

Lift Specifications

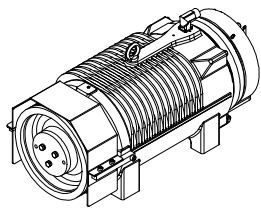
Customer	WITTUR UK
Order Number	-
Customer Reference	PL2 Great John Street

Lift System	MRL W Line
Standard	EN81/20-50 EN81/70
Reeving	2:1
Car Guide Rail	T90B
CW Guide Rail	T70/A
Layout Code	1000T
Building	RESIDENTIAL
Number of Stops	5
Rated Load [kg]	1000
Number of People	13
Rated Speed [m/s]	1
Ropes	Ø8
Rope Type	Drako 210TF
Compansation Chain	NO
Car Width [CIW] mm	1100
Car Depth [CID] mm	2100
Car Internal Height [CIH] mm	2100
Number of Access	1
Travel Height [LTH] mm	14640
Well Clear Width [SW] mm	1650
Well Clear Depth [SD] mm	2500
H.room Clear Height [b3] mm	3950
Used H.room Height	3950
Pit Clear Depth [d3] mm	1400

Landing Door Type	Hydra 11/L
Door Fire Rating	E120
Landing Door Width [CO] mm	900
Landing Door Height [CH] mm	2000
Number of Landing Door	5
Car Door Type	Hydra 12/L
Car Door Width [CO] mm	900
Car Door Height [CH] mm	2000
Number of Car Door	1

MOTOR

PROPERTIES	REEVING FACTOR
	2 : 1
CURRENT	21,9 A
FREQUENCY	31,83 Hz
RATED POWER	10 kW
SPEED	191 rpm
TYPE	WSG-MF.1-xE191
WEIGHT	235 Kg
VOLTAGE	400 V
PHASES	3
DUTY	S3-40%
STARTS/H	240
ENCLOSURE	IP 54
INSUL. CLASS	F
AMB. TEMP	40 °C
SHEAVE DIAMETER	320 mm
NUMBER OF POLES	16
NOMINAL TORQUE	500 Nm
MAXIMUM TORQUE	950 Nm



Balancing ratio(n)	%50
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CAR DOOR FIXING TYPE

Top Fixing	☒
Front Fixing	☐

OPERATION CARRIED OUT BY SIDE THE CONSTRUCTOR

Shaft Requirements

Shaft shall be made of reinforced concrete or filled concrete block with a thickness of min. 180mm and of C20/25 quality. Where the quality is inferior, chemical anchors must be used.

Shaft Temperature to be maintained between +5 and +40deg C, Humidity must not exceed 95%.

Ventilation:

A natural shaft ventilation equivalent to 1% of the shaft horizontal surface must be provided at the top of the shaft unless prescribed differently by local building code.

Lighting:

The well shall be provided with permanently installed electrical lighting, in accordance with local electrical regulation A minimum of 50 lux of illumination of the car roof and 20 lux elsewhere. The illumination of the machine room/controller cabinet must be 200 lux min.

Work onsite will not commence unless these requirements are fulfilled:

- The lift well and the pit are dry and clean.
- The lift well is constructed in accordance with Wittur's specifications.
- The lifting eyes are installed at the top of the shaft and tagged with maximum load.
- The power supply is available where indicated on the lift drawings, isolated and protected by differential.

A storage area suitable for the lift equipment has been defined.

EXECUTION

If reduced headroom;

According to EN81-21 standard, foldable balustrade, foldable buffer under the counter weight sling should be used. Mono-stable contact needed on landing doors at all floors. Additional top final limit switch needed. 1 green and 1 red lamp located each in the headroom.

Legend/Key			
CW	Counterweight	SW	Well Clear Width
CIW	Car Internal Width	SD	Well Clear Depth
CID	Car Internal Depth	DBG	Distance Between Guide Rail
CIH	Car Internal Height	CH	Clear Height
LOP	Landing Operation Panel	CO	Clear Opening
LIP	Landing Information Panel	FFL	Finished Floor Level
TY	Type	WW	Wall To Wall
LTH	Travel Height	Q	Rated Load
		F	Force

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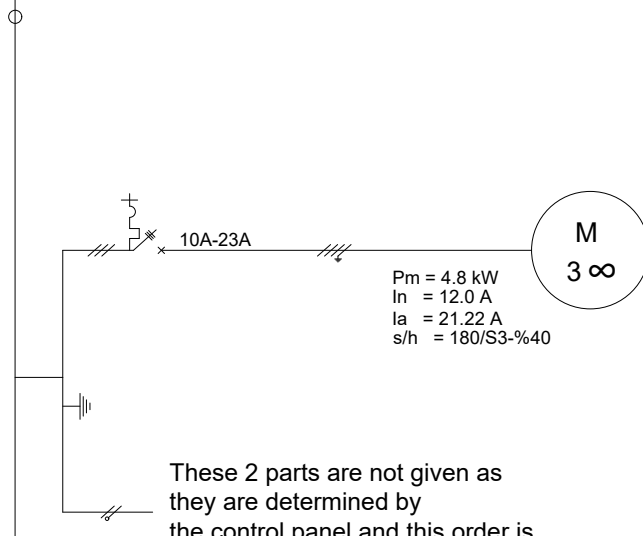
17-MAR-2021
Gilbert-Ash
BOUCHER ROAD

Electrical Requirements

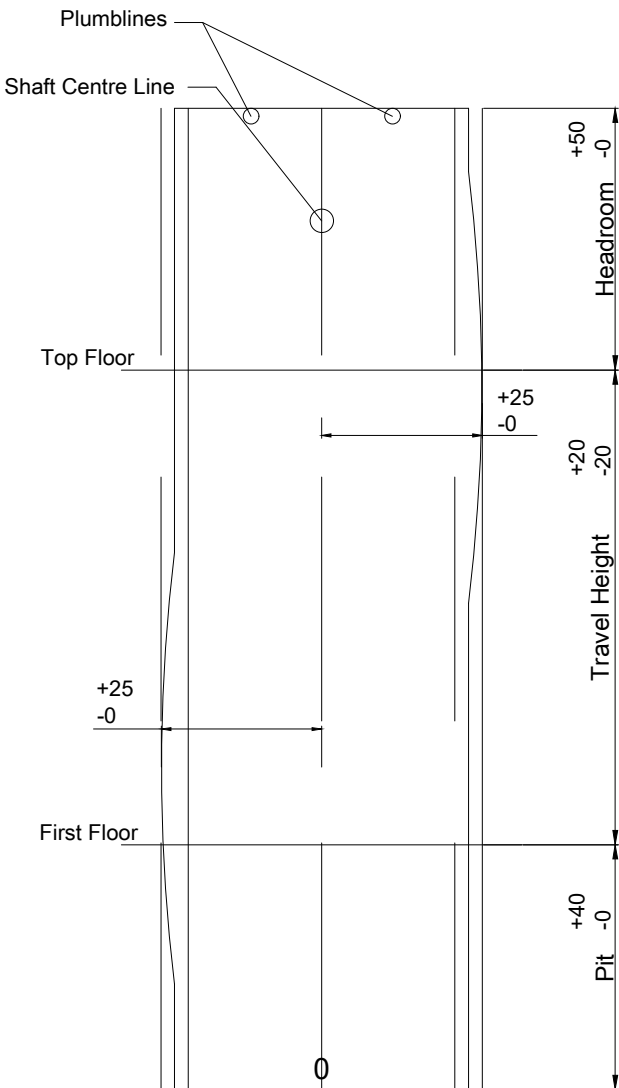
By Site Electrician

By Lift Installers

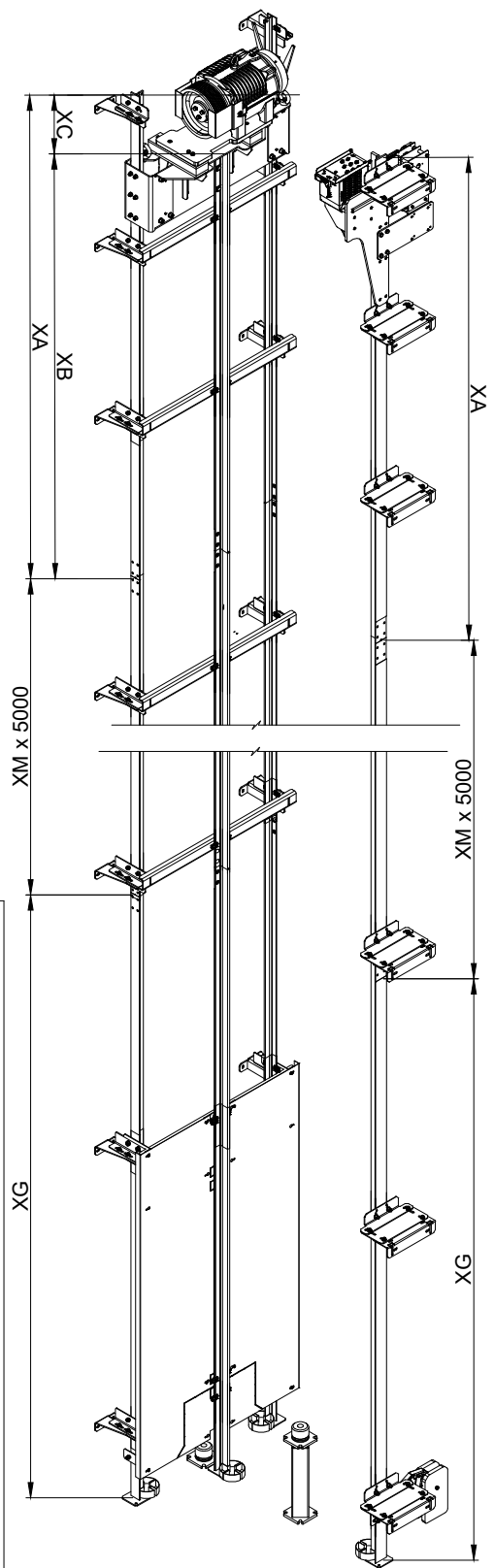
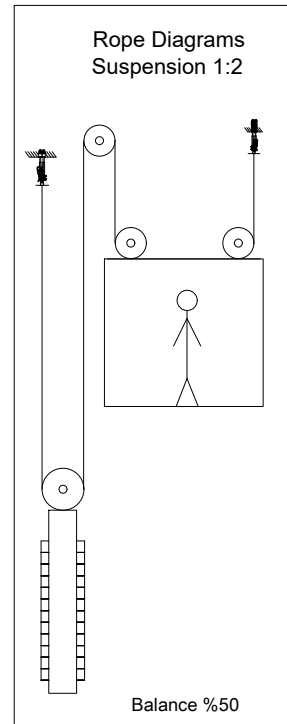
Site electrician side and controller side depends of controller options.



These 2 parts are not given as they are determined by the control panel and this order is mechanically packed.



Shaft Tolerances



Customer Logo		Drawing Nr : 418 154EMK
		Drawing Date : 12.03.2021
		Designed by: EMRE KELEŞ

	Date	Name	Description	Checked by : ONUR KARAKOYUNLU	Date : 12.03.2021
Rev.01				Approved by : DURUSEL CAKA	Date : 12.03.2021
Rev.02					
Rev.03				Customer Signature:	Date :
Rev.04					

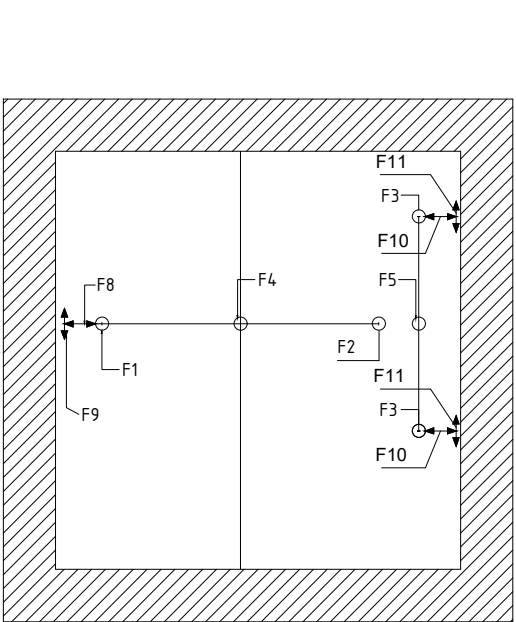
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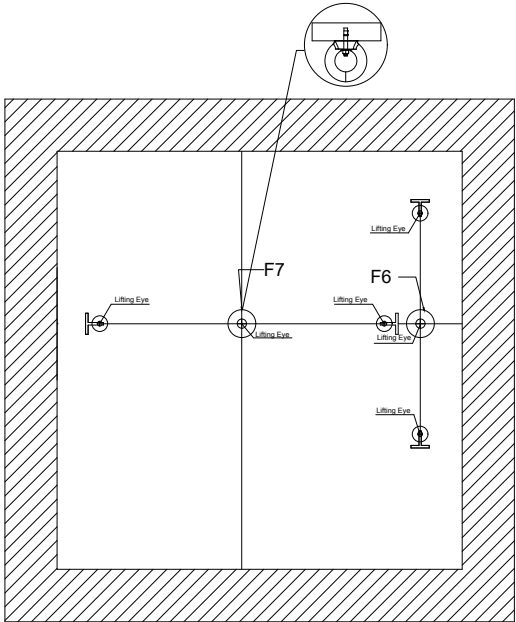
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MAXIMUM SHAFT FORCES FOR PIT,SHAFT CEILING AND SHAFT WALL



FORCES IN THE PIT

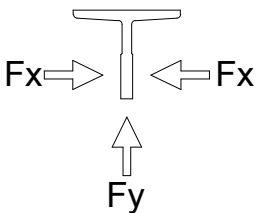
FORCES		
F1	15	kN
F2	41	kN
F3	6	kN
F4	88	kN
F5	68	kN
F6	17	kN
F7	28	kN
F8	1,5	kN
F9	2,3	kN
F10	1,1	kN
F11	2,3	kN



FORCES ON LIFTING EYES
IN THE SHAFT CEILING

Notes:

- 1-Lifting eyes to be installed by the builder.
- 2-Lifting eyes to be tested and tagged with maximum load.
- 3-Lifting eyes cannot be untightened by rotation.
- 4-Lifting eyes to be supplied by others and tested by others from scaffold platform by others.

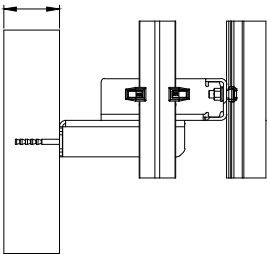


CAR GUIDE RAILS LOADS = $F_x = 804 \text{ N}$
 $F_y = 677 \text{ N}$

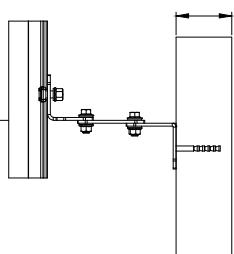
COUNTER WEIGHT RAILS LOADS = $F_x = 47 \text{ N}$
 $F_y = 248 \text{ N}$

DOWEL TYPE	
12x100 Dowel	
Wall Material	Concrete(non-cracked)
Wall Material Quality	Min. C20/25
Wall Min. Thickness	180

Thickness



Thickness



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Rev.03				Customer Signature	Date :
Rev.04					



Drawing Nr : 418 154EMK

Drawing Date : 12.03.2021

Designed by: EMRE KELEŞ

Safety Cube
Headroom side
700 x 500 x 1000

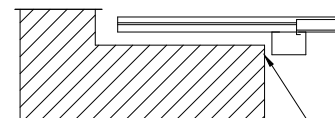
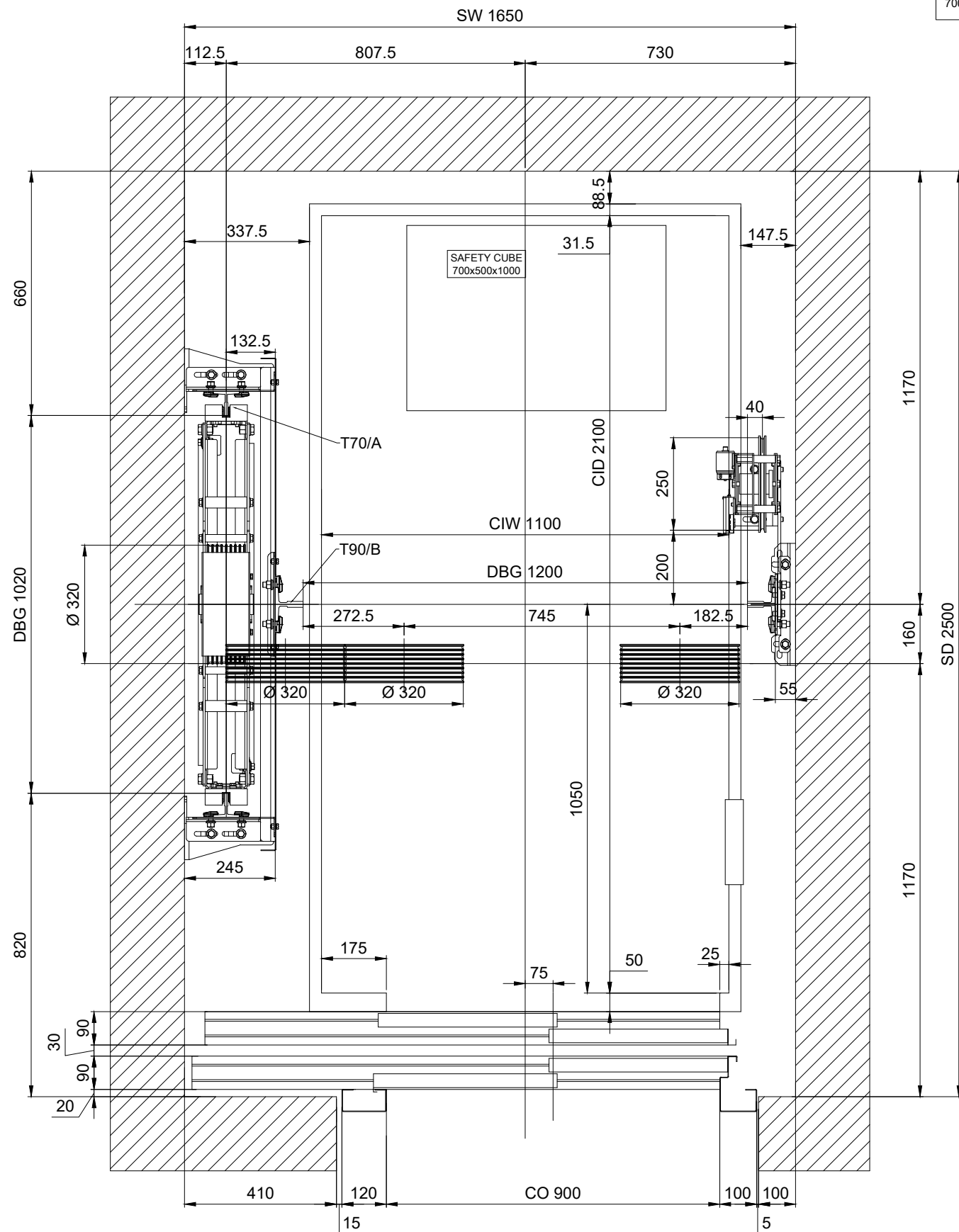


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To be filled by the builder with fire rated material to maintain 2 hours fire integrity of the shaft

SECTION HEADROOM
SCALE:1/5



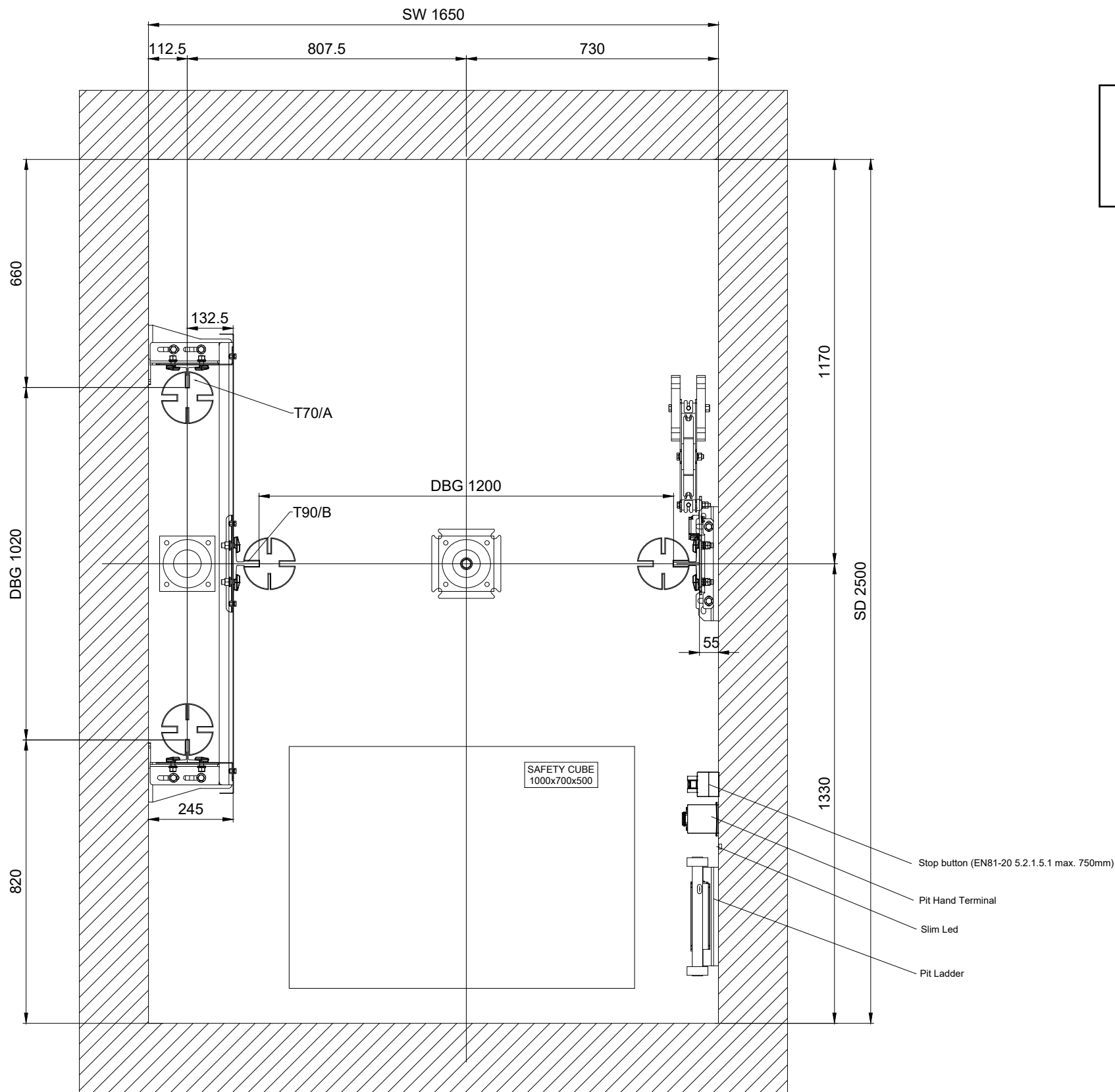
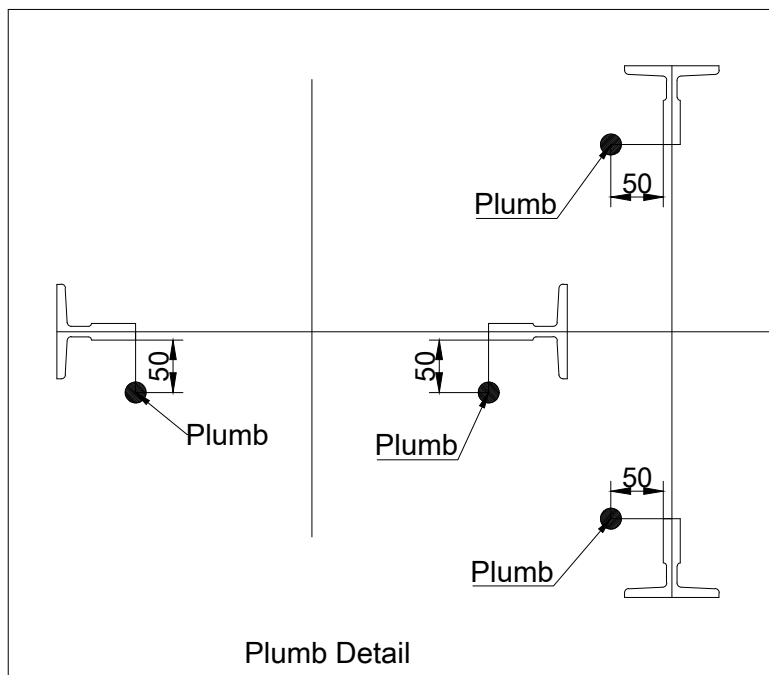
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Rev.03					
Rev.04					

Safety Cube
Pit side
1000 x 700 x 500



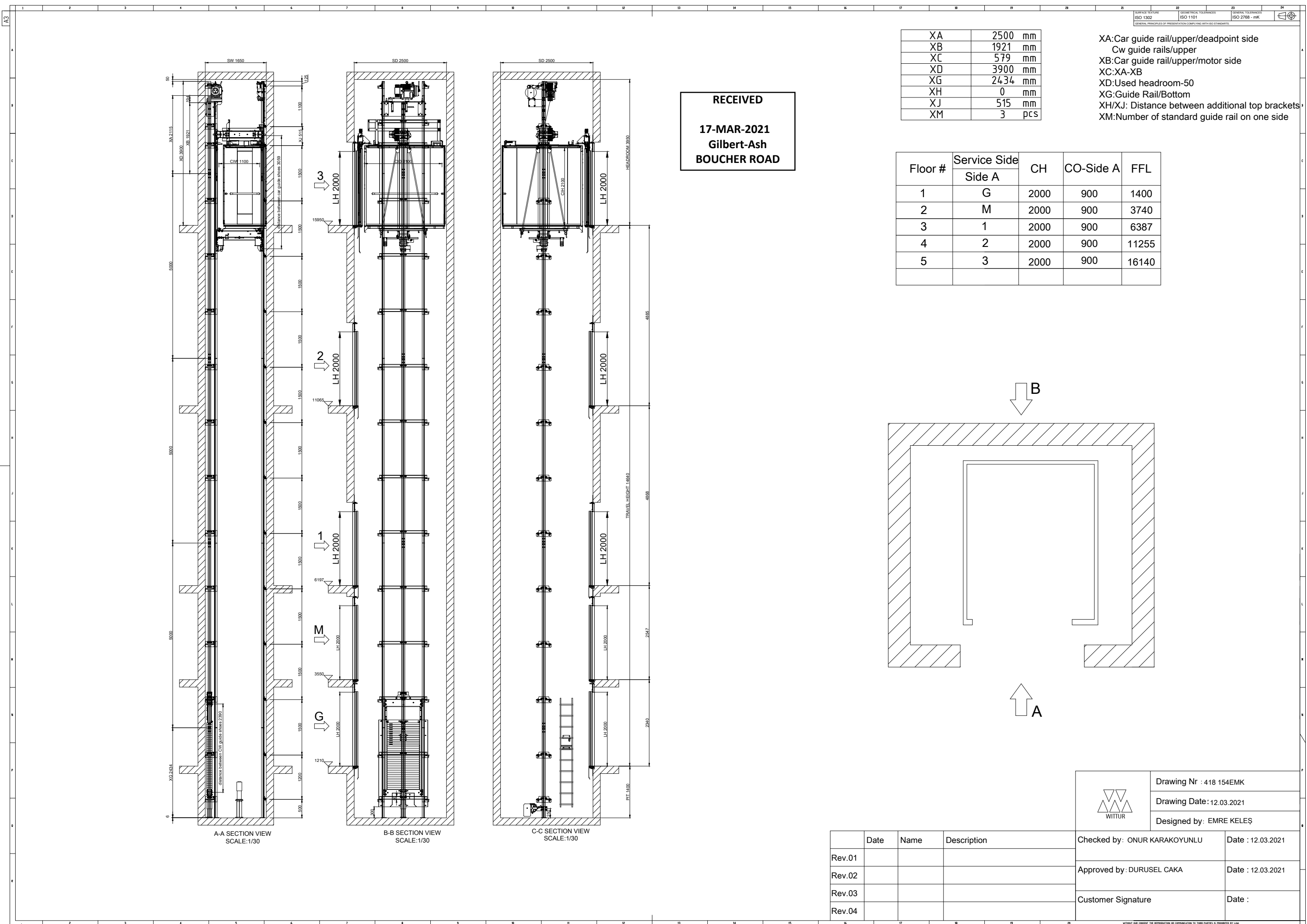
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SECTION PIT
SCALE:1/5



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The project has been designed according to EN81-20/50.
Safety balustrade should be used as foldable 1100mm length.

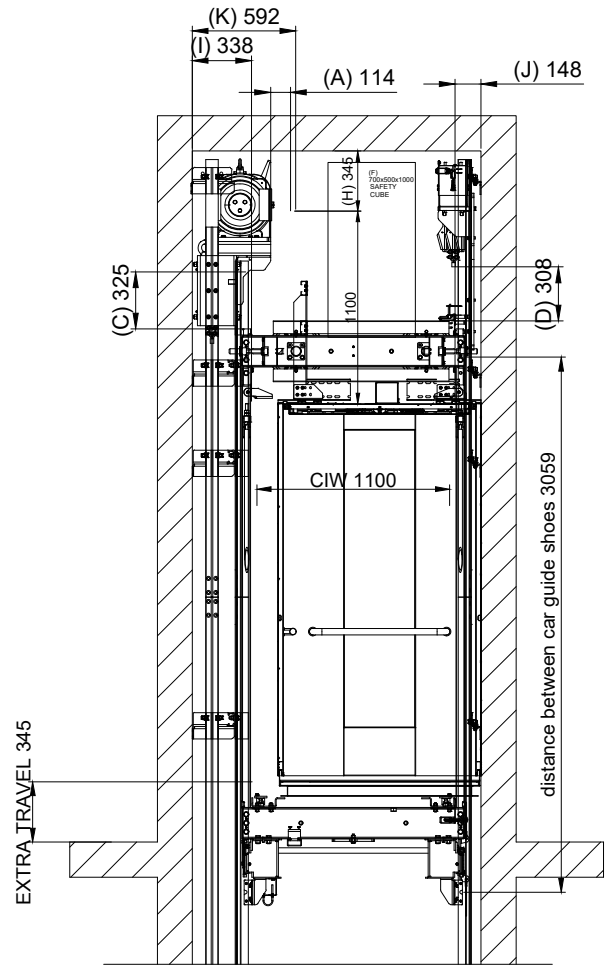
Acc. to defined scenario in EN 81 -20/50,over run (extra travel) value is 345 mm at bottom,255 mm at top.

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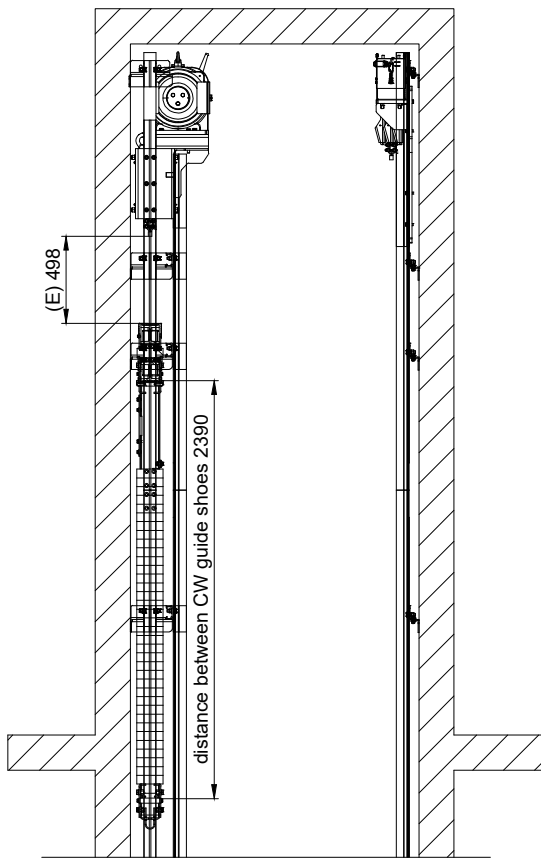
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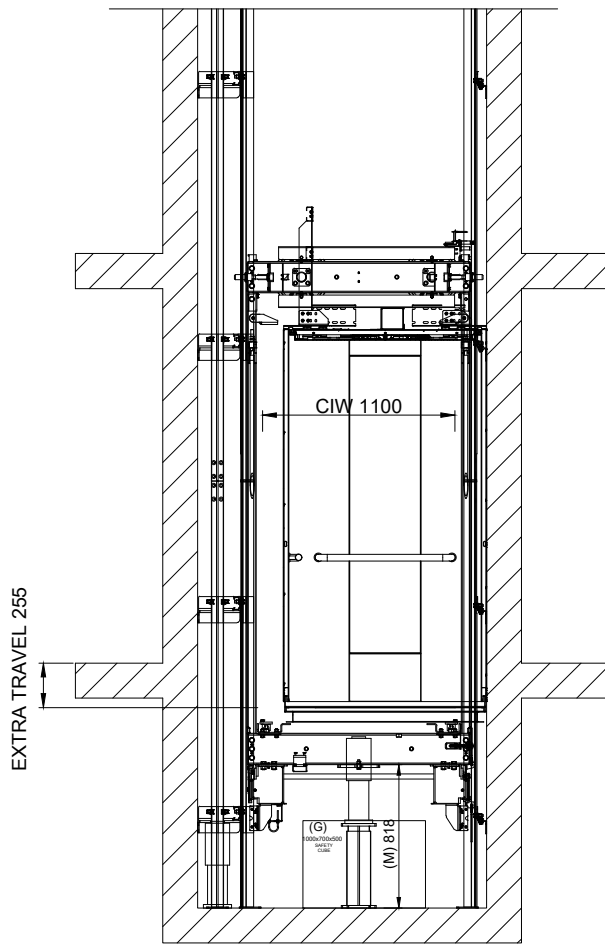
BOUCHER ROAD



CAR ON TOP FLOOR (OVER RUN)
SCALE 1/15



CW ON TOP FLOOR (OVER RUN)
SCALE 1/15



CAR ON FIRST FLOOR (OVER RUN)
SCALE 1/15

- A= EN 81-20 5.4.7.4 d (A ≥ 0,10m OK)
B= EN 81-20 5.4.7.4 d (B ≥ 0,10m OK)
C= EN 81-20 5.2.5.6.2 (C ≥ 0,10m OK)
D= EN 81-20 5.2.5.6.2 (D ≥ 0,10m OK)
E= EN 81-20 5.2.5.6.2 (F ≥ 0,10m OK)
F= EN 81-20 5.2.5.7.1 Tab3 Pos.2 (0,50m x 0,70m x1m OK)
G= EN 81-20 5.2.5.8.1 Tab4 Pos.3 (0,70m x 1m x 0,5m OK)
H= EN 81-20 5.2.5.7.2 c1 (H ≥ 0,30m OK)
I= EN 81-20 5.4.7.4 b (I >0,30m 700 mm Balustrade OK)
J= EN 81-20 5.4.7.4 b (J < 0,30m Balustrade NOK)
K= EN 81-20 5.4.7.4 b2 (K ≤0,50m 700 mm Balustrade OK)
L= EN 81-20 5.4.7.4 b1 (L ≤ 0,50m Balustrade NOK)
M= EN 81-20 5.2.5.8.2 a (M ≥ 0,50m OK)
- 1= Distance Between Guide Shoes For CW Sling
2= Distance Between Guide Shoes For Car Sling

CAR ON TOP FLOOR (REVISION)
SCALE 1/15

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WITTUR

Drawing Nr : 418 154EMK

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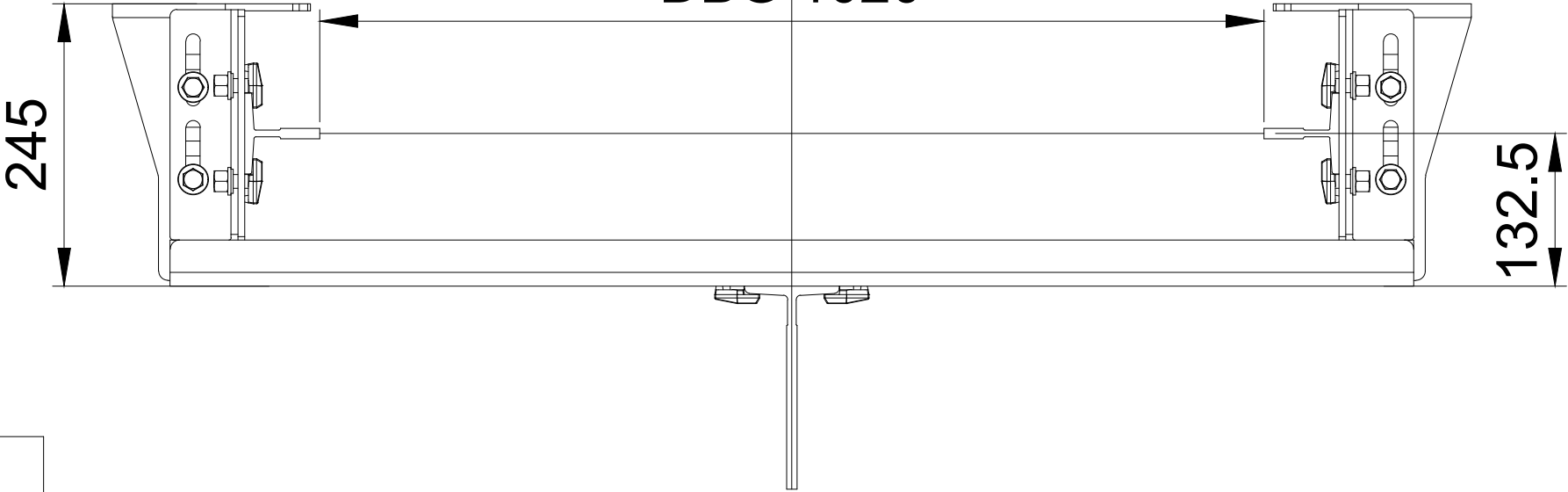
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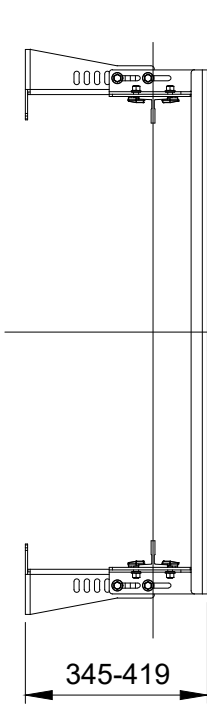
Drive Side Brackets

DBG 1020



GUIDE RAILS BRACKETS

n: Number of brackets



Drive Side Bracket / DBG 1020

Adjusting: 345-419 mm

Part Code: 5F2GRCWS206.V12

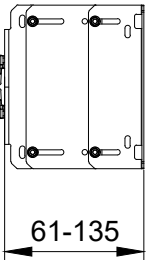
Number of Brackets: 14 pcs.

Drive Side Upper Bracket

Adjusting: 345-419 mm

Part Code: 5F2GRCWS206.V32

Number of Bracket: 1 pcs.



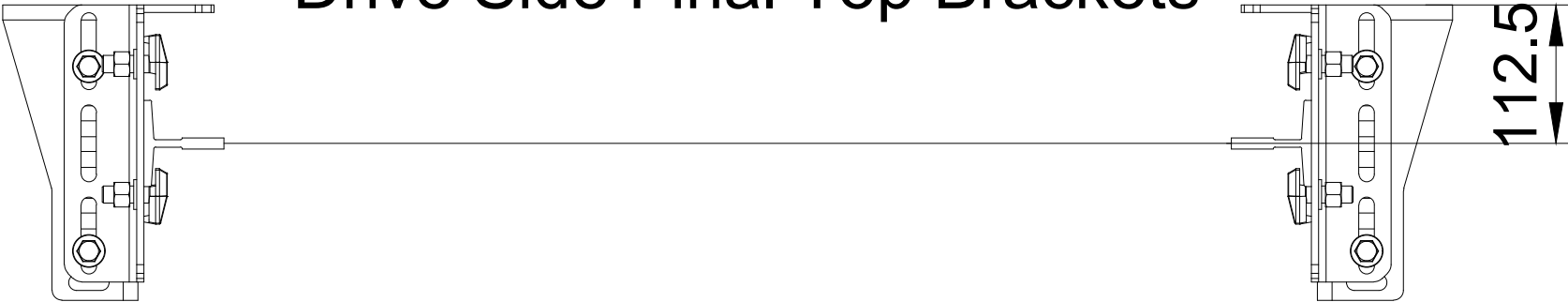
DeadPoint Side Bracket / T90

Adjusting: 61-135 mm

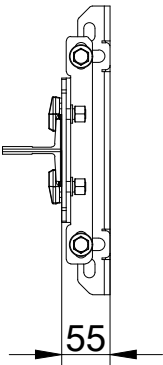
Part Code: 5F2DPB02.V02

Number of Brackets: 15 pcs.

Drive Side Final Top Brackets



Deadpoint Side Brackets



Drawing Nr : 418 154EMK

Drawing Date: 12.03.2021

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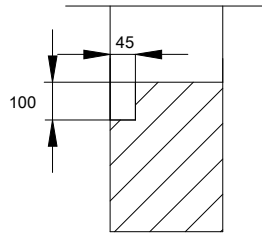
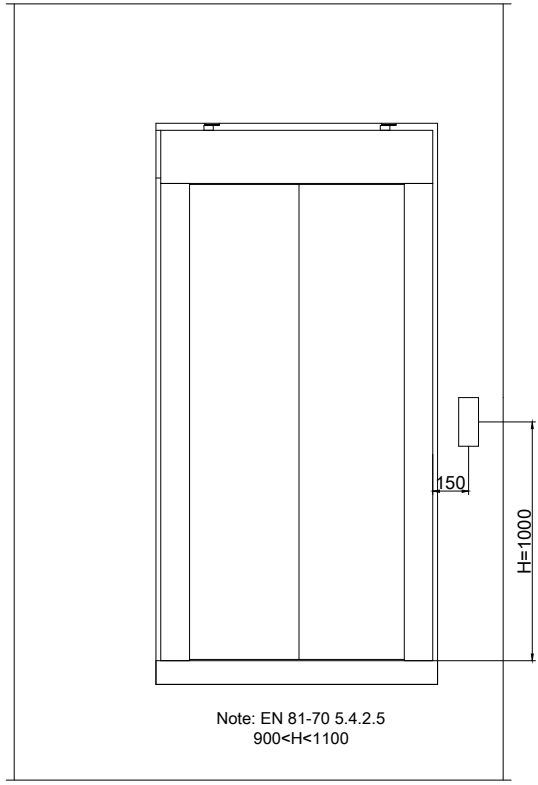
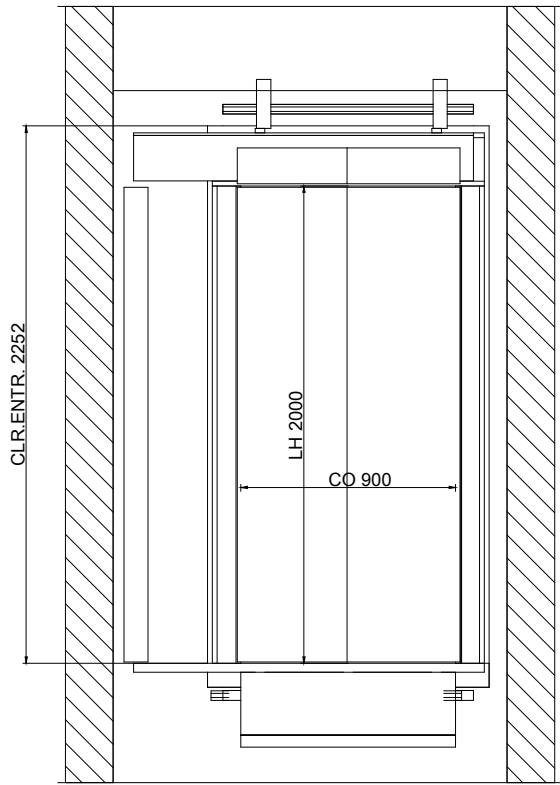
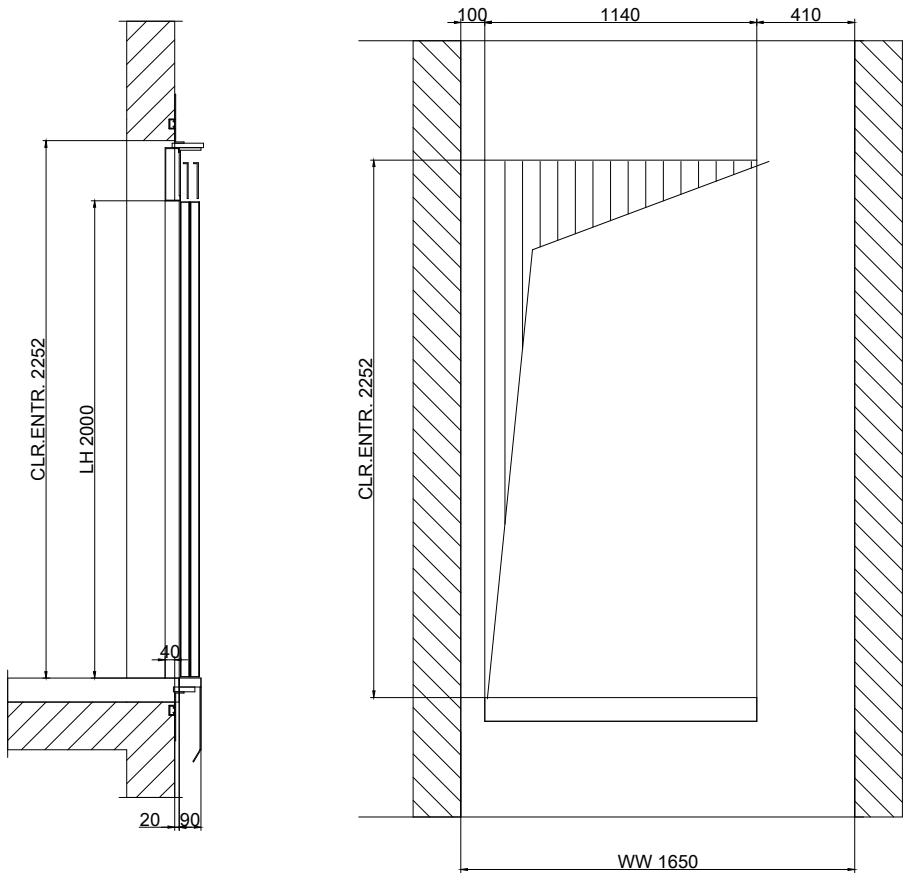
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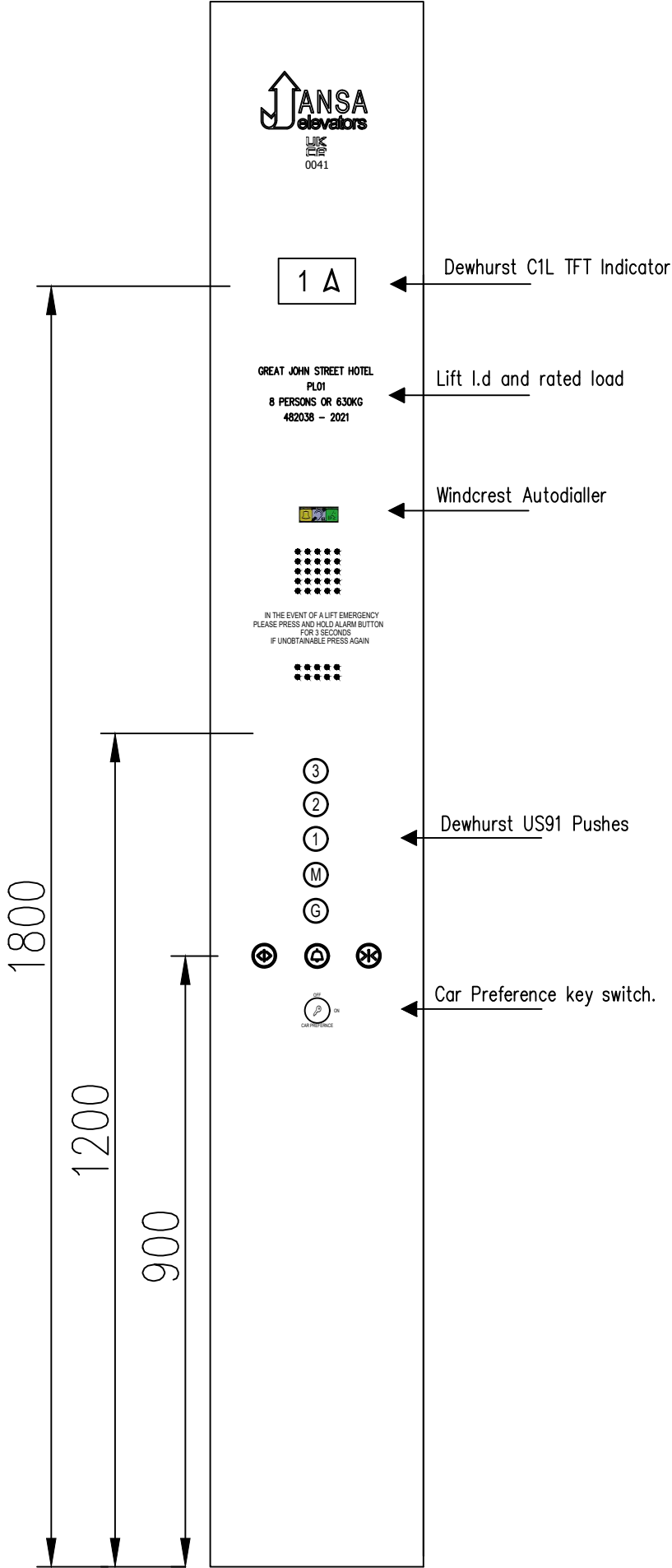


Detail

	Drawing Nr : 418 154EMK	
	Drawing Date: 12.03.2021	
	Designed by: EMRE KELEŞ	
Checked by: ONUR KARAKOYUNLU		Date : 12.03.2021
Approved by: DURUSEL CAKA		Date : 12.03.2021
Customer Signature		Date :

REV	DATE	DETAILS	DRAWN

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BOUCHER ROAD



All Dimensions from FFL.

	ALL DIMENSIONS IN MM UNLESS STATED	CHECKED GK	NOT TO SCALE	Indicative Car Operating Panel.		
		DRAWN EL	DATE 26.03.2021	DRG. NO. 482038 - 4	Sheet 1 of 1	REV -

SITE ADDRESS	Great John Street Hotel Manchester
CLIENT	

CEILING

BLACK ALUMINIUM SUSPENDED CEILING WITH CIRCULAR WHITE ALUMINIUM CEILING WITH A BLACK PAINTED FACE FINISH WITH DIFFUSED AREA ON THE SIDE OF THE BLACK FACE WITH LED LIGHTING TO INSIDE HOUSING AND OVERSPILL LIGHTING TO SIDES OF FLATBOX CEILING WITH A 3 HOUR EMERGENCY TO 1 UNIT WITH LIVE SWITCH CAPACITY.

TRIMS

LACQUERED BRASS (TO MATCH WALLS) 300mm SKIRTING AND TOP TRIM WITH DRAPE PROVISION IF REQUIRED INCLUDING LOW HIGH HIDDEN VENTILATION.

REAR WALL FINISH

FULL HEIGHT REAR WALL CENTRAL PANEL BE SILVER TINT FOIL BACKED SAFETY MIRROR.
FULL HEIGHT REAR WALL SIDE PANELS TO BE LINED LACQUERED BRASS.

SIDE WALL FINISHES

FULL HEIGHT SIDE WALL PANELS TO BE LINED IN LACQUERED BRASS.

ALL WALLS TO BE LINED IN CLASS C FIRE RETARDANT MDF.

HAND RAILS

CONTINUOUS 42mm DIAMETER HAND RAIL BRASS EFFECT STAINLESS STEEL IN GRADE 304 FINISH TO ALL 3 WALLS WITH WALL RETURNS AT ENDS. SIDE HAND RAILS TO BE MOUNTED ON BOSSES THAT ARE FIXED TO WALL DIRECTLY.

CAR OPERATING PANEL

NEW CAR OPERATING PANEL MANUFACTURED FROM BACK PAINTED GLASS DESIGN IN JET BLACK RAL 9005 COLOUR FROM AGREED SKETCH AND FITTED WITH FREE ISSUE EQUIPMENT.

CAR FRONTAGE

CAR FRONTAGE TO BE RE-SKINNED / CLAD TO THE SAME PROFILE AS EXISTING IN LACQUERED BRASS TO MATCH WALL PANELS.

CAR DOORS (OPTIONAL)

EXISTING LIFT CAR DOORS & LANDING DOORS TO BE RE-SKINNED / CLAD TO THE SAME PROFILE IN LACQUERED BRASS.

FLOOR

FLOORING FINISH BY OTHERS.

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BOUCHER ROAD

HIDDEN
VENTILATION

TOP TRIM
DRAPE

HIDDEN
VENTILATION

900mm

300mm



PLEASE NOTE THIS DRAWING IS INDICATIVE ONLY

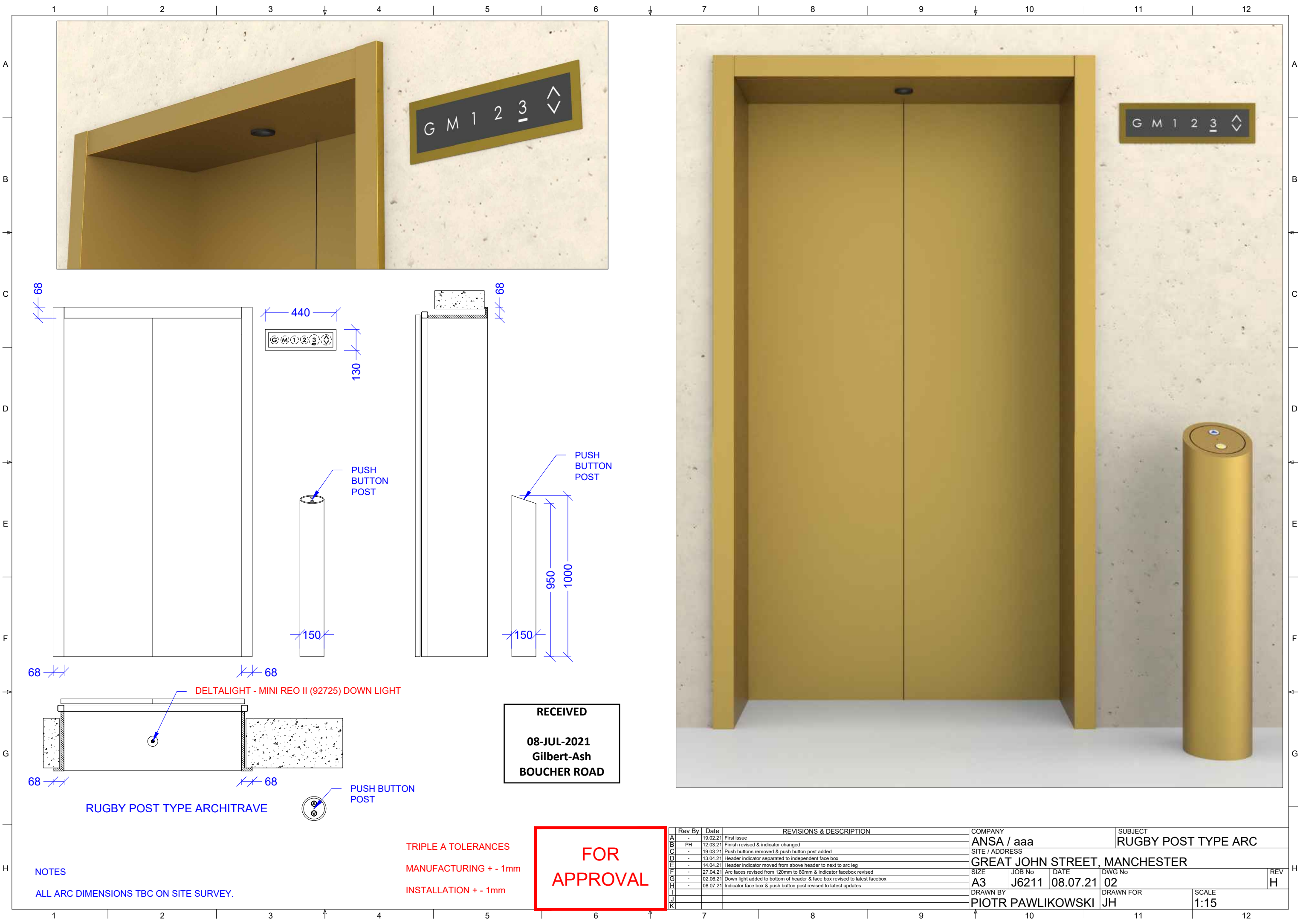
TRIPLE A TOLERANCES

MANUFACTURING + - 1mm

CONSTRUCTION + - 1mm

FOR
APPROVAL

REVISIONS & DESCRIPTION			RELATED DWG'S		COMPANY		SUBJECT	
A	HOME TO DATE (14-02-21)		0000000 00-00-00		ANSA / aaa		SINGLE ENTRY LIFT CGI	
B	CEILING CHANGED, WALL FINISH REVISED & COP MADE FLUSH (19-03-21)				SITE / ADDRESS		GREAT JOHN STREET, MANCHESTER	
C	HAND RAIL MADE CONTINUOUS, CEILING REVISED TO SUSPENDED OVERSPILL & REAR MIRROR ROUNDED (25.03.21)				SIZE		DATE	
D					A3		25-03-21	
E					JOB No		DWG No	
F					Q14064		01	
G					DRAWN BY		SCALE	
H					PIOTR PAWLKOWSKI		JH	
I							REV	
J							C	
K								



TRIPLE A TOLERANCES
MANUFACTURING + - 1mm
INSTALLATION + - 1mm

FOR
APPROVAL

Rev	By	Date	REVISIONS & DESCRIPTION
A	-	19.02.21	First issue
B	PH	12.03.21	Finish revised & indicator changed
C	-	19.03.21	Push buttons removed & push button post added
D	-	13.04.21	Header indicator separated to independent face box
E	-	14.04.21	Header indicator moved from above header to next to arc leg
F	-	27.04.21	Arc faces revised from 120mm to 80mm & indicator facebox revised
G	-	02.06.21	Down light added to bottom of header & face box revised to latest facebox
H	-	08.07.21	Indicator face box & push button post revised to latest updates
I			
J			
K			

COMPANY			SUBJECT		
ANSA / aaa			RUGBY POST TYPE ARC		
SITE / ADDRESS					
GREAT JOHN STREET, MANCHESTER					
SIZE	JOB No	DATE	DWG No		REV
A3	J6211	08.07.21	02		H
DRAWN BY		DRAWN FOR		SCALE	
PIOTR PAWLIKOWSKI		JH		1:15	