

NOTES

ALL DIMENSIONS IN mm UNLESS OTHERWISE SPECIFIED

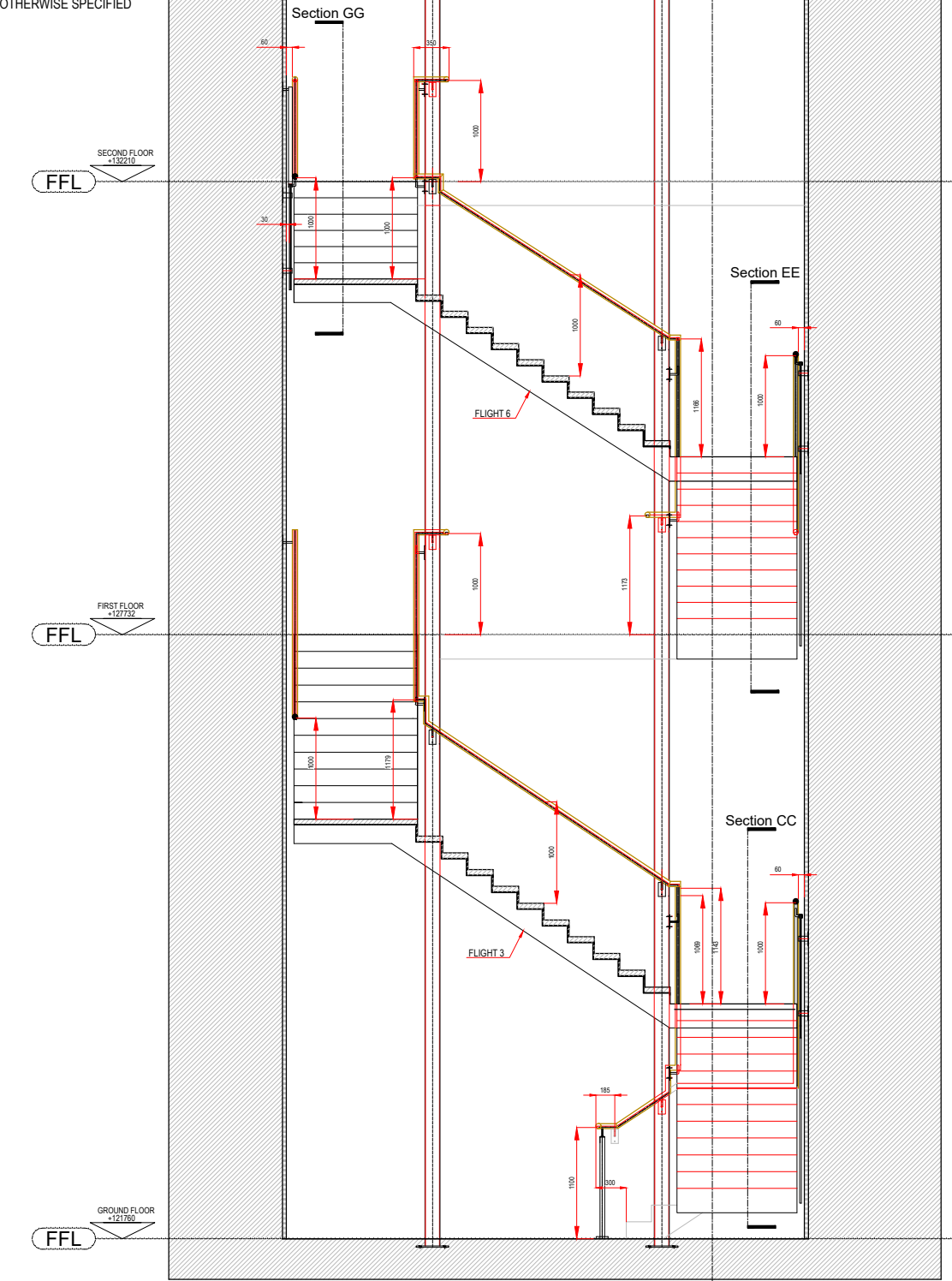
ALL WELDS FULL PROFILE 6MM
FILLET WELDS UNLESS OTHERWISE SPECIFIED

ALL WELD SIZES ARE THROAT WELD SIZES

STEEL TO BE BS EN10025 S355

FIXINGS TO BE 8.8G UNLESS OTHERWISE SPECIFIED

Donald Insall Associates Chartered Architects and Historic Building Consultants			
Review of this drawing is solely for the purpose of ascertaining conformity with the basic design concept, profile, general arrangement and general compliance with the information contained in the contract documents and does not release the Consultant/Contractor/Builder/Contractor/Trade Contractor of any design responsibilities defined in the contract documents.			
A	No Comments		
B	As noted		
C	As noted		
D	As noted		
Date Received: 16/07/23		Date Returned: 28/07/23	
Checked by: SDB			



NOTES

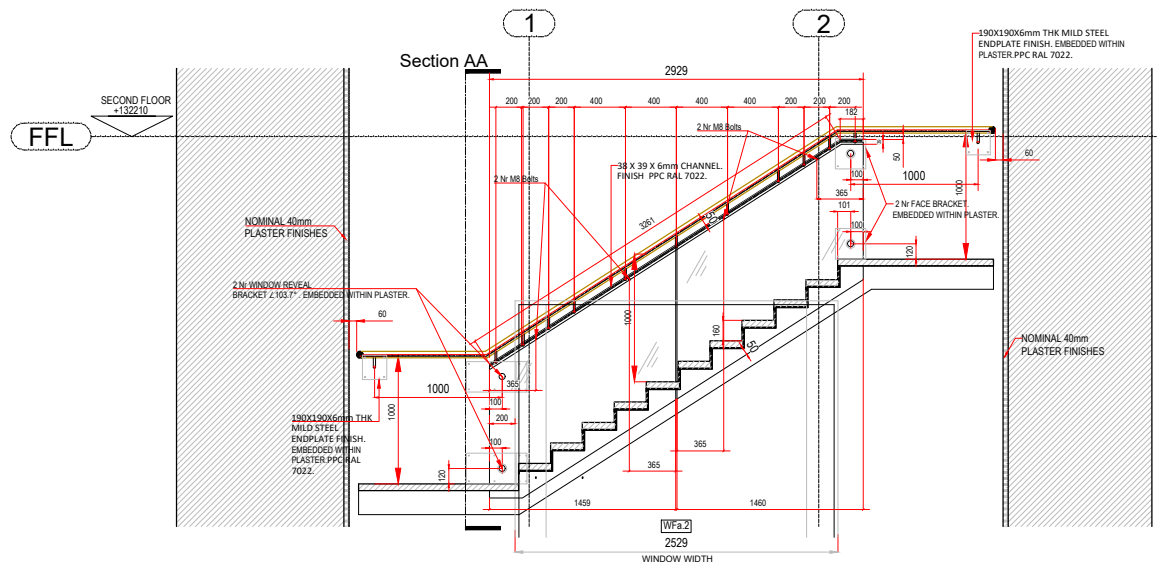
ALL DIMENSIONS IN mm UNLESS OTHERWISE SPECIFIED

ALL WELDS FULL PROFILE 6MM
FILLET WELDS UNLESS OTHERWISE SPECIFIED

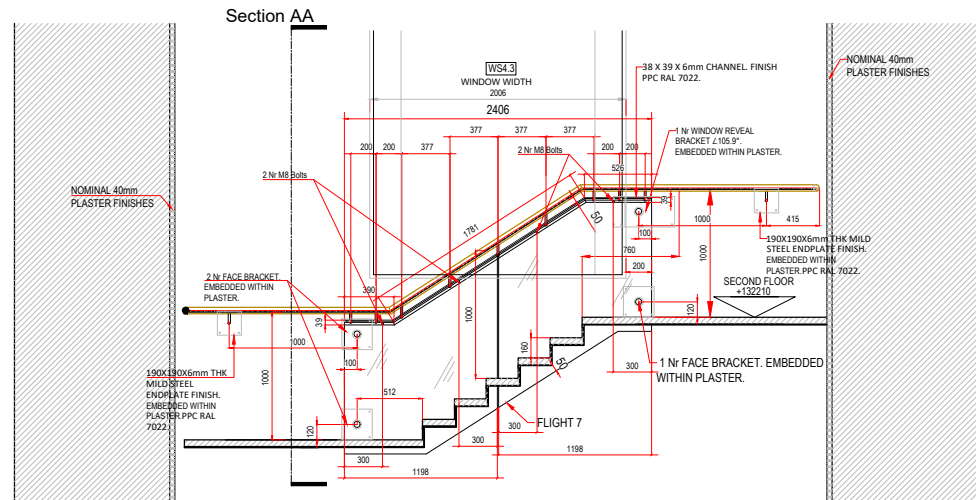
ALL WELD SIZES ARE THROAT WELD SIZES

STEEL TO BE BS EN10025 S355

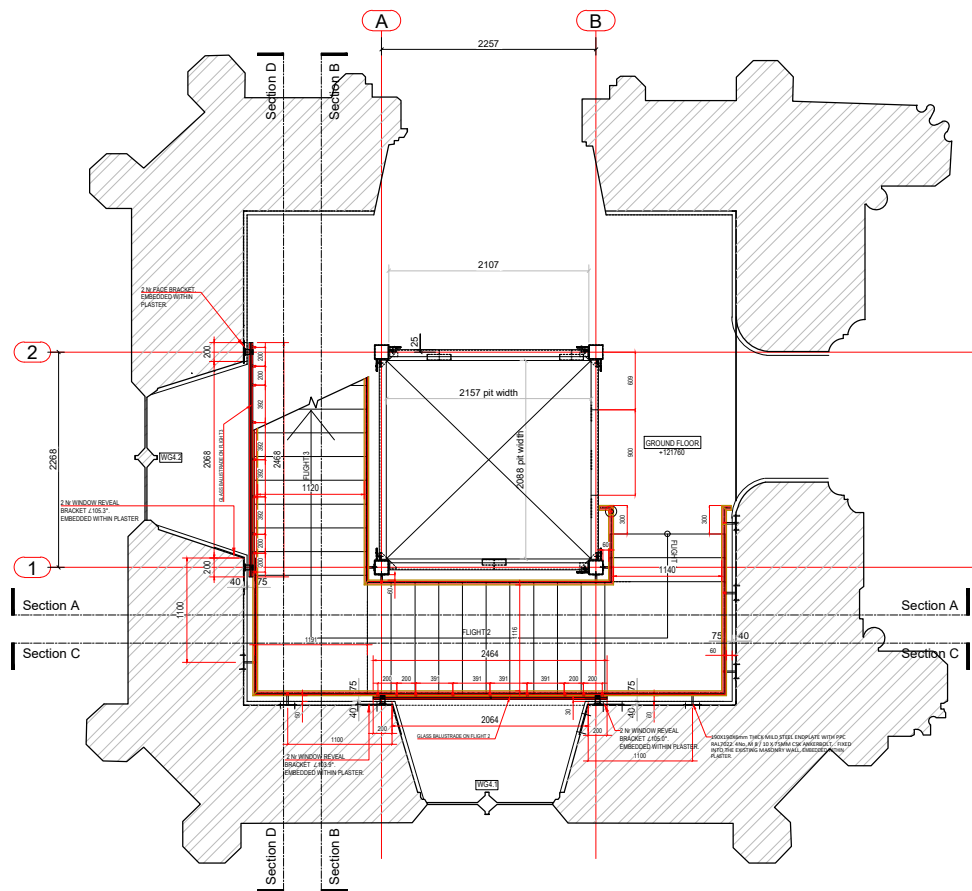
FIXINGS TO BE 8.8G UNLESS OTHERWISE SPECIFIED



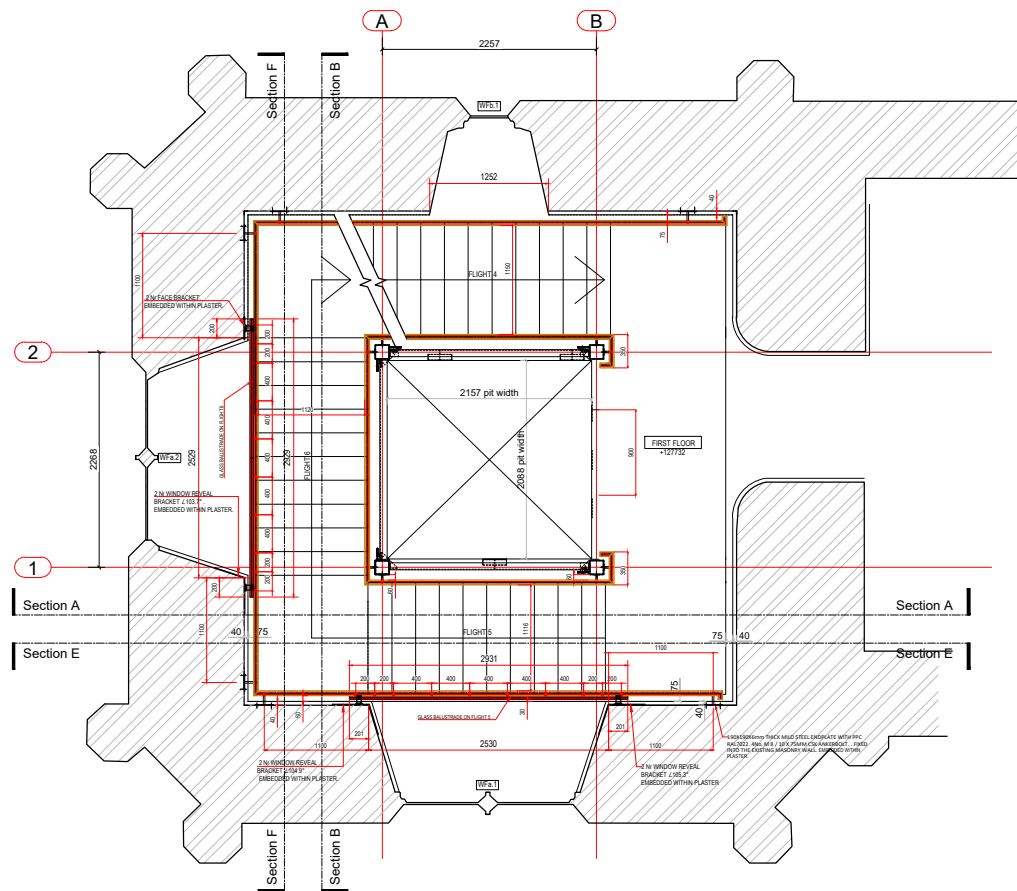
CLOCK TOWER / Section F-F on Flight 7



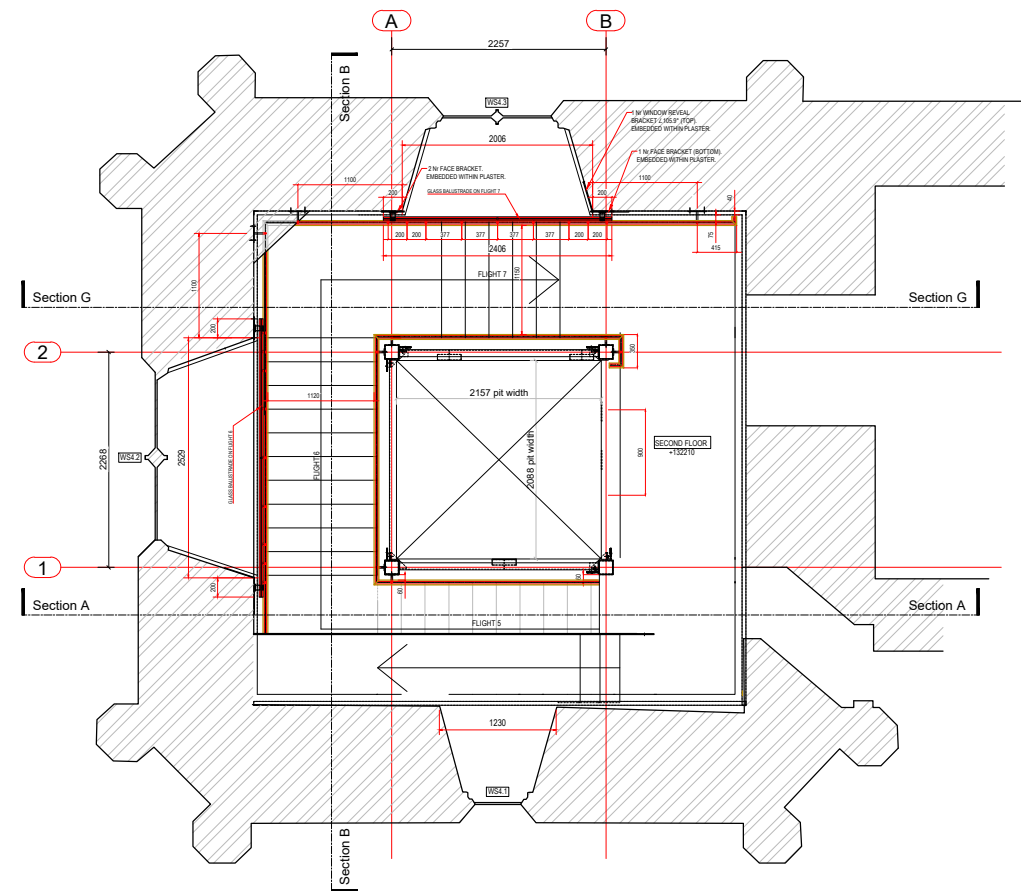
CLOCK TOWER / Section G-G on Flight 7



CLOCK TOWER / Ground Floor Plan



CLOCK TOWER / First Floor Plan



CLOCK TOWER / Second Floor Plan

POWDER COAT FINISH TO ALL STEELWORK
RAL 7022

MANUFACTURED TO EXC CLASS 2

REV	DATE	AMENDMENT	DRN	CHKD	APP
P01	30/03/23	FIRST ISSUE	JB	LJ	
P02	26/04/23	DESIGN MODIFICATIONS BASED ON ARCHITECT AND ENGINEER COMMENTS	JB	D LJ	
P03	16/06/23	DESIGN MODIFICATIONS BASED ON ENGINEER COMMENTS	JB	D LJ	
P04	26/06/23	DESIGN MODIFICATIONS BASED ON ARCHITECT AND ENGINEER COMMENTS	JB	D LJ	
P05	17/07/23	DESIGN MODIFICATIONS BASED ON ARCHITECT AND ENGINEER COMMENTS	JB	MP	

SCALE @A3	DRAWN BY JB 30/03/23	CHECKED BY DJ 30/03/23
--------------	-------------------------	---------------------------

Morgan Bros.

METALWORK SOLUTIONS Ltd.

UNIT 1, CHAPEL LANE BUSINESS PARK,
CHORLEY, LANCASHIRE, PR7 4NB
E-MAIL: sales@morgan-bros.co.uk
TEL: (01257)264041 FAX: (01257)241092

APPROVAL

REV: P05

All dimensions to be checked by the appointed contractors prior to any work commencing on site. Any discrepancies to be informed immediately to Morgan Bros.

DO NOT SCALE
This drawing is subject to copyright. Morgan Bros LTD. ©

CLIENT
H. H. SMITH
PROJECT
ROCHDALE TOWN HALL
TITLE
CLOCK TOWER
BALUSTRADE DESIGN

DRAWING NUMBER
002

MB70071

SHEET
2 of 3

PROJECTION
2 of 3

TYPICAL GLASS BALUSTRADE DETAIL

190X190X6mm THICK MILD STEEL
ENDPLATE FINISH PPC RAL 7022. 4No. M 8
/ 10 X 75MM CSK ANKERBOLT. . FIXED
INTO THE EXISTING MASONRY WALL.
EMBEDDED WITHIN PLASTER.

40 NOMINAL 40mm
PLASTER FINISHES

FINISHED WALL

1000

25

190

190

1000

DOWNING FROM FT. TO CENTRE OF STRUCTURAL 200X 50 BAR

DETAIL 1

Ø50mm OAK HANDRAIL.
LOCALIZED WELDED SHEAR KEYS @ 400
CENTRES GLUED INTO OAK.

25X25mm MILD STEEL BAR INSERT
ROUTED INTO OAK. FINISH PPC RAL 7022.

FOLDED Ø16mm MILD STEEL BAR.
WELDED TO HANDRAIL 25X25 INSERT BAR
AND 38X39X6mm STRUCTURAL RAIL
CHANNEL. FINISH PPC RAL 7022.

Ø8 / M4 INTERNAL THREADED SLEEVE. 2Nr
M4 X 16mm.

38 X 39 X 6mm THICK STEEL FOLDED
CHANNEL. FINISH PPC RAL 7022.

100mm DISTANCE TO MASONRY CORNER

3 X 6mm FULLY TOUGHENED HEAT
SOAKED GLASS LAMINATE WITH 1.52mm
SENTRYGLAS INTERLAYER.

700X240X8mm WINDOW REVEAL
BRACKET 304 STAINLESS STEEL FOLDED
FIXED TO THE WALL USING 8 Nr M 8 / 10 X
75MM CSK ANKERBOLT. EMBEDDED WITHIN
PLASTER. VARIOUS ANGLES CHECKED ON SITE.

Ø50mm 304 S/S GLASS ADAPTER WITH
50mm STANDOFF WELDED TO Ø70 X 8mm
304 S/S PACKING PLATE. FINISH PPC RAL
7022.

8 Nr M 8 / 10 X 75MM CSK ANKERBOLT.

100mm FROM PITCH LINE TO CENTER OF STRUCTURAL 200X 50 BAR

QUARTER LENGTH OF GLASS PANEL

380

100 60 200 20

50

70

240

120

200

MASONRY WALL

M4 bolt centred
between 16mm vertical
bars to nearest quarter
point, Tbc by DIA

HANDRAIL DETAIL

Technical drawing of a handrail detail. The drawing shows a cross-section of a handrail assembly. Key components and dimensions are labeled:

- Ø50mm OAK HANDRAIL.** LOCALIZED WELDED SHEAR KEYS @ 400 CENTRES GLUED INTO OAK.
- 25X25mm MILD STEEL BAR** INSERT ROUTED INTO OAK. FINISH PPC RAL 7022.
- FOLDED Ø16mm MILD STEEL BAR** WELDED TO HANDRAIL 25X25 INSERT BAR AND 38X38X6mm STRUCTURAL RAIL CHANNEL. PROTECTIVE PAINT COATING. FINISH PPC RAL 7022 .
- 70X140X6mm THICK** MILD STEEL ENDPLATE WITH FINISH PPC RAL 7022. 2No. M10 C5K FIXINGS.
- 150X150X5mm SHS.** STEEL LIFT CORE.

Dimensions shown:

- 140 (vertical dimension for the endplate)
- 70 (horizontal dimension for the endplate)

Additional notes:

- Is a c here
- MB to confirm if ro

[illegible]

M10
countersunk
grade A4
resin anchors
with Hilti
HIT-HY 270
resin +
HIT-SC sieve
sleeve. 50mm
embedment.

M 8 / 10 X 75MM CSK ANKERBOLT
10mm (8mm drill)



WINDOW REVEAL BRACKET DETAIL

ANGLE VARIES

700X240X8mm WINDOW REVEAL BRACKET 304 STAINLESS STEEL FOLDED FIXED TO THE WALL USING 8 Nr M 8 / 10 X 75MM CSK ANKERBOLT. EMBEDDED WITHIN PLASTER. VARIOUS ANGLES CHECKED ON SITE.

MASONRY WALL

DETAIL 2

Ø70 X 8mm 304 STAINLESS STEEL PACKING PLATE FULLY WELDED TO WALL PLATE.

NOMINAL 40mm PLASTER FINISHES

30 mm DISTANCE FROM GLASS PANEL TO FINISHED WALL.

Ø50mm OAK HANDRAIL. LOCALIZED WELDED SHEAR KEYS @ 400 CENTRES GLUED INTO OAK.

25X25mm MILD STEEL BAR INSERT ROUTED INTO OAK. FINISH PPC RAL 7022.

Ø50mm 304 S/S GLASS ADAPTER WITH 50mm STANDOFF WELDED TO Ø70 X 8mm 304 S/S PACKING PLATE. FINISH PPC RAL 7022.

DETAIL 2

Ø50mm OAK HANDRAIL.
LOCALIZED WELDED SHEAR KEYS
@ 400 CENTRES GLUED INTO OAK.

25X25 Mild Steel bar insert routed into oak.
FINISH PPC RAL 7022.

FOLDED Ø16mm MILD STEEL BAR
FINISH PPC RAL 7022.

38 X 39 X 6mm THICK STEEL
FOLDED CHANNEL
FINISH PPC RAL 7022.

to Sk GL
21 for weld
and spec

Ø70 X 8mm 304 STAINLESS STEEL
PACKING PLATE FULLY WELDED TO WALL PLATE.

Ø50mm 304 S/S GLASS ADAPTER
WITH 50mm STANDOFF WELDED TO Ø70 X 8mm
304 S/S PACKING PLATE. FINISH PPC RAL 7022.

700X240X8mm WINDOW REVEAL BRACKET 304 S/S
FOLDED FIXED TO THE WALL USING
8 Nr M 8 / 10 X 75MM CSK ANKERBOLT.
EMBEDDED WITHIN PLASTER. VARIOUS ANGLES CHECKED ON SITE.

3 X 6mm FULLY TOUGHENED
HEAT SOAKED GLASS LAMINATE
WITH 1.52mm SENTRYGLAS INTERLAYER.

Low iron, DIA to confirm

PLASTER FINISHES

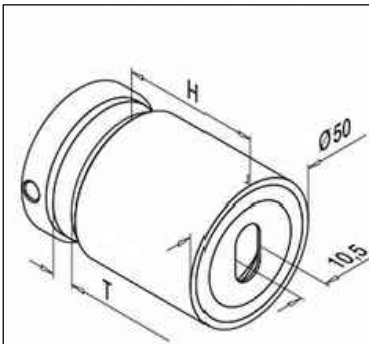
MASONRY WALL

Dimensions: 25, 23, 16, 82, 19, 38, 20, 40, 20, 39, 85, 28, 70, 240, 28, 20.

Refer to Sk GL
120-121 for weld
details and spec

Low iron, DIA to confirm

3 of 3



H: 50mm.