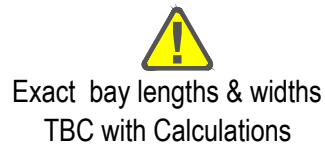
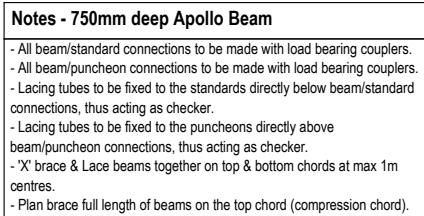


 Boarding, lacing tubes and intermediate transoms omitted for clarity




Exact beam types TBC
with supporting
calculations



	CDM REGULATIONS 2015 The Construction (design & management) Regulations 2015, Require that we make customers aware of their duties imposed by the regulations. Guidance on your duties are published by the HSE in the form of an approved code of practice.	
	TG4:19 Scaffold tie arrangements must be erected in accordance with the guidance notes set out in TG4:19 (Anchorage Systems for Scaffolding)	
	TG4:19 (TIE TESTING REQUIREMENTS) • Preliminary Load Test - This anchor to $2 \times TBC = TBC$ If the preliminary load test is successful, then apply the proof test load to the supporting anchors. $1.25 \times TBC = TBC$ pull out. • Should the test load fall below the above figures, then the tying configuration to be re-evaluated.	
	SG4:15 The scaffolders MUST erect the scaffolding in accordance with the guidance notes set out in SG4:15	
	LADDER ACCESS LADDER ACCESS TO BE INSTALLED IN ACCORDANCE WITH SG25:20 (omitted for clarity)	
	PEDESTRIAN PROTECTION PROTECTION TO THE PUBLIC MUST BE MAINTAINED IN ACCORDANCE WITH SG34:17 & TG20:13	
	CLASS B COUPLERS ALL CONNECTIONS TO BE MADE WITH CLASS B COUPLERS CLASS B COUPLER: SWL = 9.1kN	
	SYSTEM STAIR TOWER ALL CLEARANCES REQUIRED AROUND SYSTEM STAIR TOWERS TO BE CONFIRMED PRIOR TO ERECTION. TO ELIMINATE POTENTIAL CLASHES WITH THE SURROUNDING ENVIRONMENT	
	RISK Scaffold contractor to include in their RAMS safe system of working on the roof	
	RISK Scaffold operatives must have a safe system of work in place when working on beams to ensure they are clipped on at all times	
	RISK Scaffold operatives must have a safe system of work in place when working on leading edges to ensure they are clipped on at all times	
	RISK Principal contractor to confirm ground is capable of supporting imposed loads	
	RISK Principal contractor to confirm structure is capable of supporting imposed loads	

<u>Legend</u>	
	• Tube
	• Connecting Tube
	• 450mm Beam
	• 750mm Beam
	• Roof Beams
	• Hoarding
	• Chord Bracing
	• Visqueen
	• Sheeting
	• Spur/Pull Back Raker
	• Bracing
	• Standard
	• Hanger
	• Punchon
	• Shear Tie
	• 12mm Excalibur EYB
	• Eyebolt (or similar)
	• Check Coupler

Client:



THESE LOADINGS MUST NOT BE EXCEEDED
All Loadings Unfactored
No alterations which may effect the scaffolds structural stability
to be made without prior written notice from BDS Ltd



Draft Only

 Please print all drawings in colour A3 min
Drawing not to scale
dimensions as per drawing

Project: 47 Peter St, Manchester

Drawing Title: External Independent Access & Temporary Roof

Drawn by: Jonny Hollingworth Draft: 14/12/2020
Signed: Approval: TBC

Checked by: TBC	Date: TBC
Signed: TBC	

Drawing No.

Drawing No.
BDS-6522-01

A	N/A	N/A
B	N/A	N/A
C	N/A	N/A
D	N/A	N/A
E	N/A	N/A

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The customer should check that we have correctly interpreted his/her requirements, and that all loadings, details, erection & dismantling sequences etc. are correct and practicable.

The Main Contractor is to ensure the ground, structure and/or base provided for our scaffold, is adequate to support the imposed loads applied, including the provision for any necessary spreaders.

The design and erection of scaffolds are to conform with the following British Standards and Codes of Practice:

- BS1139 Metal Scaffolding**
- BS2482 Specification for Timber Boards**
- BS EN 12811-1: Codes of Practice for Access and Working Scaffolds and Special Scaffold Structures in Steel**
- BS EN 12812-1:2008 Falsework: Performance requirements & general design**
- TG20-13 Guide to Good Practice for Scaffolding with Tube and Fittings**
- BS EN 1991-1-1:2002 Eurocode: Actions on Structures - Dead, Self-weight and Imposed Loads**
- BS EN 1991-1-4:2005 Eurocode: Actions on Structures - Wind**
- BS EN 13374:2013 Temporary edge protection systems - Product specification, test methods.**



 Boarding, lacing tubes and intermediate transoms omitted for clarity

- All beam/standard connections to be made with load bearing couplers.
- All beam/punchon connections to be made with load bearing couplers.
- Lacing tubes to be fixed to the standards directly below beam/standard connections, thus acting as checker.
- Lacing tubes to be fixed to the punchons directly above beam/punchon connections, thus acting as checker.
- Lace beams together on top & bottom chords at max 1m centres.
- Plan brace full length of beams on the top chord (compression chord).
- Chord bracing required at max 2m centres

UBIX ROOF SYSTEM

UBIX ROOFING SYSTEM TO BE ERECTED/DISMANTLED IN
ACCORDANCE WITH MANUFACTURERS GUIDELINES AND
RECOMMENDATIONS

	CDM REGULATIONS 2015 The Construction (design & management) Regulations 2015, Require that we make customers aware of their duties imposed by the regulations. Guidance on your duties are published by the HSE in the form of an approved code of practice.	
	TG4:19 Scaffold tie arrangements must be erected in accordance with the guidance notes set out in TG4:19 (Anchorage Systems for Scaffolding)	
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	SYSTEM STAIR TOWER ALL CLEARANCES REQUIRED AROUND SYSTEM STAIR TOWERS TO BE CONFIRMED PRIOR TO ERECTION. TO ELIMINATE POTENTIAL CLASHES WITH THE SURROUNDING ENVIRONMENT	
	RISK Scaffold contractor to include in their RAMS safe system of working on the roof	
	RISK Scaffold operatives must have a safe system of work in place when working on beams to ensure they are clipped on at all times	
	RISK Scaffold operatives must have a safe system of work in place when working on leading edges to ensure they are clipped on at all times	
	RISK Principal contractor to confirm ground is capable of supporting imposed loads	
	RISK Principal contractor to confirm structure is capable of supporting imposed loads	

<u>Legend</u>	
	• Tube
	• Connecting Tube
	• 450mm Beam
	• 750mm Beam
	• Roof Beams
	• Hoarding
	• Chord Bracing
	• Visqueen
	• Sheeting
	• Spur/Pull Back Raker
	• Bracing
	• Standard
	• Hanger
	• Punchon
	• Shear Tie
	• 12mm Excalibur EYB
	• Eyebolt (or similar)
	• Check Coupler

Client:



THESE LOADINGS MUST NOT BE EXCEEDED
All Loadings Unfactored
No alterations which may effect the scaffolds structural stability
to be made without prior written notice from BDS Ltd



 Please print all drawings in colour A3 min
Drawing not to scale
dimensions as per drawing

Checked by: TBC	Date: TBC
Signed: TBC	

Revision
N/A

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The customer should check that we have correctly interpreted his/her requirements, and that all loadings, details, erection & dismantling sequences etc, are correct and practicable.

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- BS1139 Metal Scaffolding
- BS2482 Specification for Timber Boards
- BS EN 12811-1: Codes of Practice for Access and Working Scaffolds and Special Scaffold Structures in Steel
- BS EN 12812-1:2008 Falsework: Performance requirements & general design
- TC20-13 Guide to Good Practice for Scaffolding with Tube and Fittings
- BS EN 1991-1-1:2002 Eurocode: Actions on Structures - Densities, Self-weight and Imposed Loads
- BS EN 1991-1-4:2005 Eurocode: Actions on Structures - Wind
- BS EN 13374:2013 Temporary edge protection systems - Product specification, test methods.



Architectural section drawing of a building with a gabled roof and a grid system. The drawing shows a cross-section with a gabled roof, a grid of columns and beams, and various dimensions. The roof is labeled with a 16m span and a 26.72m total width. The building has a total height of 2.76m. The drawing includes a grid system with columns and beams, and various dimensions for the structure. The drawing is labeled with 'Plan B-B' and 'Plan A-A'.

- | | | |
|---|---|---|
|  | CDM REGULATIONS 2015
The Construction (design & management) Regulations 2015, Require that we make customers aware of their duties imposed by the regulations. Guidance on your duties are published by the HSE in the form of an approved code of practice. |  |
|  | TG4:19
Scaffold tie arrangements must be erected in accordance with the guidance notes set out in TG4:19 (Anchorage Systems for Scaffolding) |  |
|  | TG4:19 (TIE TESTING REQUIREMENTS) <ul style="list-style-type: none"> • Preliminary Load Test - This anchor to $2 \times TBC = TBC$ If the preliminary load test is successful, then apply the proof test load to the supporting anchors. $1.25 \times TBC = TBC$ 'pull out'. • Should the test load fall below the above figures, then the tying configuration to be re-evaluated. |  |
|  | SG4:15
The scaffolders MUST erect the scaffolding in accordance with the guidance notes set out in SG4:15 |  |
|  | LADDER ACCESS
LADDER ACCESS TO BE INSTALLED IN ACCORDANCE WITH SG25:20 (omitted for clarity) |  |
|  | PEDESTRIAN PROTECTION
PROTECTION TO THE PUBLIC MUST BE MAINTAINED IN ACCORDANCE WITH SG34:17 & TG20:13 |  |
|  | CLASS B COUPLERS
ALL CONNECTIONS TO BE MADE WITH CLASS B COUPLERS
CLASS B COUPLER: SWL = 9.1kN |  |
|  | SYSTEM STAIR TOWER
ALL CLEARANCES REQUIRED AROUND SYSTEM STAIR TOWERS TO BE CONFIRMED PRIOR TO ERECTION, TO ELIMINATE POTENTIAL CLASHES WITH THE SURROUNDING ENVIRONMENT |  |
|  | RISK
Scaffold contractor to include in their RAMS safe system of working on the roof |  |
|  | RISK
Scaffold operatives must have a safe system of work in place when working on beams to ensure they are clipped on at all times |  |
|  | RISK
Scaffold operatives must have a safe system of work in place when working on leading edges to ensure they are clipped on at all times |  |
|  | RISK
Principal contractor to confirm ground is capable of supporting imposed loads |  |
|  | RISK
Principal contractor to confirm structure is capable of supporting imposed loads |  |

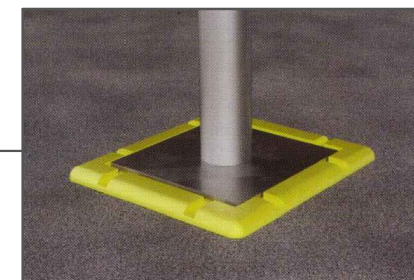
Exact bay lengths & widths
TBC with Calculations

	UBIX ROOF SYSTEM	
UBOX ROOFING SYSTEM TO BE ERECTED/DISMANTLED IN ACCORDANCE WITH MANUFACTURERS GUIDELINES AND RECOMMENDATIONS		

Notes - 450mm deep LAYHER Beam

- All beam/standard connections to be made with load bearing couplers
- All beam/puncheon connections to be made with load bearing coupler
- Lacing tubes to be fixed to the standards directly below beam/standard connections, thus acting as checker.
- Lacing tubes to be fixed to the puncheons directly above beam/puncheon connections, thus acting as checker.
- Laces beamed together on top & bottom chords at max 1m centres.
- Plan brace full length of beams on the top chord (compression chord)
- Chord bracing required at max 2m centres

Tredda Plate Visual



TBC

Client:



TBC

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 Please print all drawings in colour A3 min
Drawing not to scale
dimensions as per drawing

Project: 47 Peter St, Manchester

Drawing Title: External Independent Access & Temporary Roof

Drawn by: Jonny Hollingworth	Draft: 14/12/2020
Signed:	Approval: TRC

Checked by: TBC	Date: TBC
Signed: TBC	

Drawing No.

Drawing No.
BDS-6522-03

A	N/A	N/A
B	N/A	N/A
C	N/A	N/A
D	N/A	N/A
E	N/A	N/A

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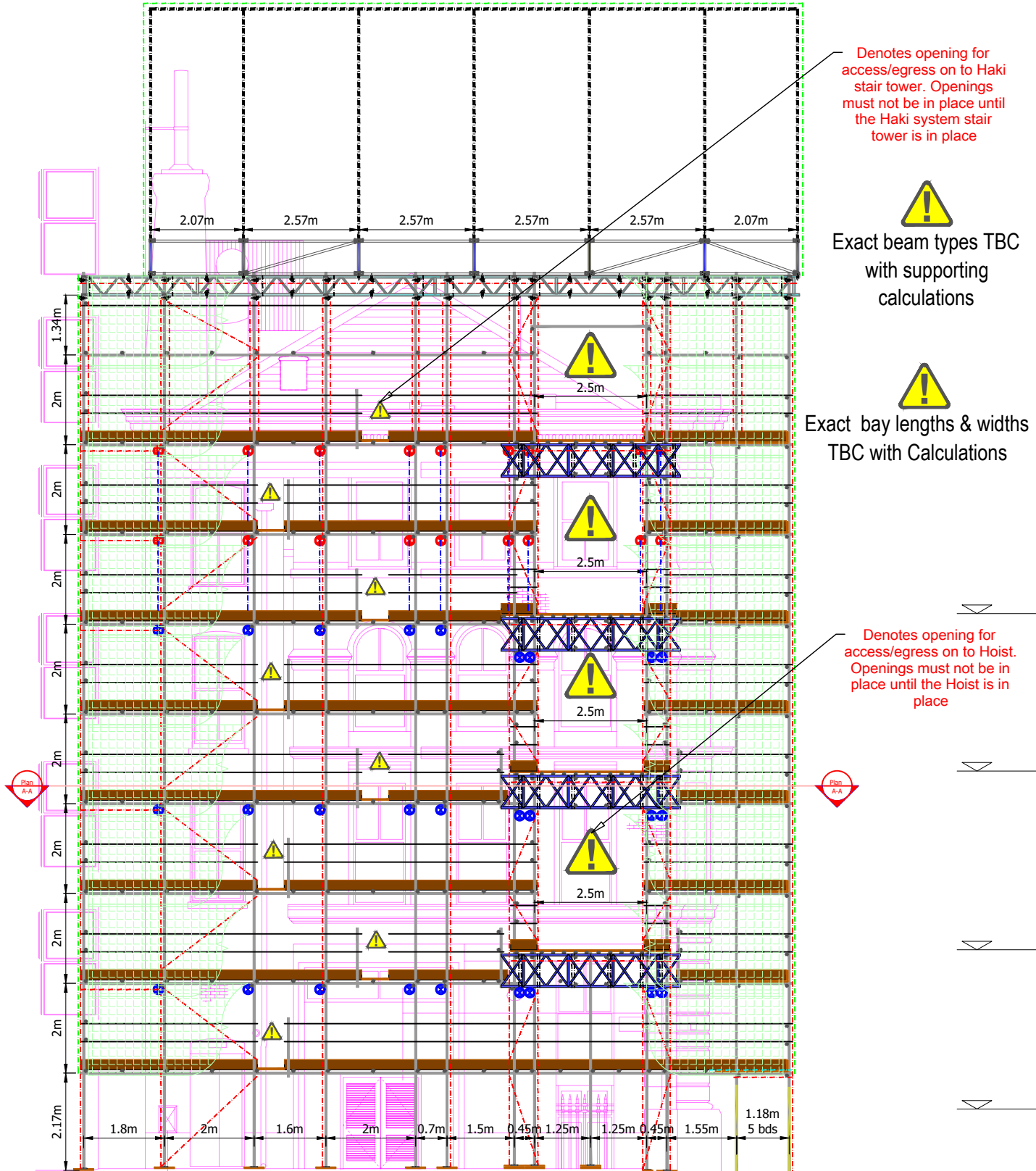
The Main Contractor is to ensure the ground, structure and/or base provided for our scaffold, is adequate to support the imposed loads applied, including the provision for any necessary soreders.

The design and erection of scaffolds are to conform with the following British Standards and Codes of Practice:

- BS1139 Metal Scaffolding
- BS2022 Specification for Timber Booms
- BS EN 12811-1 Codes of Practice for Access and Working Scaffolds
- and Special Scaffold Structures in Steel
- BS EN 12812-1:2008 Falsework: Performance requirements & general design
- TS2013:12 Code of Good Practice for Scaffolding with Tube and Fittings
- BS EN 1991-1-2:2002 Eurocode: Actions on Structures - Densities, Self-weight and Imposed Loads
- BS EN 1991-1-4:2005 Eurocode: Actions on Structures - Wind
- BS EN 13374:2013 Temporary edge protection systems - Product specification, test methods.



Elevation D-D



Fundamental Notes

TBC

Client:



MAXIMUM LOADINGS

TBC

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All Loadings Unfactored
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Draft Only

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Drawing not to scale
dimensions as per drawing

Project: 47 Peter St, Manchester

Drawing Title: External Independent Access & Temporary Roof

Drawn by: Jonny Hollingworth

Draft: 14/12/2020

Signed:

Approval: TBC

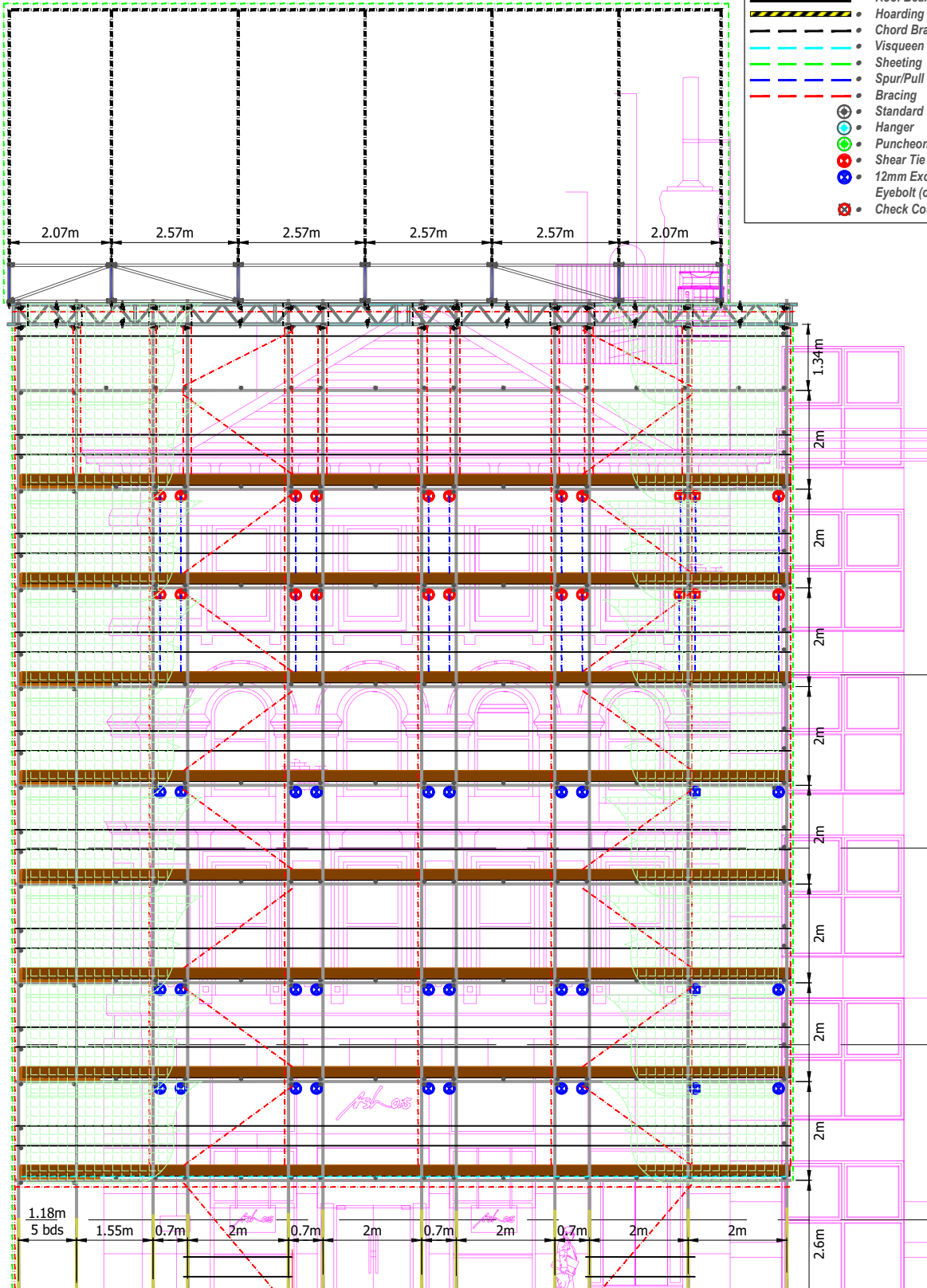
Construction: TBC

Checked by: TBC

Date: TBC

Signed: TBC

Elevation E-E



Drawing No.

BDS-6522-04

Revision

N/A

A

N/A

N/A

B

N/A

N/A

C

N/A

N/A

D

N/A

N/A

E

N/A

N/A

Notes:

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BS2482 Specification for Timber Boards
BS EN 12811-1 Codes of Practice for Access and Working Scaffolds and Special Scaffold Structures in Steel
BS EN 12812-1:2006 Falsework: Performance requirements & general design
TG20:13 Guide to Good Practice for Scaffolding with Tube and Fittings
BS EN 1991-1-1:2002 Eurocode: Actions on Structures - Densities, Self-weight and Imposed Loads
BS EN 1991-1-4:2005 Eurocode: Actions on Structures - Wind
BS EN 13374:2013 Temporary edge protection systems - Product specification, test methods.



T: 0800 270 7998 E: info@buckleydesigns.co.uk

Legend

- Tube
- Connecting Tube
- 450mm Beam
- 750mm Beam
- Roof Beams
- Hoarding
- Chord Bracing
- Visqueen
- Sheeting
- Spur/Pull Back Raker
- Bracing
- Standard
- Hanger
- Punchion
- Shear Tie
- 12mm Excalibur EYB
- Eyebolt (or similar)
- Check Coupler

CDM REGULATIONS 2015

The Construction (design & management) Regulations 2015, Require that we make customers aware of their duties imposed by the regulations. Guidance on your duties are published by the HSE in the form of an approved code of practice.

TG4:19

Scaffold tie arrangements must be erected in accordance with the guidance notes set out in TG4:19 (Anchorage Systems for Scaffolding)

TG4:19 (TIE TESTING REQUIREMENTS)

- Preliminary Load Test - This anchor to 2 x TBC = TBCIf the preliminary load test is successful, then apply the proof test load to the supporting anchors. 1.25 x TBC = TBC "pull out".
- Should the test load fall below the above figures, then the tying configuration to be re-evaluated.

SG4:15

The scaffolders MUST erect the scaffolding in accordance with the guidance notes set out in SG4:15

LADDER ACCESS

LADDER ACCESS TO BE INSTALLED IN ACCORDANCE WITH SG25:20 (omitted for clarity)

PEDESTRIAN PROTECTION

PROTECTION TO THE PUBLIC MUST BE MAINTAINED IN ACCORDANCE WITH SG34:17 & TG20:13

CLASS B COUPLERS

ALL CONNECTIONS TO BE MADE WITH CLASS B COUPLERS
CLASS B COUPLER: SWL = 9.1kN

SYSTEM STAIR TOWER

ALL CLEARANCES REQUIRED AROUND SYSTEM STAIR TOWERS TO BE CONFIRMED PRIOR TO ERECTION. TO ELIMINATE POTENTIAL CLASHES WITH THE SURROUNDING ENVIRONMENT

RISK

Scaffold contractor to include in their RAMS safe system of working on the roof

RISK

Scaffold operatives must have a safe system of work in place when working on beams to ensure they are clipped on at all times

RISK

Scaffold operatives must have a safe system of work in place when working on leading edges to ensure they are clipped on at all times

RISK

Principal contractor to confirm ground is capable of supporting imposed loads

RISK

Principal contractor to confirm structure is capable of supporting imposed loads

HAKI STAIR TOWER

HAKI STAIR TOWER TO BE ERECTED/DISMANTLED IN ACCORDANCE WITH MANUFACTURERS GUIDELINES AND RECOMMENDATIONS

SHEAR TIE REQUIREMENTS

Band & Plate shear tie arrangements MUST be fixed to the wall, inline with the details below
• Bolt Type: ADI, Self Tapping Bolt
• Bolt Size: 130mm (length) - 12mm Ø Diameter
• Minimum Hole Depth: 115mm
• Minimum Embedment Depth: 90mm
• SWL (shear): 15kN per bolt - (tension): 13kN
• Spacing Distance: Minimum 400mm

 **BDS** | SCAFFOLD
DESIGN
SPECIALISTS

T: 0800 270 7998 E: info@buckleydesigns.co.uk