12 12:08:31
Comment:	-



x: 266 mm	y: 558 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

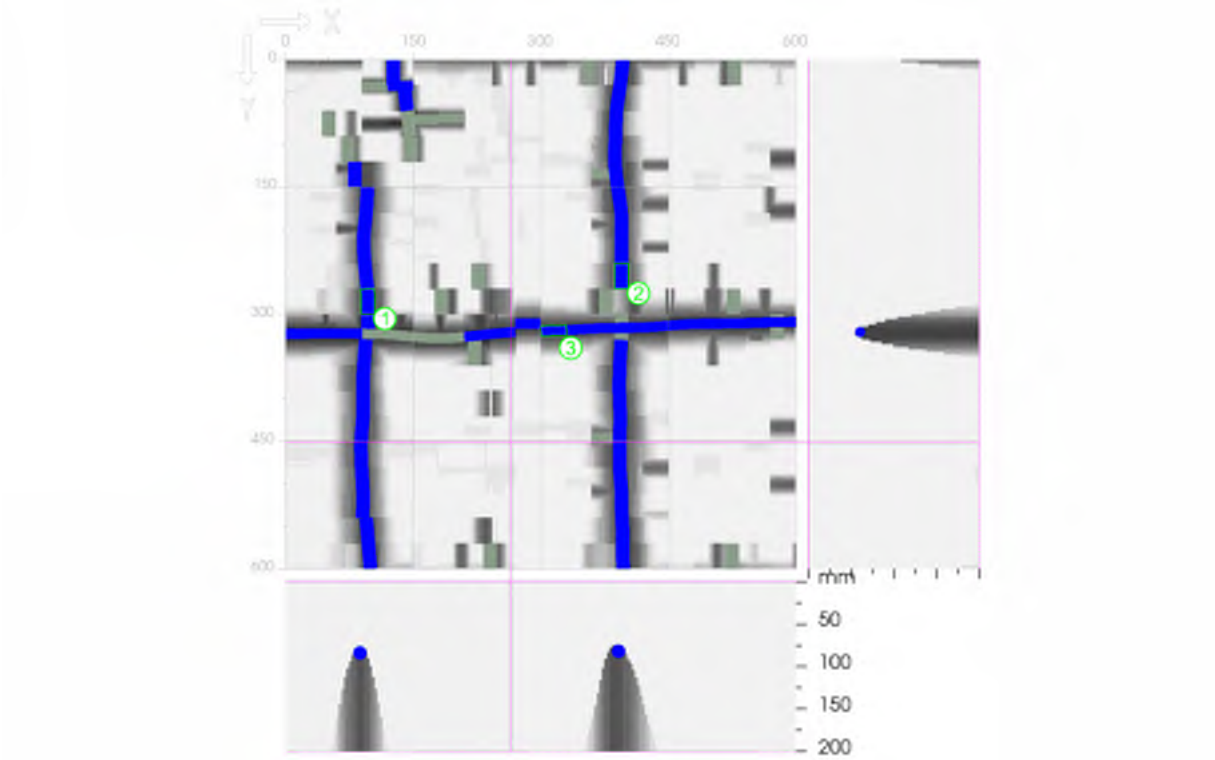
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 61	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	16 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	170 mm	165 mm	32 mm	28 mm	Vertical	High
2.	399 mm	165 mm	33 mm	28 mm	Vertical	High
3.	315 mm	227 mm	60 mm	16 mm	Horizontal	High
4.	285 mm	509 mm	62 mm	16 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	63.fscan
Serial number:	227190008
Date / Time:	2021-08-10 17:59:55
Comment:	-



x: 264 mm	y: 450 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

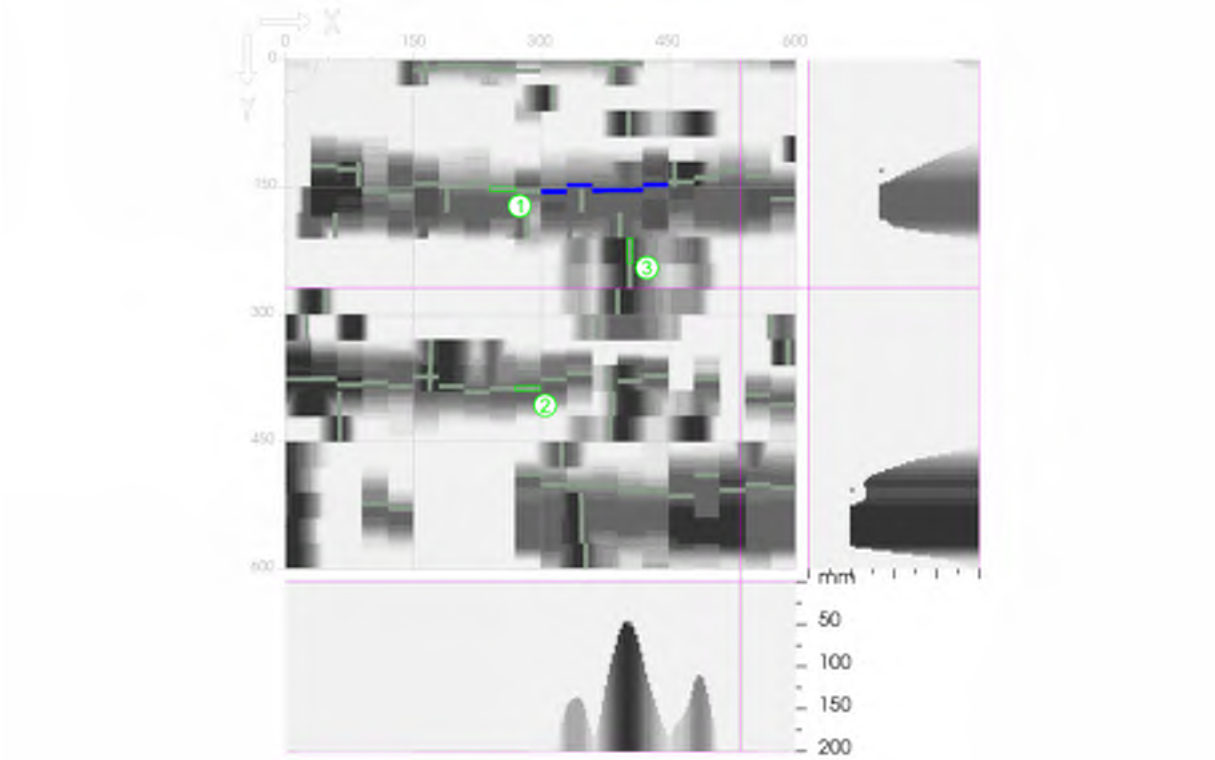
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 63	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	97 mm	285 mm	68 mm	16 mm	Vertical	High
2.	395 mm	255 mm	70 mm	16 mm	Vertical	High
3.	315 mm	320 mm	58 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	64.fscan
Serial number:	227190008
Date / Time:	2021-08-10 17:56:51
Comment:	-



x: 534 mm	y: 269 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

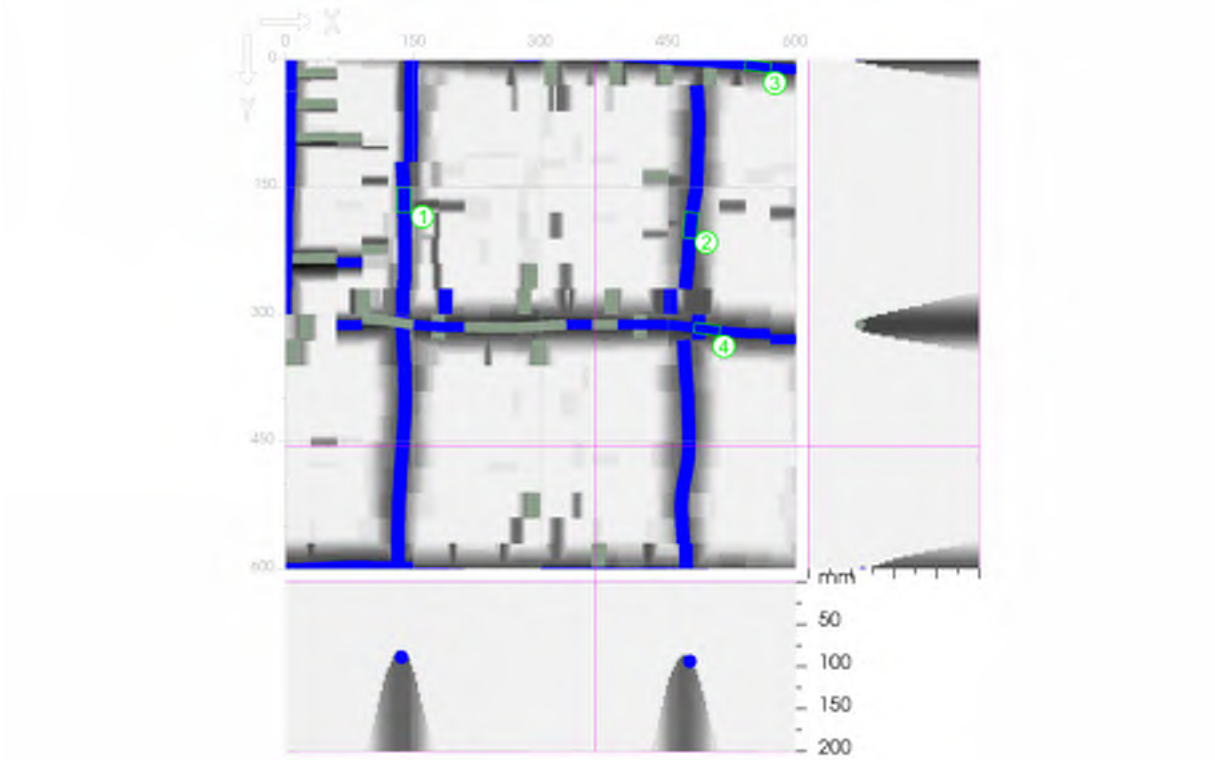
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 64	Object:	Slab
User:	BD		
Comment:	Link bar size is 4mm Smooth		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	6 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	255 mm	152 mm	84 mm	6 mm	Horizontal	Low
2.	285 mm	387 mm	82 mm	6 mm	Horizontal	Low
3.	405 mm	225 mm	47 mm	6 mm	Vertical	Low

.Hilti PROFIS Detection Report

Scan File:	65.fscan
Serial number:	227190008
Date / Time:	2021-08-11 12:02:58
Comment:	-



x: 364 mm y: 455 mm z: 0 mm Thickness: 200 mm
Overlay: - mm

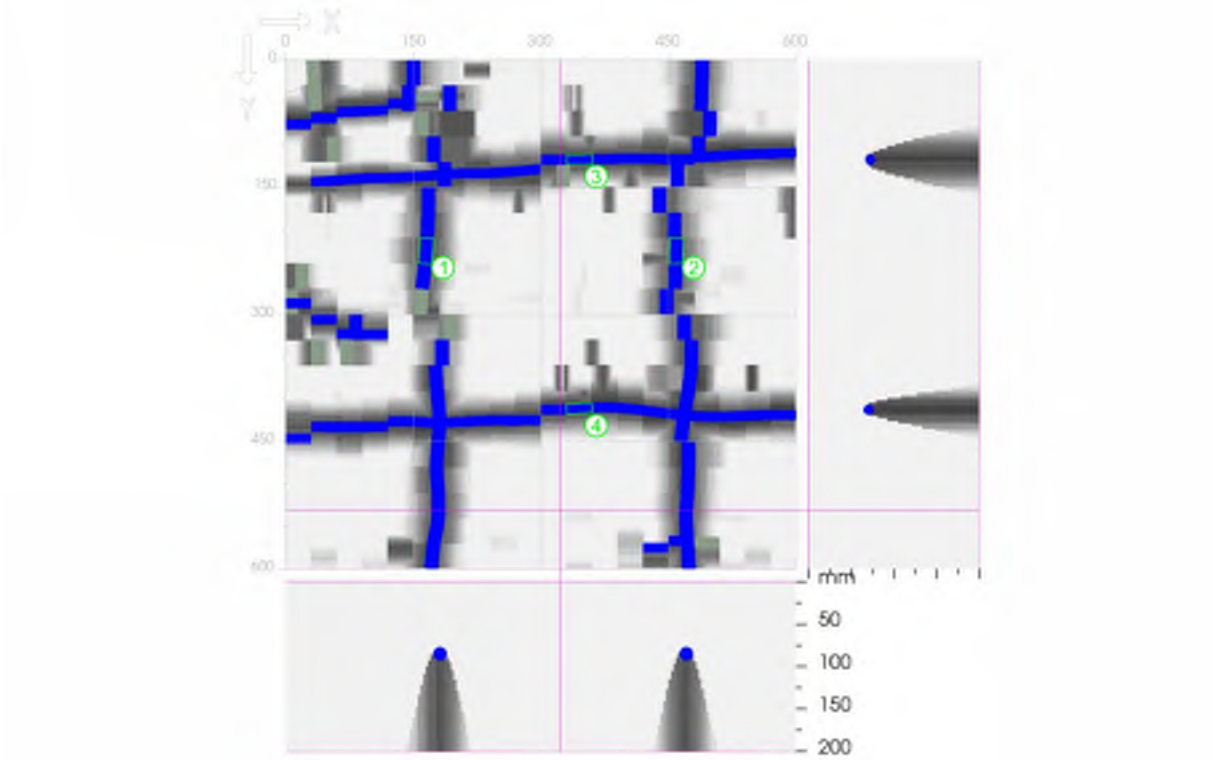
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 65	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	141 mm	165 mm	71 mm	16 mm	Vertical	High
2.	474 mm	195 mm	79 mm	16 mm	Vertical	High
3.	555 mm	7 mm	58 mm	12 mm	Horizontal	High
4.	495 mm	318 mm	61 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	66.fscan
Serial number:	227190008
Date / Time:	2021-08-10 17:44:18
Comment:	-



x: 322 mm	y: 531 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

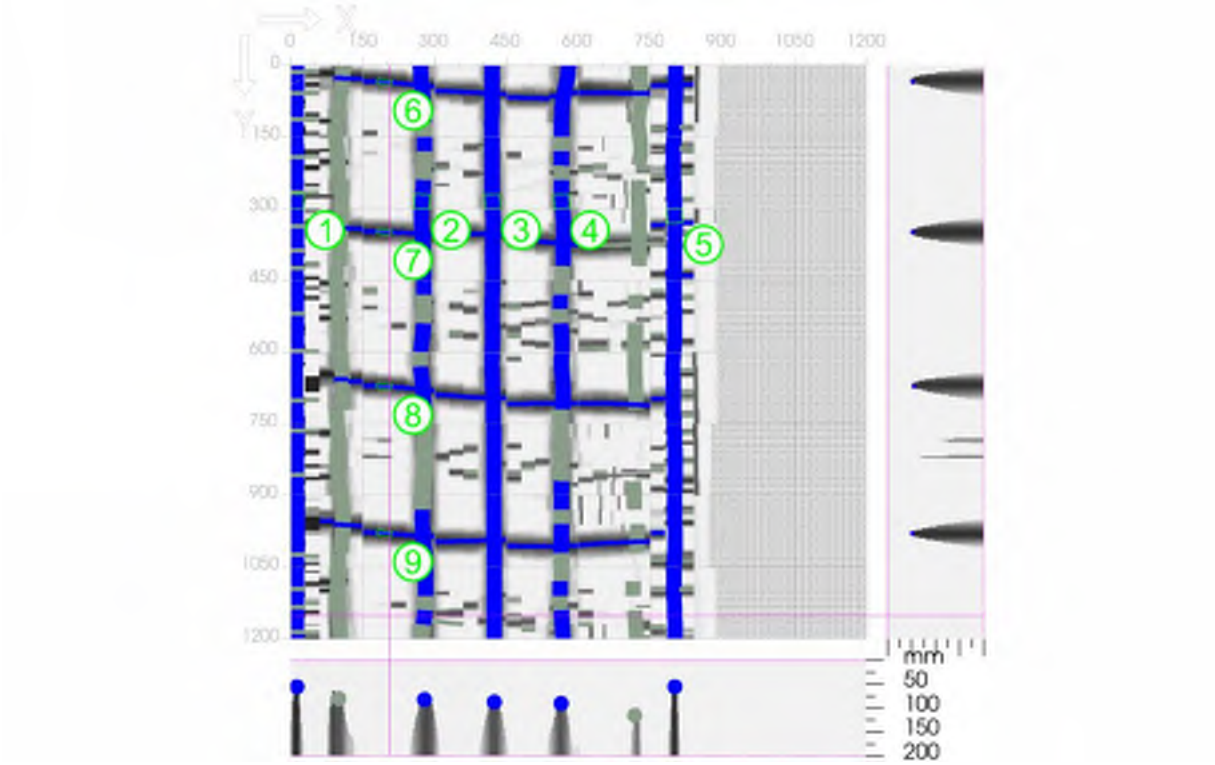
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 66	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	165 mm	225 mm	76 mm	16 mm	Vertical	High
2.	459 mm	225 mm	84 mm	16 mm	Vertical	High
3.	345 mm	118 mm	64 mm	12 mm	Horizontal	High
4.	345 mm	411 mm	61 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	70 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-08-10 17:15:08
Comment:	-



x: 207 mm	y: 1152 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

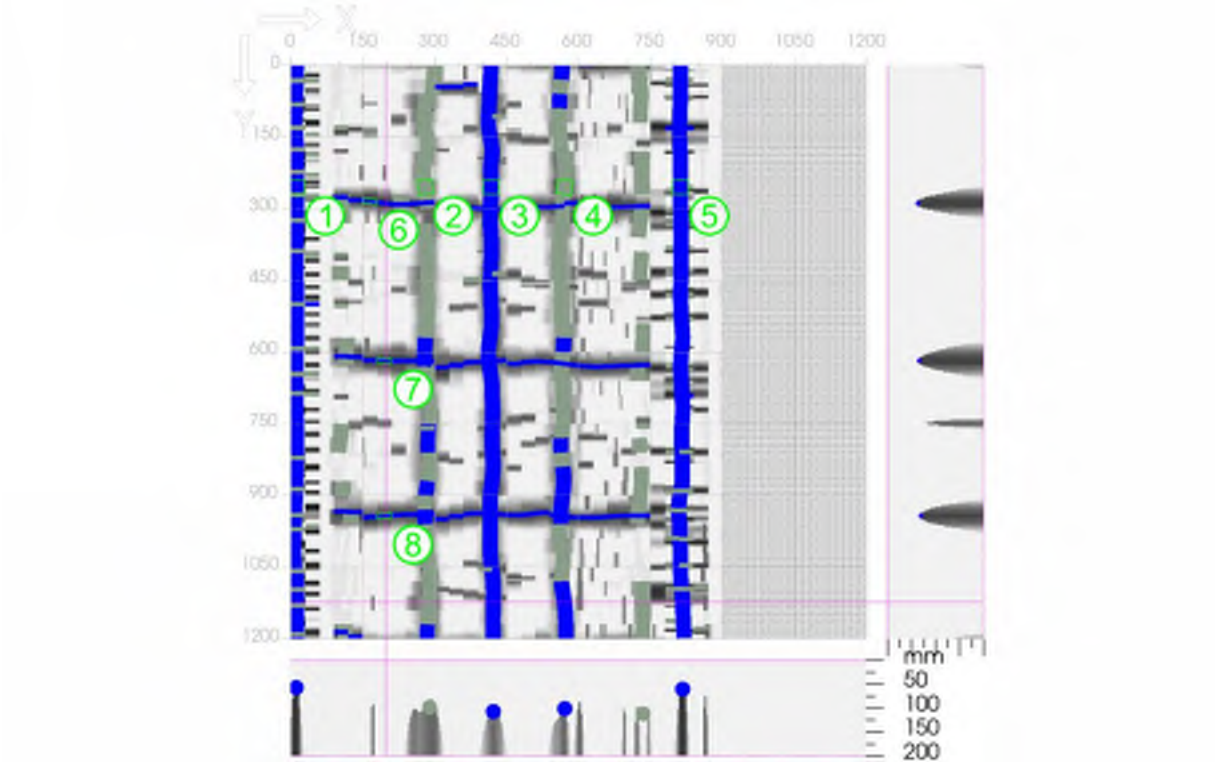
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 70 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	11 mm	285 mm	35 mm	32 mm	Vertical	High
2.	274 mm	285 mm	69 mm	32 mm	Vertical	High
3.	420 mm	285 mm	63 mm	32 mm	Vertical	High
4.	564 mm	285 mm	70 mm	32 mm	Vertical	High
5.	801 mm	315 mm	40 mm	32 mm	Vertical	High
6.	195 mm	35 mm	47 mm	10 mm	Horizontal	High
7.	195 mm	349 mm	47 mm	10 mm	Horizontal	High
8.	195 mm	672 mm	50 mm	10 mm	Horizontal	High
9.	195 mm	979 mm	46 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	70 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-08-10 17:06:32
Comment:	-



x: 199 mm	y: 1123 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

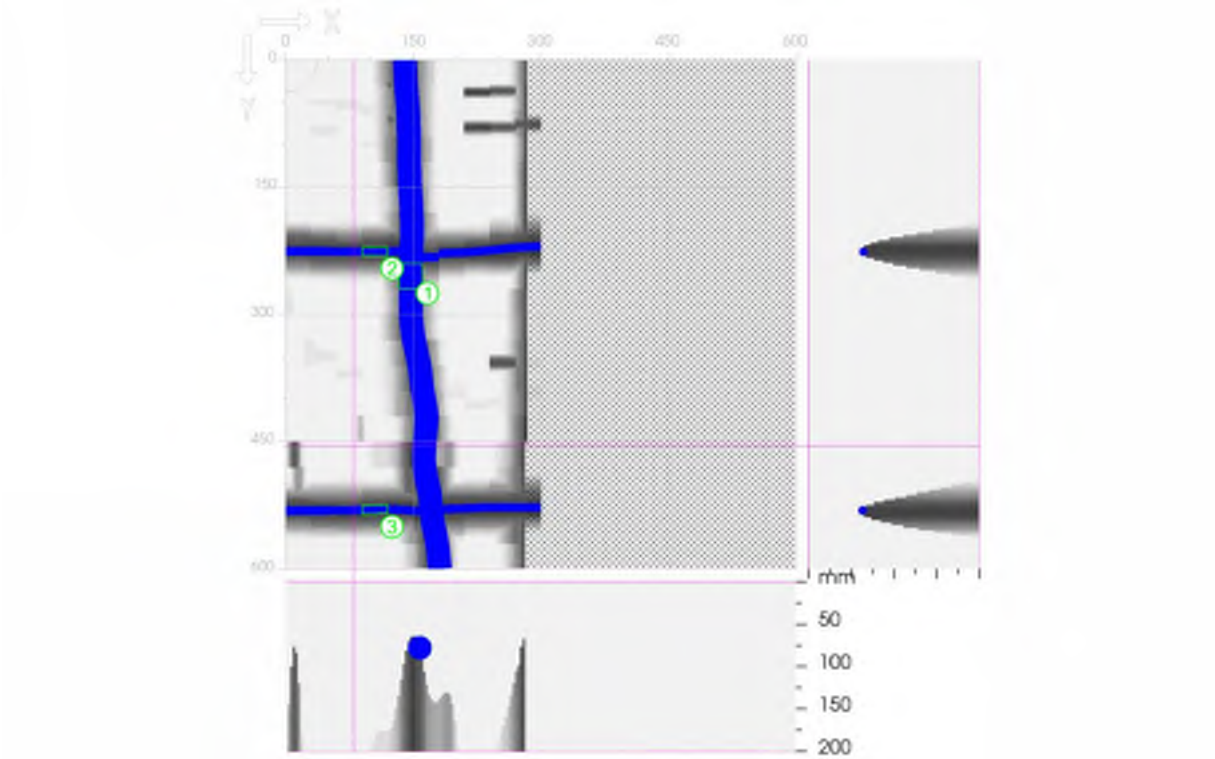
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 70 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	12 mm	255 mm	32 mm	32 mm	Vertical	High
2.	279 mm	255 mm	77 mm	32 mm	Vertical	Low
3.	417 mm	255 mm	88 mm	32 mm	Vertical	High
4.	570 mm	255 mm	76 mm	32 mm	Vertical	Low
5.	813 mm	255 mm	36 mm	32 mm	Vertical	High
6.	165 mm	284 mm	55 mm	10 mm	Horizontal	High
7.	195 mm	618 mm	61 mm	10 mm	Horizontal	High
8.	195 mm	943 mm	64 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	71 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-08-13 14:23:49
Comment:	-



x: 80 mm	y: 455 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

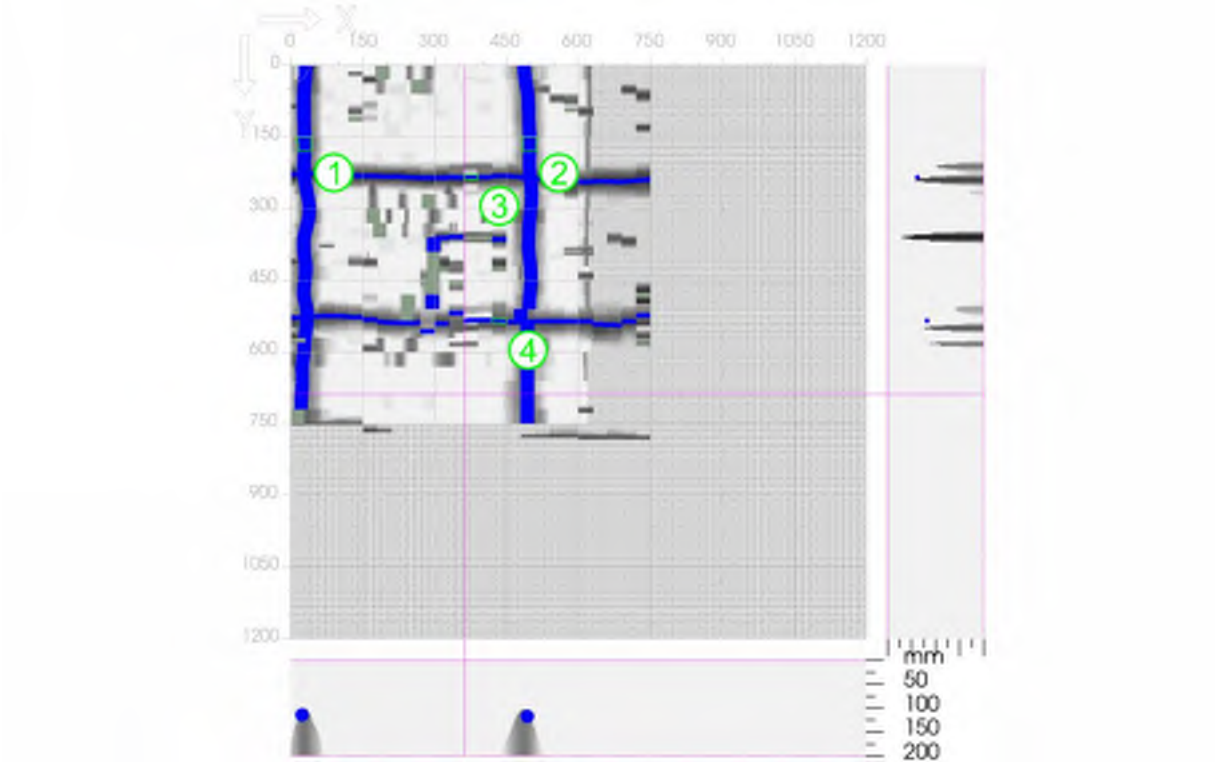
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 71 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	147 mm	255 mm	74 mm	28 mm	Vertical	High
2.	105 mm	226 mm	59 mm	10 mm	Horizontal	High
3.	105 mm	530 mm	58 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	71 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-08-13 14:18:56
Comment:	-



x: 364 mm	y: 689 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

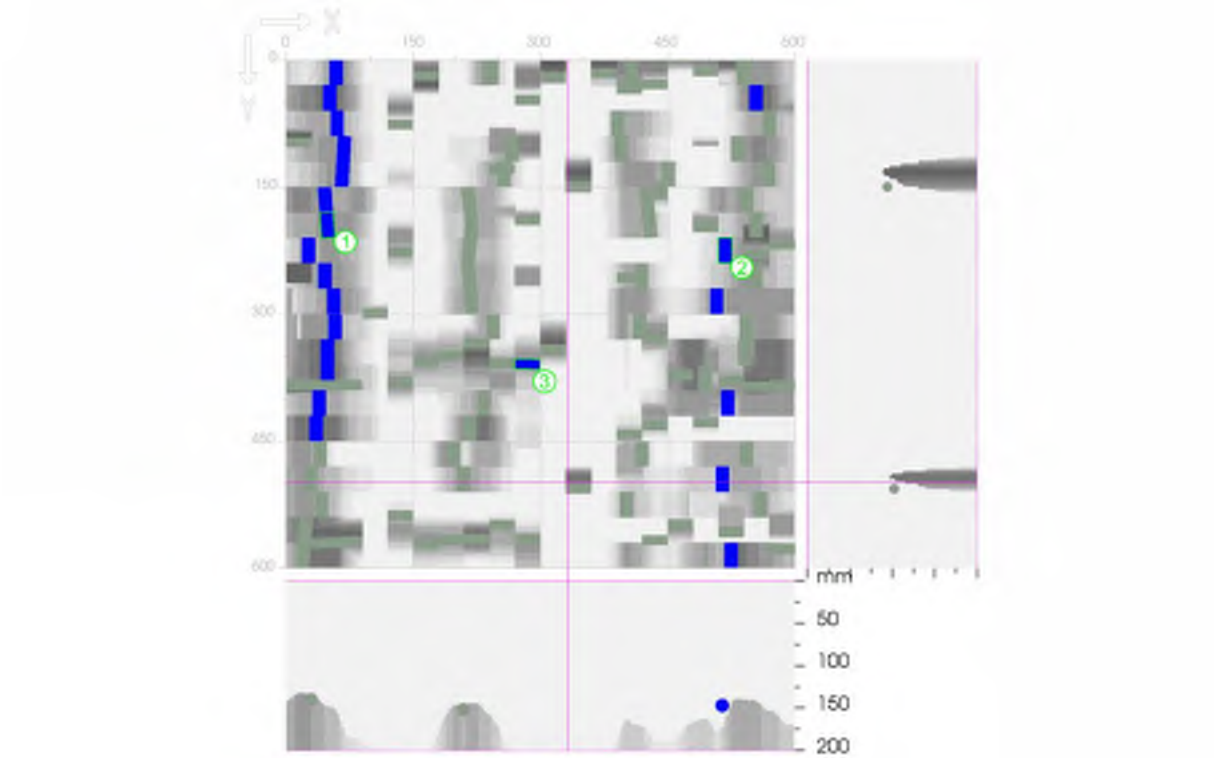
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 71 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	30 mm	165 mm	79 mm	28 mm	Vertical	High
2.	499 mm	165 mm	85 mm	28 mm	Vertical	High
3.	375 mm	234 mm	57 mm	10 mm	Horizontal	High
4.	435 mm	536 mm	76 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	72.fscan
Serial number:	227190008
Date / Time:	2021-08-12 14:24:28
Comment:	-



x: 332 mm	y: 498 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

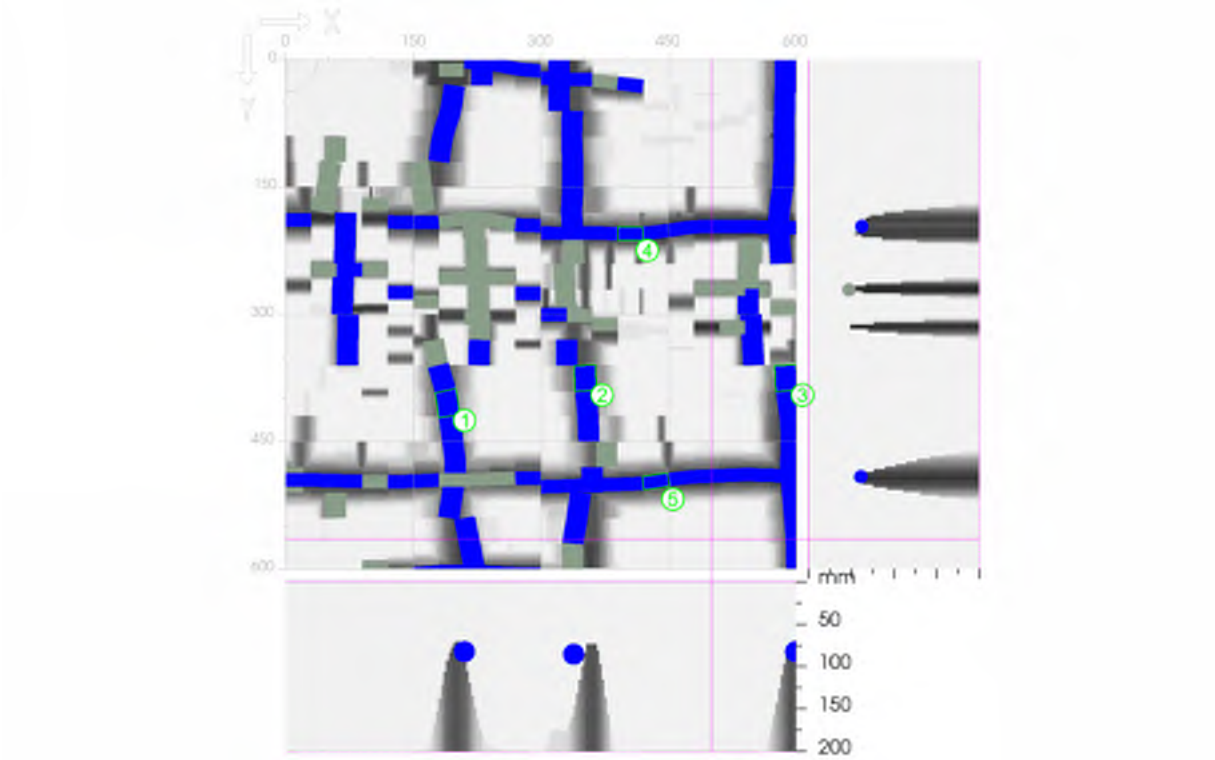
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 72	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	50 mm	195 mm	123 mm	16 mm	Vertical	High
2.	518 mm	225 mm	133 mm	16 mm	Vertical	High
3.	285 mm	360 mm	126 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	73.fscan
Serial number:	227190008
Date / Time:	2021-08-12 14:16:35
Comment:	-



x: 501 mm	y: 564 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

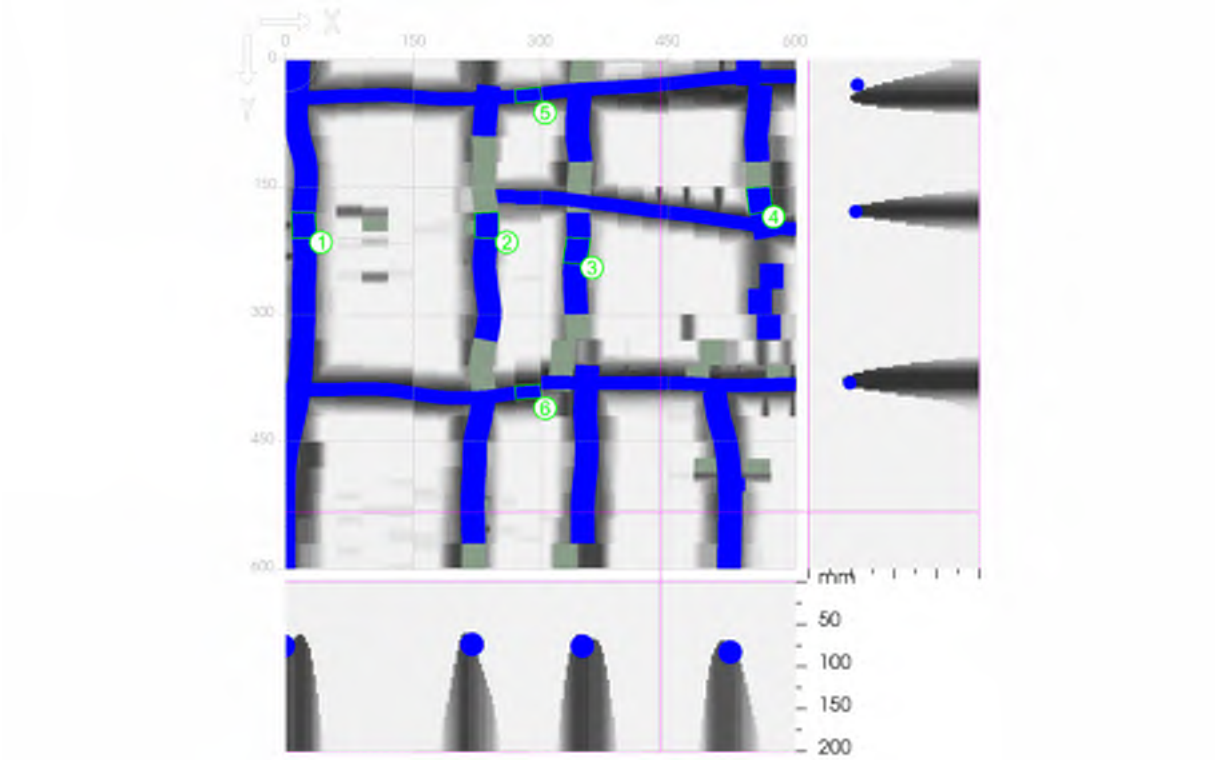
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 73	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	16 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	190 mm	405 mm	88 mm	25 mm	Vertical	High
2.	352 mm	375 mm	87 mm	25 mm	Vertical	High
3.	587 mm	375 mm	68 mm	25 mm	Vertical	High
4.	405 mm	205 mm	53 mm	16 mm	Horizontal	High
5.	435 mm	498 mm	57 mm	16 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	74.fscan
Serial number:	227190008
Date / Time:	2021-08-12 12:04:11
Comment:	-



x: 441 mm	y: 533 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

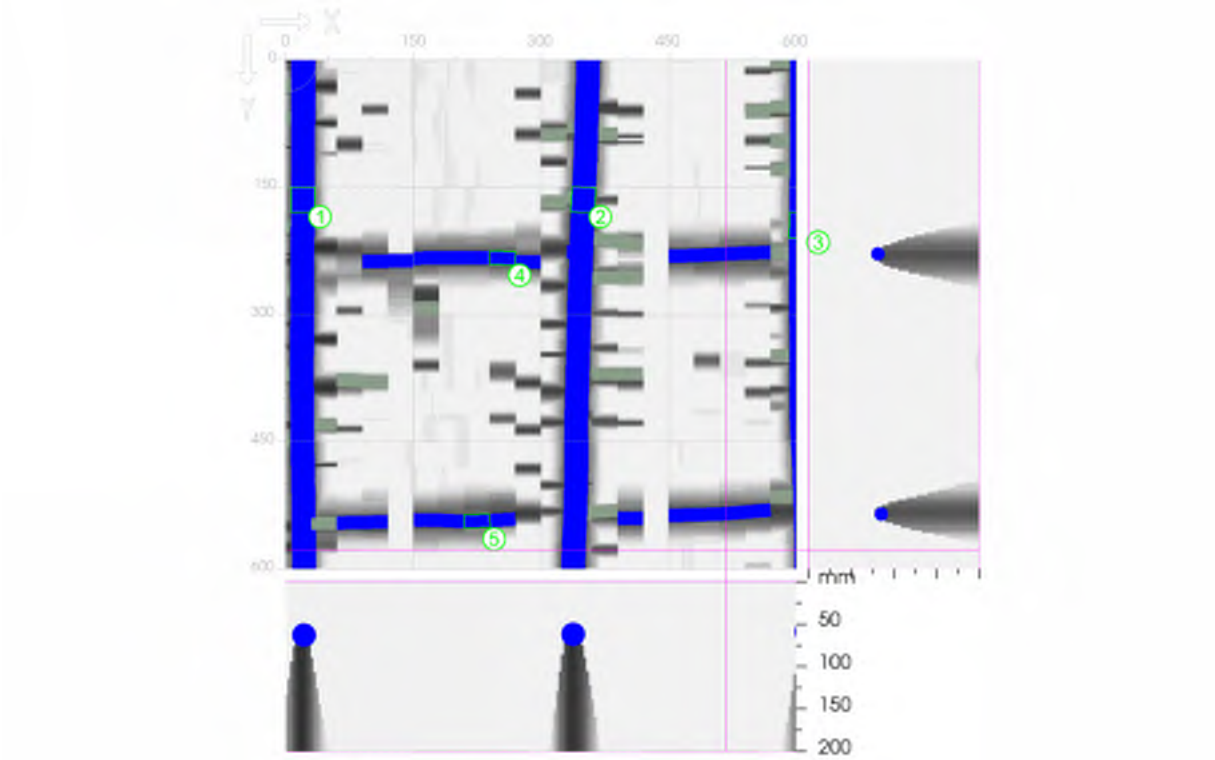
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 74	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	16 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	22 mm	195 mm	70 mm	28 mm	Vertical	High
2.	240 mm	195 mm	69 mm	28 mm	Vertical	High
3.	340 mm	225 mm	71 mm	28 mm	Vertical	High
4.	553 mm	165 mm	58 mm	28 mm	Vertical	High
5.	285 mm	42 mm	53 mm	16 mm	Horizontal	High
6.	285 mm	390 mm	43 mm	16 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	75.fscan
Serial number:	227190008
Date / Time:	2021-08-12 12:12:21
Comment:	-



x: 518 mm	y: 578 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

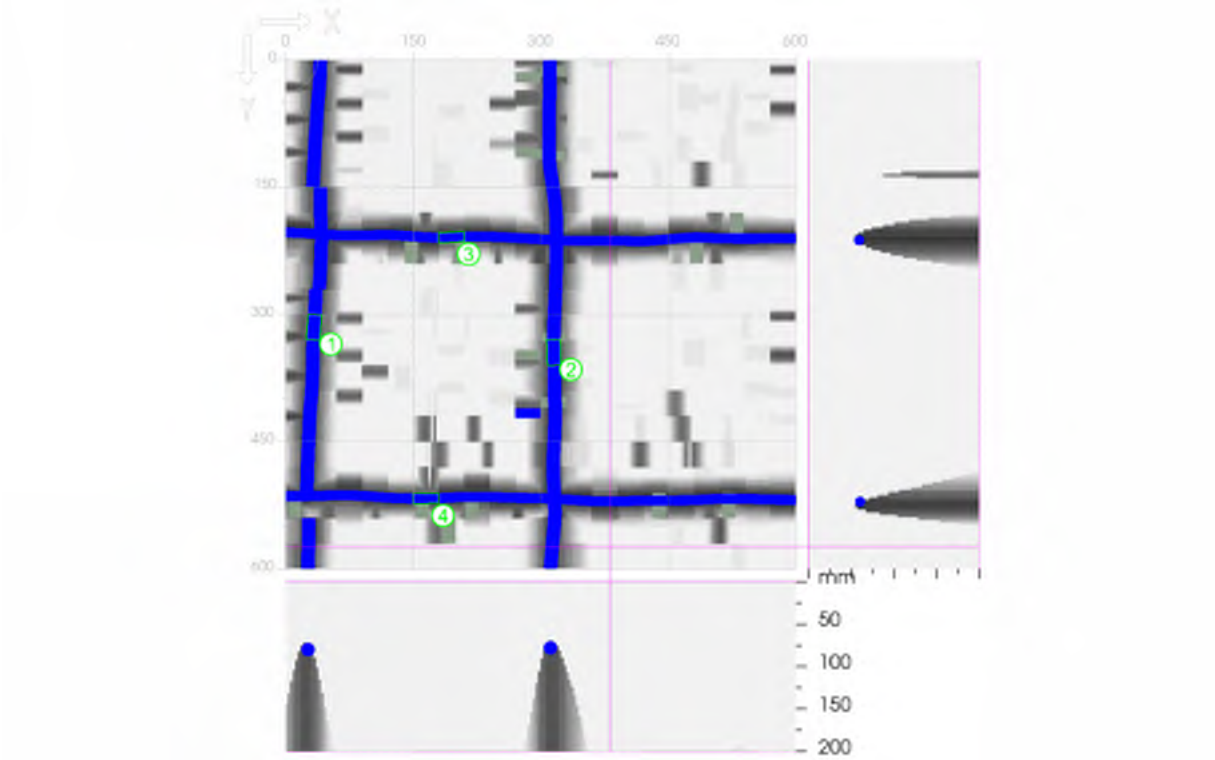
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 75	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	16 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	20 mm	165 mm	47 mm	28 mm	Vertical	High
2.	350 mm	165 mm	49 mm	28 mm	Vertical	High
3.	606 mm	195 mm	45 mm	28 mm	Vertical	High
4.	255 mm	234 mm	77 mm	16 mm	Horizontal	High
5.	225 mm	545 mm	77 mm	16 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	78.fscan
Serial number:	227190008
Date / Time:	2021-08-10 18:04:13
Comment:	-



x: 381 mm	y: 574 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

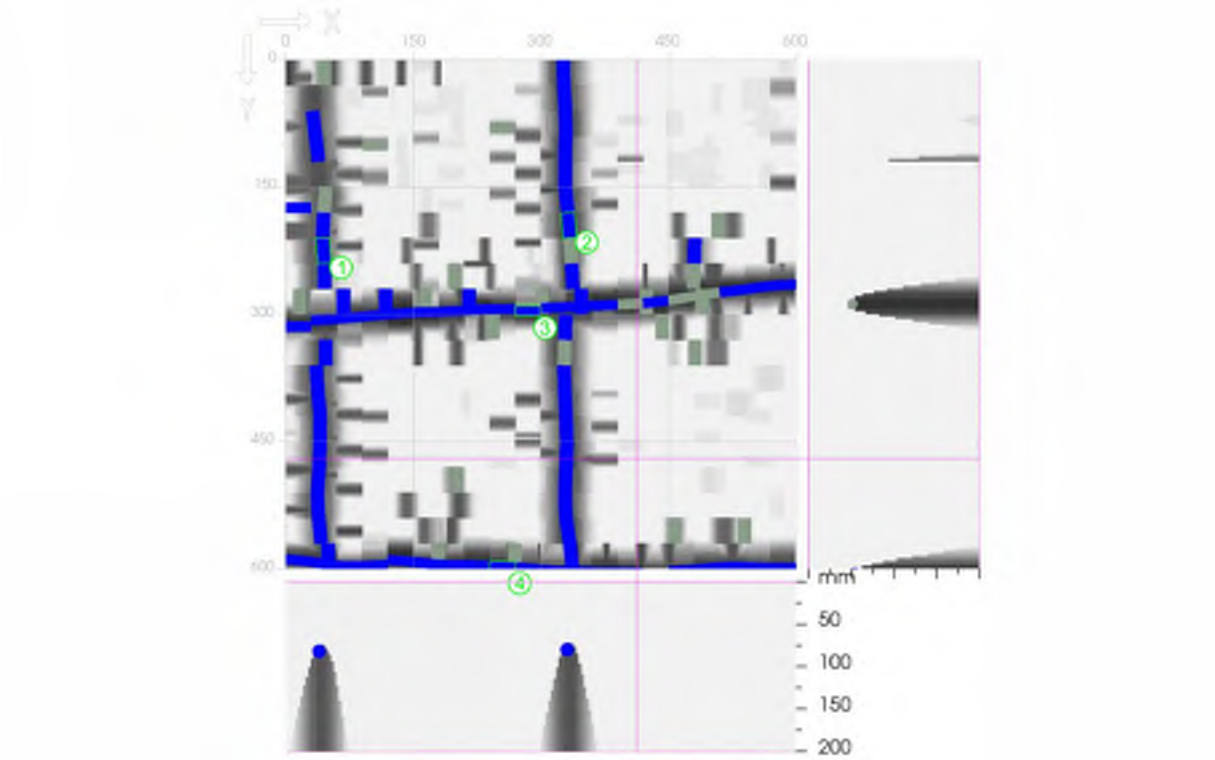
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 78	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	33 mm	315 mm	67 mm	16 mm	Vertical	High
2.	315 mm	345 mm	67 mm	16 mm	Vertical	High
3.	195 mm	209 mm	53 mm	12 mm	Horizontal	High
4.	165 mm	517 mm	54 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	79.fscan
Serial number:	227190008
Date / Time:	2021-08-10 18:07:43
Comment:	-



x: 413 mm	y: 470 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

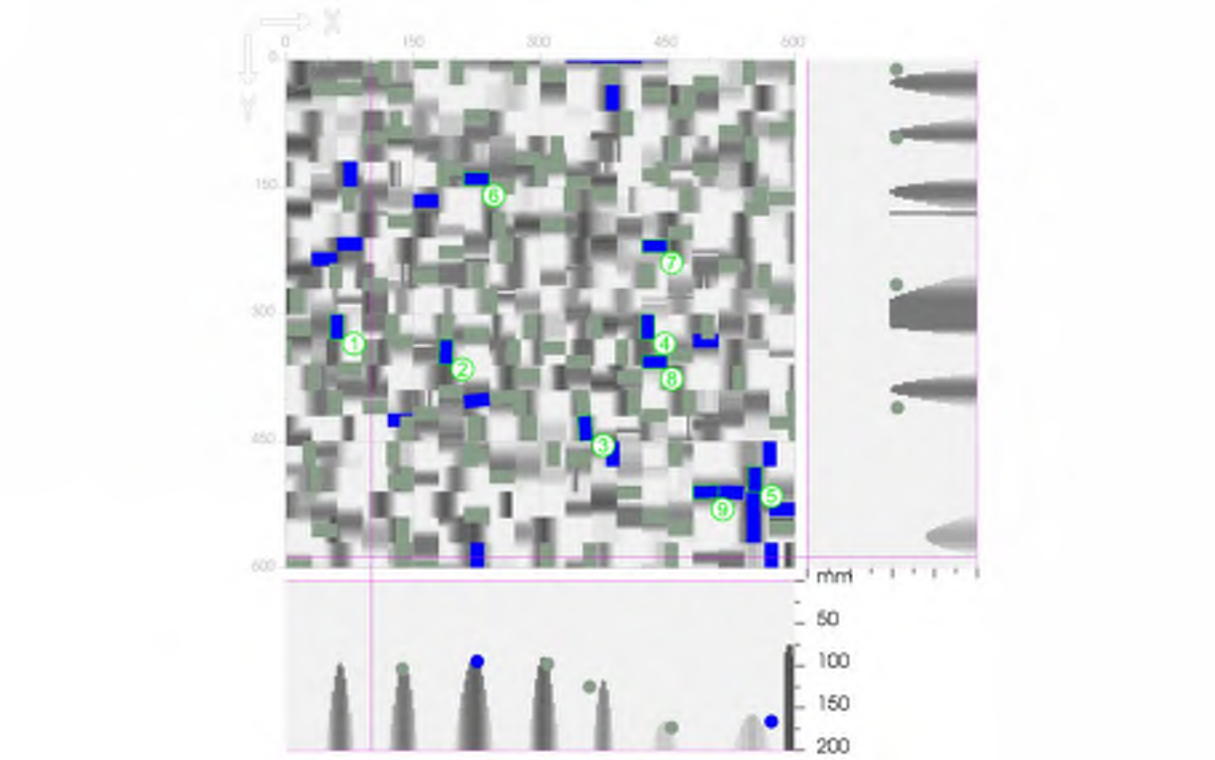
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 79	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	45 mm	225 mm	78 mm	16 mm	Vertical	High
2.	334 mm	195 mm	65 mm	16 mm	Vertical	High
3.	285 mm	296 mm	54 mm	12 mm	Horizontal	High
4.	255 mm	597 mm	48 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	80.fscan
Serial number:	227190008
Date / Time:	2021-08-12 12:39:09
Comment:	-



x: 100 mm	y: 587 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

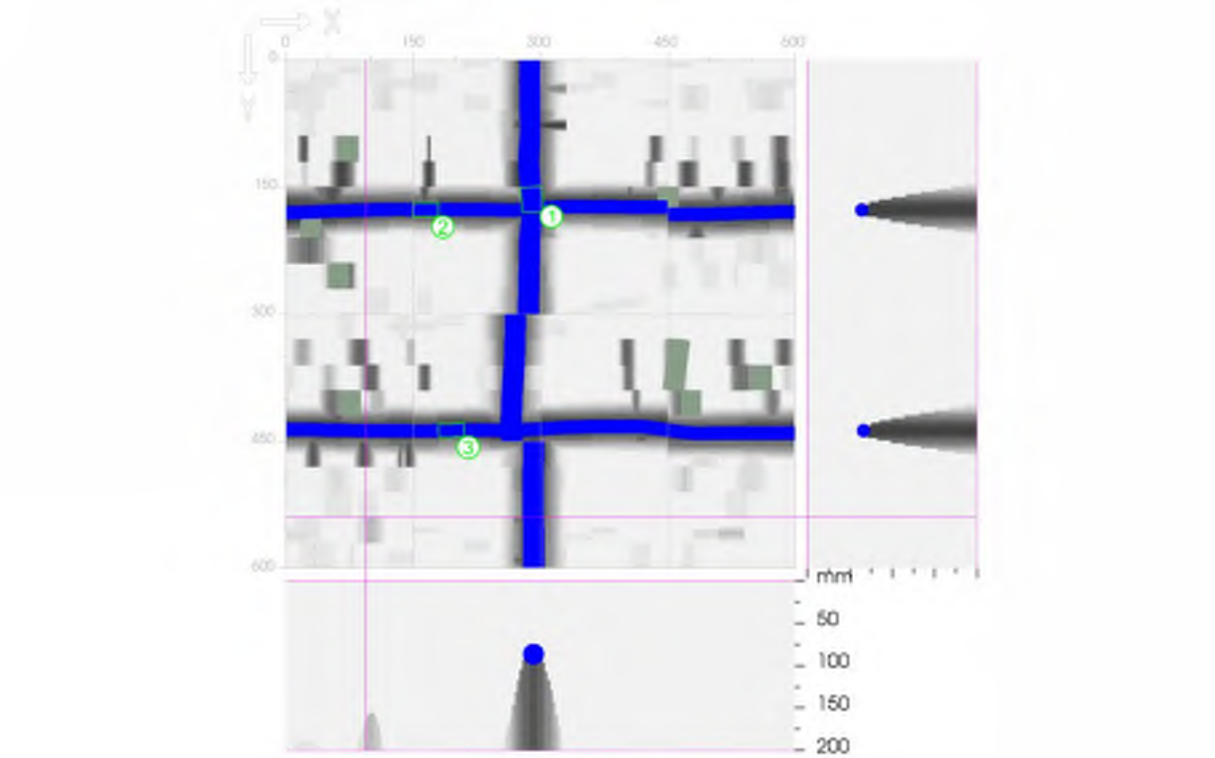
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 80	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	16 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	60 mm	315 mm	85 mm	16 mm	Vertical	High
2.	188 mm	345 mm	88 mm	16 mm	Vertical	High
3.	354 mm	435 mm	94 mm	16 mm	Vertical	High
4.	426 mm	315 mm	103 mm	16 mm	Vertical	High
5.	553 mm	495 mm	71 mm	16 mm	Vertical	High
6.	225 mm	140 mm	97 mm	16 mm	Horizontal	High
7.	435 mm	220 mm	147 mm	16 mm	Horizontal	High
8.	435 mm	356 mm	146 mm	16 mm	Horizontal	High
9.	495 mm	510 mm	88 mm	16 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	81.fscan
Serial number:	227190008
Date / Time:	2021-08-12 12:34:30
Comment:	-



x: 94 mm	y: 539 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

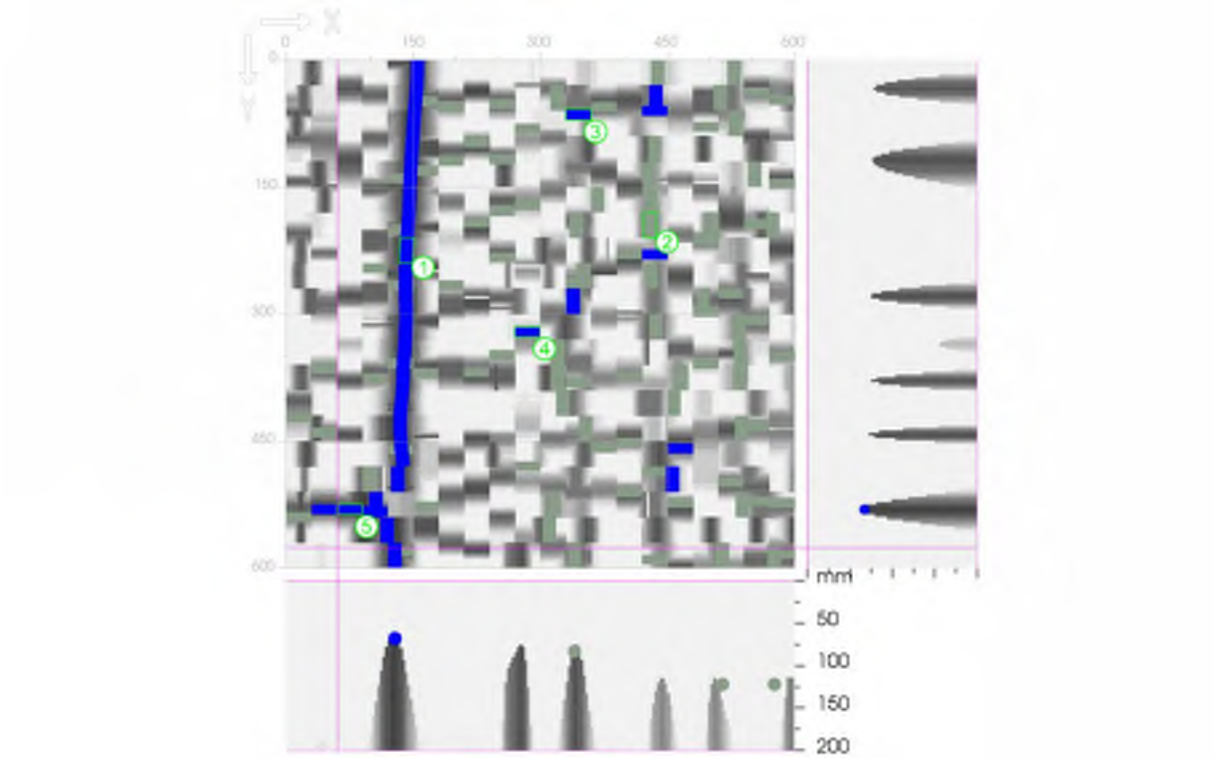
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 81	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	16 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	293 mm	165 mm	67 mm	25 mm	Vertical	High
2.	165 mm	177 mm	57 mm	16 mm	Horizontal	High
3.	195 mm	437 mm	56 mm	16 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	84.fscan
Serial number:	227190008
Date / Time:	2021-08-12 12:52:22
Comment:	-



x: 62 mm	y: 576 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

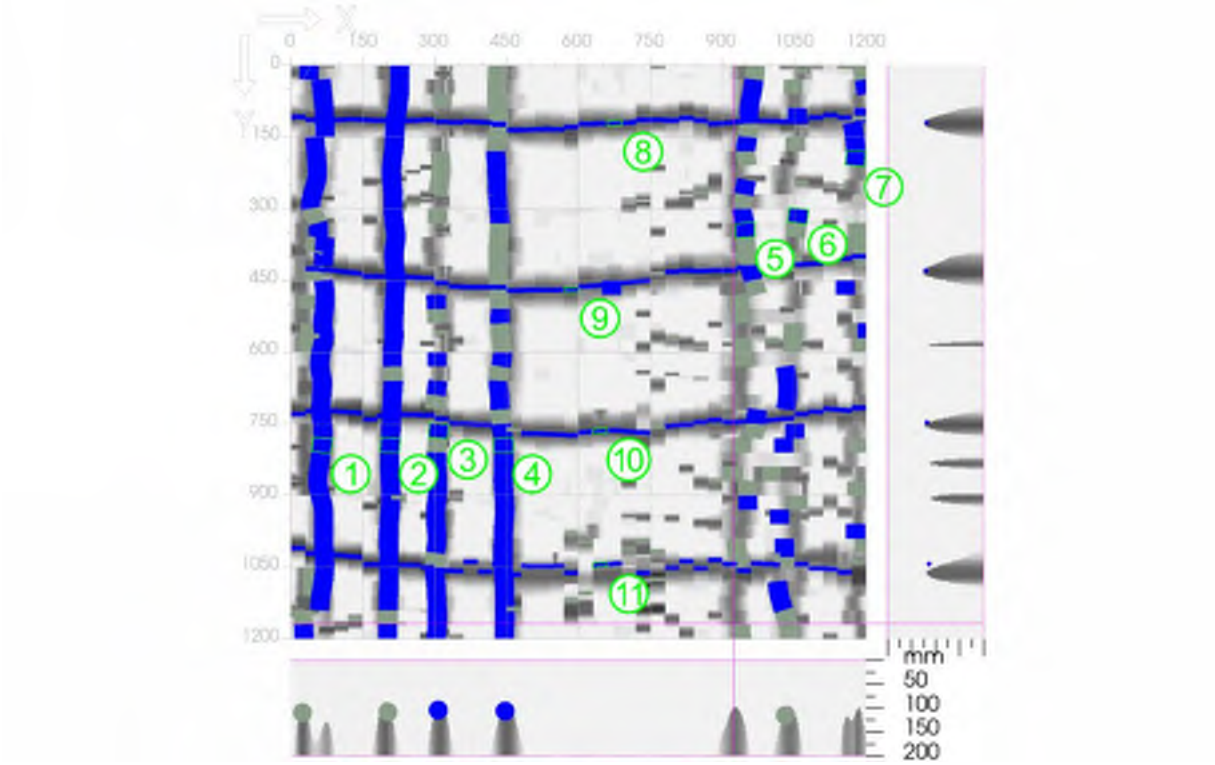
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 84	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	142 mm	225 mm	61 mm	16 mm	Vertical	High
2.	429 mm	195 mm	93 mm	16 mm	Vertical	Low
3.	345 mm	65 mm	94 mm	12 mm	Horizontal	High
4.	285 mm	321 mm	126 mm	12 mm	Horizontal	High
5.	75 mm	531 mm	61 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	85 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-08-12 13:53:03
Comment:	-



x: 925 mm	y: 1168 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 85 East Face	Object:	Column
User:	BD		
Comment:	Main bar size is 36mm Smooth		

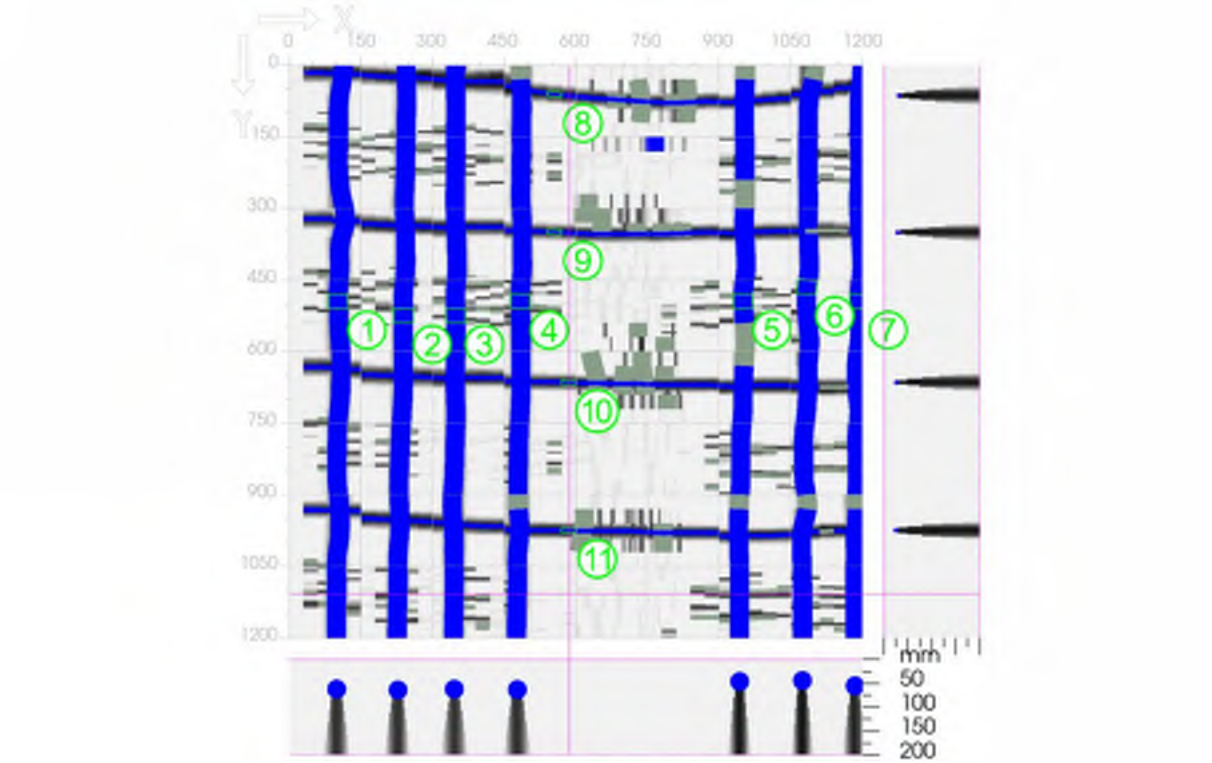
Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	40 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	65 mm	795 mm	91 mm	40 mm	Vertical	High
2.	207 mm	795 mm	86 mm	40 mm	Vertical	High
3.	309 mm	765 mm	90 mm	40 mm	Vertical	High
4.	443 mm	795 mm	86 mm	40 mm	Vertical	High
5.	950 mm	345 mm	98 mm	40 mm	Vertical	High
6.	1060 mm	315 mm	107 mm	40 mm	Vertical	High
7.	1176 mm	195 mm	89 mm	40 mm	Vertical	High
8.	675 mm	121 mm	83 mm	10 mm	Horizontal	High
9.	585 mm	470 mm	87 mm	10 mm	Horizontal	High
10.	645 mm	765 mm	81 mm	10 mm	Horizontal	High

11.	645 mm	1046 mm	85 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	85 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-08-12 14:06:01
Comment:	-



x: 586 mm	y: 1108 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 85 South Face	Object:	Column
User:	BD		
Comment:	Main bar size is 36mm Smooth		

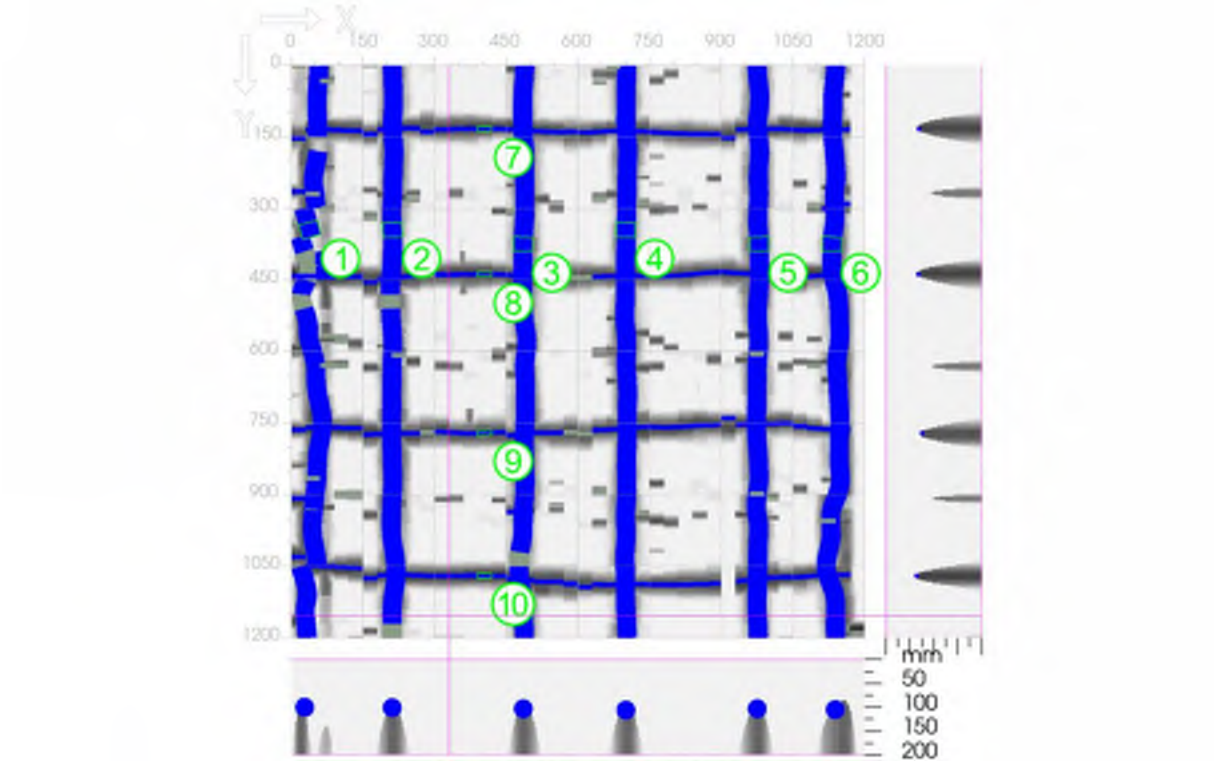
Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	40 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	103 mm	495 mm	45 mm	40 mm	Vertical	High
2.	239 mm	525 mm	43 mm	40 mm	Vertical	High
3.	349 mm	525 mm	42 mm	40 mm	Vertical	High
4.	484 mm	495 mm	38 mm	40 mm	Vertical	High
5.	951 mm	495 mm	28 mm	40 mm	Vertical	High
6.	1082 mm	465 mm	29 mm	40 mm	Vertical	High
7.	1194 mm	495 mm	34 mm	40 mm	Vertical	High
8.	555 mm	61 mm	27 mm	10 mm	Horizontal	High
9.	555 mm	350 mm	24 mm	10 mm	Horizontal	High
10.	585 mm	665 mm	21 mm	10 mm	Horizontal	High

11.	585 mm	974 mm	20 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	86 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-08-12 12:24:51
Comment:	-



x: 331 mm	y: 1153 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

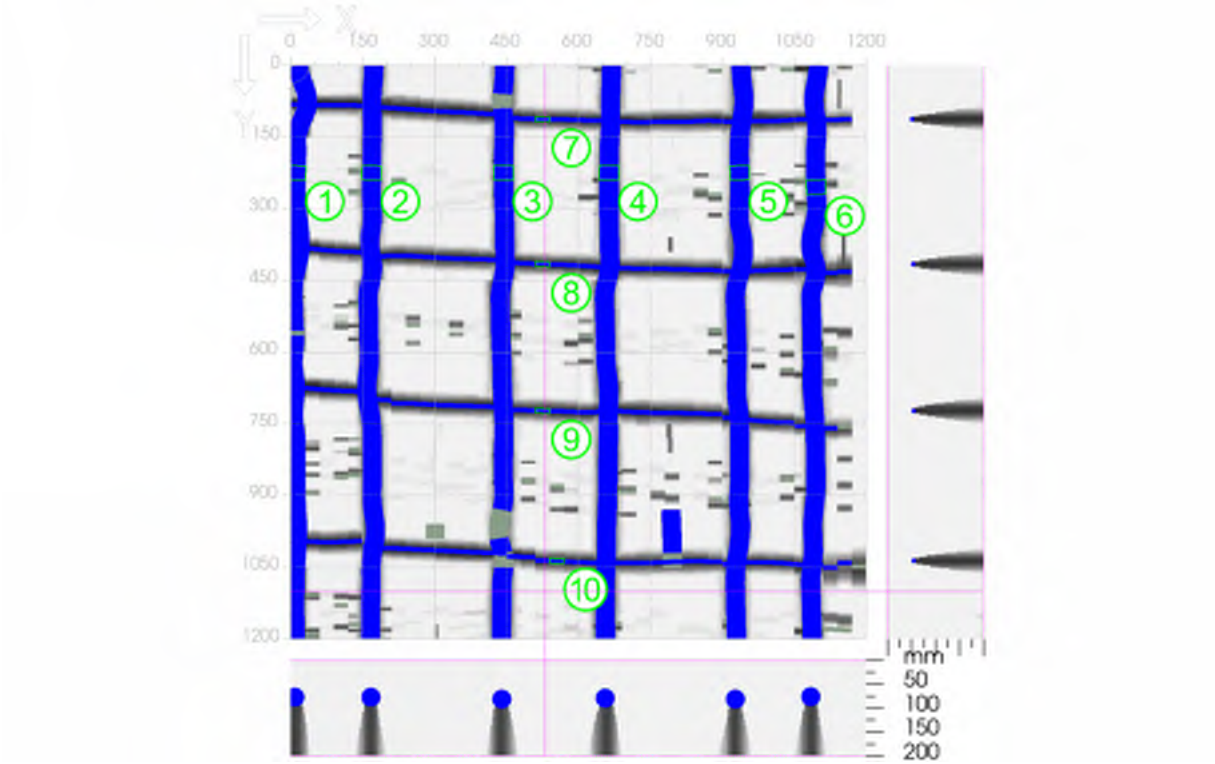
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 86 South Face	Object:	Column
User:	BD		
Comment:	Main bar size is 36mm Smooth		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	40 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	43 mm	345 mm	80 mm	40 mm	Vertical	High
2.	213 mm	345 mm	81 mm	40 mm	Vertical	High
3.	485 mm	375 mm	85 mm	40 mm	Vertical	High
4.	701 mm	345 mm	82 mm	40 mm	Vertical	High
5.	980 mm	375 mm	79 mm	40 mm	Vertical	High
6.	1132 mm	375 mm	76 mm	40 mm	Vertical	High
7.	405 mm	134 mm	62 mm	10 mm	Horizontal	High
8.	405 mm	438 mm	63 mm	10 mm	Horizontal	High
9.	405 mm	770 mm	72 mm	10 mm	Horizontal	High
10.	405 mm	1069 mm	58 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	86 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-08-12 12:20:00
Comment:	-



x: 530 mm	y: 1101 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

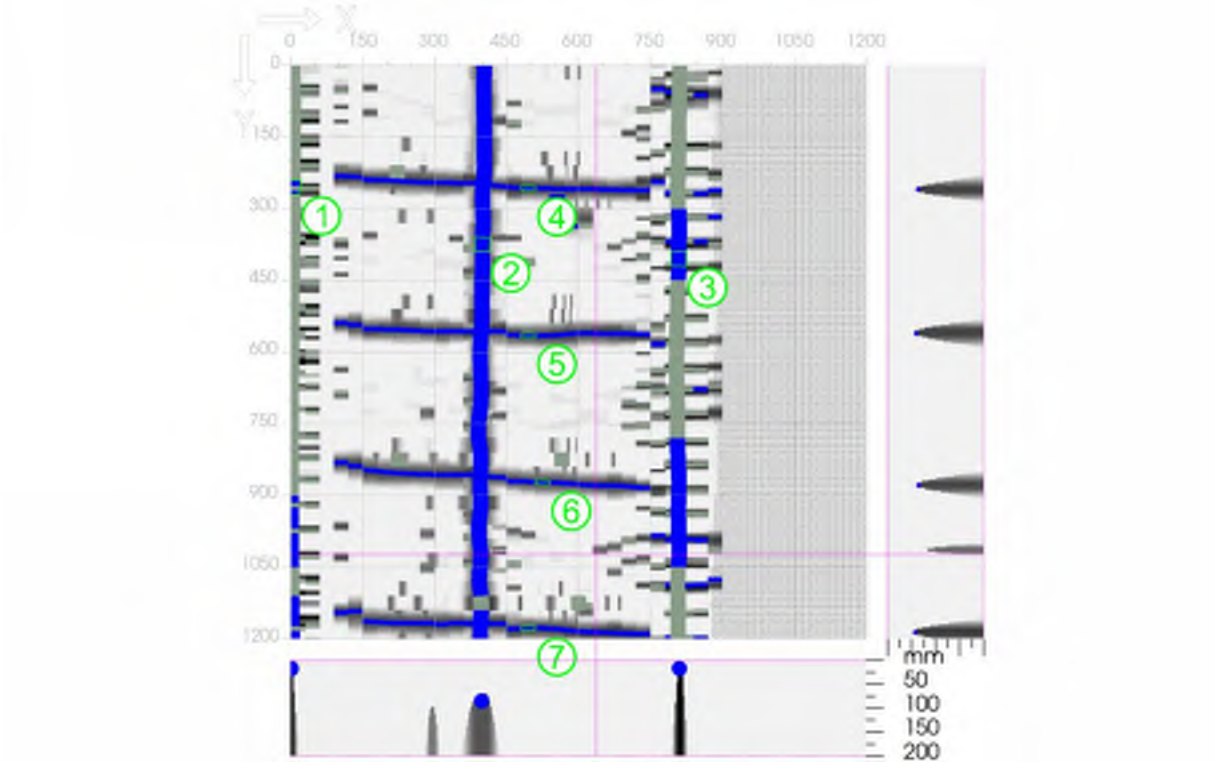
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 86 West Face	Object:	Column
User:	BD		
Comment:	Main bar size is 36mm Smooth		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	40 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	11 mm	225 mm	58 mm	40 mm	Vertical	High
2.	168 mm	225 mm	57 mm	40 mm	Vertical	High
3.	444 mm	225 mm	59 mm	40 mm	Vertical	High
4.	664 mm	225 mm	58 mm	40 mm	Vertical	High
5.	936 mm	225 mm	57 mm	40 mm	Vertical	High
6.	1095 mm	255 mm	57 mm	40 mm	Vertical	High
7.	525 mm	113 mm	46 mm	10 mm	Horizontal	High
8.	525 mm	416 mm	48 mm	10 mm	Horizontal	High
9.	525 mm	723 mm	49 mm	10 mm	Horizontal	High
10.	555 mm	1037 mm	49 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	87 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-08-10 16:52:29
Comment:	-



x: 637 mm	y: 1023 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

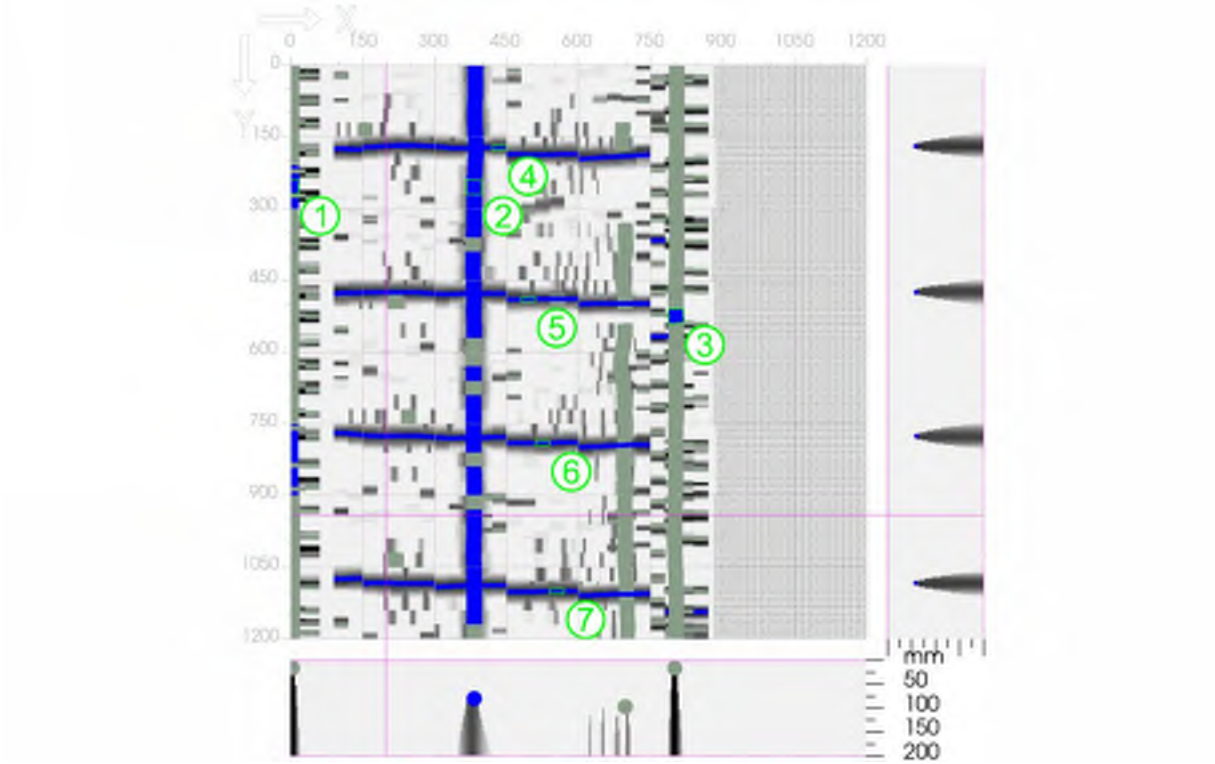
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 87 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	4 mm	255 mm	0 mm	32 mm	Vertical	High
2.	399 mm	375 mm	69 mm	32 mm	Vertical	High
3.	809 mm	405 mm	0 mm	32 mm	Vertical	High
4.	495 mm	257 mm	57 mm	10 mm	Horizontal	High
5.	495 mm	565 mm	59 mm	10 mm	Horizontal	High
6.	525 mm	873 mm	63 mm	10 mm	Horizontal	High
7.	495 mm	1178 mm	58 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	87 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-08-10 16:48:37
Comment:	-



x: 199 mm	y: 942 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

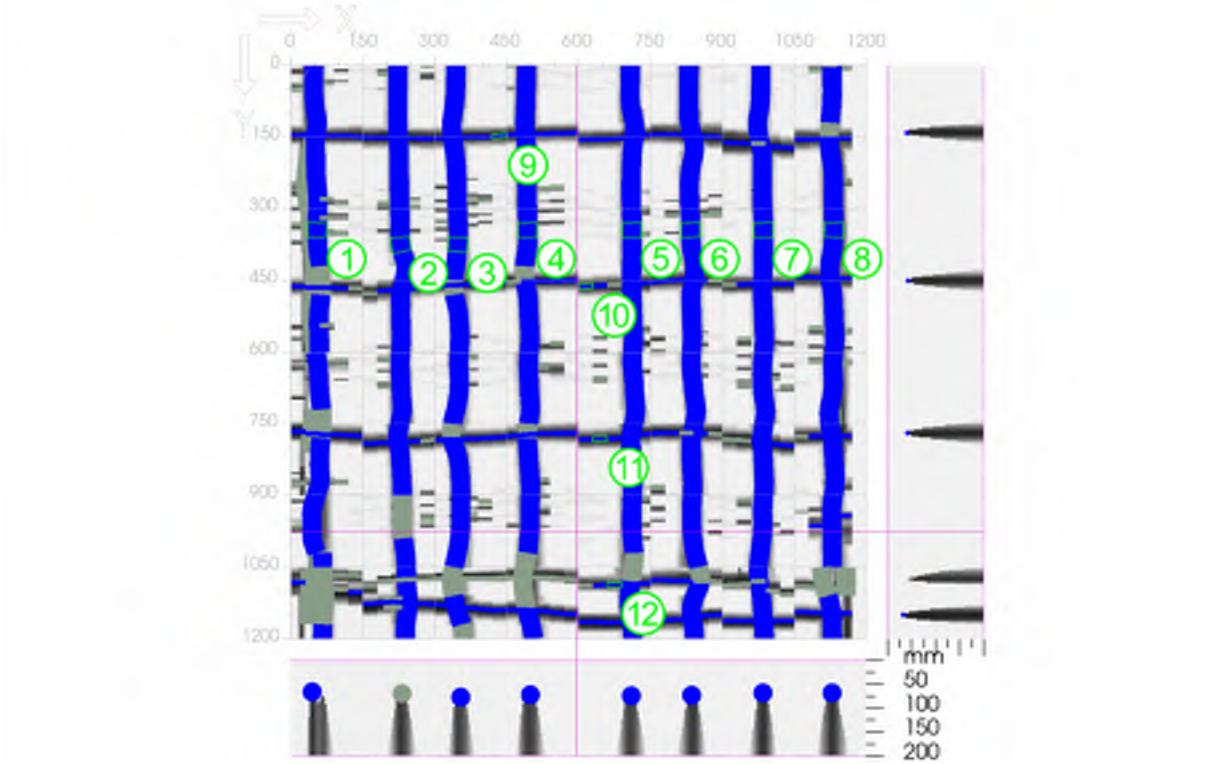
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 87 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	1 mm	255 mm	1 mm	32 mm	Vertical	High
2.	383 mm	255 mm	63 mm	32 mm	Vertical	High
3.	804 mm	525 mm	0 mm	32 mm	Vertical	High
4.	435 mm	172 mm	55 mm	10 mm	Horizontal	High
5.	495 mm	489 mm	56 mm	10 mm	Horizontal	High
6.	525 mm	790 mm	57 mm	10 mm	Horizontal	High
7.	555 mm	1100 mm	51 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	89 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-08-12 13:40:17
Comment:	-



x: 596 mm	y: 974 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 89 East Face	Object:	Column
User:	BD		
Comment:	Main bar size is 36mm Smooth		

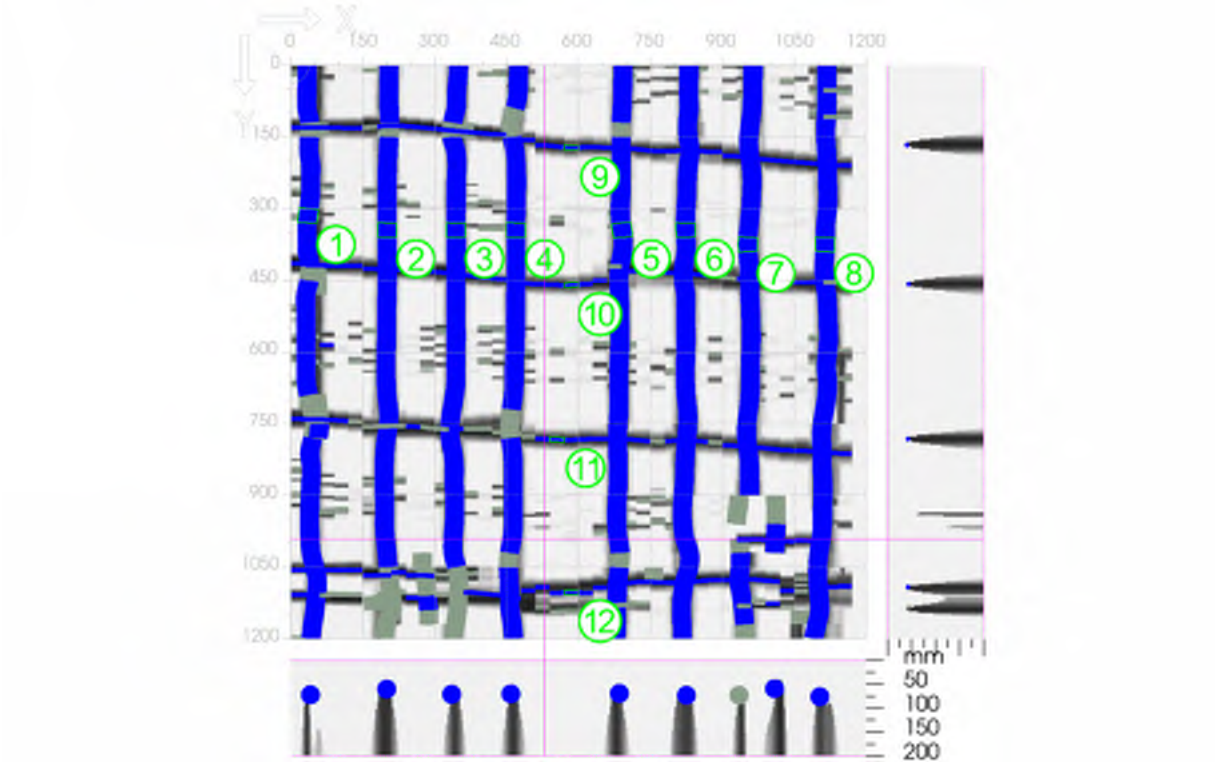
Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	40 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	57 mm	345 mm	46 mm	40 mm	Vertical	High
2.	227 mm	375 mm	45 mm	40 mm	Vertical	High
3.	349 mm	375 mm	51 mm	40 mm	Vertical	High
4.	493 mm	345 mm	44 mm	40 mm	Vertical	High
5.	711 mm	345 mm	47 mm	40 mm	Vertical	High
6.	834 mm	345 mm	50 mm	40 mm	Vertical	High
7.	985 mm	345 mm	49 mm	40 mm	Vertical	High
8.	1132 mm	345 mm	52 mm	40 mm	Vertical	High
9.	435 mm	149 mm	33 mm	10 mm	Horizontal	High
10.	615 mm	463 mm	37 mm	10 mm	Horizontal	High

11.	645 mm	782 mm	35 mm	10 mm	Horizontal	High
12.	675 mm	1087 mm	42 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	89 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-08-12 13:32:42
Comment:	-



x: 529 mm	y: 991 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 89 South Face	Object:	Column
User:	BD		
Comment:	Main bar size is 36mm Smooth		

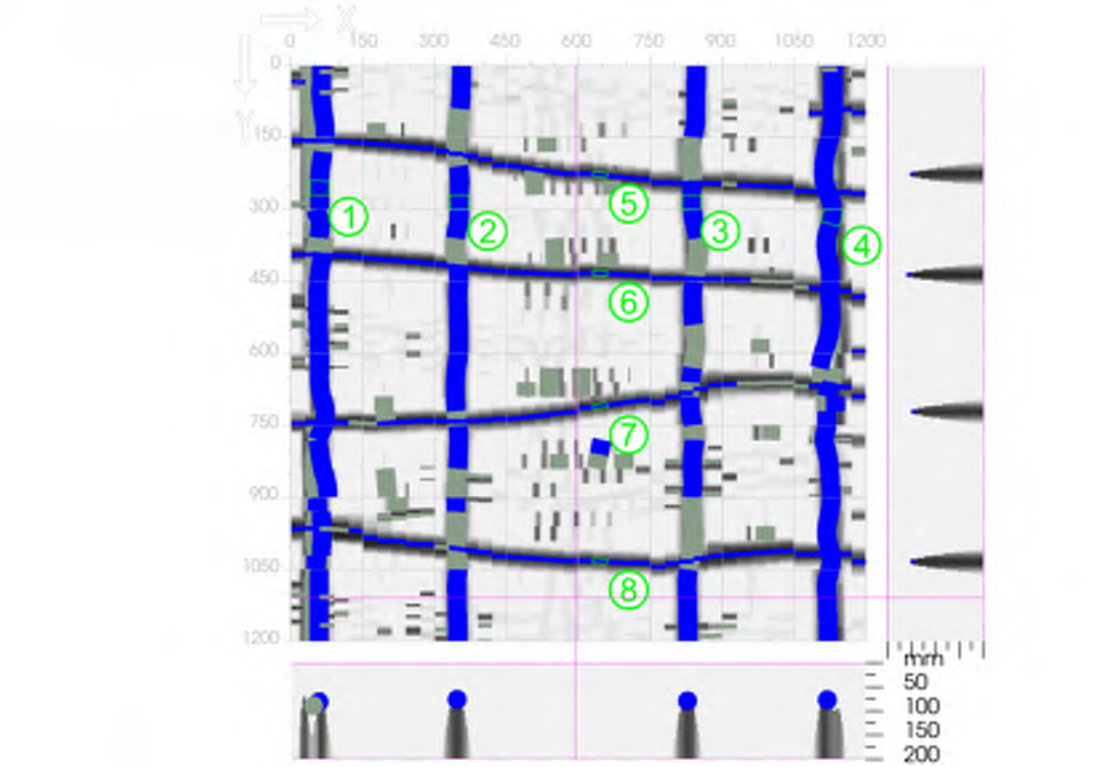
Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	40 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	34 mm	315 mm	50 mm	40 mm	Vertical	High
2.	201 mm	345 mm	47 mm	40 mm	Vertical	High
3.	344 mm	345 mm	52 mm	40 mm	Vertical	High
4.	469 mm	345 mm	48 mm	40 mm	Vertical	High
5.	692 mm	345 mm	46 mm	40 mm	Vertical	High
6.	823 mm	345 mm	53 mm	40 mm	Vertical	High
7.	952 mm	375 mm	54 mm	40 mm	Vertical	High
8.	1115 mm	375 mm	59 mm	40 mm	Vertical	High
9.	585 mm	174 mm	40 mm	10 mm	Horizontal	High
10.	585 mm	461 mm	39 mm	10 mm	Horizontal	High

11.	555 mm	783 mm	38 mm	10 mm	Horizontal	High
12.	585 mm	1103 mm	38 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	90 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-08-12 13:23:08
Comment:	-



x: 594 mm	y: 1109 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

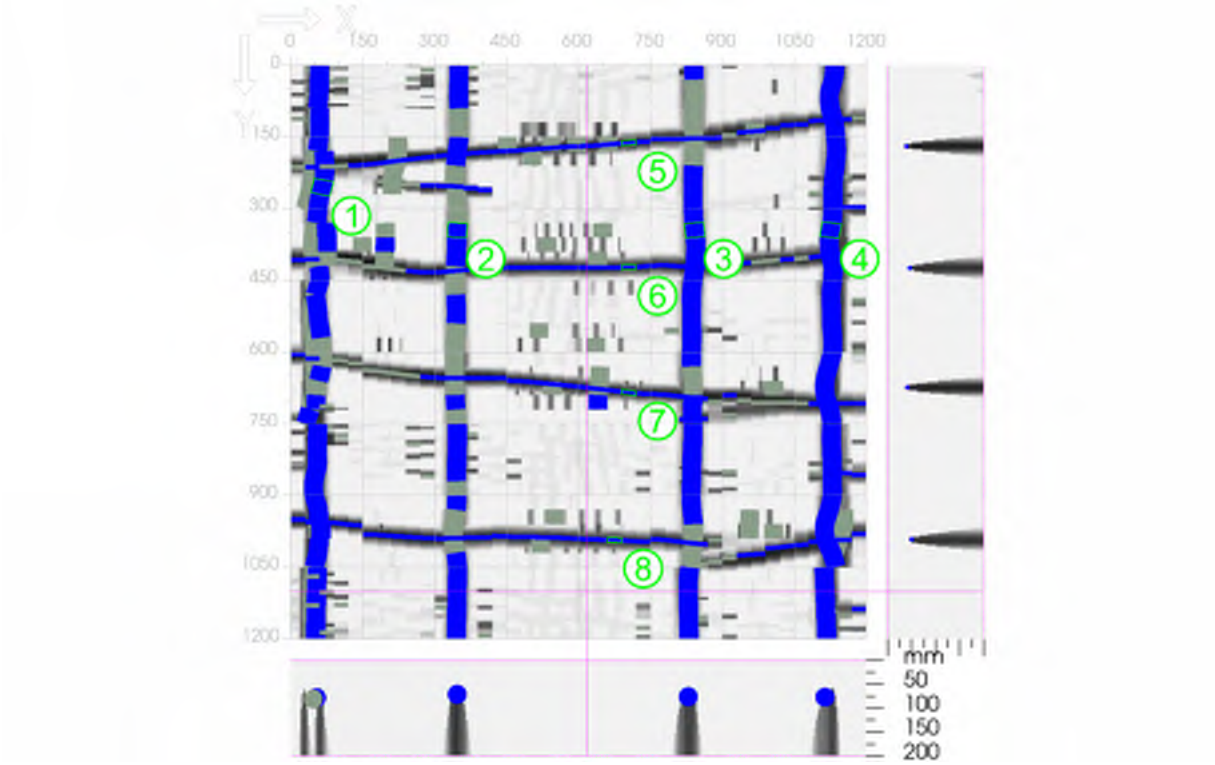
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 90 South Face	Object:	Column
User:	BD		
Comment:	Main bar size is 36mm Smooth		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	40 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	60 mm	255 mm	53 mm	40 mm	Vertical	High
2.	351 mm	285 mm	54 mm	40 mm	Vertical	High
3.	836 mm	285 mm	60 mm	40 mm	Vertical	High
4.	1131 mm	315 mm	61 mm	40 mm	Vertical	High
5.	645 mm	228 mm	47 mm	10 mm	Horizontal	High
6.	645 mm	433 mm	40 mm	10 mm	Horizontal	High
7.	645 mm	710 mm	50 mm	10 mm	Horizontal	High
8.	645 mm	1033 mm	47 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	90 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-08-12 13:18:11
Comment:	-



x: 617 mm	y: 1101 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

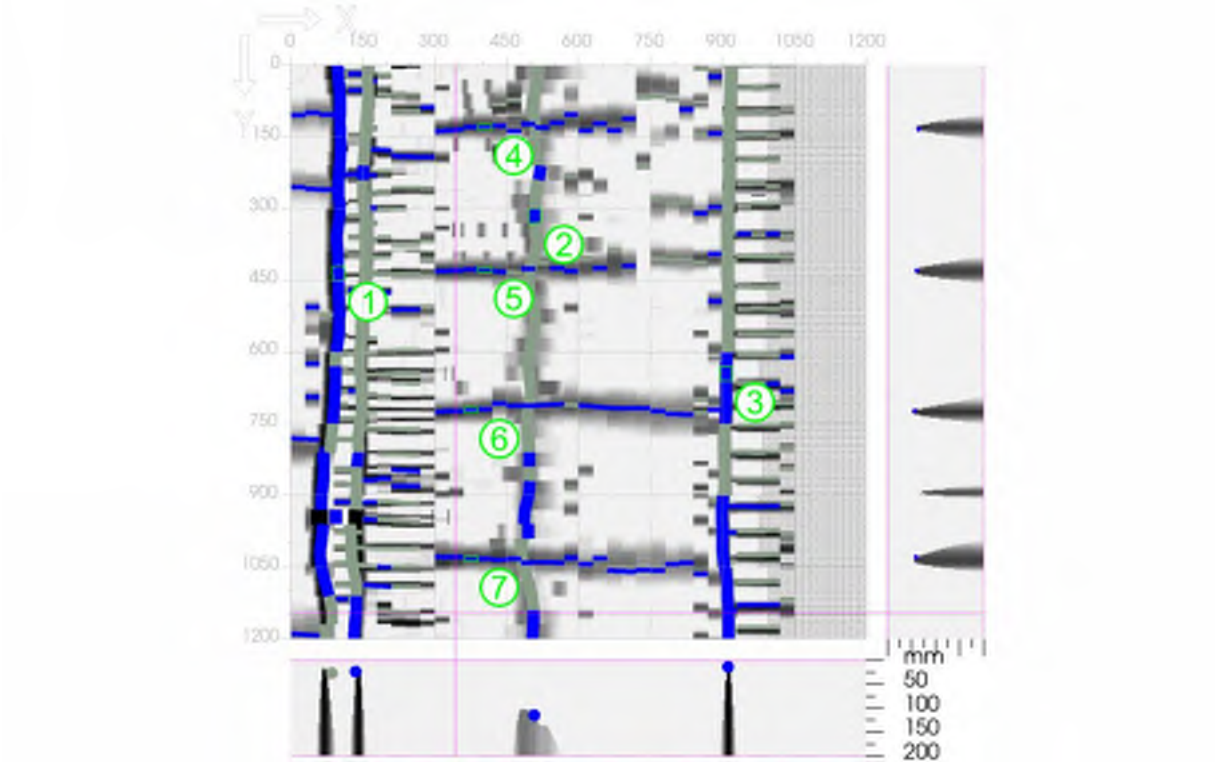
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 90 West Face	Object:	Column
User:	BD		
Comment:	Main bar size is 36mm Smooth		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	40 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	66 mm	255 mm	45 mm	40 mm	Vertical	High
2.	347 mm	345 mm	49 mm	40 mm	Vertical	High
3.	843 mm	345 mm	56 mm	40 mm	Vertical	High
4.	1126 mm	345 mm	63 mm	40 mm	Vertical	High
5.	705 mm	162 mm	37 mm	10 mm	Horizontal	High
6.	705 mm	422 mm	42 mm	10 mm	Horizontal	High
7.	705 mm	685 mm	37 mm	10 mm	Horizontal	High
8.	675 mm	993 mm	46 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	91 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-08-10 16:43:08
Comment:	-



x: 344 mm	y: 1146 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

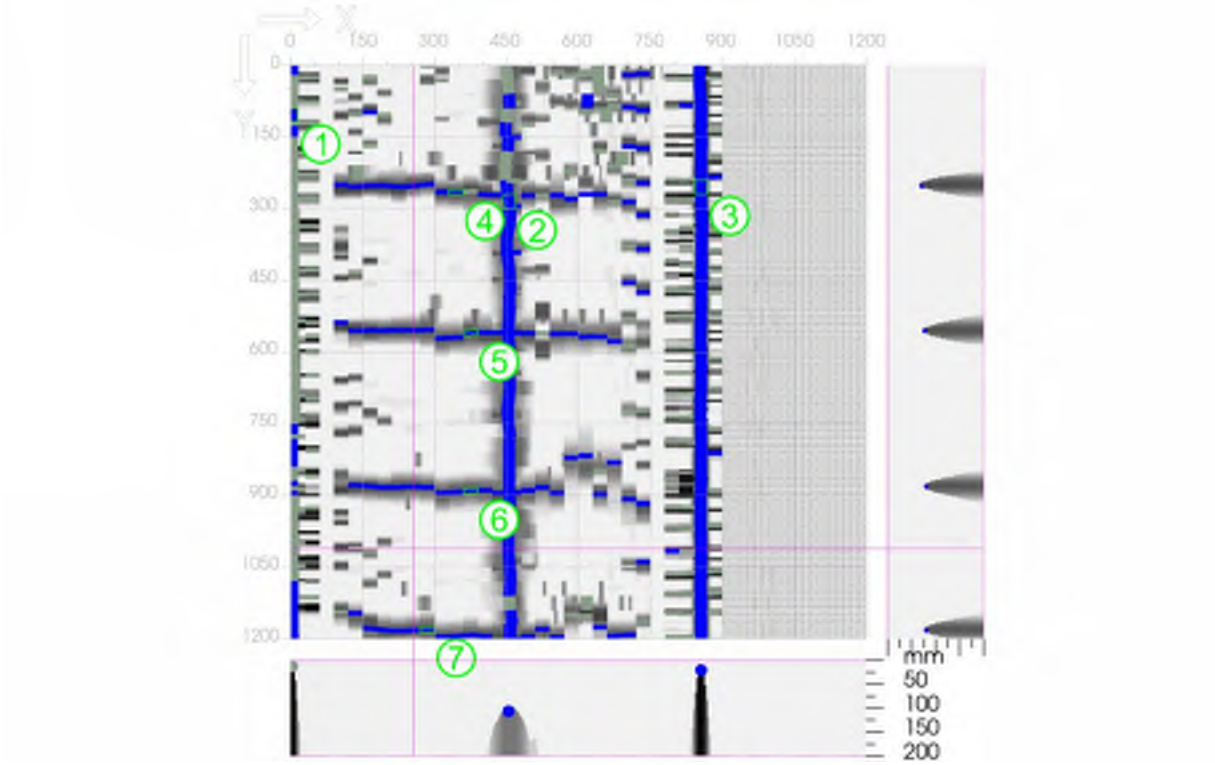
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 91 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	101 mm	435 mm	15 mm	25 mm	Vertical	High
2.	510 mm	315 mm	80 mm	25 mm	Vertical	High
3.	908 mm	645 mm	1 mm	25 mm	Vertical	High
4.	405 mm	129 mm	65 mm	10 mm	Horizontal	High
5.	405 mm	428 mm	63 mm	10 mm	Horizontal	High
6.	375 mm	721 mm	56 mm	10 mm	Horizontal	High
7.	375 mm	1032 mm	59 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	91 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-08-10 16:34:15
Comment:	-



x: 255 mm	y: 1011 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

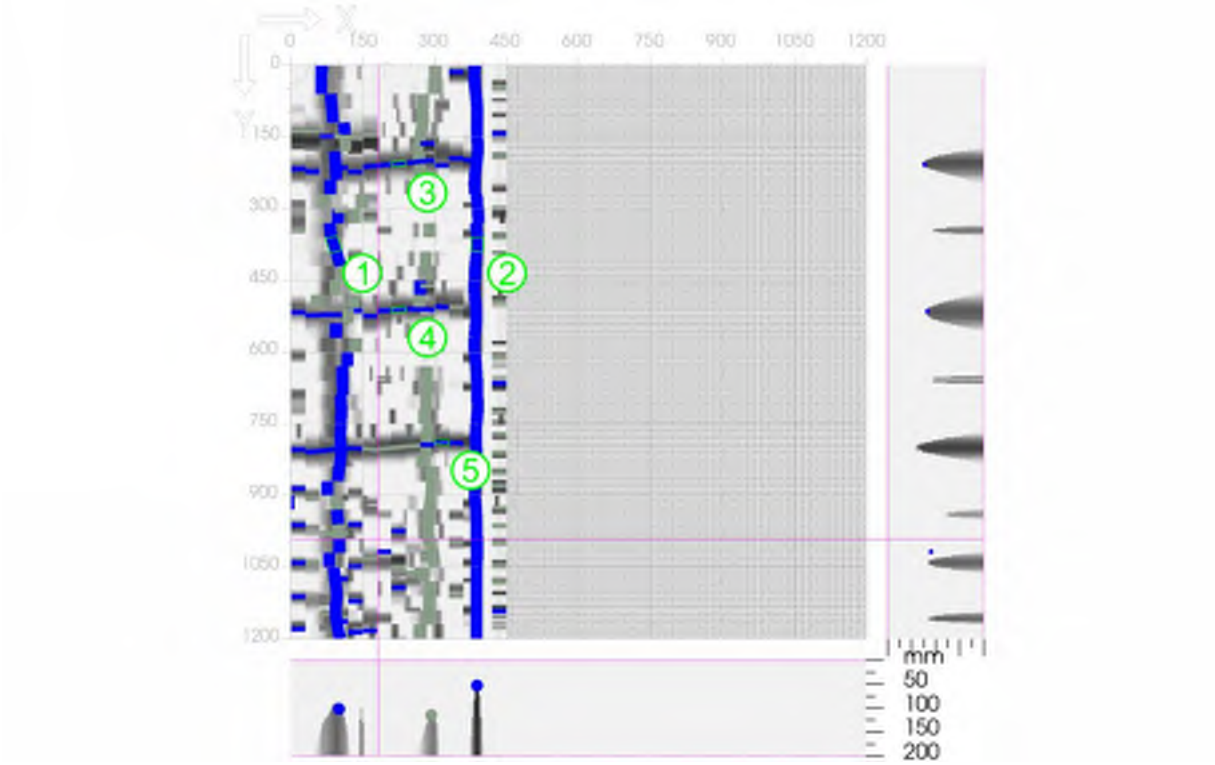
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 91 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	3 mm	105 mm	1 mm	25 mm	Vertical	High
2.	454 mm	285 mm	69 mm	25 mm	Vertical	High
3.	856 mm	255 mm	9 mm	25 mm	Vertical	High
4.	345 mm	266 mm	68 mm	10 mm	Horizontal	High
5.	375 mm	560 mm	75 mm	10 mm	Horizontal	High
6.	375 mm	891 mm	78 mm	10 mm	Horizontal	High
7.	285 mm	1180 mm	76 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	92 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-08-12 13:03:04
Comment:	-



x: 183 mm	y: 991 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

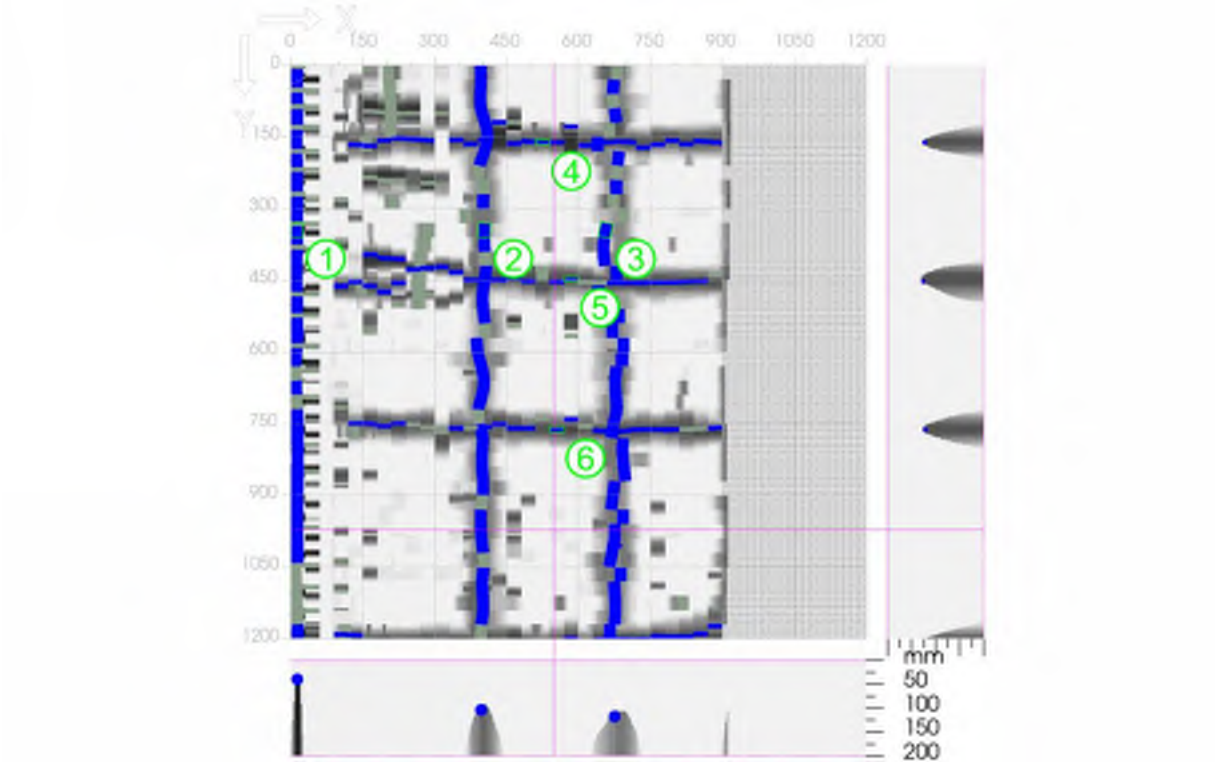
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 92 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	89 mm	375 mm	104 mm	25 mm	Vertical	High
2.	391 mm	375 mm	26 mm	25 mm	Vertical	High
3.	225 mm	207 mm	70 mm	10 mm	Horizontal	High
4.	225 mm	510 mm	75 mm	10 mm	Horizontal	High
5.	315 mm	788 mm	58 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	92 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-08-12 12:58:01
Comment:	-



x: 549 mm	y: 971 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

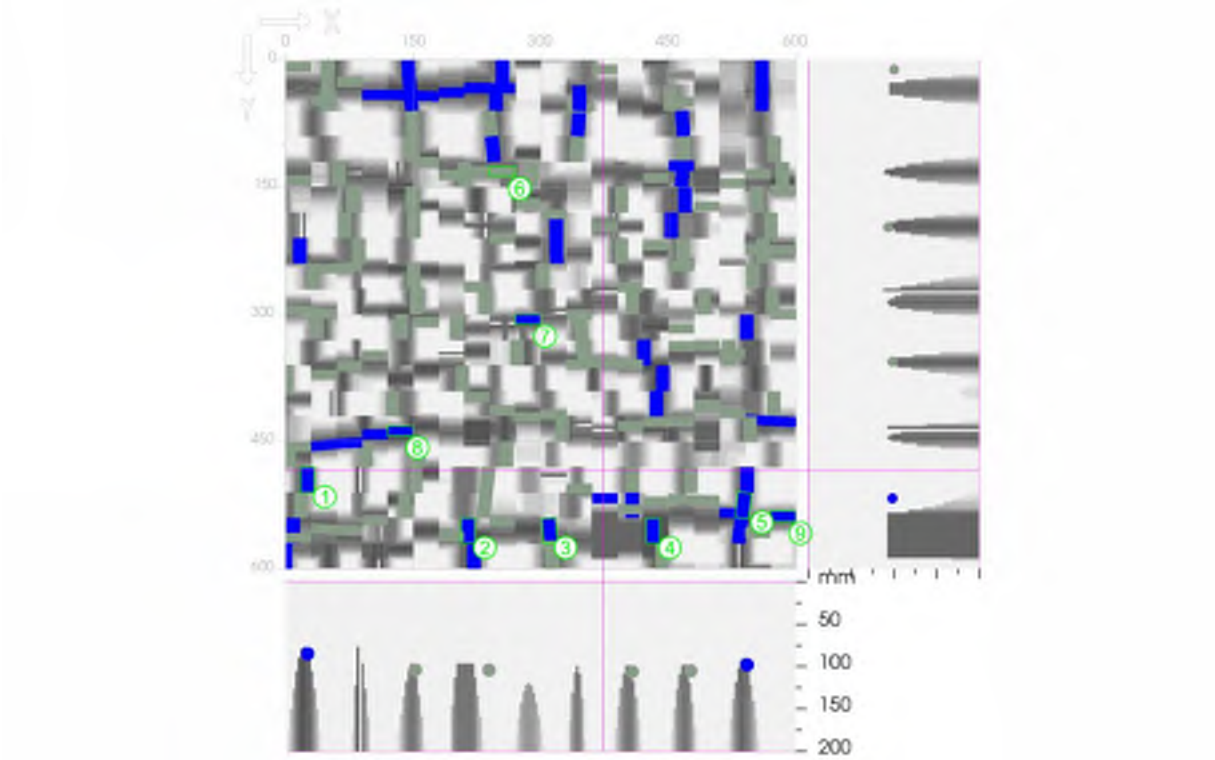
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 92 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	13 mm	345 mm	35 mm	25 mm	Vertical	High
2.	404 mm	345 mm	98 mm	25 mm	Vertical	High
3.	660 mm	345 mm	117 mm	25 mm	Vertical	High
4.	525 mm	162 mm	73 mm	10 mm	Horizontal	High
5.	585 mm	447 mm	70 mm	10 mm	Horizontal	High
6.	555 mm	762 mm	73 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	95.fscan
Serial number:	227190008
Date / Time:	2021-08-12 13:07:02
Comment:	-



x: 373 mm	y: 484 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

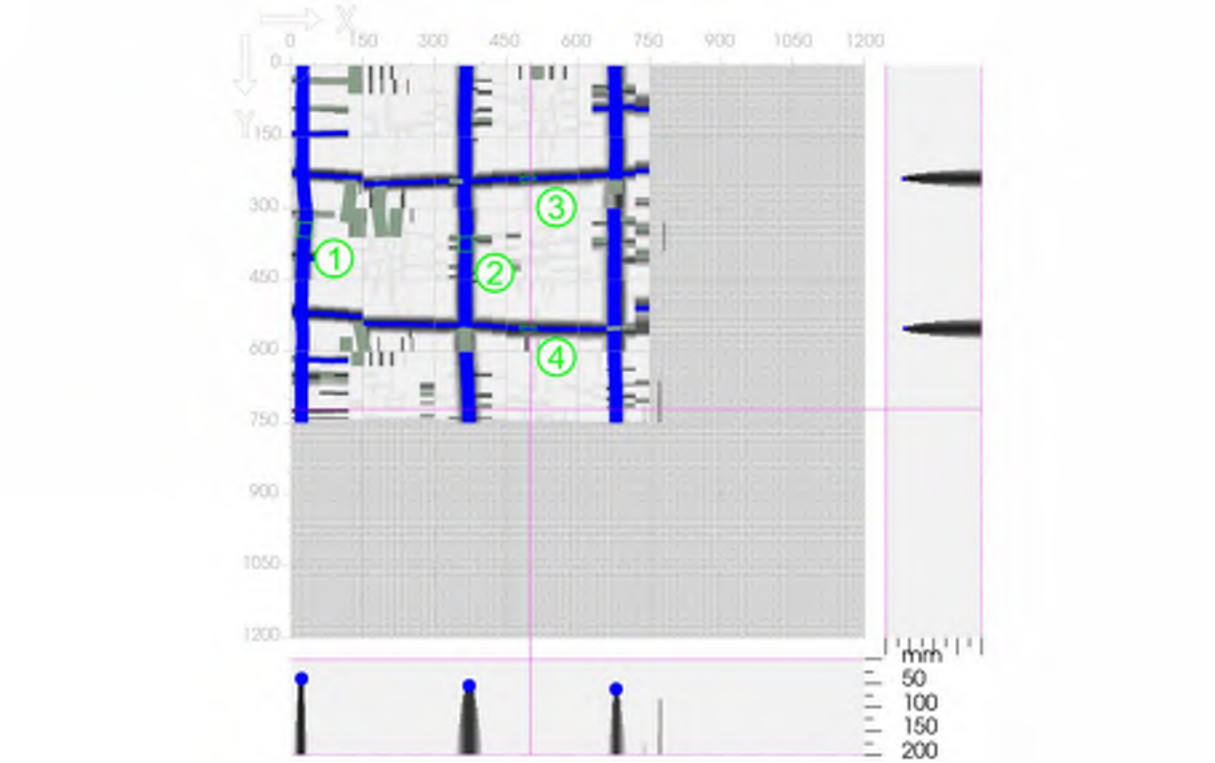
Project name:	CIS - B1	Customer:	CIS Tower
Location:	Level B1 Loc 95	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	26 mm	495 mm	77 mm	16 mm	Vertical	High
2.	214 mm	555 mm	97 mm	16 mm	Vertical	High
3.	309 mm	555 mm	95 mm	16 mm	Vertical	High
4.	431 mm	555 mm	95 mm	16 mm	Vertical	High
5.	540 mm	525 mm	98 mm	16 mm	Vertical	High
6.	255 mm	132 mm	89 mm	12 mm	Horizontal	Low
7.	285 mm	306 mm	71 mm	12 mm	Horizontal	High
8.	135 mm	437 mm	70 mm	12 mm	Horizontal	High
9.	585 mm	538 mm	86 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	100 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-07-27 15:57:53
Comment:	-



x: 501 mm	y: 719 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

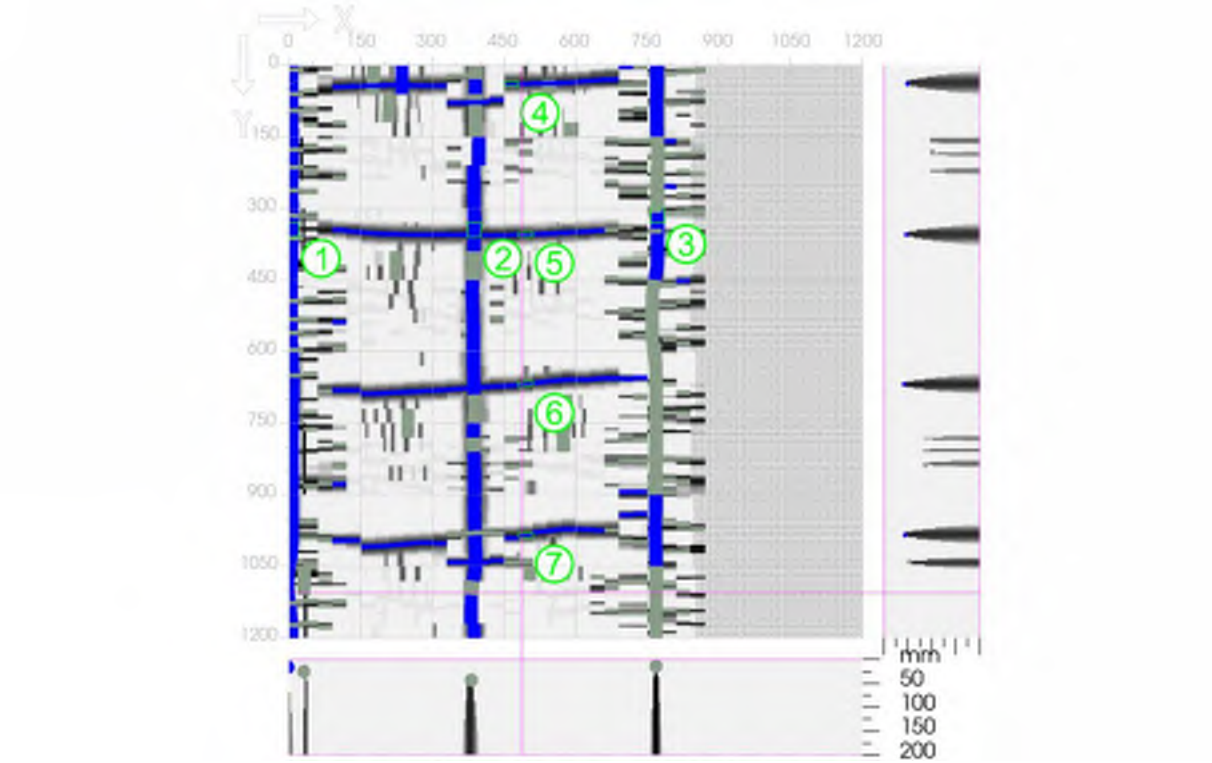
Project name:	CIS - L0	Customer:	CIS Tower
Location:	Level 0 Loc 100 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	30 mm	345 mm	32 mm	28 mm	Vertical	High
2.	366 mm	375 mm	37 mm	28 mm	Vertical	High
3.	495 mm	238 mm	32 mm	10 mm	Horizontal	High
4.	495 mm	551 mm	35 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	101 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-07-27 13:43:16
Comment:	-



x: 487 mm	y: 1106 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

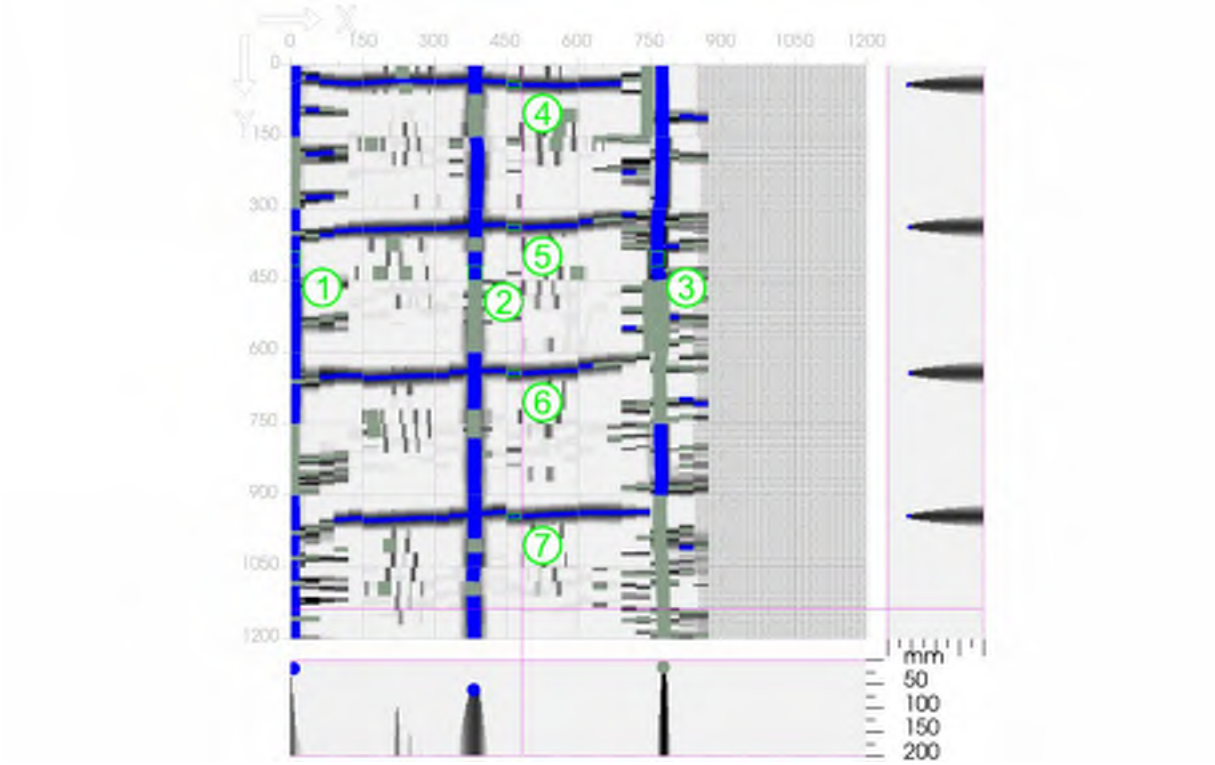
Project name:	CIS - L0	Customer:	CIS Tower
Location:	Level 0 Loc 101 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	7 mm	345 mm	2 mm	28 mm	Vertical	High
2.	388 mm	345 mm	50 mm	28 mm	Vertical	High
3.	771 mm	315 mm	2 mm	28 mm	Vertical	High
4.	465 mm	40 mm	43 mm	10 mm	Horizontal	High
5.	495 mm	355 mm	42 mm	10 mm	Horizontal	High
6.	495 mm	668 mm	37 mm	10 mm	Horizontal	High
7.	495 mm	985 mm	39 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	101 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-07-27 13:35:34
Comment:	-



x: 482 mm	y: 1137 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

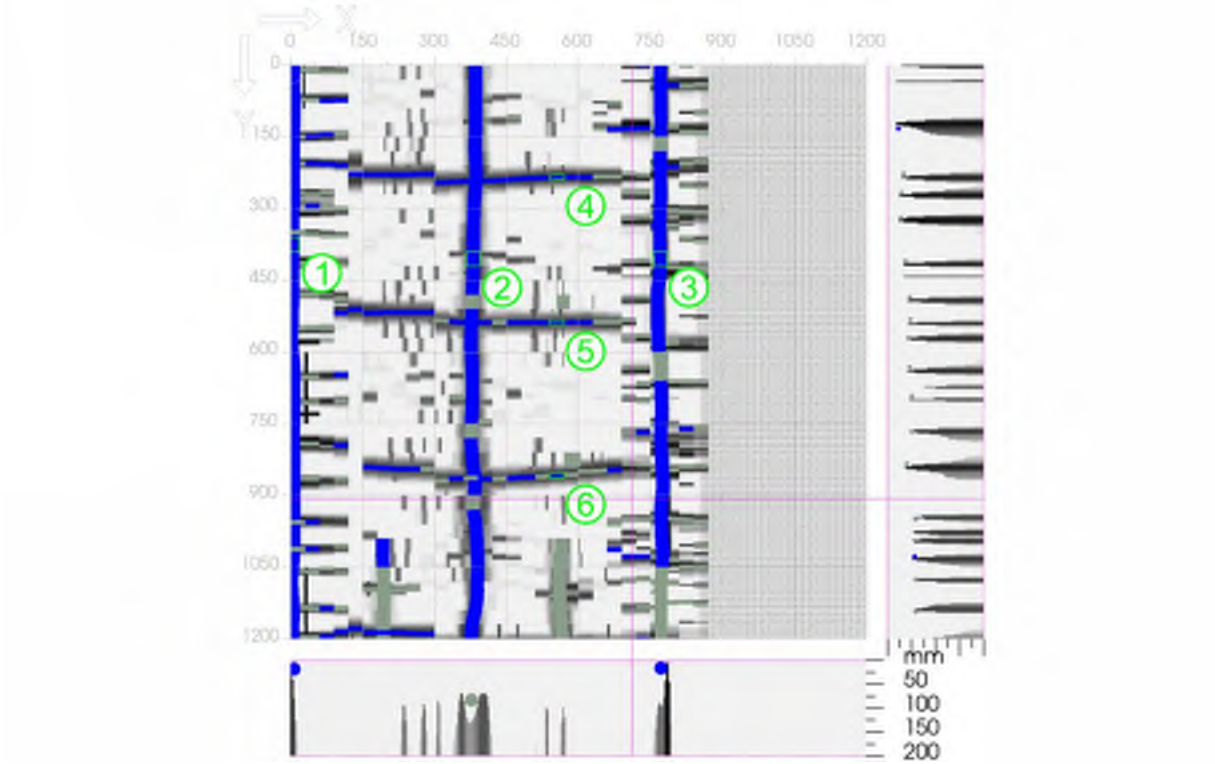
Project name:	CIS - L0	Customer:	CIS Tower
Location:	Level 0 Loc 101 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	5 mm	405 mm	1 mm	28 mm	Vertical	High
2.	384 mm	435 mm	41 mm	28 mm	Vertical	High
3.	765 mm	405 mm	3 mm	28 mm	Vertical	High
4.	465 mm	41 mm	38 mm	10 mm	Horizontal	High
5.	465 mm	339 mm	40 mm	10 mm	Horizontal	High
6.	465 mm	645 mm	41 mm	10 mm	Horizontal	High
7.	465 mm	945 mm	37 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	104 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-07-27 14:01:46
Comment:	-



x: 711 mm	y: 907 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

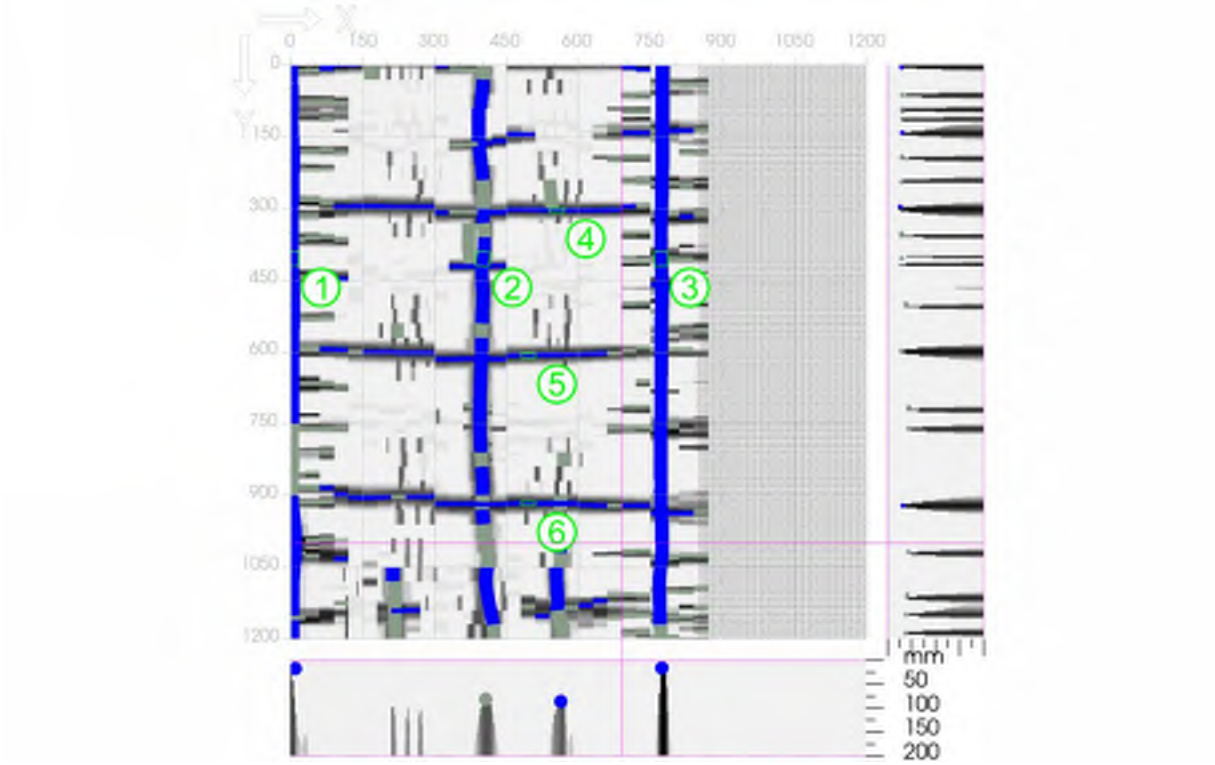
Project name:	CIS - L0	Customer:	CIS Tower
Location:	Level 0 Loc 104 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	5 mm	375 mm	1 mm	28 mm	Vertical	High
2.	381 mm	405 mm	64 mm	28 mm	Vertical	High
3.	770 mm	405 mm	1 mm	28 mm	Vertical	High
4.	555 mm	235 mm	48 mm	10 mm	Horizontal	High
5.	555 mm	539 mm	55 mm	10 mm	Horizontal	High
6.	555 mm	858 mm	52 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	104 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-07-27 14:06:44
Comment:	-



x: 691 mm	y: 1000 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

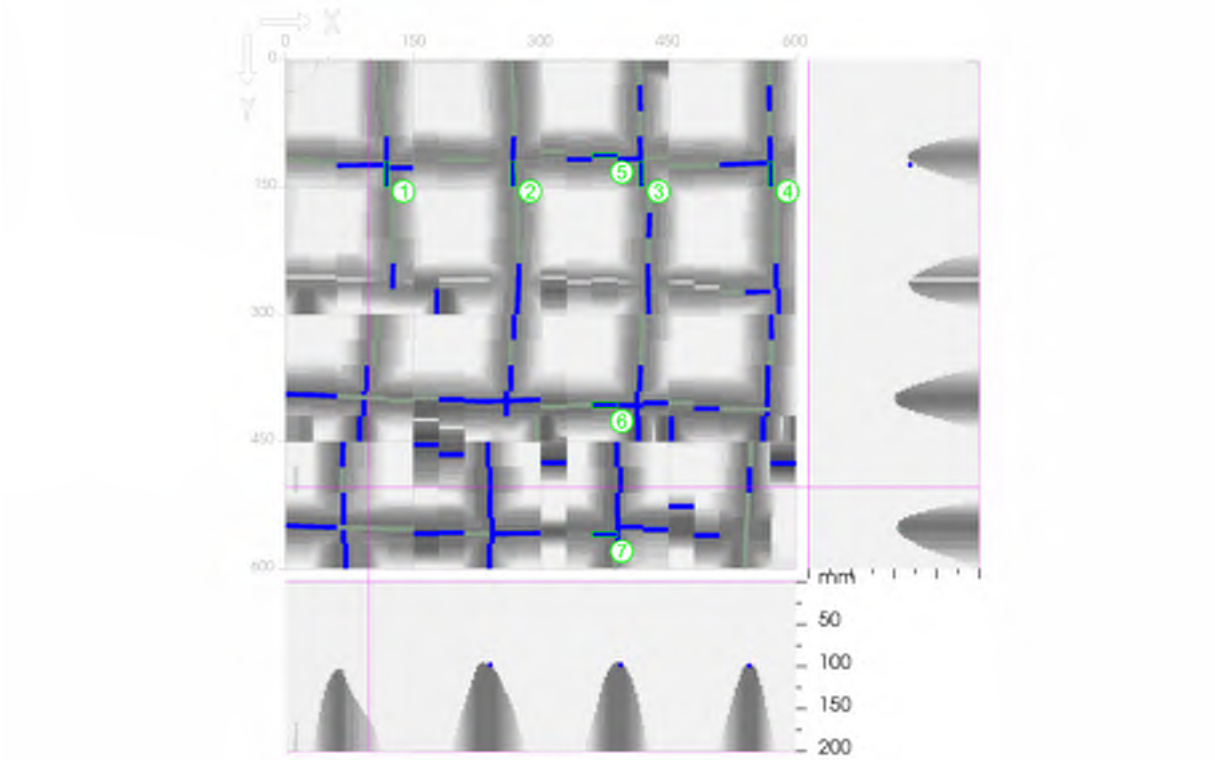
Project name:	CIS - L0	Customer:	CIS Tower
Location:	Level 0 Loc 104 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	3 mm	405 mm	0 mm	28 mm	Vertical	High
2.	402 mm	405 mm	47 mm	28 mm	Vertical	High
3.	772 mm	405 mm	3 mm	28 mm	Vertical	High
4.	555 mm	303 mm	36 mm	10 mm	Horizontal	High
5.	495 mm	607 mm	38 mm	10 mm	Horizontal	High
6.	495 mm	917 mm	40 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	112.fscan
Serial number:	227190008
Date / Time:	2021-07-27 15:42:03
Comment:	-



x: 98 mm	y: 503 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

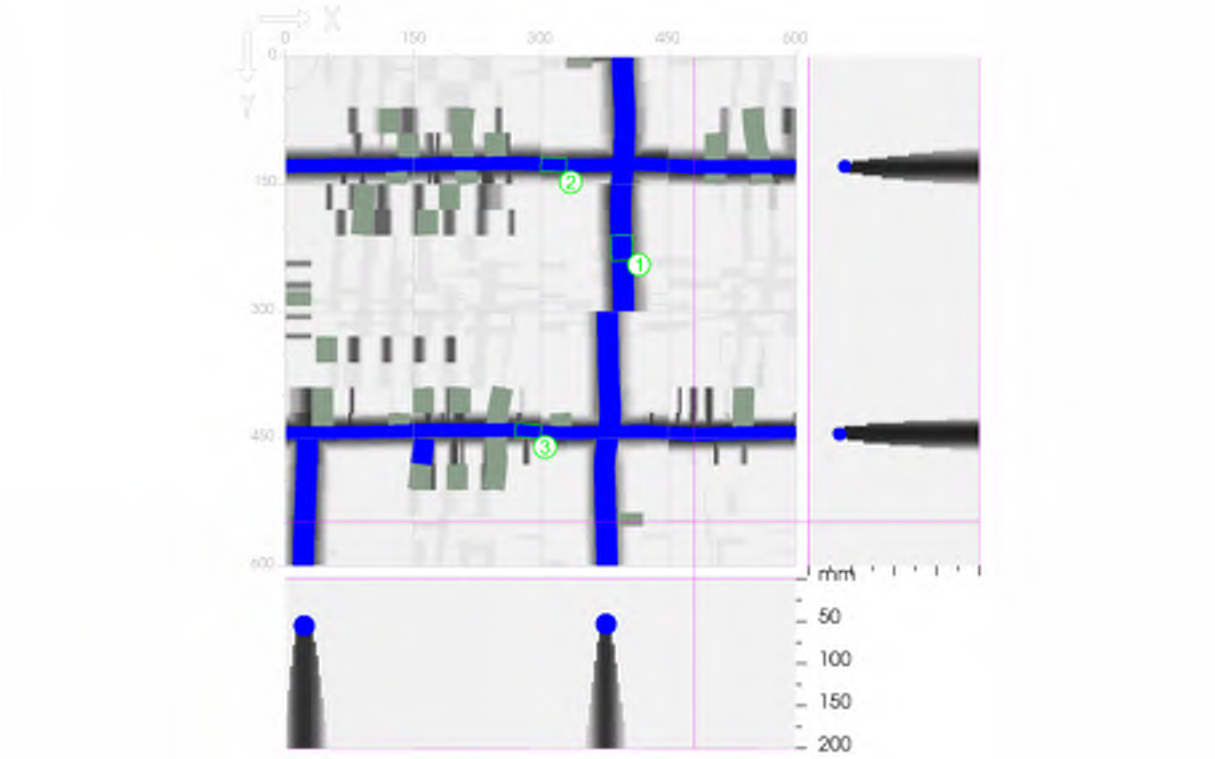
Project name:	CIS - L0	Customer:	CIS Tower
Location:	Level 0 Loc 112	Object:	Slab
User:	BD		
Comment:	All bar sizes are 3mm Smooth		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	6 mm +/- 0 mm	Type:	Input
Detection mode:	Auto		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	119 mm	135 mm	116 mm	6 mm	Vertical	High
2.	267 mm	135 mm	107 mm	6 mm	Vertical	High
3.	418 mm	135 mm	108 mm	6 mm	Vertical	High
4.	570 mm	135 mm	110 mm	6 mm	Vertical	High
5.	375 mm	112 mm	108 mm	6 mm	Horizontal	High
6.	375 mm	406 mm	101 mm	6 mm	Horizontal	High
7.	375 mm	559 mm	105 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	116.fscan
Serial number:	227190008
Date / Time:	2021-07-27 13:20:42
Comment:	-



x: 480 mm y: 548 mm z: 0 mm Thickness: 200 mm
Overlay: - mm

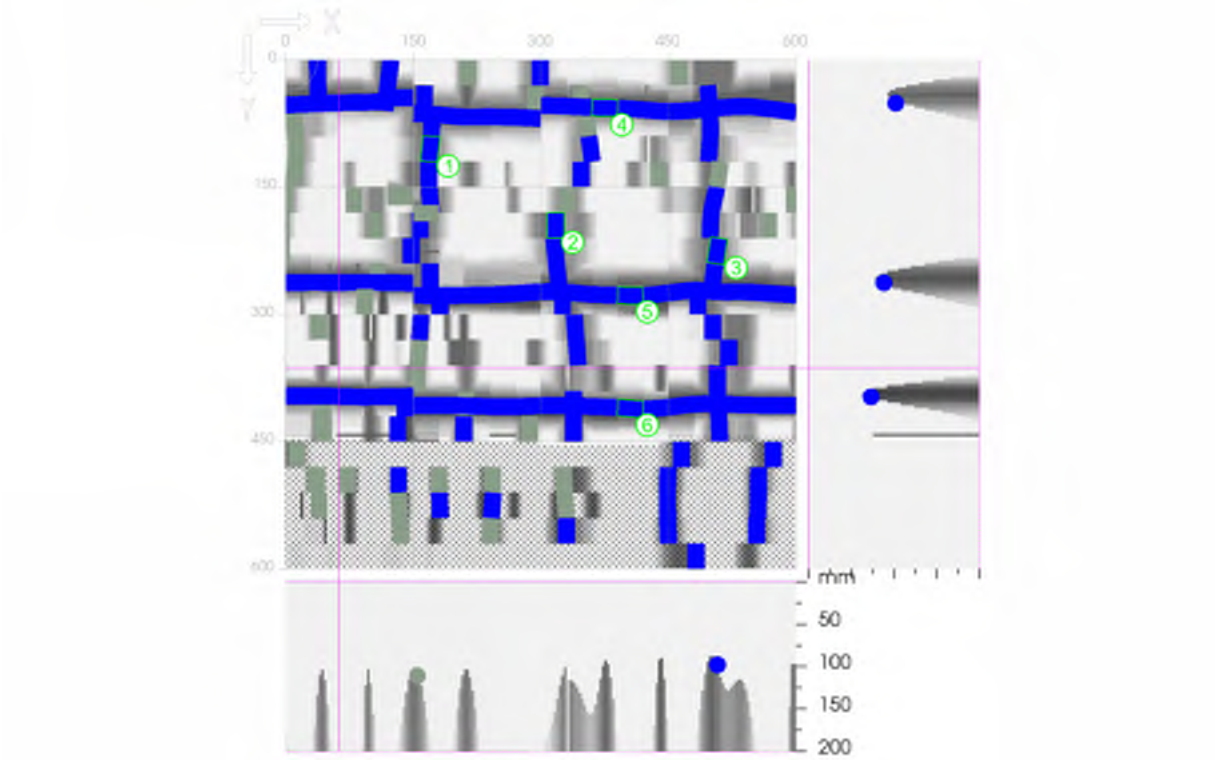
Project name:	CIS - L0	Customer:	CIS Tower
Location:	Level 0 Loc 116	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	16 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	395 mm	225 mm	48 mm	25 mm	Vertical	High
2.	315 mm	128 mm	34 mm	16 mm	Horizontal	High
3.	285 mm	440 mm	28 mm	16 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	117 slab.fscan
Serial number:	227190008
Date / Time:	2021-07-27 16:08:40
Comment:	-



x: 62 mm	y: 364 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

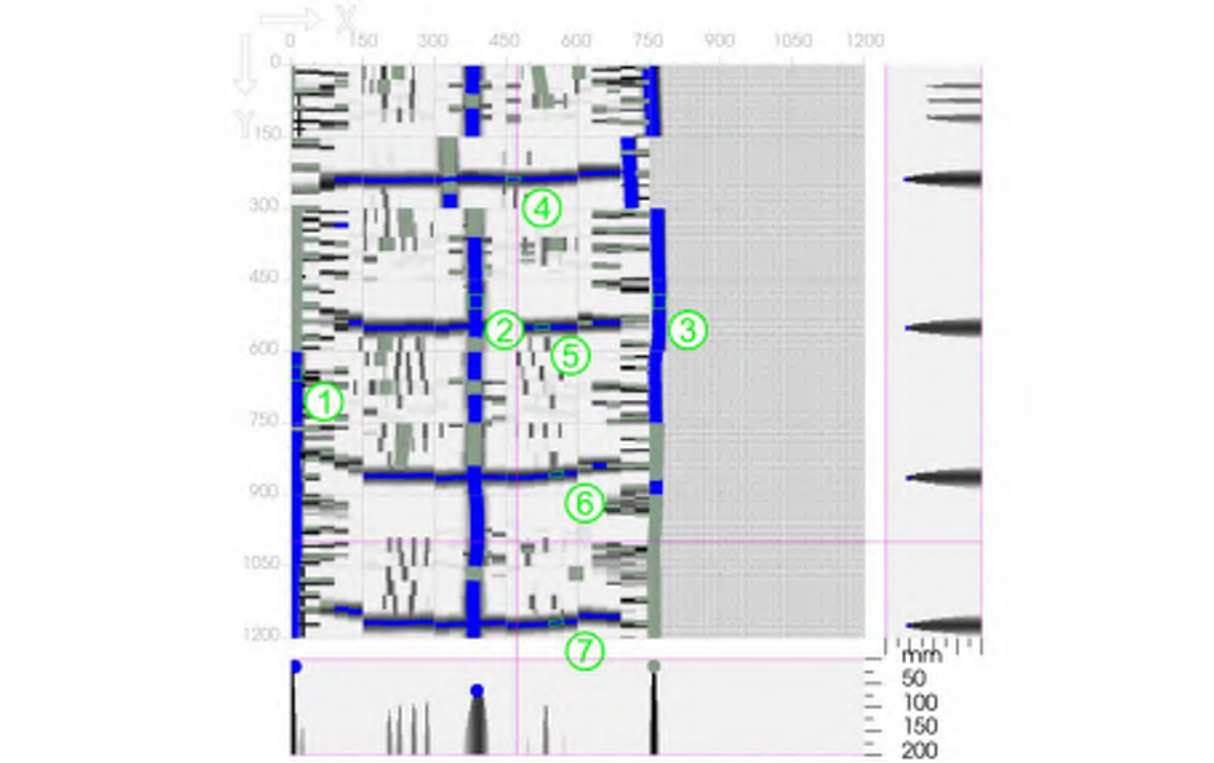
Project name:	CIS - L0	Customer:	CIS Tower
Location:	Level 0 Loc 117	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	20 mm +/- 0 mm	Type:	Input
Ø Vertical:	20 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	171 mm	105 mm	99 mm	20 mm	Vertical	High
2.	317 mm	195 mm	105 mm	20 mm	Vertical	High
3.	509 mm	225 mm	100 mm	20 mm	Vertical	High
4.	375 mm	56 mm	90 mm	20 mm	Horizontal	High
5.	405 mm	277 mm	75 mm	20 mm	Horizontal	High
6.	405 mm	410 mm	63 mm	20 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	118 South Face.fscan
Serial number:	227190008
Date / Time:	2021-07-27 13:16:56
Comment:	-



x: 472 mm	y: 999 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

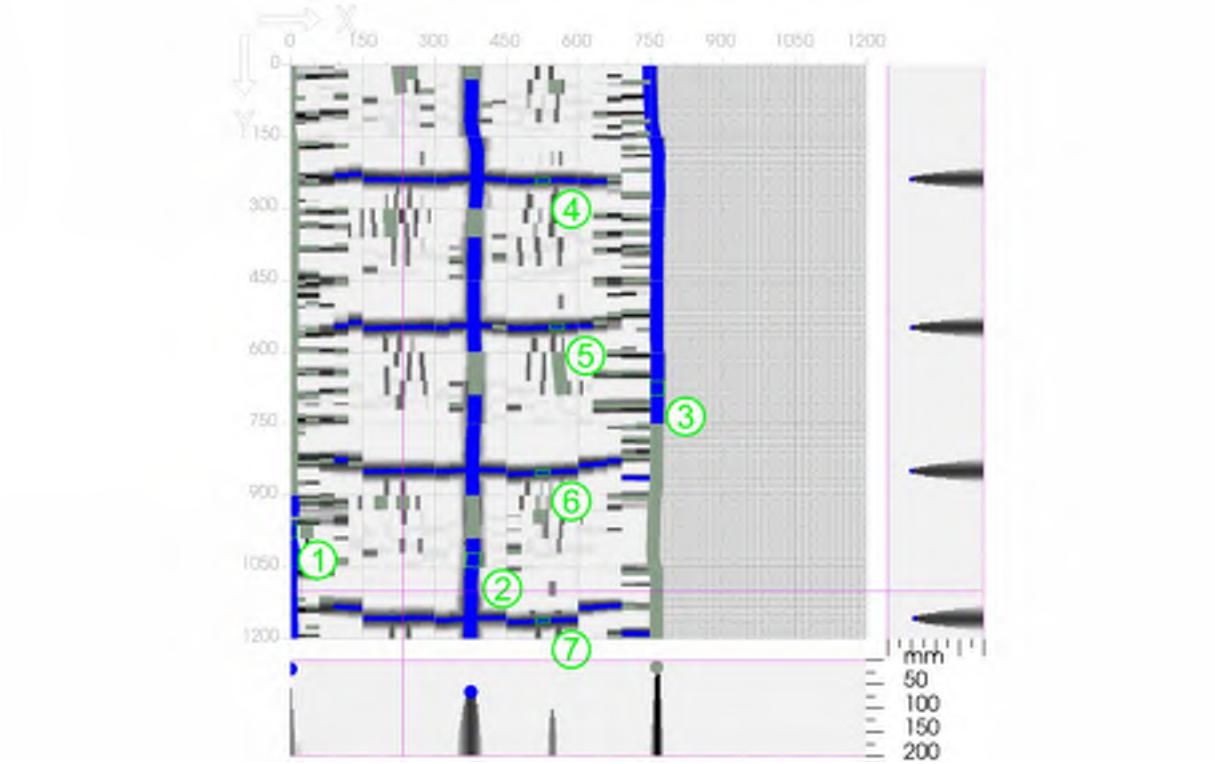
Project name:	CIS - L0	Customer:	CIS Tower
Location:	Level 0 Loc 118 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	9 mm	645 mm	3 mm	28 mm	Vertical	High
2.	387 mm	495 mm	46 mm	28 mm	Vertical	High
3.	770 mm	495 mm	1 mm	28 mm	Vertical	High
4.	465 mm	239 mm	37 mm	10 mm	Horizontal	High
5.	525 mm	548 mm	41 mm	10 mm	Horizontal	High
6.	555 mm	858 mm	43 mm	10 mm	Horizontal	High
7.	555 mm	1168 mm	44 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	118 West Face.fscan
Serial number:	227190008
Date / Time:	2021-07-27 13:12:11
Comment:	-



x: 236 mm	y: 1099 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

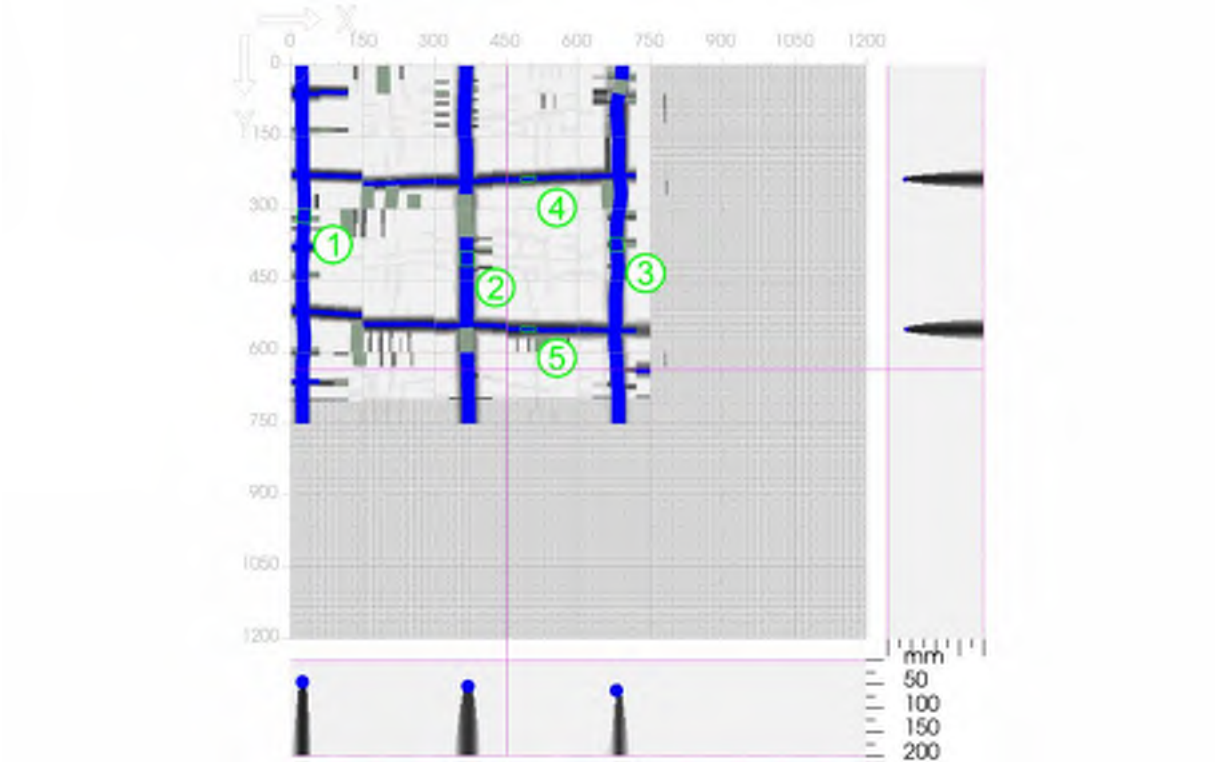
Project name:	CIS - L0	Customer:	CIS Tower
Location:	Level 0 Loc 118 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	-4 mm	975 mm	5 mm	28 mm	Vertical	High
2.	381 mm	1035 mm	52 mm	28 mm	Vertical	High
3.	763 mm	675 mm	2 mm	28 mm	Vertical	High
4.	525 mm	241 mm	44 mm	10 mm	Horizontal	High
5.	555 mm	548 mm	41 mm	10 mm	Horizontal	High
6.	525 mm	852 mm	42 mm	10 mm	Horizontal	High
7.	525 mm	1162 mm	45 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	121 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-07-27 15:47:21
Comment:	-



x: 451 mm	y: 636 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

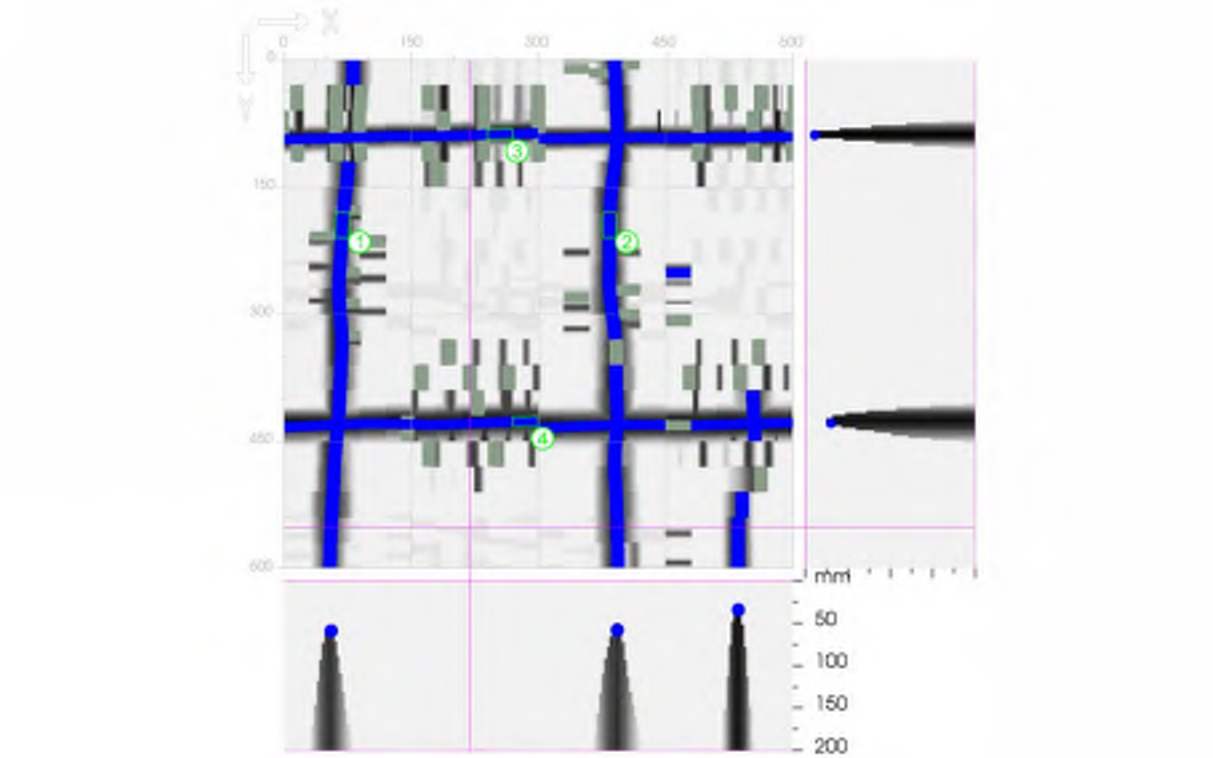
Project name:	CIS - L0	Customer:	CIS Tower
Location:	Level 0 Loc 121 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	28 mm	315 mm	27 mm	28 mm	Vertical	High
2.	367 mm	405 mm	38 mm	28 mm	Vertical	High
3.	680 mm	375 mm	46 mm	28 mm	Vertical	High
4.	495 mm	238 mm	32 mm	10 mm	Horizontal	High
5.	495 mm	552 mm	35 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	140.fscan
Serial number:	227190008
Date / Time:	2021-07-22 13:37:24
Comment:	-



x: 219 mm	y: 552 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

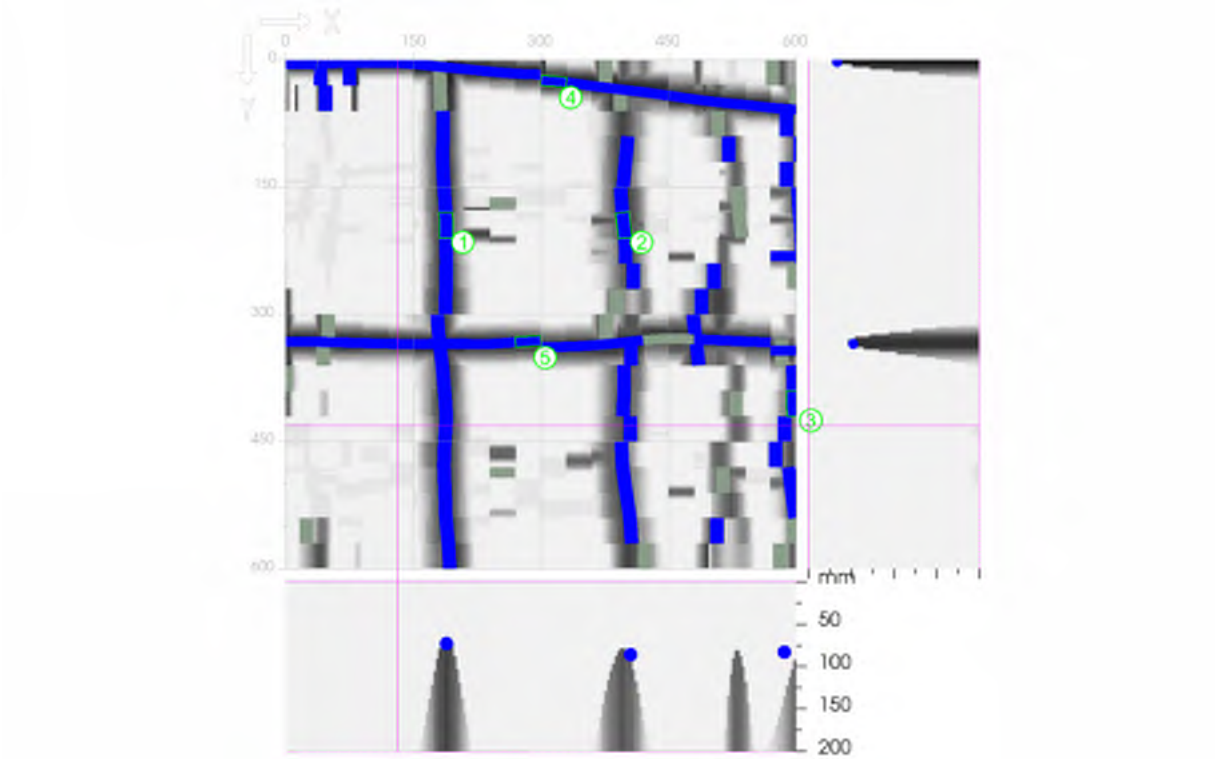
Project name:	CIS - Mez	Customer:	CIS Tower
Location:	Mezz Loc 140	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	69 mm	195 mm	37 mm	16 mm	Vertical	High
2.	384 mm	195 mm	33 mm	16 mm	Vertical	High
3.	255 mm	88 mm	5 mm	12 mm	Horizontal	High
4.	285 mm	427 mm	24 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	141.fscan
Serial number:	227190008
Date / Time:	2021-07-22 13:35:23
Comment:	-



x: 132 mm	y: 431 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

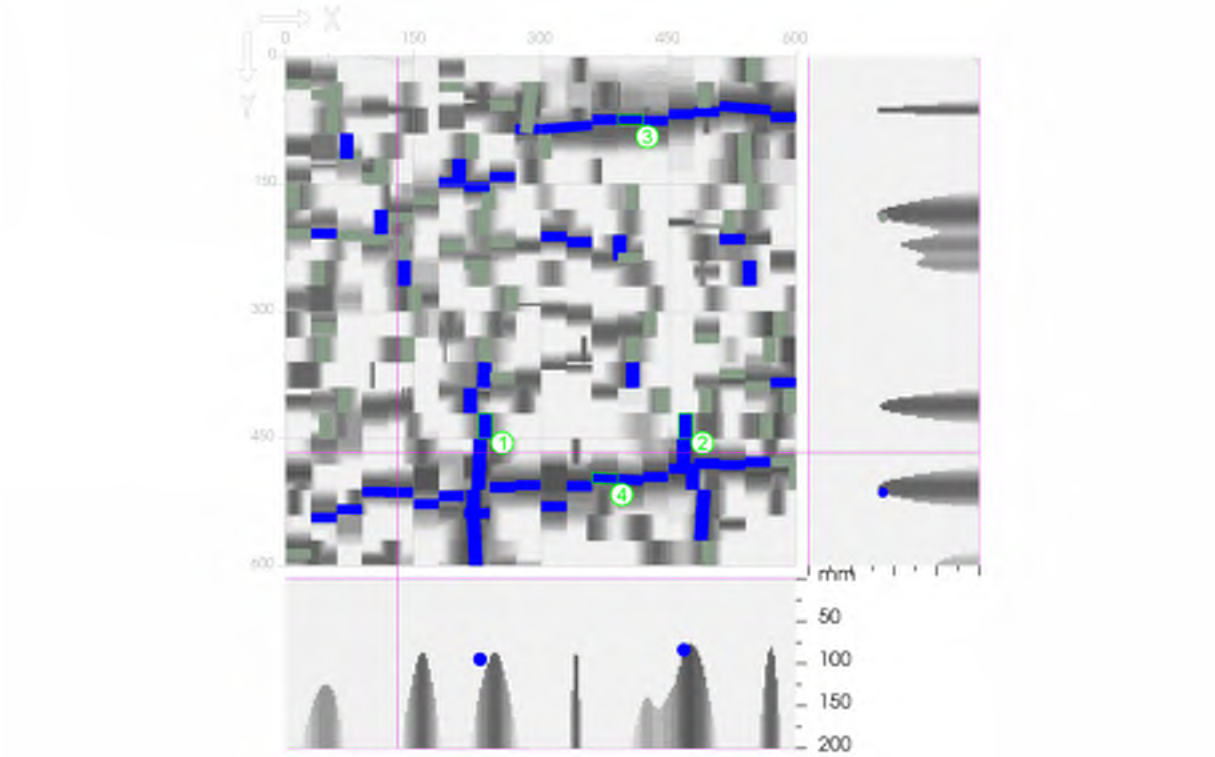
Project name:	CIS - Mez	Customer:	CIS Tower
Location:	Mezz Loc 141	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	188 mm	195 mm	58 mm	16 mm	Vertical	High
2.	398 mm	195 mm	69 mm	16 mm	Vertical	High
3.	597 mm	405 mm	86 mm	16 mm	Vertical	High
4.	315 mm	24 mm	38 mm	12 mm	Horizontal	High
5.	285 mm	331 mm	52 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	142.fscan
Serial number:	227190008
Date / Time:	2021-07-22 13:53:00
Comment:	-



x: 132 mm	y: 467 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

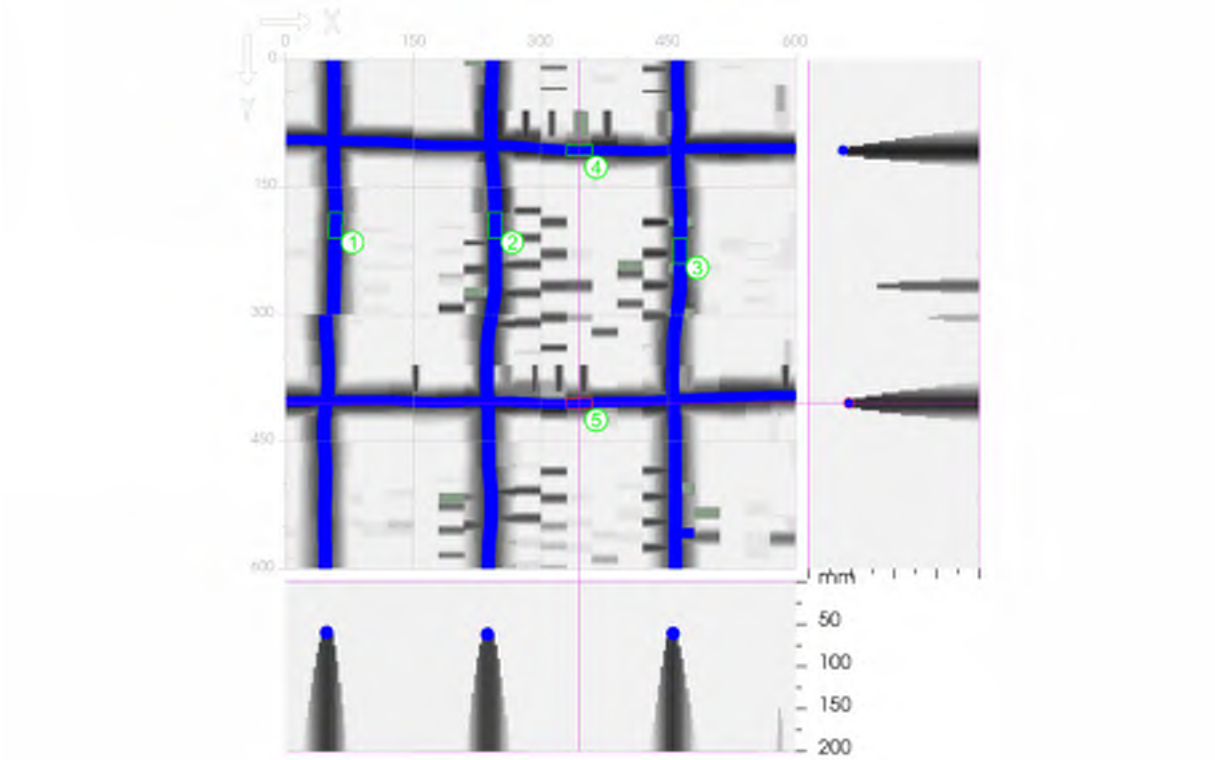
Project name:	CIS - Mez	Customer:	CIS Tower
Location:	Mezz Loc 142	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	235 mm	435 mm	95 mm	16 mm	Vertical	High
2.	470 mm	435 mm	91 mm	16 mm	Vertical	High
3.	405 mm	74 mm	86 mm	12 mm	Horizontal	High
4.	375 mm	496 mm	78 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	143.fscan
Serial number:	227190008
Date / Time:	2021-07-22 13:33:38
Comment:	-



x: 345 mm	y: 405 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

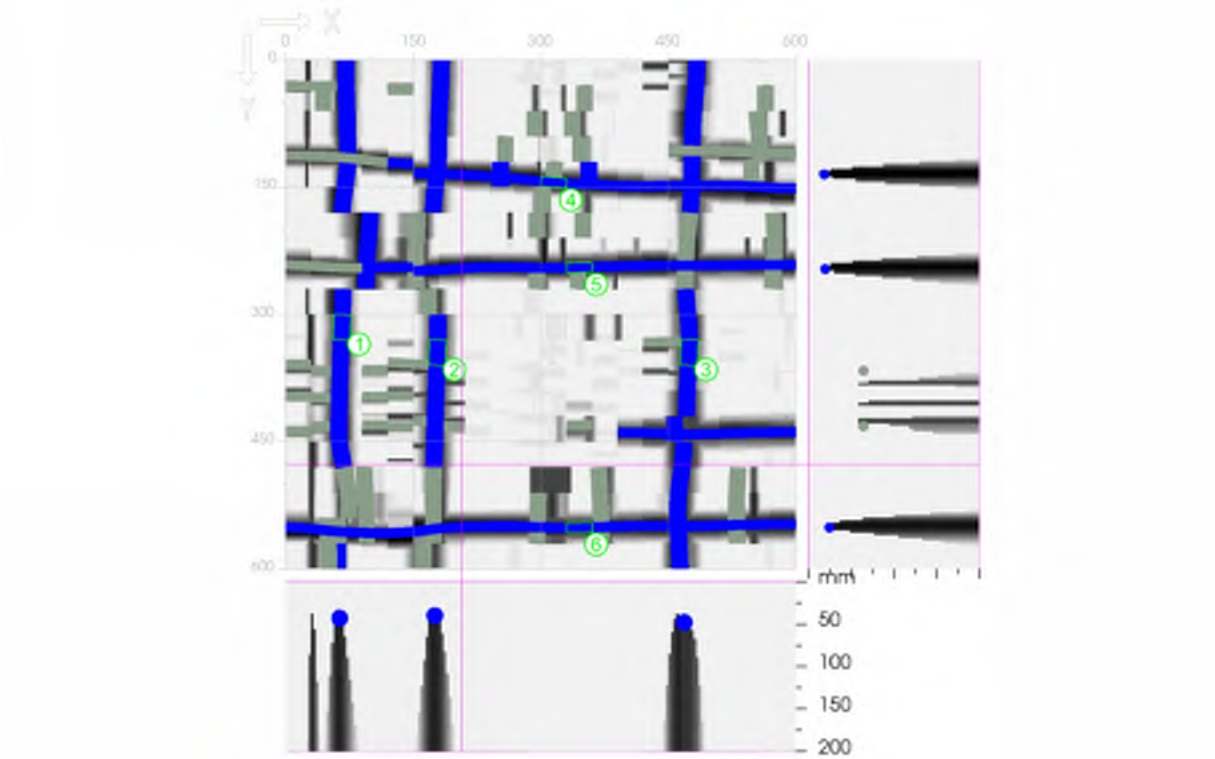
Project name:	CIS - Mez	Customer:	CIS Tower
Location:	Mezz Loc 143	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	59 mm	195 mm	46 mm	16 mm	Vertical	High
2.	246 mm	195 mm	49 mm	16 mm	Vertical	High
3.	464 mm	225 mm	49 mm	16 mm	Vertical	High
4.	345 mm	107 mm	34 mm	12 mm	Horizontal	High
5.	345 mm	405 mm	41 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	144.fscan
Serial number:	227190008
Date / Time:	2021-07-22 13:39:19
Comment:	-



x: 207 mm	y: 477 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

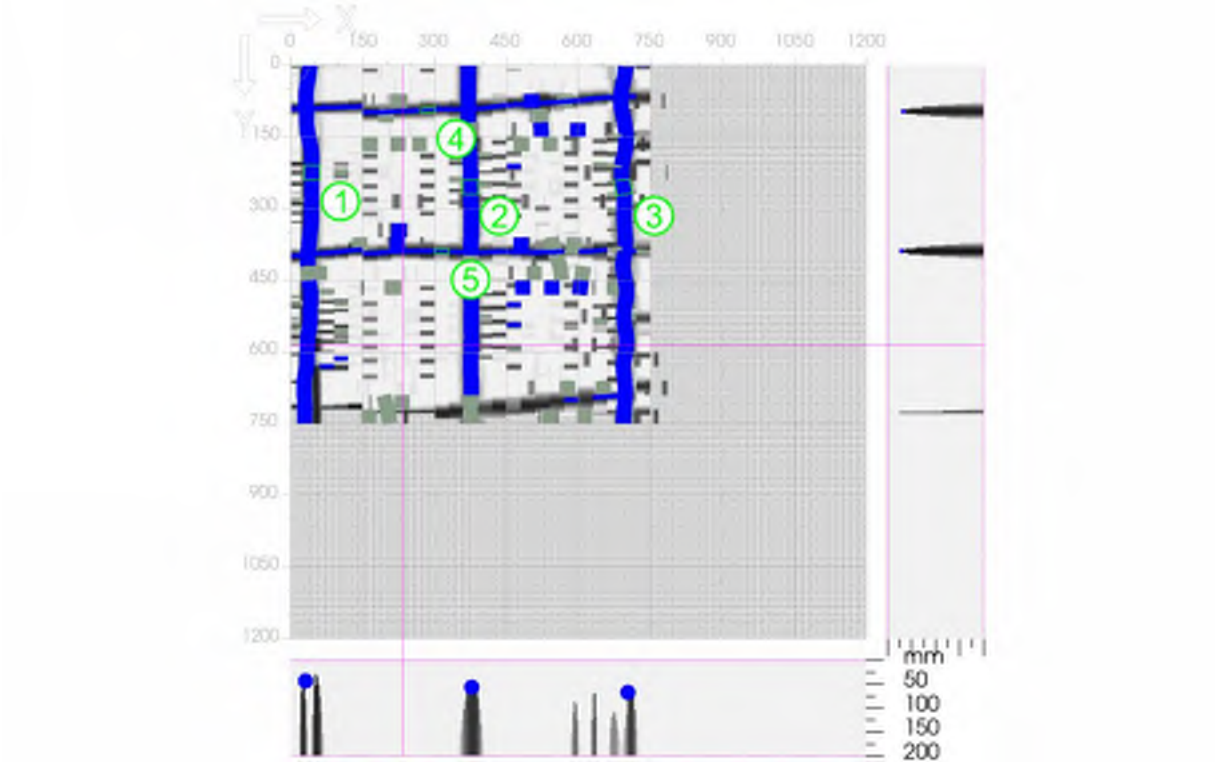
Project name:	CIS - Mez	Customer:	CIS Tower
Location:	Mezz Loc 144	Object:	Wall
User:	BD		
Comment:	Main bar size is 19mm Smooth		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	20 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	66 mm	315 mm	32 mm	20 mm	Vertical	High
2.	178 mm	345 mm	30 mm	20 mm	Vertical	High
3.	474 mm	345 mm	38 mm	20 mm	Vertical	High
4.	315 mm	145 mm	17 mm	12 mm	Horizontal	High
5.	345 mm	245 mm	18 mm	12 mm	Horizontal	High
6.	345 mm	551 mm	21 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	145 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-07-22 14:02:29
Comment:	-



x: 234 mm	y: 585 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

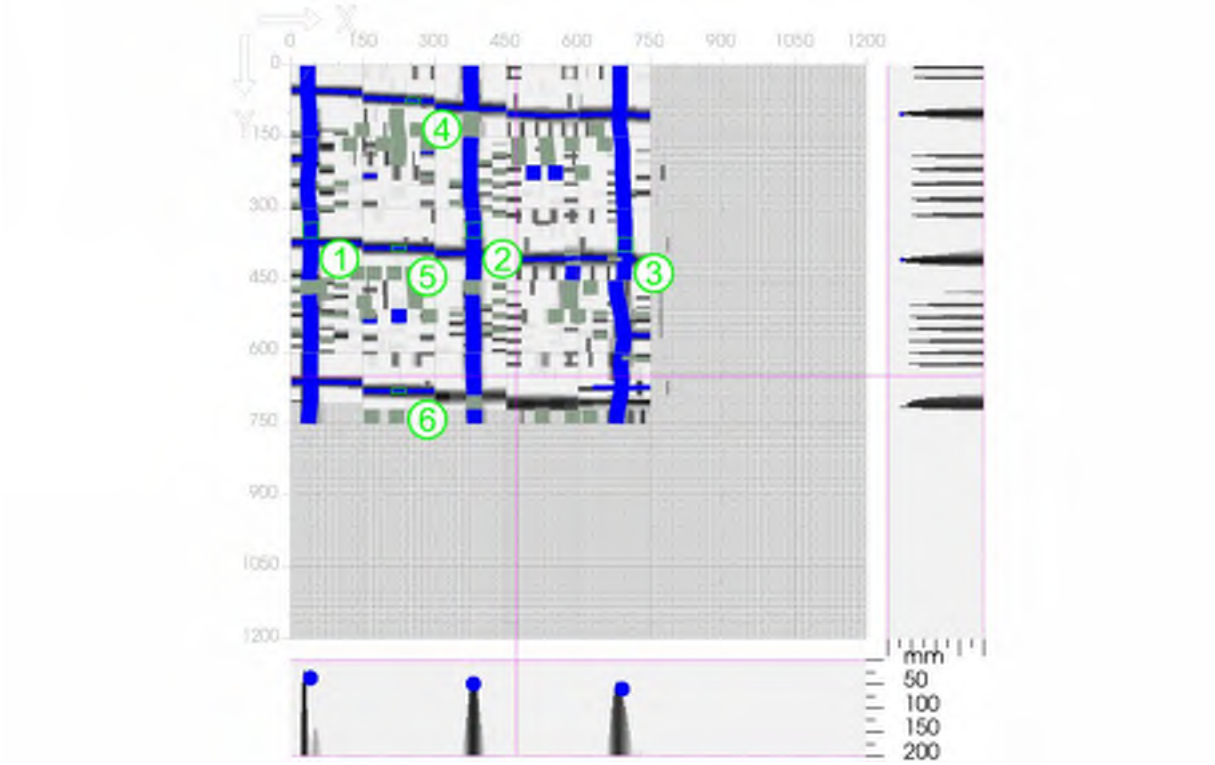
Project name:	CIS - Mez	Customer:	CIS Tower
Location:	Mezz Loc 145 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	44 mm	225 mm	27 mm	32 mm	Vertical	High
2.	375 mm	255 mm	39 mm	32 mm	Vertical	High
3.	698 mm	255 mm	51 mm	32 mm	Vertical	High
4.	285 mm	94 mm	28 mm	10 mm	Horizontal	High
5.	315 mm	389 mm	30 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	145 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-07-22 14:06:32
Comment:	-



x: 471 mm	y: 651 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

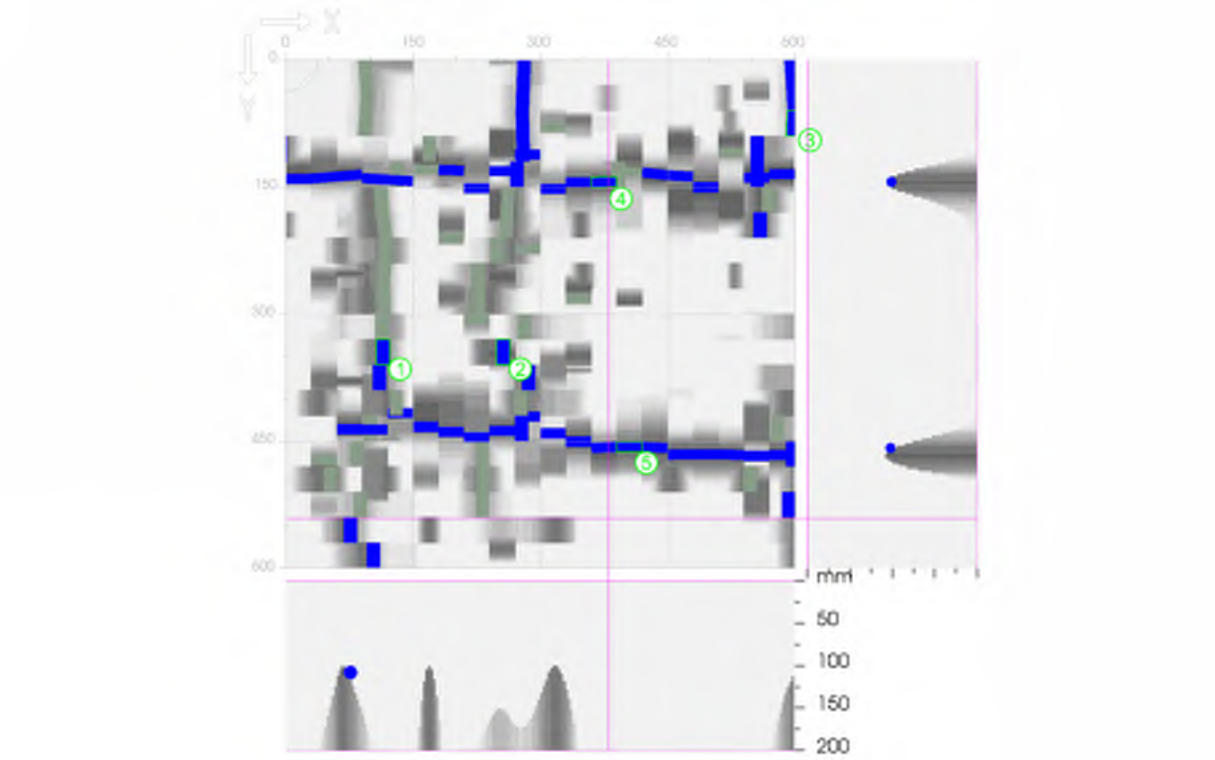
Project name:	CIS - Mez	Customer:	CIS Tower
Location:	Mezz Loc 145 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	42 mm	345 mm	20 mm	32 mm	Vertical	High
2.	381 mm	345 mm	33 mm	32 mm	Vertical	High
3.	698 mm	375 mm	42 mm	32 mm	Vertical	High
4.	255 mm	74 mm	18 mm	10 mm	Horizontal	High
5.	225 mm	383 mm	18 mm	10 mm	Horizontal	High
6.	225 mm	681 mm	18 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	146.fscan
Serial number:	227190008
Date / Time:	2021-07-22 14:22:43
Comment:	-



x: 380 mm	y: 541 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

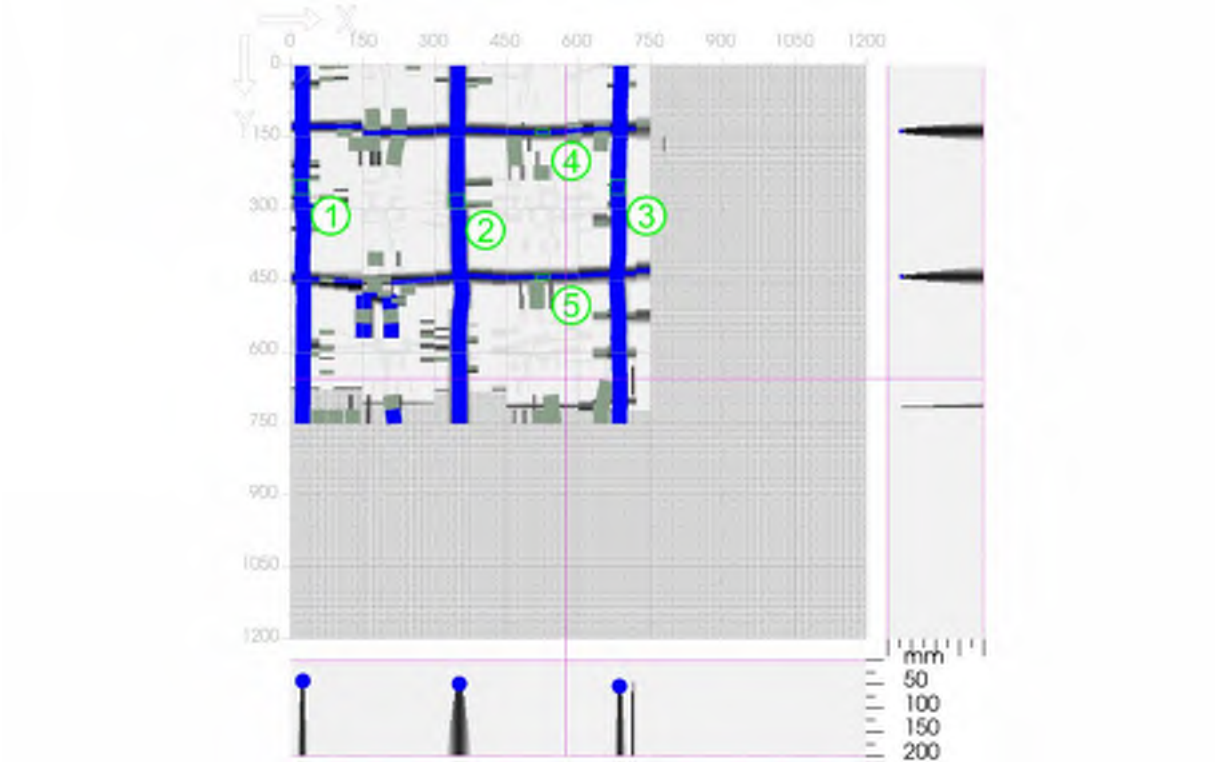
Project name:	CIS - Mez	Customer:	CIS Tower
Location:	Mezz Loc 146	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	114 mm	345 mm	101 mm	16 mm	Vertical	High
2.	256 mm	345 mm	95 mm	16 mm	Vertical	High
3.	598 mm	75 mm	122 mm	16 mm	Vertical	High
4.	375 mm	144 mm	93 mm	12 mm	Horizontal	High
5.	405 mm	456 mm	92 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	148 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-07-22 14:09:53
Comment:	-



x: 574 mm	y: 656 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

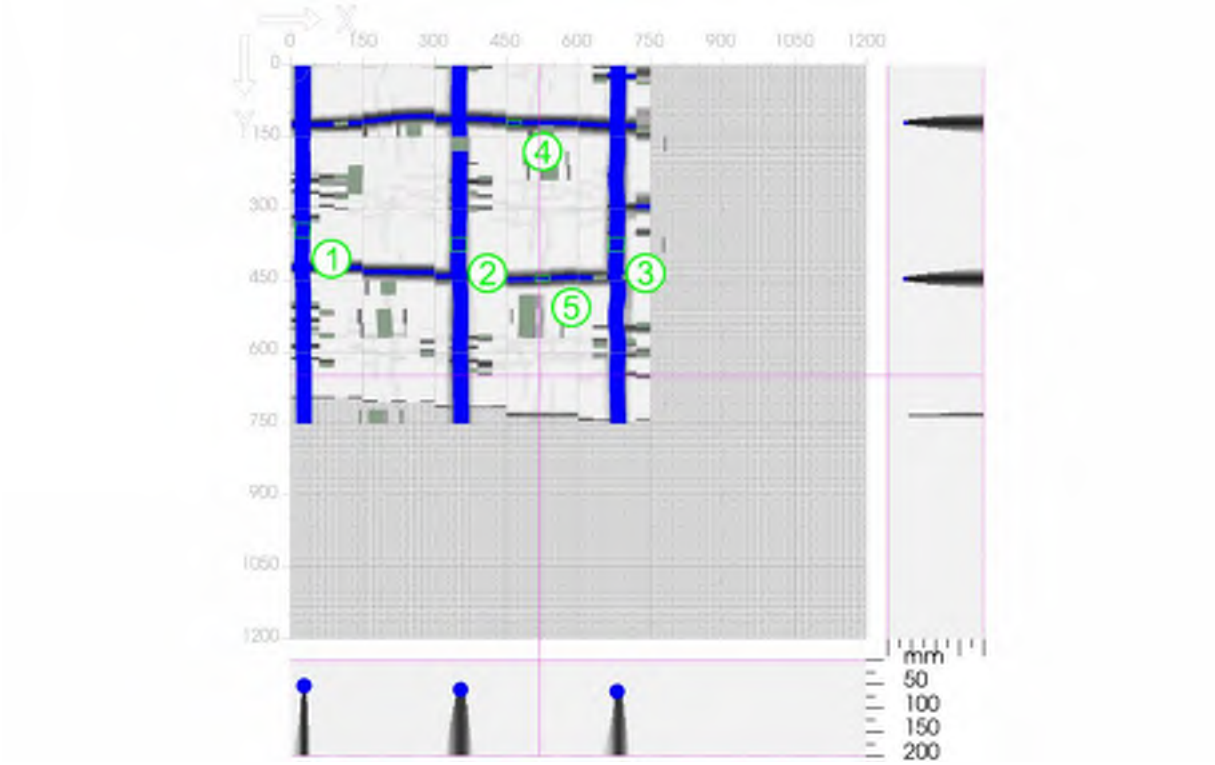
Project name:	CIS - Mez	Customer:	CIS Tower
Location:	Mezz Loc 148 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	23 mm	255 mm	28 mm	32 mm	Vertical	High
2.	346 mm	285 mm	31 mm	32 mm	Vertical	High
3.	682 mm	255 mm	33 mm	32 mm	Vertical	High
4.	525 mm	140 mm	24 mm	10 mm	Horizontal	High
5.	525 mm	443 mm	24 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	148 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-07-22 14:12:28
Comment:	-



x: 520 mm	y: 649 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

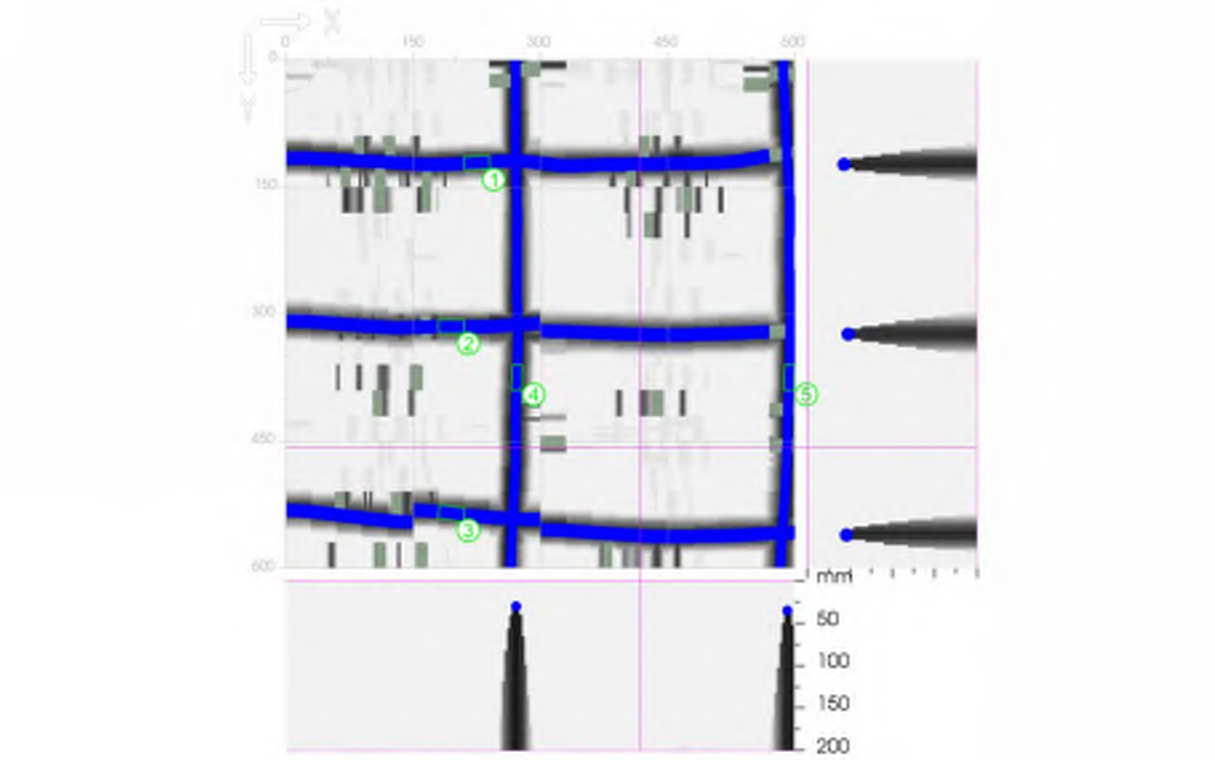
Project name:	CIS - Mez	Customer:	CIS Tower
Location:	Mezz Loc 148 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	25 mm	345 mm	36 mm	32 mm	Vertical	High
2.	350 mm	375 mm	43 mm	32 mm	Vertical	High
3.	680 mm	375 mm	46 mm	32 mm	Vertical	High
4.	465 mm	121 mm	32 mm	10 mm	Horizontal	High
5.	525 mm	447 mm	31 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	149.fscan
Serial number:	227190008
Date / Time:	2021-07-27 16:26:19
Comment:	-



x: 417 mm	y: 458 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

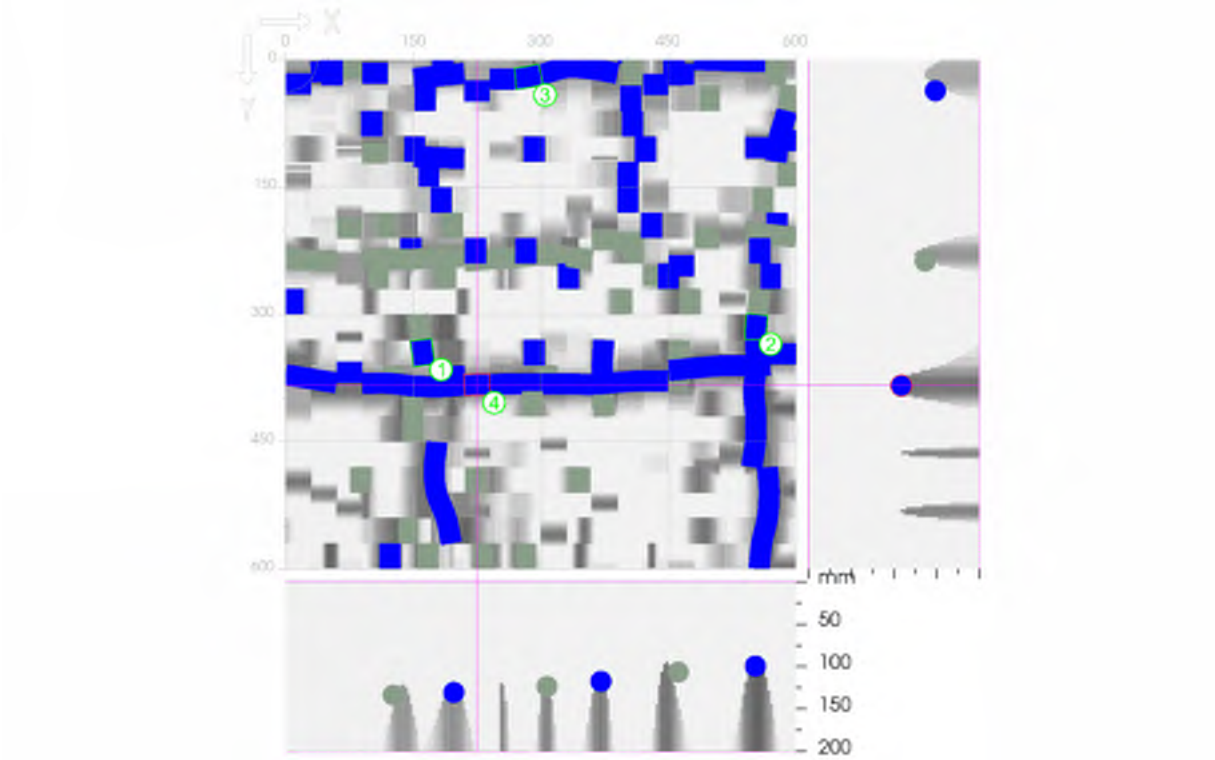
Project name:	CIS - Mez	Customer:	CIS Tower
Location:	Level Mezz Loc 149	Object:	Beam
User:	BD		
Comment:	-		

Ø Horizontal:	16 mm +/- 0 mm	Type:	Input
Ø Vertical:	12 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	225 mm	121 mm	33 mm	16 mm	Horizontal	High
2.	195 mm	315 mm	38 mm	16 mm	Horizontal	High
3.	195 mm	535 mm	38 mm	16 mm	Horizontal	High
4.	272 mm	375 mm	23 mm	12 mm	Vertical	High
5.	594 mm	375 mm	29 mm	12 mm	Vertical	High

.Hilti PROFIS Detection Report

Scan File:	150.fscan
Serial number:	227190008
Date / Time:	2021-07-22 13:57:21
Comment:	-



x: 225 mm	y: 384 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

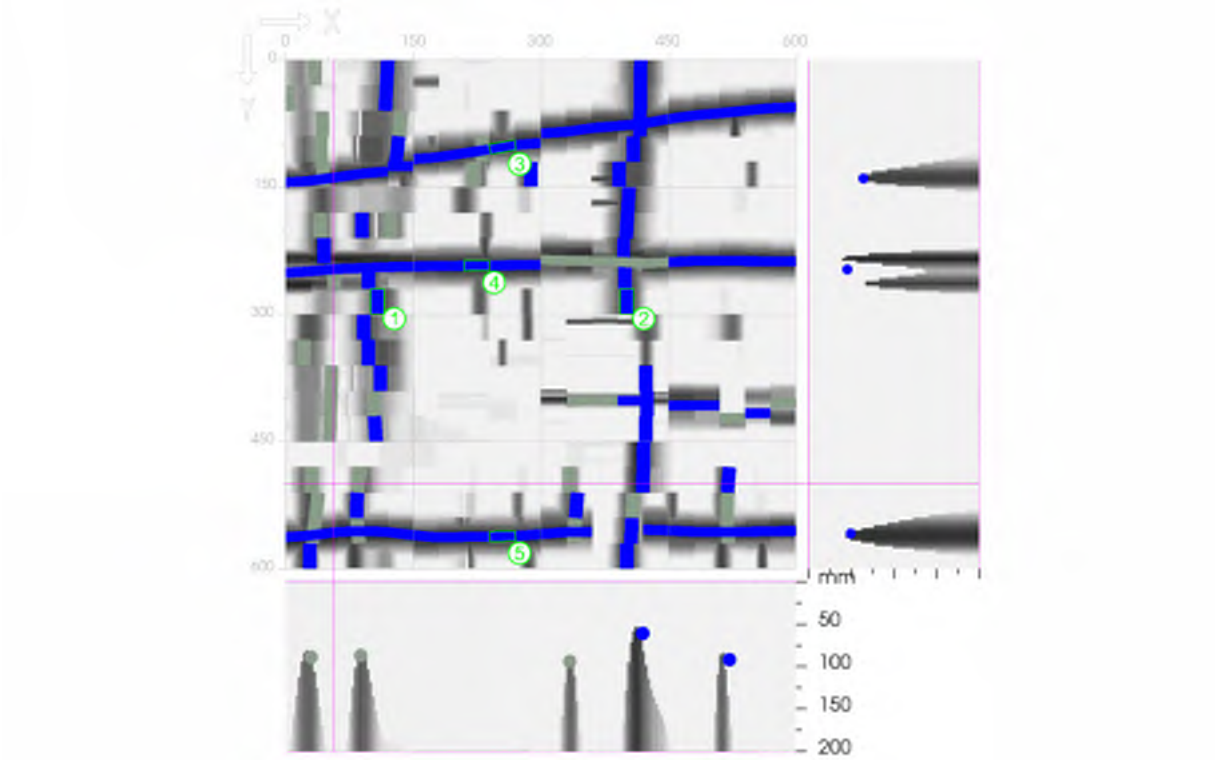
Project name:	CIS - Mez	Customer:	CIS Tower
Location:	Mezz Loc 150	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	25 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	163 mm	345 mm	103 mm	25 mm	Vertical	High
2.	550 mm	315 mm	88 mm	25 mm	Vertical	High
3.	285 mm	21 mm	129 mm	25 mm	Horizontal	High
4.	225 mm	384 mm	96 mm	25 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	151.fscan
Serial number:	227190008
Date / Time:	2021-07-22 13:31:45
Comment:	-



x: 56 mm	y: 499 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

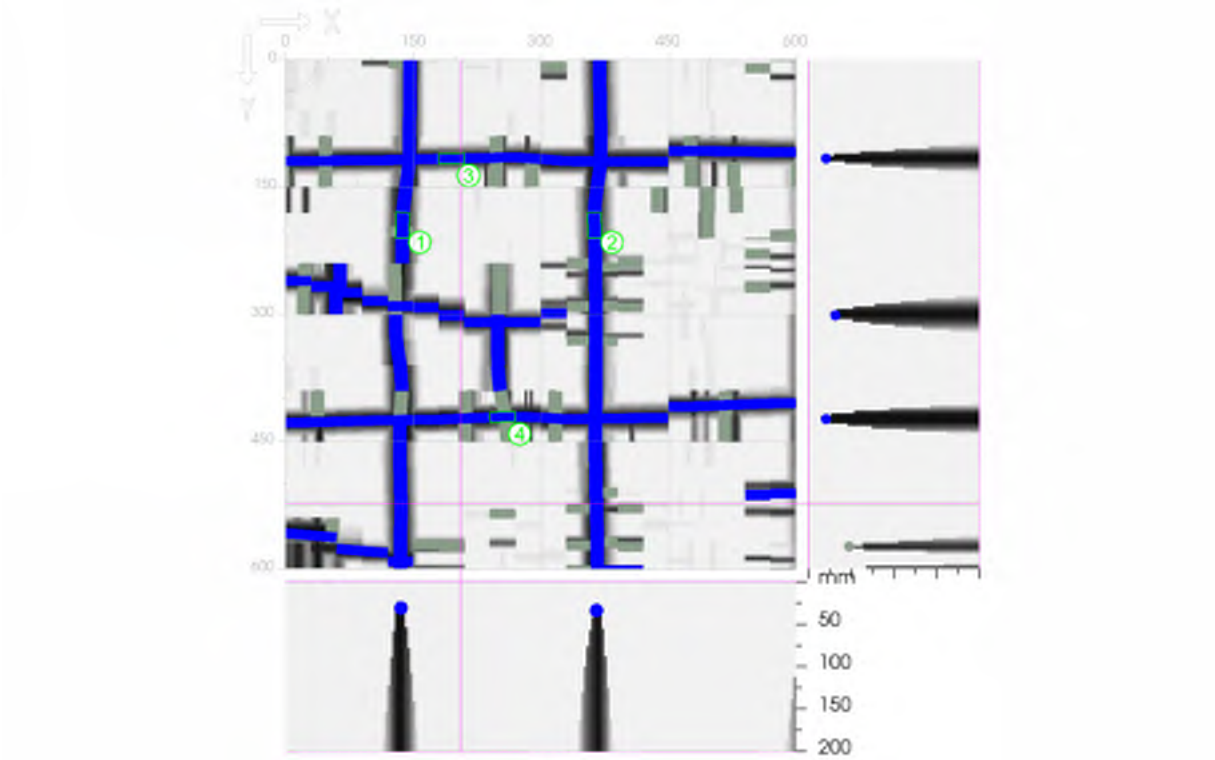
Project name:	CIS - Mez	Customer:	CIS Tower
Location:	Mezz Loc 151	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	108 mm	285 mm	68 mm	16 mm	Vertical	High
2.	401 mm	285 mm	57 mm	16 mm	Vertical	High
3.	255 mm	103 mm	56 mm	12 mm	Horizontal	High
4.	225 mm	242 mm	50 mm	12 mm	Horizontal	High
5.	255 mm	561 mm	53 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	152.fscan
Serial number:	227190008
Date / Time:	2021-07-22 13:29:12
Comment:	-



x: 206 mm	y: 523 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

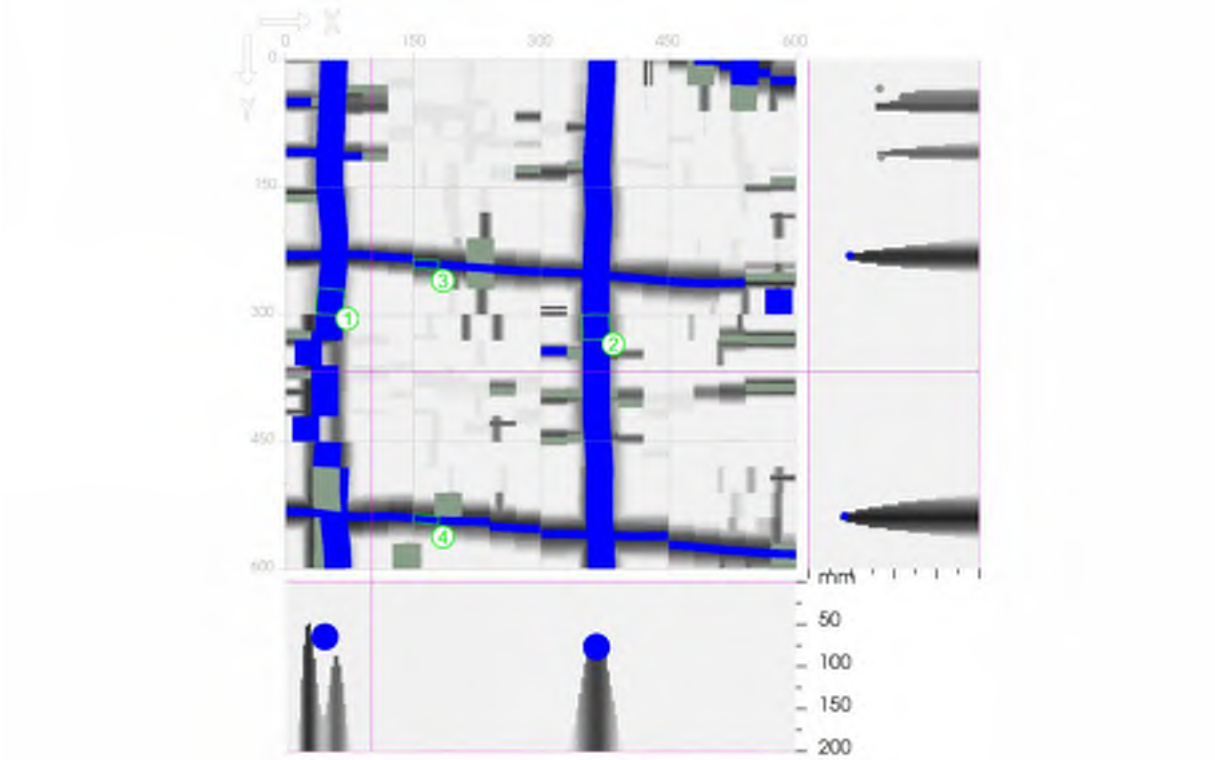
Project name:	CIS - Mez	Customer:	CIS Tower
Location:	Mezz Loc 152	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	138 mm	195 mm	27 mm	16 mm	Vertical	High
2.	364 mm	195 mm	30 mm	16 mm	Vertical	High
3.	195 mm	116 mm	14 mm	12 mm	Horizontal	High
4.	255 mm	421 mm	15 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	153 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-07-22 13:22:07
Comment:	-



x: 101 mm	y: 368 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

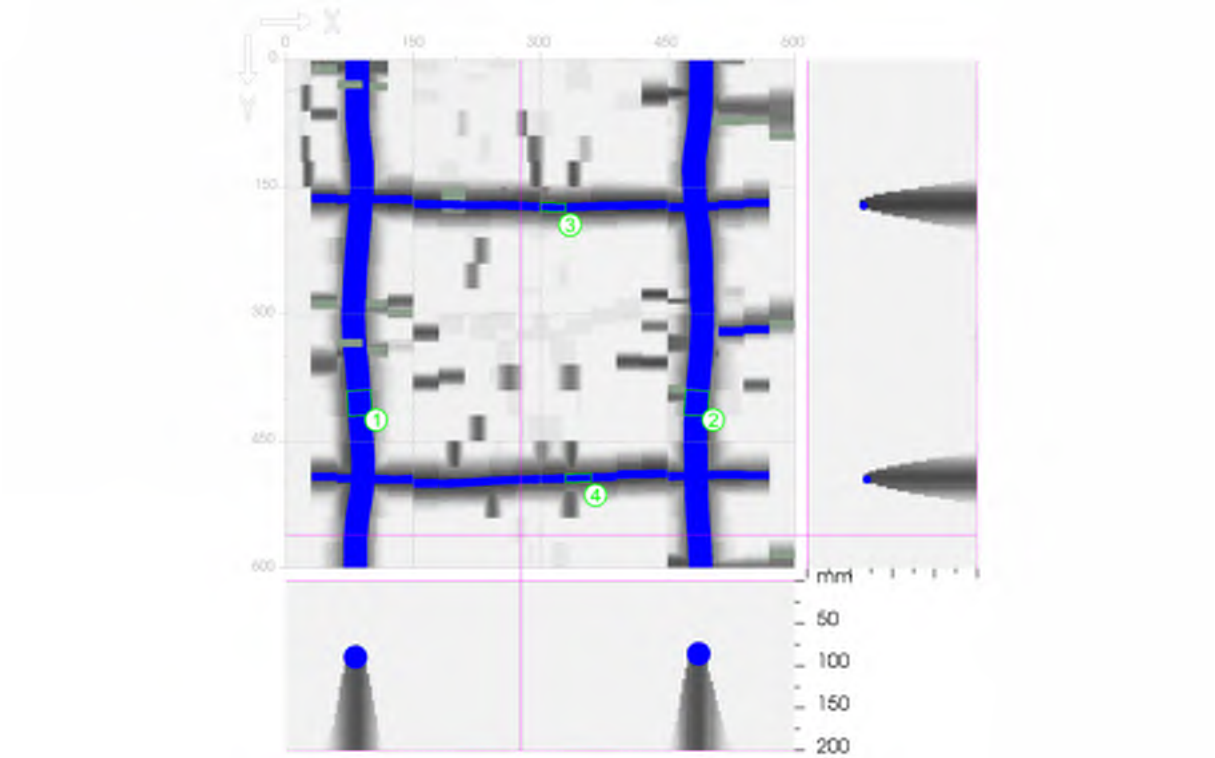
Project name:	CIS - Mez	Customer:	CIS Tower
Location:	Mezz Loc 153 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	32 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	52 mm	285 mm	53 mm	32 mm	Vertical	High
2.	365 mm	315 mm	59 mm	32 mm	Vertical	High
3.	165 mm	240 mm	47 mm	10 mm	Horizontal	High
4.	165 mm	542 mm	47 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	155 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-08-04 12:38:08
Comment:	-



x: 277 mm	y: 561 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

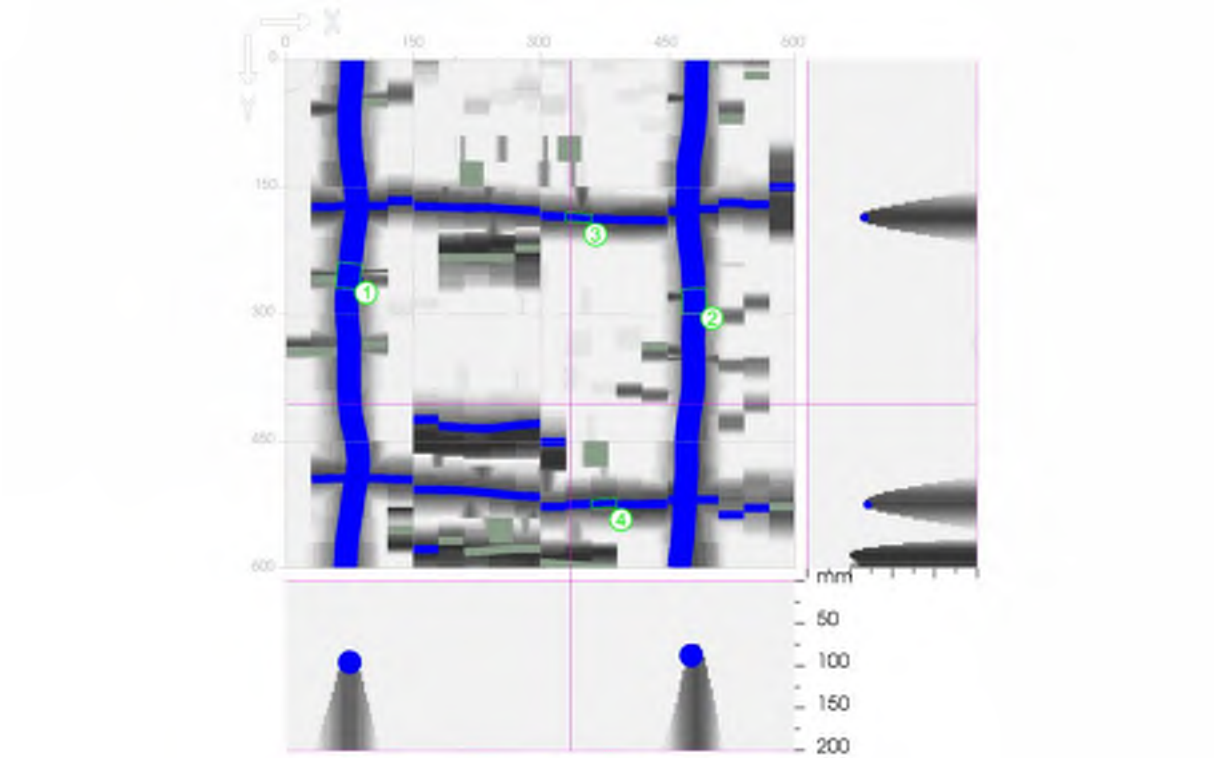
Project name:	CIS – L1	Customer:	CIS Tower
Location:	Level 1 Loc 155 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	86 mm	405 mm	74 mm	28 mm	Vertical	High
2.	484 mm	405 mm	70 mm	28 mm	Vertical	High
3.	315 mm	175 mm	59 mm	10 mm	Horizontal	High
4.	345 mm	494 mm	63 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	155 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-08-04 12:35:46
Comment:	-



x: 335 mm	y: 407 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

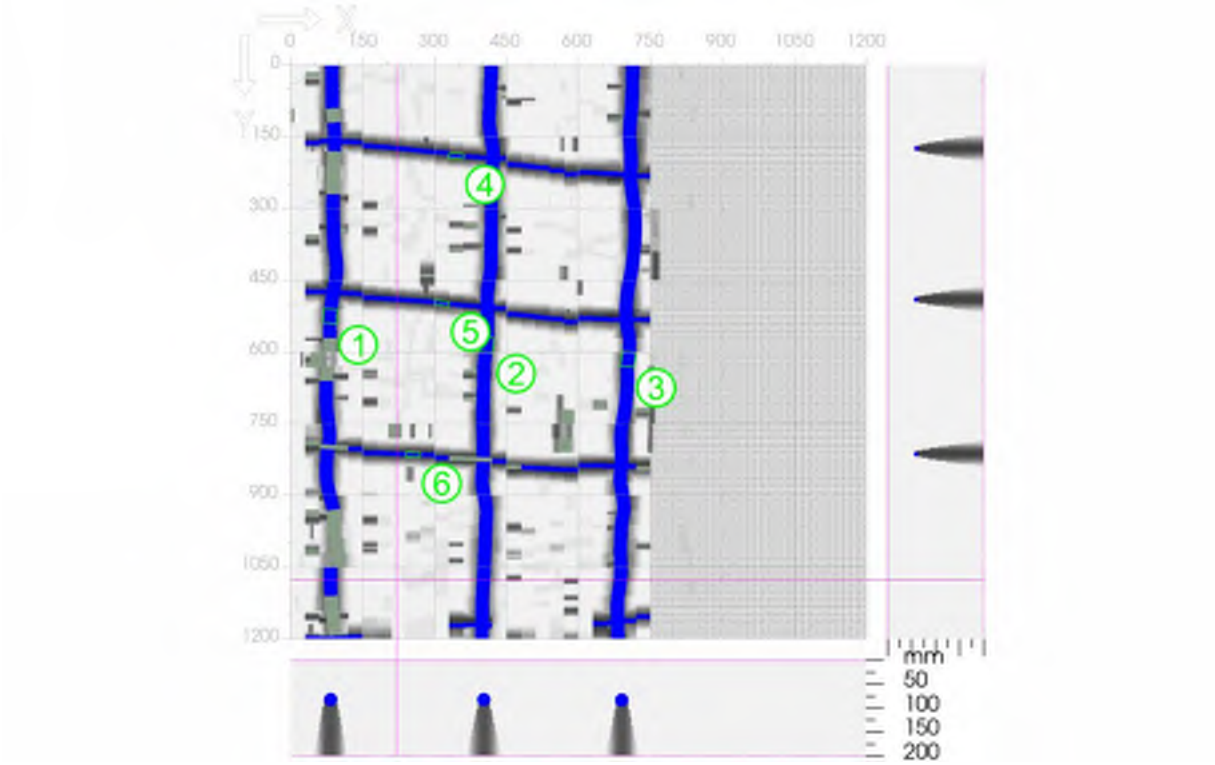
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 155 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	74 mm	255 mm	82 mm	28 mm	Vertical	High
2.	482 mm	285 mm	74 mm	28 mm	Vertical	High
3.	345 mm	186 mm	62 mm	10 mm	Horizontal	High
4.	375 mm	523 mm	63 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	156 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-08-04 14:04:25
Comment:	-



x: 221 mm	y: 1076 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

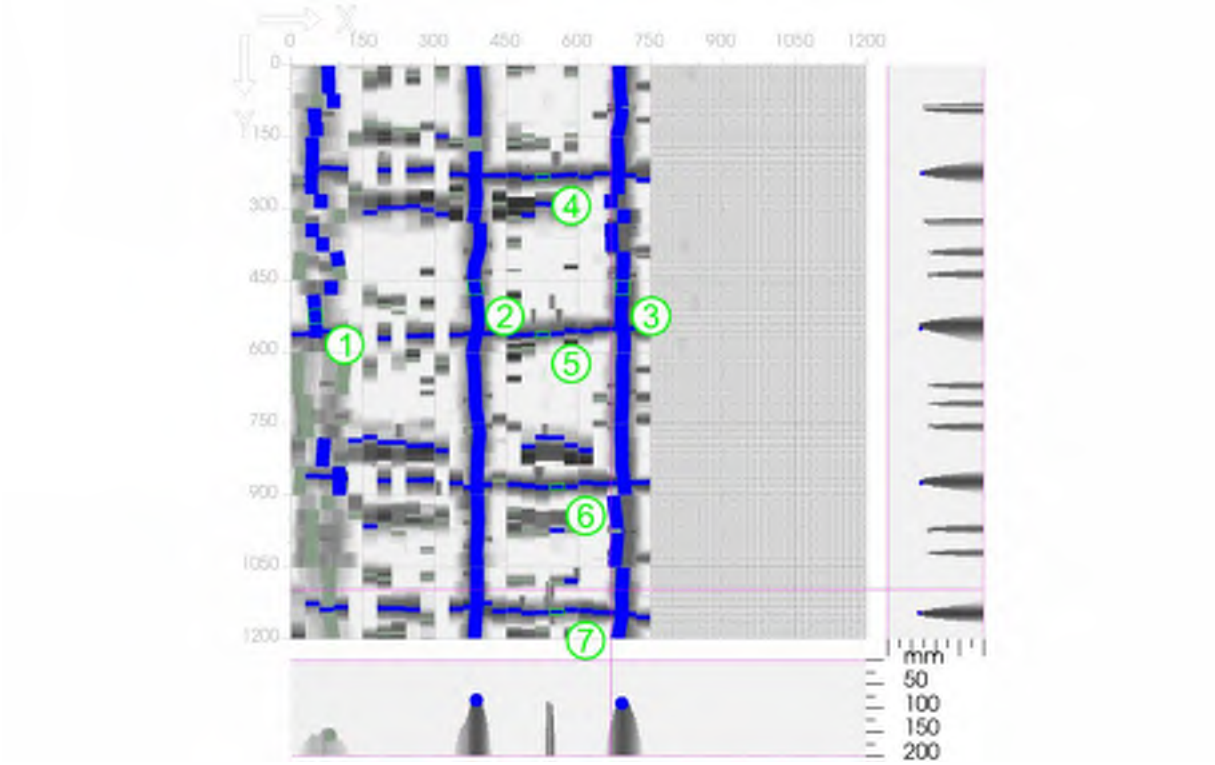
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 156 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	81 mm	525 mm	63 mm	28 mm	Vertical	High
2.	410 mm	585 mm	61 mm	28 mm	Vertical	High
3.	702 mm	615 mm	66 mm	28 mm	Vertical	High
4.	345 mm	189 mm	55 mm	10 mm	Horizontal	High
5.	315 mm	498 mm	56 mm	10 mm	Horizontal	High
6.	255 mm	815 mm	53 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	156 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-08-04 12:43:44
Comment:	-



x: 668 mm	y: 1096 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

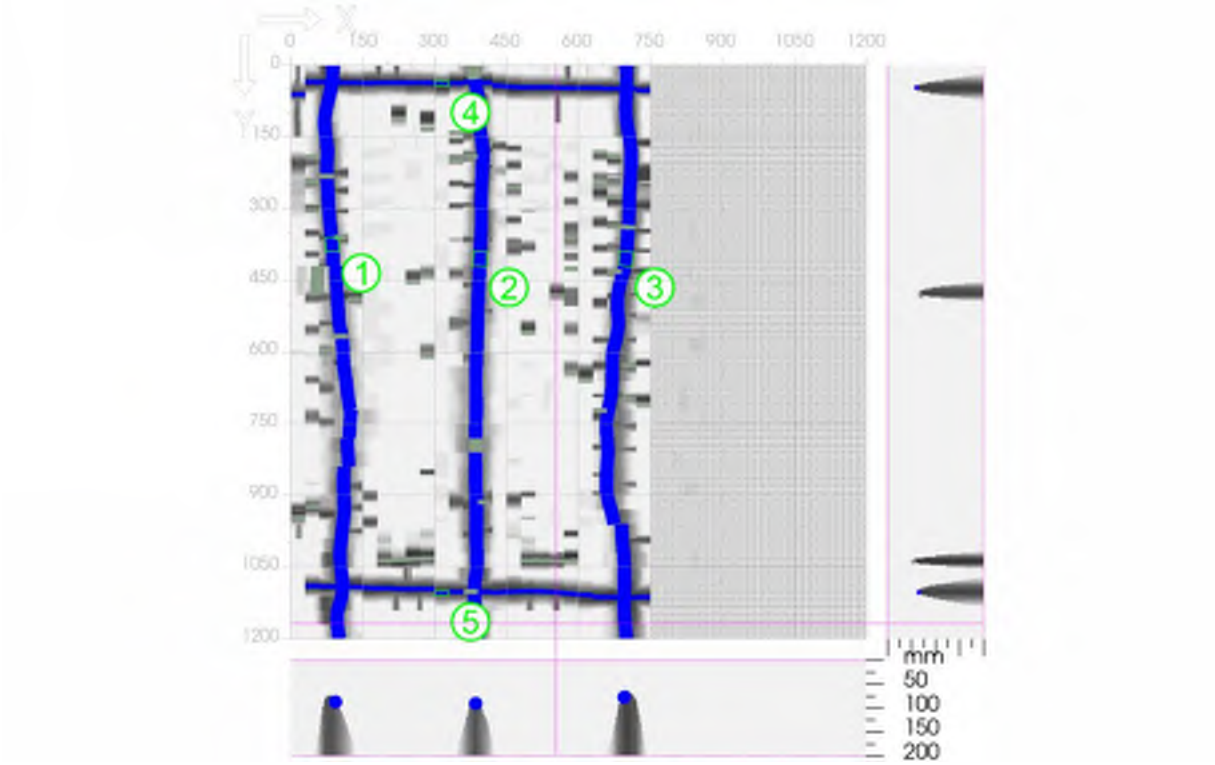
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 156 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	52 mm	525 mm	124 mm	28 mm	Vertical	High
2.	386 mm	465 mm	88 mm	28 mm	Vertical	High
3.	691 mm	465 mm	79 mm	28 mm	Vertical	High
4.	525 mm	234 mm	77 mm	10 mm	Horizontal	High
5.	525 mm	564 mm	84 mm	10 mm	Horizontal	High
6.	555 mm	882 mm	72 mm	10 mm	Horizontal	High
7.	555 mm	1143 mm	99 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	157 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-08-05 17:04:14
Comment:	-



x: 552 mm	y: 1168 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

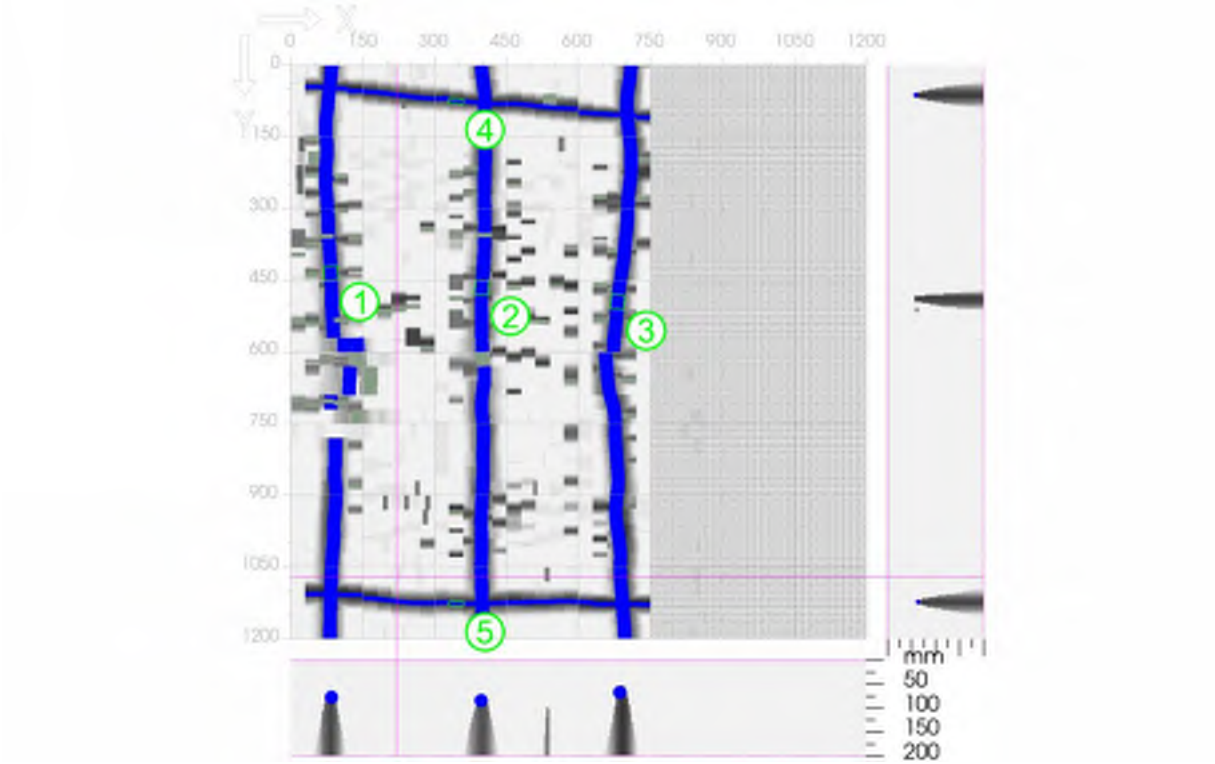
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 157 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	87 mm	375 mm	87 mm	28 mm	Vertical	High
2.	395 mm	405 mm	85 mm	28 mm	Vertical	High
3.	699 mm	405 mm	70 mm	28 mm	Vertical	High
4.	315 mm	39 mm	57 mm	10 mm	Horizontal	High
5.	315 mm	1104 mm	61 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	157 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-08-05 16:54:41
Comment:	-



x: 221 mm	y: 1070 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

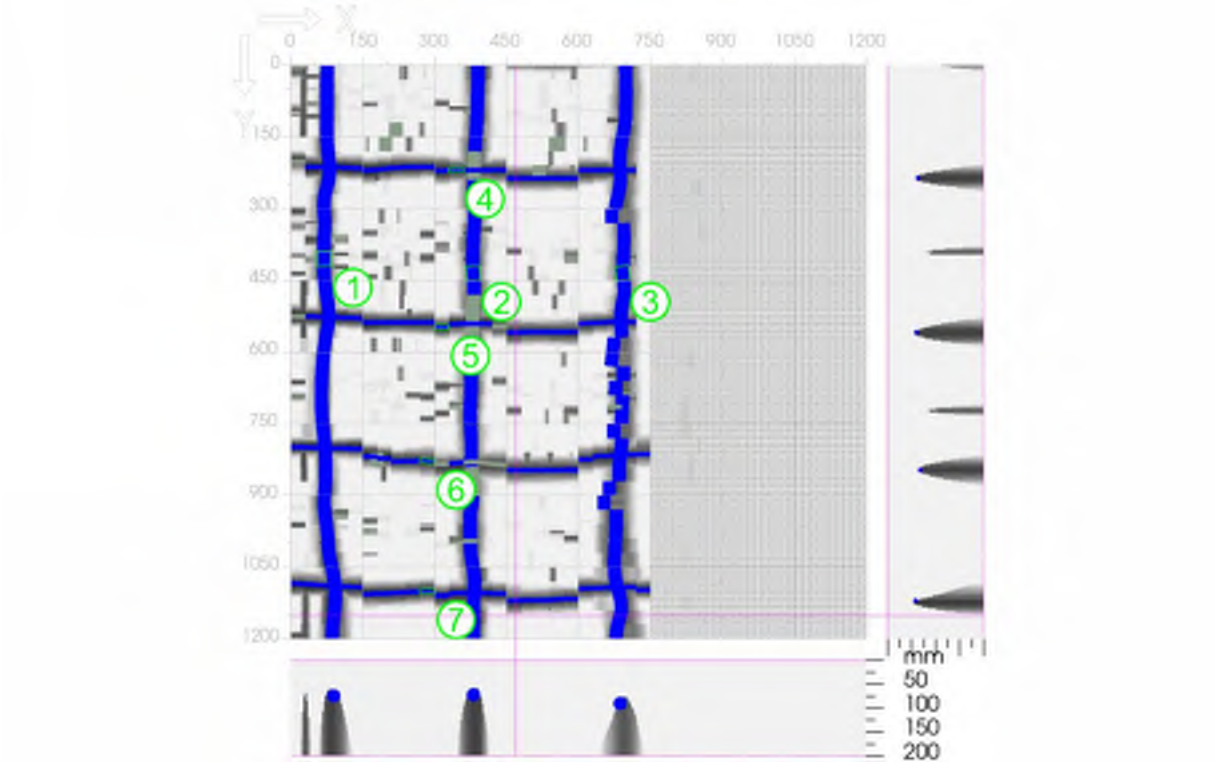
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 157 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	84 mm	435 mm	81 mm	28 mm	Vertical	High
2.	398 mm	465 mm	89 mm	28 mm	Vertical	High
3.	681 mm	495 mm	69 mm	28 mm	Vertical	High
4.	345 mm	75 mm	49 mm	10 mm	Horizontal	High
5.	345 mm	1126 mm	55 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	158 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-08-05 17:13:17
Comment:	-



x: 469 mm	y: 1152 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

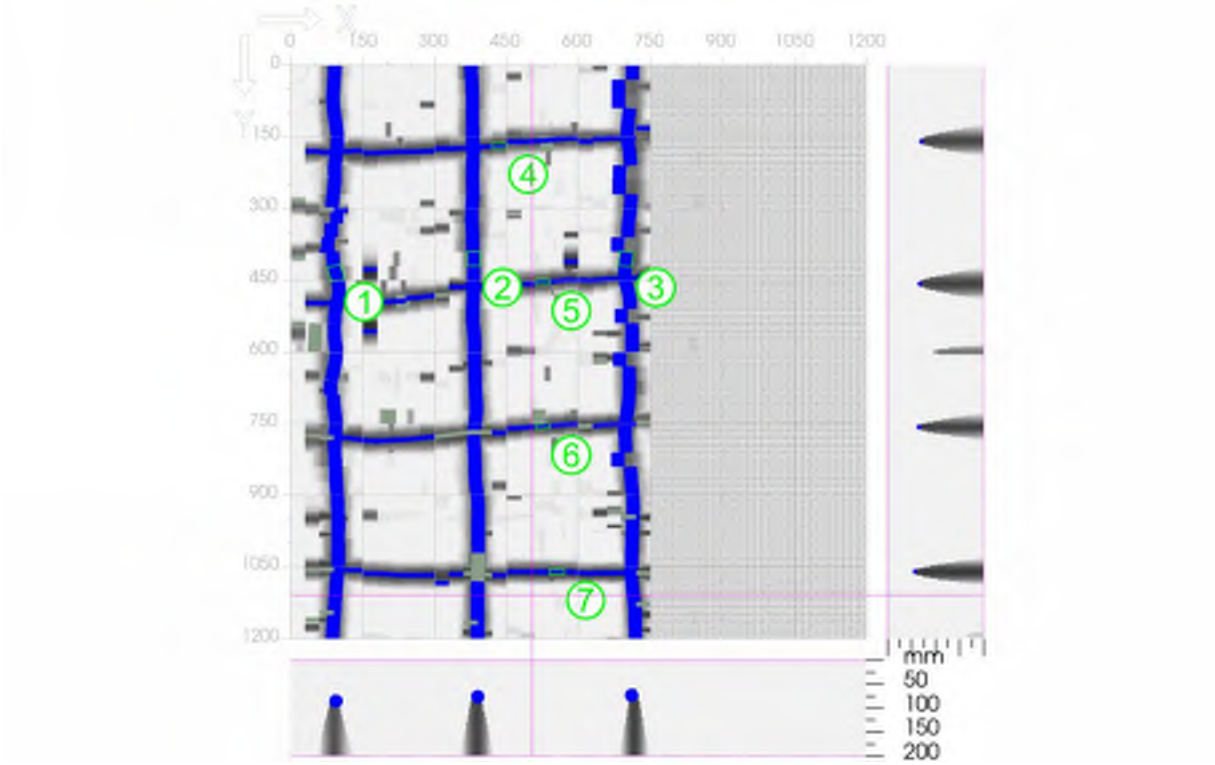
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 158 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	70 mm	405 mm	60 mm	28 mm	Vertical	High
2.	379 mm	435 mm	68 mm	28 mm	Vertical	High
3.	690 mm	435 mm	92 mm	28 mm	Vertical	High
4.	345 mm	220 mm	55 mm	10 mm	Horizontal	High
5.	315 mm	548 mm	53 mm	10 mm	Horizontal	High
6.	285 mm	828 mm	60 mm	10 mm	Horizontal	High
7.	285 mm	1100 mm	55 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	158 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-08-05 17:09:30
Comment:	-



x: 503 mm	y: 1108 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

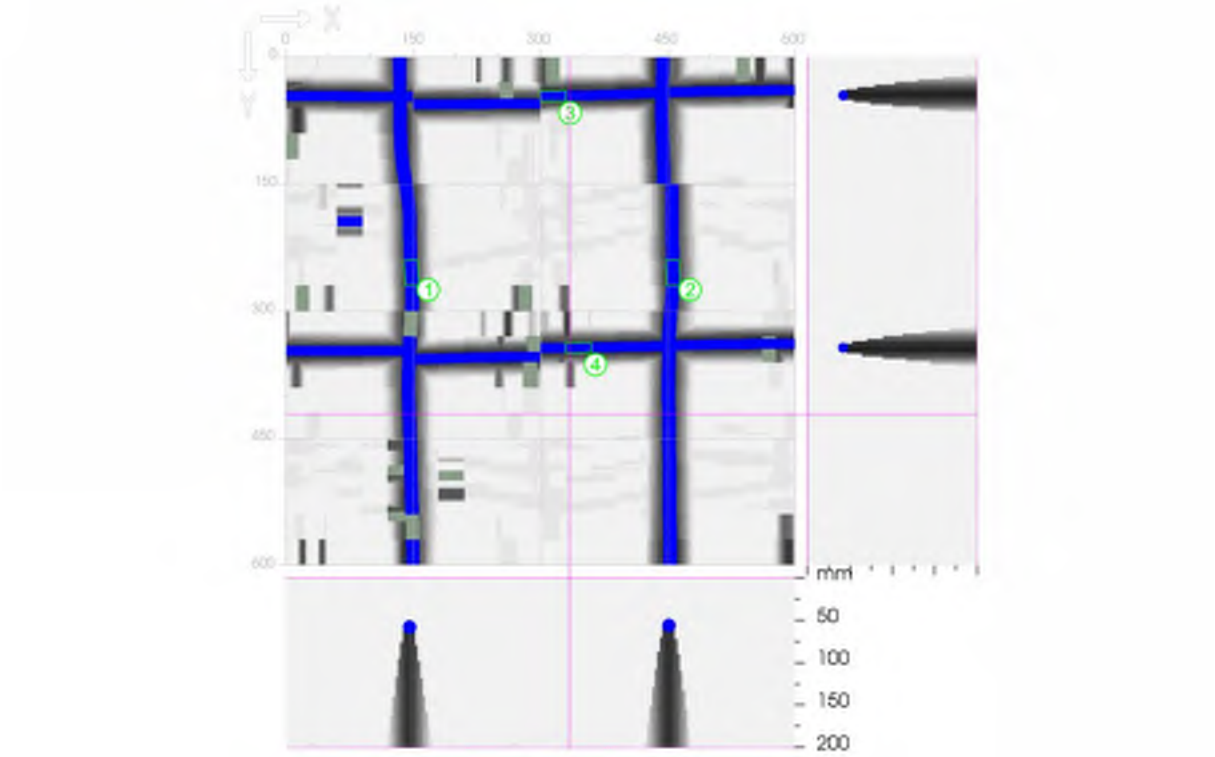
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 158 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	92 mm	435 mm	89 mm	28 mm	Vertical	High
2.	381 mm	405 mm	57 mm	28 mm	Vertical	High
3.	701 mm	405 mm	80 mm	28 mm	Vertical	High
4.	435 mm	168 mm	67 mm	10 mm	Horizontal	High
5.	525 mm	454 mm	67 mm	10 mm	Horizontal	High
6.	525 mm	755 mm	60 mm	10 mm	Horizontal	High
7.	555 mm	1059 mm	52 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	161.fscan
Serial number:	227190008
Date / Time:	2021-08-04 12:32:15
Comment:	-



x: 334 mm	y: 422 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

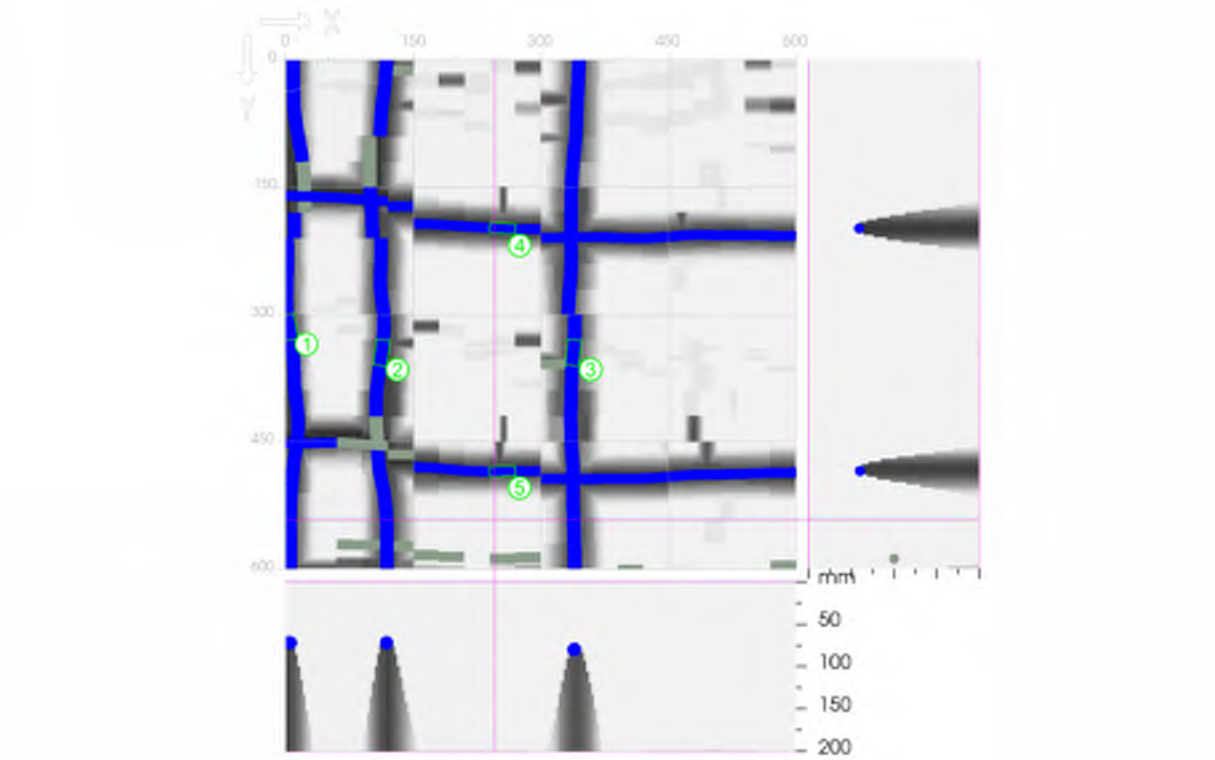
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 161	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	148 mm	255 mm	50 mm	16 mm	Vertical	High
2.	456 mm	255 mm	46 mm	16 mm	Vertical	High
3.	315 mm	46 mm	36 mm	12 mm	Horizontal	High
4.	345 mm	343 mm	36 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	162.fscan
Serial number:	227190008
Date / Time:	2021-08-04 12:26:58
Comment:	-



x: 246 mm	y: 542 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

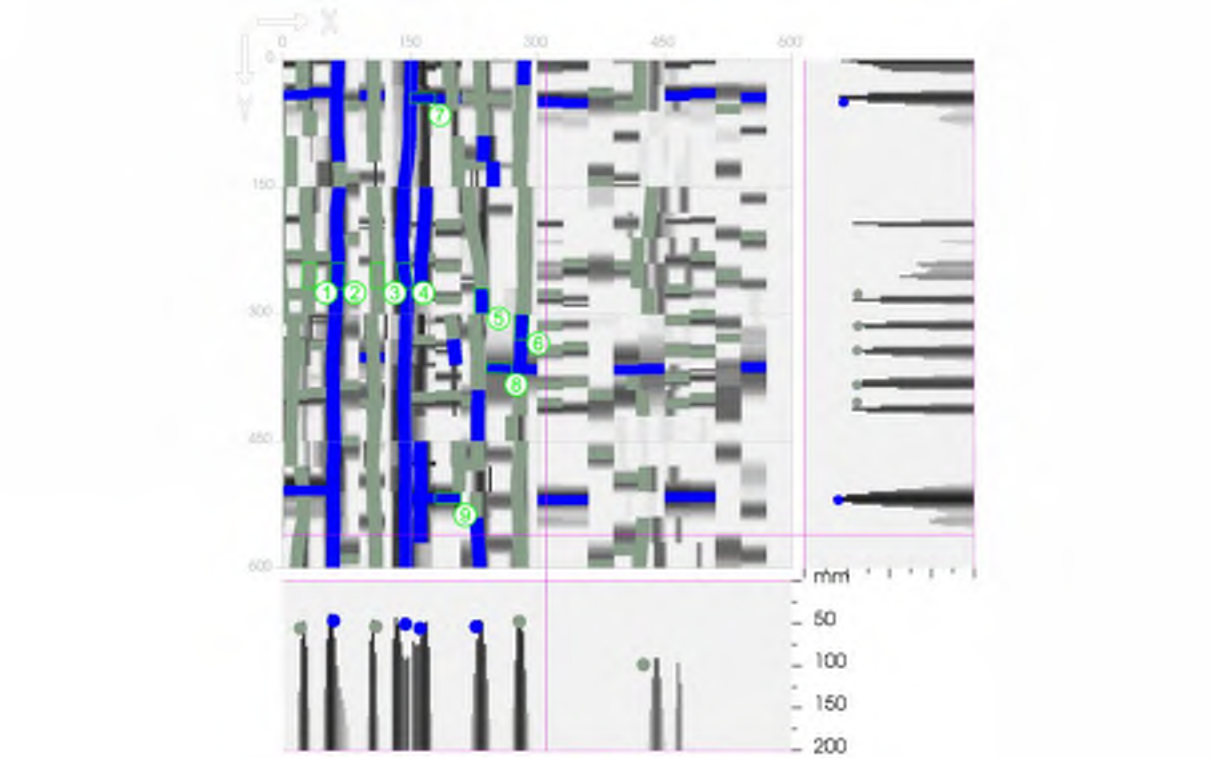
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 162	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	4 mm	315 mm	64 mm	16 mm	Vertical	High
2.	111 mm	345 mm	59 mm	16 mm	Vertical	High
3.	338 mm	345 mm	71 mm	16 mm	Vertical	High
4.	255 mm	199 mm	53 mm	12 mm	Horizontal	High
5.	255 mm	485 mm	54 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	163.fscan
Serial number:	227190008
Date / Time:	2021-08-09 14:28:36
Comment:	-



x: 311 mm	y: 561 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

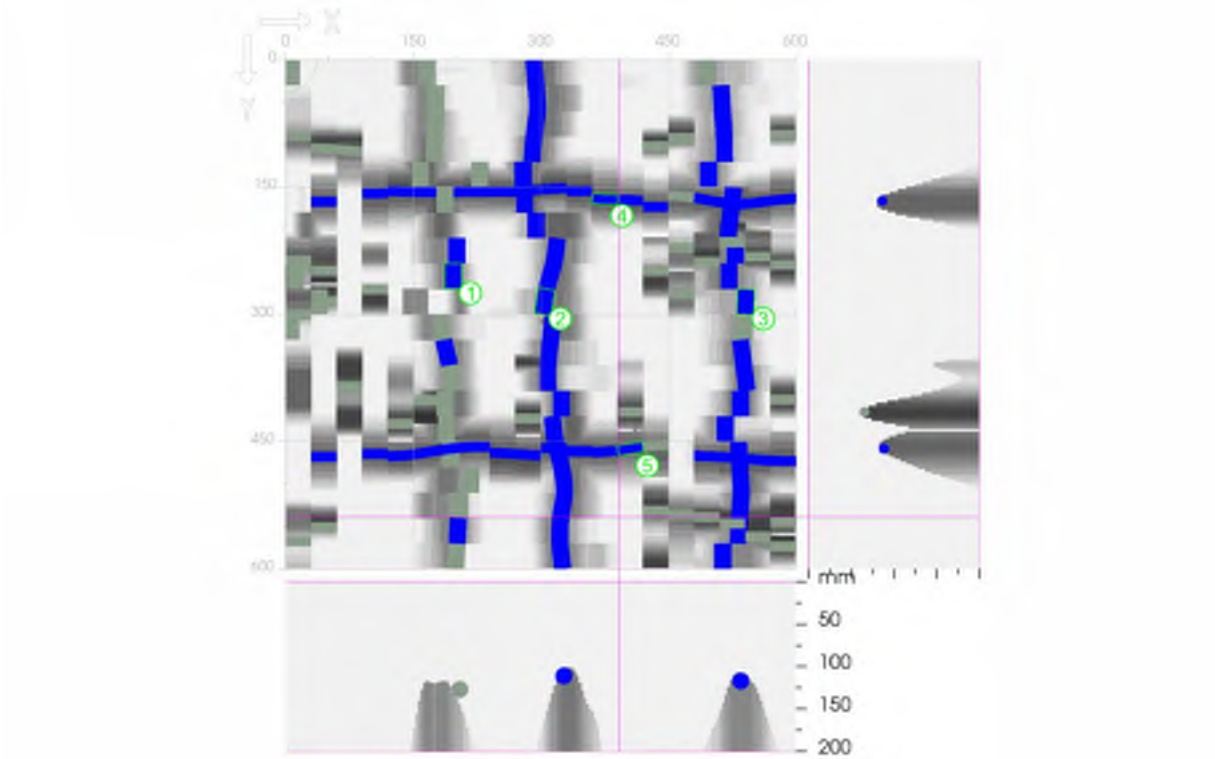
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 163	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	31 mm	255 mm	49 mm	16 mm	Vertical	Low
2.	65 mm	255 mm	41 mm	16 mm	Vertical	High
3.	112 mm	255 mm	45 mm	16 mm	Vertical	Low
4.	146 mm	255 mm	44 mm	16 mm	Vertical	High
5.	234 mm	285 mm	46 mm	16 mm	Vertical	High
6.	281 mm	315 mm	40 mm	16 mm	Vertical	High
7.	165 mm	45 mm	40 mm	12 mm	Horizontal	High
8.	255 mm	363 mm	80 mm	12 mm	Horizontal	High
9.	195 mm	517 mm	44 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	164.fscan
Serial number:	227190008
Date / Time:	2021-08-04 13:25:58
Comment:	-



x: 392 mm	y: 539 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

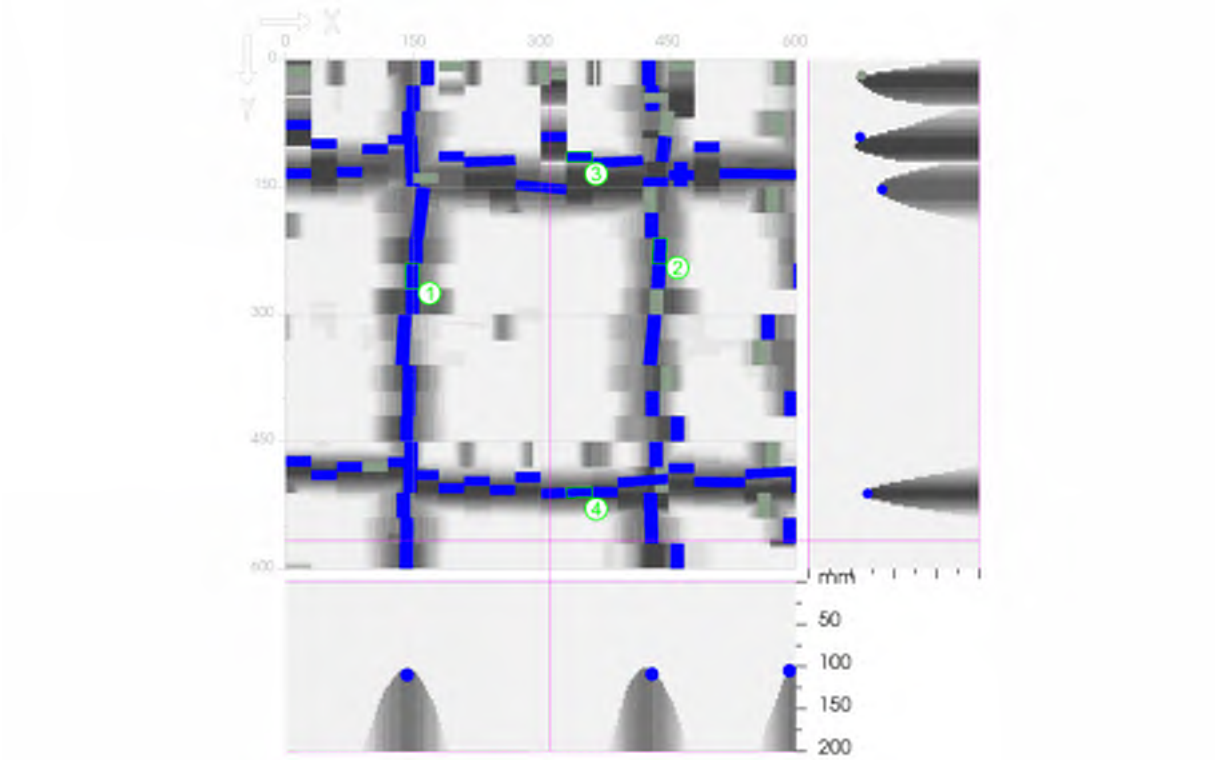
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 164	Object:	Wall
User:	BD		
Comment:	Main bar size is 19mm Smooth		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	20 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	197 mm	255 mm	100 mm	20 mm	Vertical	High
2.	303 mm	285 mm	104 mm	20 mm	Vertical	High
3.	541 mm	285 mm	137 mm	20 mm	Vertical	High
4.	375 mm	164 mm	83 mm	12 mm	Horizontal	High
5.	405 mm	458 mm	82 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	165.fscan
Serial number:	227190008
Date / Time:	2021-08-04 13:33:33
Comment:	-



x: 311 mm	y: 567 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

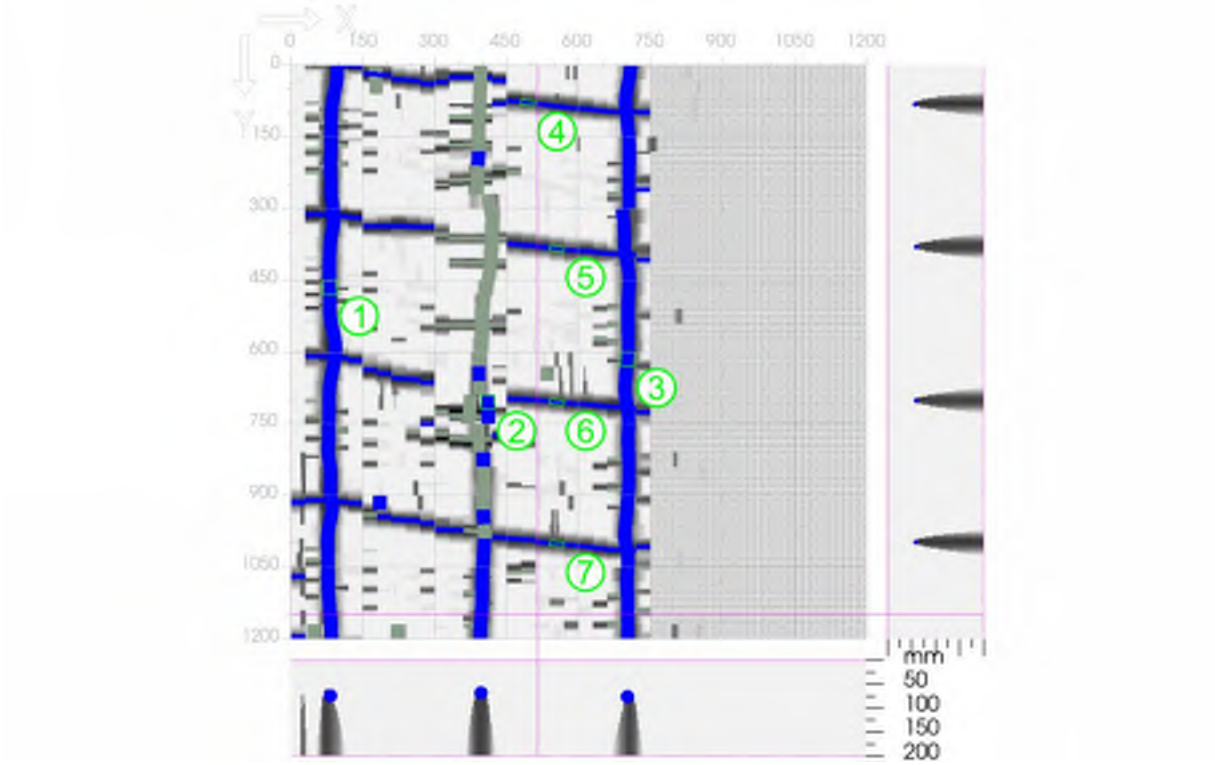
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 165	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	149 mm	255 mm	100 mm	16 mm	Vertical	High
2.	440 mm	225 mm	96 mm	16 mm	Vertical	High
3.	345 mm	114 mm	58 mm	12 mm	Horizontal	High
4.	345 mm	509 mm	65 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	166 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-08-04 12:54:50
Comment:	-



x: 516 mm	y: 1148 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

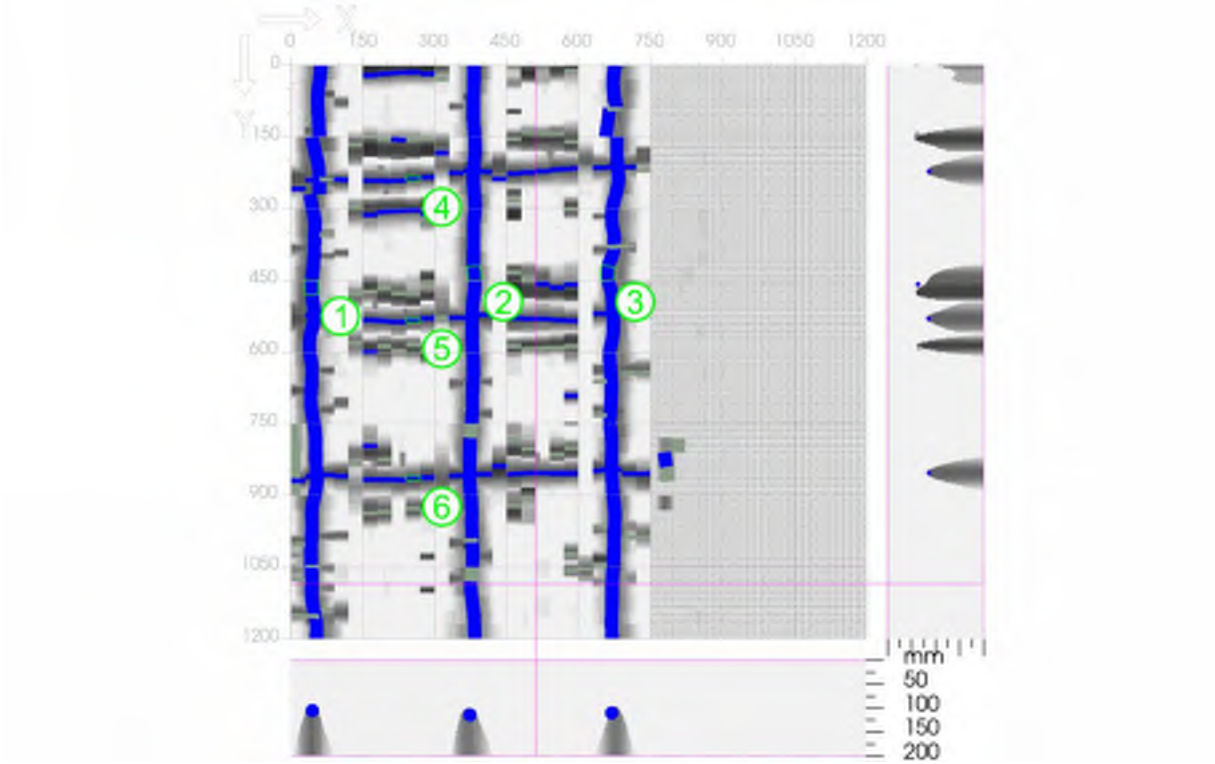
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 166 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	82 mm	465 mm	55 mm	28 mm	Vertical	High
2.	411 mm	705 mm	9 mm	28 mm	Vertical	High
3.	703 mm	615 mm	67 mm	28 mm	Vertical	High
4.	495 mm	78 mm	50 mm	10 mm	Horizontal	High
5.	555 mm	384 mm	55 mm	10 mm	Horizontal	High
6.	555 mm	705 mm	55 mm	10 mm	Horizontal	High
7.	555 mm	1001 mm	54 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	166 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-08-04 13:02:08
Comment:	-



x: 511 mm	y: 1085 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

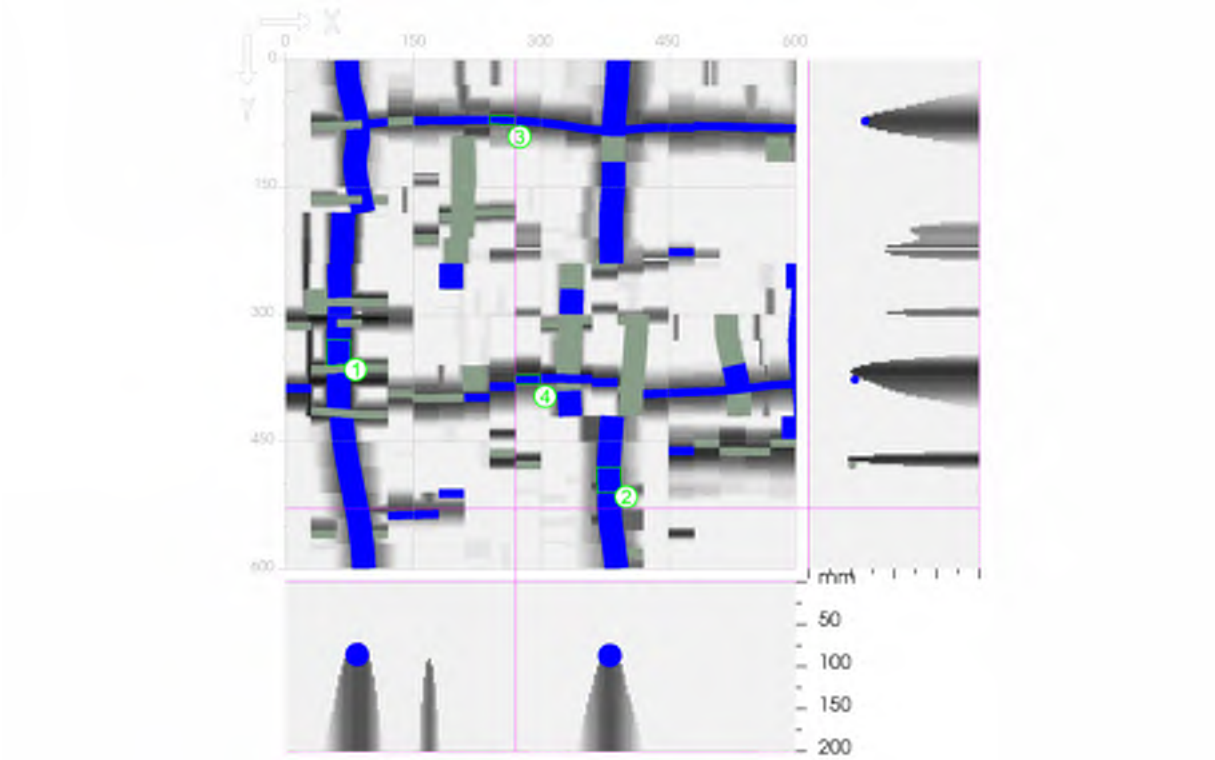
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 166 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	43 mm	465 mm	87 mm	28 mm	Vertical	High
2.	383 mm	435 mm	84 mm	28 mm	Vertical	High
3.	658 mm	435 mm	94 mm	28 mm	Vertical	High
4.	255 mm	237 mm	75 mm	10 mm	Horizontal	High
5.	255 mm	533 mm	76 mm	10 mm	Horizontal	High
6.	255 mm	863 mm	74 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	167.fscan
Serial number:	227190008
Date / Time:	2021-08-05 13:18:30
Comment:	-



x: 270 mm	y: 529 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

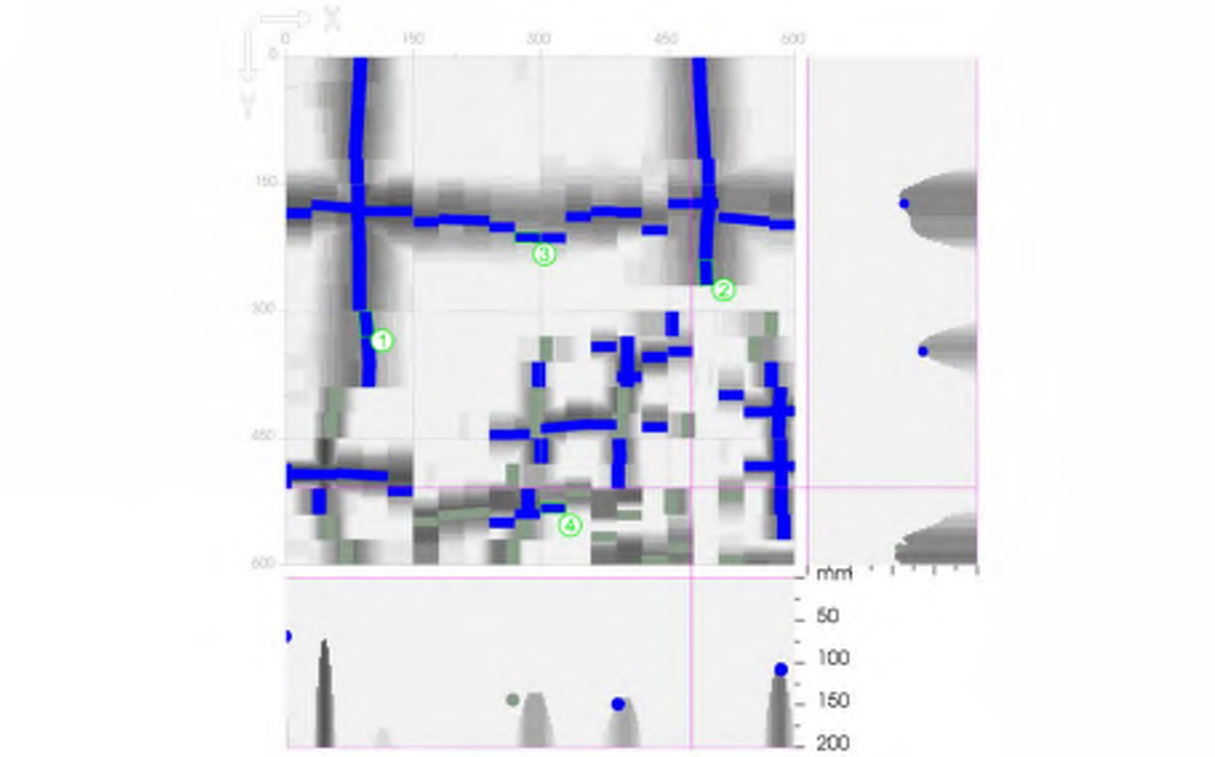
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 167	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	62 mm	345 mm	24 mm	28 mm	Vertical	High
2.	380 mm	495 mm	71 mm	28 mm	Vertical	High
3.	255 mm	71 mm	59 mm	10 mm	Horizontal	High
4.	285 mm	377 mm	49 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	170.fscan
Serial number:	227190008
Date / Time:	2021-08-05 13:46:19
Comment:	-



x: 478 mm	y: 509 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

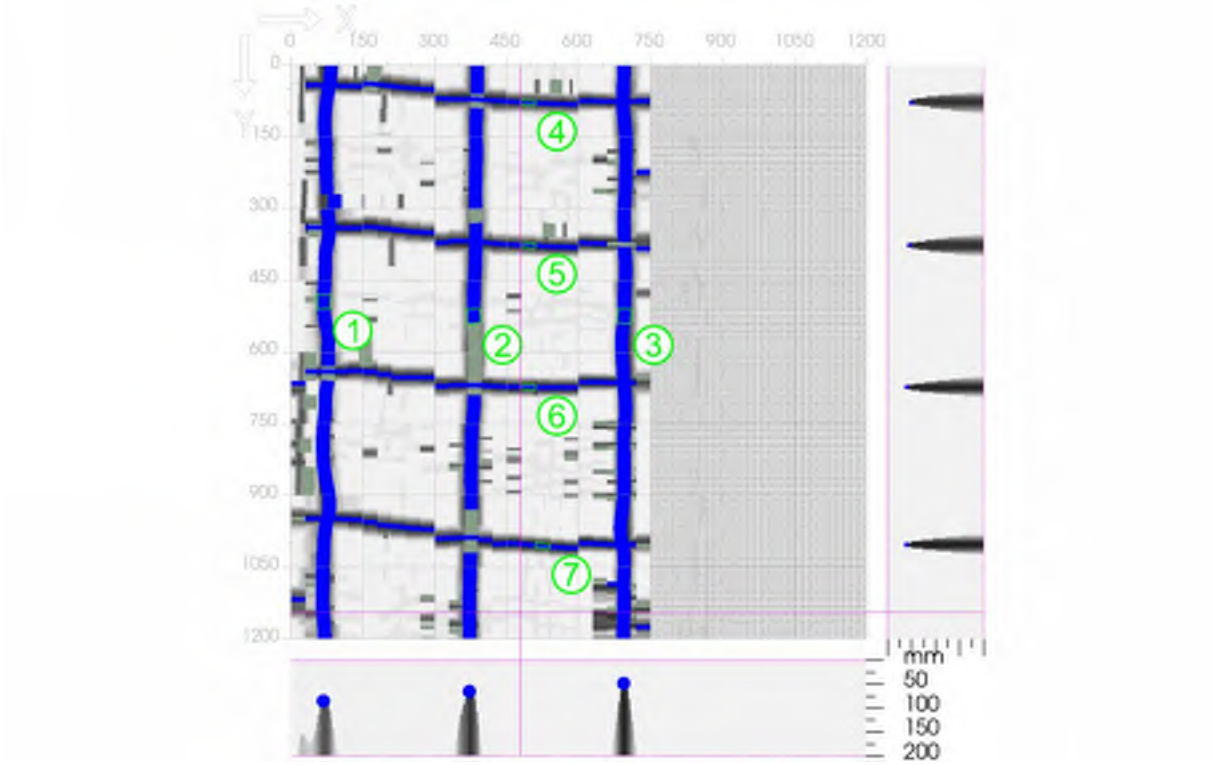
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 170	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	93 mm	315 mm	110 mm	16 mm	Vertical	High
2.	496 mm	255 mm	106 mm	16 mm	Vertical	High
3.	285 mm	213 mm	117 mm	12 mm	Horizontal	High
4.	315 mm	533 mm	116 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	174 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-08-04 13:07:31
Comment:	-



x: 480 mm	y: 1144 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

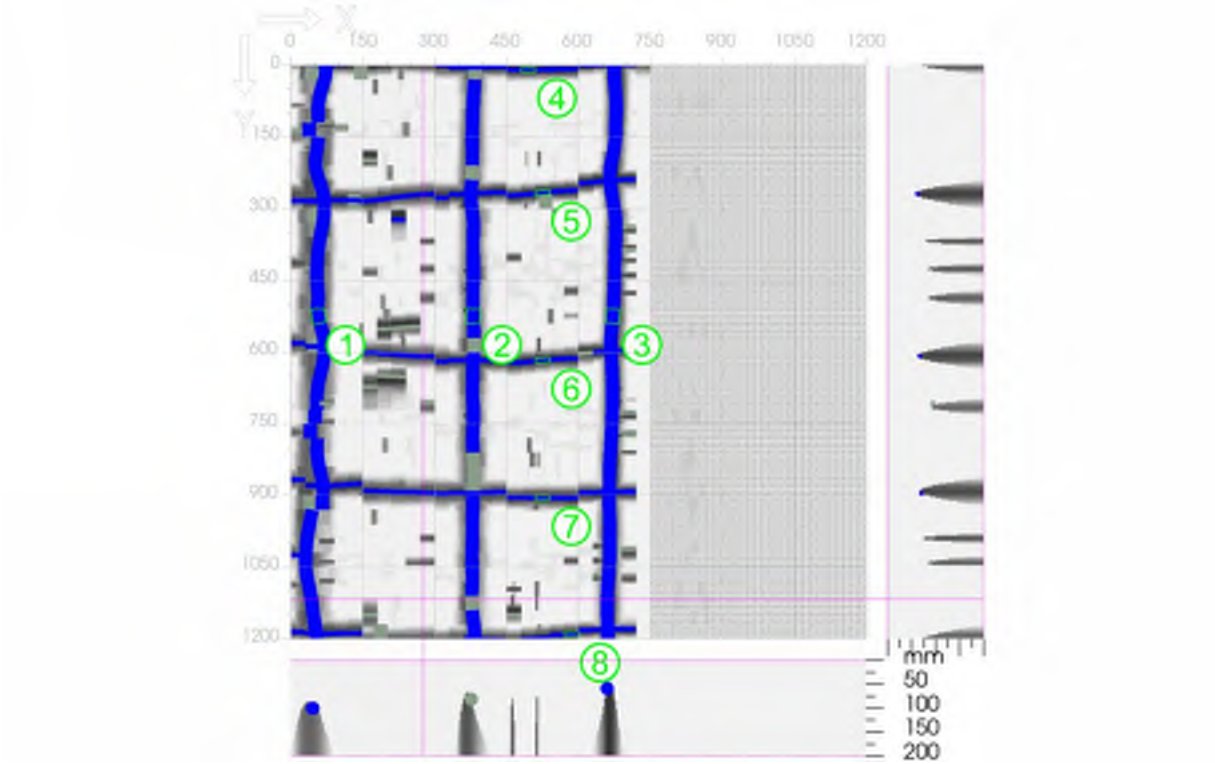
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 174 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	69 mm	495 mm	64 mm	28 mm	Vertical	High
2.	381 mm	525 mm	52 mm	28 mm	Vertical	High
3.	696 mm	525 mm	42 mm	28 mm	Vertical	High
4.	495 mm	78 mm	44 mm	10 mm	Horizontal	High
5.	495 mm	377 mm	40 mm	10 mm	Horizontal	High
6.	495 mm	673 mm	35 mm	10 mm	Horizontal	High
7.	525 mm	1005 mm	32 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	174 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-08-04 12:48:48
Comment:	-



x: 275 mm	y: 1117 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

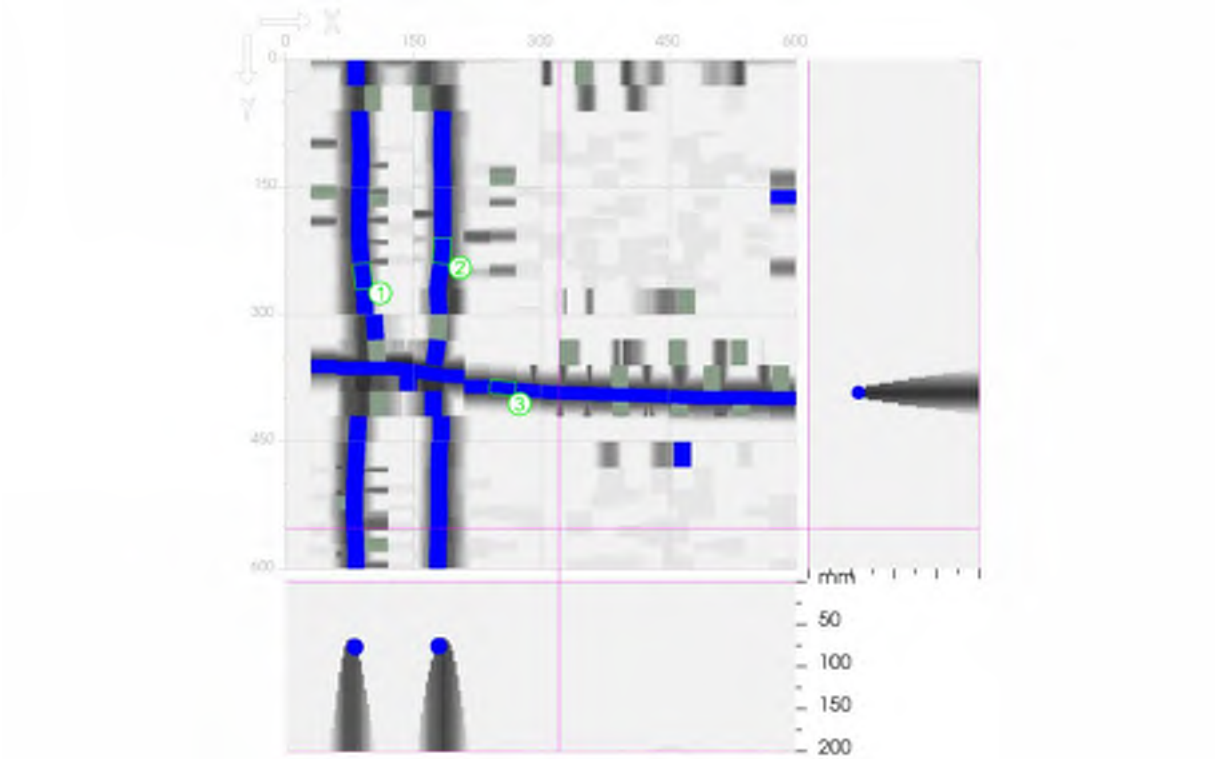
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 174 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	54 mm	525 mm	80 mm	28 mm	Vertical	High
2.	381 mm	525 mm	66 mm	28 mm	Vertical	High
3.	672 mm	525 mm	50 mm	28 mm	Vertical	High
4.	495 mm	9 mm	45 mm	10 mm	Horizontal	High
5.	525 mm	267 mm	47 mm	10 mm	Horizontal	High
6.	525 mm	617 mm	51 mm	10 mm	Horizontal	High
7.	525 mm	905 mm	55 mm	10 mm	Horizontal	High
8.	585 mm	1190 mm	49 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	175.fscan
Serial number:	227190008
Date / Time:	2021-08-04 12:21:03
Comment:	-



x: 321 mm y: 552 mm z: 0 mm Thickness: 200 mm
Overlay: - mm

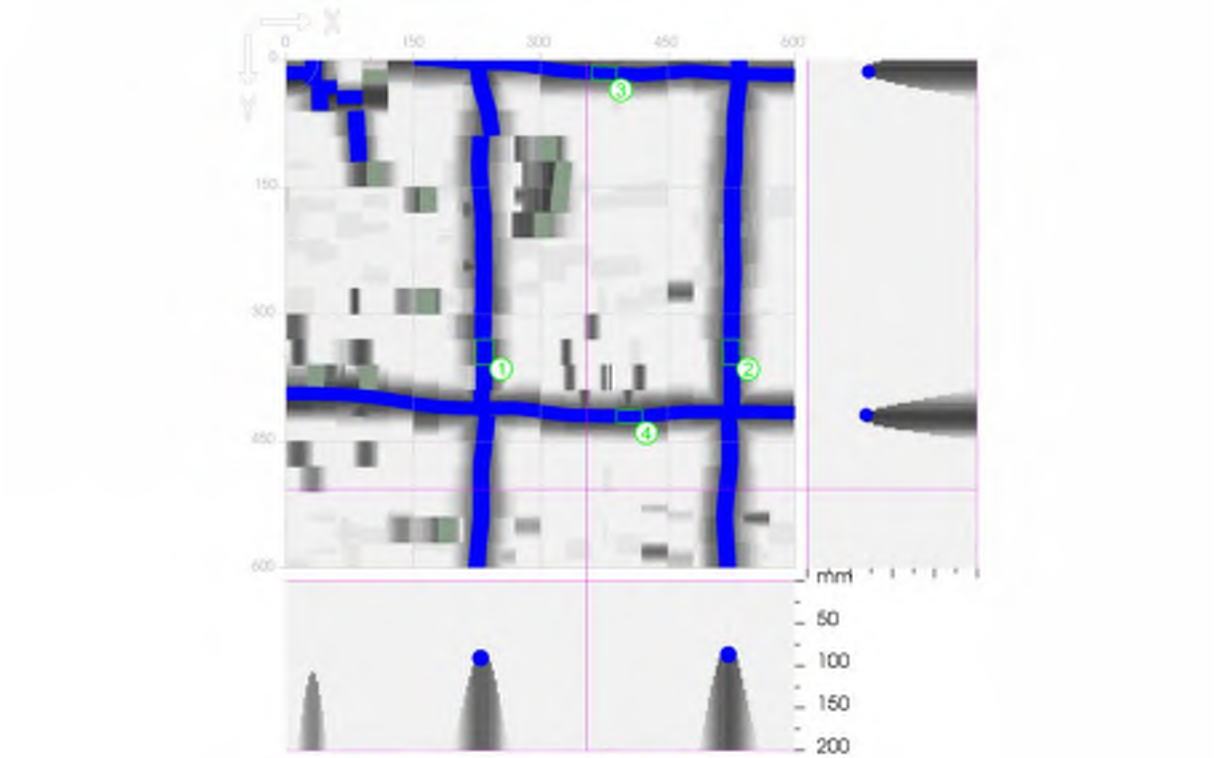
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 175	Object:	Wall
User:	BD		
Comment:	Main bar size is 19mm Smooth		

Ø Horizontal:	16 mm +/- 0 mm	Type:	Input
Ø Vertical:	20 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	91 mm	255 mm	61 mm	20 mm	Vertical	High
2.	185 mm	225 mm	66 mm	20 mm	Vertical	High
3.	255 mm	386 mm	48 mm	16 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	176.fscan
Serial number:	227190008
Date / Time:	2021-08-04 12:15:49
Comment:	-



x: 355 mm	y: 507 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

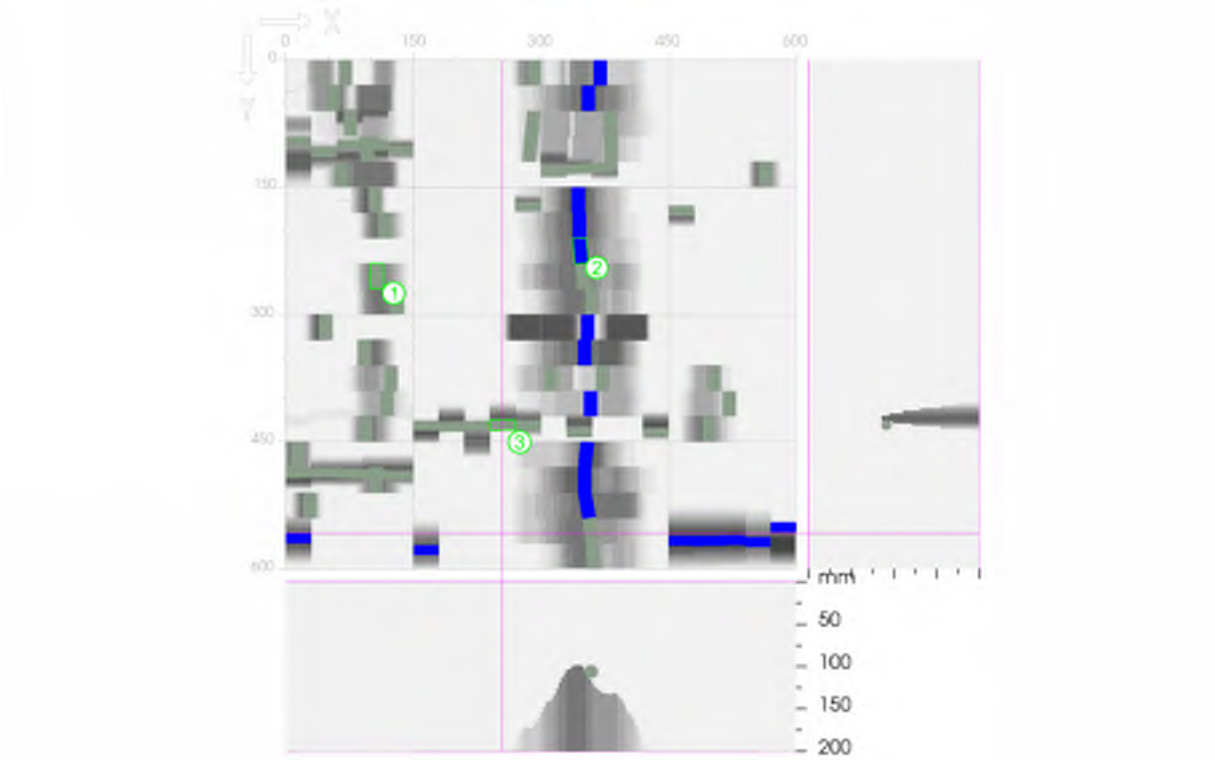
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 176	Object:	Wall
User:	BD		
Comment:	Main bar size is 19mm Smooth		

Ø Horizontal:	16 mm +/- 0 mm	Type:	Input
Ø Vertical:	20 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	234 mm	345 mm	66 mm	20 mm	Vertical	High
2.	525 mm	345 mm	65 mm	20 mm	Vertical	High
3.	375 mm	16 mm	64 mm	16 mm	Horizontal	High
4.	405 mm	420 mm	61 mm	16 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	177.fscan
Serial number:	227190008
Date / Time:	2021-08-09 12:52:53
Comment:	-



x: 255 mm	y: 558 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

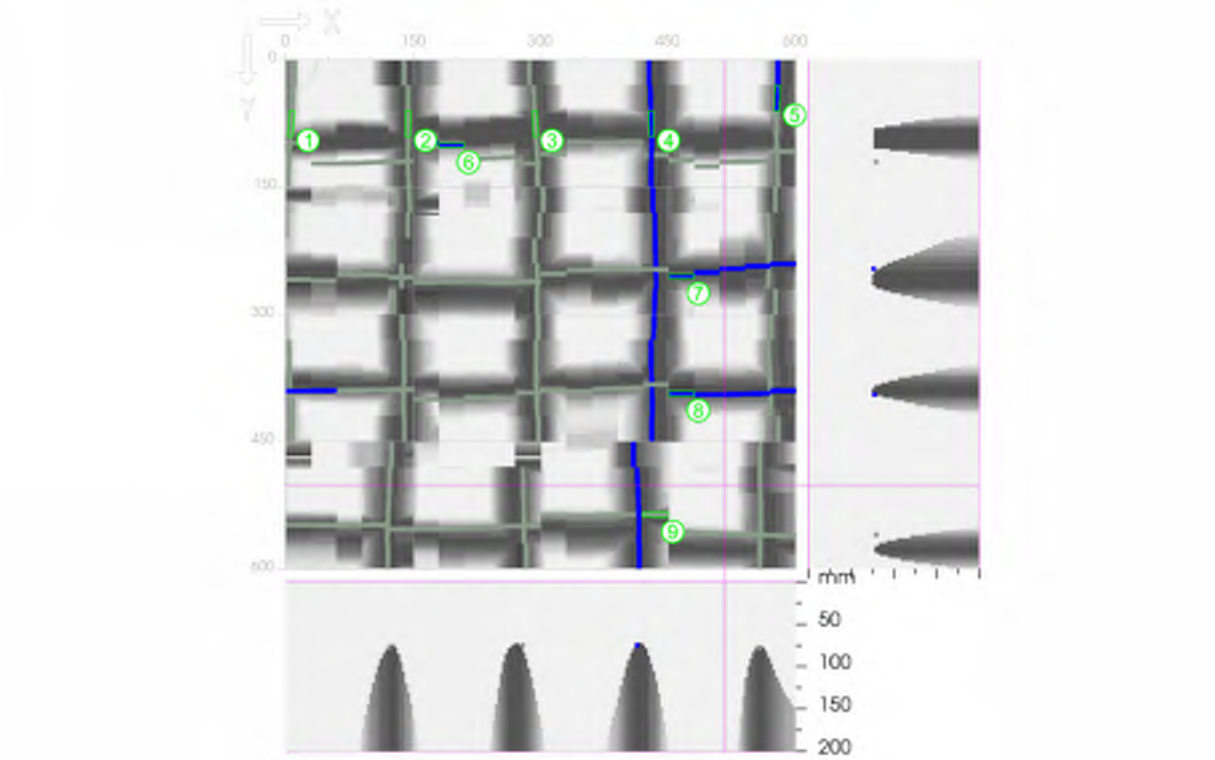
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 177	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	107 mm	255 mm	100 mm	16 mm	Vertical	Low
2.	346 mm	225 mm	96 mm	16 mm	Vertical	High
3.	255 mm	430 mm	85 mm	12 mm	Horizontal	Low

.Hilti PROFIS Detection Report

Scan File:	178.fscan
Serial number:	227190008
Date / Time:	2021-08-09 11:50:15
Comment:	-



x: 516 mm	y: 501 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

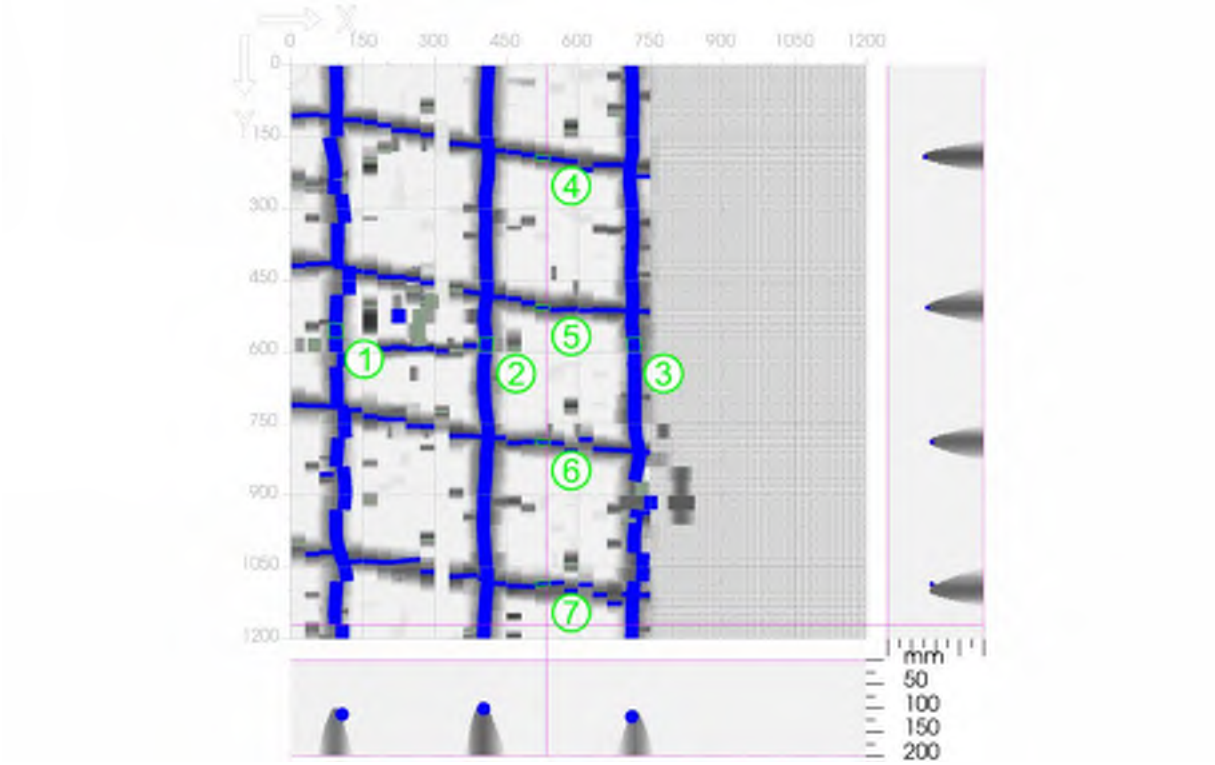
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 178	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	6 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	6 mm	75 mm	71 mm	6 mm	Vertical	Low
2.	144 mm	75 mm	71 mm	6 mm	Vertical	Low
3.	293 mm	75 mm	72 mm	6 mm	Vertical	Low
4.	430 mm	75 mm	72 mm	6 mm	Vertical	High
5.	578 mm	45 mm	75 mm	6 mm	Vertical	High
6.	195 mm	101 mm	70 mm	6 mm	Horizontal	High
7.	465 mm	255 mm	67 mm	6 mm	Horizontal	High
8.	465 mm	393 mm	66 mm	6 mm	Horizontal	High
9.	435 mm	536 mm	76 mm	6 mm	Horizontal	Low

.Hilti PROFIS Detection Report

Scan File:	181 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-08-04 12:02:55
Comment:	-



x: 532 mm	y: 1170 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

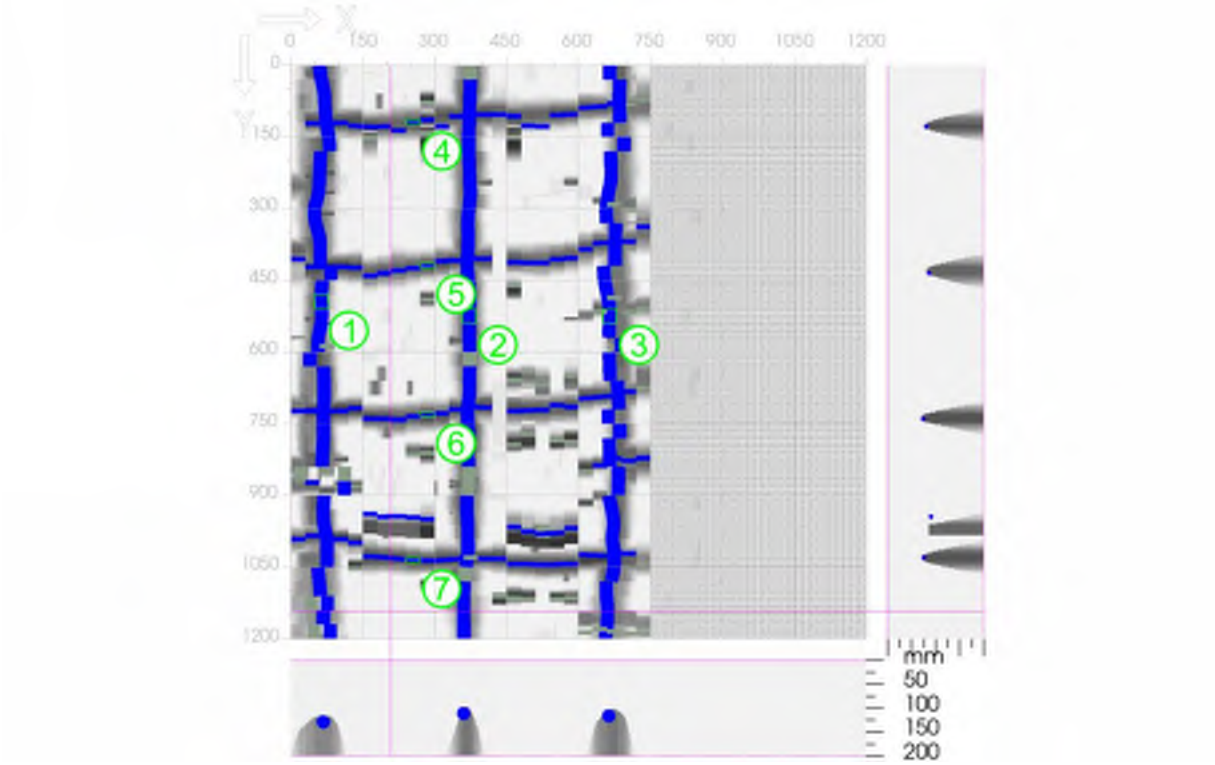
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 181 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	93 mm	555 mm	86 mm	28 mm	Vertical	High
2.	410 mm	585 mm	82 mm	28 mm	Vertical	High
3.	717 mm	585 mm	88 mm	28 mm	Vertical	High
4.	525 mm	192 mm	73 mm	10 mm	Horizontal	High
5.	525 mm	507 mm	78 mm	10 mm	Horizontal	High
6.	525 mm	788 mm	87 mm	10 mm	Horizontal	High
7.	525 mm	1085 mm	87 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	181 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-08-04 11:58:09
Comment:	-



x: 208 mm	y: 1143 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

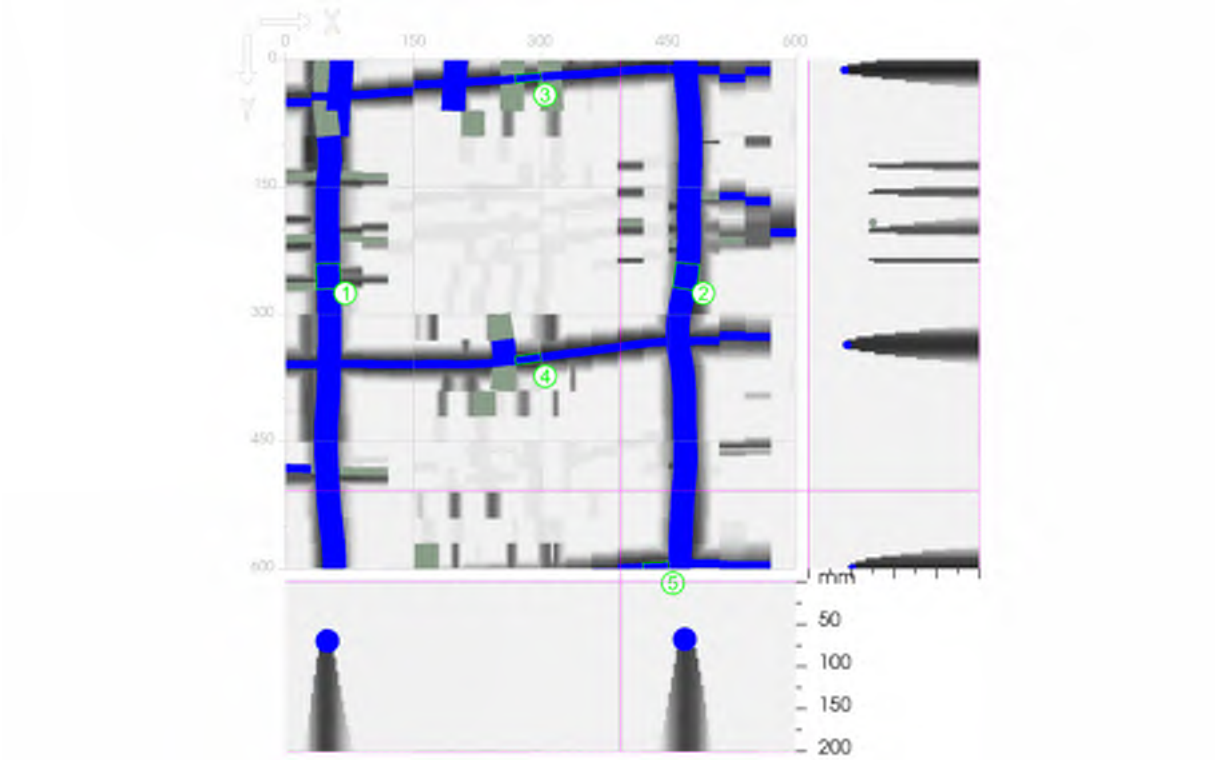
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 181 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	61 mm	495 mm	86 mm	28 mm	Vertical	High
2.	372 mm	525 mm	86 mm	28 mm	Vertical	High
3.	666 mm	525 mm	96 mm	28 mm	Vertical	High
4.	255 mm	120 mm	77 mm	10 mm	Horizontal	High
5.	285 mm	419 mm	71 mm	10 mm	Horizontal	High
6.	285 mm	731 mm	69 mm	10 mm	Horizontal	High
7.	255 mm	1035 mm	69 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	182 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-08-04 11:49:49
Comment:	-



x: 394 mm	y: 507 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

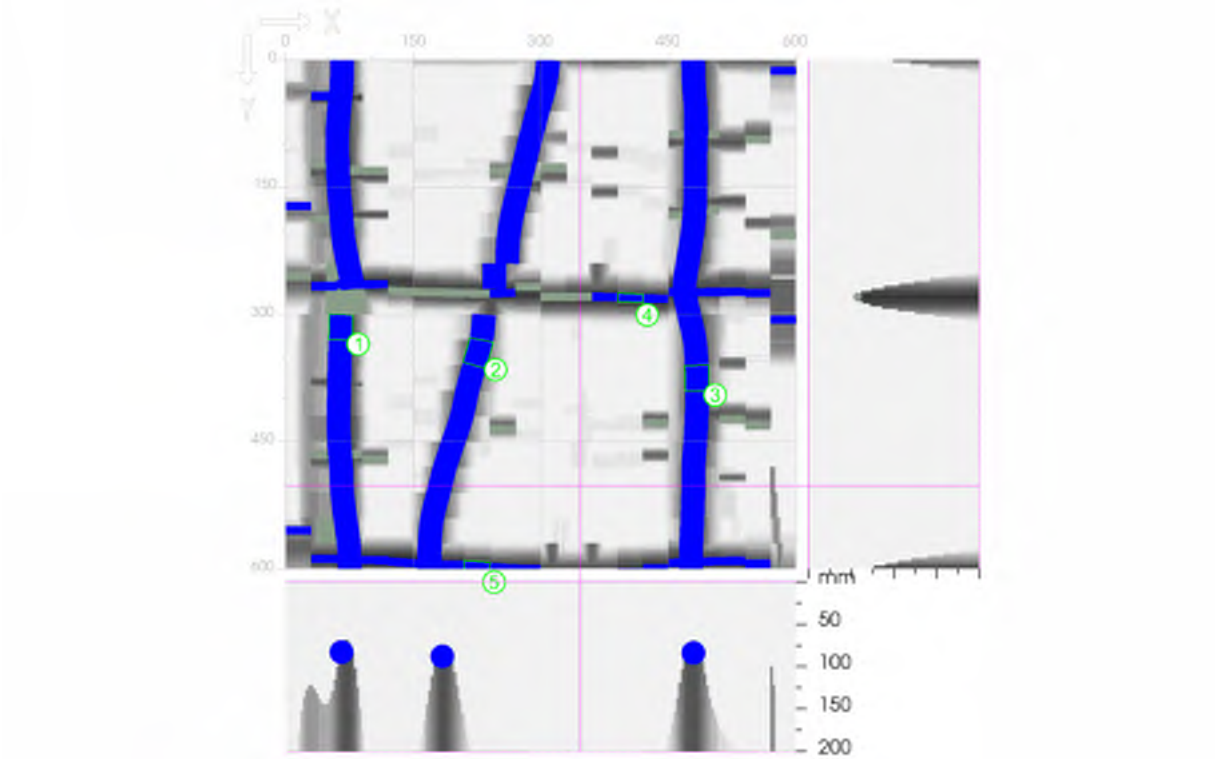
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 182 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	50 mm	255 mm	55 mm	28 mm	Vertical	High
2.	471 mm	255 mm	49 mm	28 mm	Vertical	High
3.	285 mm	21 mm	35 mm	10 mm	Horizontal	High
4.	285 mm	353 mm	41 mm	10 mm	Horizontal	High
5.	435 mm	597 mm	44 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	182 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-08-04 11:53:35
Comment:	-



x: 346 mm	y: 502 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

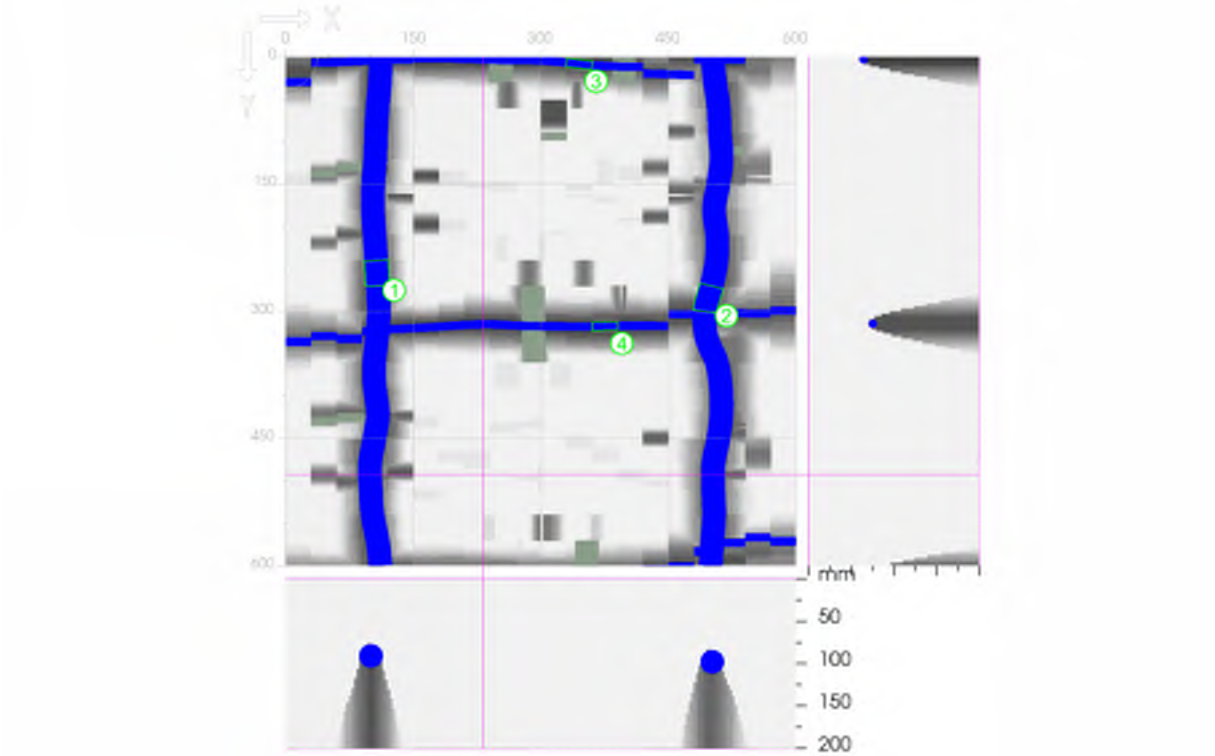
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 182 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	65 mm	315 mm	70 mm	28 mm	Vertical	High
2.	227 mm	345 mm	75 mm	28 mm	Vertical	High
3.	485 mm	375 mm	70 mm	28 mm	Vertical	High
4.	405 mm	281 mm	51 mm	10 mm	Horizontal	High
5.	225 mm	595 mm	57 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	183 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-08-04 11:43:36
Comment:	-



x: 232 mm	y: 492 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

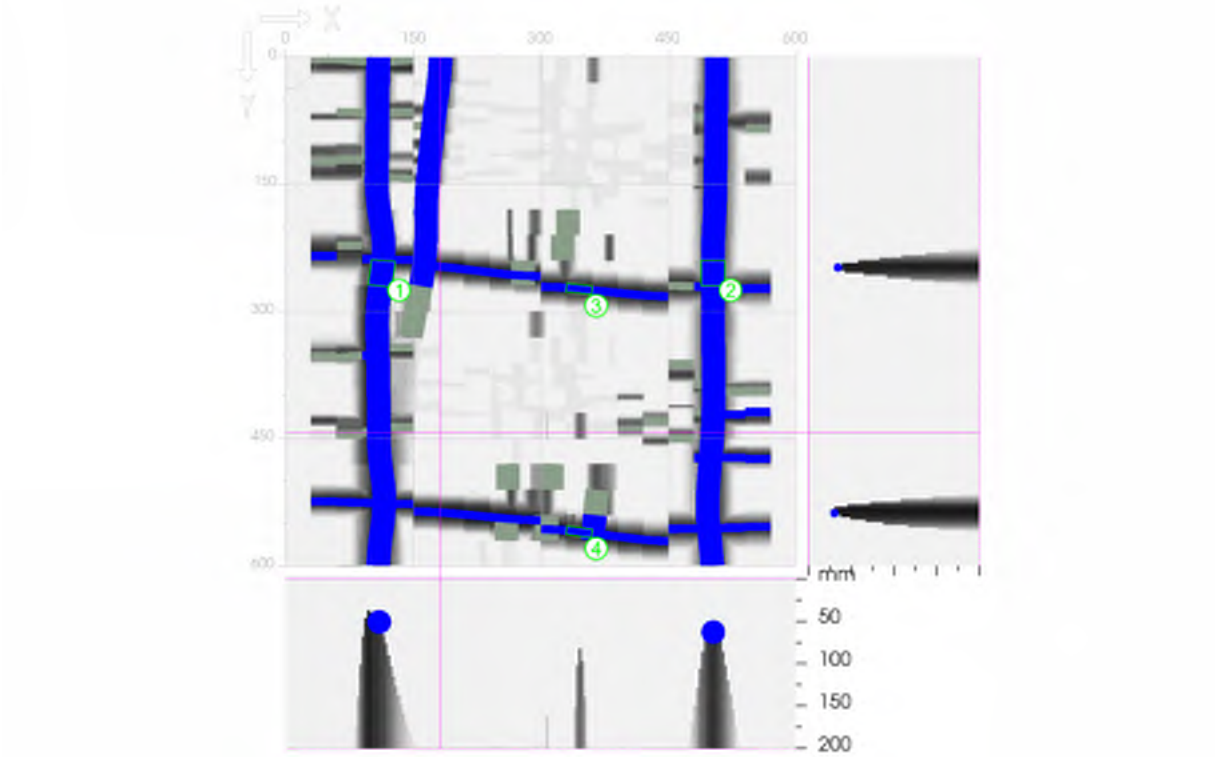
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 183 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	107 mm	255 mm	75 mm	28 mm	Vertical	High
2.	498 mm	285 mm	86 mm	28 mm	Vertical	High
3.	345 mm	9 mm	67 mm	10 mm	Horizontal	High
4.	375 mm	318 mm	64 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	183 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-08-04 11:46:53
Comment:	-



x: 182 mm	y: 443 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

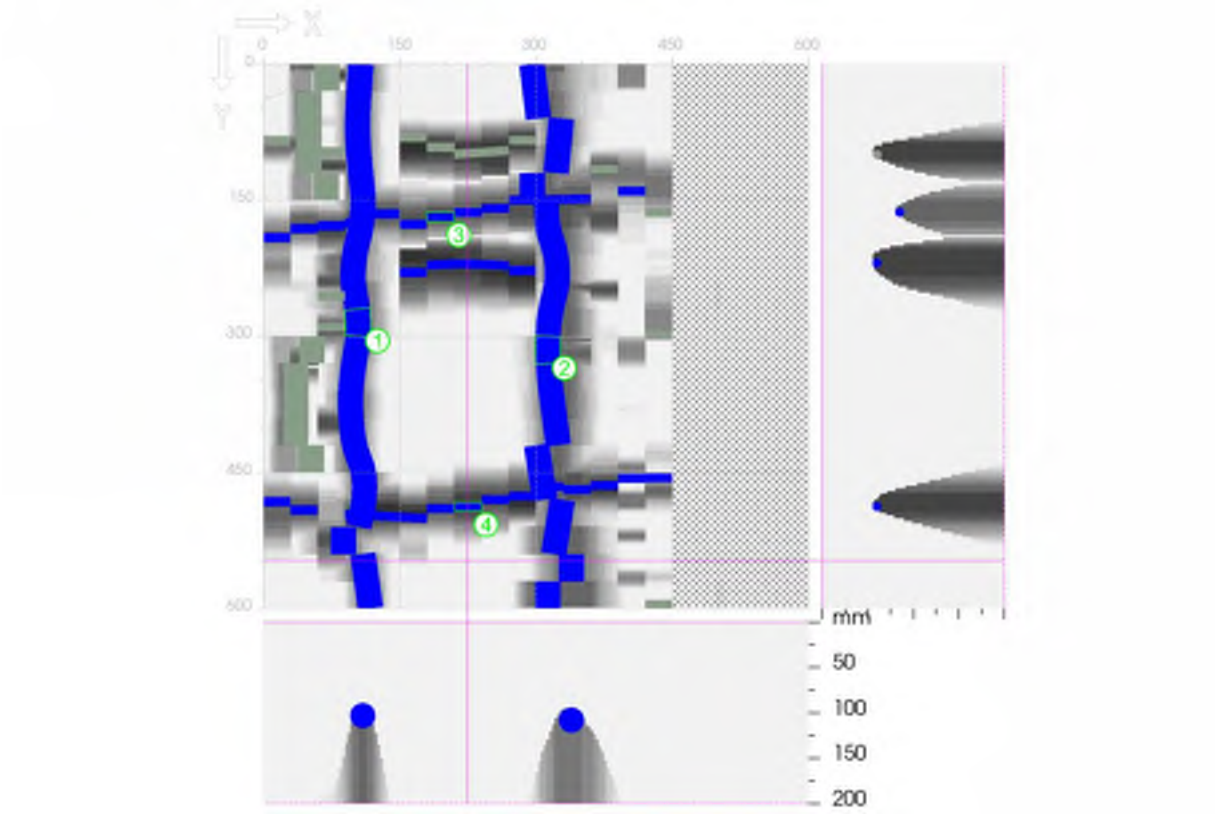
Project name:	CIS - L1	Customer:	CIS Tower
Location:	Level 1 Loc 183 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	113 mm	255 mm	38 mm	28 mm	Vertical	High
2.	503 mm	255 mm	53 mm	28 mm	Vertical	High
3.	345 mm	273 mm	36 mm	10 mm	Horizontal	High
4.	345 mm	560 mm	32 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	184 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-07-12 18:13:56
Comment:	-



x: 224 mm	y: 547 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

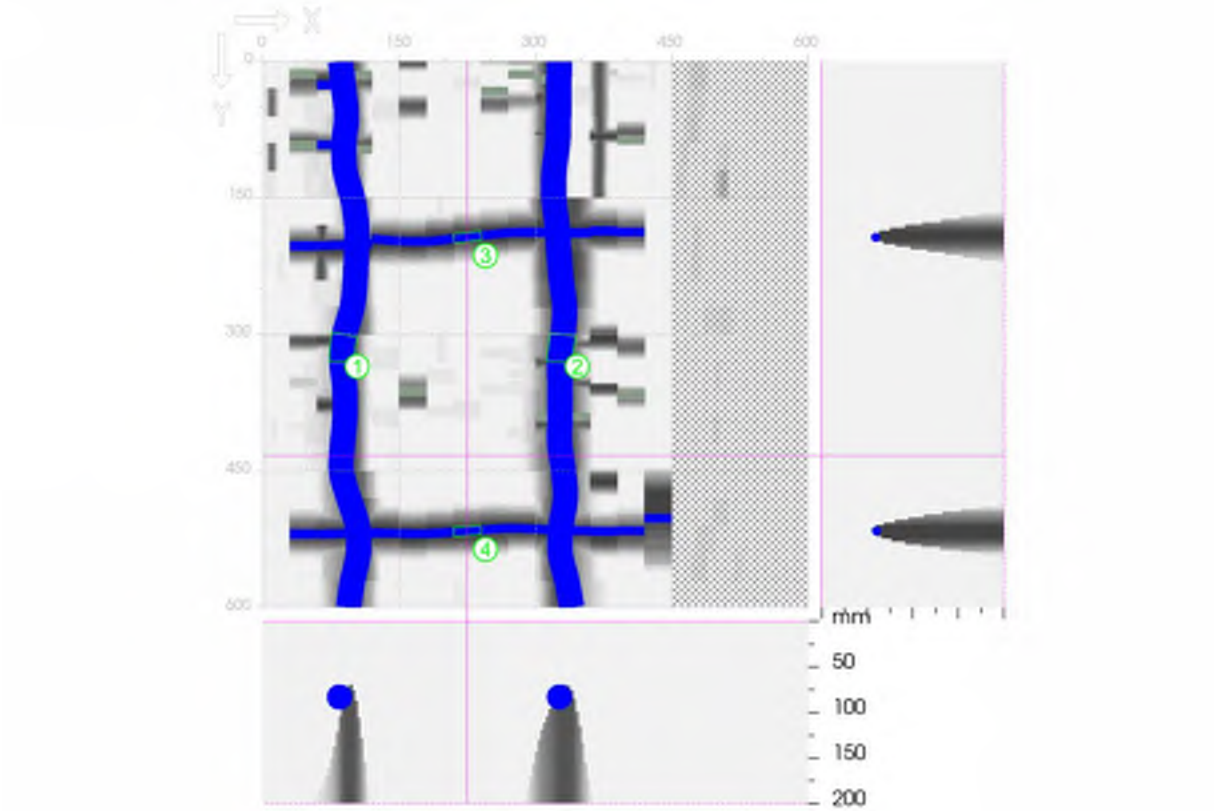
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 184 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	105 mm	285 mm	95 mm	28 mm	Vertical	High
2.	311 mm	315 mm	94 mm	28 mm	Vertical	High
3.	195 mm	168 mm	74 mm	10 mm	Horizontal	High
4.	225 mm	488 mm	55 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	184 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-07-12 18:11:24
Comment:	-



x: 225 mm	y: 433 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

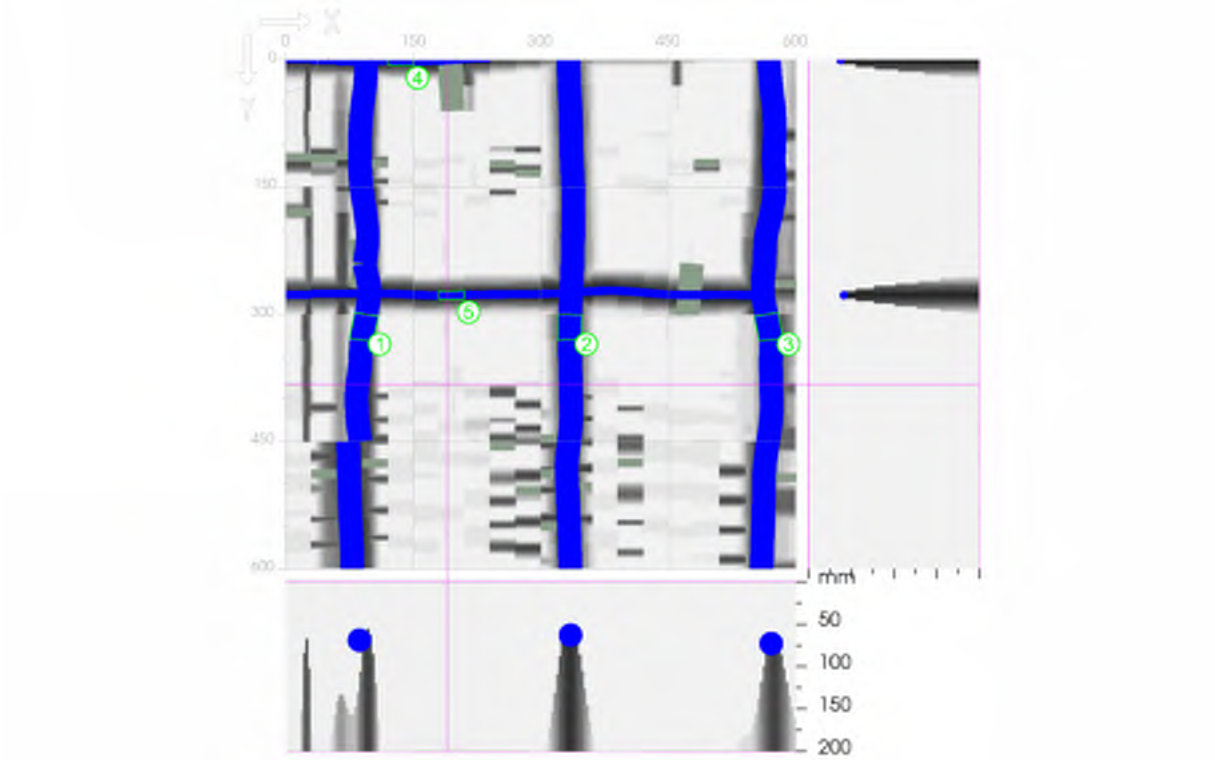
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 184 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	84 mm	315 mm	70 mm	28 mm	Vertical	High
2.	326 mm	315 mm	70 mm	28 mm	Vertical	High
3.	225 mm	193 mm	54 mm	10 mm	Horizontal	High
4.	225 mm	516 mm	55 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	185 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-07-13 12:08:46
Comment:	-



x: 190 mm	y: 382 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

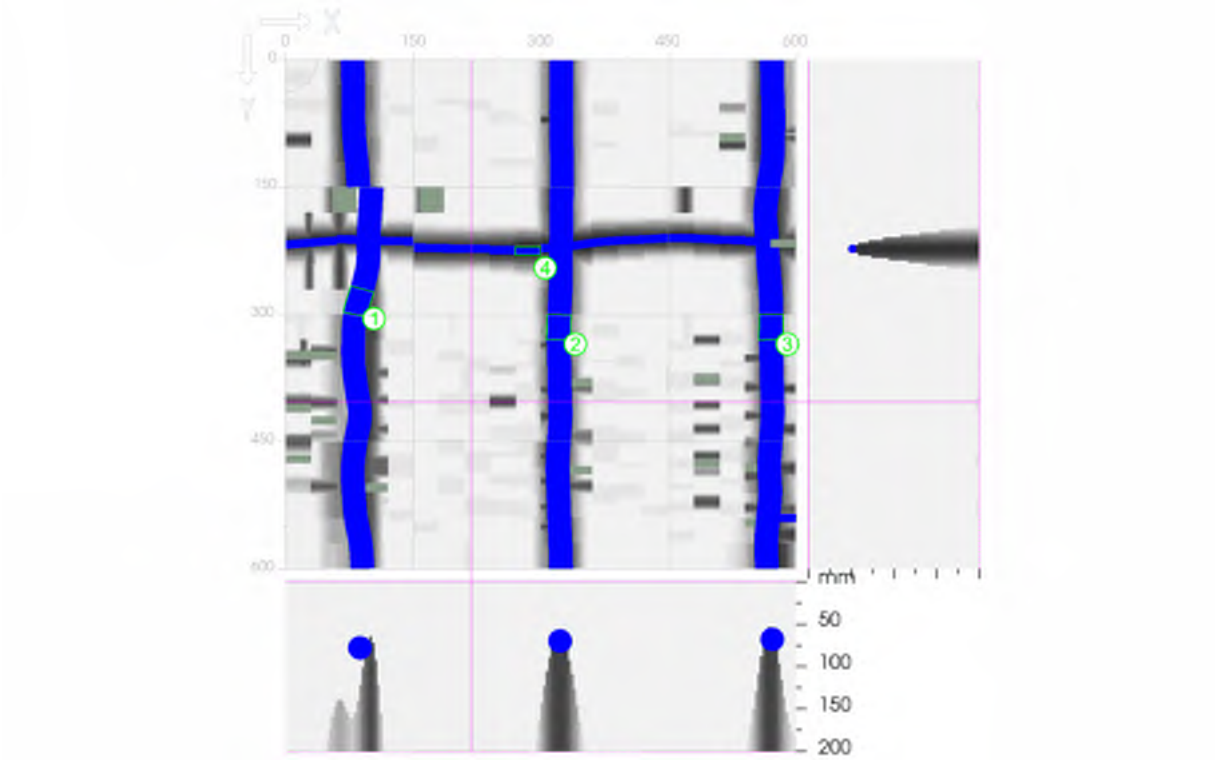
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 185 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	90 mm	315 mm	55 mm	28 mm	Vertical	High
2.	333 mm	315 mm	48 mm	28 mm	Vertical	High
3.	571 mm	315 mm	59 mm	28 mm	Vertical	High
4.	135 mm	1 mm	33 mm	10 mm	Horizontal	High
5.	195 mm	277 mm	36 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	185 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-07-13 12:10:15
Comment:	-



x: 218 mm	y: 403 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

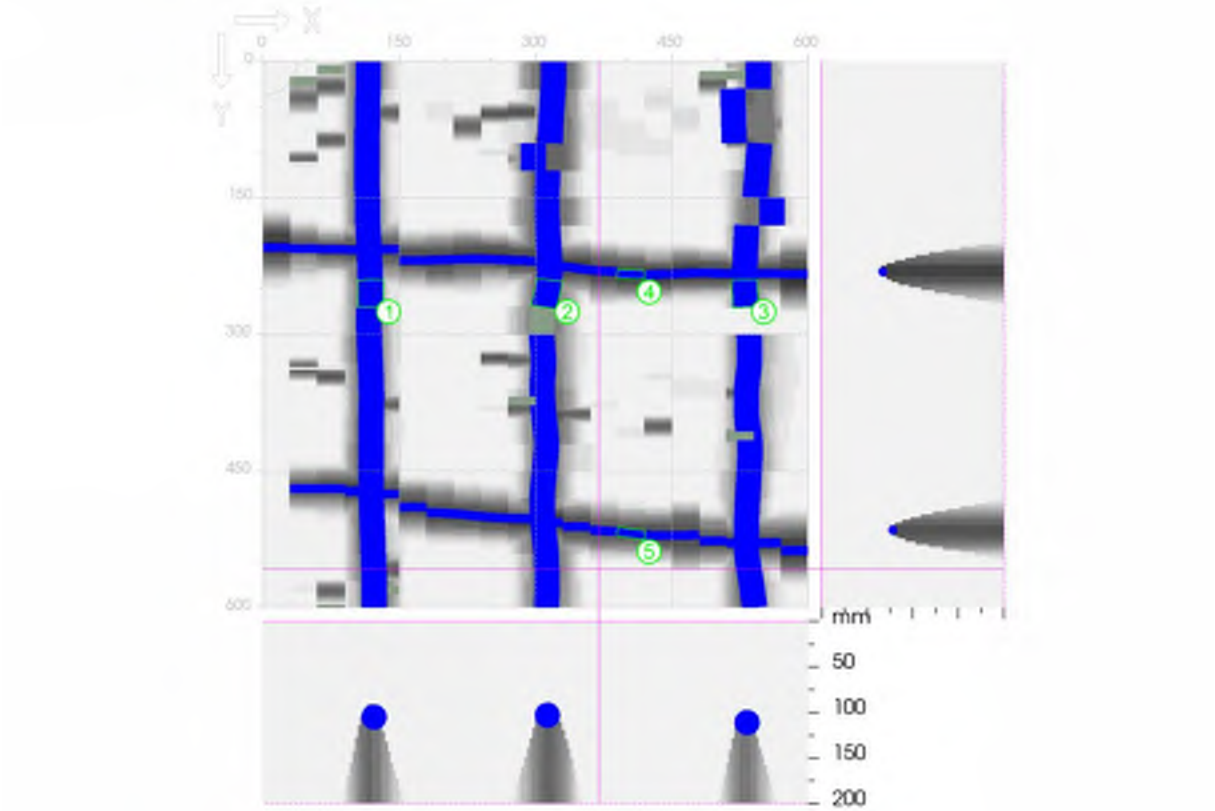
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 185 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	84 mm	285 mm	63 mm	28 mm	Vertical	High
2.	320 mm	315 mm	57 mm	28 mm	Vertical	High
3.	570 mm	315 mm	54 mm	28 mm	Vertical	High
4.	285 mm	225 mm	34 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	186 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-07-13 12:33:37
Comment:	-



x: 370 mm	y: 558 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

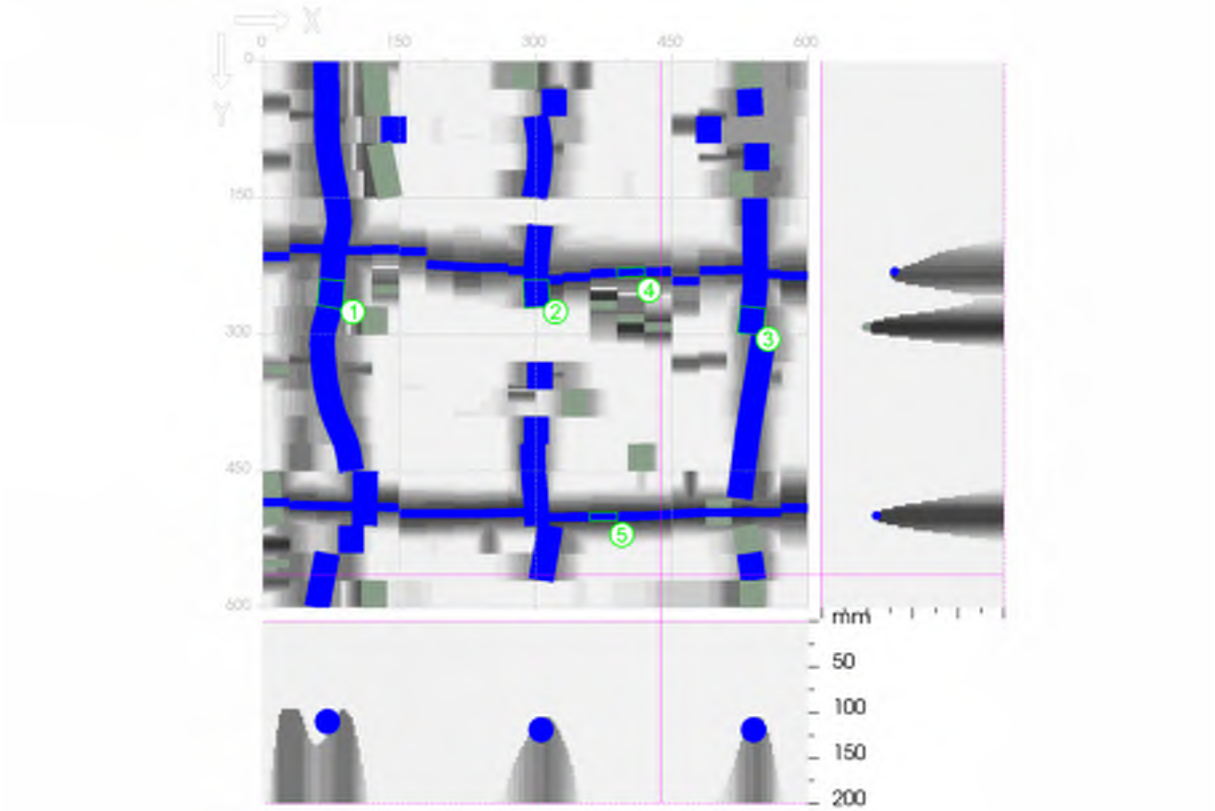
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 186 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	118 mm	255 mm	97 mm	28 mm	Vertical	High
2.	315 mm	255 mm	87 mm	28 mm	Vertical	High
3.	531 mm	255 mm	81 mm	28 mm	Vertical	High
4.	405 mm	233 mm	57 mm	10 mm	Horizontal	High
5.	405 mm	518 mm	69 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	186 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-07-13 12:35:04
Comment:	-



x: 438 mm	y: 564 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

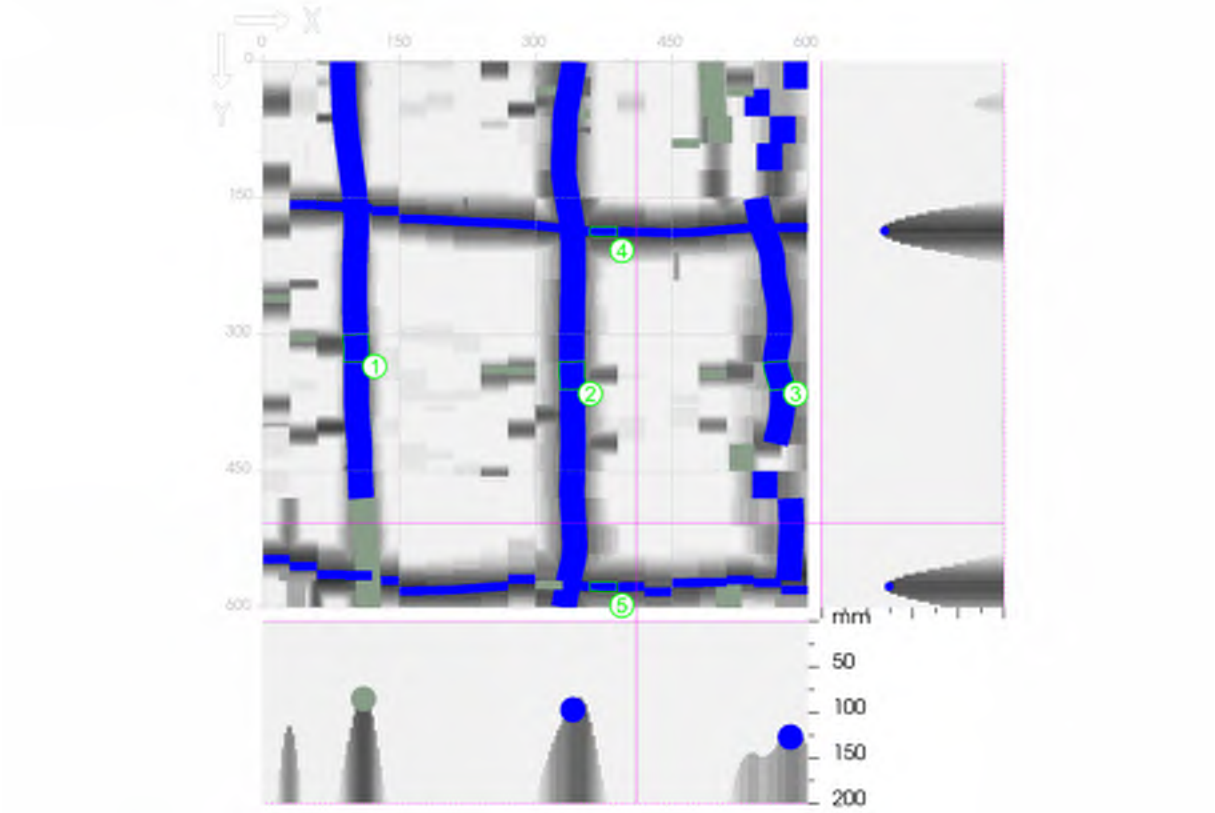
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 186 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	79 mm	255 mm	95 mm	28 mm	Vertical	High
2.	302 mm	255 mm	96 mm	28 mm	Vertical	High
3.	536 mm	285 mm	99 mm	28 mm	Vertical	High
4.	405 mm	231 mm	75 mm	10 mm	Horizontal	High
5.	375 mm	500 mm	56 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	187 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-07-13 12:39:08
Comment:	-



x: 411 mm	y: 507 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

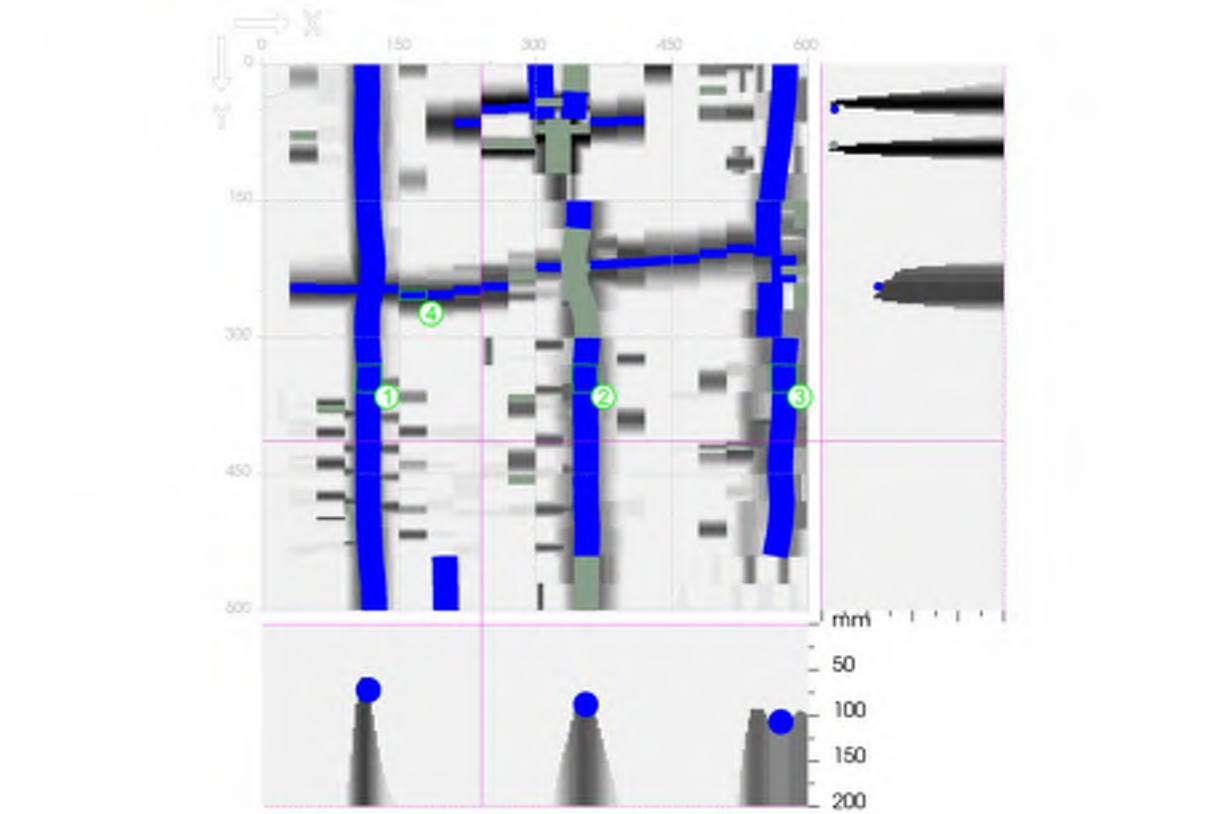
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 187 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	103 mm	315 mm	71 mm	28 mm	Vertical	High
2.	340 mm	345 mm	83 mm	28 mm	Vertical	High
3.	566 mm	345 mm	100 mm	28 mm	Vertical	High
4.	375 mm	188 mm	65 mm	10 mm	Horizontal	High
5.	375 mm	577 mm	67 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	187 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-07-13 12:40:34
Comment:	-



x: 240 mm	y: 414 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

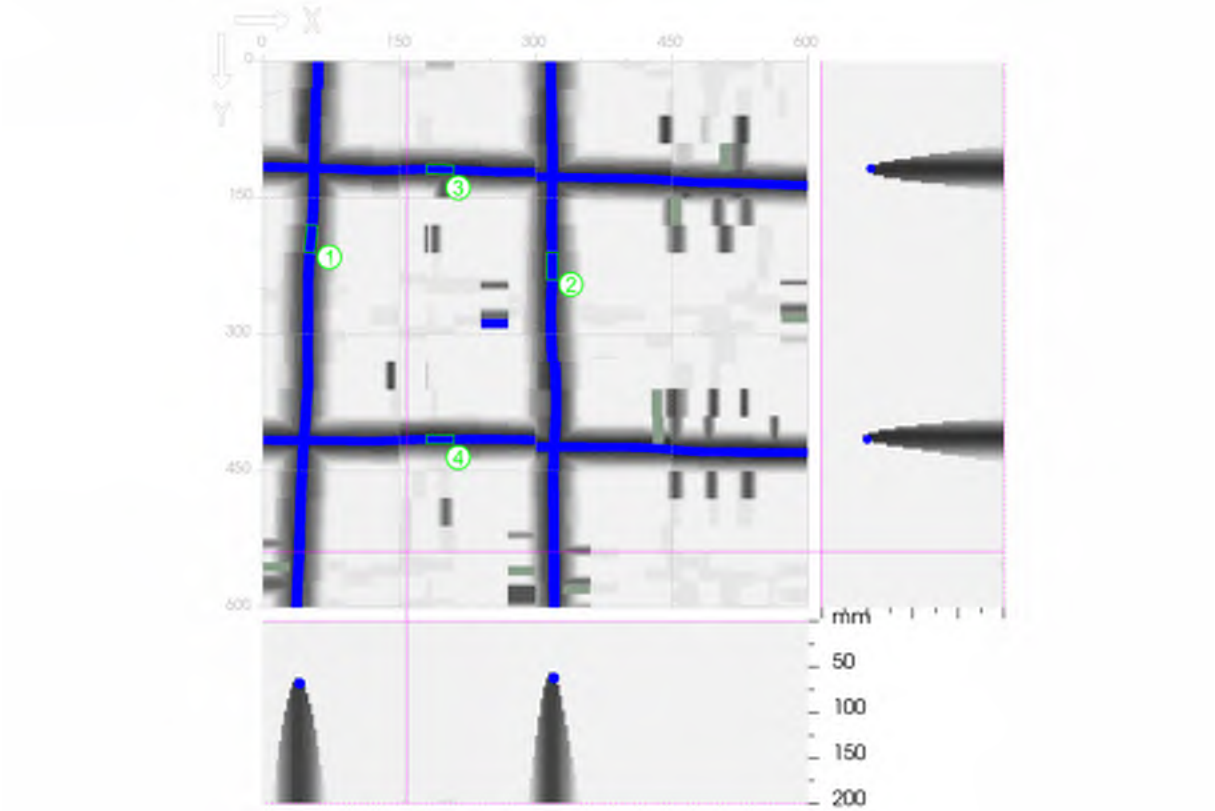
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 187 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	117 mm	345 mm	58 mm	28 mm	Vertical	High
2.	355 mm	345 mm	74 mm	28 mm	Vertical	High
3.	571 mm	345 mm	92 mm	28 mm	Vertical	High
4.	165 mm	254 mm	41 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	191.fscan
Serial number:	227190008
Date / Time:	2021-07-13 12:24:28
Comment:	-



x: 158 mm	y: 539 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

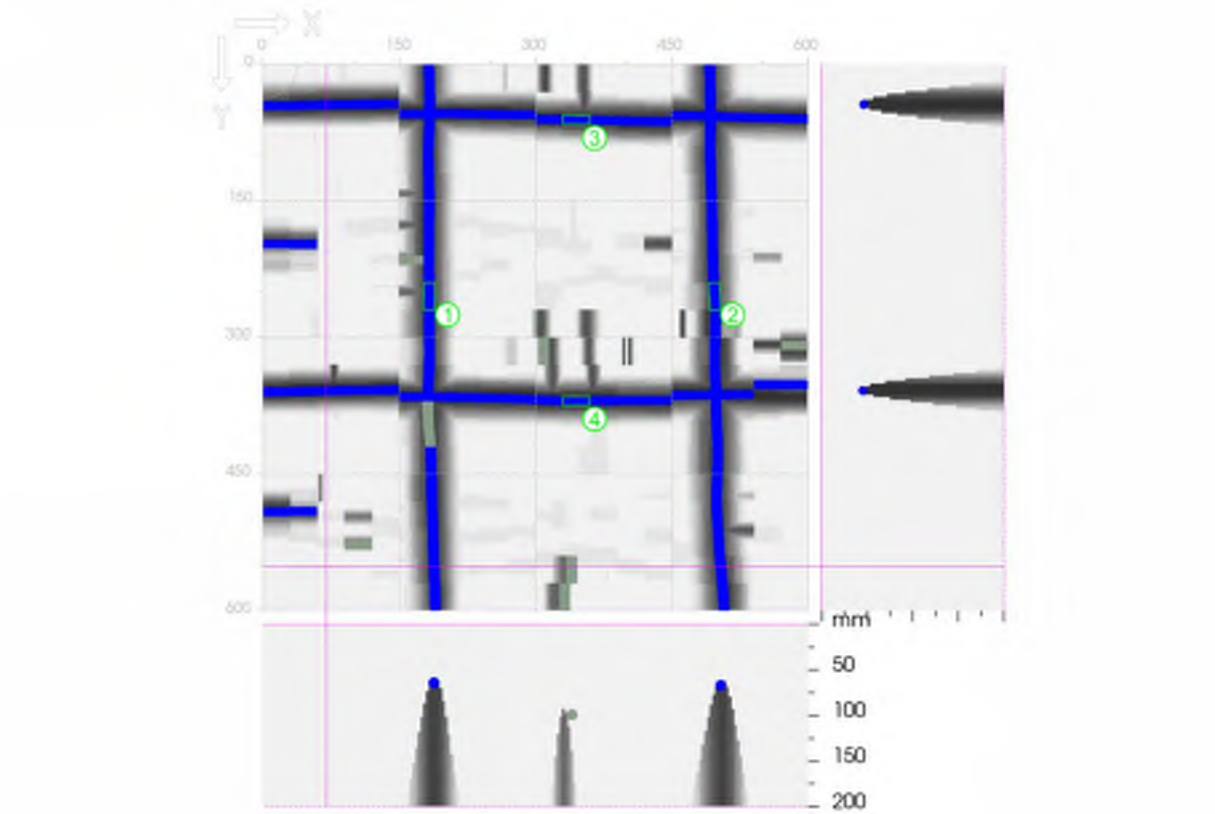
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 191	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	12 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	53 mm	195 mm	61 mm	12 mm	Vertical	High
2.	319 mm	225 mm	61 mm	12 mm	Vertical	High
3.	195 mm	119 mm	48 mm	10 mm	Horizontal	High
4.	195 mm	415 mm	45 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	192.fscan
Serial number:	227190008
Date / Time:	2021-07-13 12:20:50
Comment:	-



x: 70 mm	y: 551 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

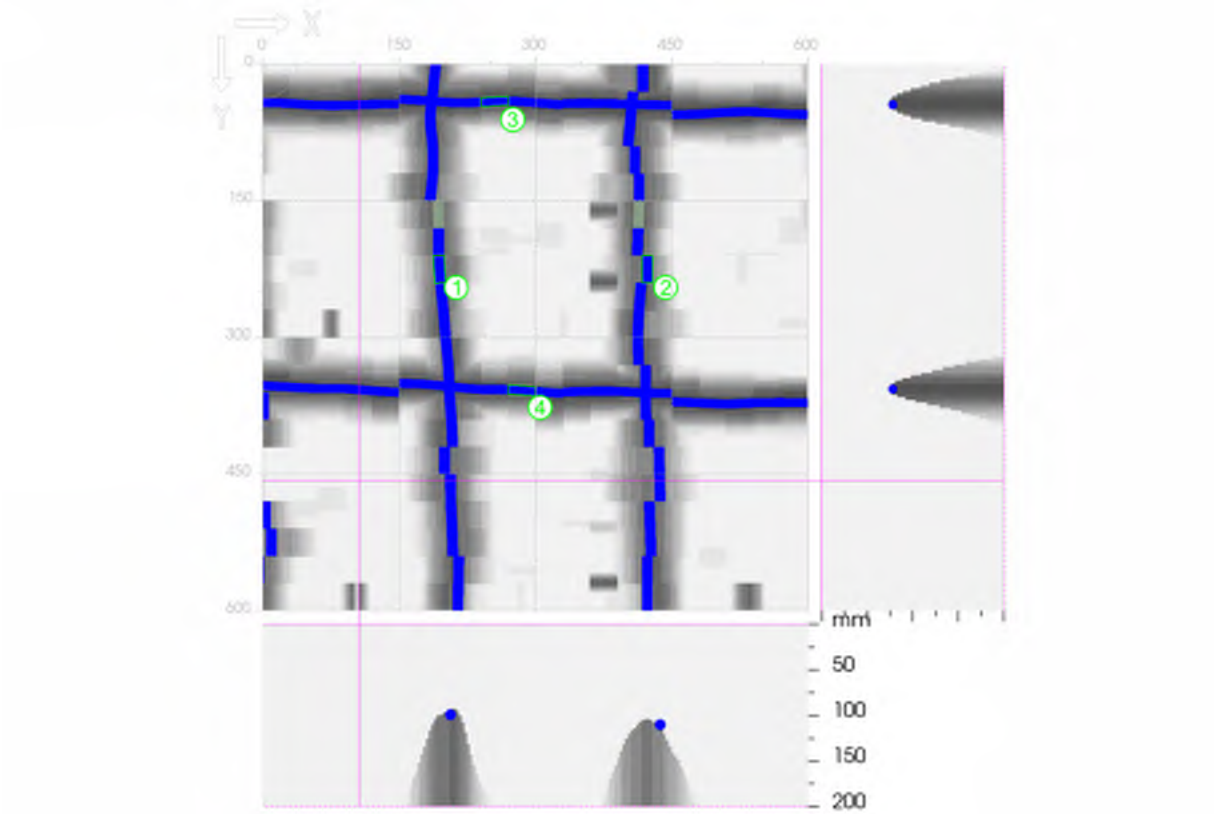
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 192	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	12 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	183 mm	255 mm	57 mm	12 mm	Vertical	High
2.	497 mm	255 mm	61 mm	12 mm	Vertical	High
3.	345 mm	61 mm	45 mm	10 mm	Horizontal	High
4.	345 mm	370 mm	46 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	193.fscan
Serial number:	227190008
Date / Time:	2021-07-13 12:17:36
Comment:	-



x: 106 mm	y: 457 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

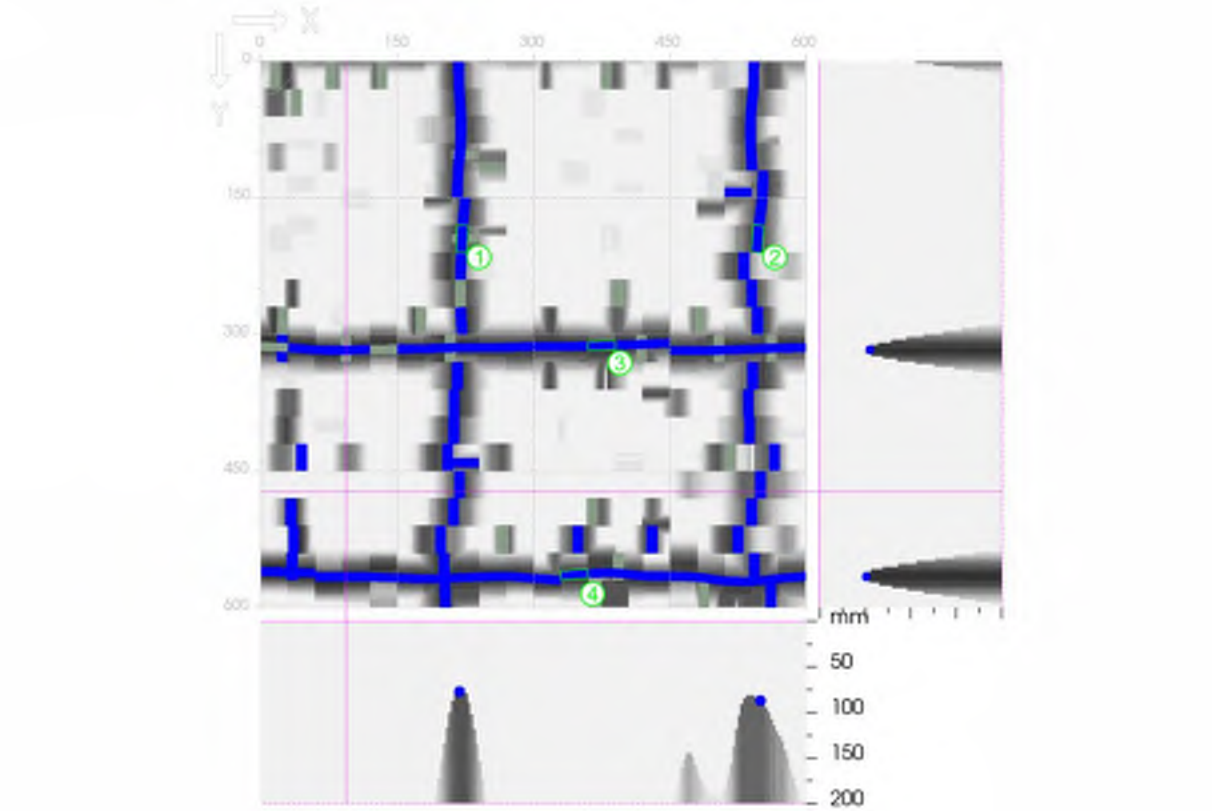
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 193	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	12 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	193 mm	225 mm	94 mm	12 mm	Vertical	High
2.	423 mm	225 mm	98 mm	12 mm	Vertical	High
3.	255 mm	41 mm	72 mm	10 mm	Horizontal	High
4.	285 mm	357 mm	75 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	194.fscan
Serial number:	227190008
Date / Time:	2021-07-13 12:13:56
Comment:	-



x: 94 mm	y: 472 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

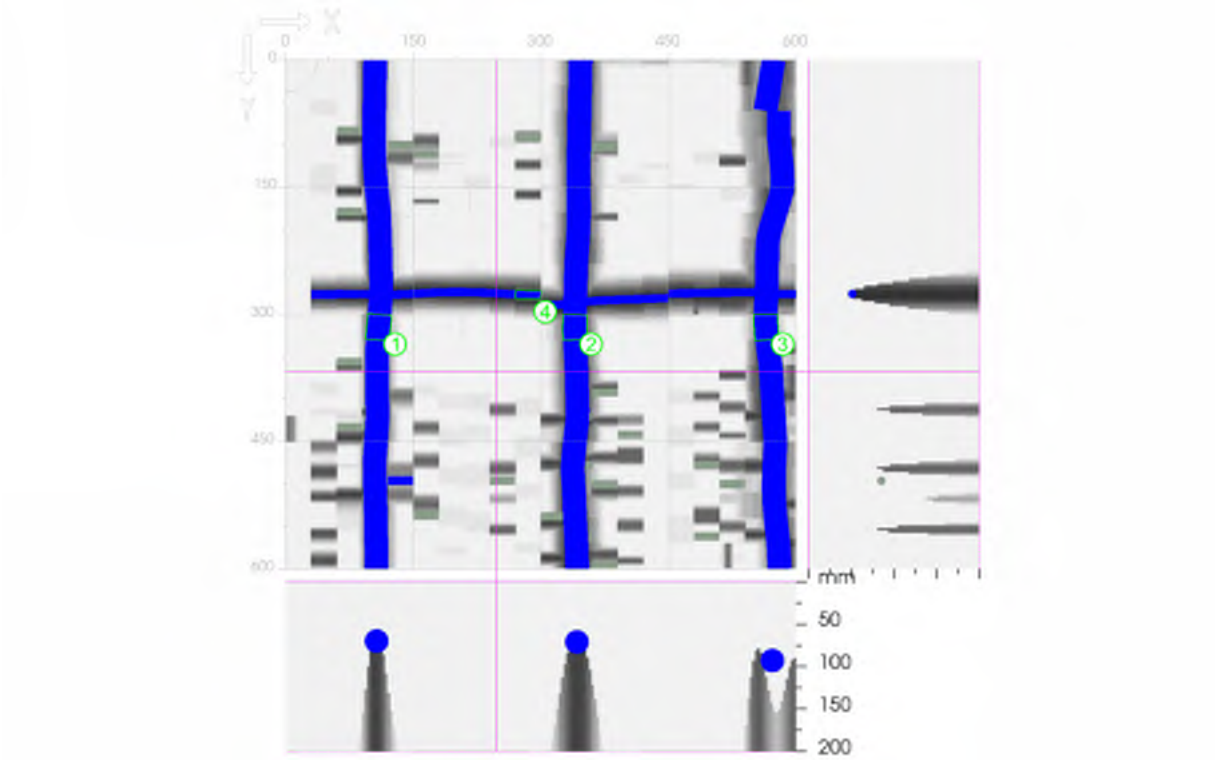
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 194	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	12 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	220 mm	195 mm	65 mm	12 mm	Vertical	High
2.	545 mm	195 mm	71 mm	12 mm	Vertical	High
3.	375 mm	311 mm	55 mm	10 mm	Horizontal	High
4.	345 mm	565 mm	54 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	195 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-07-13 12:02:24
Comment:	-



x: 248 mm	y: 368 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

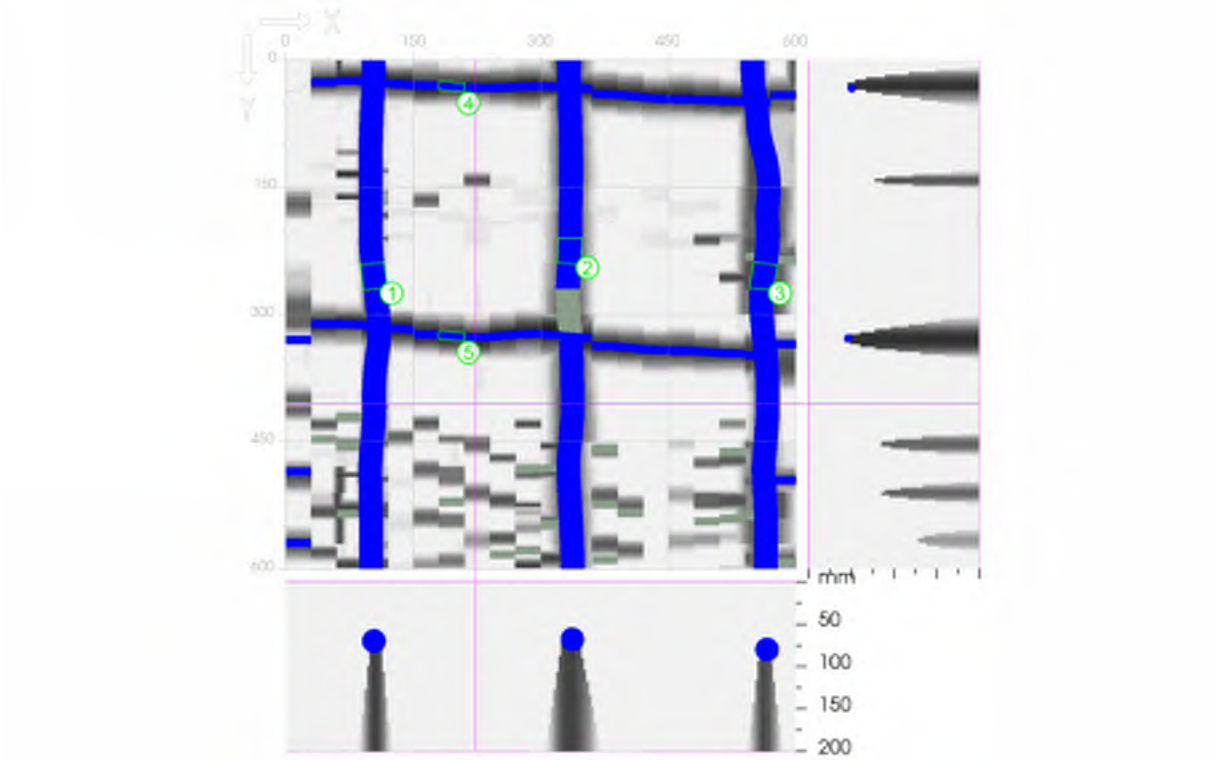
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 195 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	109 mm	315 mm	56 mm	28 mm	Vertical	High
2.	339 mm	315 mm	56 mm	28 mm	Vertical	High
3.	564 mm	315 mm	80 mm	28 mm	Vertical	High
4.	285 mm	277 mm	44 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	195 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-07-13 12:04:32
Comment:	-



x: 223 mm	y: 405 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

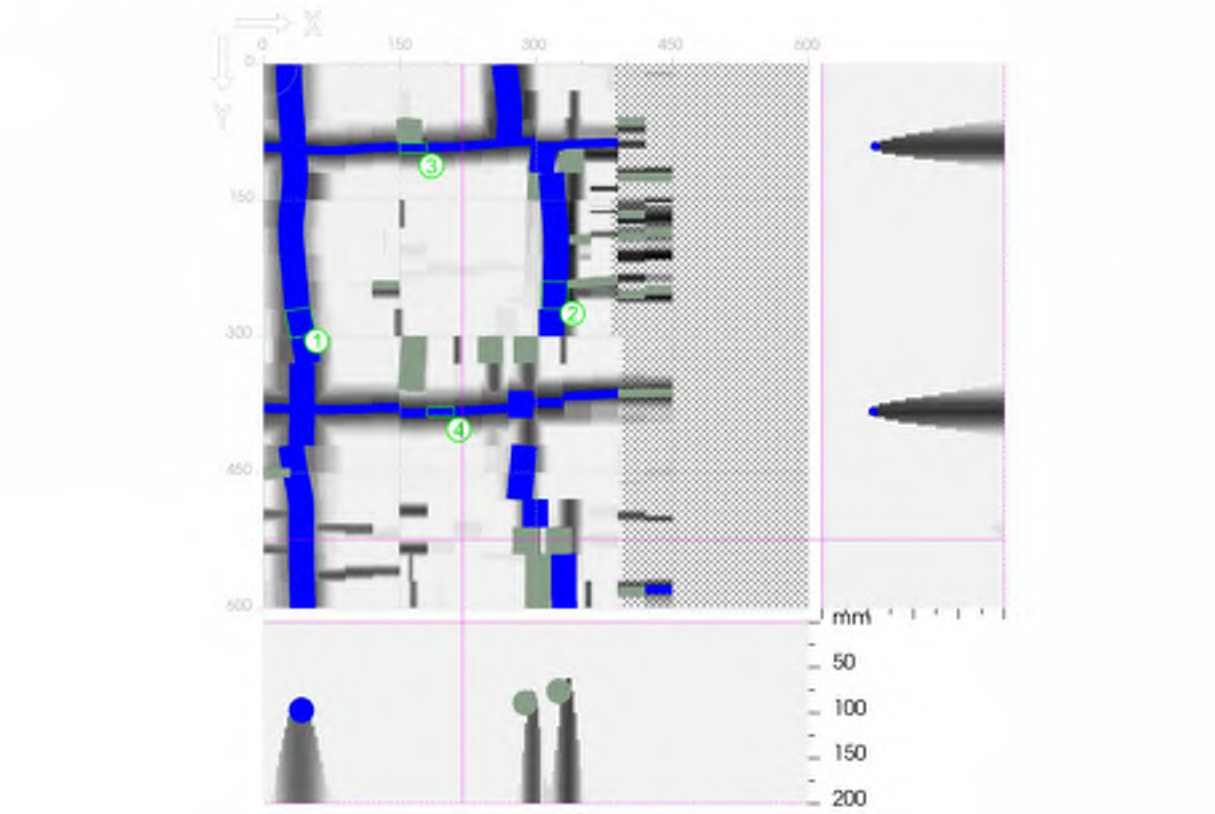
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 195 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	104 mm	255 mm	52 mm	28 mm	Vertical	High
2.	335 mm	225 mm	56 mm	28 mm	Vertical	High
3.	561 mm	255 mm	73 mm	28 mm	Vertical	High
4.	195 mm	31 mm	44 mm	10 mm	Horizontal	High
5.	195 mm	325 mm	41 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	196 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-07-13 12:53:11
Comment:	-



x: 219 mm	y: 523 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

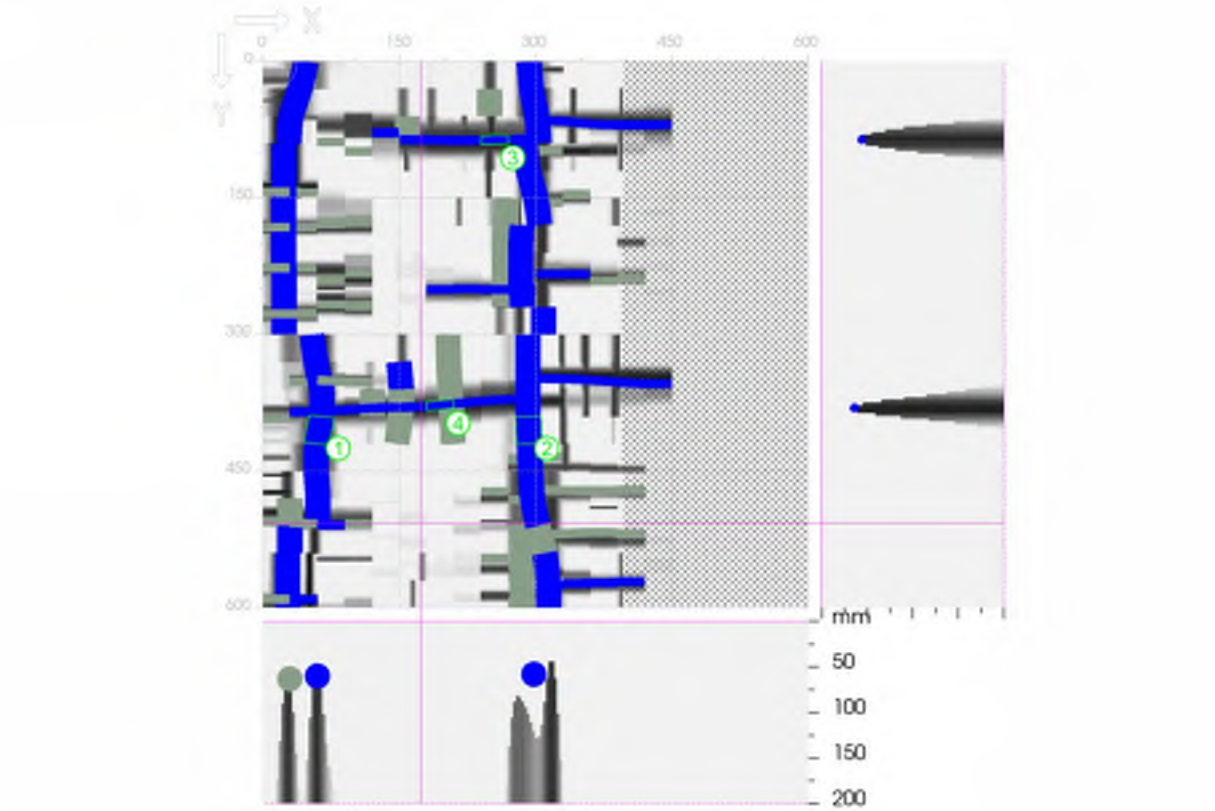
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 196 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	39 mm	285 mm	72 mm	28 mm	Vertical	High
2.	320 mm	255 mm	39 mm	28 mm	Vertical	High
3.	165 mm	92 mm	44 mm	10 mm	Horizontal	High
4.	195 mm	383 mm	54 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	196 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-07-13 12:50:17
Comment:	-



x: 174 mm	y: 507 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

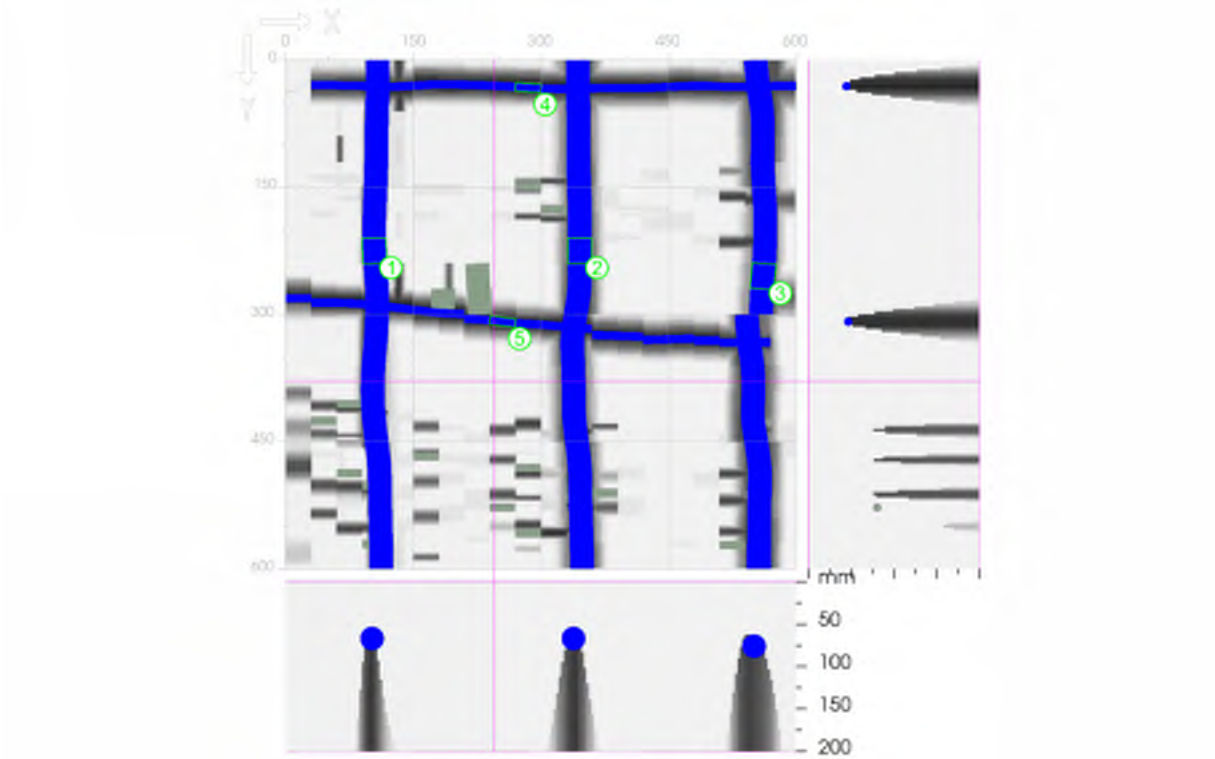
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 196 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	63 mm	405 mm	44 mm	28 mm	Vertical	High
2.	292 mm	405 mm	43 mm	28 mm	Vertical	High
3.	255 mm	86 mm	36 mm	10 mm	Horizontal	High
4.	195 mm	377 mm	33 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	199 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-07-12 18:30:36
Comment:	-



x: 245 mm	y: 379 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

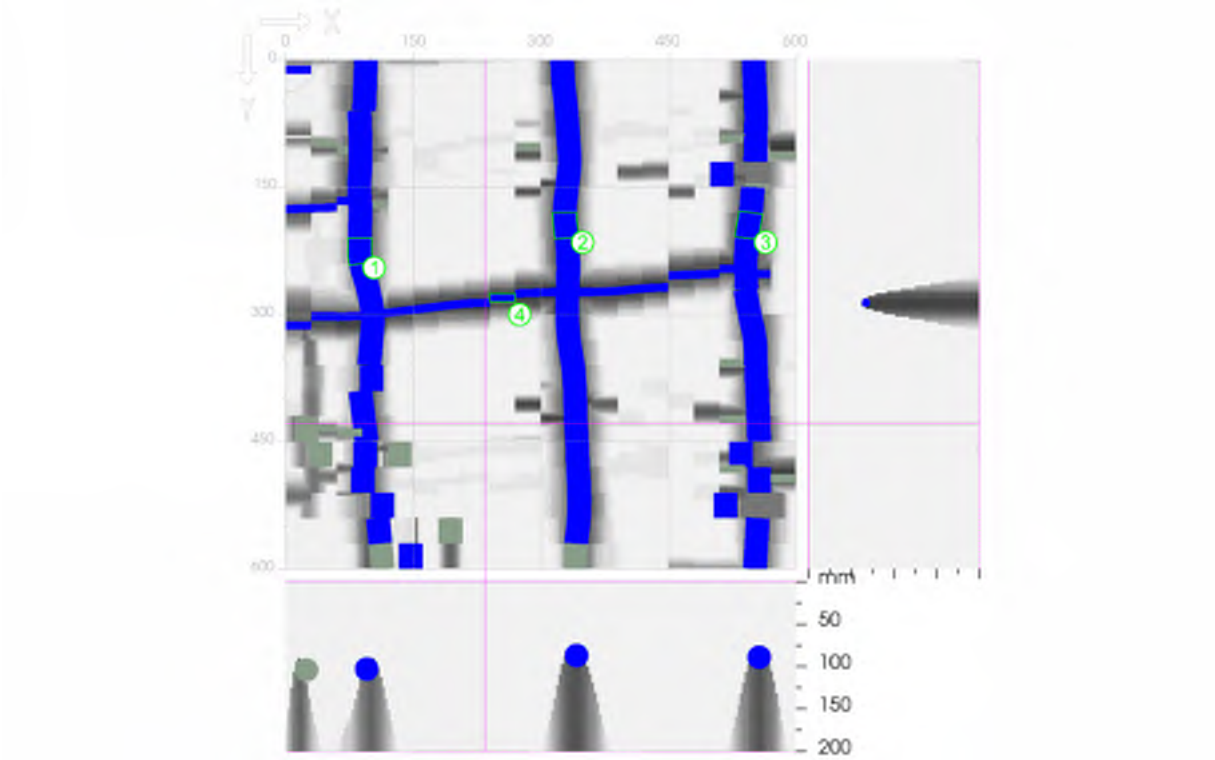
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 199 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	104 mm	225 mm	54 mm	28 mm	Vertical	High
2.	346 mm	225 mm	53 mm	28 mm	Vertical	High
3.	561 mm	255 mm	63 mm	28 mm	Vertical	High
4.	285 mm	32 mm	38 mm	10 mm	Horizontal	High
5.	255 mm	309 mm	41 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	199 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-07-12 18:28:09
Comment:	-



x: 235 mm	y: 429 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

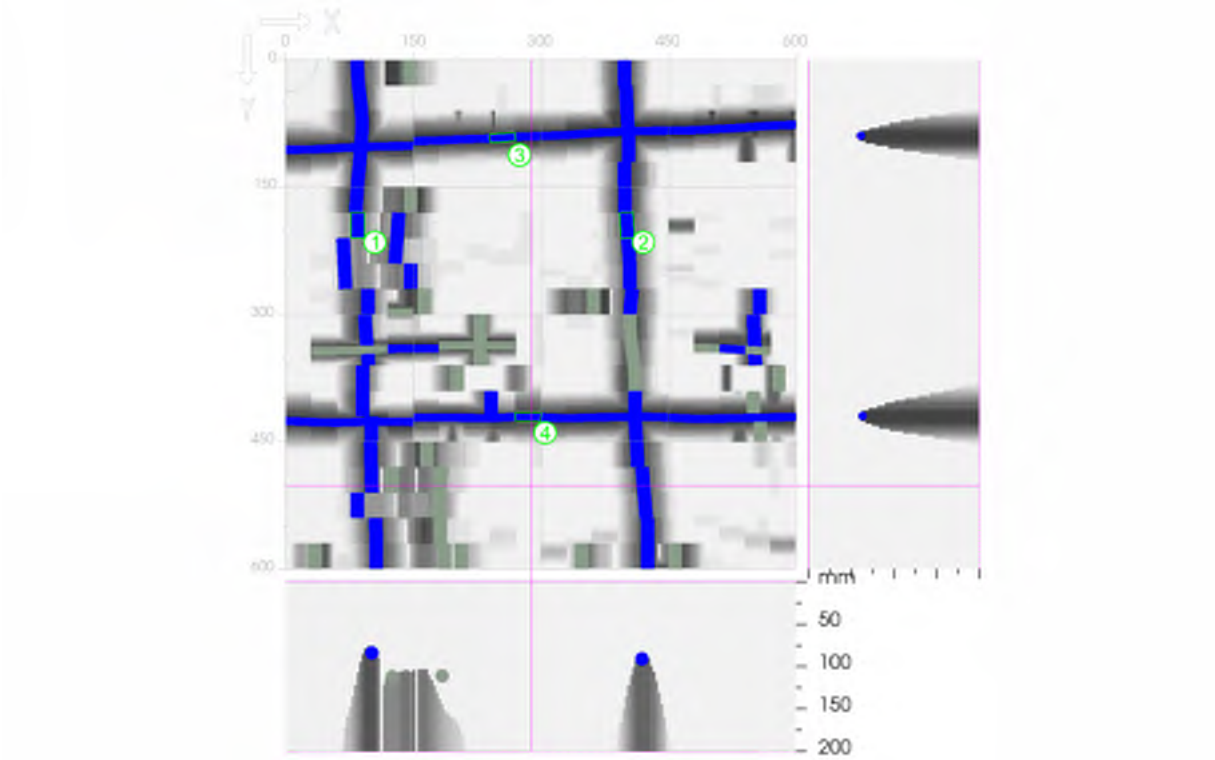
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 199 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	84 mm	225 mm	84 mm	28 mm	Vertical	High
2.	329 mm	195 mm	68 mm	28 mm	Vertical	High
3.	544 mm	195 mm	73 mm	28 mm	Vertical	High
4.	255 mm	280 mm	58 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	204.fscan
Serial number:	227190008
Date / Time:	2021-07-13 11:57:56
Comment:	-



x: 289 mm	y: 502 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

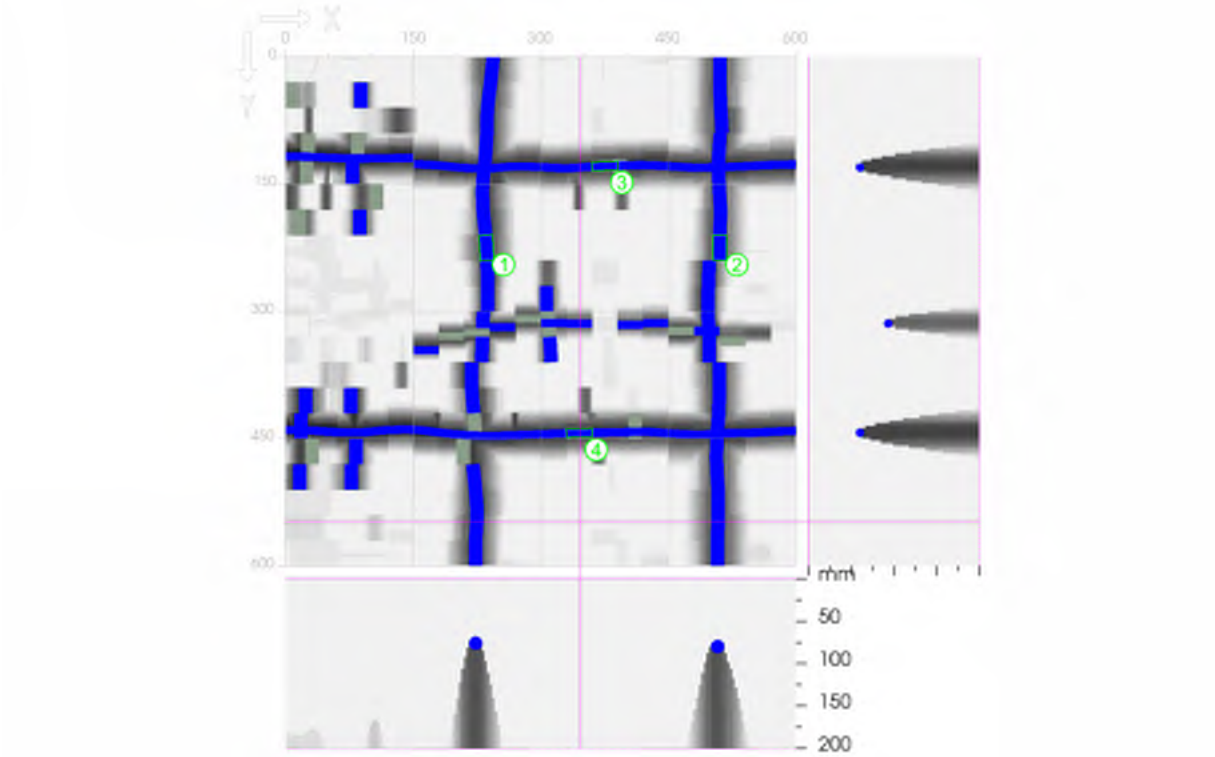
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 204	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	85 mm	195 mm	115 mm	16 mm	Vertical	High
2.	400 mm	195 mm	86 mm	16 mm	Vertical	High
3.	255 mm	92 mm	57 mm	10 mm	Horizontal	High
4.	285 mm	420 mm	58 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	205.fscan
Serial number:	227190008
Date / Time:	2021-07-13 11:52:58
Comment:	-



x: 346 mm	y: 548 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

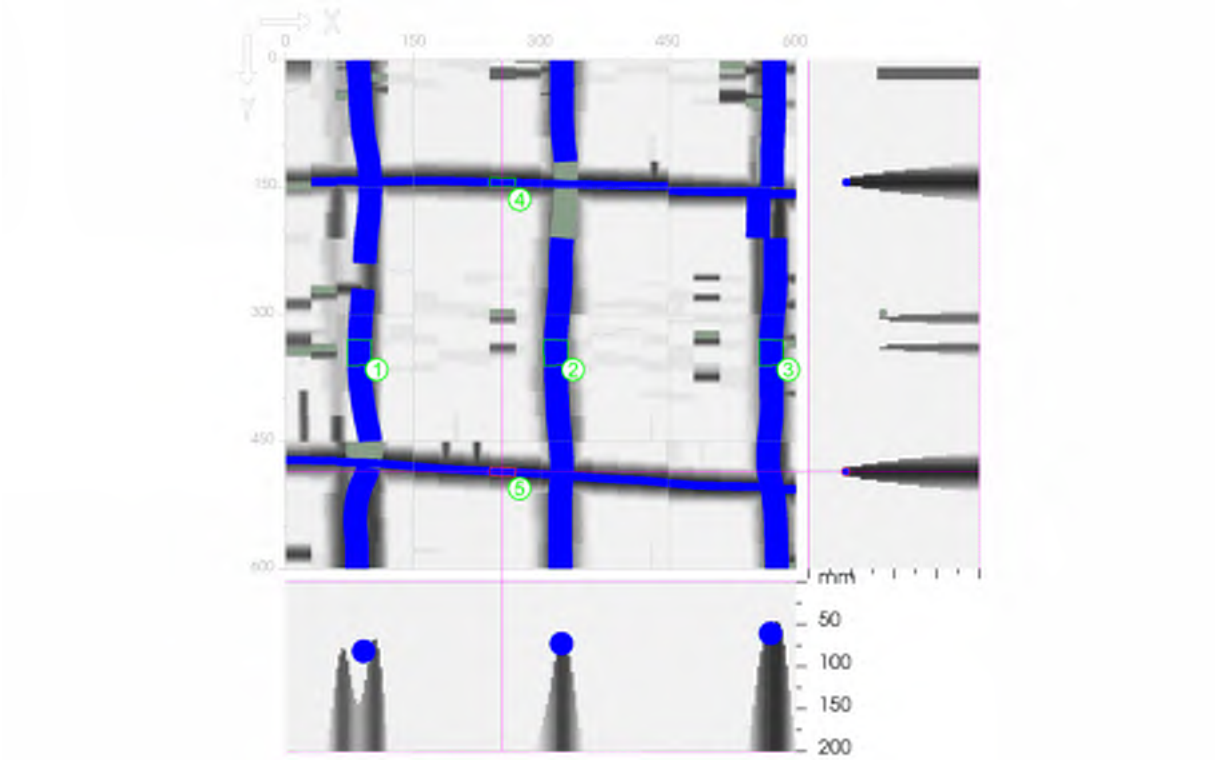
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 205	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	236 mm	225 mm	72 mm	16 mm	Vertical	High
2.	510 mm	225 mm	73 mm	16 mm	Vertical	High
3.	375 mm	128 mm	56 mm	10 mm	Horizontal	High
4.	345 mm	443 mm	55 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	207 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-07-12 18:24:18
Comment:	-



x: 255 mm	y: 485 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

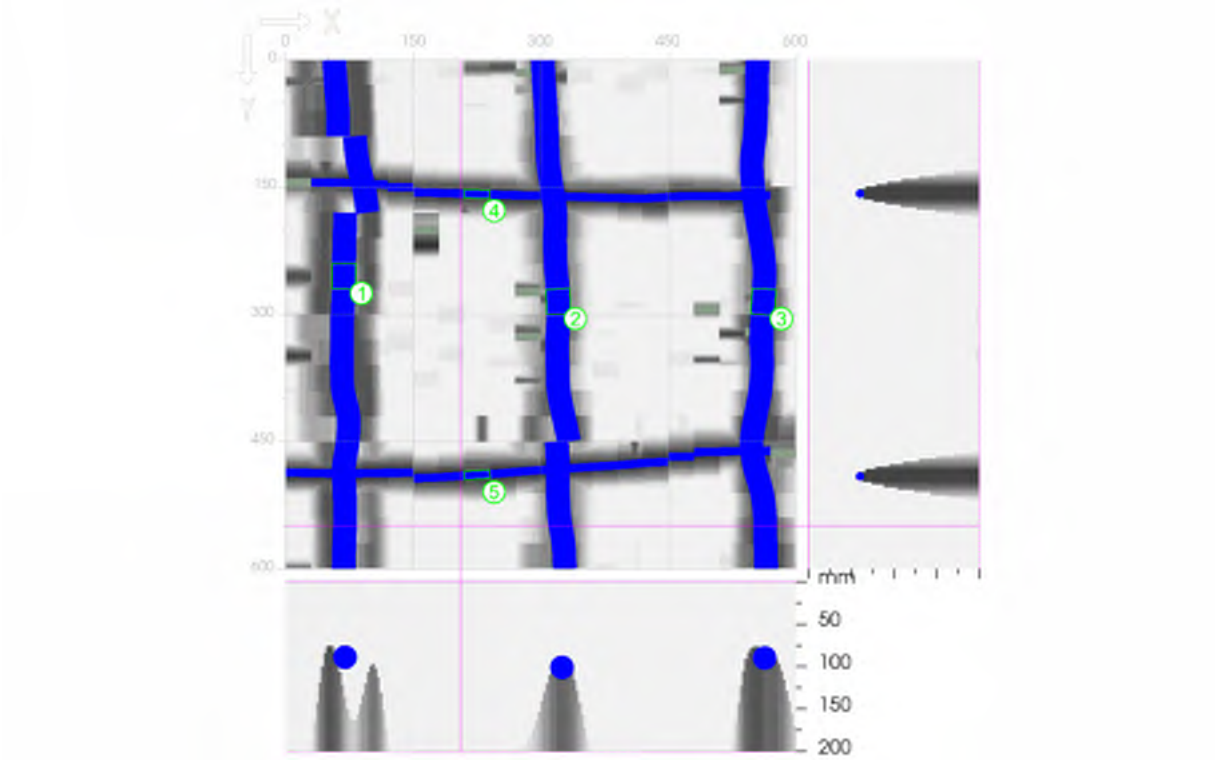
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 207 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	87 mm	345 mm	64 mm	28 mm	Vertical	High
2.	318 mm	345 mm	66 mm	28 mm	Vertical	High
3.	571 mm	345 mm	50 mm	28 mm	Vertical	High
4.	255 mm	145 mm	39 mm	10 mm	Horizontal	High
5.	255 mm	485 mm	38 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	207 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-07-12 18:19:42
Comment:	-



x: 206 mm	y: 549 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

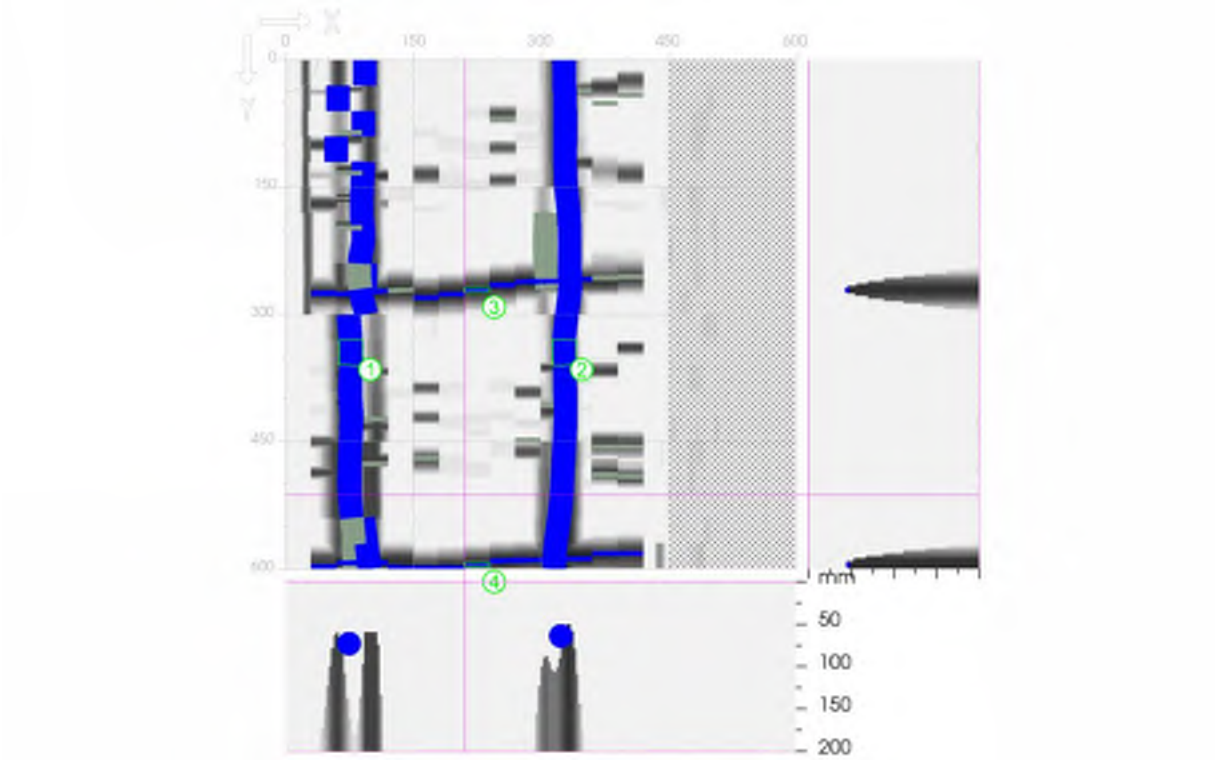
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 207 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	69 mm	255 mm	73 mm	28 mm	Vertical	High
2.	320 mm	285 mm	87 mm	28 mm	Vertical	High
3.	563 mm	285 mm	70 mm	28 mm	Vertical	High
4.	225 mm	158 mm	56 mm	10 mm	Horizontal	High
5.	225 mm	489 mm	55 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	208 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-07-12 17:59:03
Comment:	-



x: 211 mm	y: 512 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

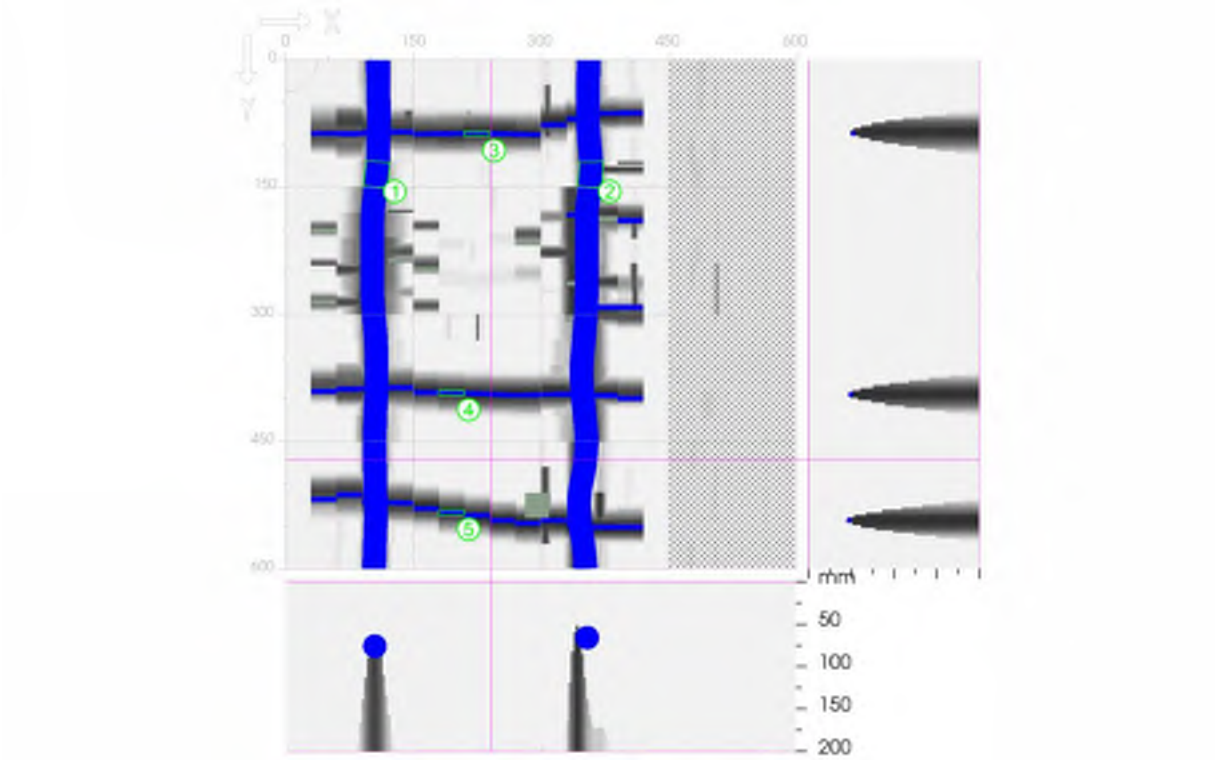
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 208 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	79 mm	345 mm	58 mm	28 mm	Vertical	High
2.	328 mm	345 mm	48 mm	28 mm	Vertical	High
3.	225 mm	271 mm	42 mm	6 mm	Horizontal	High
4.	225 mm	595 mm	43 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	208 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-07-12 17:55:48
Comment:	-



x: 242 mm	y: 472 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

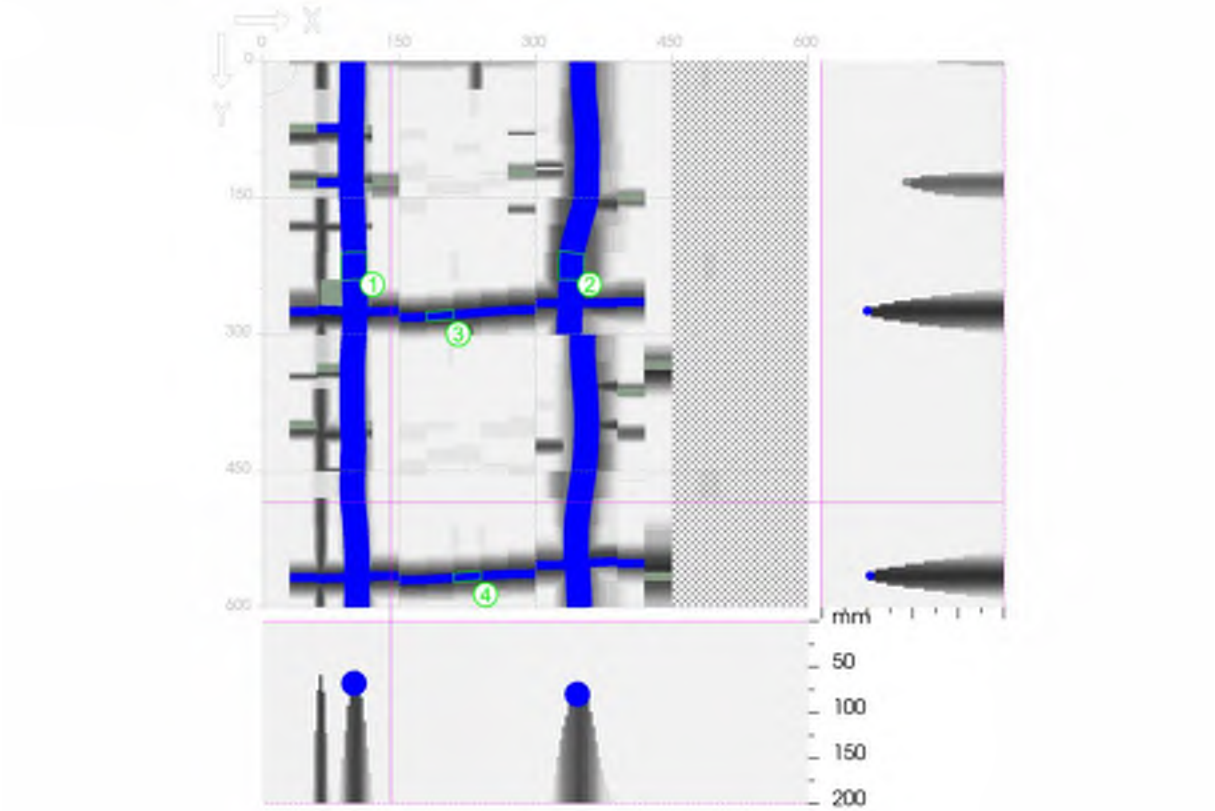
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 208 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	108 mm	135 mm	69 mm	28 mm	Vertical	High
2.	361 mm	135 mm	56 mm	28 mm	Vertical	High
3.	225 mm	87 mm	49 mm	6 mm	Horizontal	High
4.	195 mm	392 mm	49 mm	6 mm	Horizontal	High
5.	195 mm	533 mm	48 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	209 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-07-12 18:07:10
Comment:	-



x: 141 mm	y: 485 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

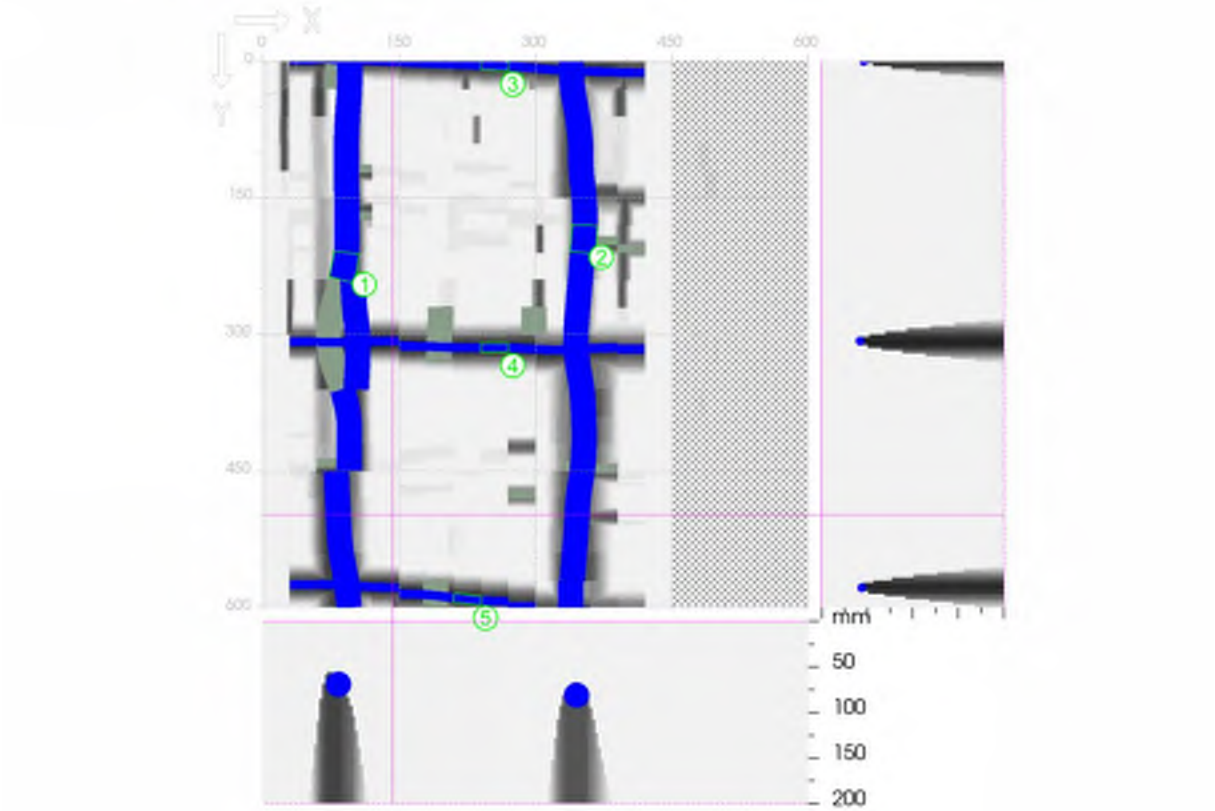
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 209 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	101 mm	225 mm	53 mm	28 mm	Vertical	High
2.	339 mm	225 mm	64 mm	28 mm	Vertical	High
3.	195 mm	279 mm	45 mm	10 mm	Horizontal	High
4.	225 mm	566 mm	48 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	209 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-07-12 18:04:21
Comment:	-



x: 143 mm	y: 498 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

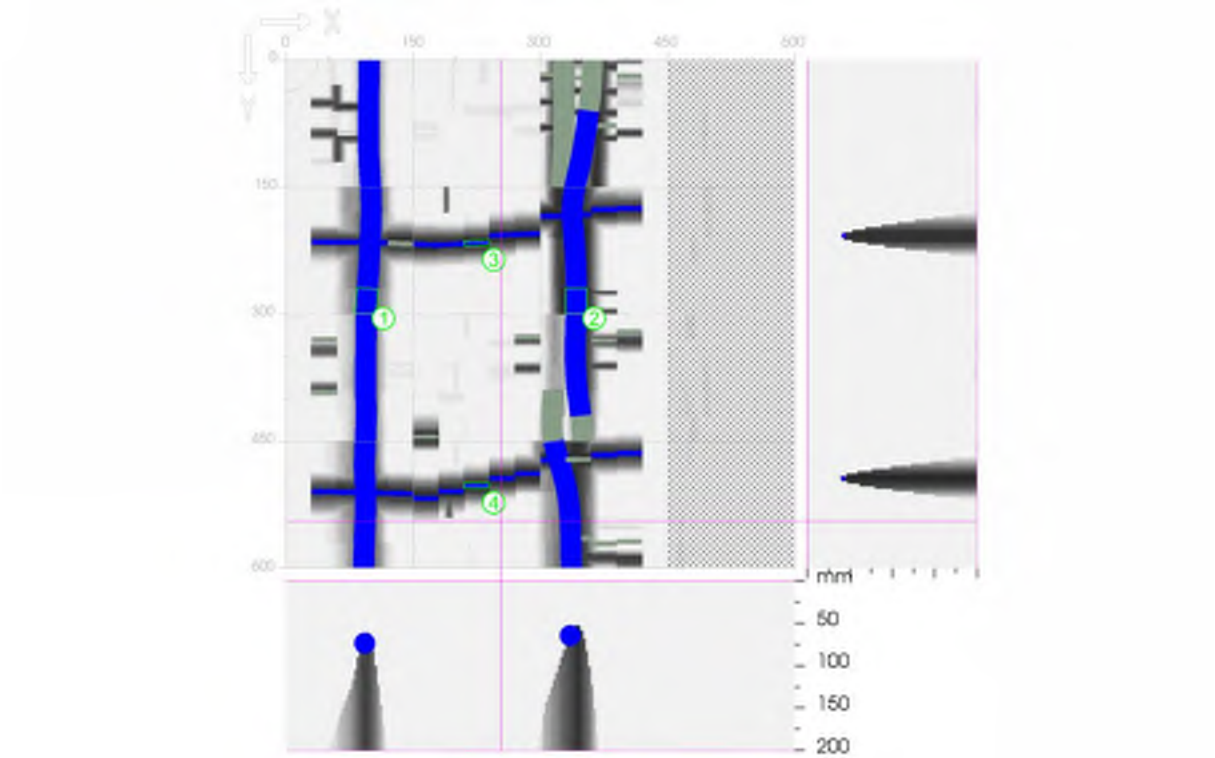
Project name:	CIS - L2	Customer:	CIS Tower
Location:	Level 2 Loc 209 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	92 mm	225 mm	54 mm	28 mm	Vertical	High
2.	352 mm	195 mm	67 mm	28 mm	Vertical	High
3.	255 mm	5 mm	45 mm	10 mm	Horizontal	High
4.	255 mm	314 mm	45 mm	10 mm	Horizontal	High
5.	225 mm	591 mm	46 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	210 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-08-02 15:52:10
Comment:	-



x: 254 mm	y: 544 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

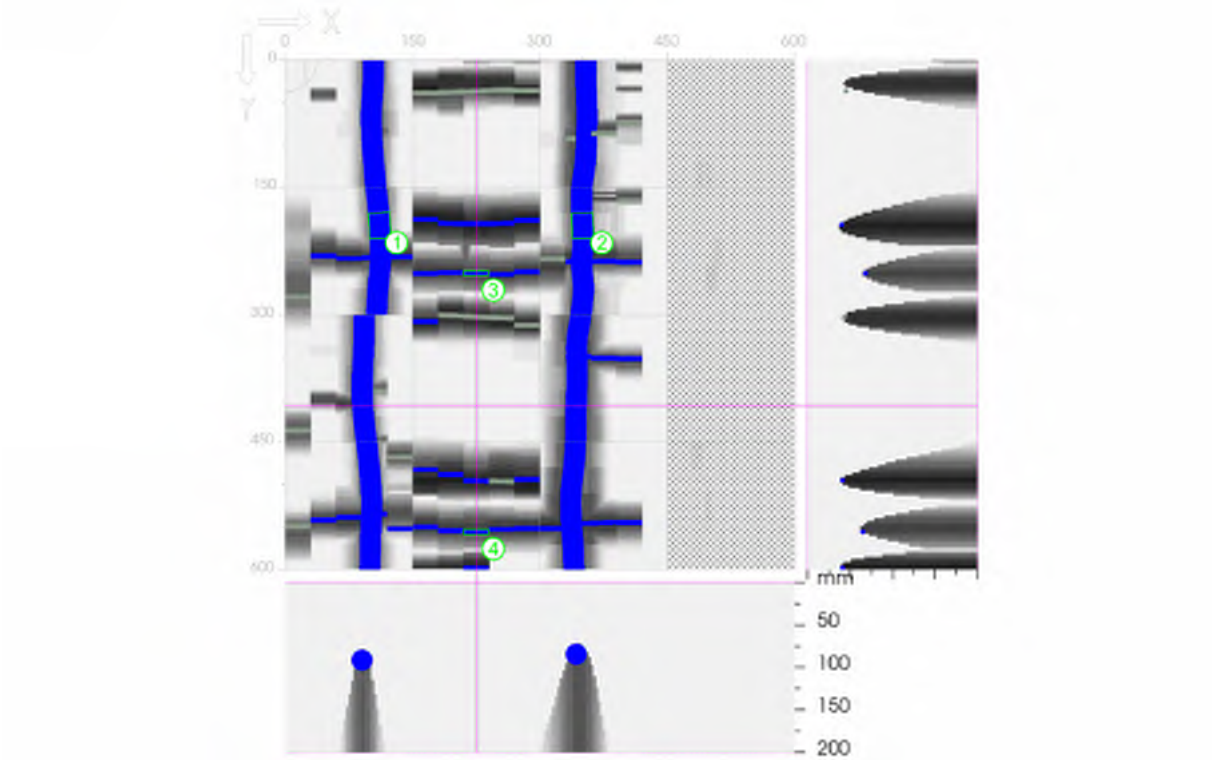
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 210 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	95 mm	285 mm	64 mm	25 mm	Vertical	High
2.	343 mm	285 mm	48 mm	25 mm	Vertical	High
3.	225 mm	216 mm	43 mm	6 mm	Horizontal	High
4.	225 mm	503 mm	41 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	210 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-08-02 15:54:44
Comment:	-



x: 225 mm	y: 407 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

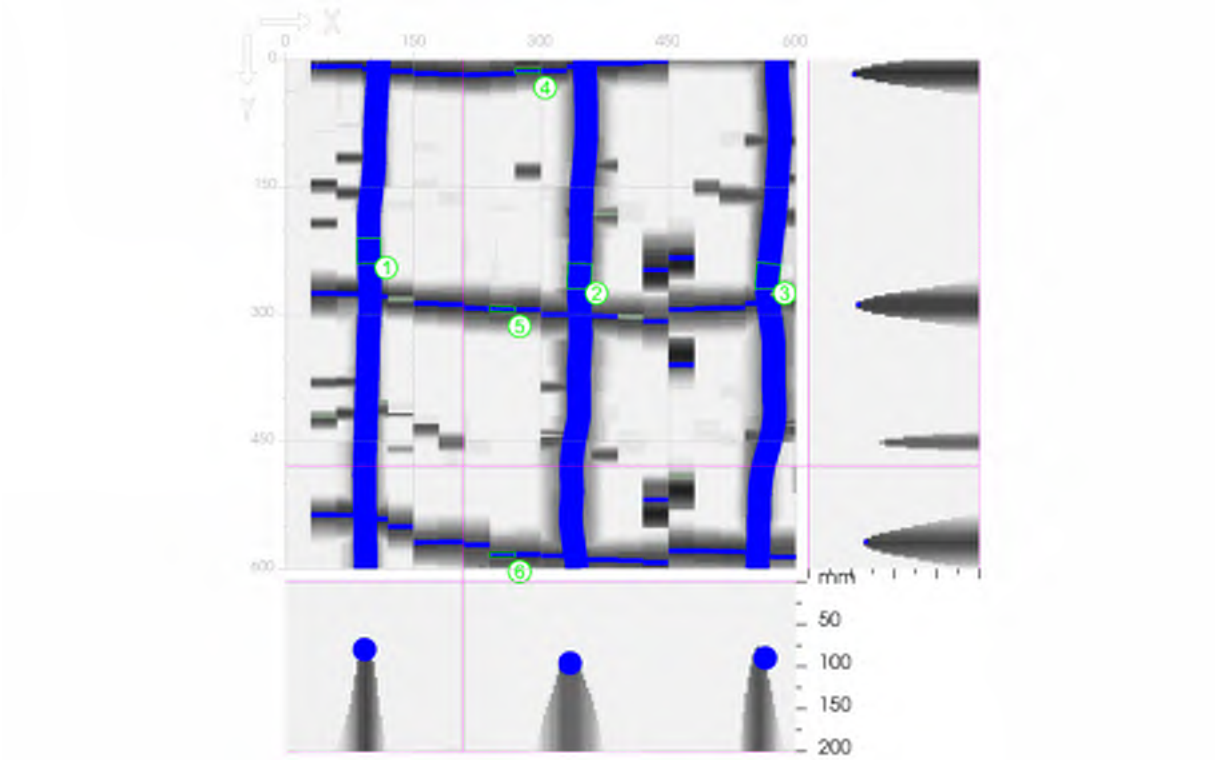
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 210 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	111 mm	195 mm	78 mm	25 mm	Vertical	High
2.	353 mm	195 mm	71 mm	25 mm	Vertical	High
3.	225 mm	251 mm	65 mm	6 mm	Horizontal	High
4.	225 mm	555 mm	62 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	211 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-08-02 16:06:20
Comment:	-



x: 208 mm	y: 479 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

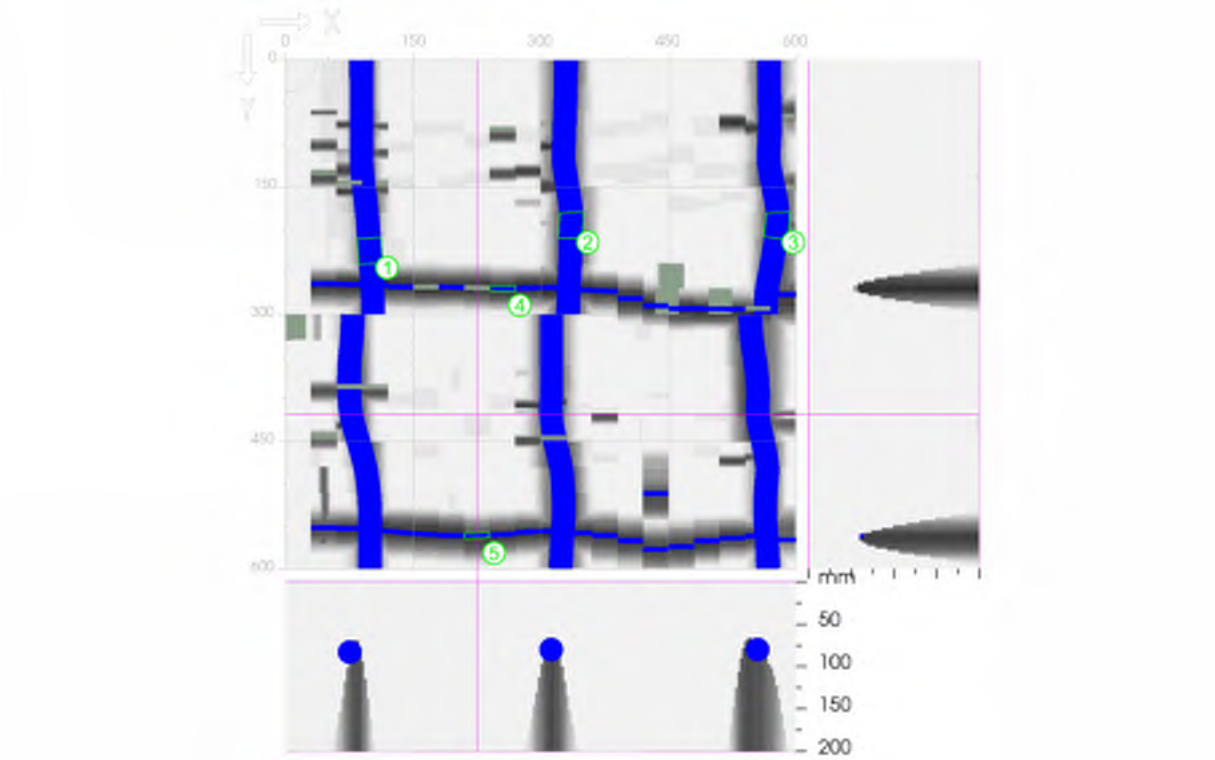
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 211 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	98 mm	225 mm	59 mm	28 mm	Vertical	High
2.	345 mm	255 mm	76 mm	28 mm	Vertical	High
3.	566 mm	255 mm	69 mm	28 mm	Vertical	High
4.	285 mm	13 mm	56 mm	6 mm	Horizontal	High
5.	255 mm	294 mm	60 mm	6 mm	Horizontal	High
6.	255 mm	583 mm	65 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	211 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-08-02 16:09:33
Comment:	-



x: 225 mm	y: 418 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

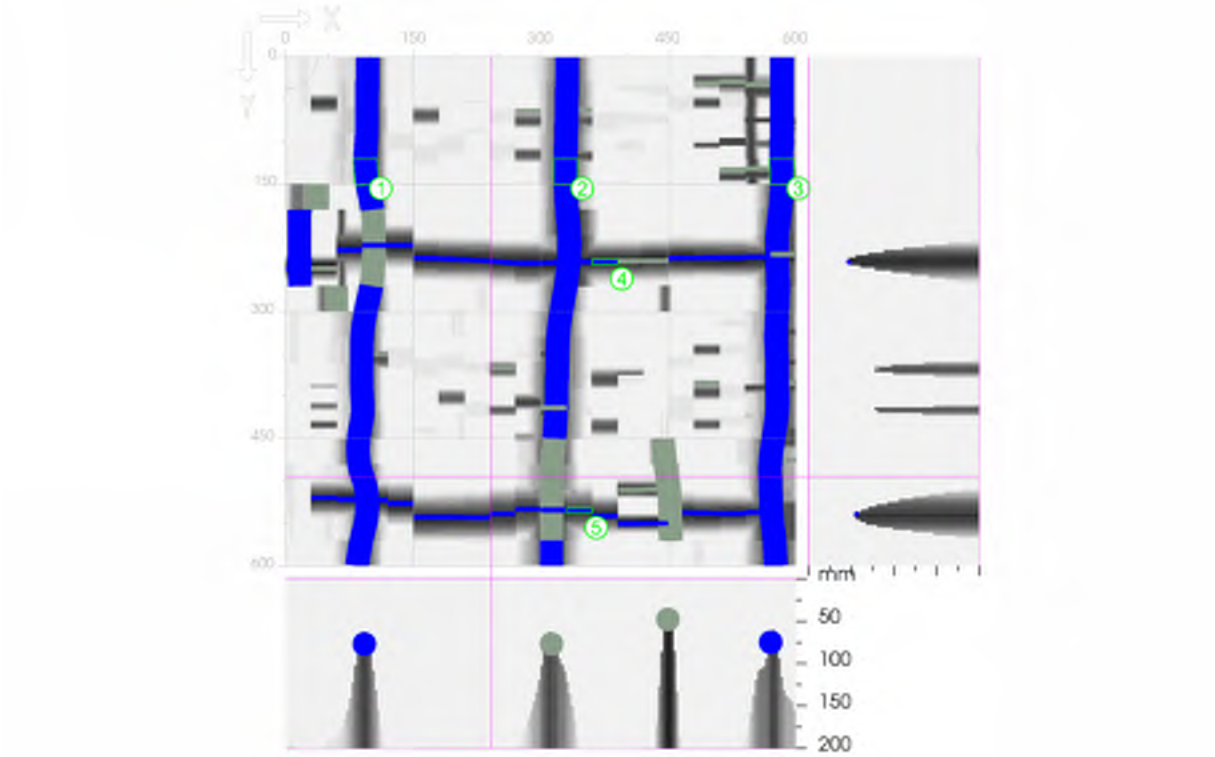
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 211 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	99 mm	225 mm	67 mm	28 mm	Vertical	High
2.	335 mm	195 mm	62 mm	28 mm	Vertical	High
3.	577 mm	195 mm	68 mm	28 mm	Vertical	High
4.	255 mm	269 mm	51 mm	6 mm	Horizontal	High
5.	225 mm	561 mm	59 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	212 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-08-02 16:23:08
Comment:	-



x: 242 mm	y: 495 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

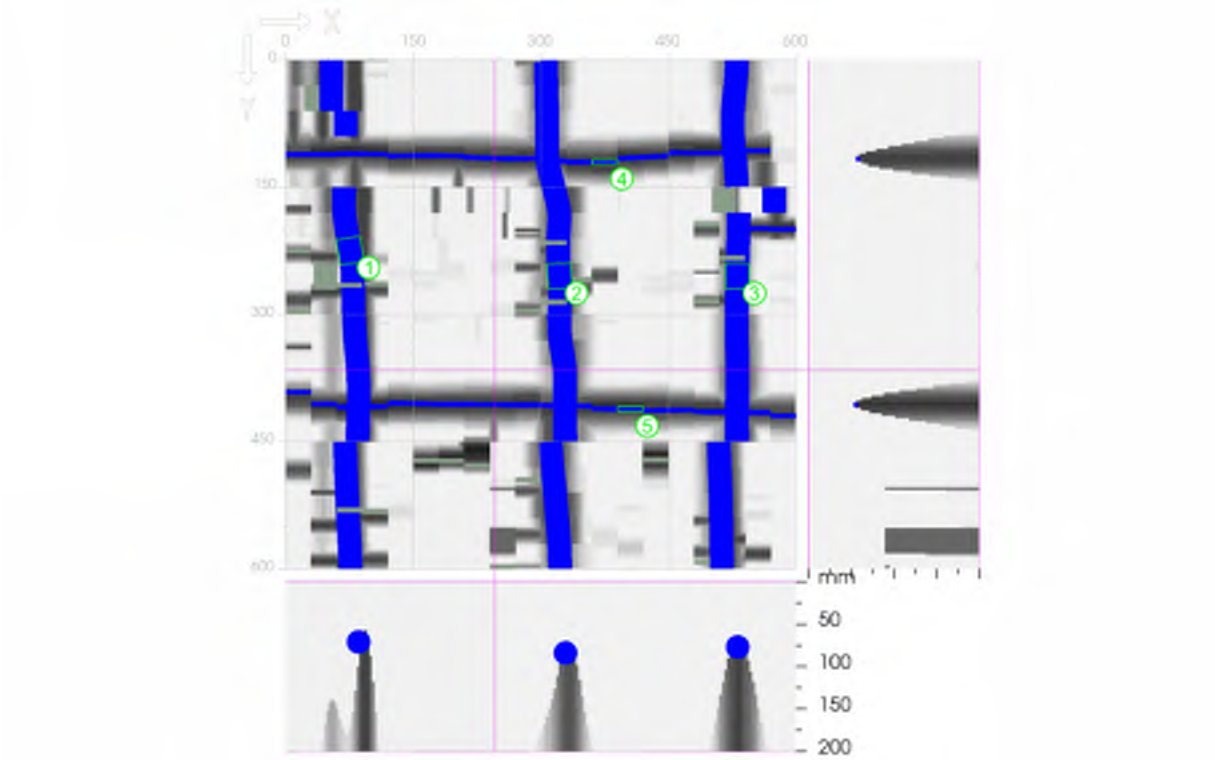
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 212 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	92 mm	135 mm	65 mm	28 mm	Vertical	High
2.	329 mm	135 mm	64 mm	28 mm	Vertical	High
3.	582 mm	135 mm	53 mm	28 mm	Vertical	High
4.	375 mm	242 mm	48 mm	6 mm	Horizontal	High
5.	345 mm	535 mm	54 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	212 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-08-02 16:20:09
Comment:	-



x: 246 mm	y: 366 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

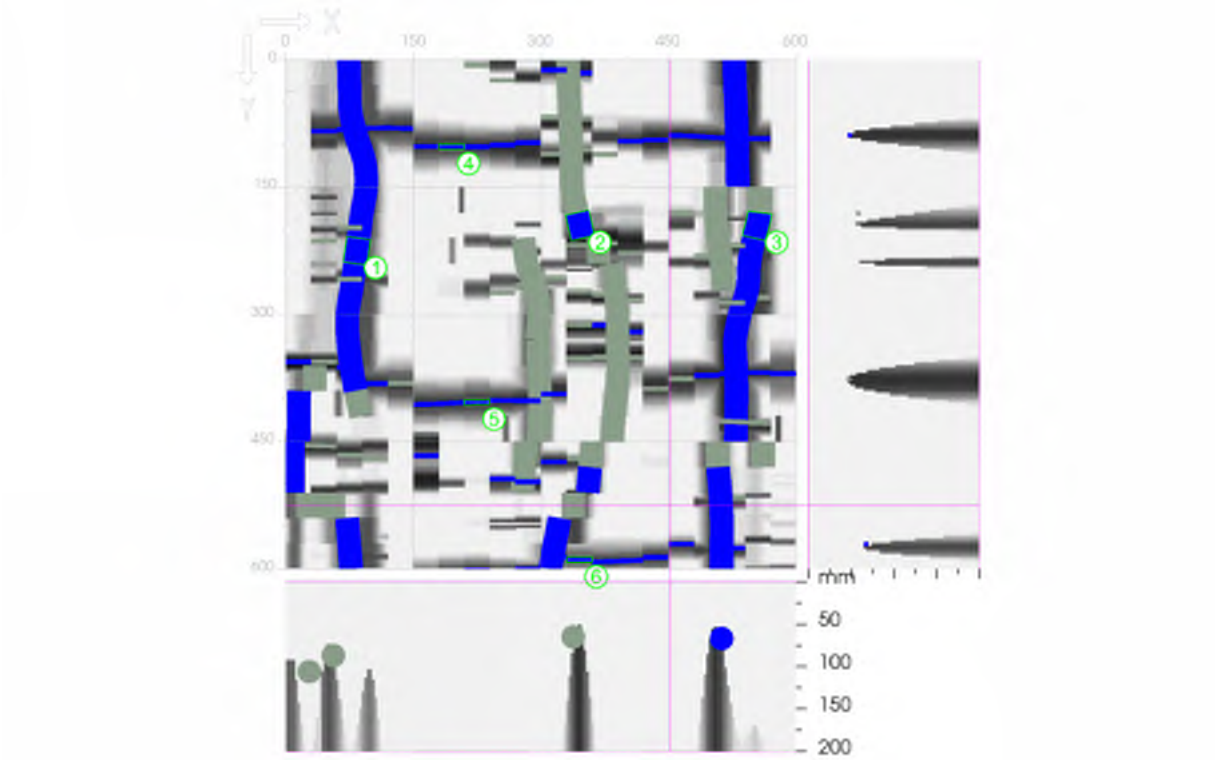
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 212 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	78 mm	225 mm	59 mm	28 mm	Vertical	High
2.	322 mm	255 mm	75 mm	28 mm	Vertical	High
3.	531 mm	255 mm	60 mm	28 mm	Vertical	High
4.	375 mm	120 mm	53 mm	6 mm	Horizontal	High
5.	405 mm	412 mm	51 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	213 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-08-02 16:31:47
Comment:	-



x: 452 mm	y: 525 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

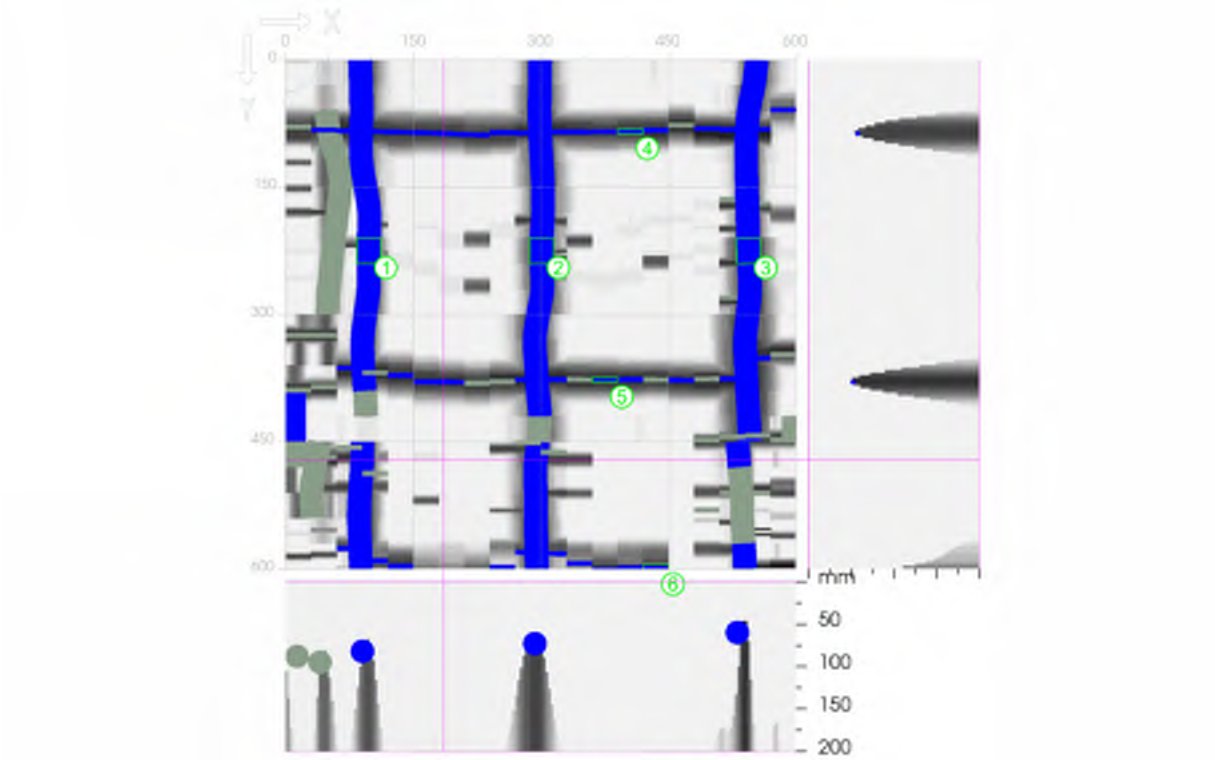
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 213 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	86 mm	225 mm	74 mm	28 mm	Vertical	High
2.	349 mm	195 mm	39 mm	28 mm	Vertical	High
3.	557 mm	195 mm	57 mm	28 mm	Vertical	High
4.	195 mm	102 mm	54 mm	6 mm	Horizontal	High
5.	225 mm	403 mm	55 mm	6 mm	Horizontal	High
6.	345 mm	589 mm	69 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	213 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-08-02 16:29:24
Comment:	-



x: 186 mm	y: 472 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

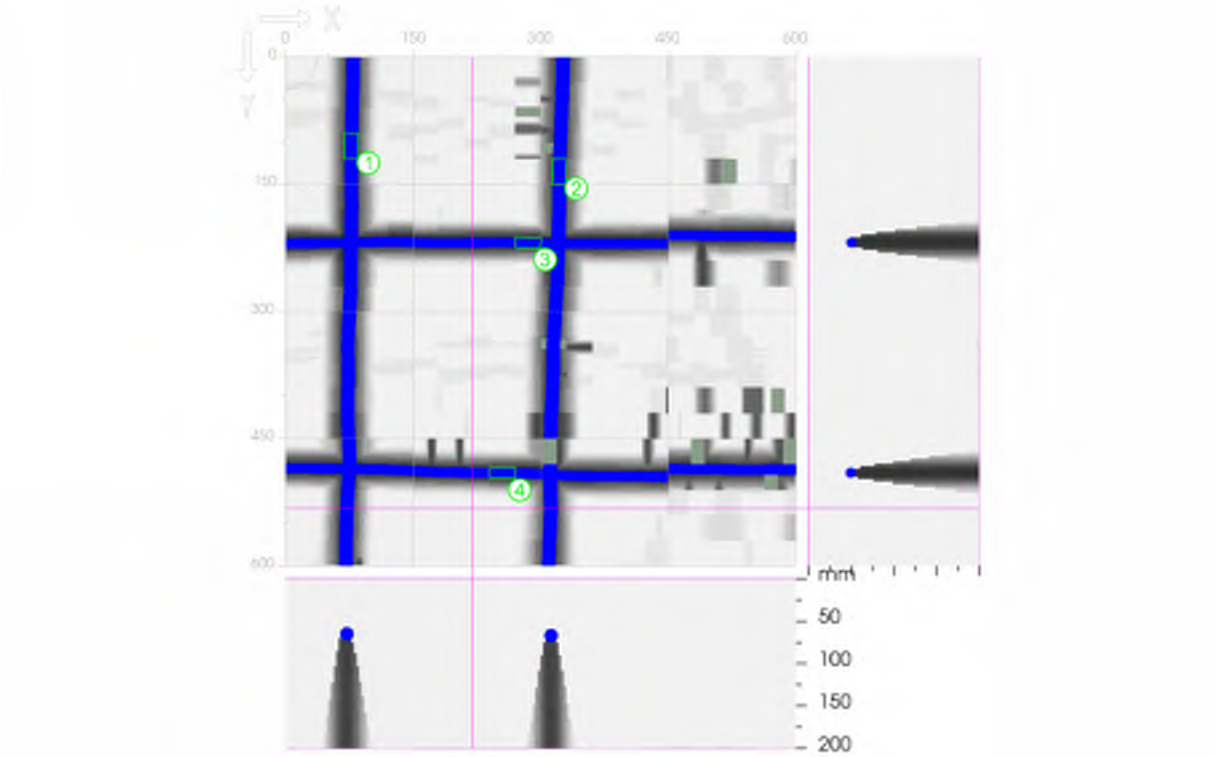
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 213 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	98 mm	225 mm	69 mm	28 mm	Vertical	High
2.	300 mm	225 mm	67 mm	28 mm	Vertical	High
3.	544 mm	225 mm	49 mm	28 mm	Vertical	High
4.	405 mm	84 mm	50 mm	6 mm	Horizontal	High
5.	375 mm	377 mm	48 mm	6 mm	Horizontal	High
6.	435 mm	598 mm	65 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	214.fscan
Serial number:	227190008
Date / Time:	2021-08-02 15:57:36
Comment:	-



x: 219 mm	y: 532 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

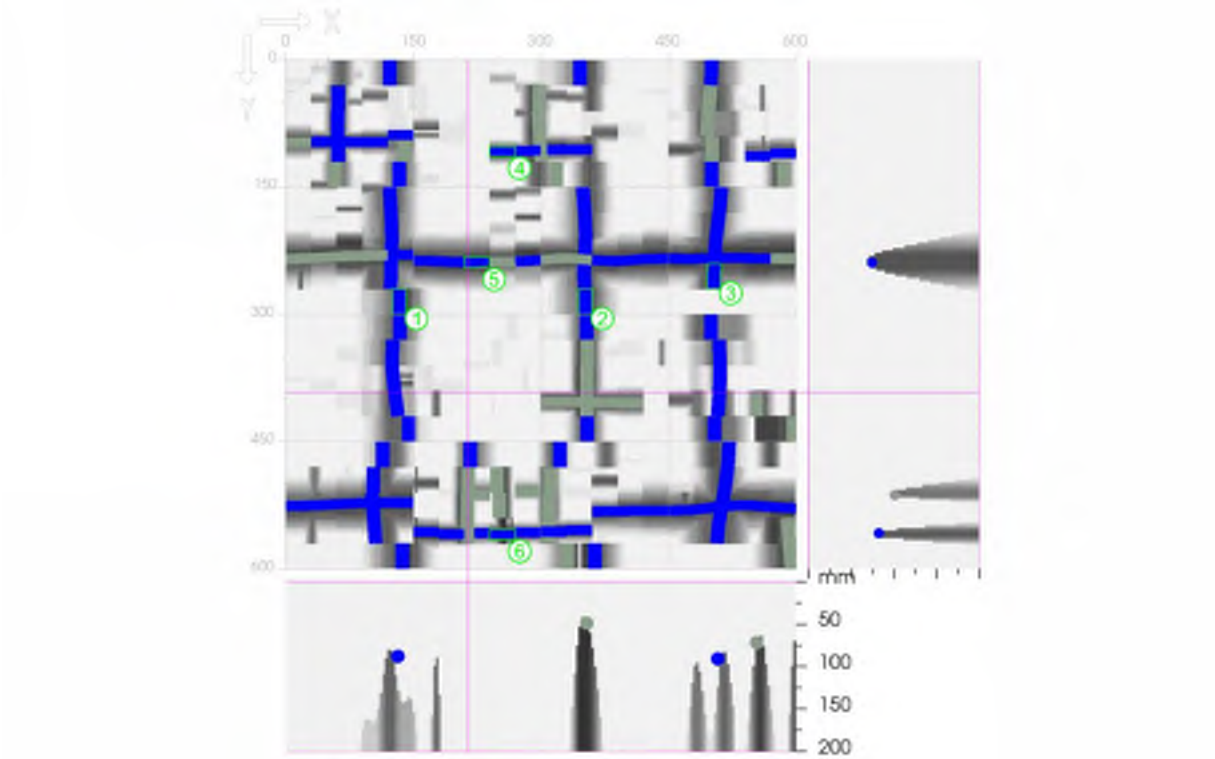
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 214	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	77 mm	105 mm	57 mm	16 mm	Vertical	High
2.	321 mm	135 mm	57 mm	16 mm	Vertical	High
3.	285 mm	219 mm	43 mm	12 mm	Horizontal	High
4.	255 mm	490 mm	41 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	215.fscan
Serial number:	227190008
Date / Time:	2021-08-02 16:00:13
Comment:	-



x: 214 mm	y: 392 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

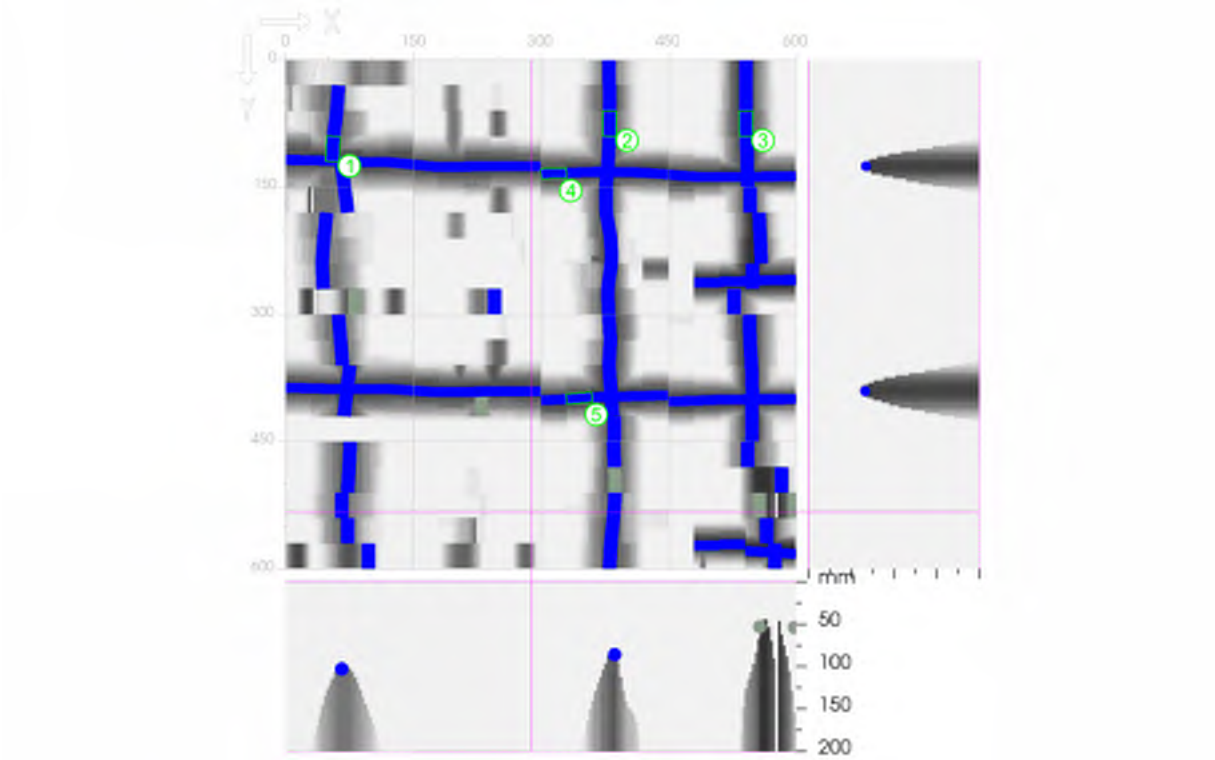
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 215	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	134 mm	285 mm	59 mm	16 mm	Vertical	High
2.	352 mm	285 mm	87 mm	16 mm	Vertical	High
3.	503 mm	255 mm	75 mm	16 mm	Vertical	High
4.	255 mm	108 mm	51 mm	12 mm	Horizontal	High
5.	225 mm	239 mm	68 mm	12 mm	Horizontal	High
6.	255 mm	559 mm	40 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	216.fscan
Serial number:	227190008
Date / Time:	2021-08-02 16:02:52
Comment:	-



x: 289 mm	y: 533 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

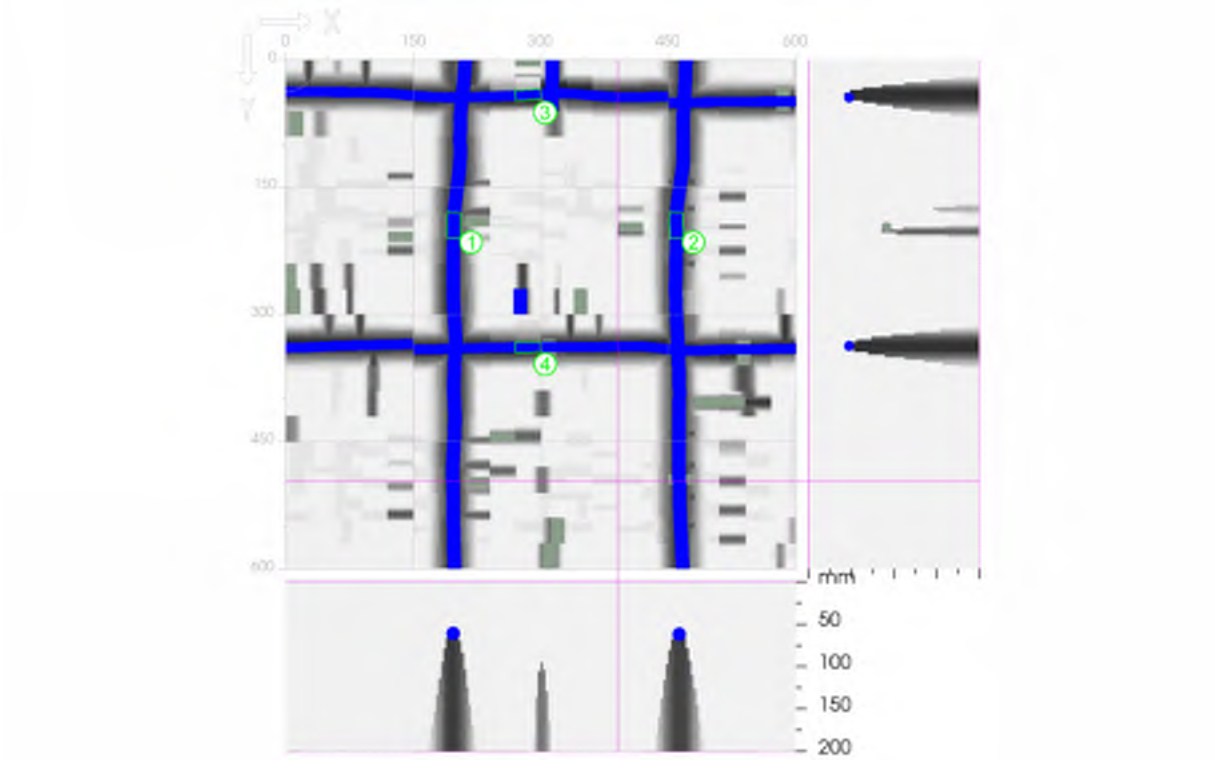
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 216	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	55 mm	105 mm	91 mm	16 mm	Vertical	High
2.	381 mm	75 mm	77 mm	16 mm	Vertical	High
3.	541 mm	75 mm	65 mm	16 mm	Vertical	High
4.	315 mm	134 mm	63 mm	12 mm	Horizontal	High
5.	345 mm	398 mm	56 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	217.fscan
Serial number:	227190008
Date / Time:	2021-08-02 16:12:48
Comment:	-



x: 391 mm	y: 496 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

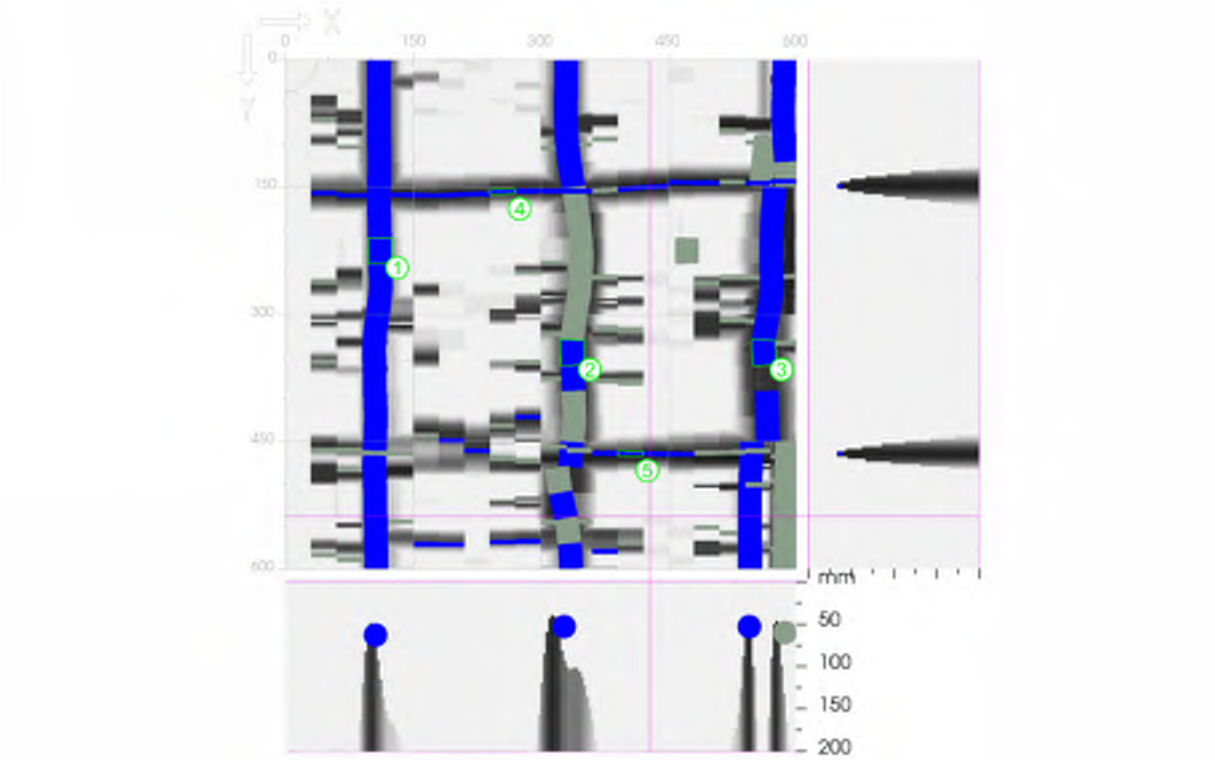
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 217	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	198 mm	195 mm	56 mm	16 mm	Vertical	High
2.	459 mm	195 mm	54 mm	16 mm	Vertical	High
3.	285 mm	42 mm	38 mm	12 mm	Horizontal	High
4.	285 mm	339 mm	42 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	218 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-08-02 16:18:06
Comment:	-



x: 428 mm	y: 538 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

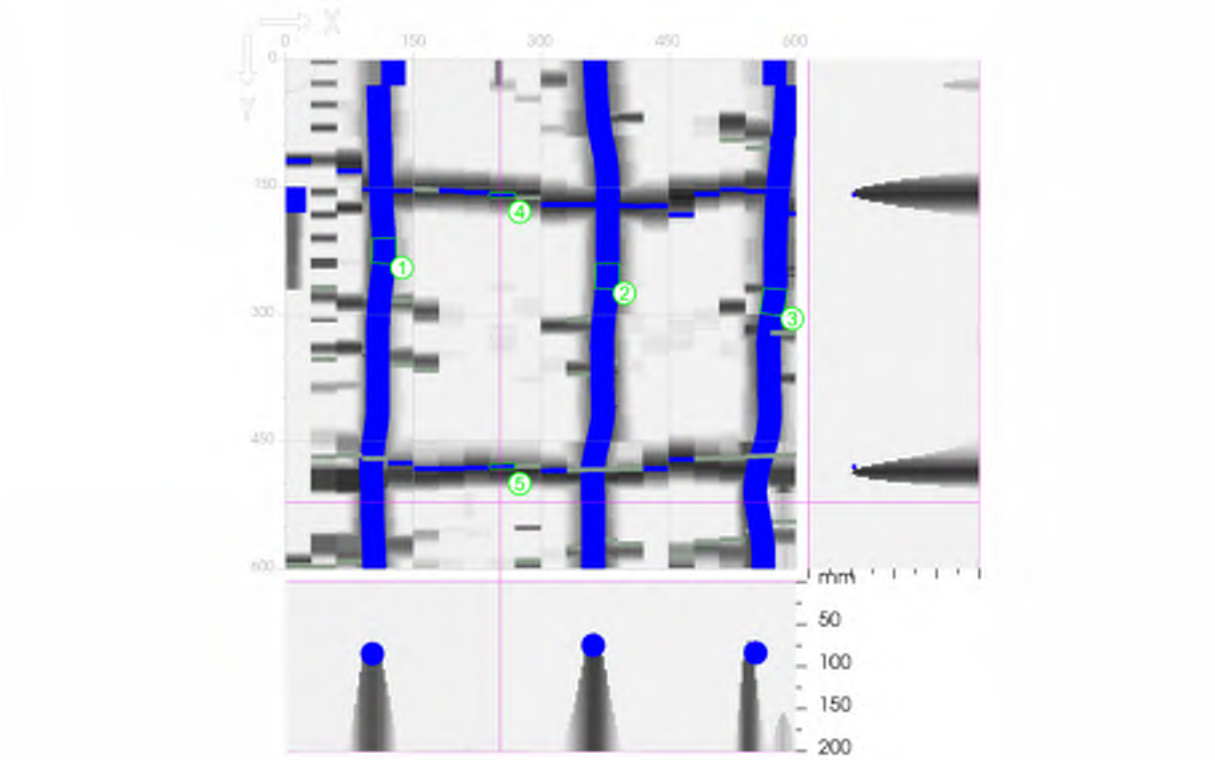
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 218 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	111 mm	225 mm	49 mm	28 mm	Vertical	High
2.	337 mm	345 mm	40 mm	28 mm	Vertical	High
3.	563 mm	345 mm	38 mm	28 mm	Vertical	High
4.	255 mm	156 mm	35 mm	6 mm	Horizontal	High
5.	405 mm	464 mm	32 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	218 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-08-02 16:15:59
Comment:	-



x: 252 mm	y: 522 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

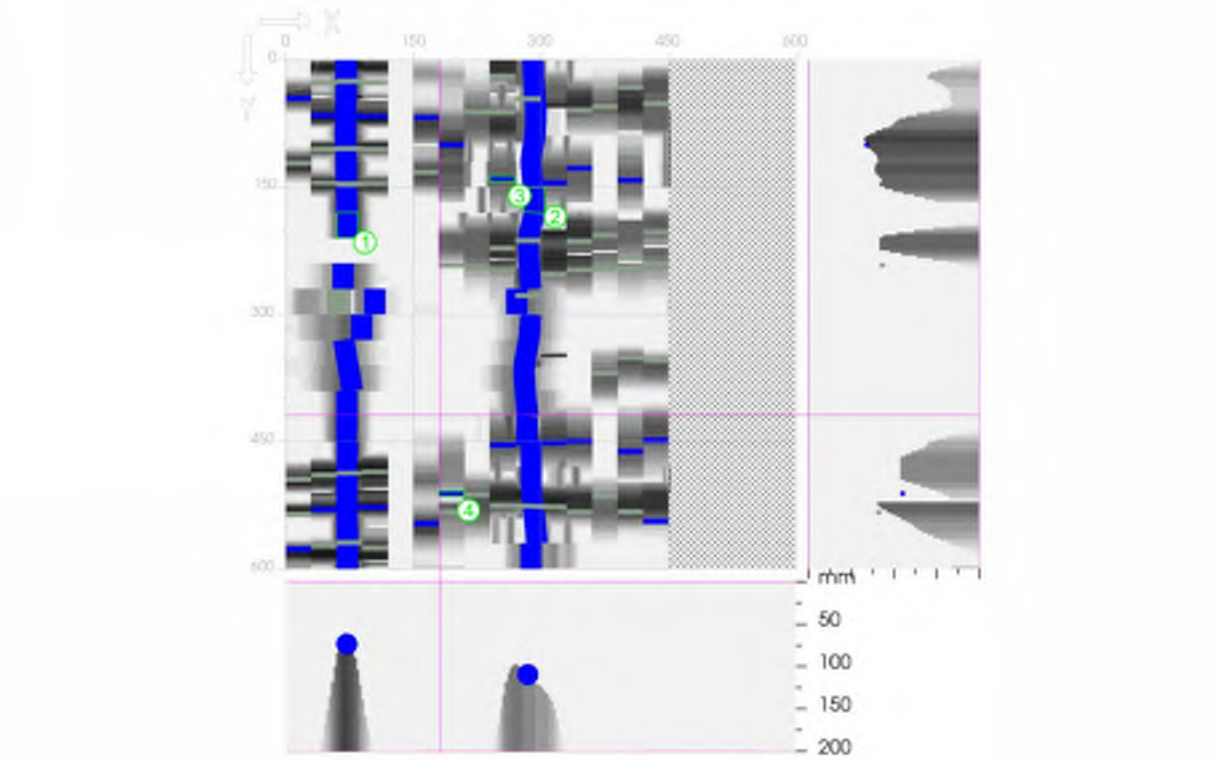
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 218 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	117 mm	225 mm	66 mm	28 mm	Vertical	High
2.	378 mm	255 mm	60 mm	28 mm	Vertical	High
3.	575 mm	285 mm	70 mm	28 mm	Vertical	High
4.	255 mm	159 mm	50 mm	6 mm	Horizontal	High
5.	255 mm	480 mm	50 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	219 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-08-02 16:26:18
Comment:	-



x: 182 mm	y: 419 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

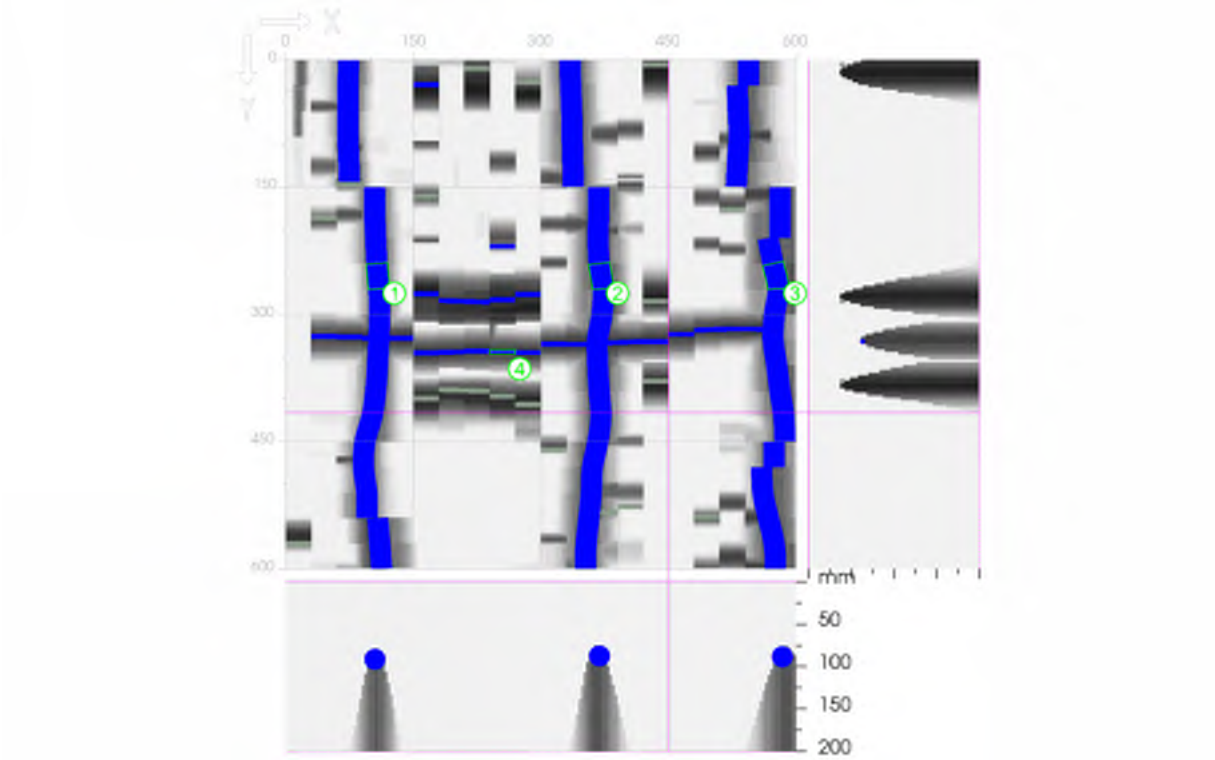
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 219 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	73 mm	195 mm	47 mm	25 mm	Vertical	High
2.	297 mm	165 mm	97 mm	25 mm	Vertical	High
3.	255 mm	140 mm	80 mm	6 mm	Horizontal	High
4.	195 mm	511 mm	107 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	220 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-08-02 17:56:04
Comment:	-



x: 450 mm	y: 416 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

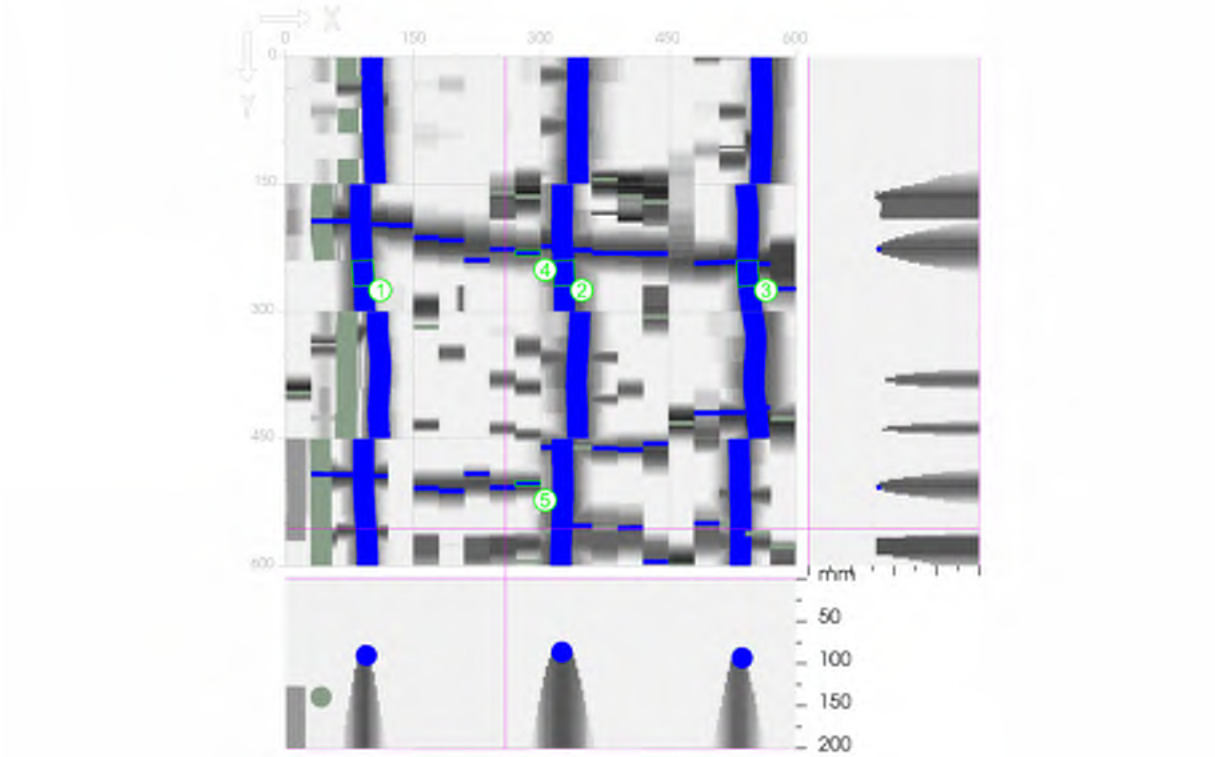
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 220 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	108 mm	255 mm	75 mm	25 mm	Vertical	High
2.	370 mm	255 mm	74 mm	25 mm	Vertical	High
3.	579 mm	255 mm	76 mm	25 mm	Vertical	High
4.	255 mm	344 mm	56 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	220 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-08-02 17:54:25
Comment:	-



x: 258 mm	y: 555 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

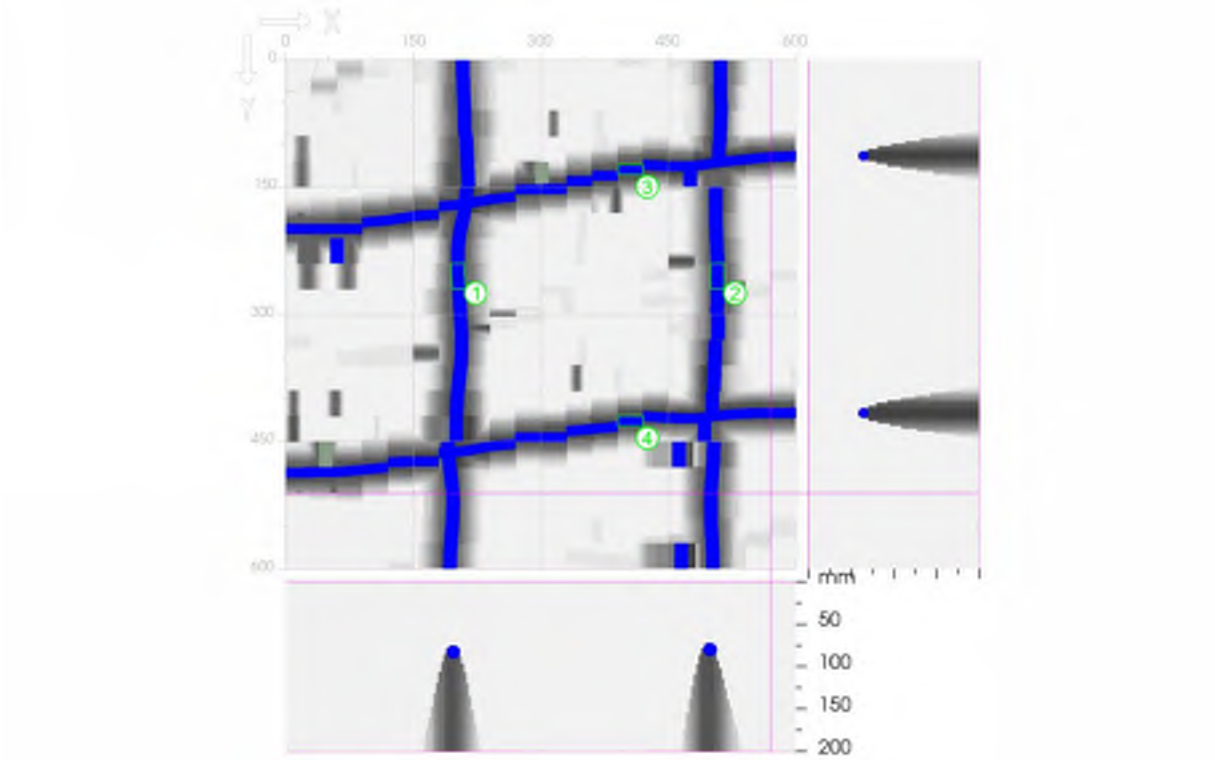
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 220 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	91 mm	255 mm	80 mm	25 mm	Vertical	High
2.	328 mm	255 mm	82 mm	25 mm	Vertical	High
3.	544 mm	255 mm	77 mm	25 mm	Vertical	High
4.	285 mm	231 mm	74 mm	6 mm	Horizontal	High
5.	285 mm	503 mm	71 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	221.fscan
Serial number:	227190008
Date / Time:	2021-08-03 14:00:28
Comment:	-



x: 570 mm	y: 510 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

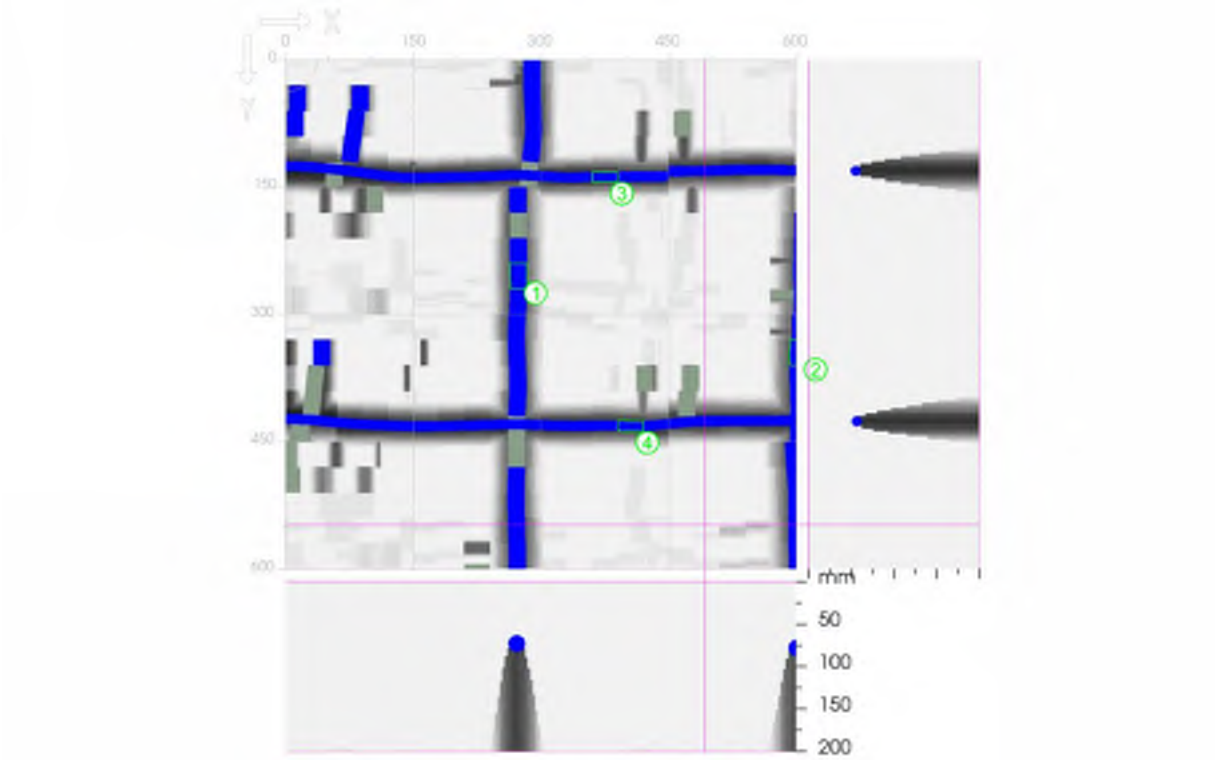
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 221	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	203 mm	255 mm	75 mm	16 mm	Vertical	High
2.	508 mm	255 mm	72 mm	16 mm	Vertical	High
3.	405 mm	130 mm	60 mm	12 mm	Horizontal	High
4.	405 mm	426 mm	59 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	222.fscan
Serial number:	227190008
Date / Time:	2021-08-03 14:04:24
Comment:	-



x: 493 mm	y: 548 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

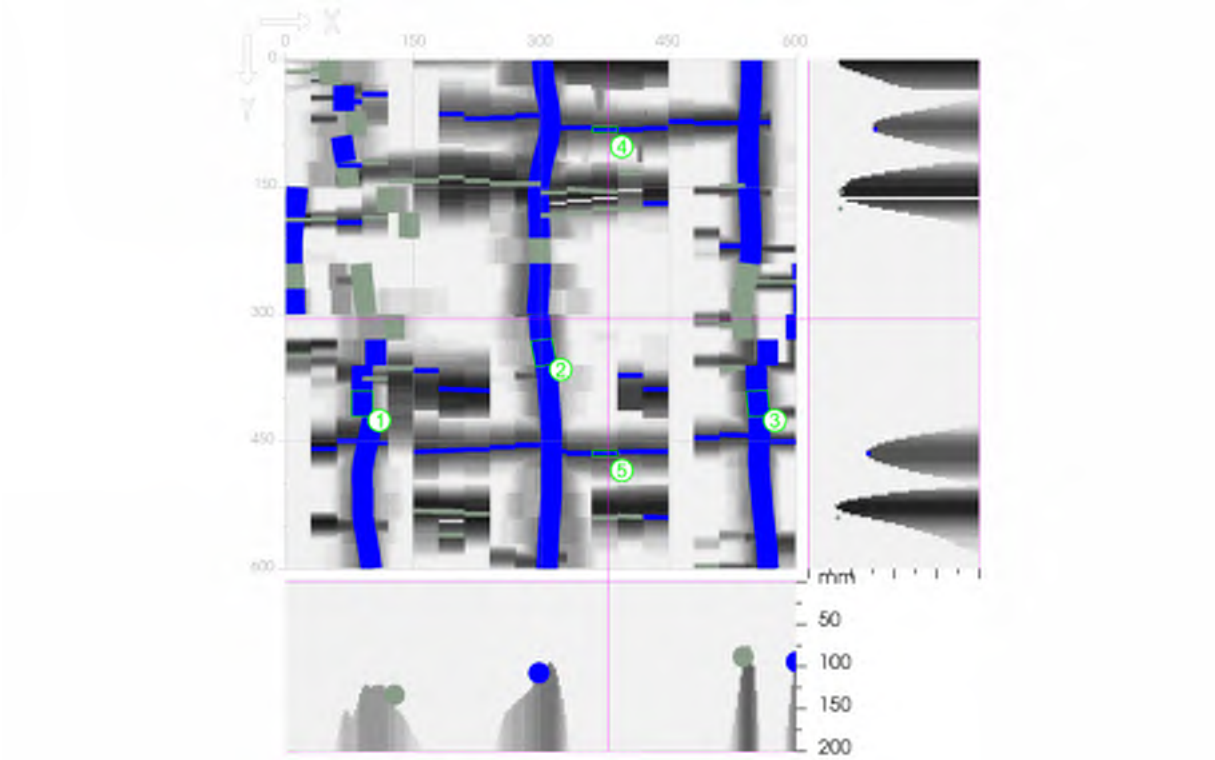
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 222	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	20 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	274 mm	255 mm	60 mm	20 mm	Vertical	High
2.	603 mm	345 mm	60 mm	20 mm	Vertical	High
3.	375 mm	138 mm	46 mm	12 mm	Horizontal	High
4.	405 mm	431 mm	50 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	223 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-08-03 16:16:52
Comment:	-



x: 378 mm	y: 306 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

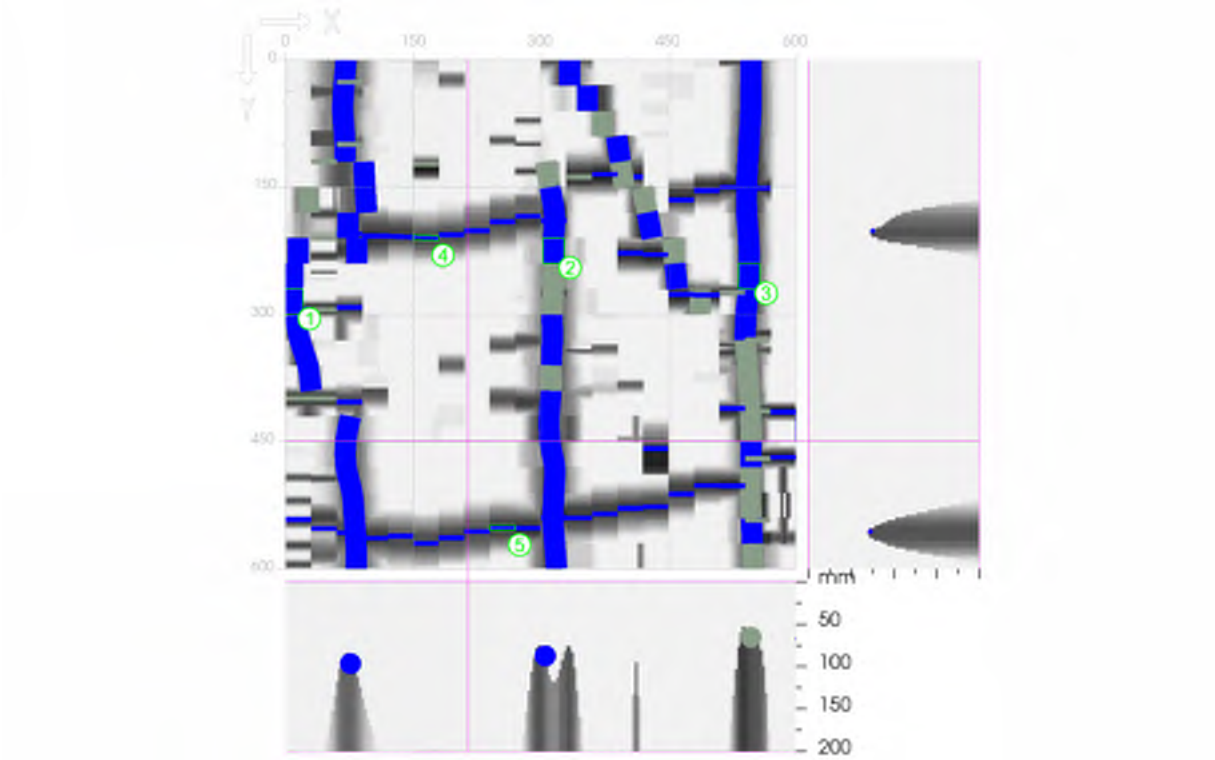
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 223 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	90 mm	405 mm	103 mm	25 mm	Vertical	High
2.	303 mm	345 mm	98 mm	25 mm	Vertical	High
3.	555 mm	405 mm	67 mm	25 mm	Vertical	High
4.	375 mm	82 mm	75 mm	6 mm	Horizontal	High
5.	375 mm	464 mm	67 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	223 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-08-03 16:18:54
Comment:	-



x: 214 mm	y: 449 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

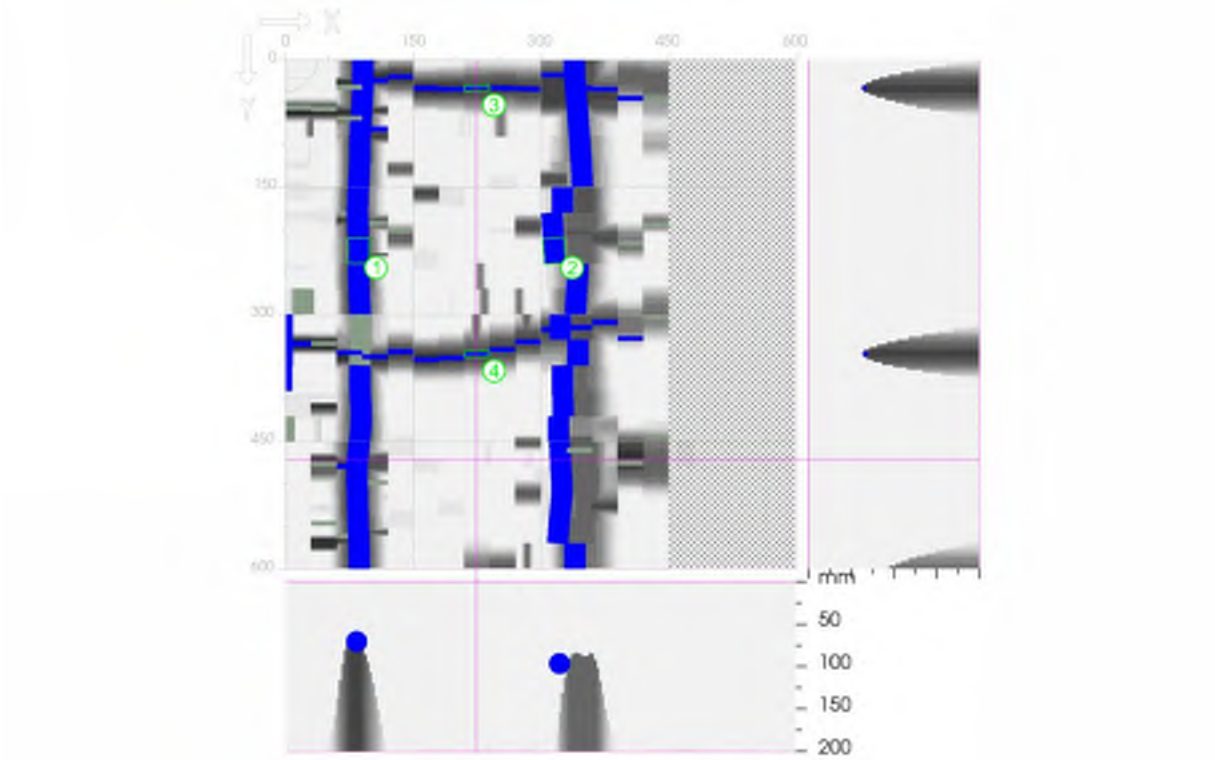
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 223 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	8 mm	285 mm	24 mm	25 mm	Vertical	High
2.	314 mm	225 mm	76 mm	25 mm	Vertical	High
3.	545 mm	255 mm	55 mm	25 mm	Vertical	High
4.	165 mm	210 mm	61 mm	6 mm	Horizontal	High
5.	255 mm	552 mm	56 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	224 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-08-03 16:23:44
Comment:	-



x: 224 mm	y: 472 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

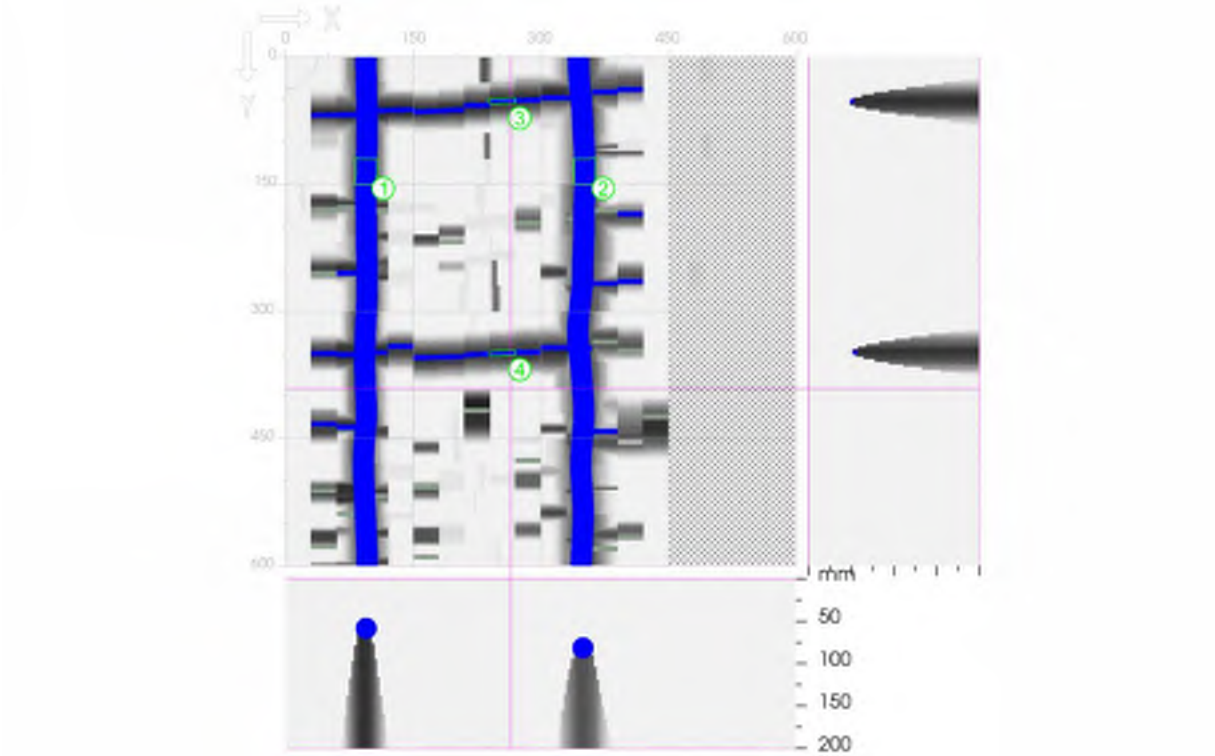
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 224 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	86 mm	225 mm	57 mm	25 mm	Vertical	High
2.	317 mm	225 mm	86 mm	25 mm	Vertical	High
3.	225 mm	33 mm	62 mm	6 mm	Horizontal	High
4.	225 mm	347 mm	63 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	224 -West Face.fscan
Serial number:	227190008
Date / Time:	2021-08-03 16:25:19
Comment:	-



x: 264 mm	y: 391 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

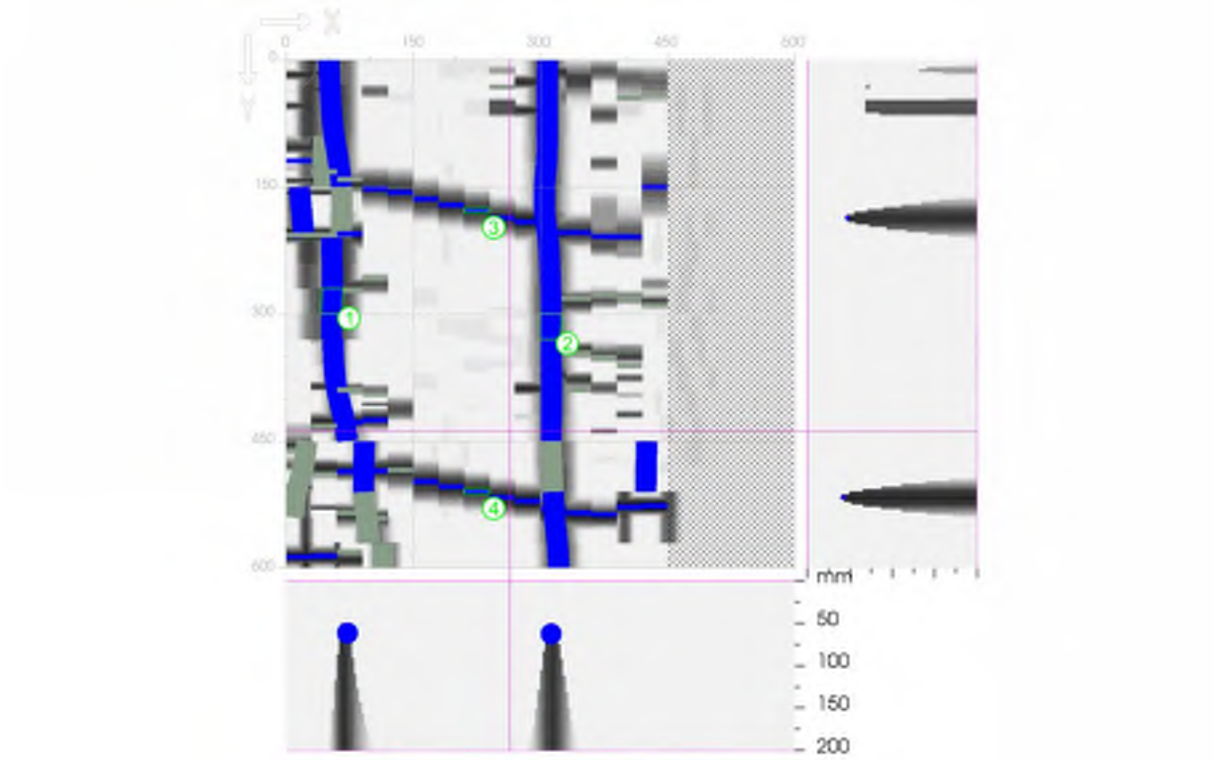
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 224 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	95 mm	135 mm	47 mm	25 mm	Vertical	High
2.	353 mm	135 mm	67 mm	25 mm	Vertical	High
3.	255 mm	52 mm	48 mm	6 mm	Horizontal	High
4.	255 mm	349 mm	51 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	225 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-08-03 17:50:20
Comment:	-



x: 264 mm	y: 438 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

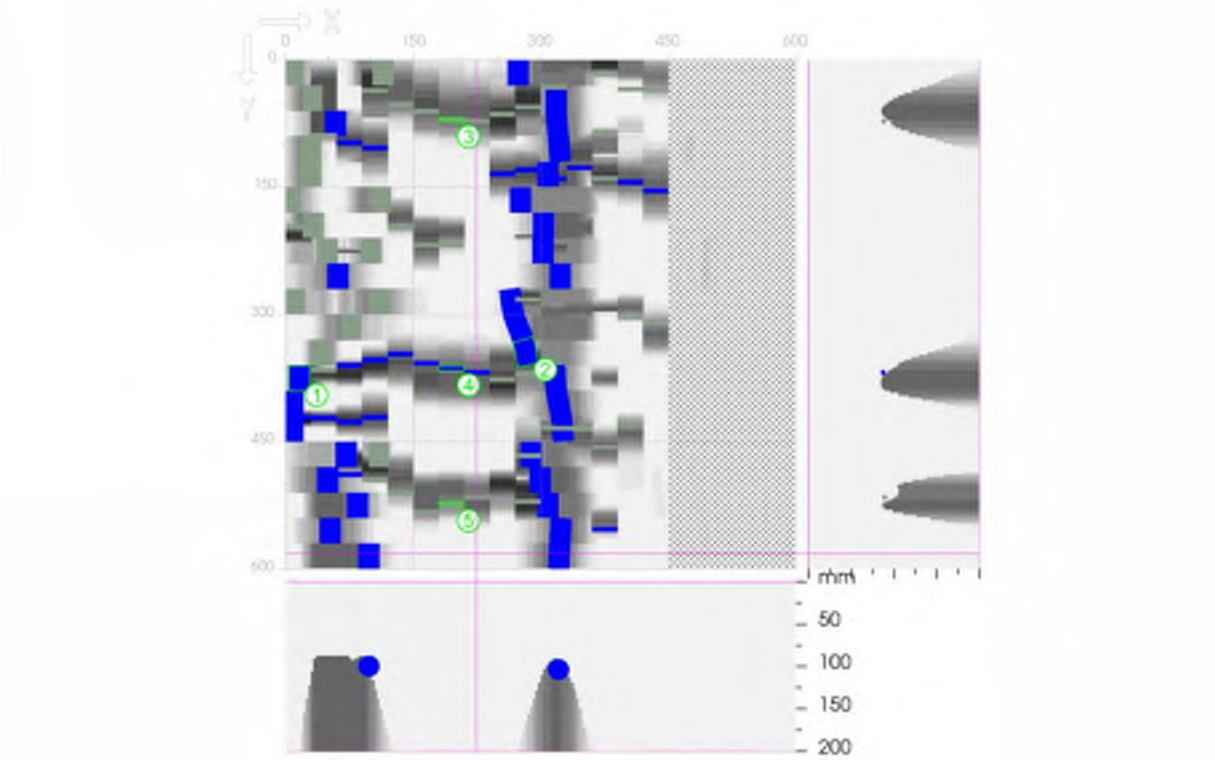
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 225 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	54 mm	285 mm	63 mm	25 mm	Vertical	High
2.	312 mm	315 mm	51 mm	25 mm	Vertical	High
3.	225 mm	178 mm	46 mm	6 mm	Horizontal	High
4.	225 mm	509 mm	41 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	225 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-08-03 17:48:35
Comment:	-



x: 224 mm	y: 582 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

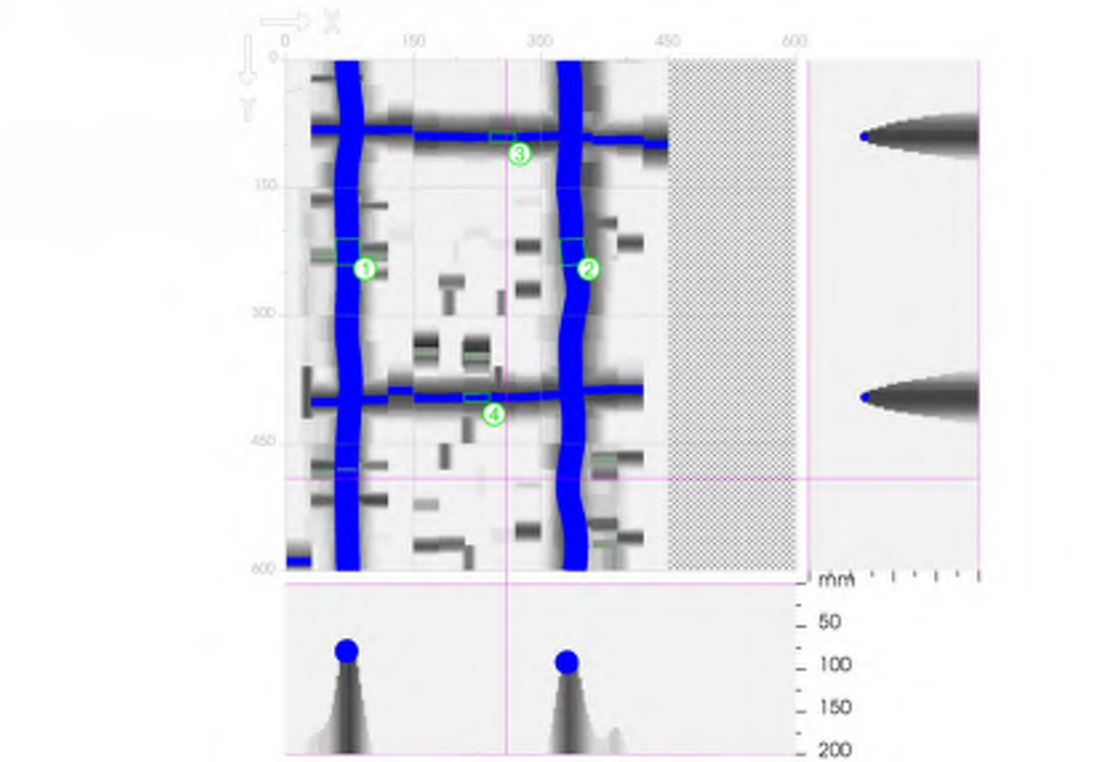
Project name:	CIS - L3	Customer:	CIS Tower
Location:	Level 3 Loc 225 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	16 mm	375 mm	69 mm	25 mm	Vertical	High
2.	285 mm	345 mm	111 mm	25 mm	Vertical	High
3.	195 mm	70 mm	84 mm	6 mm	Horizontal	Low
4.	195 mm	363 mm	83 mm	6 mm	Horizontal	High
5.	195 mm	523 mm	87 mm	6 mm	Horizontal	Low

.Hilti PROFIS Detection Report

Scan File:	226 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-07-07 17:36:21
Comment:	-



x: 259 mm	y: 491 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

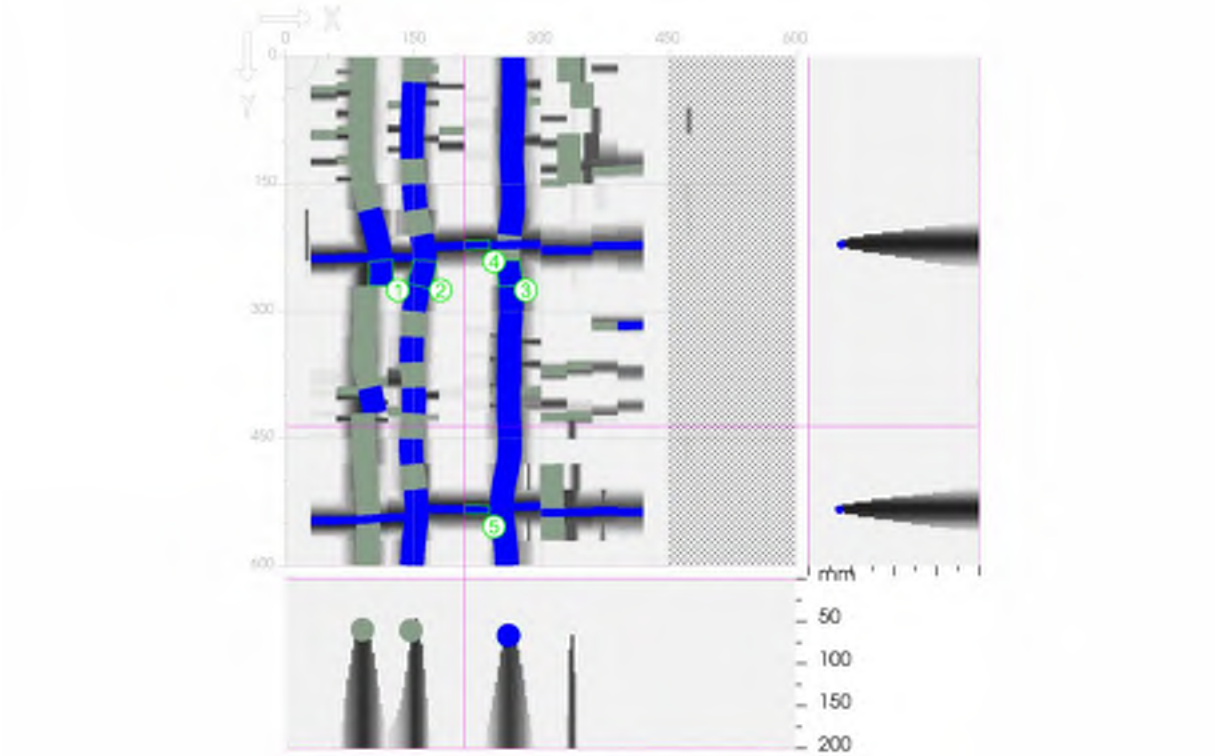
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 226 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	73 mm	225 mm	67 mm	28 mm	Vertical	High
2.	336 mm	225 mm	76 mm	28 mm	Vertical	High
3.	255 mm	90 mm	60 mm	10 mm	Horizontal	High
4.	225 mm	396 mm	64 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	226 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-07-07 17:34:23
Comment:	-



x: 210 mm	y: 435 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

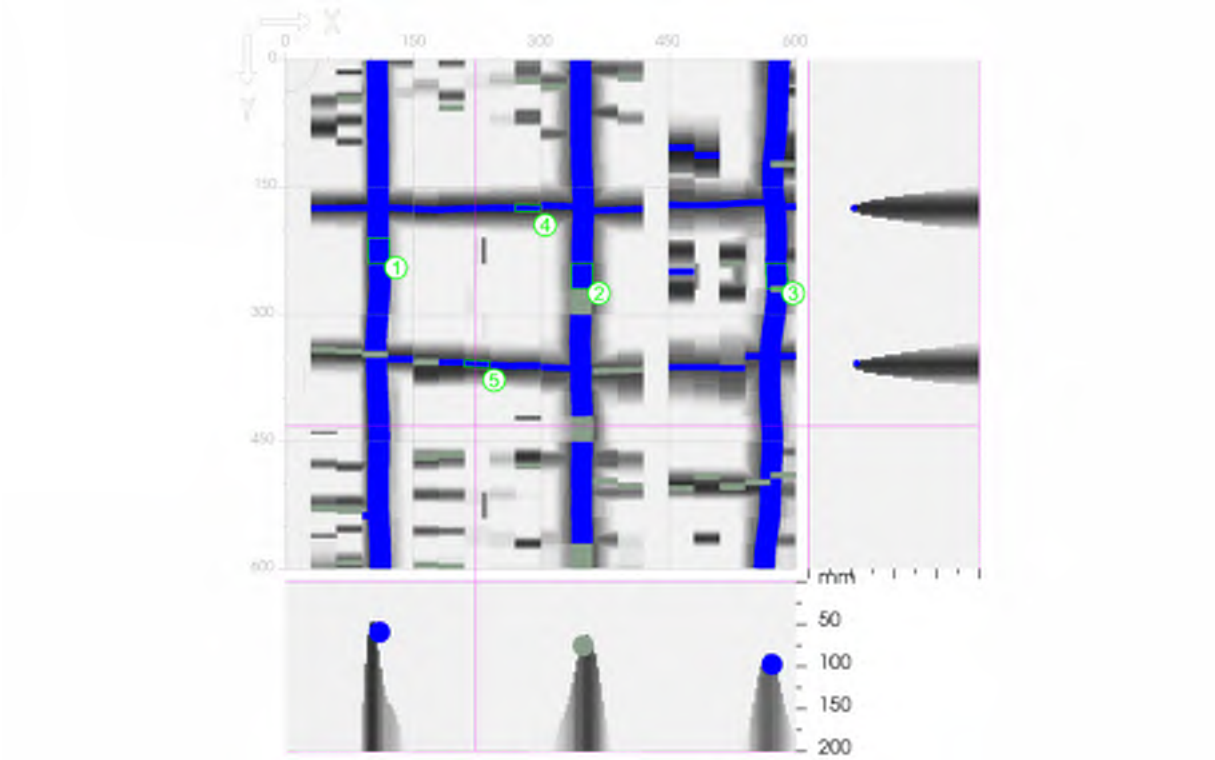
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 226 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	112 mm	255 mm	44 mm	28 mm	Vertical	High
2.	162 mm	255 mm	47 mm	28 mm	Vertical	High
3.	262 mm	255 mm	53 mm	28 mm	Vertical	High
4.	225 mm	221 mm	33 mm	10 mm	Horizontal	High
5.	225 mm	534 mm	31 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	227 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-07-07 17:21:55
Comment:	-



x: 223 mm	y: 432 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

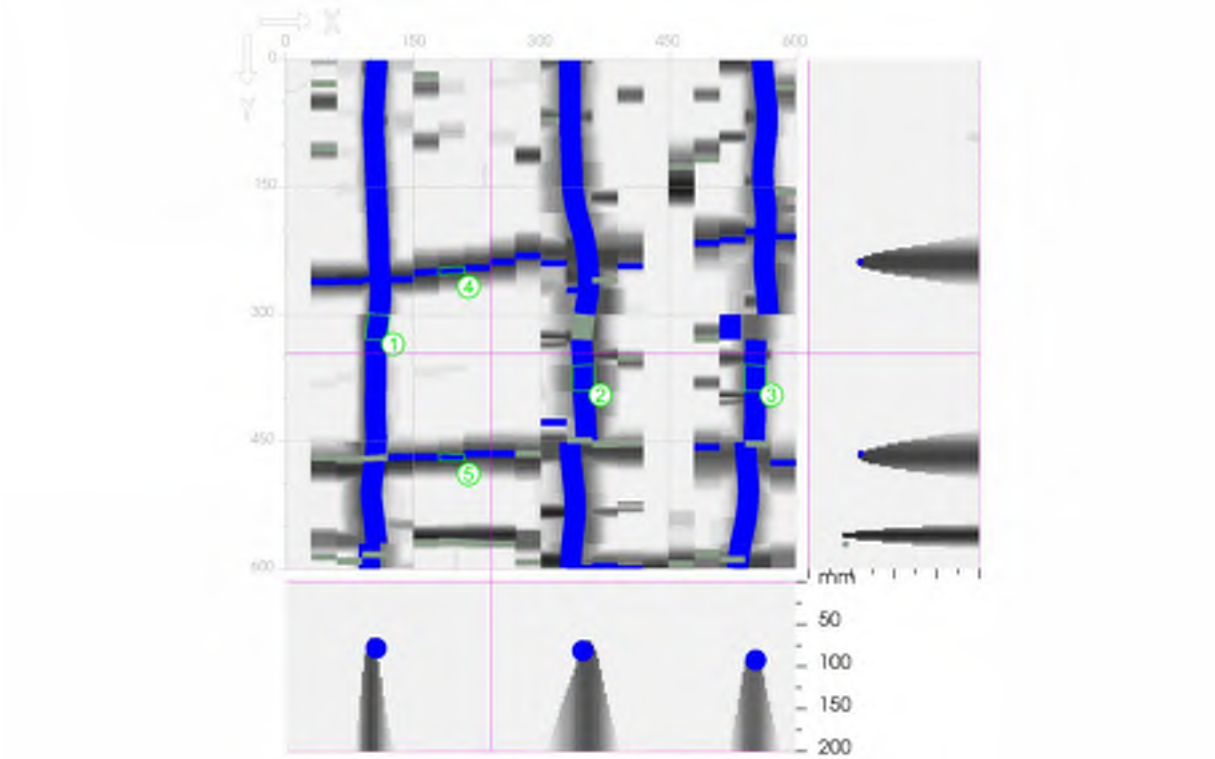
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 227 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	8 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	110 mm	225 mm	50 mm	25 mm	Vertical	High
2.	348 mm	255 mm	64 mm	25 mm	Vertical	High
3.	576 mm	255 mm	97 mm	25 mm	Vertical	High
4.	285 mm	175 mm	52 mm	8 mm	Horizontal	High
5.	225 mm	357 mm	52 mm	8 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	227 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-07-07 17:17:43
Comment:	-



x: 242 mm	y: 346 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

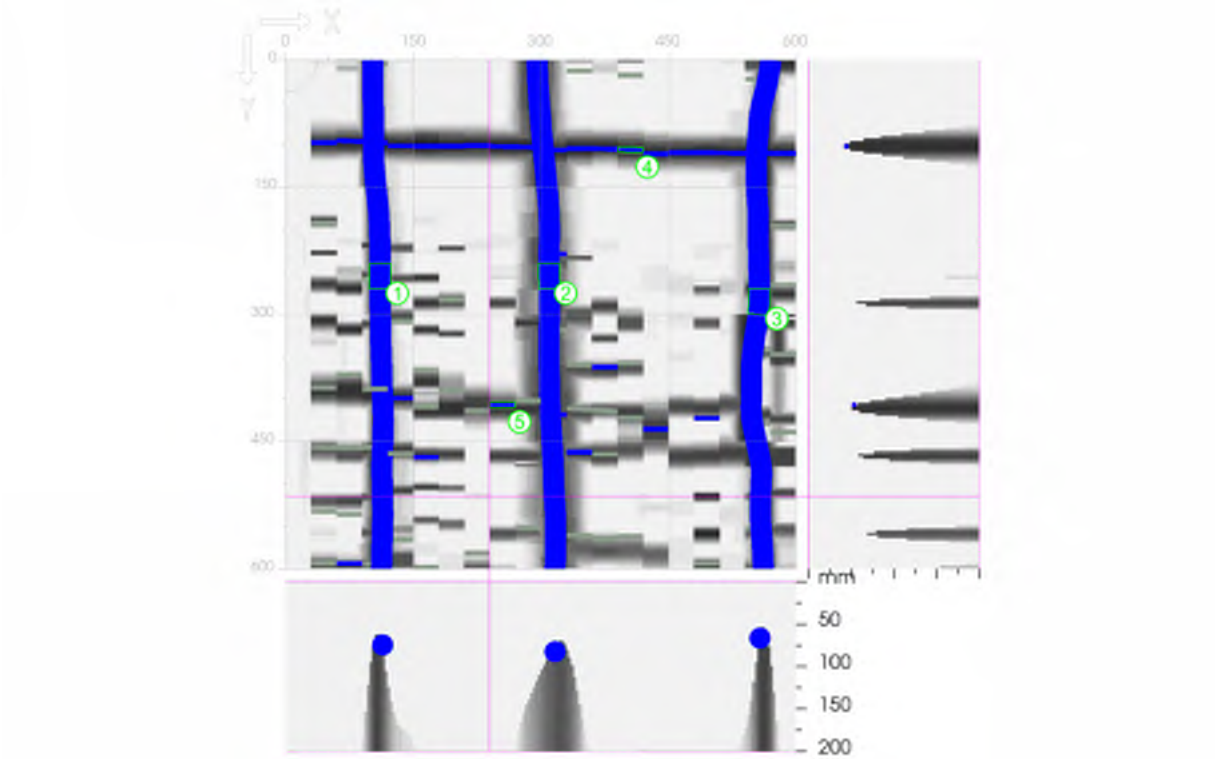
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 227 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	8 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	106 mm	315 mm	65 mm	25 mm	Vertical	High
2.	350 mm	375 mm	70 mm	25 mm	Vertical	High
3.	551 mm	375 mm	84 mm	25 mm	Vertical	High
4.	195 mm	248 mm	55 mm	8 mm	Horizontal	High
5.	195 mm	469 mm	54 mm	8 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	228 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-07-08 14:11:50
Comment:	-



x: 240 mm	y: 515 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

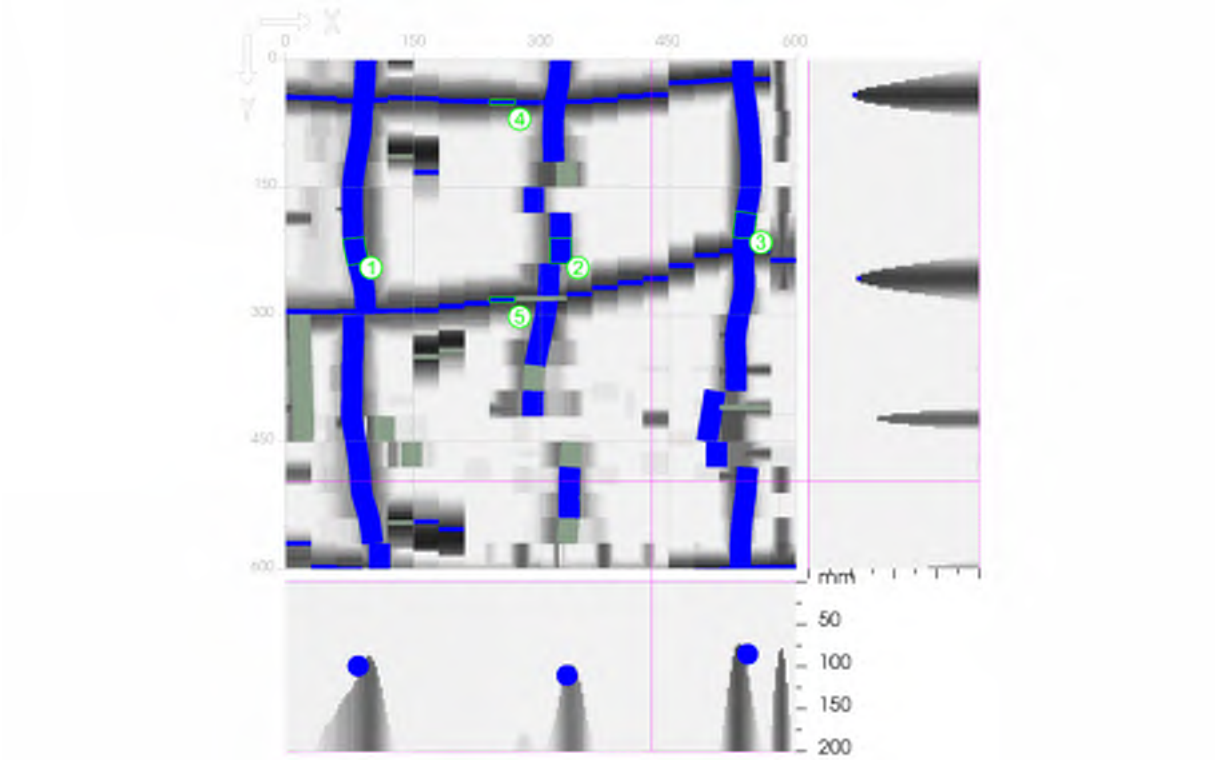
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 228 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	111 mm	255 mm	49 mm	25 mm	Vertical	High
2.	309 mm	255 mm	61 mm	25 mm	Vertical	High
3.	557 mm	285 mm	48 mm	25 mm	Vertical	High
4.	405 mm	106 mm	45 mm	6 mm	Horizontal	High
5.	255 mm	407 mm	50 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	228 -South Face.fscan
Serial number:	227190008
Date / Time:	2021-07-08 14:04:29
Comment:	-



x: 430 mm	y: 497 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

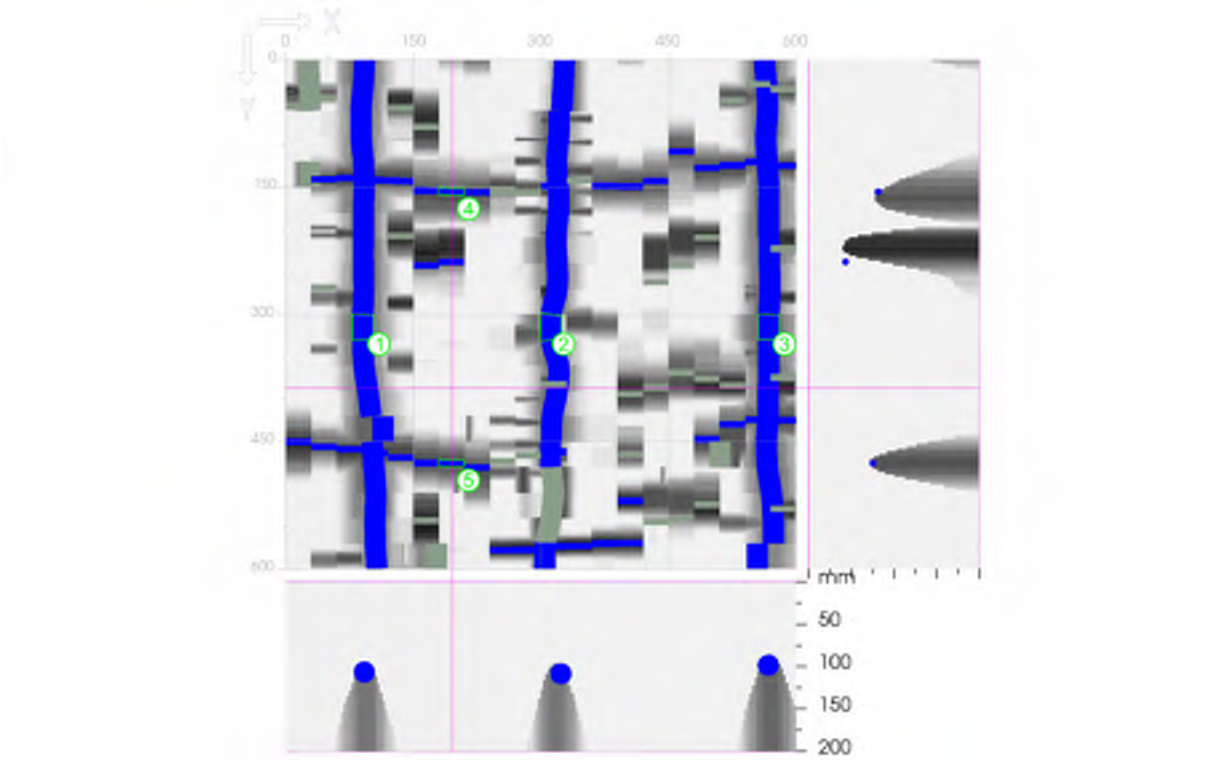
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 228 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	80 mm	225 mm	89 mm	25 mm	Vertical	High
2.	324 mm	225 mm	87 mm	25 mm	Vertical	High
3.	538 mm	195 mm	67 mm	25 mm	Vertical	High
4.	255 mm	50 mm	56 mm	6 mm	Horizontal	High
5.	255 mm	283 mm	58 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	229 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-07-08 16:38:30
Comment:	-



x: 196 mm	y: 387 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

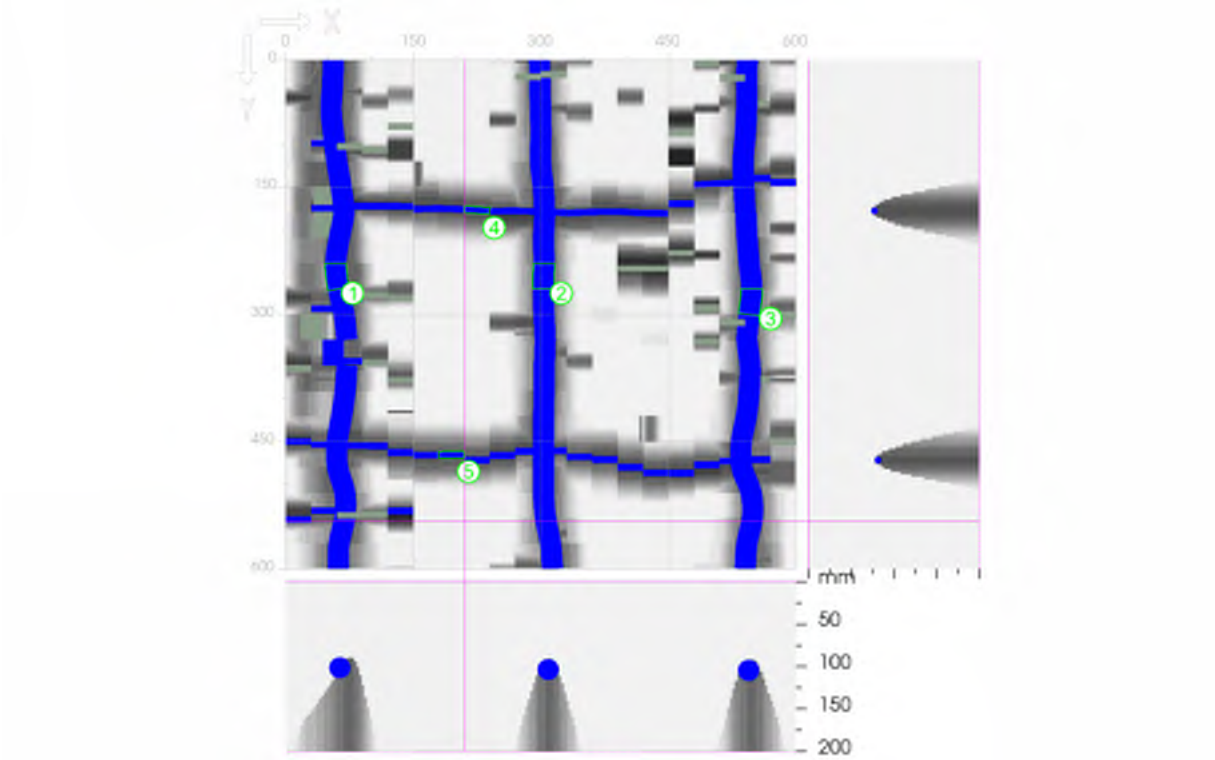
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 229 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	8 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	90 mm	315 mm	93 mm	25 mm	Vertical	High
2.	307 mm	315 mm	97 mm	25 mm	Vertical	High
3.	566 mm	315 mm	88 mm	25 mm	Vertical	High
4.	195 mm	156 mm	77 mm	8 mm	Horizontal	High
5.	195 mm	476 mm	71 mm	8 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	229 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-07-08 16:41:11
Comment:	-



x: 211 mm	y: 544 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

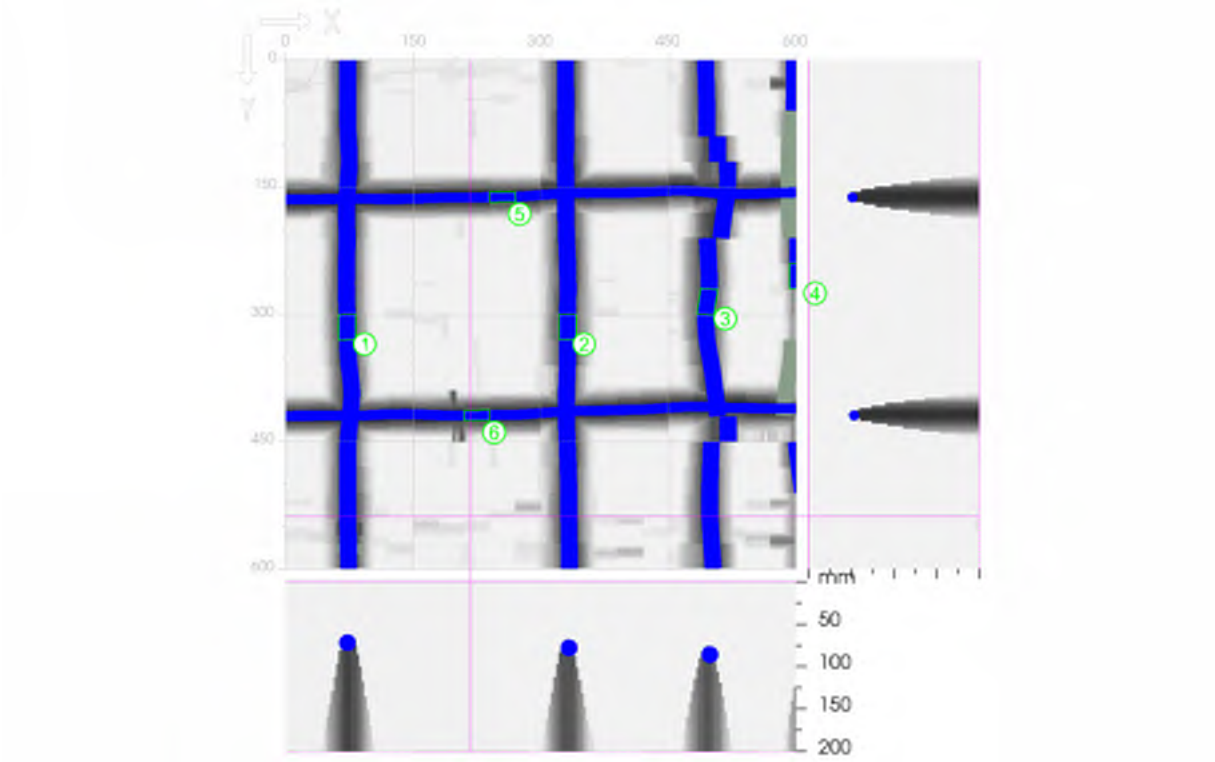
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 229 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	8 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	59 mm	255 mm	84 mm	25 mm	Vertical	High
2.	304 mm	255 mm	85 mm	25 mm	Vertical	High
3.	550 mm	285 mm	82 mm	25 mm	Vertical	High
4.	225 mm	178 mm	73 mm	8 mm	Horizontal	High
5.	195 mm	465 mm	75 mm	8 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	232.fscan
Serial number:	227190008
Date / Time:	2021-07-08 12:12:08
Comment:	-



x: 217 mm	y: 538 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

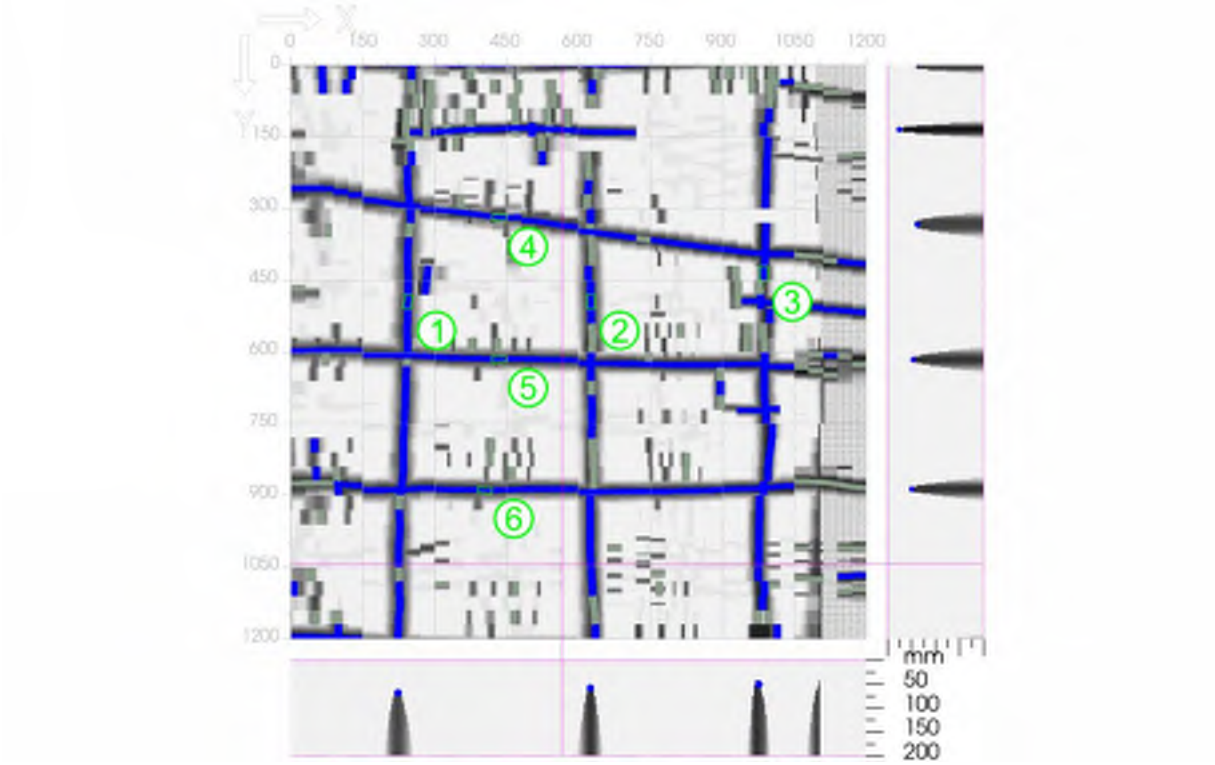
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 232	Object:	Wall
User:	BD		
Comment:	Main bar size is 18mm Smooth		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	20 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	73 mm	315 mm	60 mm	20 mm	Vertical	High
2.	331 mm	315 mm	63 mm	20 mm	Vertical	High
3.	497 mm	285 mm	72 mm	20 mm	Vertical	High
4.	602 mm	255 mm	75 mm	20 mm	Vertical	High
5.	255 mm	162 mm	45 mm	12 mm	Horizontal	High
6.	225 mm	419 mm	47 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	233.fscan
Serial number:	227190008
Date / Time:	2021-07-07 14:53:58
Comment:	-



x: 565 mm	y: 1043 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

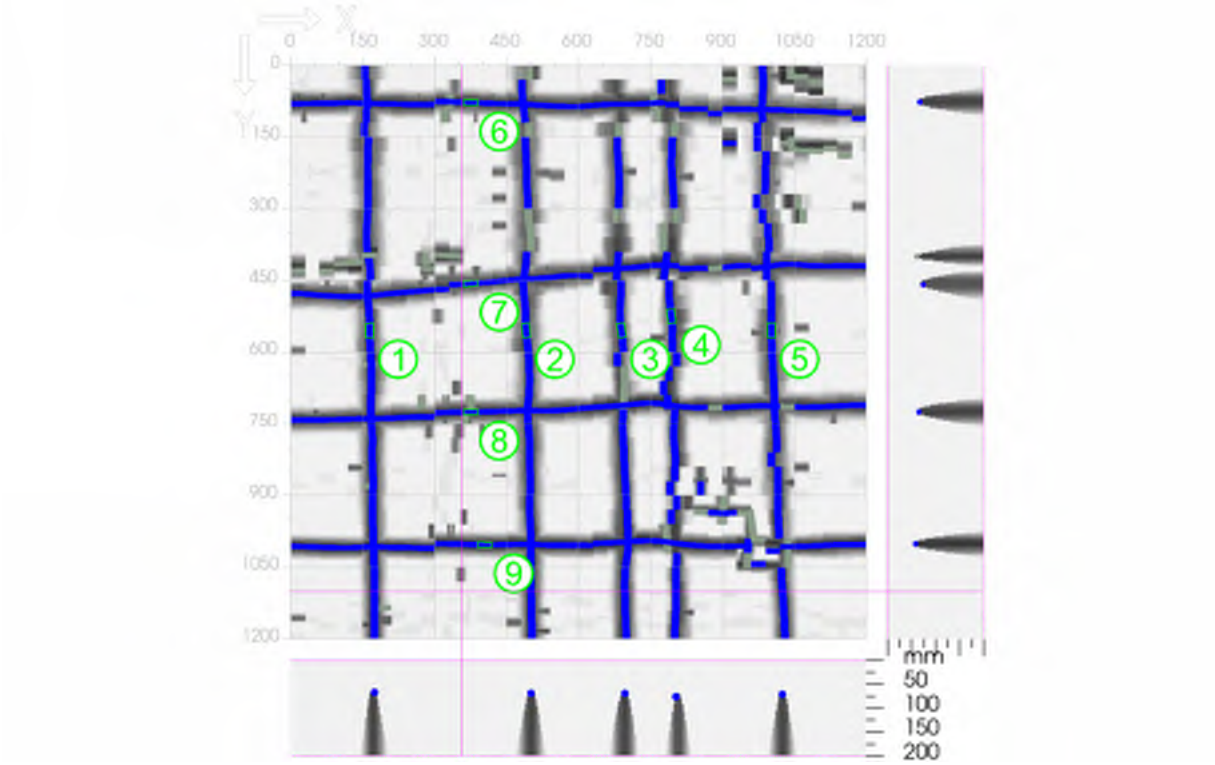
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 233	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	244 mm	495 mm	68 mm	16 mm	Vertical	High
2.	626 mm	495 mm	59 mm	16 mm	Vertical	High
3.	986 mm	435 mm	50 mm	16 mm	Vertical	High
4.	435 mm	320 mm	60 mm	12 mm	Horizontal	High
5.	435 mm	615 mm	48 mm	12 mm	Horizontal	High
6.	405 mm	889 mm	48 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	234.fscan
Serial number:	227190008
Date / Time:	2021-07-08 13:31:26
Comment:	-



x: 357 mm	y: 1101 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

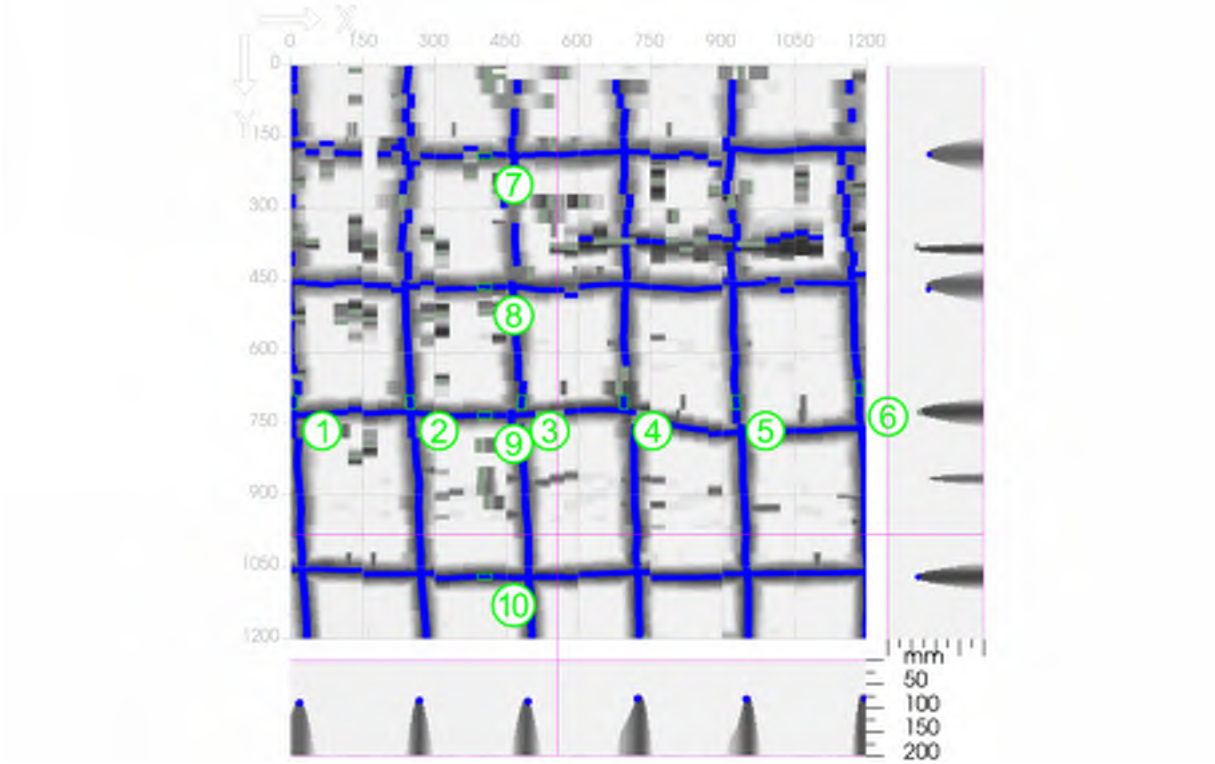
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 234	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	164 mm	555 mm	75 mm	16 mm	Vertical	High
2.	491 mm	555 mm	82 mm	16 mm	Vertical	High
3.	690 mm	555 mm	75 mm	16 mm	Vertical	High
4.	795 mm	525 mm	76 mm	16 mm	Vertical	High
5.	1001 mm	555 mm	80 mm	16 mm	Vertical	High
6.	375 mm	78 mm	62 mm	12 mm	Horizontal	High
7.	375 mm	457 mm	66 mm	12 mm	Horizontal	High
8.	375 mm	725 mm	59 mm	12 mm	Horizontal	High
9.	405 mm	1003 mm	53 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	235.fscan
Serial number:	227190008
Date / Time:	2021-07-08 12:05:28
Comment:	-



x: 556 mm	y: 982 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

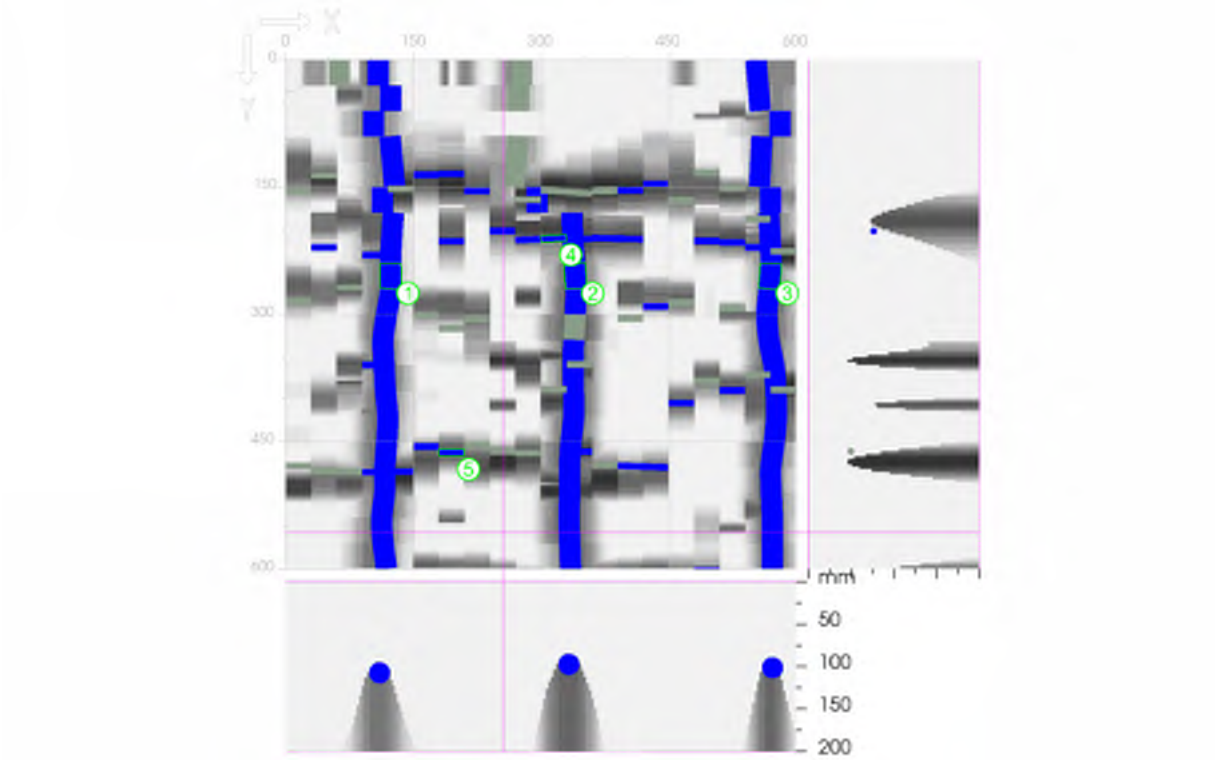
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 235	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	5 mm	705 mm	93 mm	16 mm	Vertical	High
2.	249 mm	705 mm	84 mm	16 mm	Vertical	High
3.	480 mm	705 mm	81 mm	16 mm	Vertical	High
4.	694 mm	705 mm	76 mm	16 mm	Vertical	High
5.	930 mm	705 mm	78 mm	16 mm	Vertical	High
6.	1185 mm	675 mm	80 mm	16 mm	Vertical	High
7.	405 mm	190 mm	79 mm	12 mm	Horizontal	High
8.	405 mm	463 mm	74 mm	12 mm	Horizontal	High
9.	405 mm	732 mm	72 mm	12 mm	Horizontal	High
10.	405 mm	1070 mm	59 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	236 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-07-07 17:05:03
Comment:	-



x: 256 mm	y: 557 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

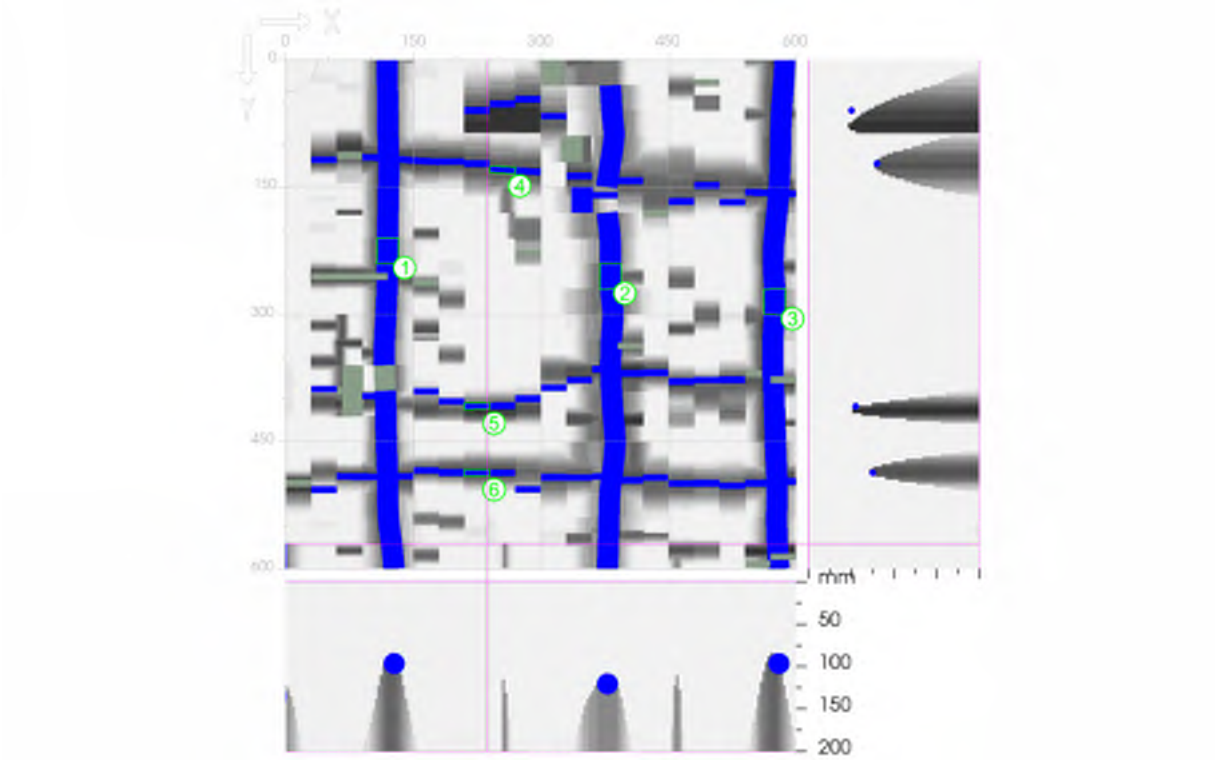
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 236 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	8 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	124 mm	255 mm	105 mm	25 mm	Vertical	High
2.	341 mm	255 mm	89 mm	25 mm	Vertical	High
3.	569 mm	255 mm	97 mm	25 mm	Vertical	High
4.	315 mm	210 mm	61 mm	8 mm	Horizontal	High
5.	195 mm	463 mm	80 mm	8 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	236 - East Face.fscan
Serial number:	227190008
Date / Time:	2021-07-07 17:12:58
Comment:	-



x: 237 mm	y: 571 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

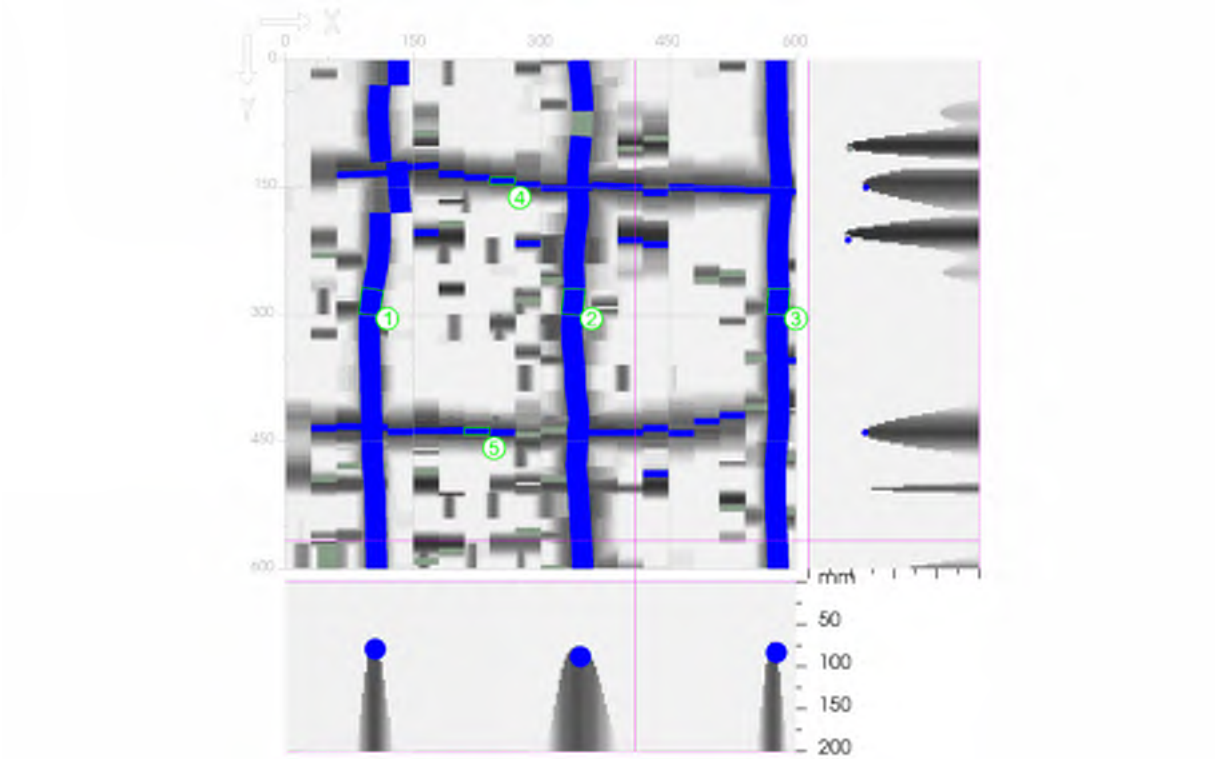
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 236 East Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	8 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	120 mm	225 mm	69 mm	25 mm	Vertical	High
2.	379 mm	255 mm	93 mm	25 mm	Vertical	High
3.	576 mm	285 mm	72 mm	25 mm	Vertical	High
4.	255 mm	129 mm	72 mm	8 mm	Horizontal	High
5.	225 mm	408 mm	51 mm	8 mm	Horizontal	High
6.	225 mm	487 mm	71 mm	8 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	242 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-07-07 16:59:53
Comment:	-



x: 411 mm	y: 567 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

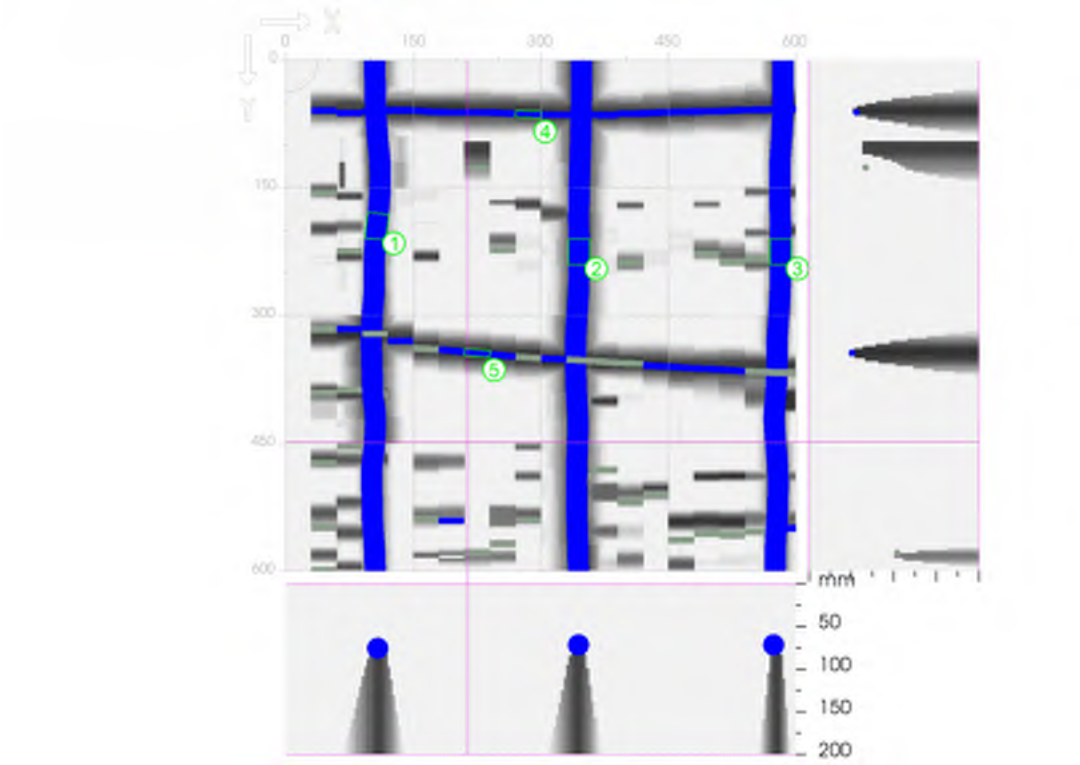
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 242 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	8 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	100 mm	285 mm	69 mm	25 mm	Vertical	High
2.	339 mm	285 mm	73 mm	25 mm	Vertical	High
3.	580 mm	285 mm	72 mm	25 mm	Vertical	High
4.	255 mm	142 mm	59 mm	8 mm	Horizontal	High
5.	225 mm	438 mm	67 mm	8 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	242 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-07-07 16:57:09
Comment:	-



x: 214 mm	y: 448 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

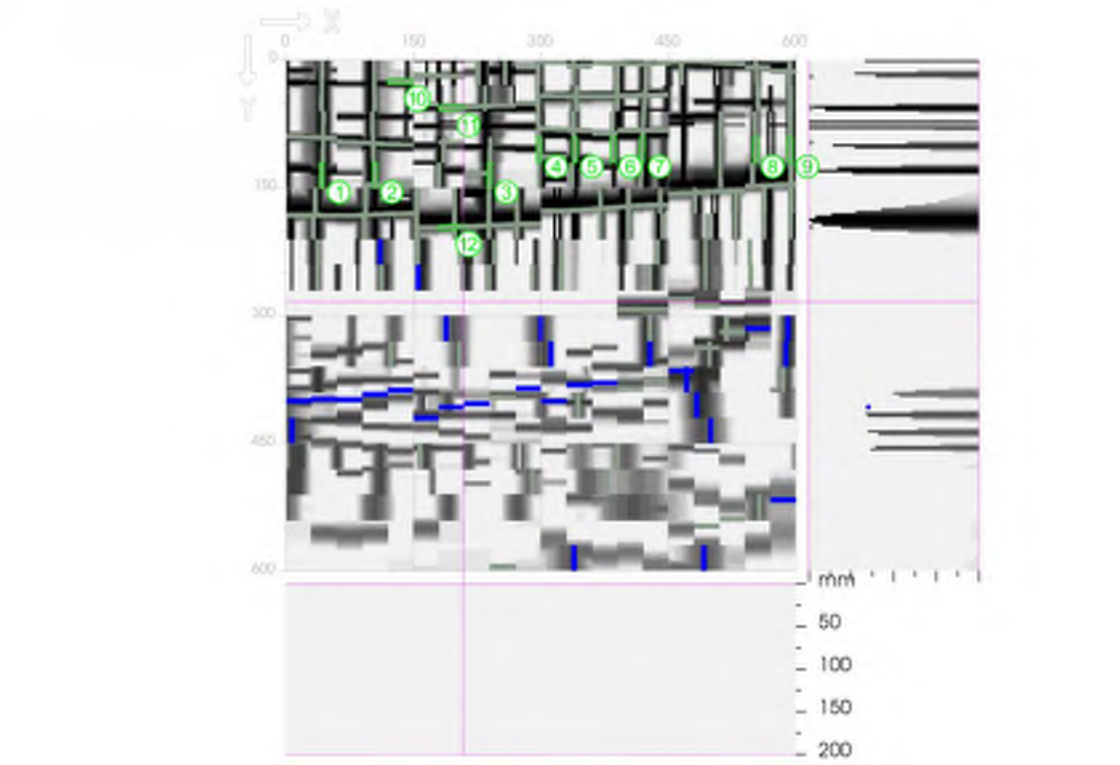
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 242 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	8 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	107 mm	195 mm	55 mm	25 mm	Vertical	High
2.	345 mm	225 mm	63 mm	25 mm	Vertical	High
3.	582 mm	225 mm	60 mm	25 mm	Vertical	High
4.	285 mm	64 mm	51 mm	8 mm	Horizontal	High
5.	225 mm	344 mm	47 mm	8 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	245.fscan
Serial number:	227190008
Date / Time:	2021-07-09 11:49:51
Comment:	-



x: 209 mm	y: 284 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 245	Object:	Slab
User:	BD		
Comment:	-		

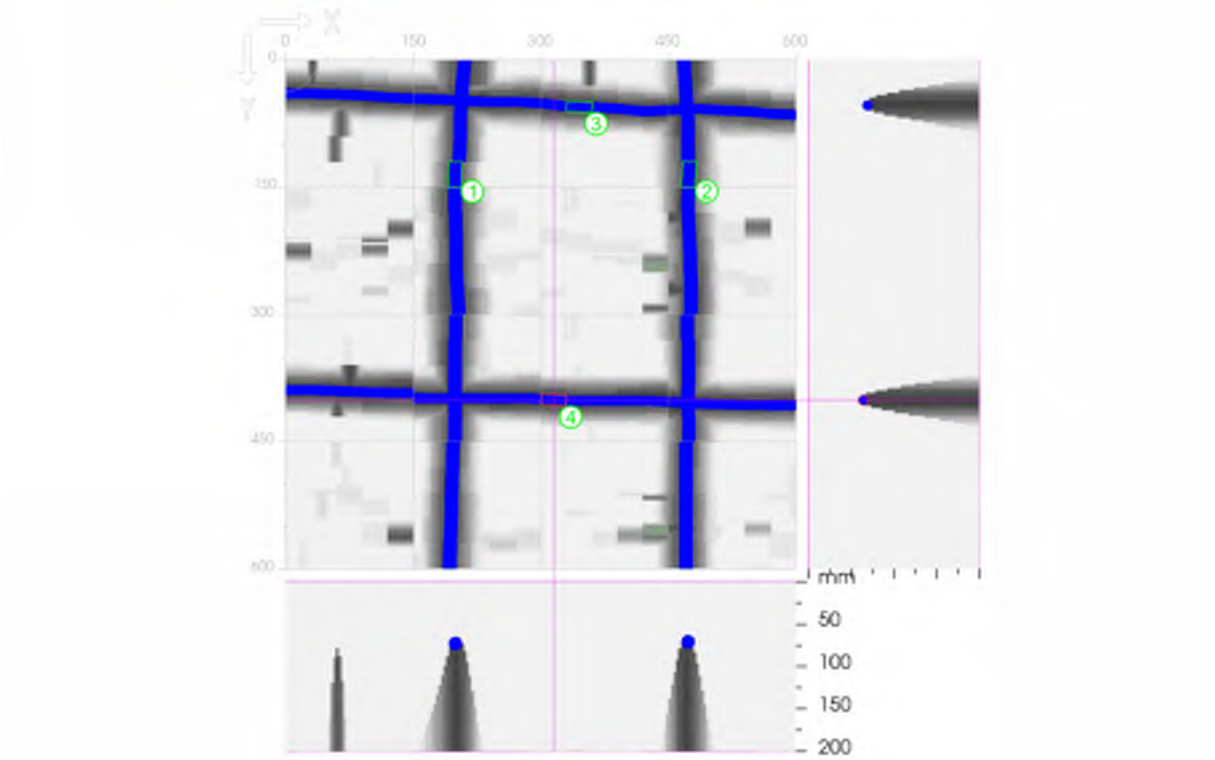
Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	6 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	43 mm	135 mm	7 mm	6 mm	Vertical	Low
2.	105 mm	135 mm	8 mm	6 mm	Vertical	Low
3.	239 mm	135 mm	0 mm	6 mm	Vertical	Low
4.	298 mm	105 mm	6 mm	6 mm	Vertical	Low
5.	340 mm	105 mm	7 mm	6 mm	Vertical	Low
6.	385 mm	105 mm	8 mm	6 mm	Vertical	Low
7.	420 mm	105 mm	0 mm	6 mm	Vertical	Low
8.	552 mm	105 mm	0 mm	6 mm	Vertical	Low
9.	593 mm	105 mm	0 mm	6 mm	Vertical	Low
10.	135 mm	25 mm	0 mm	6 mm	Horizontal	Low

11.	195 mm	57 mm	0 mm	6 mm	Horizontal	Low
12.	195 mm	196 mm	0 mm	6 mm	Horizontal	Low

.Hilti PROFIS Detection Report

Scan File:	246.fscan
Serial number:	227190008
Date / Time:	2021-07-08 14:17:21
Comment:	-



x: 315 mm	y: 401 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

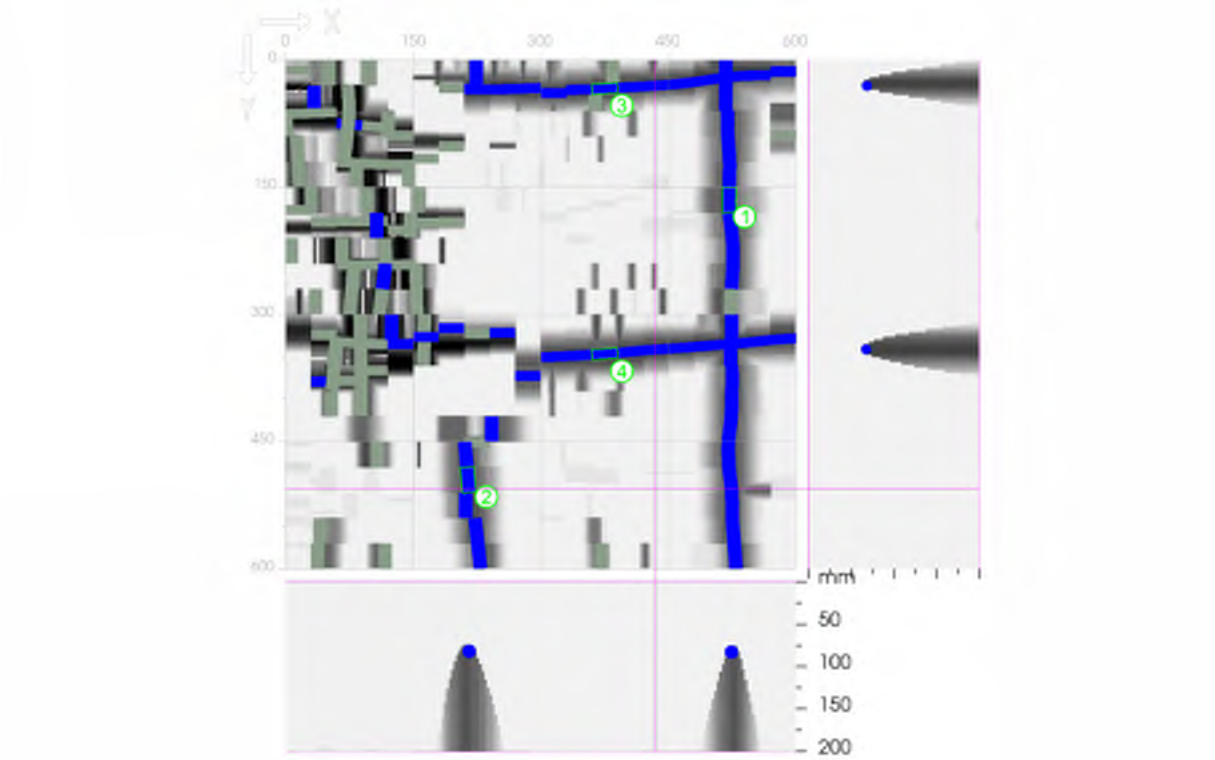
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 246	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	200 mm	135 mm	77 mm	16 mm	Vertical	High
2.	475 mm	135 mm	79 mm	16 mm	Vertical	High
3.	345 mm	55 mm	63 mm	12 mm	Horizontal	High
4.	315 mm	401 mm	58 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	247.fscan
Serial number:	227190008
Date / Time:	2021-07-07 17:27:38
Comment:	-



x: 434 mm	y: 505 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

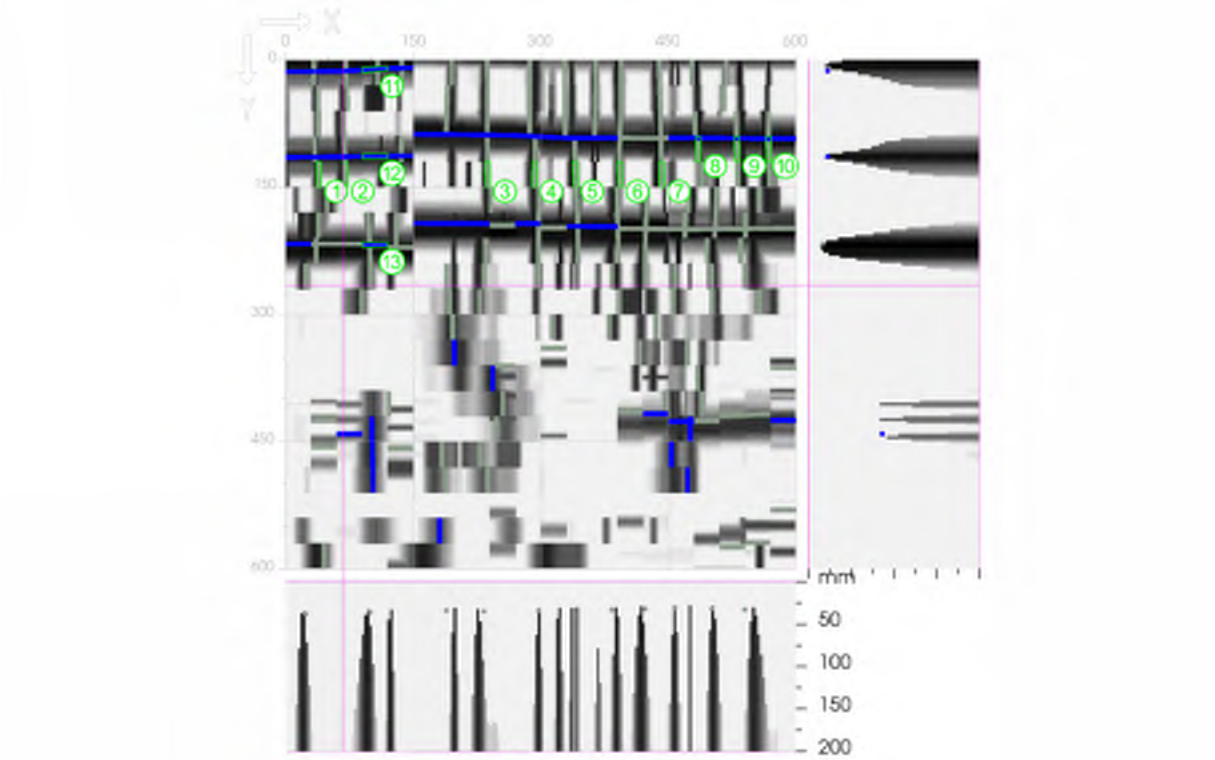
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 247	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	519 mm	165 mm	78 mm	16 mm	Vertical	High
2.	216 mm	495 mm	74 mm	16 mm	Vertical	High
3.	375 mm	34 mm	61 mm	12 mm	Horizontal	High
4.	375 mm	347 mm	62 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	248.fscan
Serial number:	227190008
Date / Time:	2021-07-09 13:02:57
Comment:	-



x: 67 mm	y: 266 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 248	Object:	Slab
User:	BD		
Comment:	-		

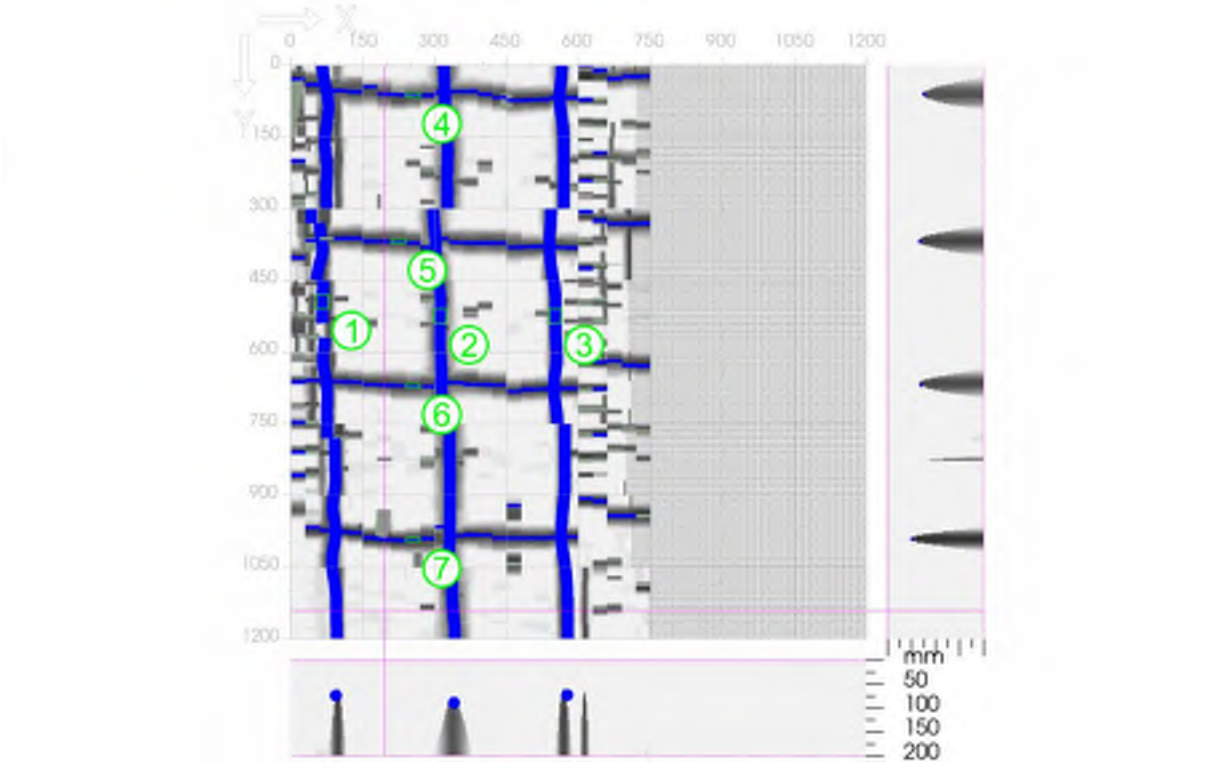
Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	6 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	39 mm	135 mm	29 mm	6 mm	Vertical	Low
2.	71 mm	135 mm	30 mm	6 mm	Vertical	Low
3.	238 mm	135 mm	27 mm	6 mm	Vertical	Low
4.	292 mm	135 mm	25 mm	6 mm	Vertical	Low
5.	340 mm	135 mm	25 mm	6 mm	Vertical	Low
6.	394 mm	135 mm	24 mm	6 mm	Vertical	Low
7.	442 mm	135 mm	24 mm	6 mm	Vertical	Low
8.	485 mm	105 mm	25 mm	6 mm	Vertical	Low
9.	531 mm	105 mm	25 mm	6 mm	Vertical	Low
10.	567 mm	105 mm	25 mm	6 mm	Vertical	Low

11.	105 mm	11 mm	19 mm	6 mm	Horizontal	High
12.	105 mm	114 mm	19 mm	6 mm	Horizontal	High
13.	105 mm	218 mm	19 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	249 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-07-07 14:42:12
Comment:	-



x: 196 mm	y: 1141 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

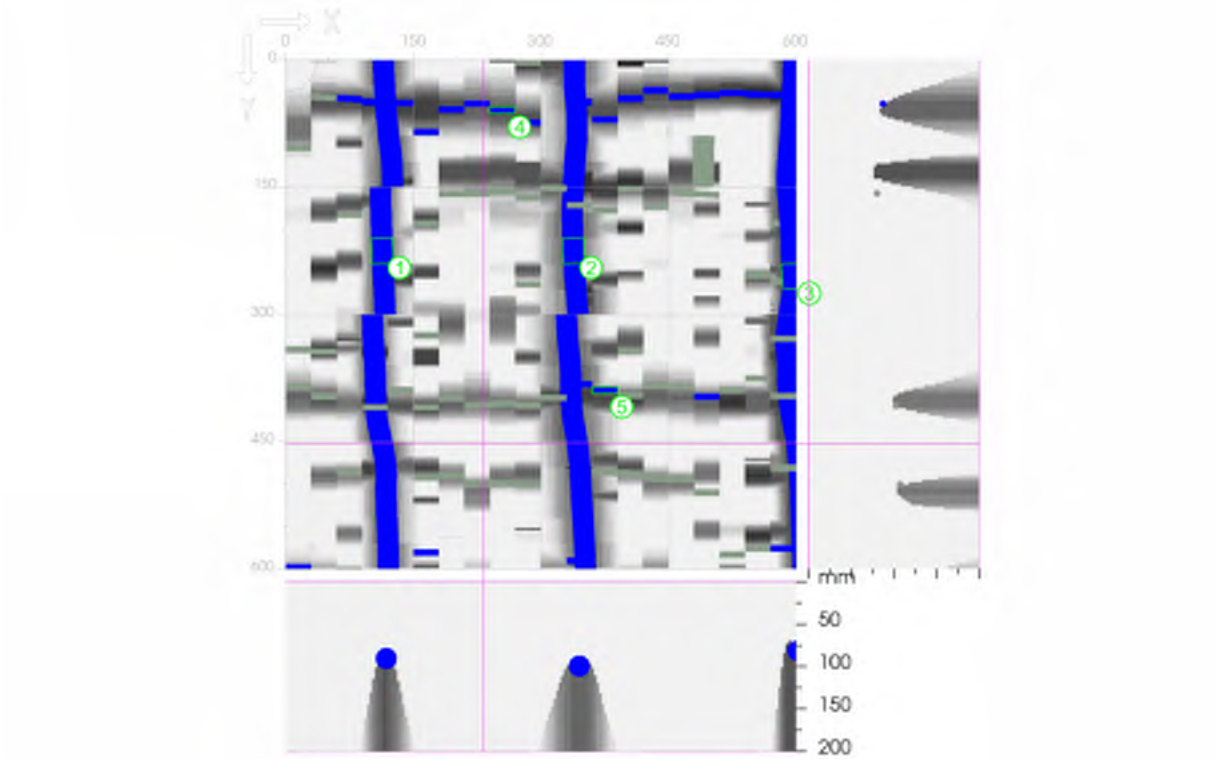
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 249 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	8 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	66 mm	495 mm	70 mm	25 mm	Vertical	High
2.	312 mm	525 mm	80 mm	25 mm	Vertical	High
3.	552 mm	525 mm	64 mm	25 mm	Vertical	High
4.	255 mm	63 mm	72 mm	8 mm	Horizontal	High
5.	225 mm	369 mm	64 mm	8 mm	Horizontal	High
6.	255 mm	671 mm	69 mm	8 mm	Horizontal	High
7.	255 mm	993 mm	59 mm	8 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	249 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-07-07 15:00:16
Comment:	-



x: 233 mm	y: 452 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

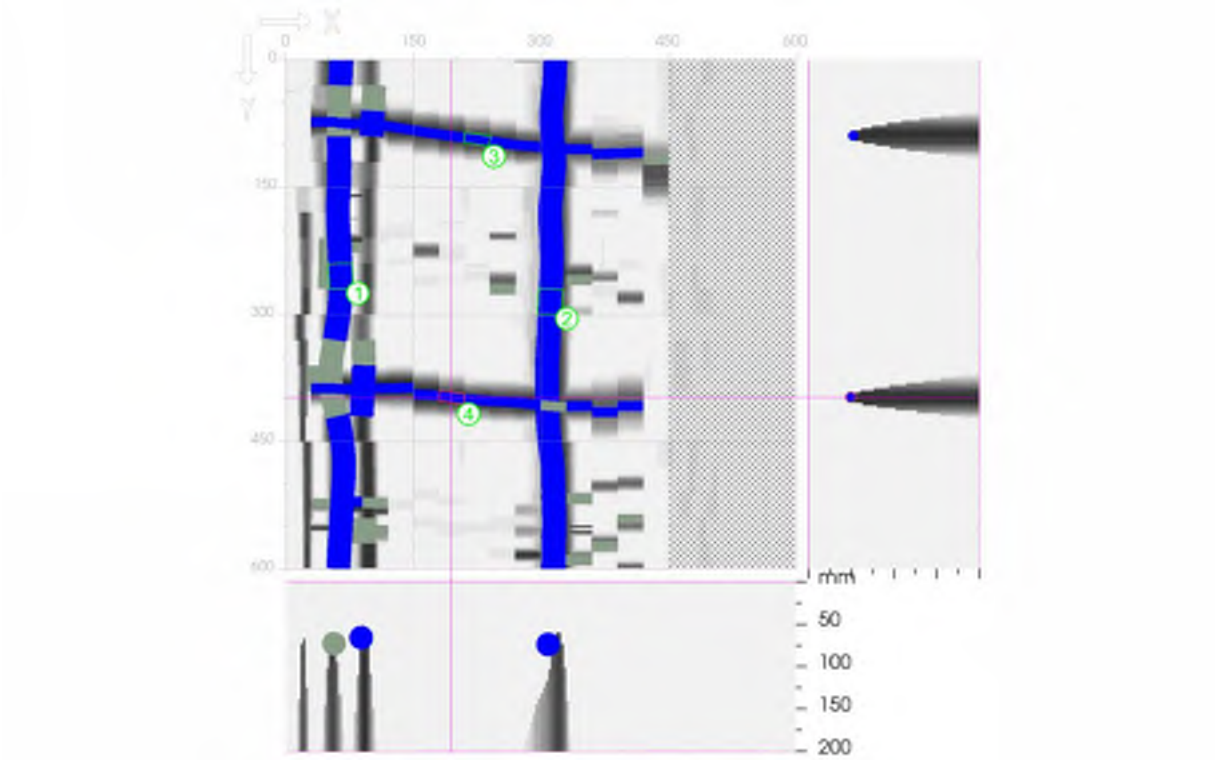
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 249 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	8 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	114 mm	225 mm	80 mm	25 mm	Vertical	High
2.	339 mm	225 mm	88 mm	25 mm	Vertical	High
3.	595 mm	255 mm	69 mm	25 mm	Vertical	High
4.	255 mm	59 mm	73 mm	8 mm	Horizontal	High
5.	375 mm	389 mm	66 mm	8 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	250 - North Face.fscan
Serial number:	227190008
Date / Time:	2021-07-07 14:31:00
Comment:	-



x: 195 mm	y: 398 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

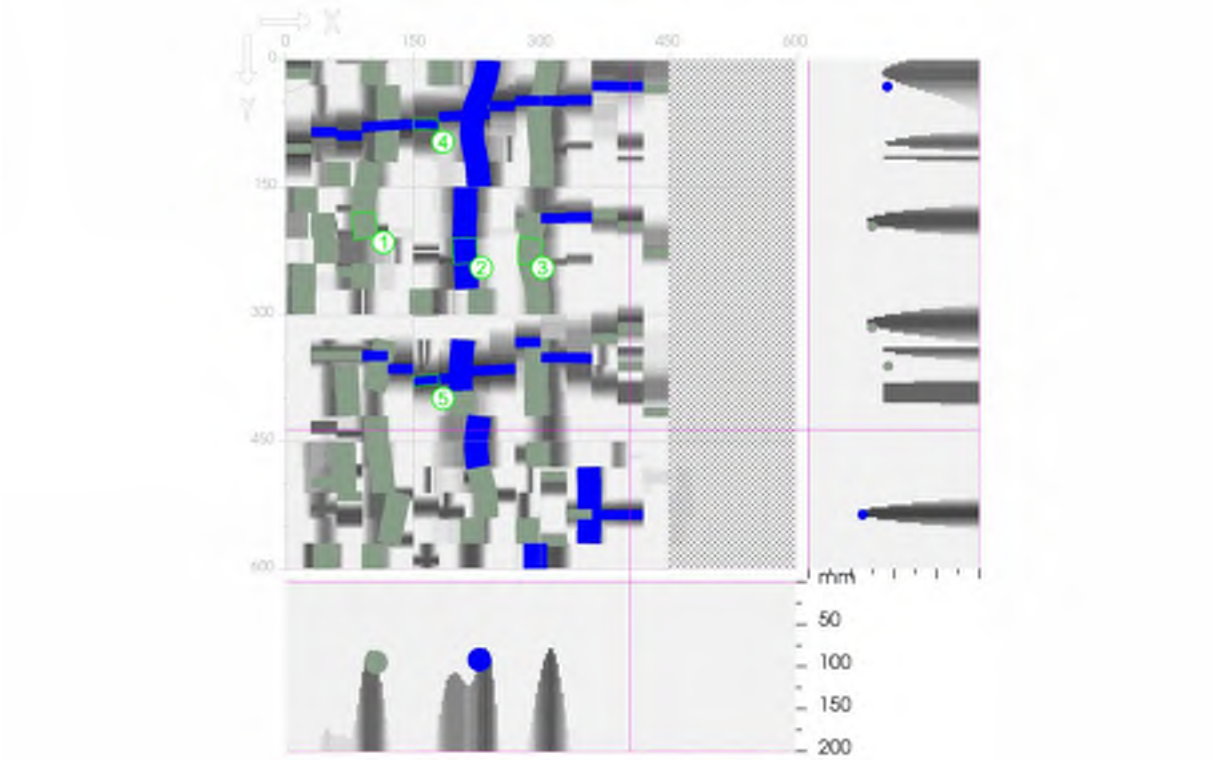
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 250 North Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	65 mm	255 mm	56 mm	28 mm	Vertical	High
2.	310 mm	285 mm	58 mm	28 mm	Vertical	High
3.	225 mm	94 mm	49 mm	12 mm	Horizontal	High
4.	195 mm	398 mm	43 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	250 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-07-07 14:27:50
Comment:	-



x: 405 mm	y: 436 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

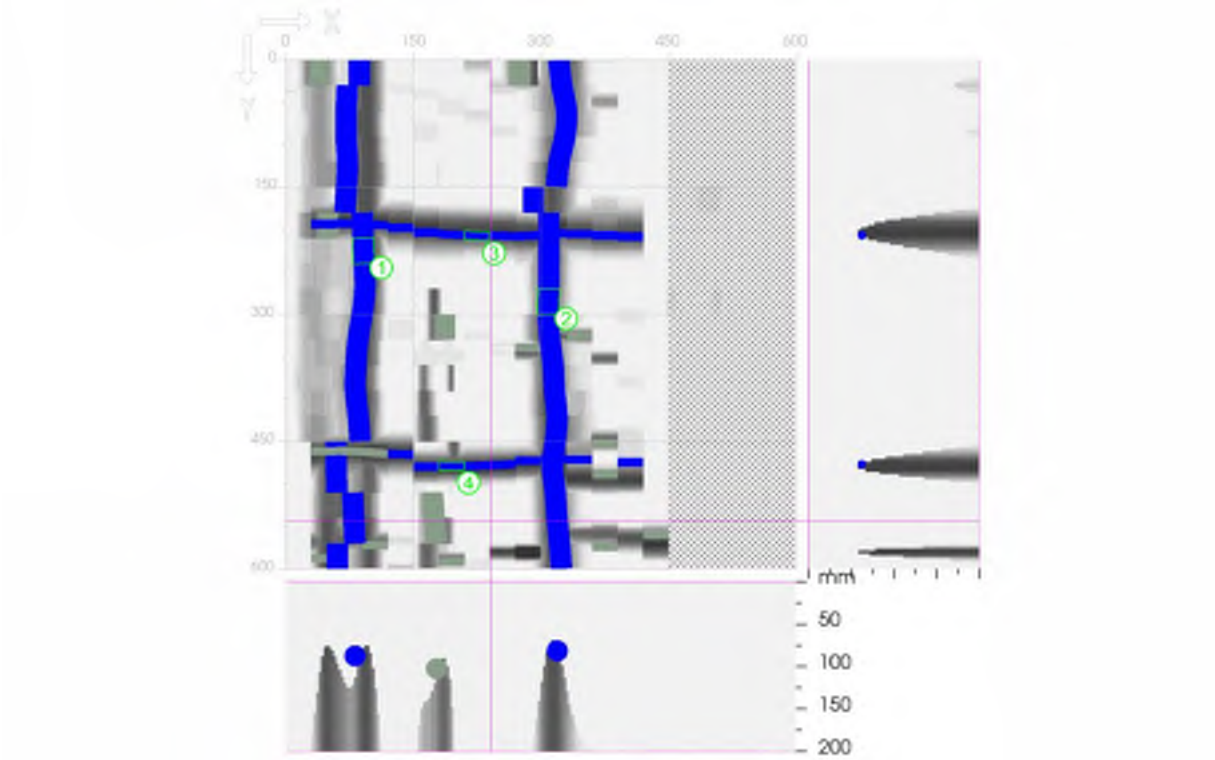
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 250 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	95 mm	195 mm	78 mm	28 mm	Vertical	Low
2.	210 mm	225 mm	77 mm	28 mm	Vertical	High
3.	282 mm	225 mm	101 mm	28 mm	Vertical	Low
4.	165 mm	77 mm	67 mm	12 mm	Horizontal	High
5.	165 mm	379 mm	65 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	251 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-07-08 17:33:36
Comment:	-



x: 241 mm	y: 543 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

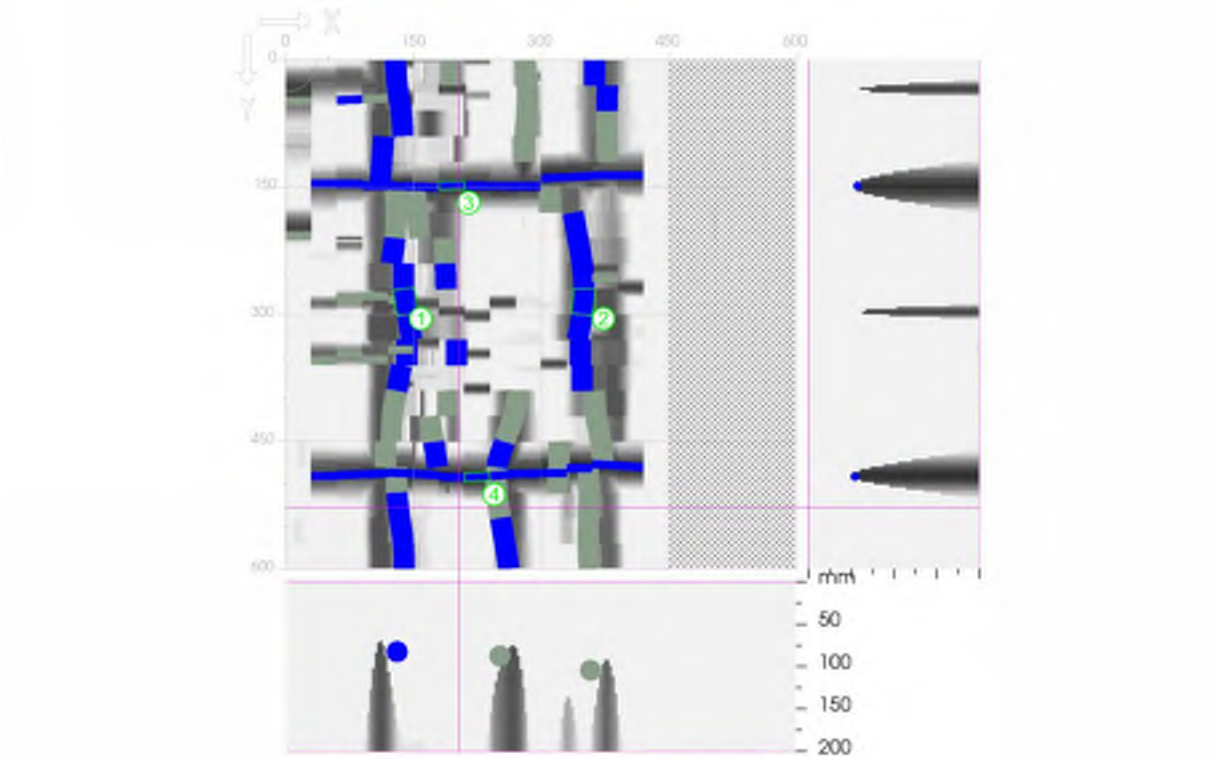
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 251 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	92 mm	225 mm	70 mm	25 mm	Vertical	High
2.	310 mm	285 mm	66 mm	25 mm	Vertical	High
3.	225 mm	208 mm	65 mm	10 mm	Horizontal	High
4.	195 mm	478 mm	59 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	251 -South Face.fscan
Serial number:	227190008
Date / Time:	2021-07-08 17:35:43
Comment:	-



x: 204 mm	y: 528 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

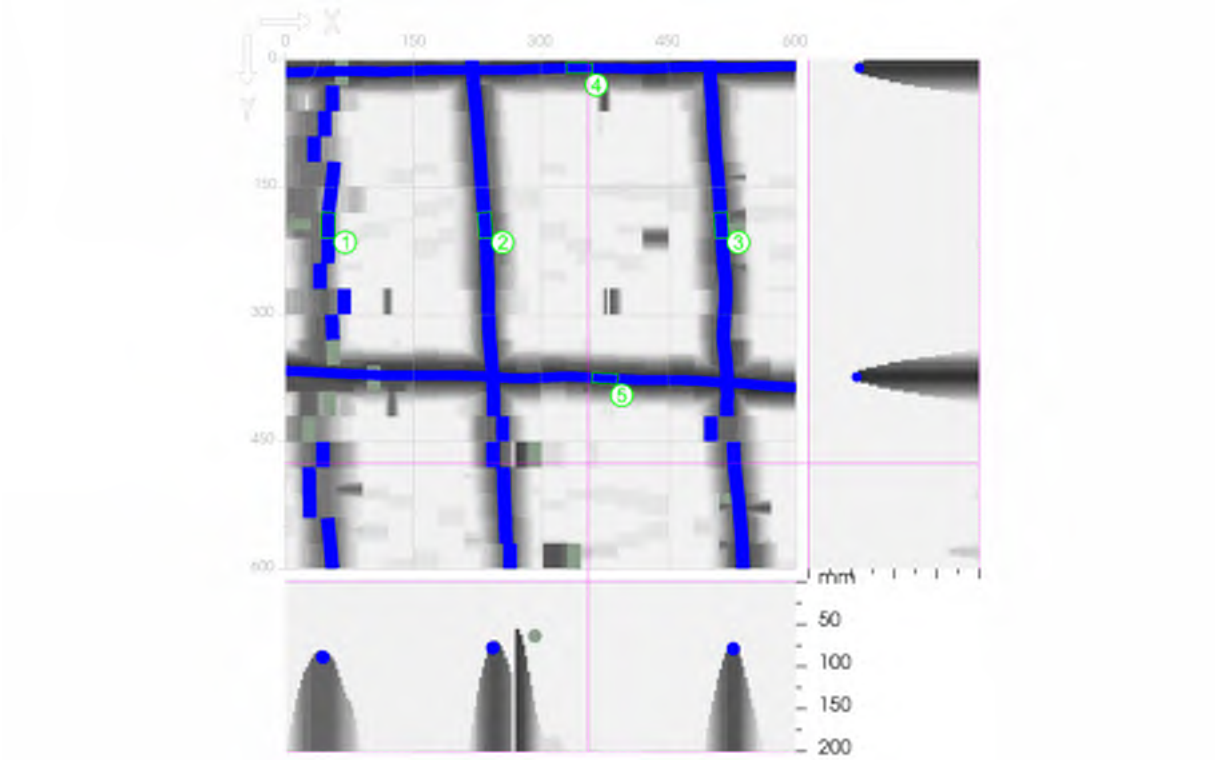
Project name:	CIS - L4	Customer:	CIS Tower
Location:	Level 4 Loc 251 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	25 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	139 mm	285 mm	68 mm	25 mm	Vertical	High
2.	353 mm	285 mm	74 mm	25 mm	Vertical	High
3.	195 mm	148 mm	52 mm	10 mm	Horizontal	High
4.	225 mm	492 mm	48 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	256.fscan
Serial number:	227190008
Date / Time:	2021-08-18 14:55:55
Comment:	-



x: 356 mm	y: 476 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

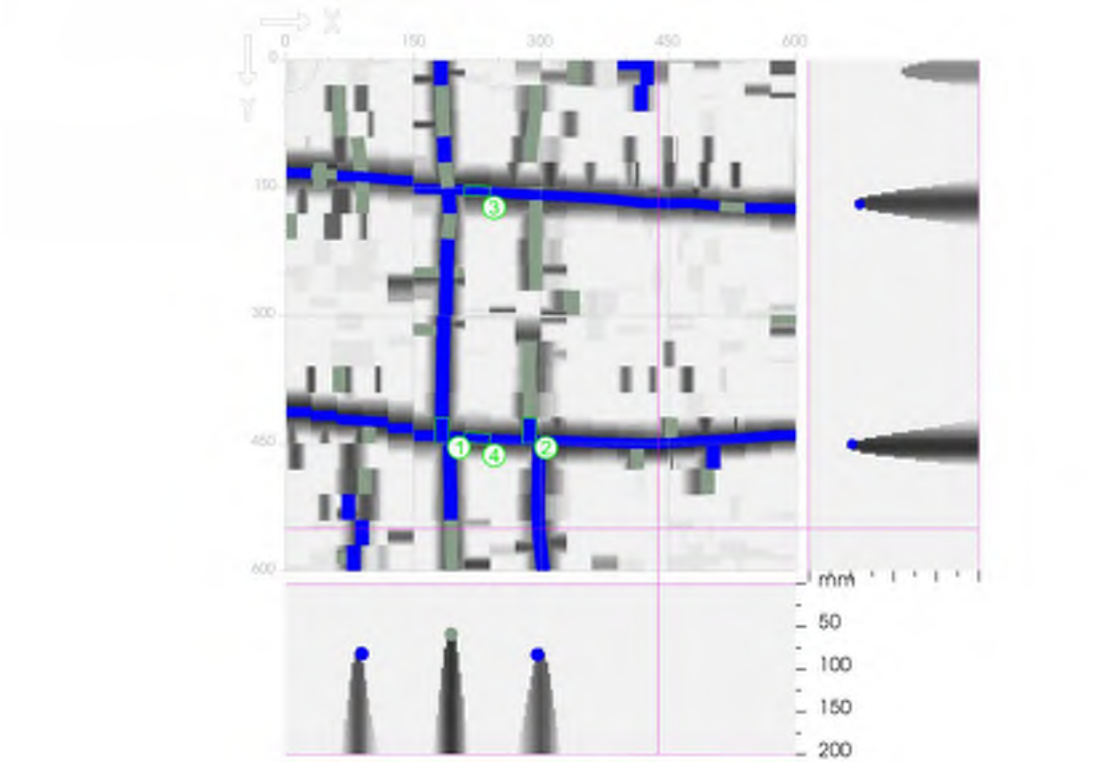
Project name:	CIS - L5	Customer:	CIS Tower
Location:	Level 5 Loc 256	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	50 mm	195 mm	97 mm	16 mm	Vertical	High
2.	235 mm	195 mm	72 mm	16 mm	Vertical	High
3.	512 mm	195 mm	71 mm	16 mm	Vertical	High
4.	345 mm	10 mm	53 mm	12 mm	Horizontal	High
5.	375 mm	375 mm	51 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	257.fscan
Serial number:	227190008
Date / Time:	2021-08-18 15:00:44
Comment:	-



x: 438 mm	y: 550 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

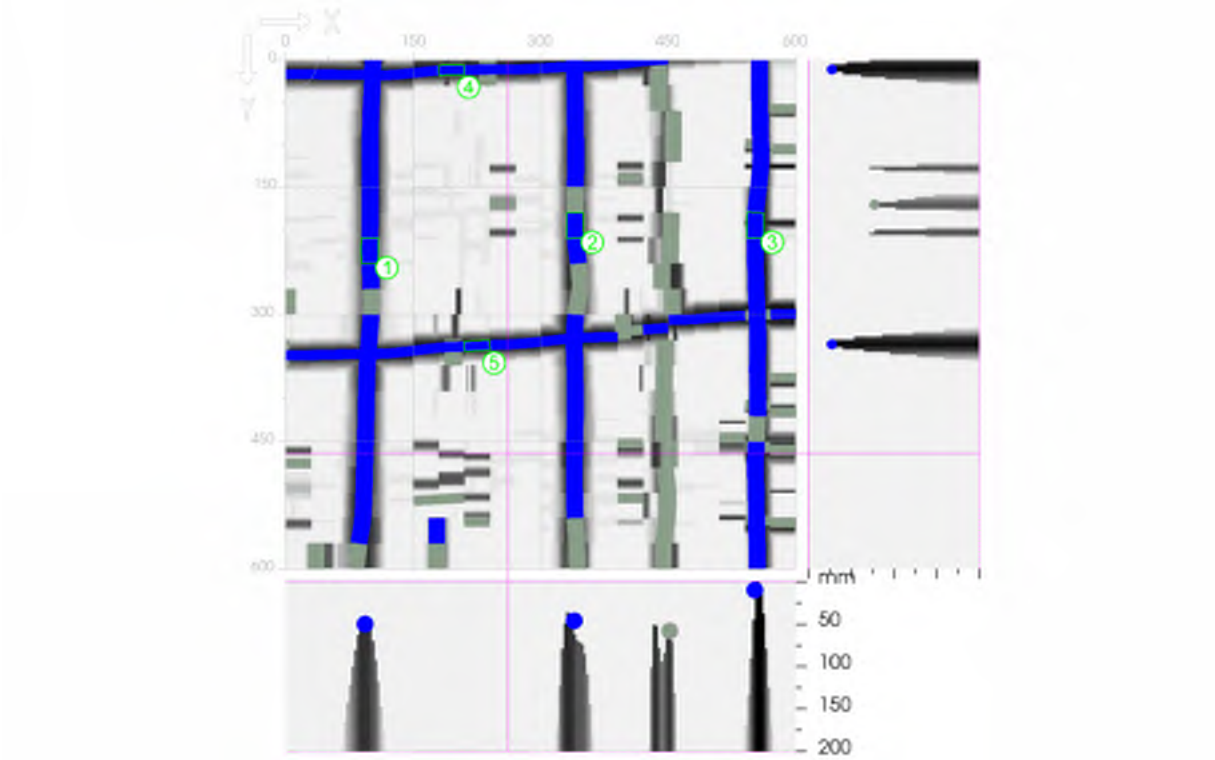
Project name:	CIS - L5	Customer:	CIS Tower
Location:	Level 5 Loc 257	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	184 mm	435 mm	49 mm	16 mm	Vertical	High
2.	286 mm	435 mm	74 mm	16 mm	Vertical	High
3.	225 mm	153 mm	52 mm	12 mm	Horizontal	High
4.	225 mm	444 mm	48 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	258.fscan
Serial number:	227190008
Date / Time:	2021-08-18 13:47:24
Comment:	-



x: 261 mm	y: 464 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

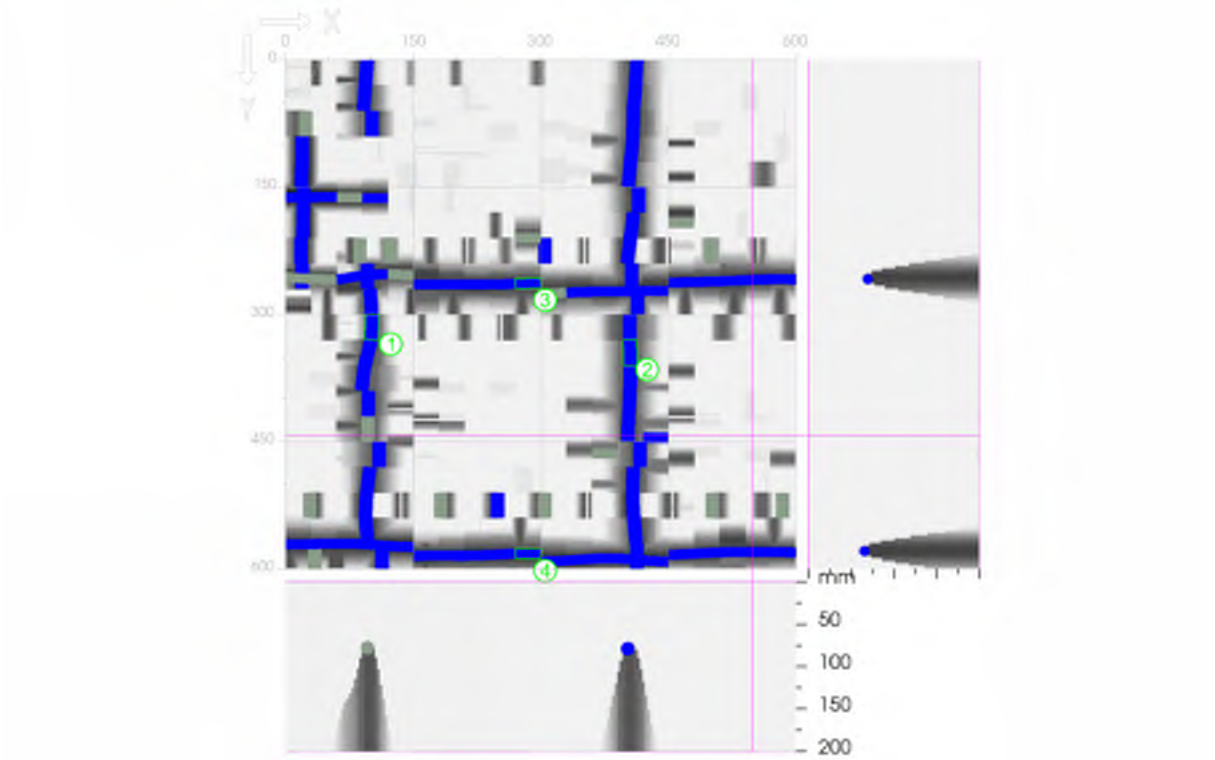
Project name:	CIS - L5	Customer:	CIS Tower
Location:	Level 5 Loc 258	Object:	Wall
User:	BD		
Comment:	Main bar size is 19mm		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	20 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	99 mm	225 mm	37 mm	20 mm	Vertical	High
2.	340 mm	195 mm	33 mm	20 mm	Vertical	High
3.	552 mm	195 mm	2 mm	20 mm	Vertical	High
4.	195 mm	12 mm	22 mm	12 mm	Horizontal	High
5.	225 mm	337 mm	22 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	259.fscan
Serial number:	227190008
Date / Time:	2021-08-18 13:08:50
Comment:	-



x: 549 mm	y: 443 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

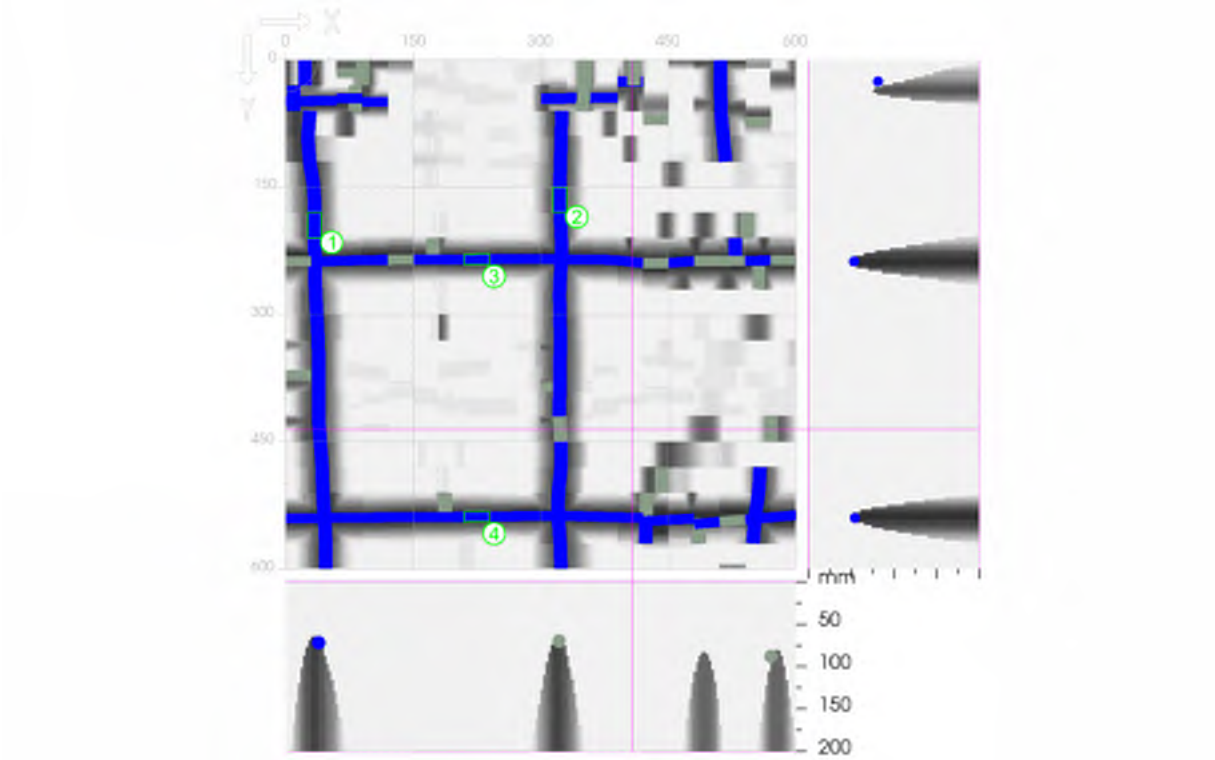
Project name:	CIS - L5	Customer:	CIS Tower
Location:	Level 5 Loc 259	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	103 mm	315 mm	64 mm	16 mm	Vertical	High
2.	405 mm	345 mm	71 mm	16 mm	Vertical	High
3.	285 mm	263 mm	61 mm	12 mm	Horizontal	High
4.	285 mm	582 mm	56 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	263.fscan
Serial number:	227190008
Date / Time:	2021-08-18 14:41:43
Comment:	-



x: 407 mm	y: 435 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

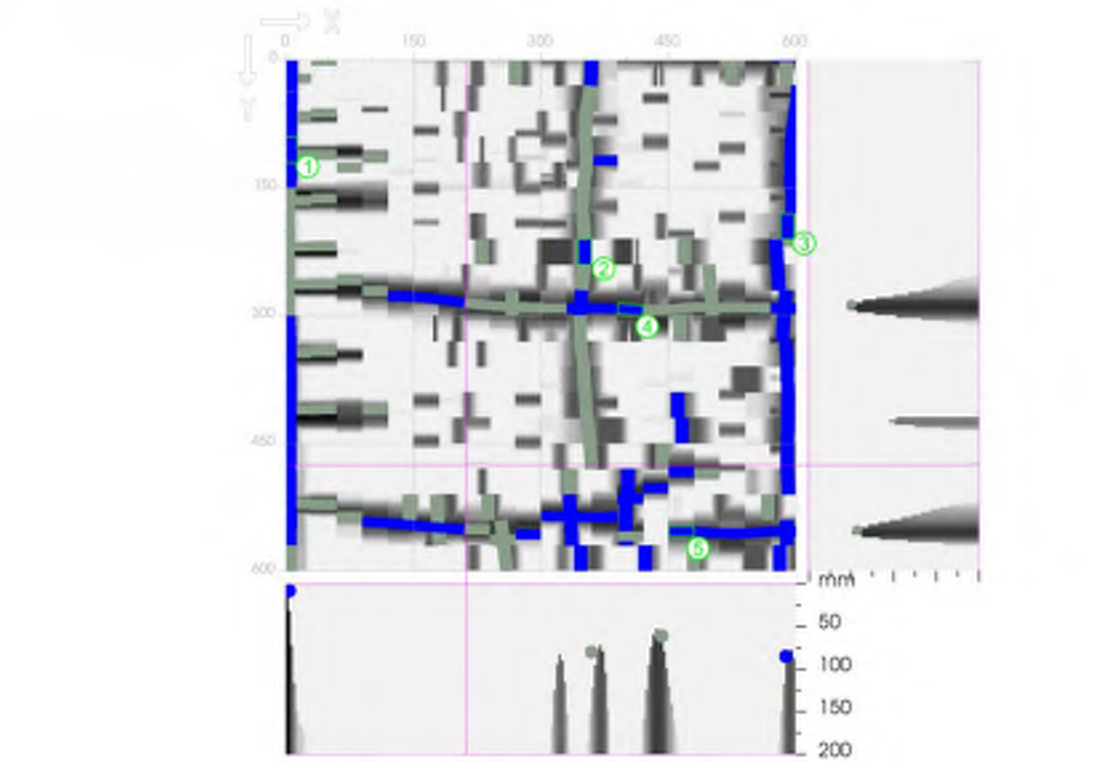
Project name:	CIS - L5	Customer:	CIS Tower
Location:	Level 5 Loc 263	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	34 mm	195 mm	60 mm	16 mm	Vertical	High
2.	322 mm	165 mm	66 mm	16 mm	Vertical	High
3.	225 mm	235 mm	49 mm	12 mm	Horizontal	High
4.	225 mm	538 mm	51 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	264.fscan
Serial number:	227190008
Date / Time:	2021-08-18 13:15:46
Comment:	-



x: 212 mm	y: 475 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

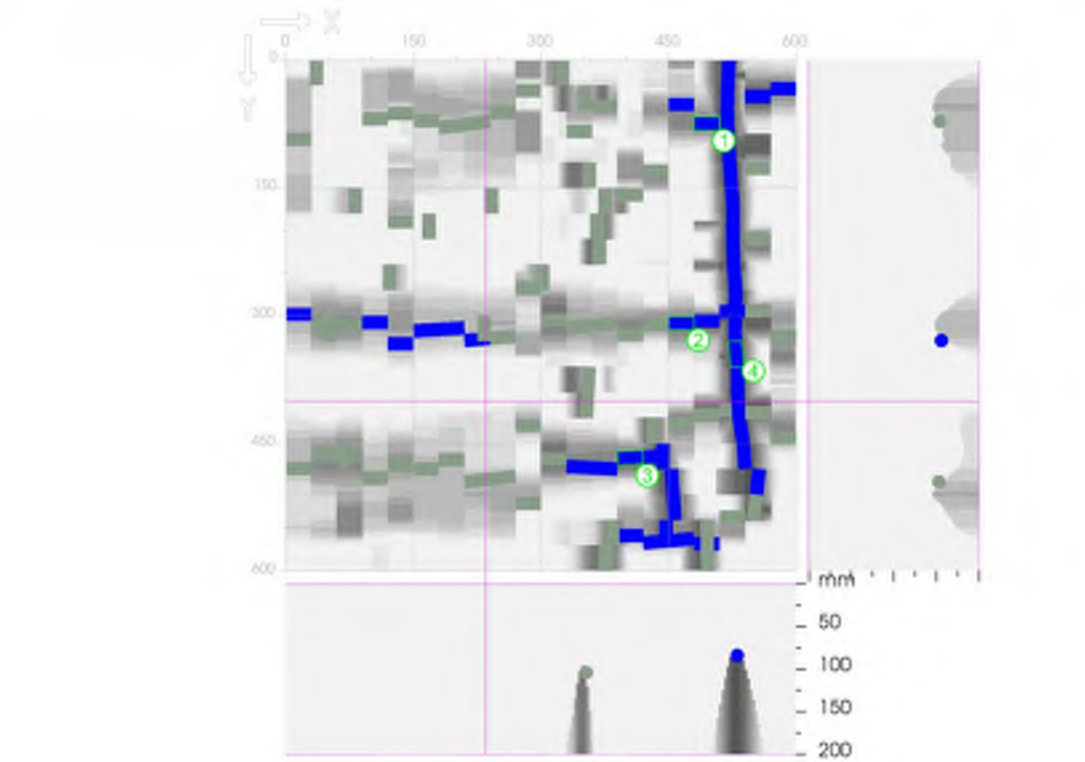
Project name:	CIS - L5	Customer:	CIS Tower
Location:	Level 5 Loc 264	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	5 mm	105 mm	1 mm	16 mm	Vertical	High
2.	354 mm	225 mm	66 mm	16 mm	Vertical	High
3.	590 mm	195 mm	66 mm	16 mm	Vertical	High
4.	405 mm	293 mm	46 mm	12 mm	Horizontal	High
5.	465 mm	553 mm	58 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	269.fscan
Serial number:	227190008
Date / Time:	2021-07-06 13:08:08
Comment:	-



x: 235 mm	y: 400 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

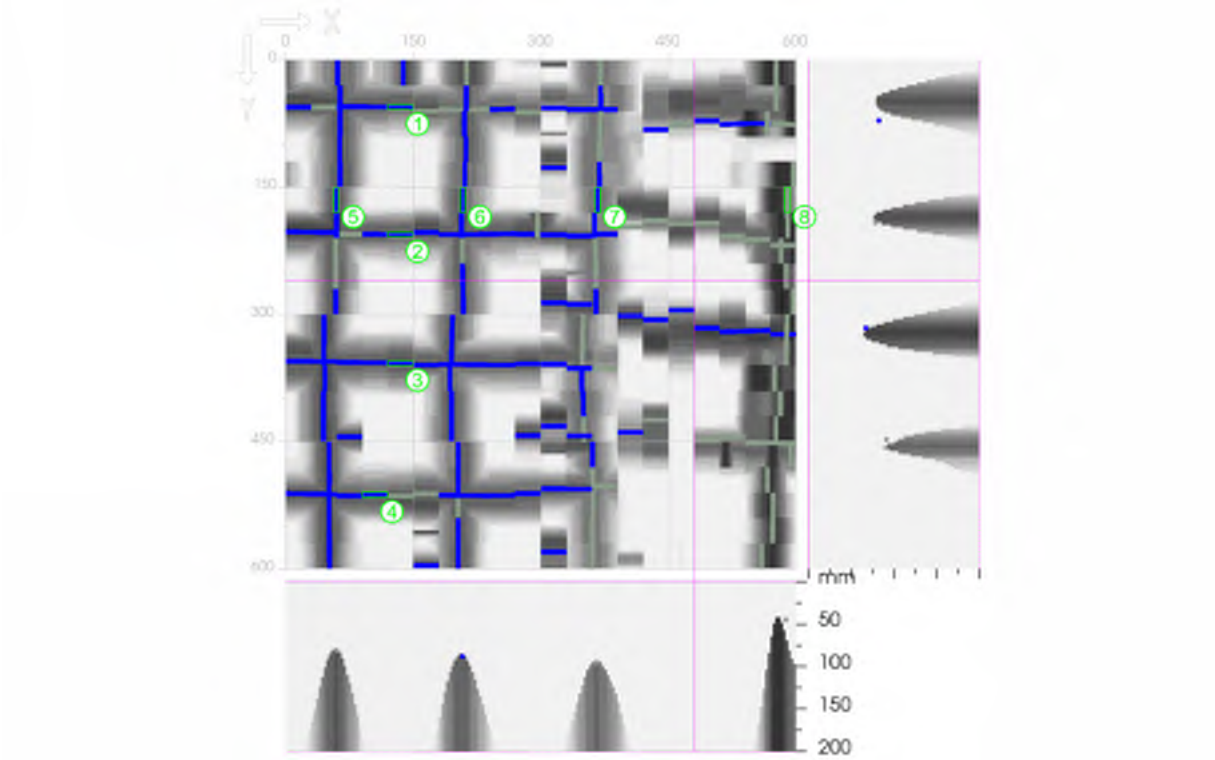
Project name:	CIS - L6	Customer:	CIS Tower
Location:	Level 6 Loc 269	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	16 mm +/- 0 mm	Type:	Input
Ø Vertical:	16 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	495 mm	75 mm	108 mm	16 mm	Horizontal	High
2.	465 mm	309 mm	105 mm	16 mm	Horizontal	High
3.	405 mm	468 mm	93 mm	16 mm	Horizontal	High
4.	530 mm	345 mm	70 mm	16 mm	Vertical	High

.Hilti PROFIS Detection Report

Scan File:	270.fscan
Serial number:	227190008
Date / Time:	2021-07-06 12:53:58
Comment:	-



x: 480 mm	y: 260 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

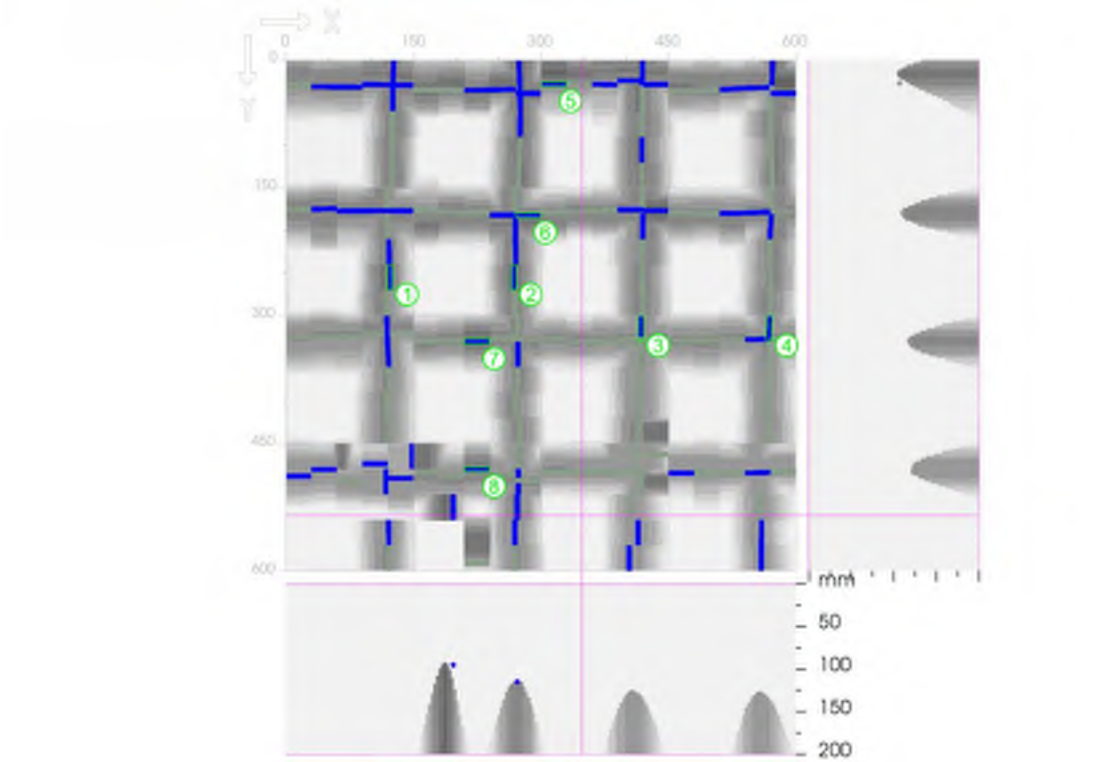
Project name:	CIS - L6	Customer:	CIS Tower
Location:	Level 6 Loc 270	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	6 mm +/- 0 mm	Type:	Input
Detection mode:	Auto		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	135 mm	56 mm	86 mm	6 mm	Horizontal	High
2.	135 mm	206 mm	82 mm	6 mm	Horizontal	High
3.	135 mm	358 mm	79 mm	6 mm	Horizontal	High
4.	105 mm	513 mm	88 mm	6 mm	Horizontal	High
5.	59 mm	165 mm	78 mm	6 mm	Vertical	High
6.	208 mm	165 mm	85 mm	6 mm	Vertical	High
7.	367 mm	165 mm	93 mm	6 mm	Vertical	High
8.	590 mm	165 mm	42 mm	6 mm	Vertical	Low

.Hilti PROFIS Detection Report

Scan File:	286.fscan
Serial number:	227190008
Date / Time:	2021-06-30 17:16:25
Comment:	-



x: 348 mm	y: 534 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

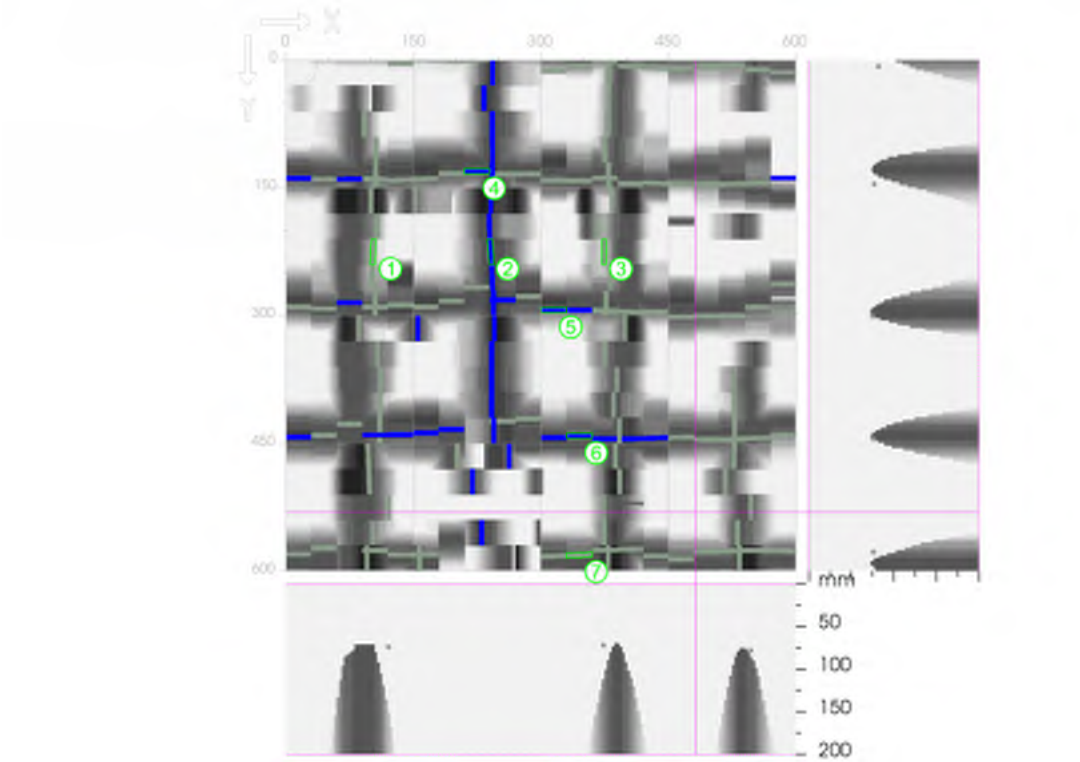
Project name:	CIS - L9	Customer:	CIS Tower
Location:	Level 9 Location 286	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	6 mm +/- 0 mm	Type:	Input
Detection mode:	Auto		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	123 mm	255 mm	101 mm	6 mm	Vertical	High
2.	268 mm	255 mm	100 mm	6 mm	Vertical	High
3.	418 mm	315 mm	116 mm	6 mm	Vertical	High
4.	569 mm	315 mm	118 mm	6 mm	Vertical	High
5.	315 mm	28 mm	92 mm	6 mm	Horizontal	High
6.	285 mm	182 mm	105 mm	6 mm	Horizontal	High
7.	225 mm	330 mm	95 mm	6 mm	Horizontal	High
8.	225 mm	480 mm	106 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	287.fscan
Serial number:	227190008
Date / Time:	2021-06-30 17:11:04
Comment:	-



x: 482 mm	y: 531 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

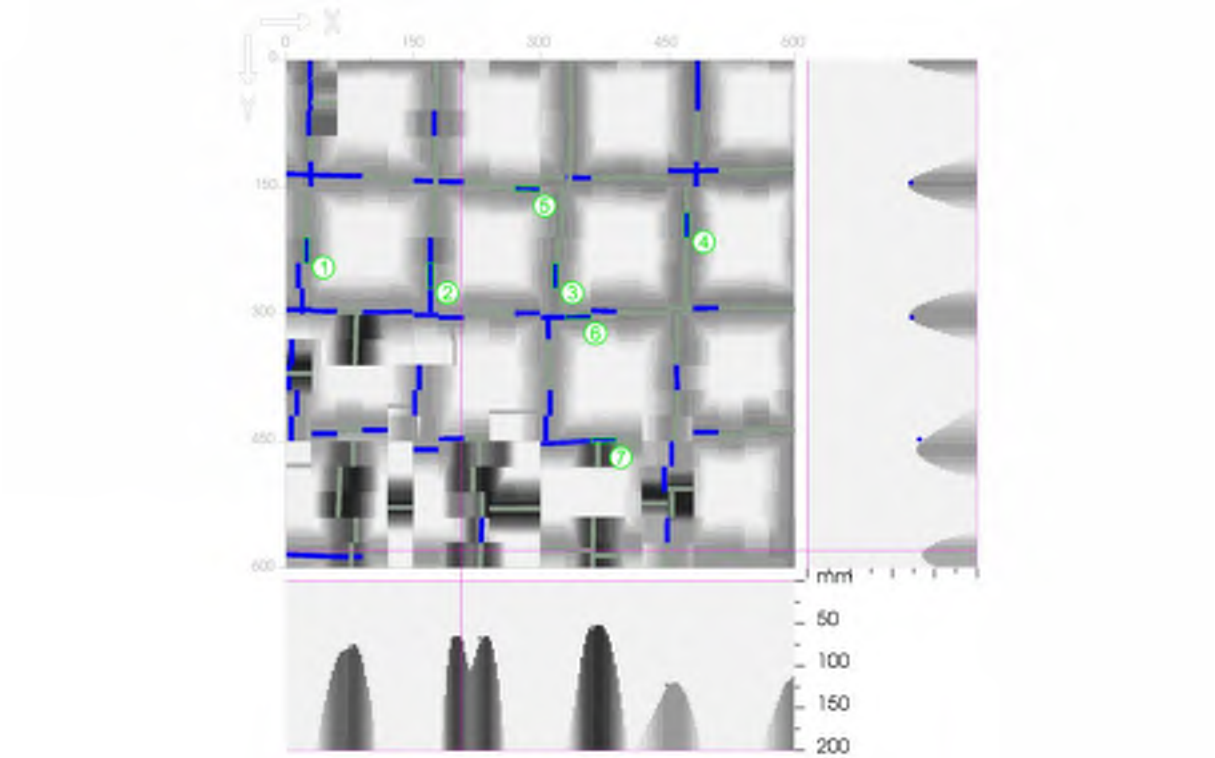
Project name:	CIS - L9	Customer:	CIS Tower
Location:	Level 9 Location 287	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	6 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	103 mm	225 mm	75 mm	6 mm	Vertical	Low
2.	241 mm	225 mm	66 mm	6 mm	Vertical	High
3.	374 mm	225 mm	76 mm	6 mm	Vertical	Low
4.	225 mm	130 mm	72 mm	6 mm	Horizontal	High
5.	315 mm	293 mm	63 mm	6 mm	Horizontal	High
6.	345 mm	441 mm	70 mm	6 mm	Horizontal	High
7.	345 mm	581 mm	71 mm	6 mm	Horizontal	Low

.Hilti PROFIS Detection Report

Scan File:	294.fscan
Serial number:	227190008
Date / Time:	2021-07-20 16:56:38
Comment:	-



x: 207 mm	y: 579 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

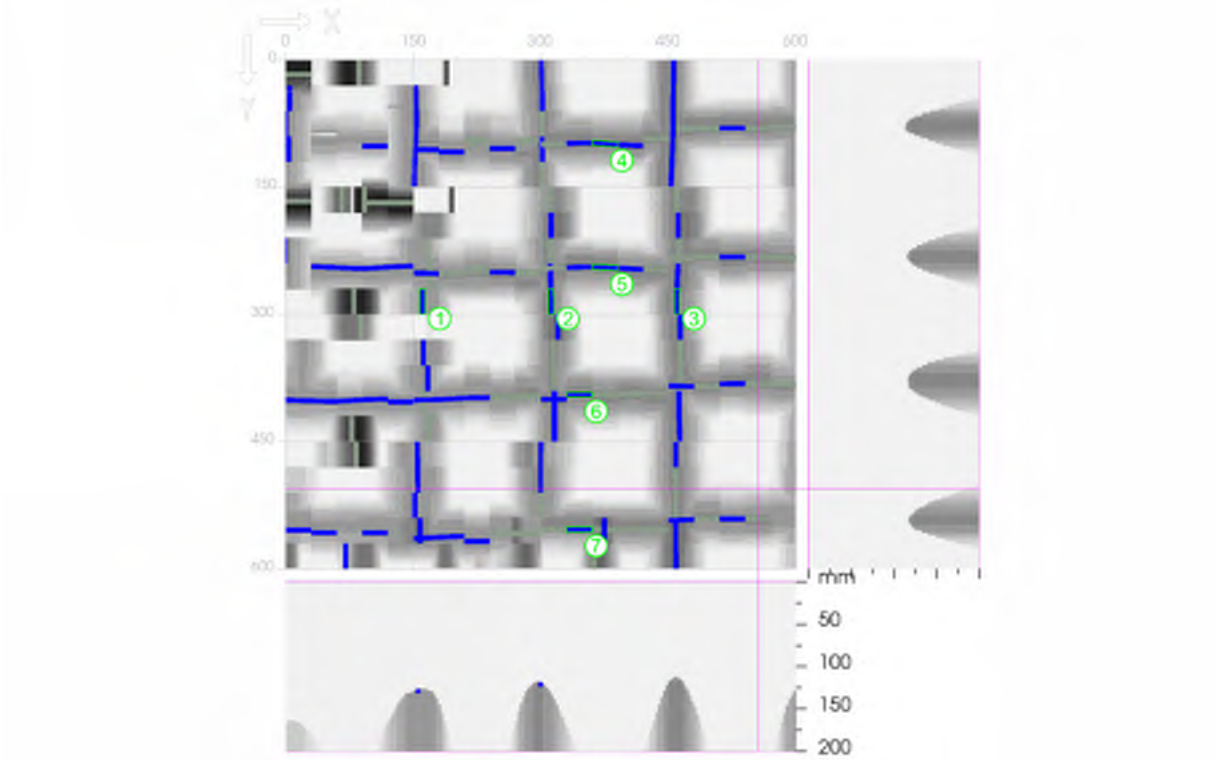
Project name:	CIS - L15	Customer:	CIS Tower
Location:	Level 15 Loc 294	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	6 mm +/- 0 mm	Type:	Input
Detection mode:	Auto		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	24 mm	225 mm	110 mm	6 mm	Vertical	High
2.	170 mm	255 mm	121 mm	6 mm	Vertical	High
3.	318 mm	255 mm	116 mm	6 mm	Vertical	High
4.	473 mm	195 mm	107 mm	6 mm	Vertical	High
5.	285 mm	152 mm	116 mm	6 mm	Horizontal	High
6.	345 mm	303 mm	117 mm	6 mm	Horizontal	High
7.	375 mm	449 mm	124 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	295.fscan
Serial number:	227190008
Date / Time:	2021-07-20 16:50:00
Comment:	-



x: 556 mm	y: 505 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

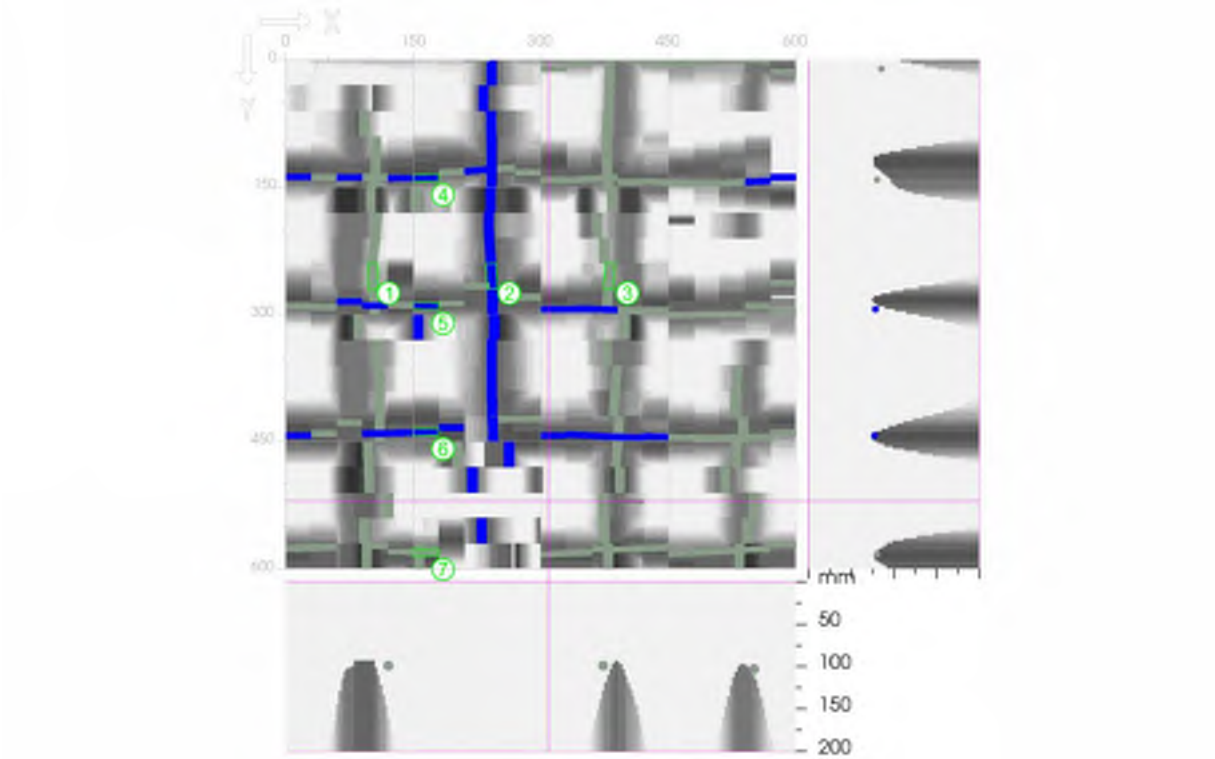
Project name:	CIS - L15	Customer:	CIS Tower
Location:	Level 15 Loc 295	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	6 mm +/- 0 mm	Type:	Input
Detection mode:	Auto		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	161 mm	285 mm	124 mm	6 mm	Vertical	High
2.	312 mm	285 mm	115 mm	6 mm	Vertical	High
3.	460 mm	285 mm	109 mm	6 mm	Vertical	High
4.	375 mm	99 mm	114 mm	6 mm	Horizontal	High
5.	375 mm	244 mm	114 mm	6 mm	Horizontal	High
6.	345 mm	394 mm	114 mm	6 mm	Horizontal	High
7.	345 mm	553 mm	116 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	287.fscan
Serial number:	227190008
Date / Time:	2021-06-30 17:11:04
Comment:	-



x: 309 mm	y: 520 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

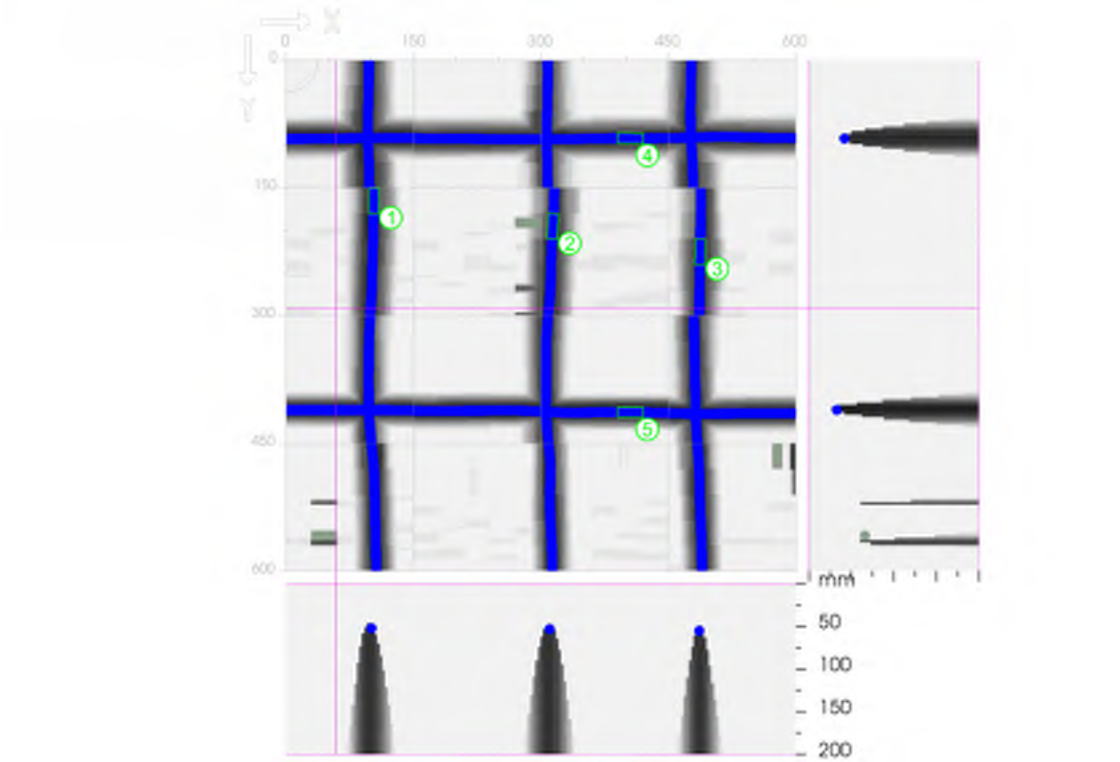
Project name:	CIS - L9	Customer:	CIS Tower
Location:	Level 9 Location 287	Object:	Top of Beam
User:	BD		
Comment:	-		

Ø Horizontal:	8 mm +/- 0 mm	Type:	Input
Ø Vertical:	12 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	101 mm	255 mm	95 mm	12 mm	Vertical	Low
2.	243 mm	255 mm	85 mm	12 mm	Vertical	High
3.	382 mm	255 mm	96 mm	12 mm	Vertical	Low
4.	165 mm	139 mm	74 mm	8 mm	Horizontal	High
5.	165 mm	290 mm	72 mm	8 mm	Horizontal	High
6.	165 mm	438 mm	71 mm	8 mm	Horizontal	High
7.	165 mm	581 mm	76 mm	8 mm	Horizontal	Low

.Hilti PROFIS Detection Report

Scan File:	298.fscan
Serial number:	227190008
Date / Time:	2021-06-29 11:38:04
Comment:	-



x: 59 mm	y: 291 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

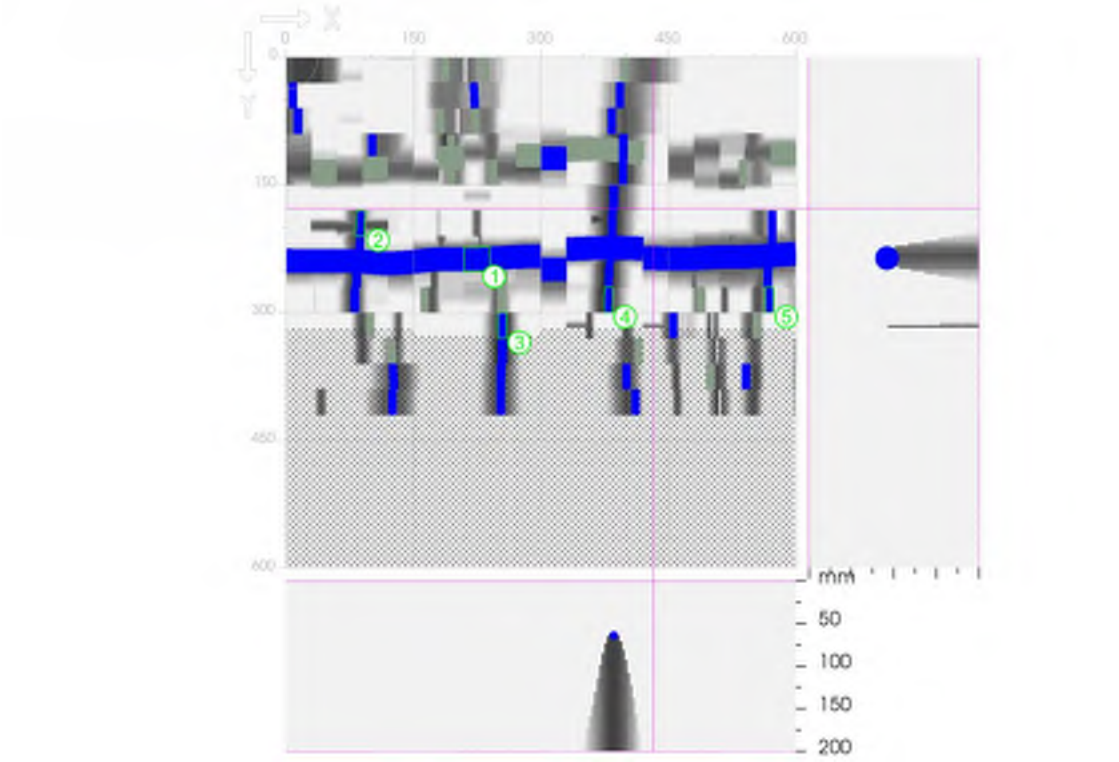
Project name:	CIS - L25	Customer:	CIS Tower
Location:	Level 25 Location 298	Object:	Wall
User:	BD		
Comment:	-		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	12 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	103 mm	165 mm	42 mm	12 mm	Vertical	High
2.	314 mm	195 mm	47 mm	12 mm	Vertical	High
3.	487 mm	225 mm	52 mm	12 mm	Vertical	High
4.	405 mm	92 mm	42 mm	12 mm	Horizontal	High
5.	405 mm	413 mm	28 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	302- Side.fscan
Serial number:	227190008
Date / Time:	2021-06-30 15:29:08
Comment:	-



x: 433 mm	y: 178 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

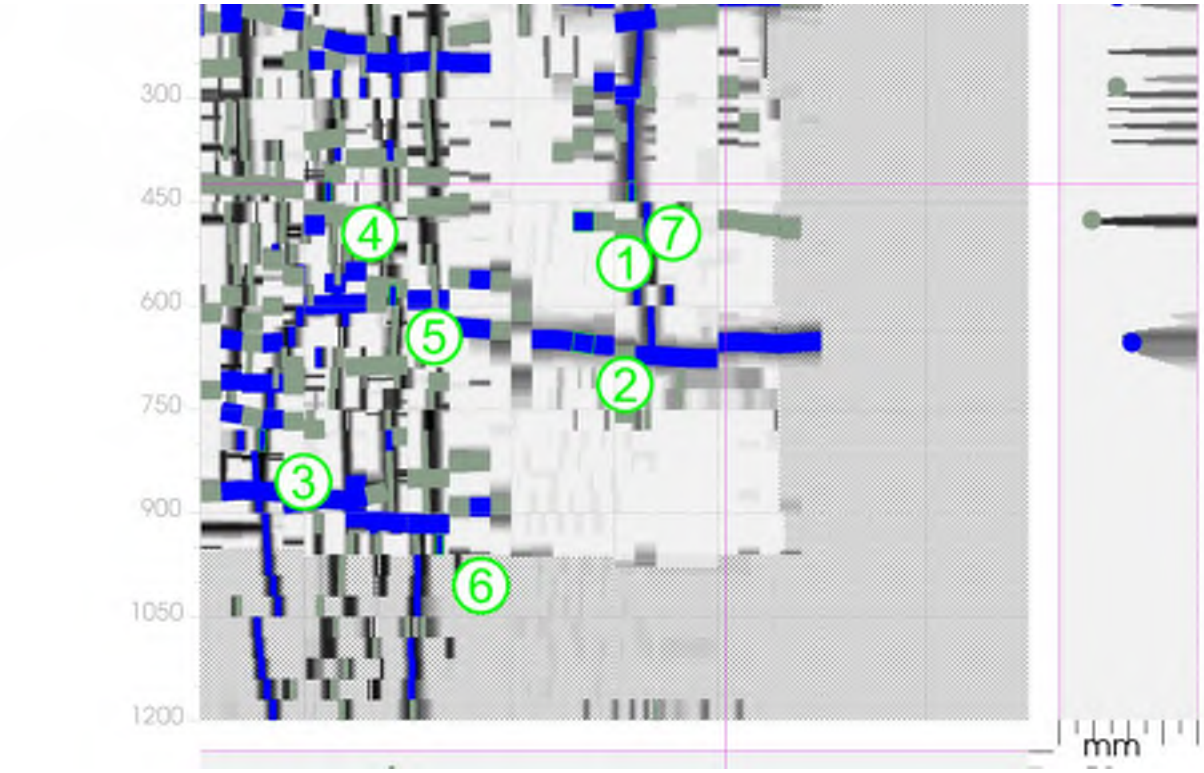
Project name:	CIS - L25	Customer:	CIS Tower
Location:	Level 25 Location 302 Side	Object:	Beam
User:	BD		
Comment:	-		

Ø Horizontal:	28 mm +/- 0 mm	Type:	Input
Ø Vertical:	10 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	225 mm	238 mm	70 mm	28 mm	Horizontal	High
2.	88 mm	195 mm	76 mm	10 mm	Vertical	High
3.	255 mm	315 mm	38 mm	10 mm	Vertical	High
4.	379 mm	285 mm	39 mm	10 mm	Vertical	High
5.	569 mm	285 mm	69 mm	10 mm	Vertical	High

.Hilti PROFIS Detection Report

Scan File:	302.fscan
Serial number:	227190008
Date / Time:	2021-06-30 15:24:40
Comment:	-



x: 762 mm	y: 424 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

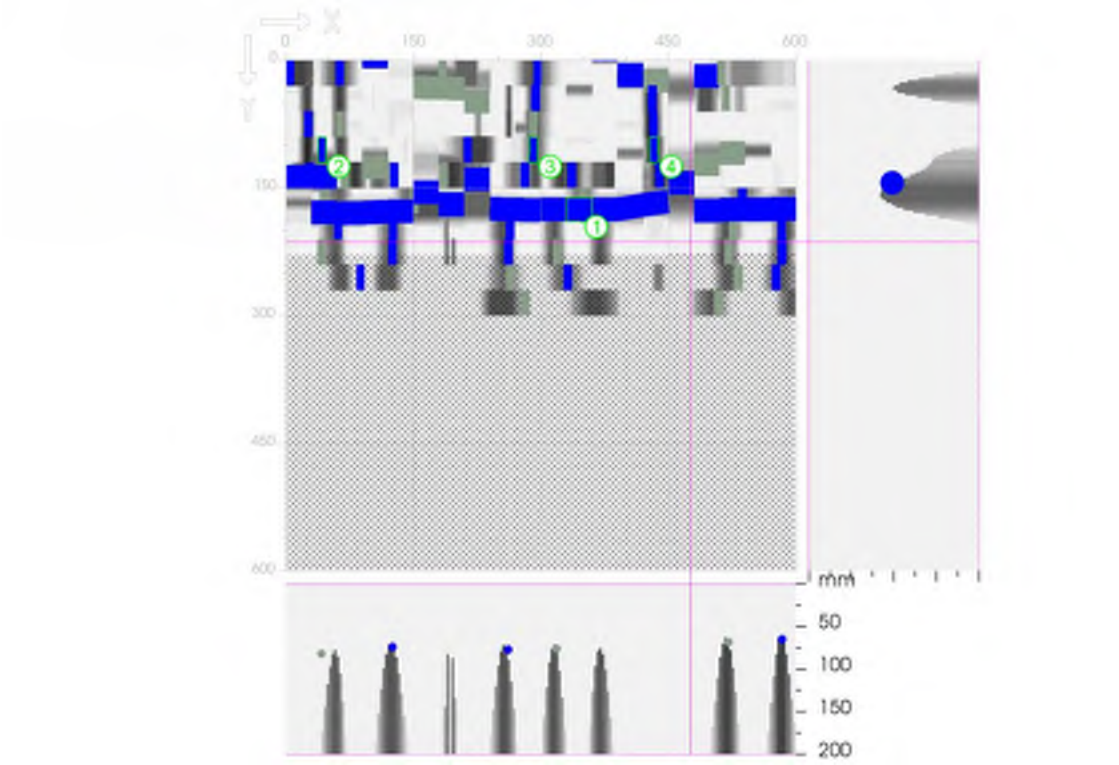
Project name:	CIS - L25	Customer:	CIS Tower
Location:	Level 25 Location 302	Object:	Beam
User:	BD		
Comment:	-		

Ø Horizontal:	28 mm +/- 0 mm	Type:	Input
Ø Vertical:	10 mm +/- 0 mm	Type:	Input
Detection mode:	Auto		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	555 mm	478 mm	69 mm	28 mm	Horizontal	High
2.	555 mm	654 mm	91 mm	28 mm	Horizontal	High
3.	89 mm	795 mm	11 mm	10 mm	Vertical	High
4.	185 mm	435 mm	38 mm	10 mm	Vertical	High
5.	278 mm	585 mm	15 mm	10 mm	Vertical	High
6.	346 mm	945 mm	22 mm	10 mm	Vertical	High
7.	625 mm	435 mm	67 mm	10 mm	Vertical	High

.Hilti PROFIS Detection Report

Scan File:	303- Side.fscan
Serial number:	227190008
Date / Time:	2021-06-30 15:34:34
Comment:	-



x: 476 mm	y: 213 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

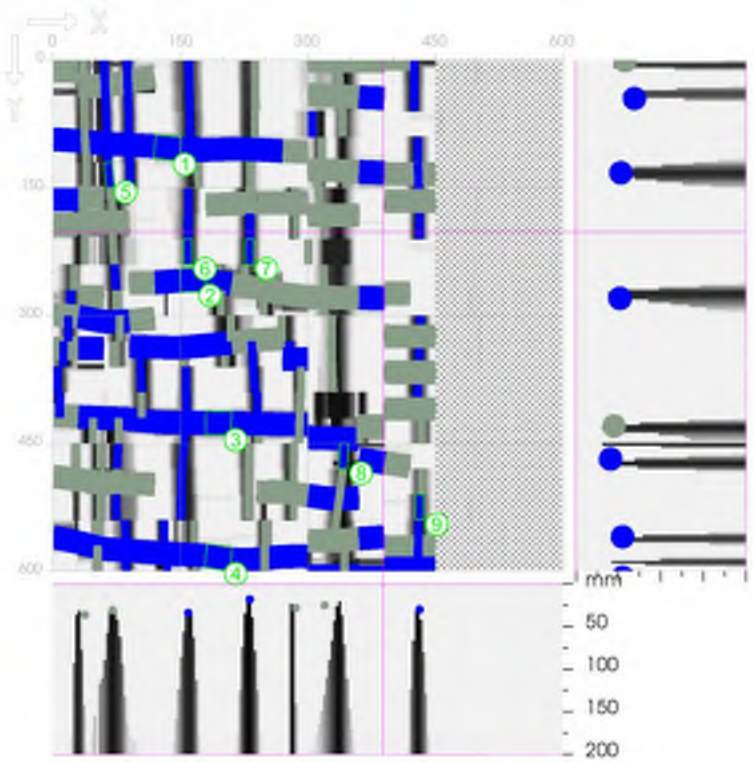
Project name:	CIS - L25	Customer:	CIS Tower
Location:	Level 25 Location 303 Side	Object:	Beam
User:	BD		
Comment:	-		

Ø Horizontal:	28 mm +/- 0 mm	Type:	Input
Ø Vertical:	10 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	345 mm	176 mm	56 mm	28 mm	Horizontal	High
2.	42 mm	105 mm	39 mm	10 mm	Vertical	High
3.	291 mm	105 mm	49 mm	10 mm	Vertical	High
4.	433 mm	105 mm	20 mm	10 mm	Vertical	High

.Hilti PROFIS Detection Report

Scan File:	303.fscan
Serial number:	227190008
Date / Time:	2021-06-30 15:32:14
Comment:	-



x: 389 mm	y: 201 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

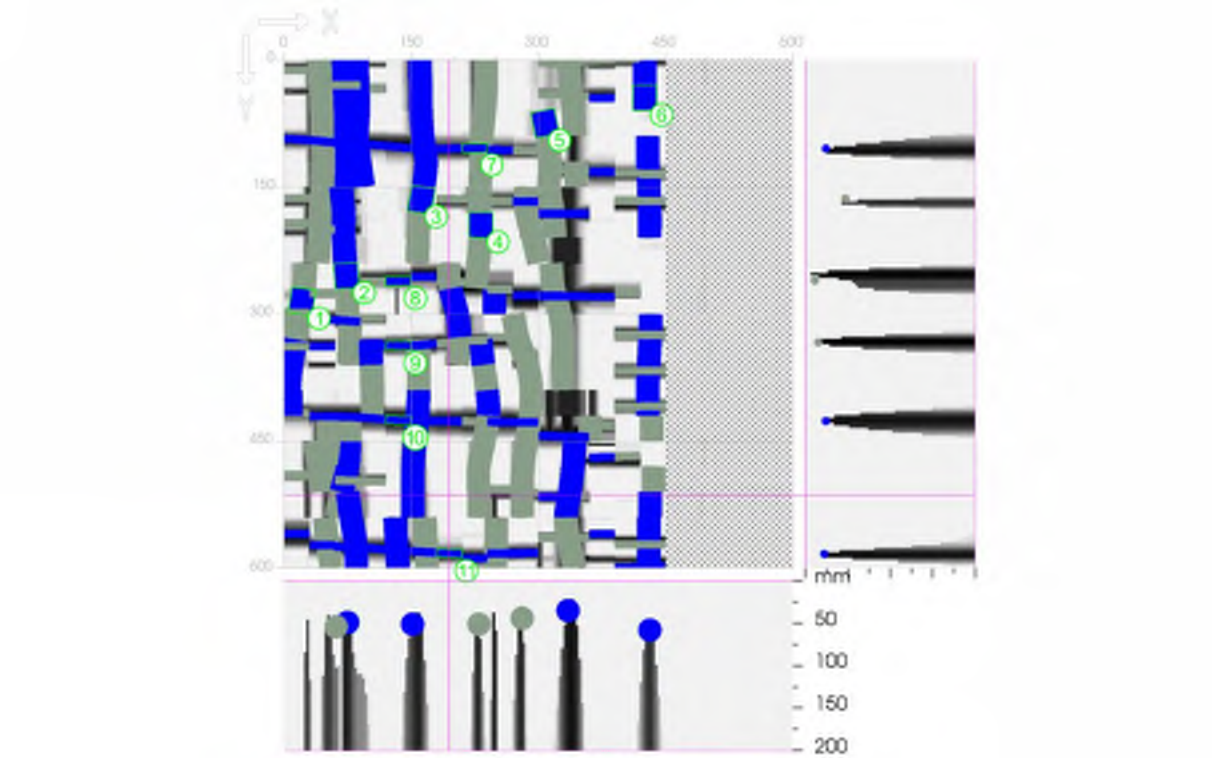
Project name:	CIS - L25	Customer:	CIS Tower
Location:	Level 25 Location 303	Object:	Beam
User:	BD		
Comment:	-		

Ø Horizontal:	28 mm +/- 0 mm	Type:	Input
Ø Vertical:	10 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	135 mm	102 mm	24 mm	28 mm	Horizontal	High
2.	165 mm	256 mm	16 mm	28 mm	Horizontal	High
3.	195 mm	426 mm	24 mm	28 mm	Horizontal	High
4.	195 mm	583 mm	22 mm	28 mm	Horizontal	High
5.	66 mm	135 mm	25 mm	10 mm	Vertical	High
6.	159 mm	225 mm	31 mm	10 mm	Vertical	High
7.	231 mm	225 mm	8 mm	10 mm	Vertical	High
8.	343 mm	465 mm	12 mm	10 mm	Vertical	High
9.	432 mm	525 mm	40 mm	10 mm	Vertical	High

.Hilti PROFIS Detection Report

Scan File:	303.fscan
Serial number:	227190008
Date / Time:	2021-06-30 15:32:14
Comment:	-



x: 194 mm	y: 514 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

Project name:	CIS L25	Customer:	CIS Tower
Location:	Level 25 Loc 303	Object:	Beam
User:	BD		
Comment:	-		

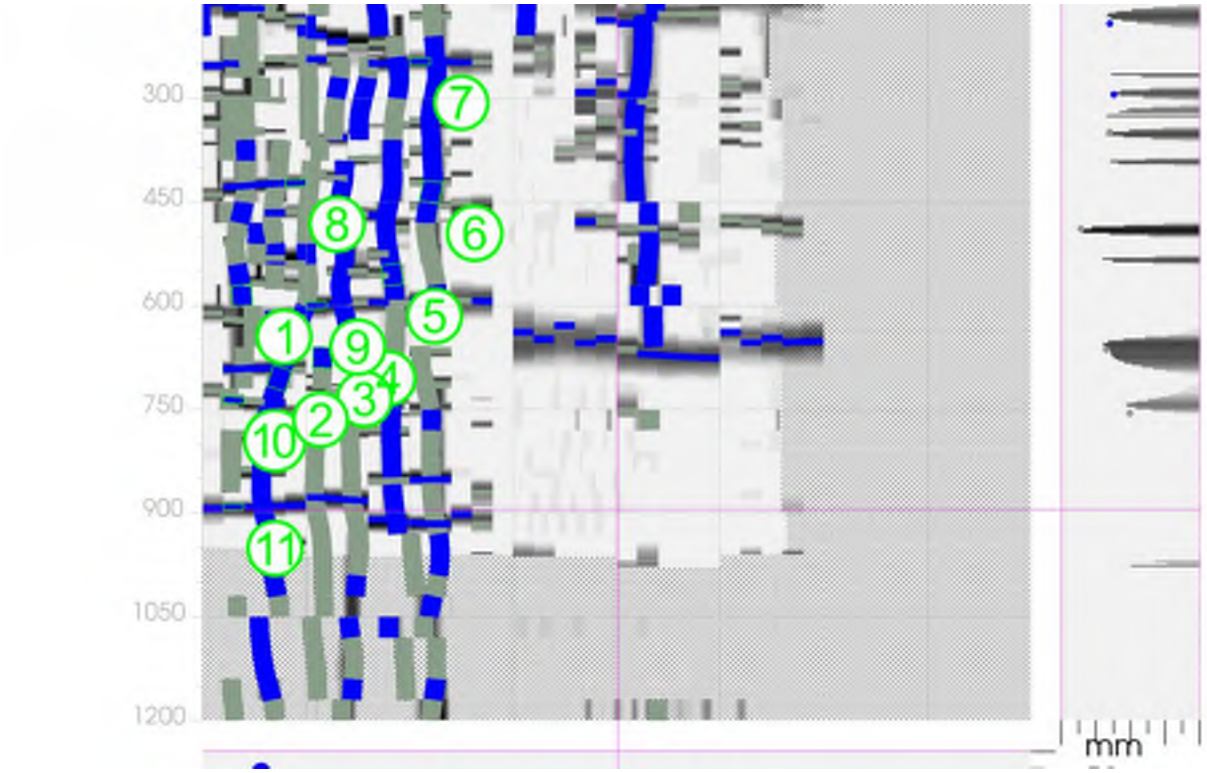
Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	21 mm	285 mm	28 mm	28 mm	Vertical	High
2.	75 mm	255 mm	38 mm	28 mm	Vertical	High
3.	160 mm	165 mm	36 mm	28 mm	Vertical	High
4.	232 mm	195 mm	18 mm	28 mm	Vertical	High
5.	305 mm	75 mm	32 mm	28 mm	Vertical	High
6.	425 mm	45 mm	34 mm	28 mm	Vertical	High
7.	225 mm	104 mm	18 mm	10 mm	Horizontal	High
8.	135 mm	261 mm	16 mm	10 mm	Horizontal	High
9.	135 mm	338 mm	8 mm	10 mm	Horizontal	High
10.	135 mm	426 mm	18 mm	10 mm	Horizontal	High

11.	195 mm	583 mm	17 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	302.fscan
Serial number:	227190008
Date / Time:	2021-06-30 15:24:40
Comment:	-



x: 602 mm	y: 895 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

Project name:	CIS L25	Customer:	CIS Tower
Location:	Level 25 Loc 302	Object:	Beam
User:	BD		
Comment:	-		

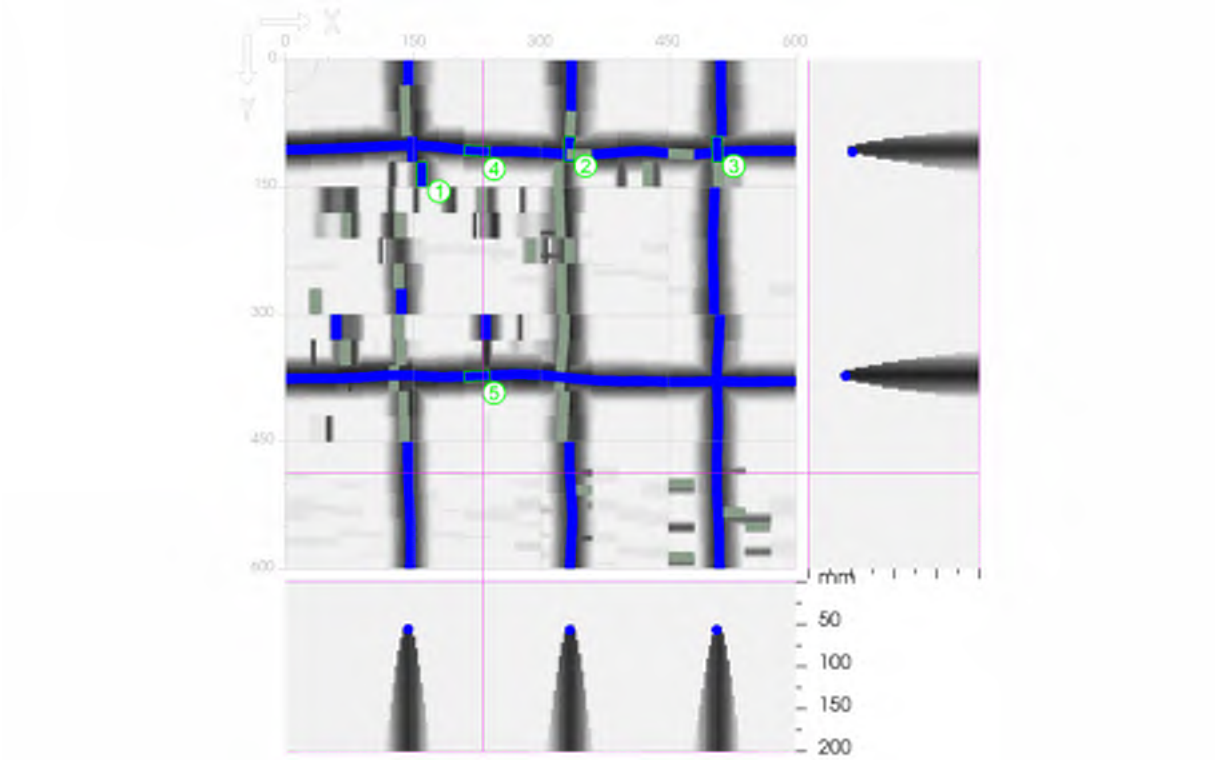
Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	58 mm	585 mm	28 mm	28 mm	Vertical	High
2.	111 mm	705 mm	12 mm	28 mm	Vertical	High
3.	175 mm	675 mm	22 mm	28 mm	Vertical	High
4.	209 mm	645 mm	31 mm	28 mm	Vertical	High
5.	276 mm	555 mm	22 mm	28 mm	Vertical	High
6.	334 mm	435 mm	32 mm	28 mm	Vertical	High
7.	315 mm	246 mm	20 mm	10 mm	Horizontal	High
8.	135 mm	422 mm	8 mm	10 mm	Horizontal	High
9.	165 mm	600 mm	9 mm	10 mm	Horizontal	High
10.	45 mm	735 mm	14 mm	10 mm	Horizontal	High

11.	45 mm	891 mm	23 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	305.fscan
Serial number:	227190008
Date / Time:	2021-06-29 11:44:58
Comment:	-



x: 232 mm	y: 487 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

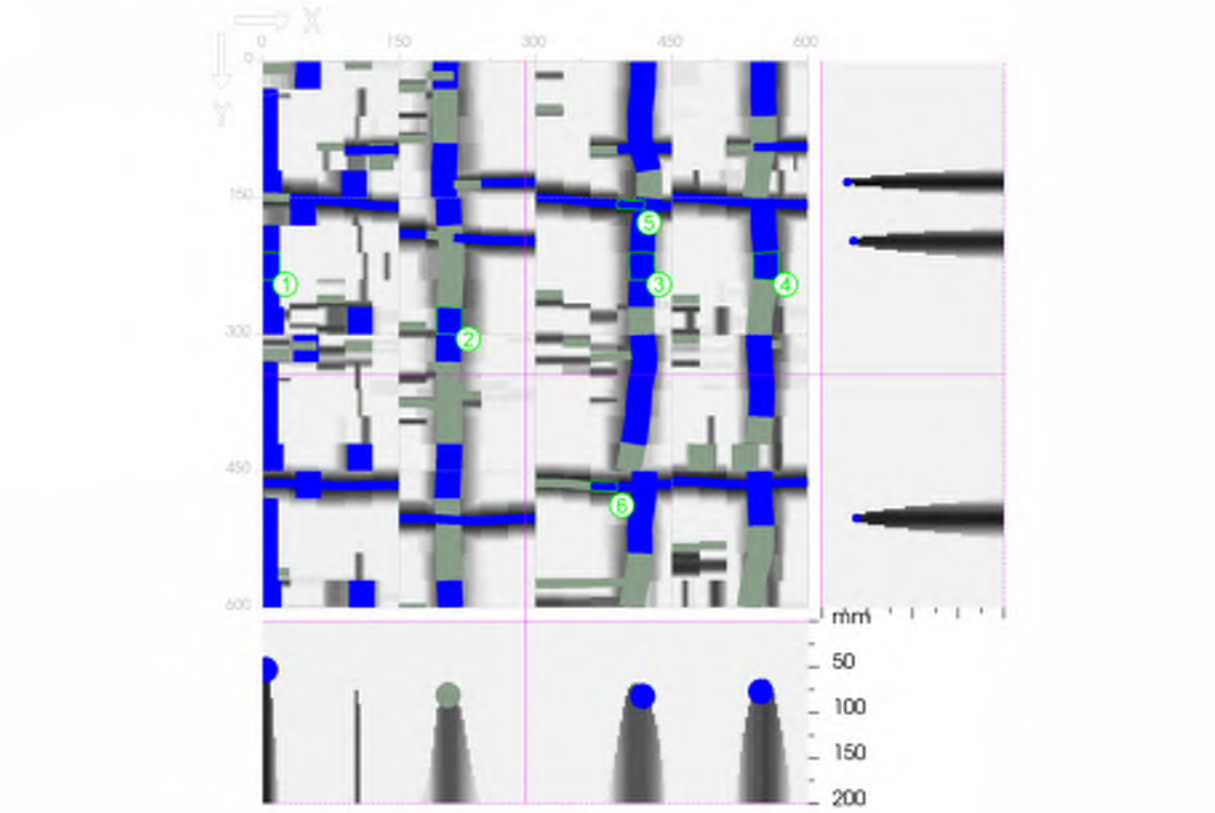
Project name:	CIS - L25	Customer:	CIS Tower
Location:	Level 25 Location 305	Object:	Wall
User:	BD		
Comment:	Main and Link bar size is 13mm Ribbed.		

Ø Horizontal:	12 mm +/- 0 mm	Type:	Input
Ø Vertical:	12 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	160 mm	135 mm	55 mm	12 mm	Vertical	High
2.	332 mm	105 mm	62 mm	12 mm	Vertical	High
3.	507 mm	105 mm	67 mm	12 mm	Vertical	High
4.	225 mm	109 mm	45 mm	12 mm	Horizontal	High
5.	225 mm	373 mm	37 mm	12 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	296 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-07-19 12:51:33
Comment:	-



x: 289 mm	y: 345 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

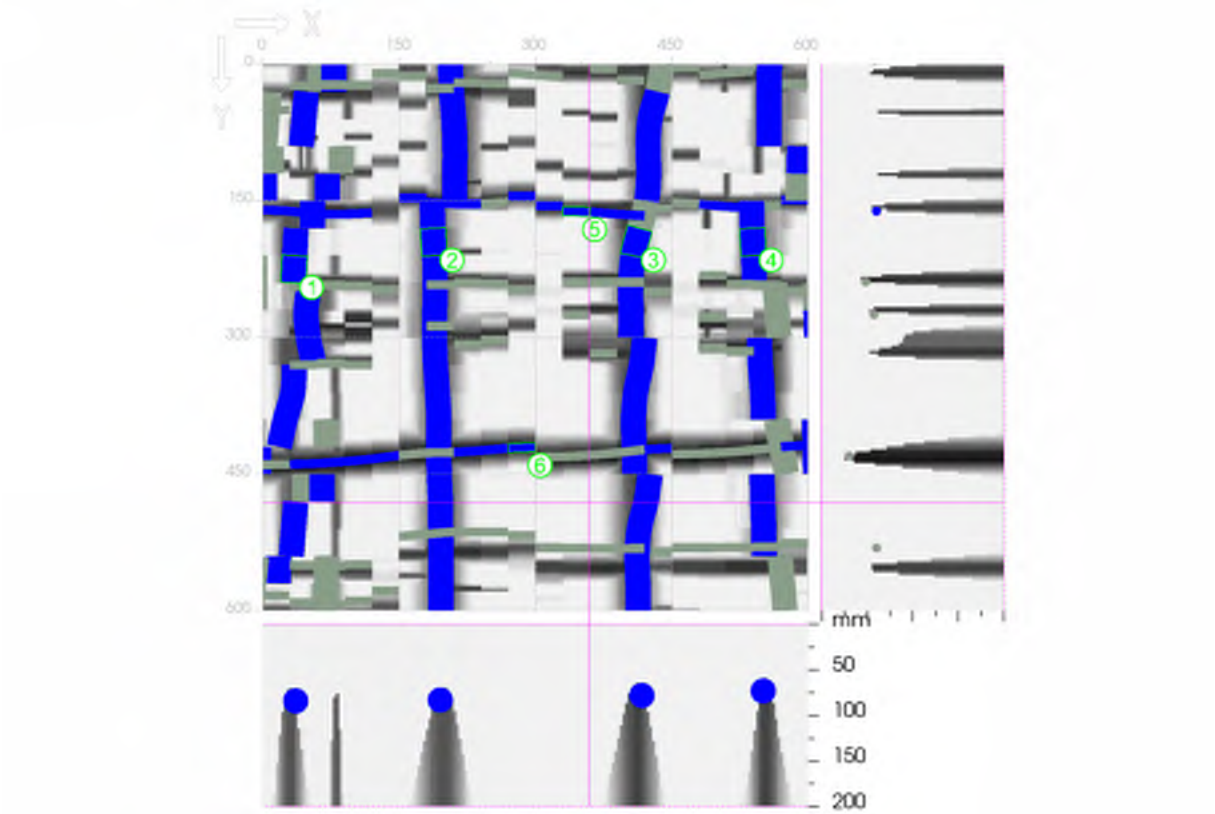
Project name:	CIS L25 - 19-7-21	Customer:	CIS Tower
Location:	Level 25 Loc 296 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	5 mm	225 mm	37 mm	28 mm	Vertical	High
2.	206 mm	285 mm	77 mm	28 mm	Vertical	High
3.	416 mm	225 mm	71 mm	28 mm	Vertical	High
4.	555 mm	225 mm	69 mm	28 mm	Vertical	High
5.	405 mm	157 mm	29 mm	10 mm	Horizontal	High
6.	375 mm	468 mm	31 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	296 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-07-19 12:54:42
Comment:	-



x: 359 mm	y: 482 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

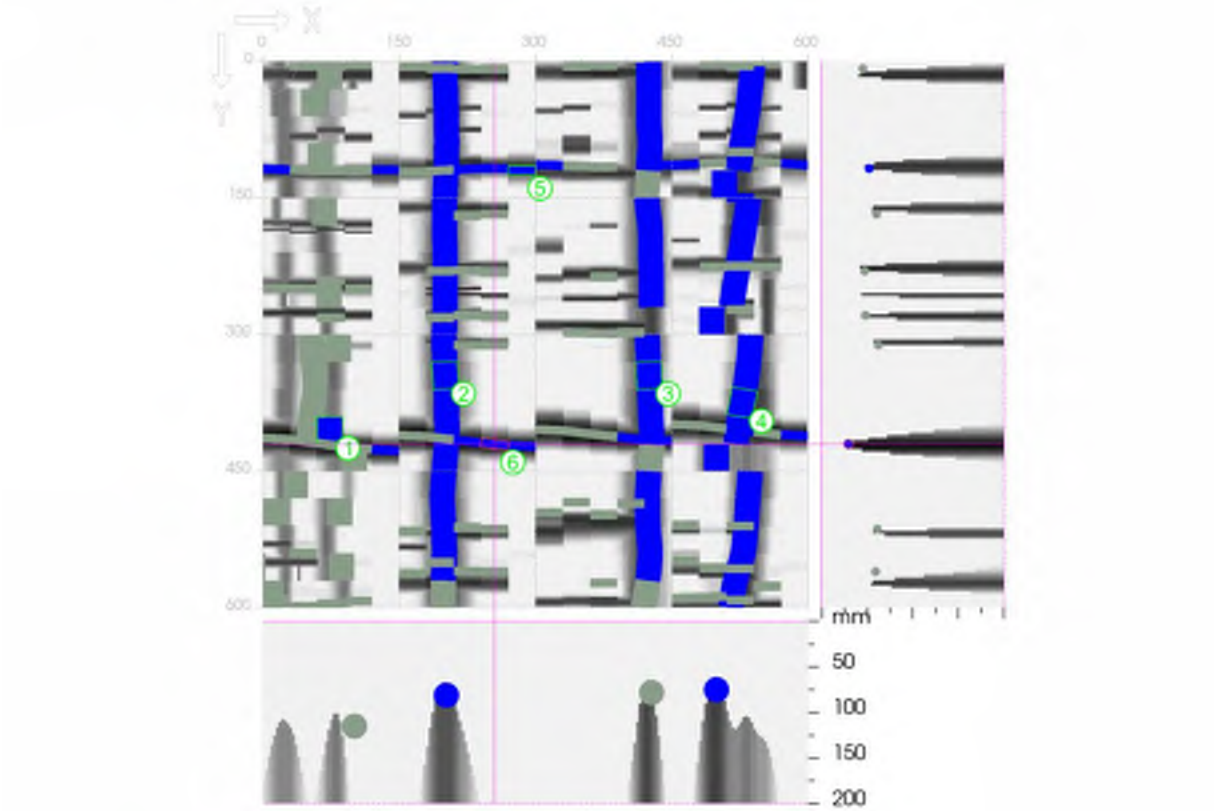
Project name:	CIS L25 - 19-7-21	Customer:	CIS Tower
Location:	Level 25 Loc 296 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	34 mm	225 mm	81 mm	28 mm	Vertical	High
2.	188 mm	195 mm	70 mm	28 mm	Vertical	High
3.	410 mm	195 mm	60 mm	28 mm	Vertical	High
4.	539 mm	195 mm	59 mm	28 mm	Vertical	High
5.	345 mm	161 mm	55 mm	10 mm	Horizontal	High
6.	285 mm	420 mm	29 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	297 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-07-19 12:47:56
Comment:	-



x: 255 mm	y: 420 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

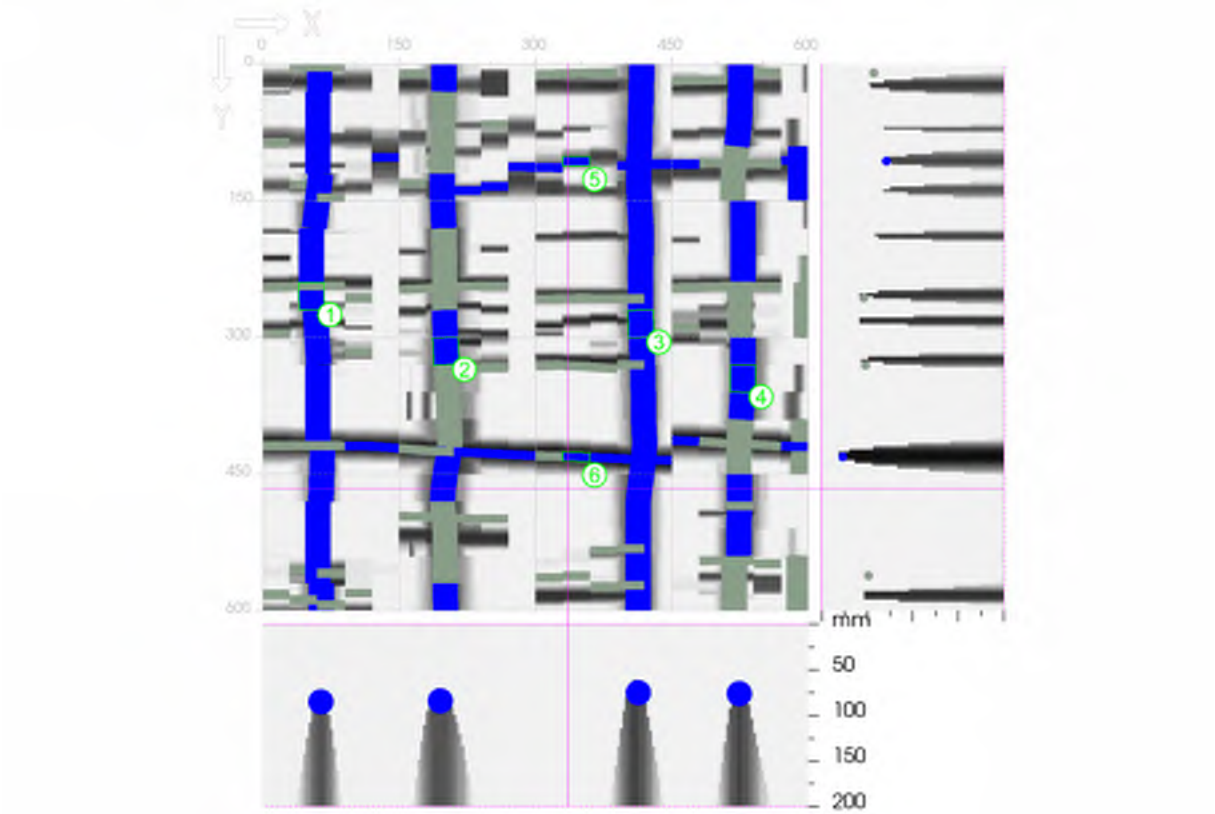
Project name:	CIS L25 - 19-7-21	Customer:	CIS Tower
Location:	Level 25 Loc 297 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	74 mm	405 mm	102 mm	28 mm	Vertical	High
2.	201 mm	345 mm	66 mm	28 mm	Vertical	High
3.	426 mm	345 mm	63 mm	28 mm	Vertical	High
4.	528 mm	375 mm	65 mm	28 mm	Vertical	High
5.	285 mm	120 mm	53 mm	10 mm	Horizontal	High
6.	255 mm	420 mm	24 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	297 -South Face.fscan
Serial number:	227190008
Date / Time:	2021-07-19 12:45:37
Comment:	-



x: 335 mm	y: 466 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

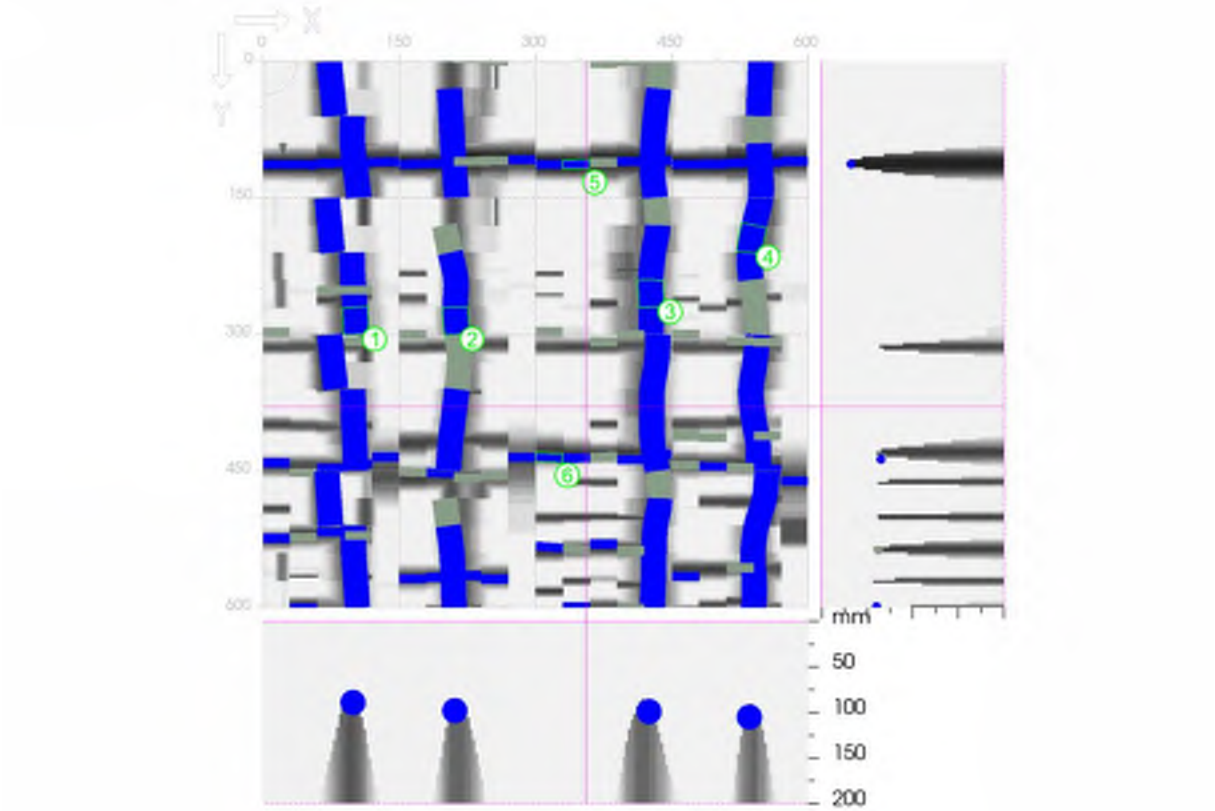
Project name:	CIS L25 - 19-7-21	Customer:	CIS Tower
Location:	Level 25 Loc 297 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	54 mm	255 mm	42 mm	28 mm	Vertical	High
2.	202 mm	315 mm	69 mm	28 mm	Vertical	High
3.	416 mm	285 mm	56 mm	28 mm	Vertical	High
4.	528 mm	345 mm	64 mm	28 mm	Vertical	High
5.	345 mm	106 mm	66 mm	10 mm	Horizontal	High
6.	345 mm	431 mm	18 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	300 - South Face.fscan
Serial number:	227190008
Date / Time:	2021-07-19 12:33:57
Comment:	-



x: 356 mm	y: 379 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

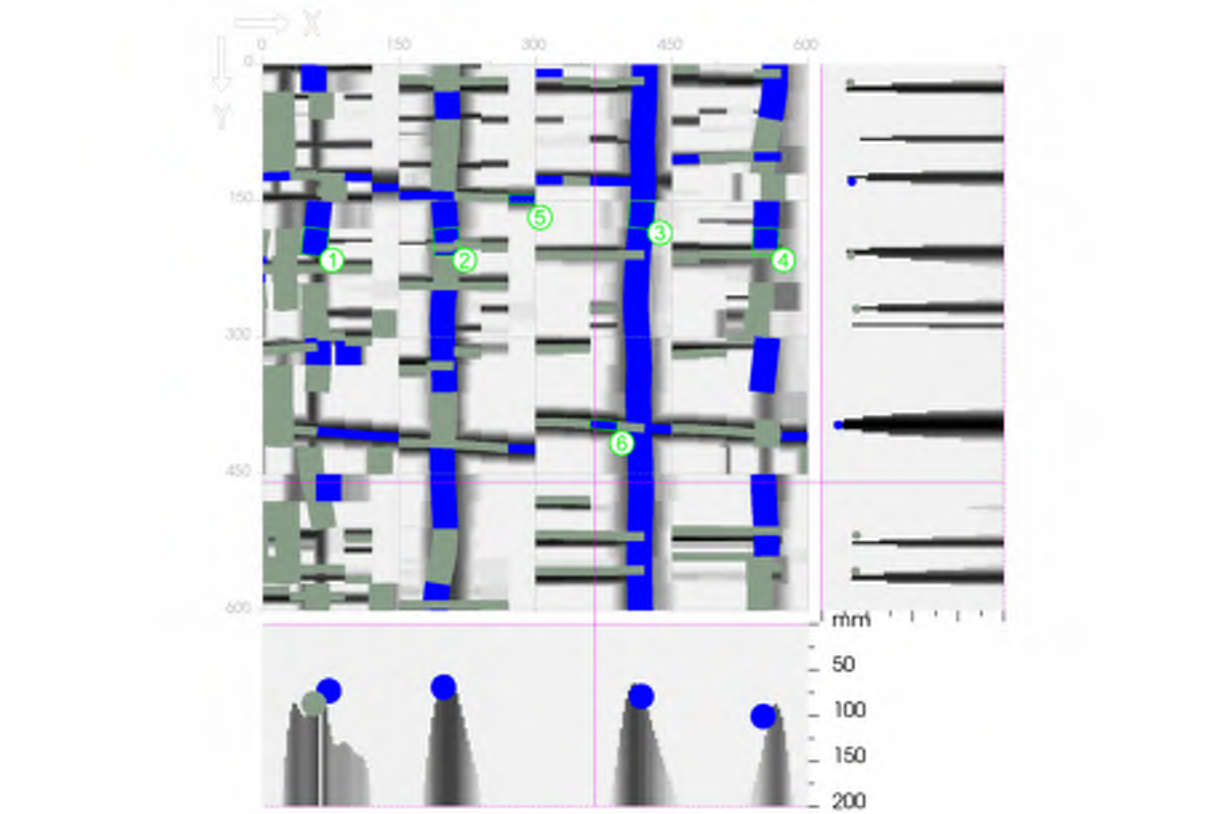
Project name:	CIS L25 - 19-7-21	Customer:	CIS Tower
Location:	Level 25 Loc 300 South Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	103 mm	285 mm	75 mm	28 mm	Vertical	High
2.	210 mm	285 mm	79 mm	28 mm	Vertical	High
3.	428 mm	255 mm	91 mm	28 mm	Vertical	High
4.	536 mm	195 mm	89 mm	28 mm	Vertical	High
5.	345 mm	113 mm	27 mm	10 mm	Horizontal	High
6.	315 mm	434 mm	56 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	300 - West Face.fscan
Serial number:	227190008
Date / Time:	2021-07-19 12:40:31
Comment:	-



x: 365 mm	y: 460 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

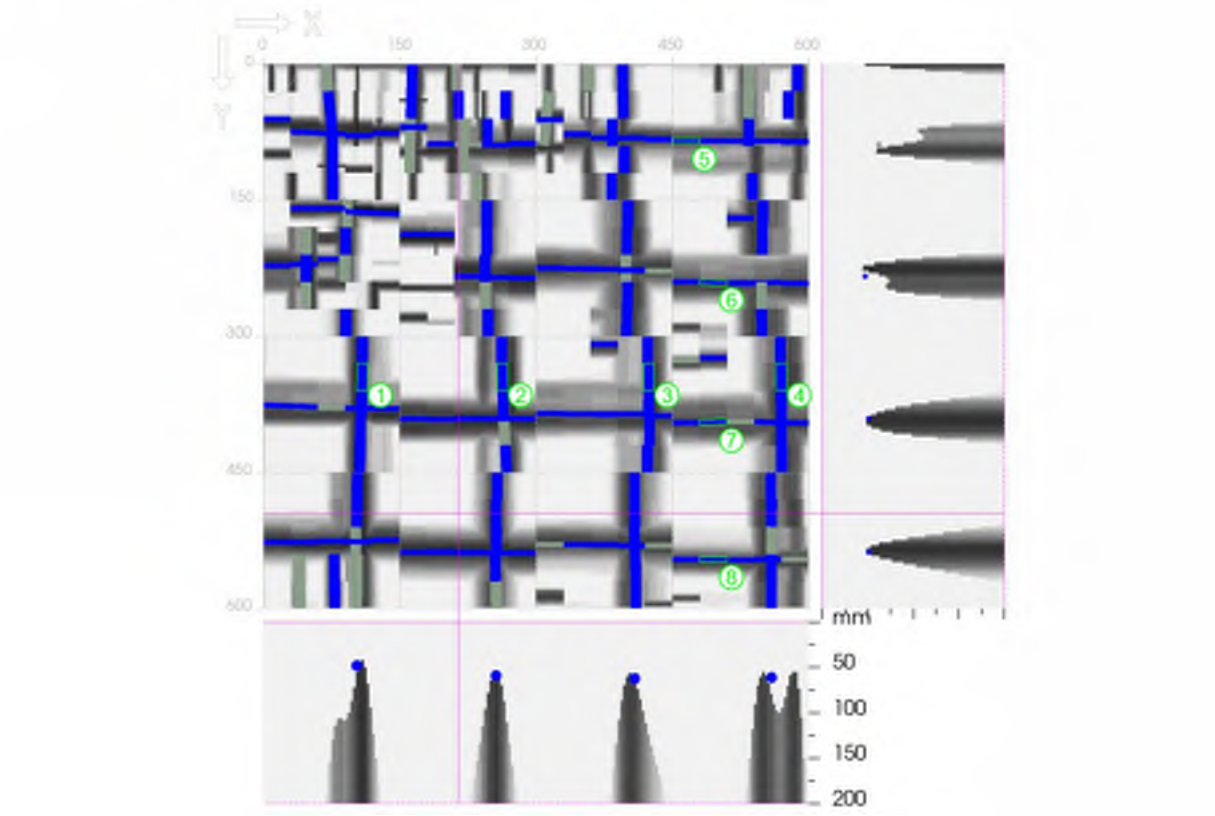
Project name:	CIS L25 - 19-7-21	Customer:	CIS Tower
Location:	Level 25 Loc 300 West Face	Object:	Column
User:	BD		
Comment:	-		

Ø Horizontal:	10 mm +/- 0 mm	Type:	Input
Ø Vertical:	28 mm +/- 0 mm	Type:	Input
Detection mode:	Rebar		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	56 mm	195 mm	59 mm	28 mm	Vertical	High
2.	202 mm	195 mm	55 mm	28 mm	Vertical	High
3.	417 mm	165 mm	65 mm	28 mm	Vertical	High
4.	553 mm	195 mm	88 mm	28 mm	Vertical	High
5.	285 mm	148 mm	44 mm	10 mm	Horizontal	High
6.	375 mm	396 mm	13 mm	10 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	304.fscan
Serial number:	227190008
Date / Time:	2021-07-20 13:01:00
Comment:	-



x: 215 mm	y: 495 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

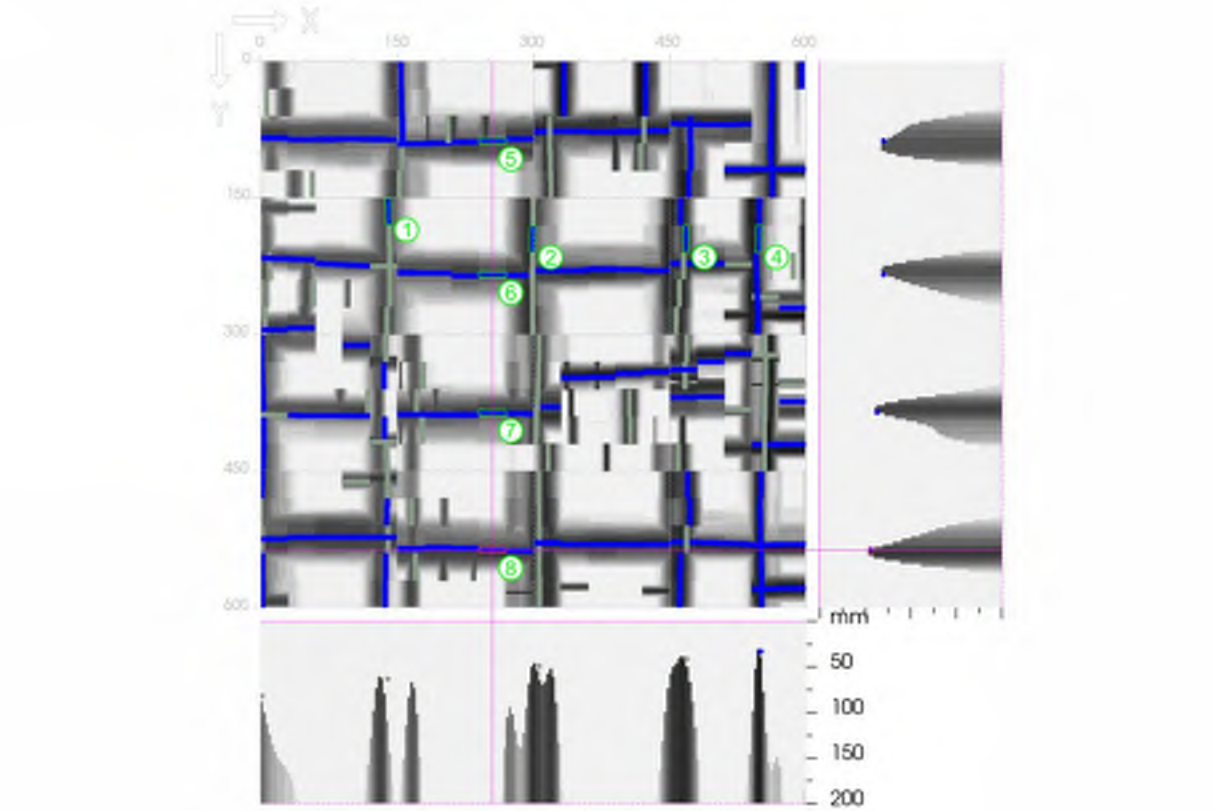
Project name:	CIS L25 - 19-7-21	Customer:	CIS Tower
Location:	Level 25 Loc 304	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	12 mm +/- 0 mm	Type:	Input
Detection mode:	Auto		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	109 mm	345 mm	38 mm	12 mm	Vertical	High
2.	263 mm	345 mm	49 mm	12 mm	Vertical	High
3.	424 mm	345 mm	56 mm	12 mm	Vertical	High
4.	570 mm	345 mm	55 mm	12 mm	Vertical	High
5.	465 mm	85 mm	62 mm	6 mm	Horizontal	High
6.	495 mm	240 mm	66 mm	6 mm	Horizontal	High
7.	495 mm	395 mm	67 mm	6 mm	Horizontal	High
8.	495 mm	546 mm	65 mm	6 mm	Horizontal	High

.Hilti PROFIS Detection Report

Scan File:	306.fscan
Serial number:	227190008
Date / Time:	2021-07-20 14:03:20
Comment:	-



x: 255 mm	y: 536 mm	z: 0 mm	Thickness: 200 mm
Overlay: - mm			

Project name:	CIS L25 - 19-7-21	Customer:	CIS Tower
Location:	Level 25 Loc 306	Object:	Slab
User:	BD		
Comment:	-		

Ø Horizontal:	6 mm +/- 0 mm	Type:	Input
Ø Vertical:	6 mm +/- 0 mm	Type:	Input
Detection mode:	Auto		

Recorded measurements:	x:	y:	Cover:	Ø:	Orientation:	Quality:
1.	140 mm	165 mm	66 mm	6 mm	Vertical	High
2.	299 mm	195 mm	41 mm	6 mm	Vertical	High
3.	468 mm	195 mm	35 mm	6 mm	Vertical	High
4.	547 mm	195 mm	32 mm	6 mm	Vertical	High
5.	255 mm	87 mm	67 mm	6 mm	Horizontal	High
6.	255 mm	234 mm	67 mm	6 mm	Horizontal	High
7.	255 mm	386 mm	60 mm	6 mm	Horizontal	High
8.	255 mm	536 mm	53 mm	6 mm	Horizontal	High

END OF REPORT