

LBC Condition 3(a) Supporting Information

Ref: LBC3(a)

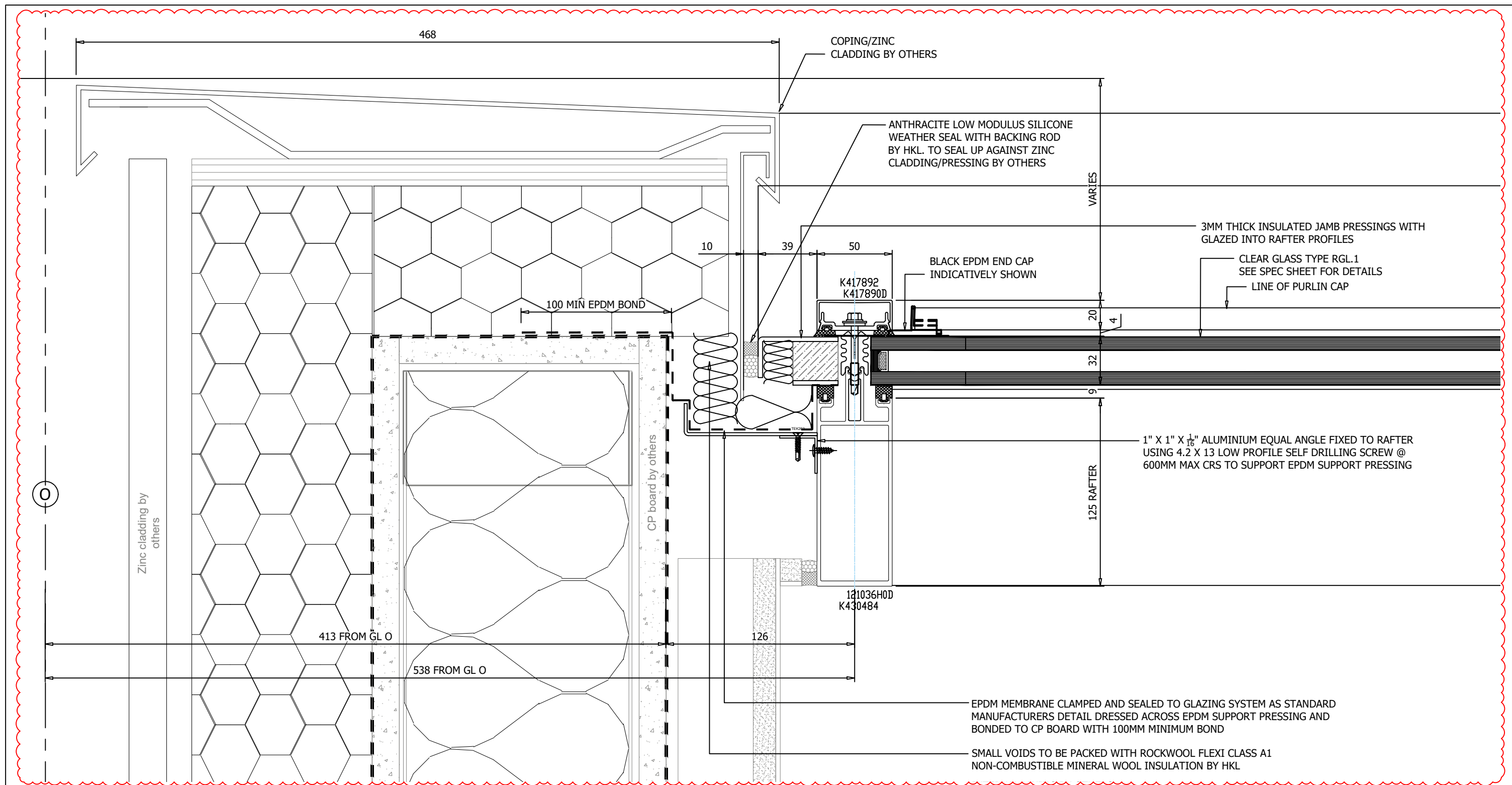
Date: 9 August 2023

Volume 1

1. Plant Screen Details
2. Replacement Rooflights
3. AOV Window Design
4. Lightwell Rooflight Plans

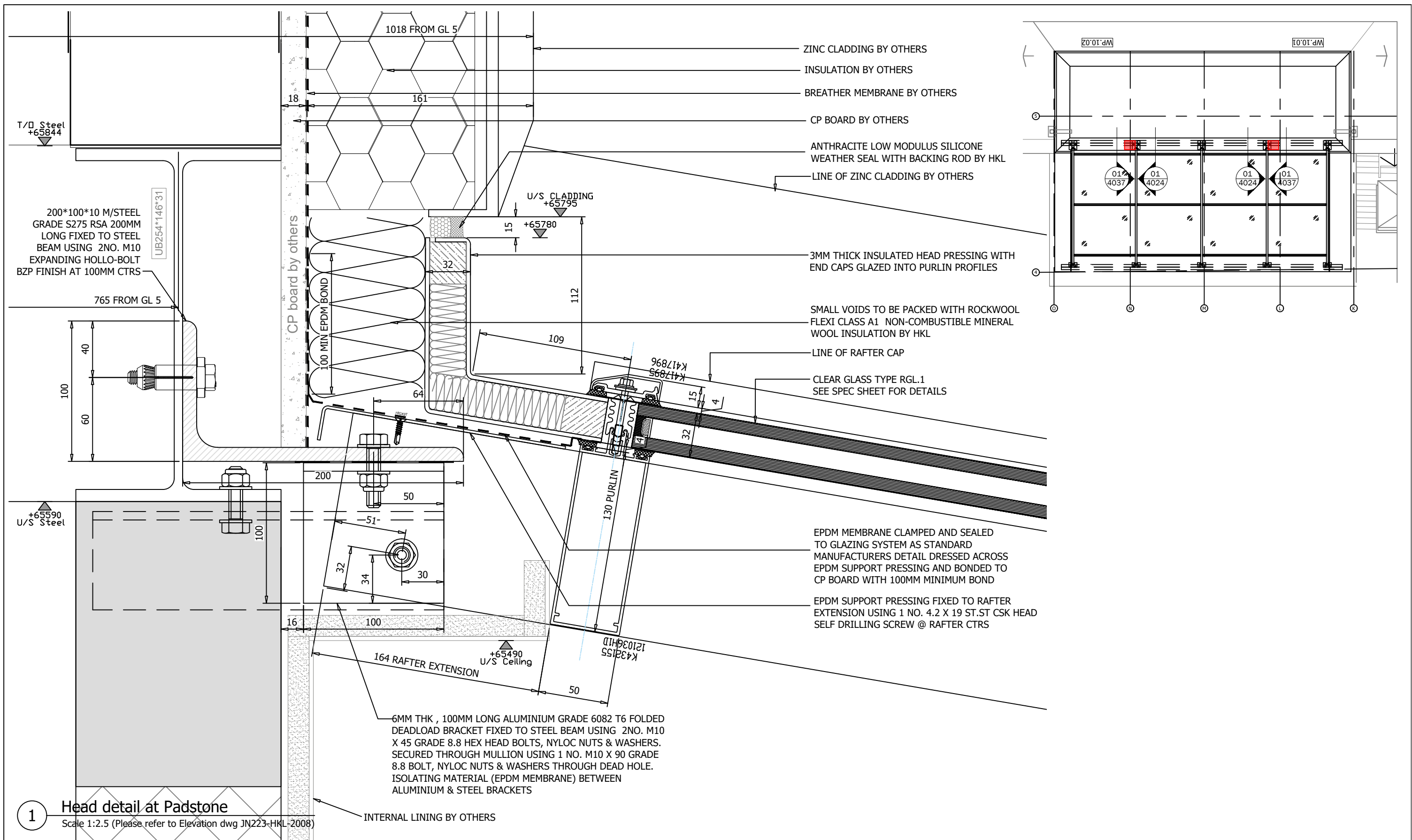
Volume 2

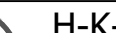
5. Access Ladder
6. Lightwell Enclosure Plans
7. Zinc Cladding Design
8. Mansard Rooflights
9. Roof hatch design
10. Tapered Insulation Design
11. Ventilated Ridge Details



7 Jamb rafter intermediate detail
Scale 1:2.5 (Please refer to Elevation dwg JN223-HKL-2008)

REVISIONS					NOTES	Client: Cubic Works		Drawn: MZ		H-K-L Specialists Ltd	
						Project: Princess Street, Manchester		Date: 01/10/22		Common Road, Huthwaite, Notts, NG17 2JT tel: 01623 550357 hello@hklspecialists.co.uk	
CHKD				DRAWING ISSUED FOR : CONSTRUCTION		Site: Manchester		Design Check: JP	CAD Ref: HKL/JN223/PSM/MASTERFILE		
CHKD						Title: Window Ref Rooflight		Scales: 1:2.5 @ A3		THIS DRAWING REMAINS THE PROPERTY OF J.P SPECIALIST GLAZING DESIGN LIMITED AND MAY NOT BE COPIED, REPRODUCED OR IT'S CONTENTS DIVULGED WITHOUT PRIOR WRITTEN CONSENT FROM HKL SPECIALISTS LIMITED.	
01	09.12.22	JP	REVISED TO COMMENTS / ISSUED FOR CONSTRUCTION			JAMB RAFTER INTERMEDIATE DETAIL		Project/Drawing No.: JN223-HKL-4030		Revision: 01	
CHKD											
00	04.10.22	MZ	ISSUED FOR APPROVAL								
CHKD											



REVISIONS				 NOTES DRAWING ISSUED FOR : CONSTRUCTION	Client: Cubic Works		Drawn: MZ		H-K-L Specialists Ltd Common Road, Huthwaite, Notts, NG17 2JT tel: 01623 550357 hello@hklspecialists.co.uk	
					Project: Princess Street, Manchester		Date: 01/10/22			
CHKD					Site: Manchester		Design Check: JP		CAD Ref: HKL/JN223/PSM/MASTERFILE	
CHKD					Title: Window Ref Rooflight HEAD DETAIL AT PADSTONE		Scales: 1:2.5 @ A3		THIS DRAWING REMAINS THE PROPERTY OF J.P SPECIALIST GLAZING DESIGN LIMITED AND MAY NOT BE COPIED, REPRODUCED OR ITS CONTENTS DIVULGED WITHOUT PRIOR WRITTEN CONSENT FROM HKL SPECIALISTS LIMITED.	
CHKD										
00	24.02.23	JP	ISSUED FOR CONSTRUCTION				Project/Drawing No.: JN223-HKL-4037		Revision: 00	
CHKD										



Cubicworks
Spinnaker Court 31
Broadway
Salford
United Kingdom
M50 2YR

Our Reference
107140/99/1/14

Subject
40-46 Princess Street

10 March 2022

For the attention of Chris Quirk,

Please find enclosed Caice GA drawings Rev A.1 issued for your comment and approval.

If you are able to return comments by 16/03/22 if possible please that would enable us to maintain the next booked draughting slot on this project.

Yours faithfully,

Matt Chamberlain
Senior Project Manager

Direct Dial 0118 918 6499
Mobile 07769 974529
E-Mail matt.chamberlain@caice.co.uk

Cc:

Andy McKee, Cubicworks



Document Transmittal

Project Number	Project	Client
107140	40 - 46 Princess Street	Cubeworks

Drawing No.	Title	Revision	Status
07140-GEN-0001	General Arrangement, PLS.50 Weather Louvre Screen, Plan & Elevation Views	A.1	
07140-GEN-0002	General Arrangement, PLS.50 Weather Louvre Screen, Section and Detail Views	A.1	

Date Issued

Day
Month
Year

10				
3				
22				

Name	Company	Method of Issue
Andy Mckee	Cubeworks	EM
Chris Quirk	Cubeworks	EM

Issued For

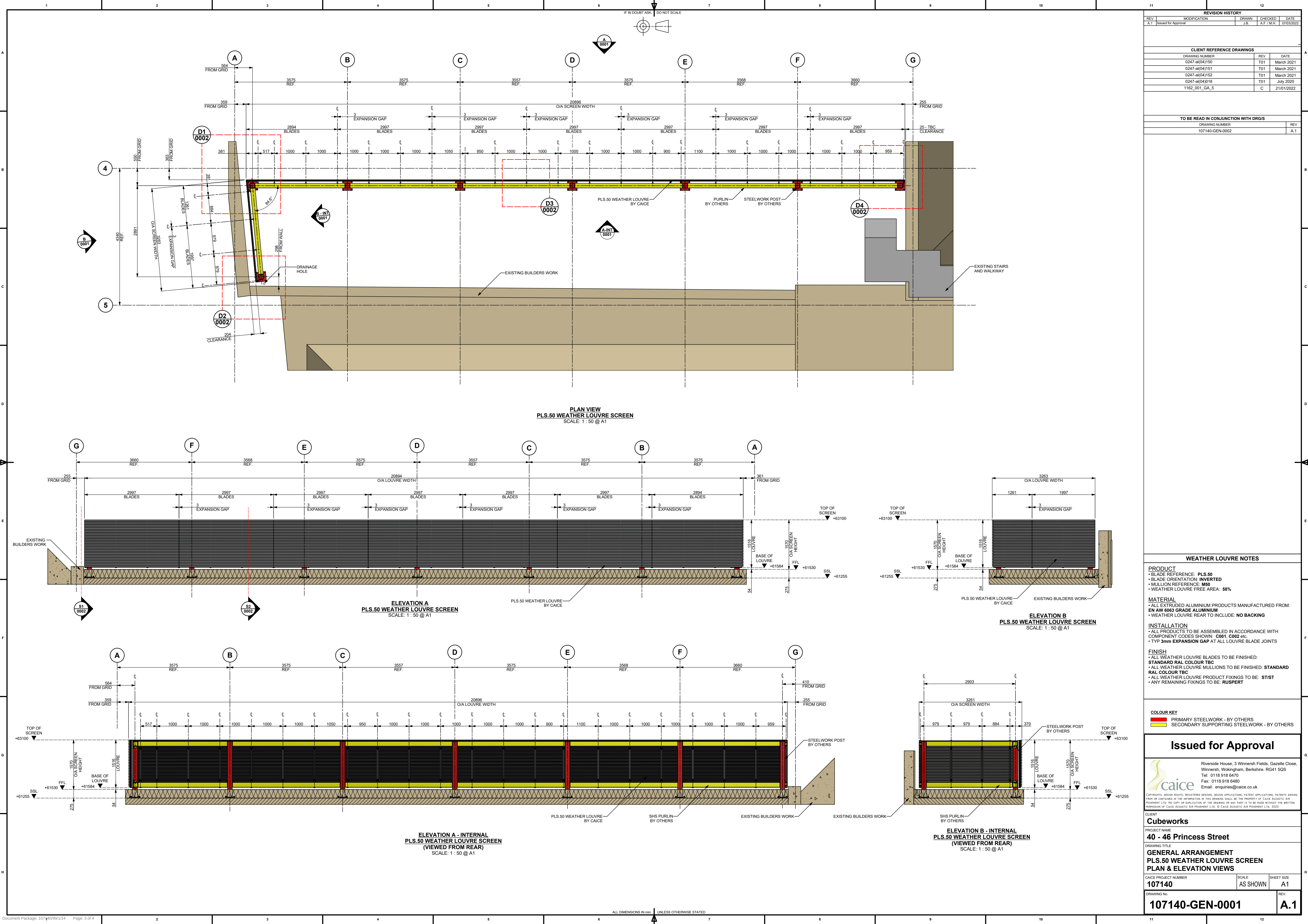
A				
---	--	--	--	--

Key

T	Tender	A	Approval
P	Preliminary	C	Construction
i	Information	AB	As Built

Status A	Drawing fully approved no further comments, progressed to manufacture.
Status B	Drawing approved based upon implementation of comments, progressed to manufacture.
Status C	Drawing not approved, not progressed to manufacture.





REVISION HISTORY				
REV	MODIFICATION	DRAWN	CHECKED	DATE
A.1	Issued for Approval	J.B.	A.F. / M.H.	07/03/2022

CLIENT REFERENCE DRAWINGS		
DRAWING NUMBER	REV	DATE
0247-ai(04)150	T01	March 2021
0247-ai(04)151	T01	March 2021
0247-ai(04)152	T01	March 2021
0247-ai(04)018	T01	July 2020
1162_001_GA_5	C	21/01/2022

TO BE READ IN CONJUNCTION WITH DRG/S	
DRAWING NUMBER	REV
107140-GEN-0002	A.1

WEATHER LOUVRE NOTES

PRODUCT

- BLADE REFERENCE: **PLS.50**
- BLADE ORIENTATION: **INVERTED**
- MILLION REFERENCE: **M50**
- WEATHER LOUVRE FREE AREA: **58%**

MATERIAL

- ALL EXTRUDED ALUMINIUM PRODUCTS MANUFACTURED FROM: **EN AW 6063 GRADE ALUMINIUM**
- WEATHER LOUVRE REAR TO INCLUDE: **NO BACKING**

INSTALLATION

- ALL PRODUCTS TO BE ASSEMBLED IN ACCORDANCE WITH COMPONENT CODES SHOWN: **C001, C002** etc.
- TYP **3mm EXPANSION GAP** AT ALL LOUVRE BLADE JOINTS

FINISH

- ALL WEATHER LOUVRE BLADES TO BE FINISHED: **STANDARD RAL COLOUR TBC**
- ALL WEATHER LOUVRE MULLIONS TO BE FINISHED: **STANDARD RAL COLOUR TBC**
- ALL WEATHER LOUVRE PRODUCT FIXINGS TO BE: **ST/ST**
- ANY REMAINING FIXINGS TO BE: **RUSPERT**

COLOUR KEY

- PRIMARY STEELWORK - BY OTHERS
- SECONDARY SUPPORTING STEELWORK - BY OTHERS

Issued for Approval

 Riverside House, 3 Winnersh Fields, Gazelle Close, Winnersh, Wokingham, Berkshire. RG41 5QS
Tel: 0118 918 6470
Fax: 0118 918 6480
Email: enquiries@caice.co.uk

COPYRIGHTS, DESIGN RIGHTS, REGISTERED DESIGNS, DESIGN APPLICATIONS, PATENT APPLICATIONS, PATENTS ARISING FROM OR CONTAINED IN THE INFORMATION IN THIS DRAWING SHALL BE THE PROPERTY OF CAICE ACOUSTIC AIR MOVEMENT LTD. NO COPY OR REPRODUCTION OF THE DRAWING OR ANY PART IS TO BE MADE WITHOUT THE WRITTEN PERMISSION OF CAICE ACOUSTIC AIR MOVEMENT LTD. © CAICE ACOUSTIC AIR MOVEMENT LTD. 2020

CLIENT
Cubeworks

PROJECT NAME
40 - 46 Princess Street

DRAWING TITLE
**GENERAL ARRANGEMENT
PLS.50 WEATHER LOUVRE SCREEN
PLAN & ELEVATION VIEWS**

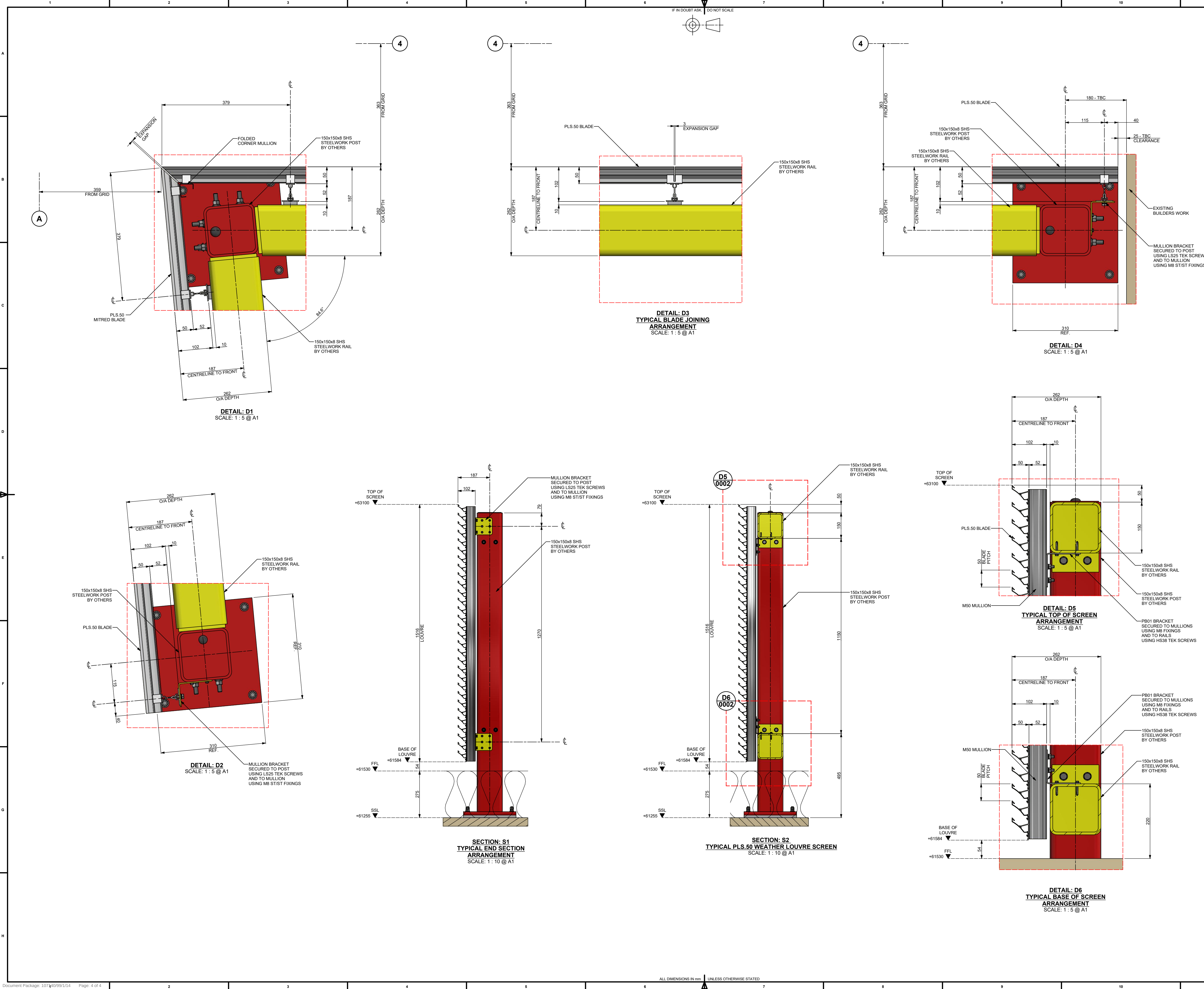
CAICE PROJECT NUMBER
107140

SCALE
AS SHOWN

SHEET SIZE
A1

DRAWING NO.
107140-GEN-0001

REV.
A.1



REVISION HISTORY			
REV	MODIFICATION	DRAWN	CHECKED
A.1	Issued for Approval	J.B.	A.F. / M.H.

CLIENT REFERENCE DRAWINGS		
DRAWING NUMBER	REV	DATE
0247-ai(04)150	T01	March 2021
0247-ai(04)151	T01	March 2021
0247-ai(04)152	T01	March 2021
0247-ai(04)018	T01	July 2020
1162_001_GA_5	C	21/01/2022

TO BE READ IN CONJUNCTION WITH DRG'S	
DRAWING NUMBER	REV
107140-GEN-0001	A.1

WEATHER LOUVRE NOTES

- PRODUCT**
- BLADE REFERENCE: **PLS.50**
 - BLADE ORIENTATION: **INVERTED**
 - MULLION REFERENCE: **M50**
 - WEATHER LOUVRE FREE AREA: **58%**

- MATERIAL**
- ALL EXTRUDED ALUMINIUM PRODUCTS MANUFACTURED FROM: **EN AW 6063 GRADE ALUMINIUM**
 - WEATHER LOUVRE REAR TO INCLUDE: **NO BACKING**

- INSTALLATION**
- ALL PRODUCTS TO BE ASSEMBLED IN ACCORDANCE WITH COMPONENT CODES SHOWN: **C001, C002** etc.
 - **TYP 3mm EXPANSION GAP** AT ALL LOUVRE BLADE JOINTS

- FINISH**
- ALL WEATHER LOUVRE BLADES TO BE FINISHED: **STANDARD RAL COLOUR TBC**
 - ALL WEATHER LOUVRE MULLIONS TO BE FINISHED: **STANDARD RAL COLOUR TBC**
 - ALL WEATHER LOUVRE PRODUCT FIXINGS TO BE: **ST/ST**
 - ANY REMAINING FIXINGS TO BE: **RUSPERT**

- COLOUR KEY**
- PRIMARY STEELWORK - BY OTHERS
 - SECONDARY SUPPORTING STEELWORK - BY OTHERS

Issued for Approval

 Riverside House, 3 Winnersh Fields, Gazette Close, Winnersh, Wokingham, Berkshire. RG41 5QS
Tel: 0118 918 6470
Fax: 0118 918 6480
Email: enquiries@caice.co.uk

COPYRIGHTS, DESIGN RIGHTS, REGISTERED DESIGNS, DESIGN APPLICATIONS, PATENT APPLICATIONS, PATENTS ARISING FROM OR CONTAINED IN THE INFORMATION IN THIS DRAWING SHALL BE THE PROPERTY OF CAICE ACOUSTIC AIR MOVEMENT LTD. NO COPY OR REPRODUCTION OF THE DRAWING OR ANY PART IS TO BE MADE WITHOUT THE WRITTEN PERMISSION OF CAICE ACOUSTIC AIR MOVEMENT LTD. © CAICE ACOUSTIC AIR MOVEMENT LTD. 2020

CLIENT		
Cubeworks		
PROJECT NAME		
40 - 46 Princess Street		
DRAWING TITLE		
GENERAL ARRANGEMENT PLS.50 WEATHER LOUVRE SCREEN SECTION & DETAIL VIEWS		
CAICE PROJECT NUMBER	SCALE	SHEET SIZE
107140	AS SHOWN	A1
DRAWING NO.	REV.	
107140-GEN-0002	A.1	

CONSERVATION ROOF WINDOWS



Conservation Window

FAKRO has an extensive range of conservation roof windows and also routinely manufactures products to bespoke design requirements. The characteristic features of such windows are their black vertical mullion bar, cladding and flashing (to RAL9005) but from a user's perspective they offer all of our standard features and contemporary interior styling. As such, we offer a choice of natural pine, white PU-coated pine and PVC windows.

Whether for a listed building or a traditional barn conversion, FAKRO conservation style roof windows offer the critical facility to install them low within the roof line. Three depth options are available to suit all coverings:

- Standard depth (denoted by the last letter 'V' e.g. EZV)
- Installation 3cm higher than standard depth (denoted by the last letter 'N')
- Installation 3cm lower than standard depth (denoted by the letter 'J')

For conservation roof windows 'J' flashings are most commonly used to provide the required low profile. Flashings available are as follows:

- EEJ/C - sheet metal roof coverings e.g. zinc, copper, stainless steel
- ELJ/C - natural and man-made slates, felts etc, up to 8mm thick
- EPJ/C - plain tiles (clay and concrete)
- ESJ/C - shingles e.g. cedar, asphalt etc.
- EZJ/C - profiled roof coverings up to 45mm in depth e.g. Double Roman

Bespoke requirements

These can include options ranging from an additional mullion bar to non-standard sizes and cladding shades. We even manufacture conservation style windows for use in L-shape profiles to take the glazing into the wall.



Conservation window with two mullion bars



ELJ, ELJ/C

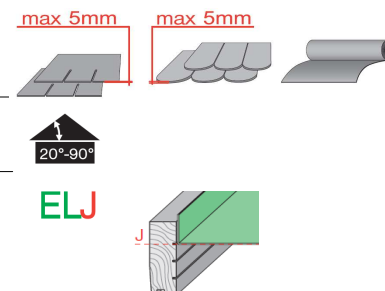
FLASHING

APPLICATION

Flashing for thin plain tile roof coverings (max. thickness: 10mm (2x5mm))

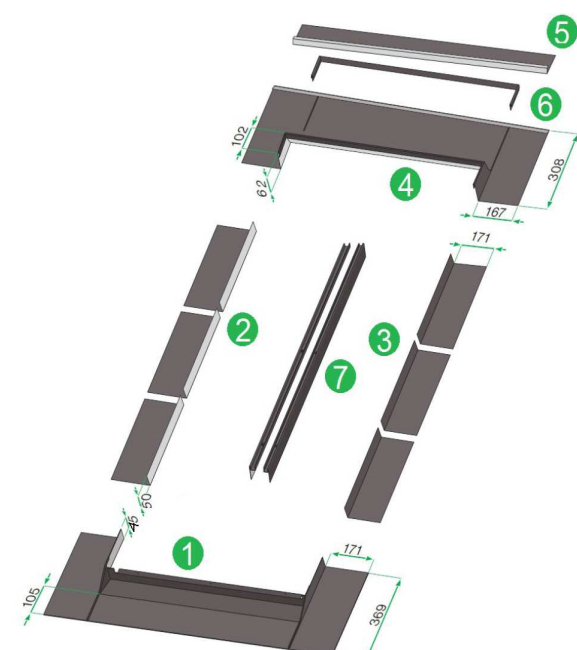
Installation in roof with pitches: 20-90°

Window installation depth: J (-3)



ELJ: standard flashing in RAL 7022
ELJ/C: conservation flashing in RAL 9005 (black)

ELEMENTS OF FLASHING STRUCTURE



- 1 – Lower flashing element
- 2 – Side elements
- 3 – Side elements
- 4 – Upper flashing element
- 5 – Water draining gutter
- 6 – Insulation strip for upper flashing Element
- 7 – Profile covering frame side

Window height	Number of side elements
../60	10
../78	10
../98	12
../118	16
../140	20
../160	22
../180	26
../186	26
../206	30
../235	34
../255	38

MATERIAL

Aluminium sheet metal: AW-1050A
Lacquer: modified polyester in RAL 7022
Sheet metal thickness: 0.6 mm

COMPATIBILITY WITH WINDOWS

Flashing type	Window type														Collector type	
	FT	FP	PT	PP	FD	FY	FE	FG	BD	BV	BX	FS	FW	SKW	SKC	
ELJ																
EL 1/C																

■ - flashings to special order

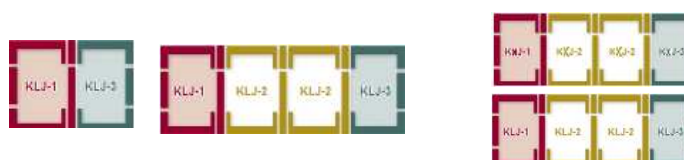
SIZE LIMITS

Window size		Window width [cm]							
Window height [cm]	60	46	48	55	66	78	94	114	134
	78	46	47	01	22	23	24	25	26
	98	48	49	02	03	05	15	20	12
	118			16	04	06	08	10	18
	140				14	07	09	11	17
	160					13	80	50	
	180					40	41		
	186					CA	DA		
	206					CB	DB		
	235					CC	DC		
	255					CD	DD		

xx - Available size (xx - marking of two last characters of the code)
- Not available in the offer due to the lack of the window in this size

COMBINATIONS

Horizontal and block combinations are realized through appropriate modules: KLJ (1,2,3) and KXJ (4,5,6)



Vertical combinations are realized through KDJ module

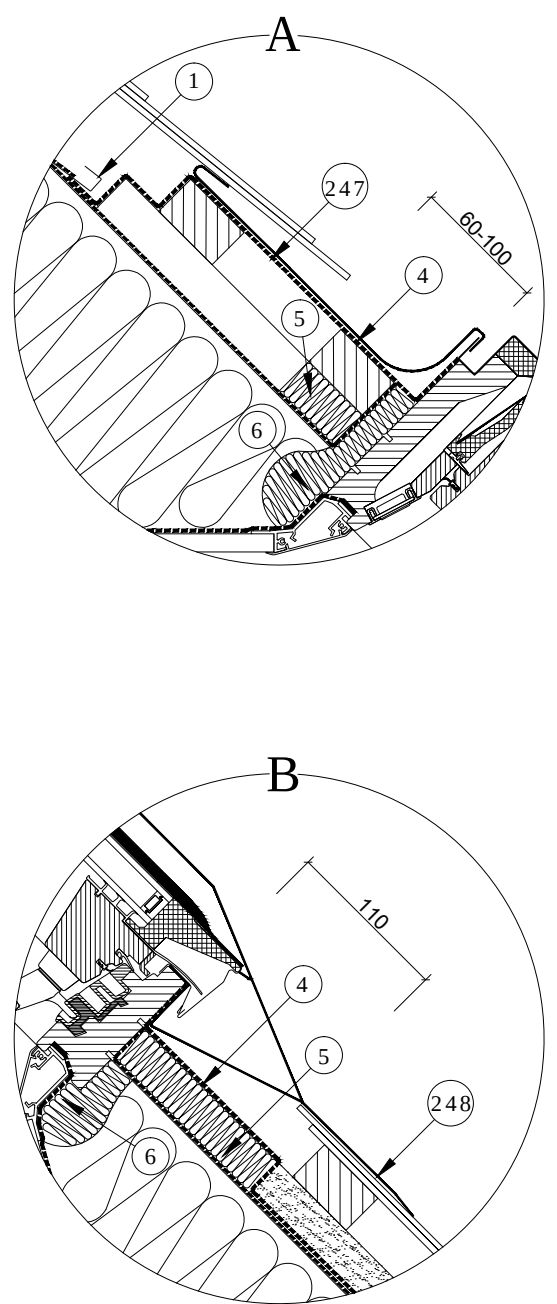
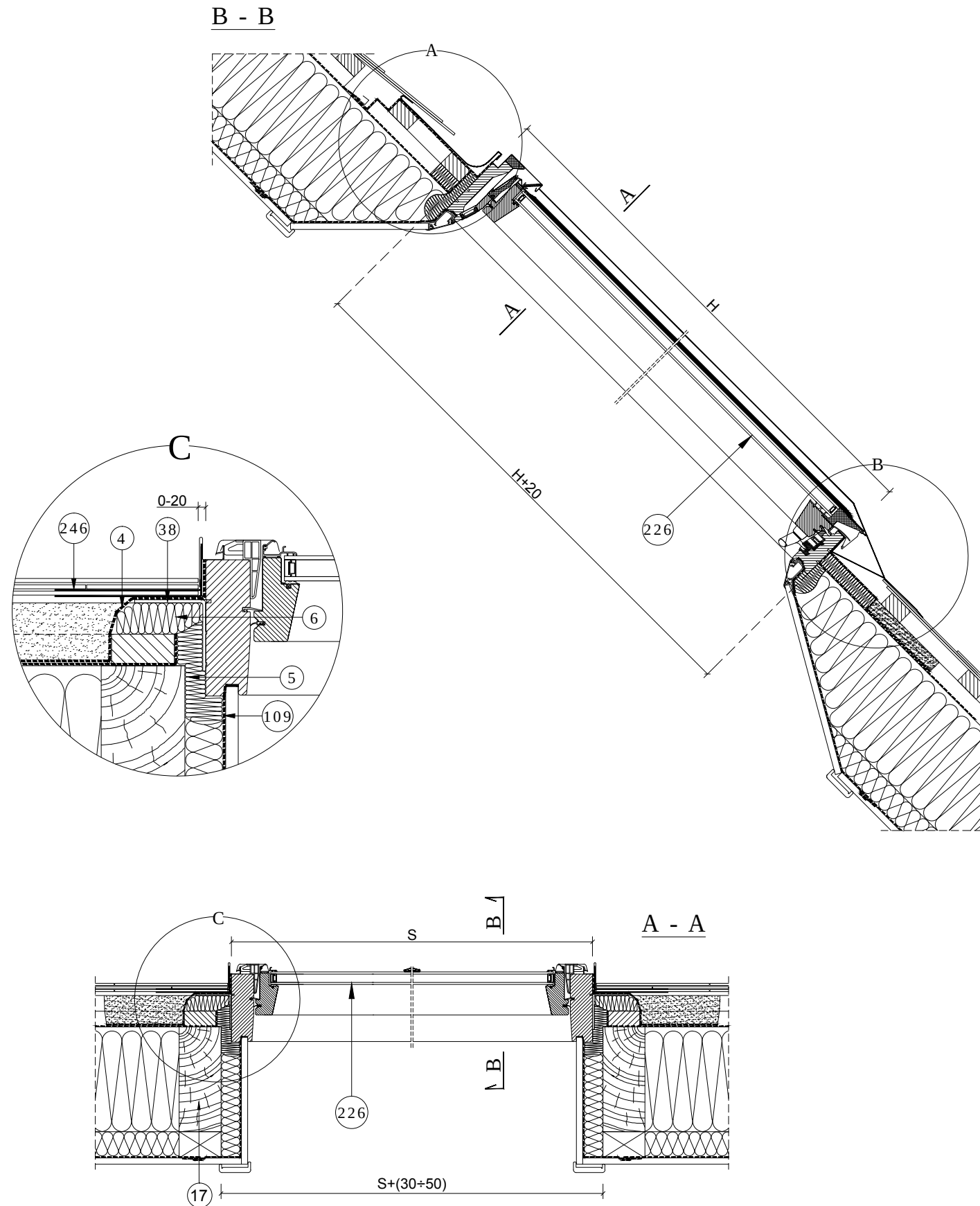


OPTIONS



Flashing sections in RAL colours
Copper sections flashing

Titanium-zinc flashing sections:
- Rhenizink sheet metal in version: "bright-rolled", "patina^{PRO} grey-blue" and "patina^{PRO} graphite"
- VMZINC sheet metal from Pigmento series (green, red, blue) and Anthra-Zinc and Quartz-Zinc



FTP-V/C U3, FTU-V/C U3		
Frame width S[mm]	Frame height H[mm]	Window symbol
457	601	
	781	46
	981	48
	1181	
	1401	
477	1601	
	601	
	781	47
	981	49
	1181	
547	1401	
	1601	
	601	
	781	01
	981	02
657	1181	16
	1401	
	1601	
	601	32
	781	22
777	981	03
	1181	04
	1401	14
	1601	
	601	33
937	781	23
	981	05
	1181	06
	1401	07
	1601	13
1137	601	34
	781	24
	981	15
	1181	08
	1401	09
1337	1601	80
	601	35
	781	25
	981	20
	1181	10
	1401	11
	1601	50
	601	36
	781	26
	981	12
	1181	18
	1401	17

- 1-Water draining gutter FAKRO
- 4-XDP FAKRO vapour permeable collar
- 5-Tress made of sheep wool FAKRO (XDP)
- 6-Blocks made of sheep wool FAKRO (XDP)
- 8-XLW internal lining element FAKRO
- 17-Rafter
- 38-Installation bracket
- 109-XDS air-tight flashing FAKRO
- 226-FTP-V/C U3, FTU-V/C U3 pivot window FAKRO
- 246-ELJ/C flashing side element FAKRO
- 247-ELJ/C flashing upper element FAKRO
- 248-ELJ/C flashing lower element FAKRO

Vertical and horizontal cross-section:
FTP-V/C U3, FTU-V/C U3 roof windows with
ELJ/C flashing for flat tiled roofs

FORMAT:
A3

SCALE:
1:10/1:5

DATE:
05.2015

Warning! The present drawing is for informational-demonstrative purposes only and as such cannot constitute a basis for performance. All dimensions presented in this drawing should be verified on site. Because of the fact that the drawing is a schematic one, FAKRO shall not assume any responsibility for the actual installation quality on the roof. This drawing is FAKRO's property and cannot be published or used publicly without our written consent.



PTP-V, PTP-V/PI, PTP-V/GO,

ALUMINIUM-CLAD PLASTIC ROOF WINDOW – PIVOT

I. APPLICATION

	Pivot window
	Installed in roofs with pitches 15-90°

II. FEATURES

	Multi-chamber in white colour (RAL 9010)
	TopSafe system
	V35 air inlet
	Quadruple sealing system
	Installation at two depths: N,V
	Warm TGI spacer
	White Handle Elegant

III. ADDITIONAL PRODUCTS USED WITH WINDOWS

Flashings	
	standard
	special
	combination
Control	
	manual
	electric
Mounting accessories	
	insulation sets
	linings
	auxiliary rafters
	bands
	frame extensions
External accessories	
	awning blinds
	roller shutters
Internal accessories	
	blackout blinds
	roller blinds
	standard roller shutters
	awning blinds
	pleated blinds
Other accessories	
	insect screen

IV. OPTIONS

	External cladding elements painted in any RAL colour or manufactured to match event the most unusual roofing colours (CU, TC)
	Window with a mullion bar
	Non-standard glazing unit
	Available in veneer: golden oak and pine

V. DECLARATION OF PERFORMANCE

Harmonized standard	EN 14351-1:2006+A1:2010
Number of Declaration of Performance	XXX/CPR/14351/xx Individual numbers of Declaration of Performance are to be found in the table with technical parameters

VI. TECHNICAL PARAMETERS

Technical parameters	Glazing unit type								standards
	U3	P2	U5	U5 + EHV AT Thermo	P5	R1	G2	G61	
- Window heat transmittance coefficient Uw [W/m²K]	1,3	1,3	***0,95/1,1	***0,88	1,1	1,3	1,3	1,3	EN 12567-2, EN 10077
- Glazing heat transmittance coefficient Ug [W/m²K]	1,0	1,0	0,5	0,5	0,5	1,0	1,0	1,0	EN 673
- Acoustic performance Rw [dB]	32 (-1;-4)	33 (-1;-4)	34 (-2;-6)	34 (-2;-6)	36 (-1;-3)	39 (-2;-5)**	33 (-1;-4)	39 (-2;-5)**	EN ISO 717-1
- max. capacity of air inlet [m³/h] - 10Pa	up to 41								EN 13141
- air permeability class	3								EN 1026, EN 12207
- light permeability τv	0,76	0,75	0,73	0,73	0,63	0,75	0,40	0,40	EN 410
- solar factor g	0,53	0,52	0,53	0,53	0,48	0,51	0,23	0,23	EN 410
- permeability UV	0,26	0,01	0,01	0,01	0,01	0,02	0,01	0,01	EN 410
- frame thermal insulation Uf [W/m²K]	1,560*	npd	1,80	1,4	npd	npd	npd	npd	EN ISO 10077-1 EN ISO 10077-2
- thermal insulation of window frame connection with glazing ψ (psi) [W/mK]	0,053*	npd	0,047	0,046	npd	npd	npd	npd	EN ISO 10077-1 EN ISO 10077-2
Number of Declaration of Performance	P01/CPR/14351/xx	P70/CPR/14351/xx	P40/CPR/14351/xx	P42/CPR/14351/xx	P41/CPR/14351/xx	P60/CPR/14351/xx	P12/CPR/14351/xx	P16/CPR/14351/xx	EN 14351-1:2006+A1:20

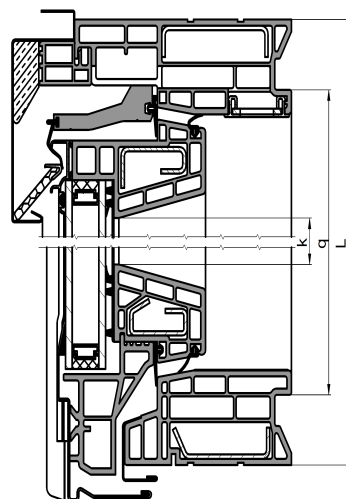
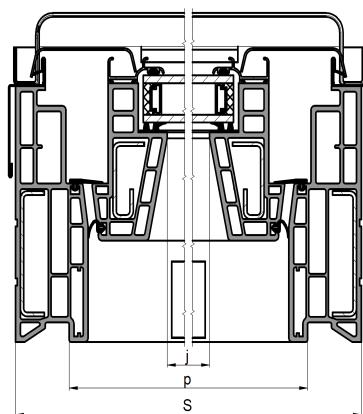
* Result of FAKRO internal tests

** Parameter for the window without air inlet PTP R1, G61 (For the window PTP-V R1, G61 Rw= 37(-1;-4)

*** Parameter for the window PTP-V U5 (For the window without air inlet PTP U5, Uw=1,1 [W/m²K])

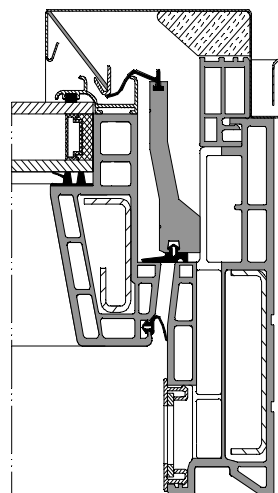
VII. DETAILED DIMENSIONS OF PTP, PTP-V WINDOWS

Window size	Size symbol	Frame external size			Distance between lining grooves		Glazing area		Glazing visible area
		S	x	L	p	q	j	k	
[cm]					[mm]				[m ²]
55 x 78	01	547	x	770	484	707	369	591	0.22
55 x 98	02	547	x	970	484	907	369	791	0.29
66 x 98	03	657	x	970	594	907	479	791	0.38
66 x 118	04	657	x	1170	594	1107	479	991	0.47
78 x 98	05	777	x	970	714	907	599	791	0.47
78 x 118	06	777	x	1170	714	1107	599	991	0.59
78 x 140	07	777	x	1390	714	1327	599	1211	0.73
94 x 118	08	937	x	1170	874	1107	759	991	0.75
94 x 140	09	937	x	1390	874	1327	759	1211	0.92
114 x 118	10	1137	x	1170	1074	1107	959	991	0.95
114 x 140	11	1137	x	1390	1074	1327	959	1211	1.16
134 x 98	12	1337	x	970	1274	907	1159	791	0.92
78 x 160	13	777	x	1590	714	1527	599	1411	0.85
66 x 140	14	657	x	1390	594	1327	479	1211	0.58
94 x 98	15	937	x	970	874	907	759	791	0.60
55 x 118	16	547	x	1170	484	1107	369	991	0.37
134 x 118	18	1337	x	1170	1274	1107	1159	991	1.15
114 x 98	20	1137	x	970	1074	907	959	791	0.76
66 x 78	22	657	x	770	594	707	479	591	0.28
78 x 78	23	777	x	770	714	707	599	591	0.35
94 x 78	24	937	x	770	874	707	759	591	0.45
114 x 78	25	1137	x	770	1074	707	959	591	0.57
134 x 78	26	1337	x	770	1274	707	1159	591	0.68



VIII. CAPACITY OF V35 AIR INLET

		Window width [cm]					
		55/..	66/..	78/..	94/..	114/..	134/..
Pressure difference [Pa]							
1	[m ³ /h]	4,16	6,08	7,58	8,04	12,12	12,12
	[l/s]	1,16	1,69	2,11	2,23	3,37	3,37
2	[m ³ /h]	6,19	8,77	11,16	11,96	17,7	17,7
	[l/s]	1,72	2,44	3,1	3,32	4,92	4,92
10	[m ³ /h]	15,05	20,59	25,32	27,55	40,97	40,97
	[l/s]	4,18	5,72	7,03	7,65	11,38	11,38
20	[m ³ /h]	21,16	29,24	36,71	39,33	59,59	59,59
	[l/s]	5,88	8,12	10,2	10,92	16,55	16,55



SPECIFICATION

REF
2 NO. AS DRAWN - WP.10.01 & WP.10.02
NON-FIRE RATED

SYSTEM
ALUPROF MB-SR50N STANDARD (WALL) BASIC FMG 2.1 STANDARD GT
THERMALLY BROKEN ALUMINIUM CURTAIN WALL AND WINDOW SYSTEMS
BTM HUNG OUTWARD OPENING AOV

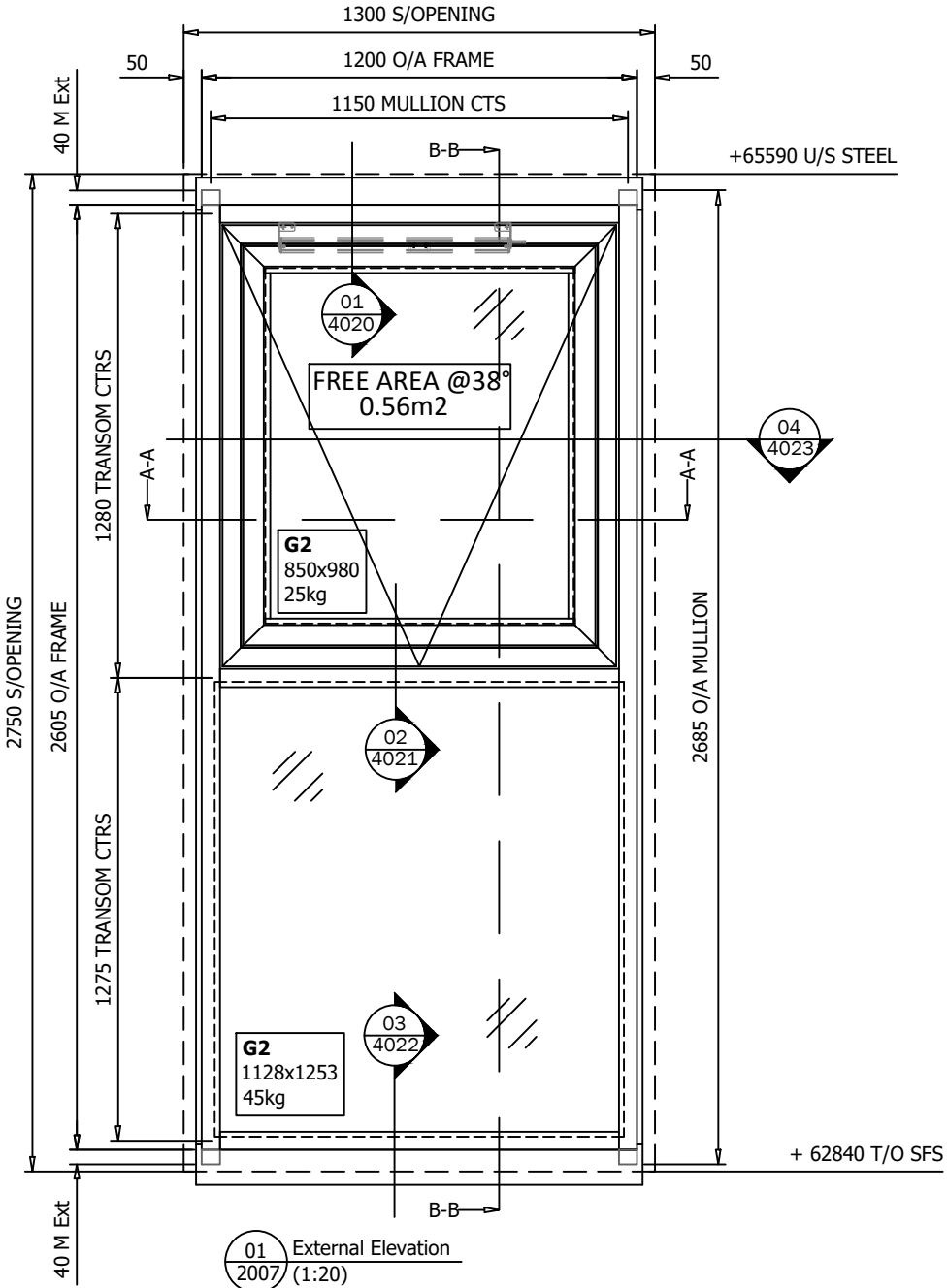
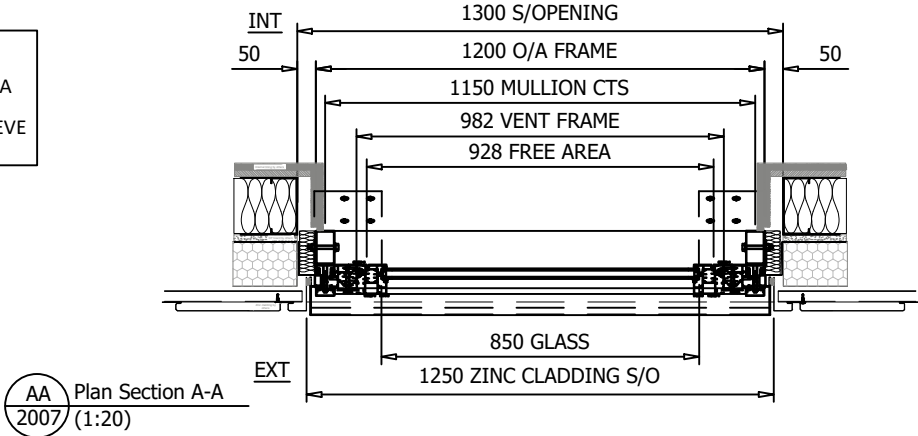
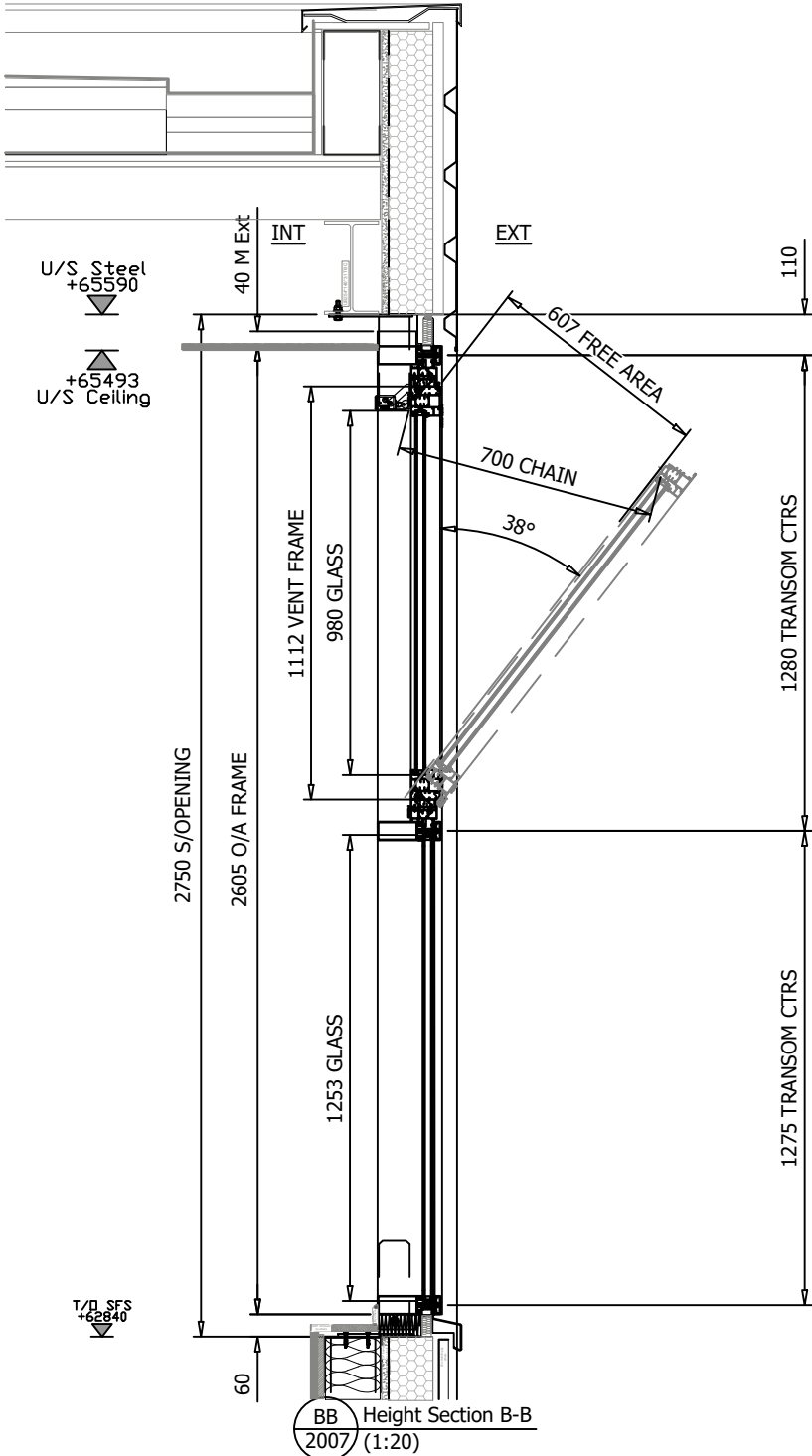
GLASS
GLASS TYPE G2 (CLEAR)
28MM GLASS COMPRISING OF:
OUTER - 6MM TOUGHENED
CAVITY - 16MM ARGON FILLED BLACK SPACER
INNER - 6MM TOUGHENED LOW E

FINISH
PPC RAL 7037 DUSTY GREY
GLOSS LEVEL 30% (MATT FINISH)

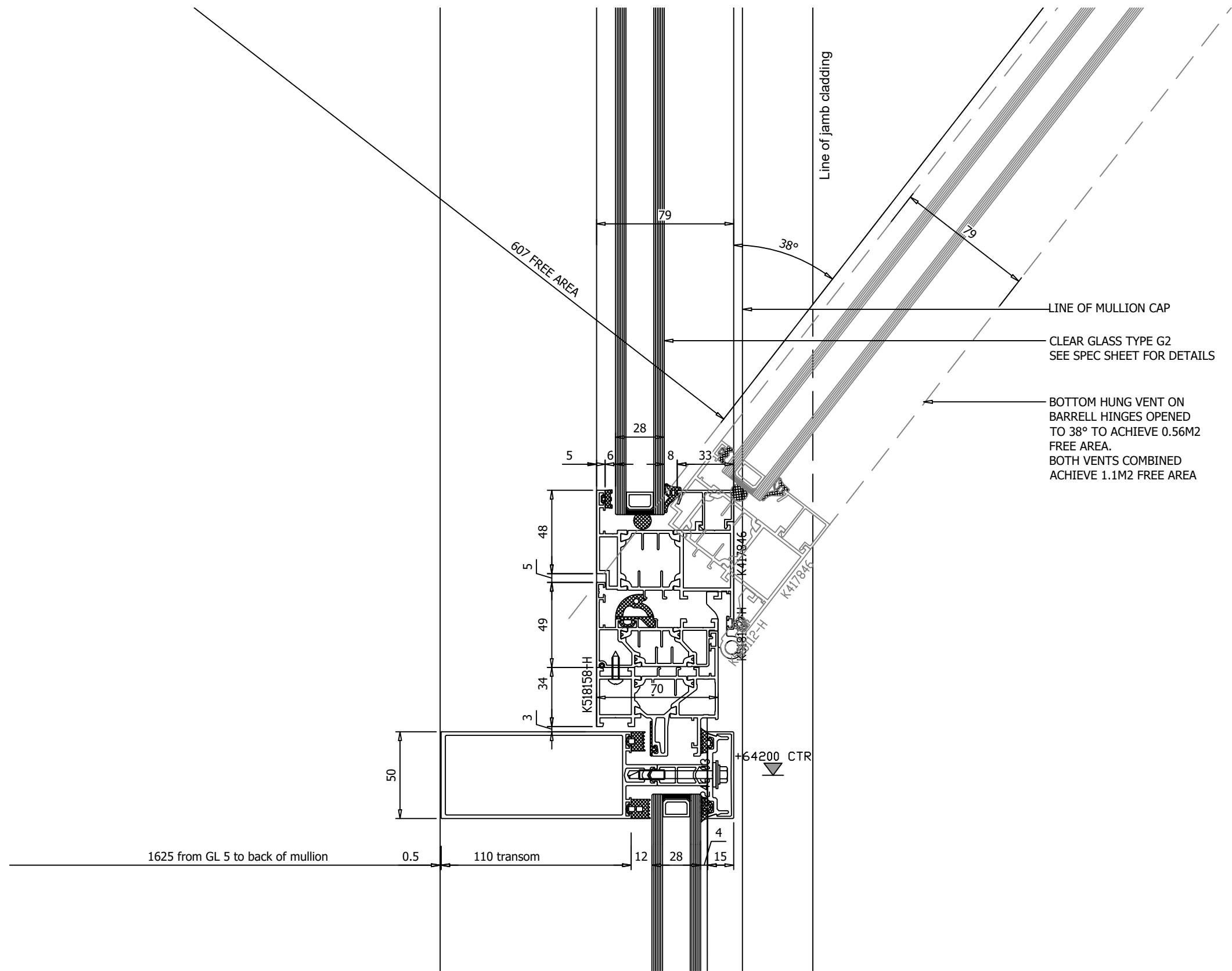
SILICONE
LIGHT GREY EXTERNAL SINGLE PART LOW-MOD
MASTIC WITH BACKING ROD

IRONMONGERY / OPERATION
ACTUATOR / AOV BY OTHERS
VENT TO BE OPERATED BY 700MM CHAIN TO ACHIEVE TARGET FREE AREA
WHEN COMBINED ACROSS BOTH VENTS
INSTALLATION, WIRING AND COMMISSIONING BY OTHERS

700MM CHAIN ACTUATOR TO VENT.
PROGRAMMED TO OPEN 700MM.
EACH VENT ACHIEVES THE FREE AREA
OF 0.56M2.
BOTH VENTS COMBINED WILL ACHIEVE
A FREE AREA OF 1.1M2



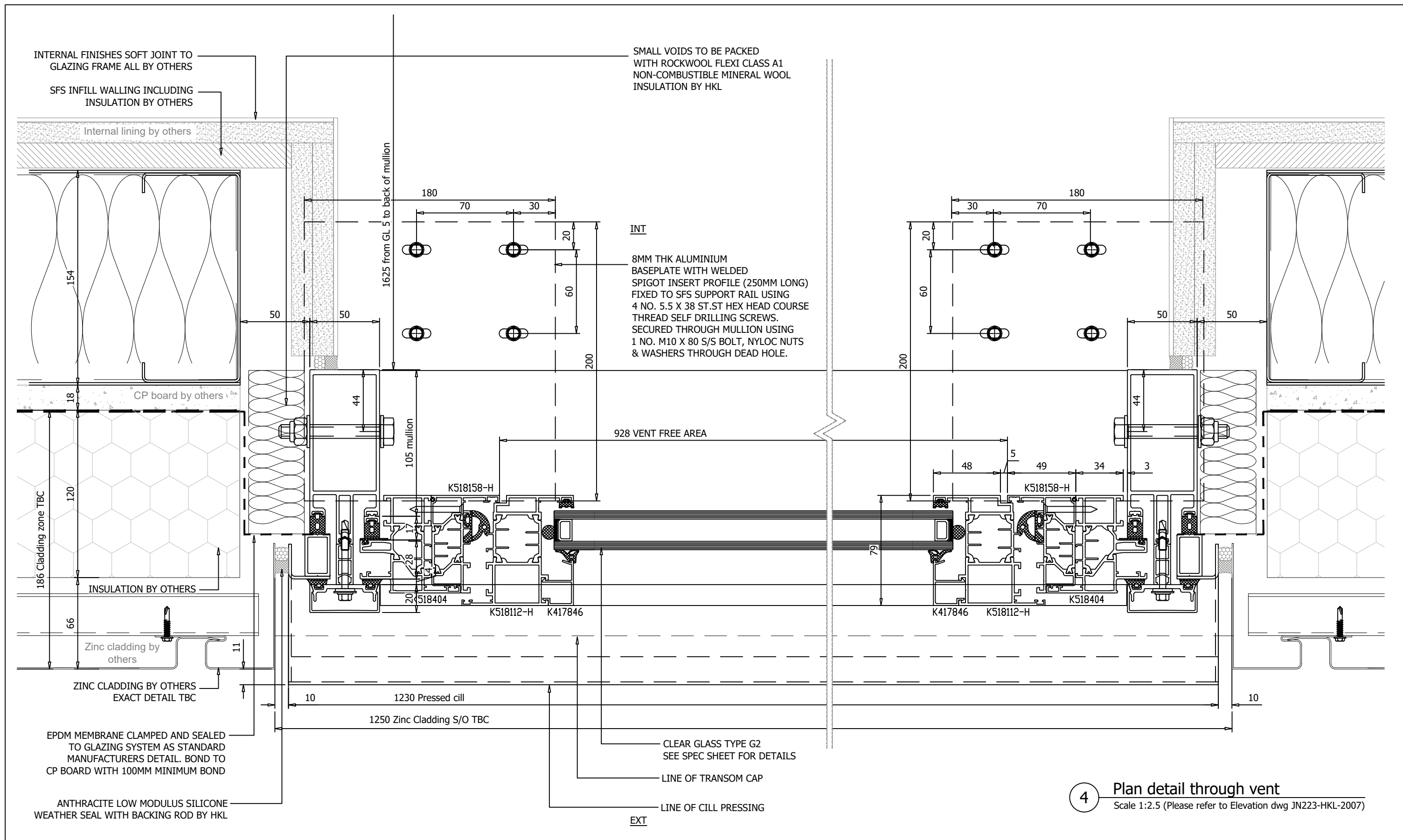
REVISIONS					NOTES	Client:	Cubic Works	Drawn:	JP		H-K-L Specialists Ltd	
03	30.05.23	JP	AS BUILT			Project:	Princess Street, Manchester	Date:	20/09/22		Common Road, Huthwaite, Notts, NG17 2JT tel: 01623 550357 hello@hklspecialists.co.uk	
CHKD				DRAWING ISSUED FOR : AS BUILT	Site:	Manchester	Design Check:	JP	CAD Ref:	HKL/JN223/PSM/MASTERFILE	THIS DRAWING REMAINS THE PROPERTY OF J.P SPECIALIST GLAZING DESIGN LIMITED AND MAY NOT BE COPIED, REPRODUCED OR IT'S CONTENTS DIVULGED WITHOUT PRIOR WRITTEN CONSENT FROM HKL SPECIALISTS LIMITED.	
02	16.01.23	JP	REVISED TO COMMENTS / CONSTRUCTION ISSUE		Title:	Window Ref WP.10.01 & WP.10.02	Scales:	1:20 @ A3				
CHKD					Elevation & Sections	Project/Drawing No.:	JN223-HKL-2007	Revision:	03			
01	04.10.22	MZ	ISSUED FOR APPROVAL									
CHKD												
00	22.09.22	JP	ISSUED FOR APPROVAL									
CHKD												



2 Intermediate transom detail
Scale 1:2.5 (Please refer to Elevation dwg JN223-HKL-2007)

REVISIONS				 NOTES	Client: Cubic Works	Drawn: MZ	 H-K-L Specialists Ltd Common Road, Huthwaite, Notts, NG17 2JT tel: 01623 550357 hello@hklspecialists.co.uk	
				DRAWING ISSUED FOR : AS BUILT	Project: Princess Street, Manchester	Date: 29/09/22	CAD Ref: HKL/JN223/PSM/MASTERFILE	
CHKD					Site: Manchester	Design Check: JP		
02	31.05.23	JP	AS BUILT		Title: Window Ref WP.10.01 & WP.10.02 INTERMEDIATE TRANSOM VENT DETAIL		Scales: 1:2.5 @ A3	
CHKD								
01	16.01.23	JP	CONSTRUCTION ISSUE					
CHKD						Project/Drawing No.: JN223-HKL-4021		Revision: 02
00	04.10.22	MZ	ISSUED FOR APPROVAL					
CHKD								

THIS DRAWING REMAINS THE
PROPERTY OF J.P. SPECIALIST GLAZING
DESIGN LIMITED AND MAY NOT BE
COPIED, REPRODUCED OR ITS
CONTENTS DIVULGED WITHOUT
PRIOR WRITTEN CONSENT FROM HKL
SPECIALISTS LIMITED.



4 Plan detail through vent
Scale 1:2.5 (Please refer to Elevation dwg JN223-HKL-2007)

REVISIONS				 NOTES DRAWING ISSUED FOR : AS BUILT	Client: Cubic Works		Drawn: MZ	 H-K-L Specialists Ltd Common Road, Huthwaite, Notts, NG17 2JT tel: 01623 550357 hello@hklspecialists.co.uk
					Project: Princess Street, Manchester		Date: 29/09/22	
CHKD					Site: Manchester		Design Check: JP	CAD Ref: HKL/JN223/PSM/MASTERFILE
02	31.05.23	JP	AS BUILT		Title: Window Ref WP.10.01 & WP.10.02 JAMB VENT DETAIL			
CHKD								
01	16.01.23	JP	CONSTRUCTION ISSUE		Scales: 1:2.5 @ A3			
CHKD					Project/Drawing No.: JN223-HKL-4023		Revision: 02	THIS DRAWING REMAINS THE PROPERTY OF J.P SPECIALIST GLAZING DESIGN LIMITED AND MAY NOT BE COPIED, REPRODUCED OR IT'S CONTENTS DIVULGED WITHOUT PRIOR WRITTEN CONSENT FROM HKL SPECIALISTS LIMITED.
00	04.10.22	MZ	ISSUED FOR APPROVAL					
CHKD								

SPECIFICATION

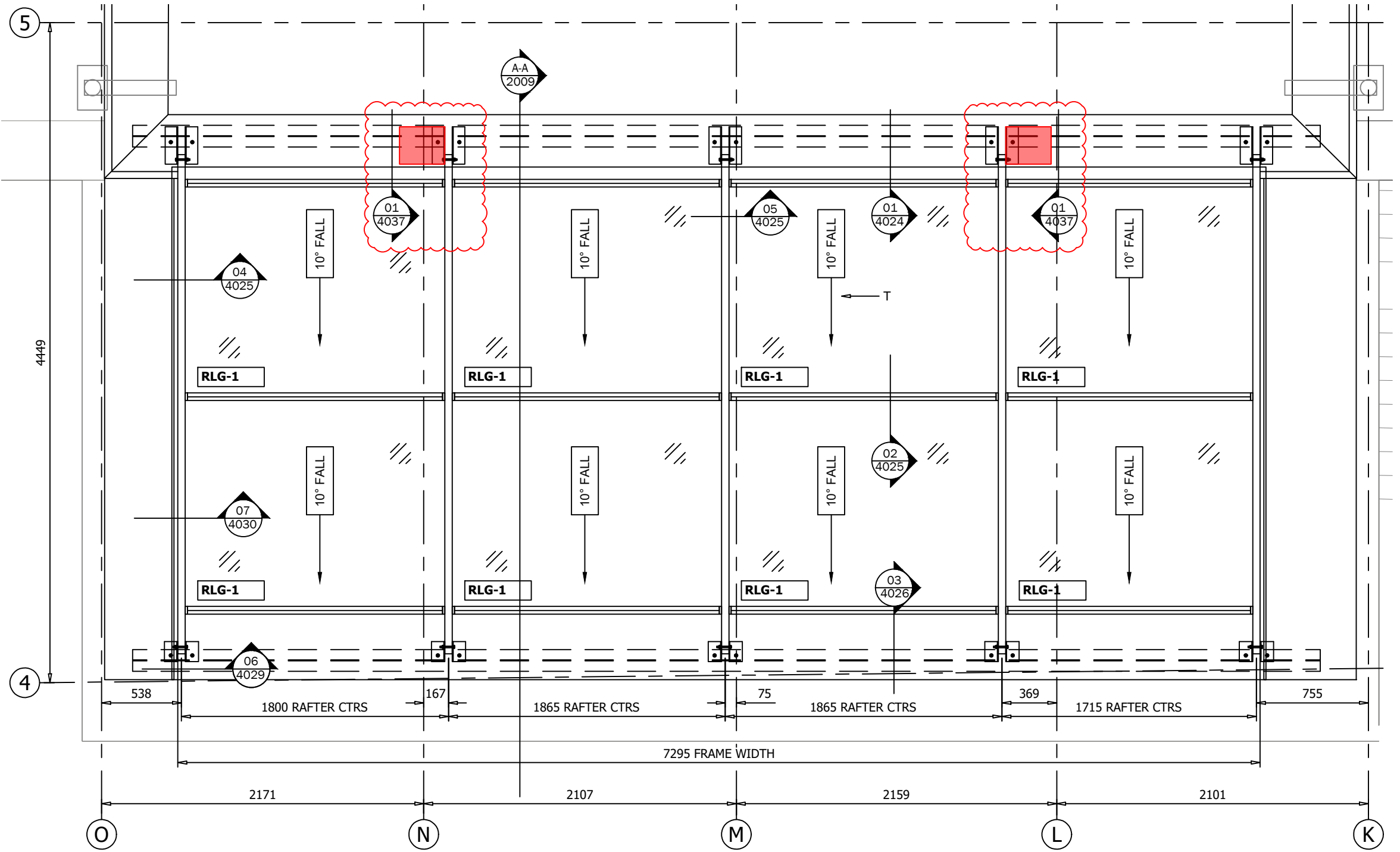
REF
1 NO. AS DRAWN - WP.10.01 & WP.10.02
NON-FIRE RATED

SYSTEM
ALUPROF MB-SR50N HI (WALL) BASIC FMG 2.1 STANDARD GT
THERMALLY BROKEN ALUMINIUM CURTAIN WALL

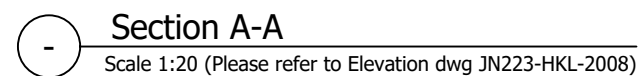
GLASS
GLASS TYPE RLG 1 (CLEAR)
32MM GLASS COMPRISING OF:
OUTER - 8.8MM LAMINATED
CAVITY - 14MM ARGON FILLED BLACK SPACER
INNER - 8.8MM LAMINATED LOW E

FINISH
ALL BAR WORK AND VISIBLE PRESSINGS TO BE
PPC RAL 7037 DUSTY GREY
GLOSS LEVEL 30% (MATT FINISH)

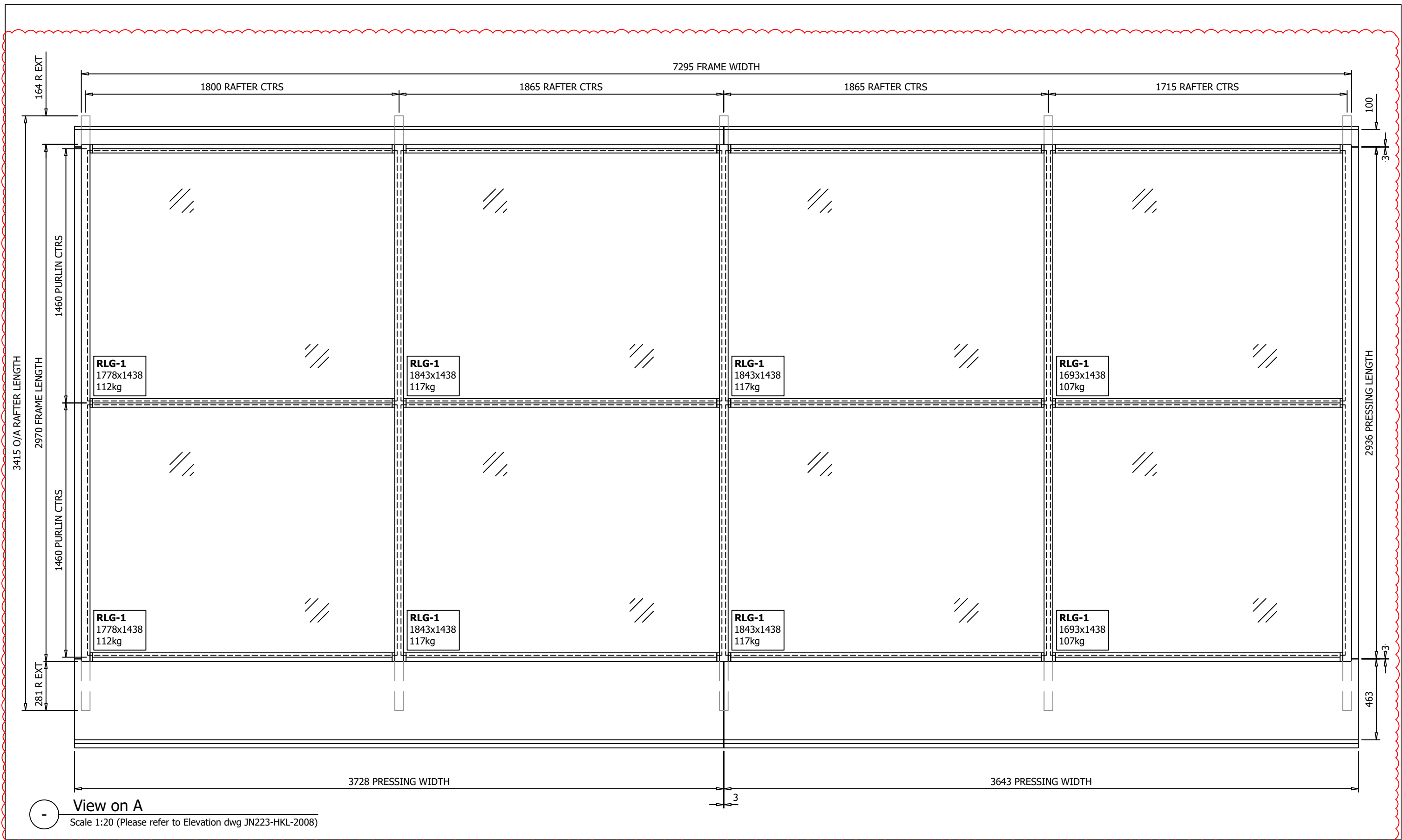
SILICONE
LIGHT GREY EXTERNAL SINGLE PART LOW-MOD
MASTIC WITH BACKING ROD



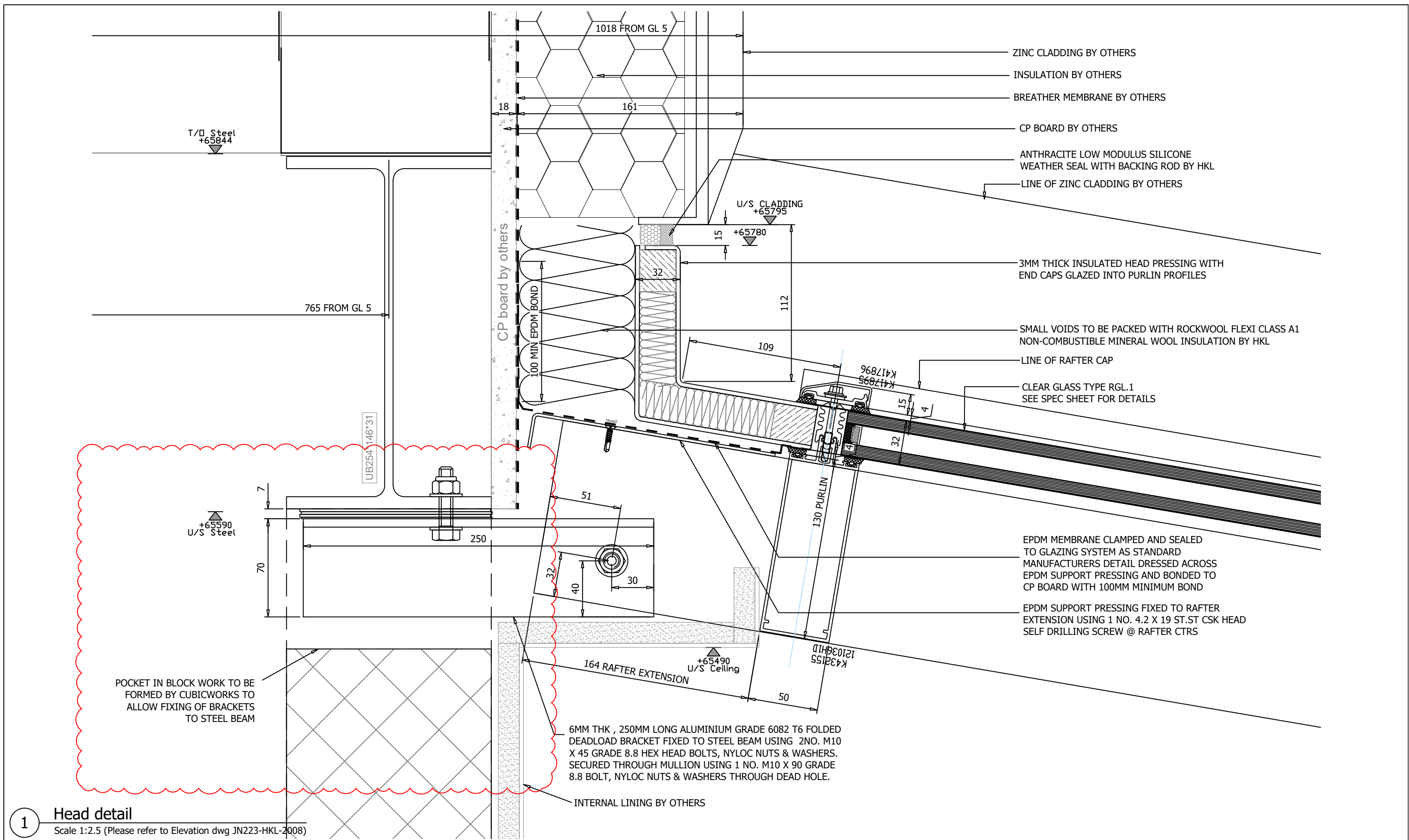
REVISIONS				 NOTES	Client: Cubic Works		Drawn: MZ	 H-K-L Specialists Ltd		
				DRAWING ISSUED FOR : CONSTRUCTION	Project: Princess Street, Manchester		Date: 01/09/22		Common Road, Huthwaite, Notts, NG17 2JT tel: 01623 550357 hello@hklspecialists.co.uk	
CHKD					Site: Manchester		Design Check: JP		CAD Ref: HKL/JN223/PSM/MASTERFILE	
02	24.02.23	JP	DETAIL REFS AT PADSTONES ADDED		Title: Window Ref Rooflight Elevation		Scales: 1:30 @ A3		THIS DRAWING REMAINS THE PROPERTY OF J.P SPECIALIST GLAZING DESIGN LIMITED AND MAY NOT BE COPIED, REPRODUCED OR ITS CONTENTS DIVULGED WITHOUT PRIOR WRITTEN CONSENT FROM HKL SPECIALISTS LIMITED.	
CHKD										
01	09.12.22	JP	REVISED TO COMMENTS / ISSUED FOR CONSTRUCTION							
CHKD										
00	04.10.22	MZ	ISSUED FOR APPROVAL							
CHKD										

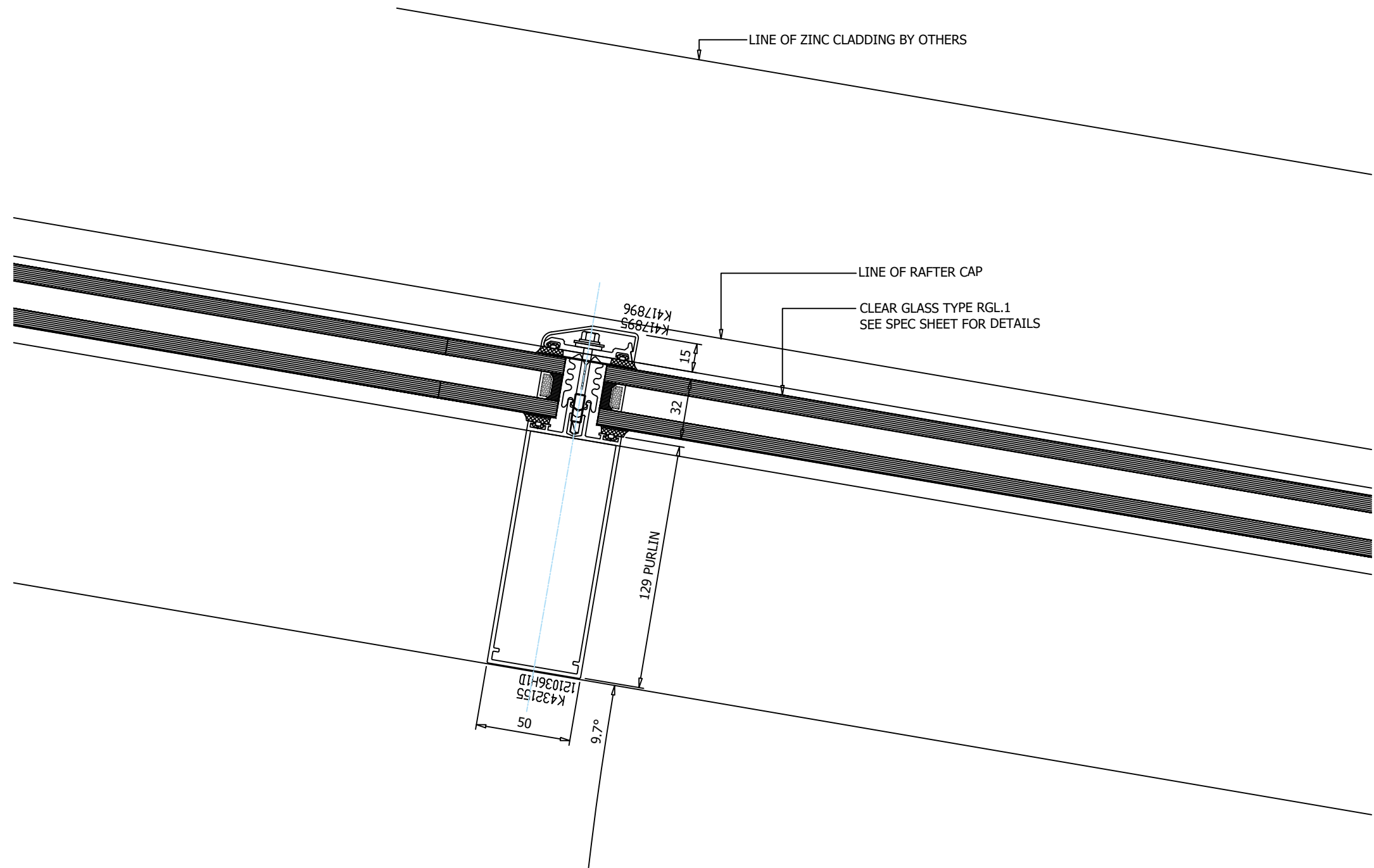


REVISIONS					NOTES	Client: Cubic Works		Drawn: MZ		 H-K-L Specialists Ltd Common Road, Huthwaite, Notts, NG17 2JT tel: 01623 550357 hello@hklspecialists.co.uk	
						Project: Princess Street, Manchester		Date: 01/09/22			
CHKD				DRAWING ISSUED FOR : CONSTRUCTION		Site: Manchester		Design Check: JP		CAD Ref: HKL/JN223/PSM/MASTERFILE	
CHKD						Title: Window Ref Rooflight Section		Scales: 1:20 @ A3		THIS DRAWING REMAINS THE PROPERTY OF J.P SPECIALIST GLAZING DESIGN LIMITED AND MAY NOT BE COPIED, REPRODUCED OR IT'S CONTENTS DIVULGED WITHOUT PRIOR WRITTEN CONSENT FROM HKL SPECIALISTS LIMITED.	
01	09.12.22	JP	REVISED TO COMMENTS / ISSUED FOR CONSTRUCTION								
CHKD											
00	04.10.22	MZ	ISSUED FOR APPROVAL								
CHKD											



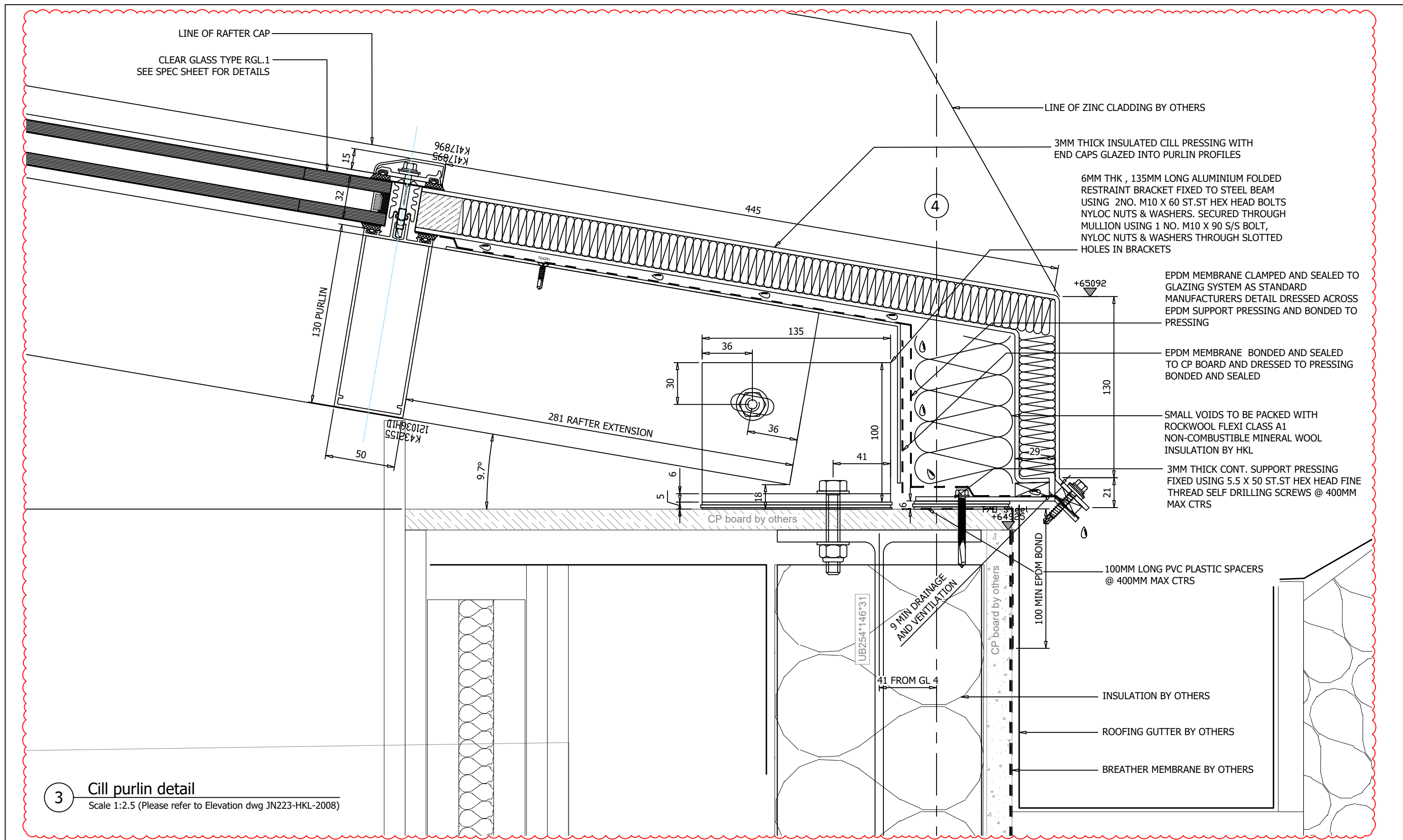
REVISIONS				NOTES		Client:	Drawn:	 H-K-L Specialists Ltd Common Road, Huthwaite, Notts, NG17 2JT tel: 01623 550357 hello@hklspecialists.co.uk	
CHKD						Project:	Date:		
CHKD						Site:	Design Check:	CAD Ref:	THIS DRAWING REMAINS THE PROPERTY OF J.P SPECIALIST GLAZING DESIGN LIMITED AND MAY NOT BE COPIED, REPRODUCED OR ITS CONTENTS DIVULGED WITHOUT PRIOR WRITTEN CONSENT FROM HKL SPECIALISTS LIMITED.
01	09.12.22	JP	REVISED TO COMMENTS / ISSUED FOR CONSTRUCTION			Manchester	JP	HKL/JN223/PSM/MASTERFILE	
CHKD						Title:	Scales:	Project/Drawing No.:	
00	04.10.22	MZ	ISSUED FOR APPROVAL			Window Ref Rooflight	1:20 @ A3	JN223-HKL-2010	Revision: 01
CHKD						Rooflight in orthographic view			





2 Intermediate purlin detail
Scale 1:2.5 (Please refer to Elevation dwg JN223-HKL-2008)

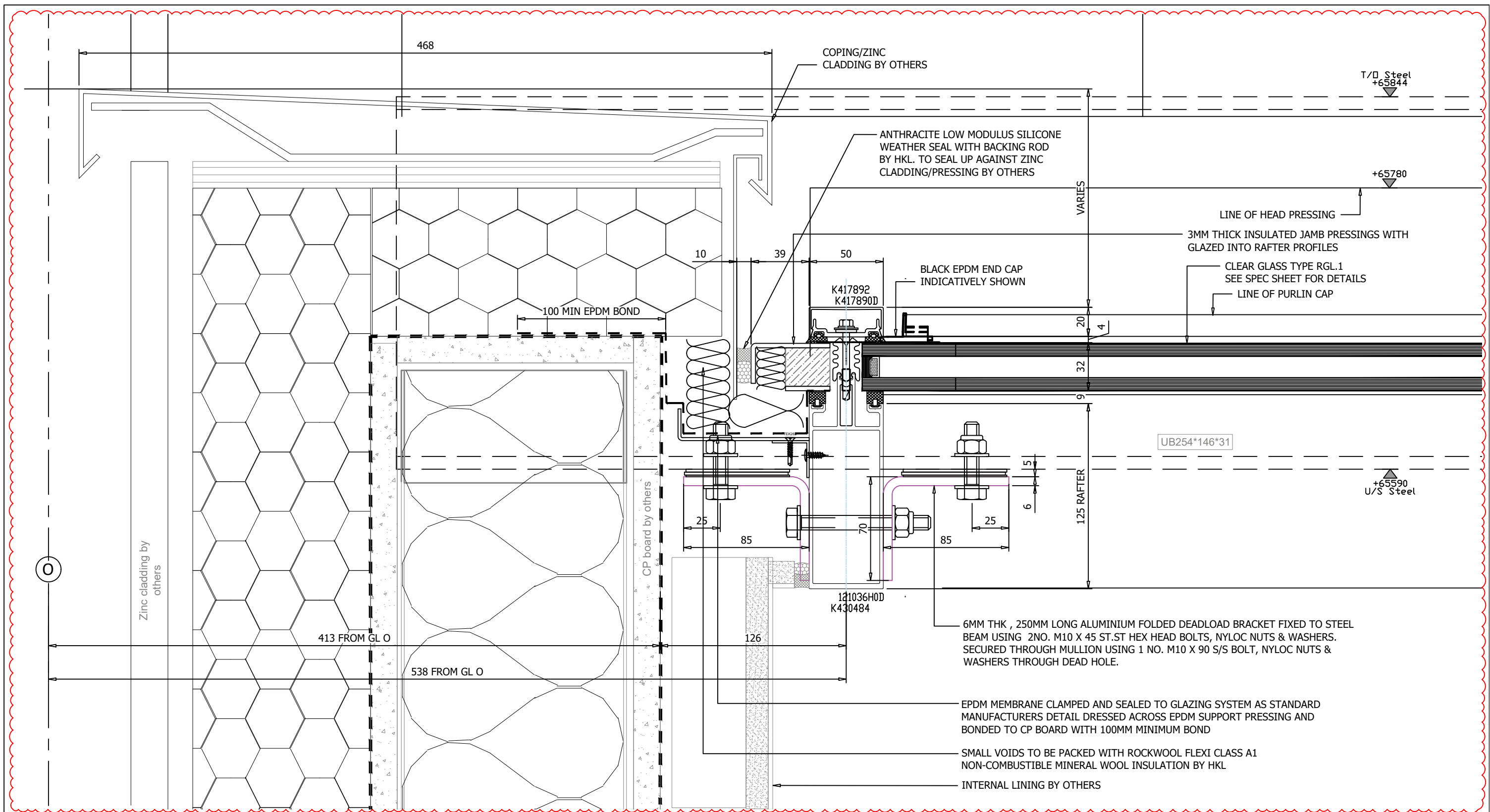
REVISIONS					NOTES	Client: Cubic Works		Drawn: MZ		H-K-L Specialists Ltd	
						Project: Princess Street, Manchester	Date: 01/10/22	Common Road, Huthwaite, Notts, NG17 2JT tel: 01623 550357 hello@hklspecialists.co.uk			
CHKD				DRAWING ISSUED FOR : CONSTRUCTION		Site: Manchester	Design Check: JP	CAD Ref: HKL/JN223/PSM/MASTERFILE	THIS DRAWING REMAINS THE PROPERTY OF J.P SPECIALIST GLAZING DESIGN LIMITED AND MAY NOT BE COPIED, REPRODUCED OR IT'S CONTENTS DIVULGED WITHOUT PRIOR WRITTEN CONSENT FROM HKL SPECIALISTS LIMITED.		
CHKD						Title: Window Ref Rooflight	Scales: 1:2.5 @ A3				
01	09.12.22	JP	REVISED TO COMMENTS / ISSUED FOR CONSTRUCTION			Project/Drawing No.: JN223-HKL-4025		Revision: 01			
CHKD						INTERMEDIATE PURLIN DETAIL					
00	04.10.22	MZ	ISSUED FOR APPROVAL								
CHKD											



3 Cill purlin detail
Scale 1:2.5 (Please refer to Elevation dwg JN223-HKL-2008)

REVISIONS				NOTES		Client: Cubic Works	Drawn: MZ	 H-K-L Specialists Ltd Common Road, Huthwaite, Notts, NG17 2JT tel: 01623 550357 hello@hklspecialists.co.uk	
CHKD						Project: Princess Street, Manchester	Date: 01/10/22		
CHKD						Site: Manchester	Design Check: JP	CAD Ref: HKL/JN223/PSM/MASTERFILE	THIS DRAWING REMAINS THE PROPERTY OF J.P SPECIALIST GLAZING DESIGN LIMITED AND MAY NOT BE COPIED, REPRODUCED OR ITS CONTENTS DIVULGED WITHOUT PRIOR WRITTEN CONSENT FROM HKL SPECIALISTS LIMITED.
01	09.12.22	JP	REVISED TO COMMENTS / ISSUED FOR CONSTRUCTION			Title: Window Ref Rooflight CILL PURLIN DETAIL	Scales: 1:2.5 @ A3	Project/Drawing No.: JN223-HKL-4026	
CHKD								Revision: 01	
00	04.10.22	MZ	ISSUED FOR APPROVAL						
CHKD									

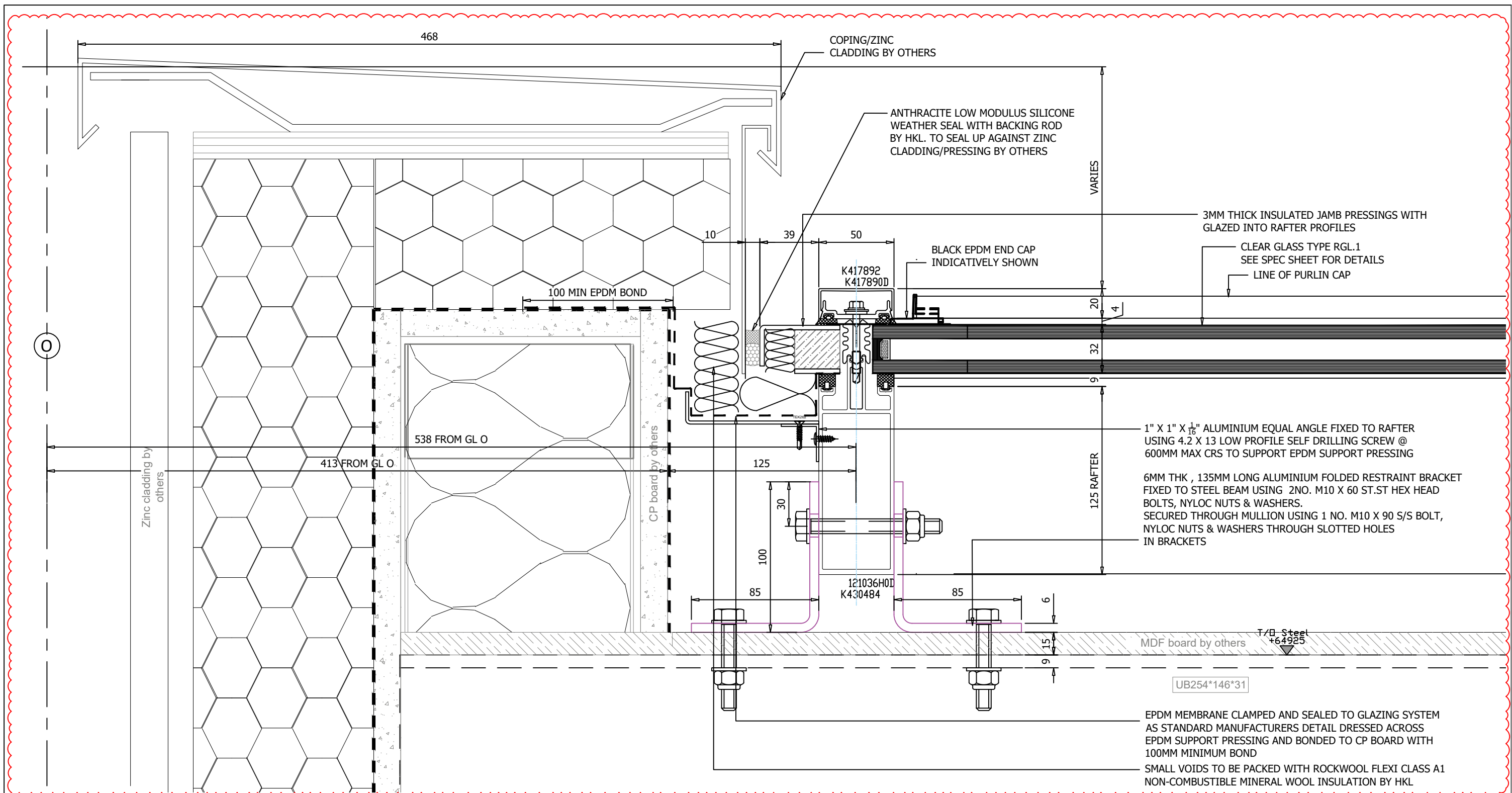
DRAWING ISSUED FOR :
CONSTRUCTION



4 Jamb rafter head detail

Scale 1:2.5 (Please refer to Elevation dwg JN223-HKL-2008)

REVISIONS					NOTES	DRAWING ISSUED FOR : CONSTRUCTION	Client: Cubic Works		Drawn: MZ			H-K-L Specialists Ltd Common Road, Huthwaite, Notts, NG17 2JT tel: 01623 550357 hello@hklspecialists.co.uk	
							Project: Princess Street, Manchester		Date: 01/10/22				
CHKD							Site: Manchester		Design Check: JP		CAD Ref: HKL/JN223/PSM/MASTERFILE		
							Title: Window Ref Rooflight JAMB RAFTER HEAD DETAIL		Scales: 1:2.5 @ A3		THIS DRAWING REMAINS THE PROPERTY OF J.P SPECIALIST GLAZING DESIGN LIMITED AND MAY NOT BE COPIED, REPRODUCED OR ITS CONTENTS DIVULGED WITHOUT PRIOR WRITTEN CONSENT FROM HKL SPECIALISTS LIMITED.		
CHKD									Project/Drawing No.: JN223-HKL-4027		Revision: 01		
01	09.12.22	JP	REVISED TO COMMENTS / ISSUED FOR CONSTRUCTION										
CHKD													
00	04.10.22	MZ	ISSUED FOR APPROVAL										
CHKD													



REVISIONS					NOTES	Client: Cubic Works		Drawn: MZ		 H-K-L Specialists Ltd Common Road, Huthwaite, Notts, NG17 2JT tel: 01623 550357 hello@hklspecialists.co.uk			
CHKD						Project: Princess Street, Manchester		Date: 01/10/22					
CHKD				DRAWING ISSUED FOR : CONSTRUCTION		Site: Manchester		Design Check: JP		CAD Ref: HKL/JN223/PSM/MASTERFILE			
01	09.12.22	JP	REVISED TO COMMENTS / ISSUED FOR CONSTRUCTION			Title: Window Ref Rooflight		Scales: 1:2.5 @ A3		THIS DRAWING REMAINS THE PROPERTY OF J.P SPECIALIST GLAZING DESIGN LIMITED AND MAY NOT BE COPIED, REPRODUCED OR ITS CONTENTS DIVULGED WITHOUT PRIOR WRITTEN CONSENT FROM HKL SPECIALISTS LIMITED.			
CHKD						JAMB RAFTER BASE DETAIL		Project/Drawing No.: JN223-HKL-4029				Revision: 01	
00	04.10.22	MZ	ISSUED FOR APPROVAL										
CHKD													