



Hunter Evo

Double Flush Glazed Framing



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101.6mm Double Flush Glazed Framing

Technical Manual

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alspec[®]
EVERYTHING ALUMINIUM
& HARDWARE

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2. Technical Specifications

ALUMINIUM

Aluminium frames should be manufactured using Alspec's **HUNTER EVO 101.6mm DOUBLE FLUSH GLAZED FRAMING** system.

Refer to wind load tables for maximum panel heights and widths.

GLAZING

- Minimum glass thickness is 6mm with standard DG Framing and HE430 Adaptor.
- Maximum glass thickness is 30mm with standard DG Framing.
- Glazing wedges shall be Alspec's wedges for **HUNTER EVO 101.6mm DOUBLE FLUSH GLAZED FRAMING** to suit standard & captive glazing options, refer glazing pages 12.1 to 12.3.

HARDWARE

- All other hardware as per Alspec Technical Manual.

FINISHES

- All powder coated material shall be produced to AS3715.
- All anodised material shall be produced to AS1231.

All products are available from Alspec (A.B.N. 63 001 252 259) as detailed in the "Alspec" Catalogue or on the Internet at www.alspec.com.au. All such framing is to be constructed, assembled and fixed to meet the requirements of AS2047 (windows in buildings), AS1170 (loading code). All glass, glazing rubbers, seals and gaskets shall be applied in accordance with the requirements of AS1288 (glass in buildings – selection and installation).

Fabricators of the **HUNTER EVO 101.6mm DOUBLE FLUSH GLAZED FRAMING** system should seek confirmation of design wind pressure and deflection criteria from the building designer.

3. Loading Tables

Loading Table Guide

The following pages contain wind pressure tables that may be used as a guide to the suitability of Alspec Aluminium Systems framing for various wind loads and frame sizes.

In most situations the Design Wind Pressure for a particular building should be available from the building designer or engineer.

Framing must be checked for suitability.

For a Window/Door frame, which is 2400mm high and 1000mm wide, refer to the table below;

Step 1: Locate the height

Step 2: Locate the width

Step 3: Determine the Maximum wind pressure based on the height and width.

SECTION PART NO.	Panel Height	Maximum Design Pressure (Pa)					
	2850	S	1040	840	720	630	570
		U	2410	1960	1660	1460	1310
	2700	S	1230	1000	850	750	680
		U	2700	2190	1870	1640	1480
	2550	S	1460	1200	1020	910	830
		U	3040	2470	2210	1860	1690
	2400	S	1770	1450	1250	1080	1010
		U	3440	2810	2410	2080	1940
	2250	S	2160	1780	1530	1370	1270
		U	3940	3230	2780	2470	2270
	2100	S	2670	2210	1920	1730	1610
		U	4550	3750	3240	2900	2680
lxx = xxx x xxx mm4	Panel Width	800	1000	1200	1400	1600	

Diagram illustrating the steps to find the Maximum Design Pressure (Pa) for a 2400mm high and 1000mm wide window/door frame:

- STEP 1:** Locate the height (2400mm) in the Panel Height column.
- STEP 2:** Locate the width (1000mm) in the Panel Width row.
- STEP 3:** Determine the Maximum wind pressure based on the height and width. The intersection of 2400mm height and 1000mm width shows a pressure of 1450 Pa (Suction) and 2810 Pa (Uplift).

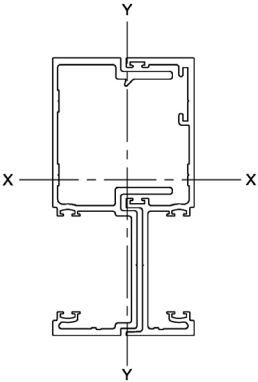
3. Loading Tables

HE402 + HE403 Mullion Combination

Max Stress = 110Mpa

S = Serviceability limit state l/250

U = Ultimate limit state

HE402 + HE403 MULLION COMBINATION	Panel Height	Maximum Design Pressure (Pa)							
	4200	S	570						
		U	1890						
	3900	S	710						
		U	2200						
	3600	S	910	610					
		U	2580	1740					
	3300	S	1180	800	610	500			
		U	3080	2080	1590	1310			
	3000	S	1580	1070	830	690	600	540	510
		U	3740	2530	1940	1610	1390	1260	1170
	2700	S	2180	1490	1150	970	850	790	750
		U	4630	3150	2430	2030	1780	1630	1540
	2400	S	3000	2150	1680	1430	1280	1210	1180
		U	5880	4030	3140	2650	2360	2210	2160
	2100	S	3000	3000	2600	2250	2080	2020	1920
		U	7740	5340	4220	3630	3320	3220	3060
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	7450	6010	5330	5120	4860	4620
$I_{xx} = 1192 \times 10^3 \text{ mm}^4$	Mullion Spacing		600	900	1200	1500	1800	2100	2400

Tables are based on theoretical section properties

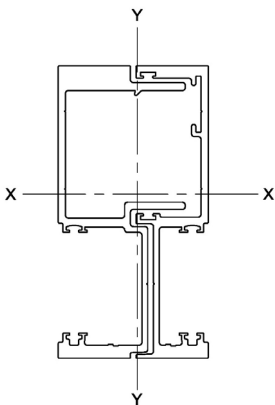
3. Loading Tables

HE422 + HE423 H.D. Mullion Combination

Max Stress = 110Mpa

S = Serviceability limit state l/250

U = Ultimate limit state

HE422 + HE423 H.D. MULLION COMBINATION	Panel Height	Maximum Design Pressure (Pa)						
		S	U	S	U	S	U	S
	4500	640						
		2090						
	4200	790	530					
		2400	1610					
	3900	990	670	510				
		2780	1870	1420				
	3600	1260	850	650	530			
		3270	2210	1680	1370			
	3300	1640	1110	850	700	610	550	
		3900	2640	2020	1660	1430	1270	
	3000	2200	1490	1150	960	830	760	710
		4740	3210	2470	2040	1770	1590	1480
	2700	3000	2070	1610	1350	1190	1090	1040
		5870	3990	3090	2570	2250	2060	1950
	2400	3000	2980	2340	1990	1790	1680	1650
		7460	5110	3980	3360	2990	2800	2740
	2100	3000	3000	3000	3000	2890	2820	2680
		9000	6770	5350	4600	4210	4090	3890
	1800	3000	3000	3000	3000	3000	3000	3000
		9000	9000	7620	6760	6490	6160	5850
$I_{xx} = 1656 \times 10^3 \text{ mm}^4$	Mullion Spacing	600	900	1200	1500	1800	2100	2400

Tables are based on theoretical section properties

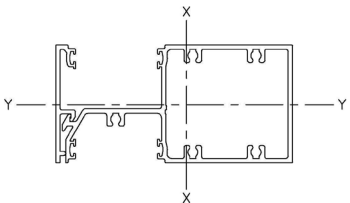
3. Loading Tables

HE412 + HE313 Transom

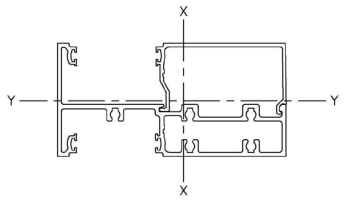
Max Stress = 110Mpa

S = Serviceability limit state I/250

U = Ultimate limit state

HE412 + HE313 TRANSOM	Transom Centres	Maximum Design Loads (Pa)					
	2400	S	3000	2250	1580		
		U	7485	3430	2300		
	2100	S	3000	3000	1670	950	
		U	7879	3620	2430	1460	
	1800	S	3000	3000	1760	980	
		U	8294	3810	2320	1500	
	1500	S	3000	3000	1830	1060	
		U	8730	4010	2420	1640	
	1200	S	3000	3000	2040	1220	
		U	7840	4250	2720	1910	
	900	S	3000	3000	2510	1530	1010
		U	8580	5070	3380	2420	1820
	Max Kg		180	180	150	100	65
$I_{xx} = 561 \times 10^3 \text{ mm}^4$ $I_{yy} = 202 \times 10^3 \text{ mm}^4$	Transom length		1200	1500	1800	2100	2400

HE410 + HE411 Transom

HE410 + HE411 TRANSOM	Transom Centres	Maximum Design Loads (Pa)					
	2400	S	3000	3000			
		U	9000	4570			
	2100	S	3000	3000			
		U	9000	4820			
	1800	S	3000	3000	2280		
		U	9000	5070	3090		
	1500	S	3000	3000	2360		
		U	9000	5340	3220		
	1200	S	3000	3000	2630		
		U	9000	5660	3630		
	900	S	3000	3000	3000	1980	
		U	9000	6740	4490	3220	
	Max Kg		180	120	70	45	
$I_{xx} = 723 \times 10^3 \text{ mm}^4$ $I_{yy} = 91 \times 10^3 \text{ mm}^4$	Transom length		1200	1500	1800	2100	

Tables are based on theoretical section properties

Maximum glass weights have been determined to limit deflection to 5mm, using setting block locations at 1/8 points.

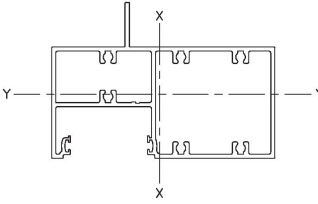
3. Loading Tables

HE424 Transom DG 35mm Sash

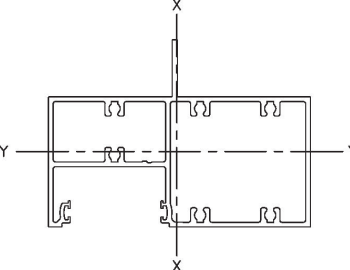
Max Stress = 110Mpa

S = Serviceability limit state I/250

U = Ultimate limit state

HE424 TRANSOM DG 35mm SASH	Transom Centres	Maximum Design Loads (Pa)							
	1800	S	3000						
		U	9000						
	1500	S	3000	3000	3000				
		U	9000	9000	9000				
	1200	S	3000	3000	3000	3000	3000	3000	
		U	9000	9000	9000	9000	8300	6940	
	900	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	8280	7160
	Max Kg		-	-	-	-	-	-	-
	Transom length		1000	1100	1200	1300	1400	1500	1600
$I_{xx} = 872 \times 10^3 \text{ mm}^4$ $I_{yy} = 311 \times 10^3 \text{ mm}^4$									

HE425 Transom DG 50mm Sash

HE425 TRANSOM DG 50mm SASH	Transom Centres	Maximum Design Loads (Pa)							
	1800	S	3000						
		U	9000						
	1500	S	3000	3000	3000				
		U	9000	9000	9000				
	1200	S	3000	3000	3000	3000	3000	3000	
		U	9000	9000	9000	9000	8130	6800	
	900	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	8110	7020
	Max Kg		-	-	-	-	-	-	-
	Transom length		1000	1100	1200	1300	1400	1500	1600
$I_{xx} = 863 \times 10^3 \text{ mm}^4$ $I_{yy} = 318 \times 10^3 \text{ mm}^4$									

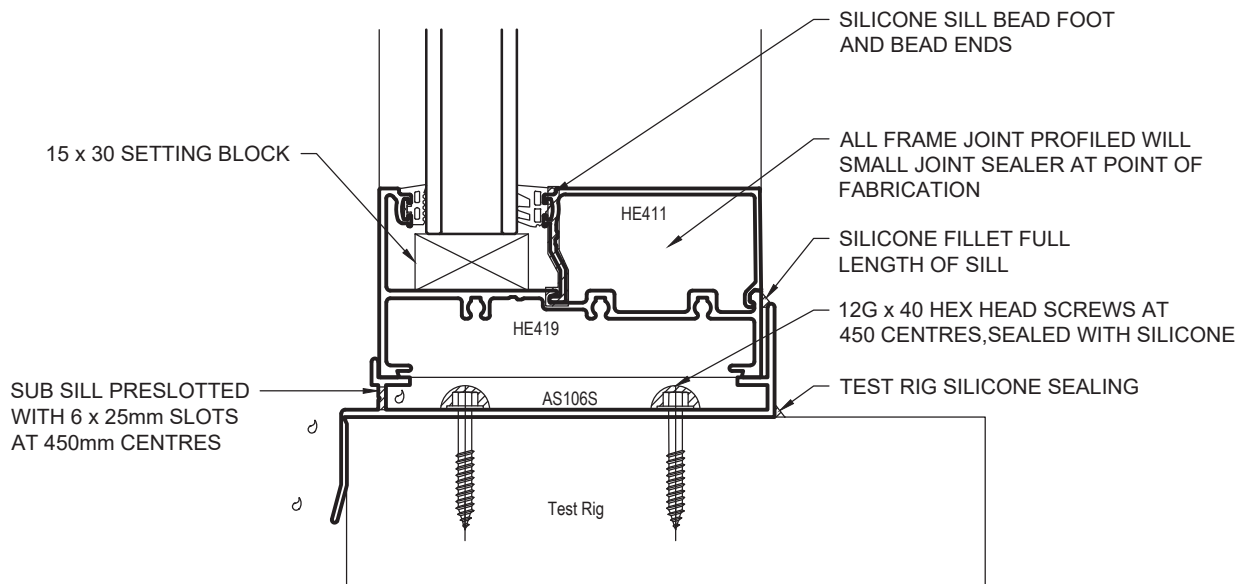
Tables are based on theoretical section properties

Maximum glass weights have been determined to limit deflection to 5mm, using setting block locations at 1/8 points.

4. Test Summary

AS2047 - Fixed/Fixed/Fixed over Fixed

TEST REPORT:	OT20-013
SYSTEM CONFIGURATION	HUNTER EVO 101.6mm DG F/F/F-F WITH HE422 HE423 MULLION & HE410 HE411 TRANSOM
TEST SAMPLE SIZE	2700 H x 3597 W
SERVICEABILITY LOAD	+/- 1700 Pa
ULTIMATE LOAD	+/- 3100 Pa
WATER PENETRATION	607 Pa
AIR INFILTRATION @ 75Pa	+ 0.06 L/s/ms ² - 0.09 L/s/ms ²

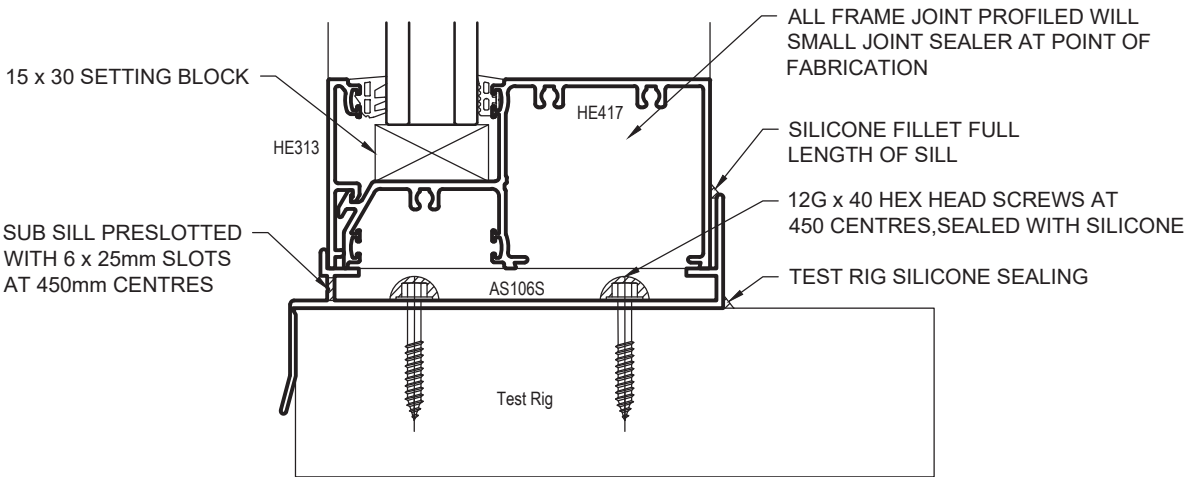


DISCLAIMER:
Please note that the test results shown above reflect specific configurations of a system and are representative only. If a specific high wind load or a different configuration (i.e. changes to frames, transoms, mullions) is required on a project please discuss with Alspec prior to commencement.

4. Test Summary

AS2047 - Fixed/Fixed/Fixed over Fixed

TEST REPORT:	OT20-014
SYSTEM CONFIGURATION	HUNTER EVO 101.6mm DG F/F/F-F WITH HE402 HE403 MULLION & HE412 HE313 TRANSOM
TEST SAMPLE SIZE	2700 H x 3601 W
SERVICEABILITY LOAD	+/- 1200 Pa
ULTIMATE LOAD	+/- 3100 Pa
WATER PENETRATION	493 Pa
AIR INFILTRATION @ 75Pa	+ 0.06 L/s/ms ² - 0.07 L/s/ms ²



DISCLAIMER:

Please note that the test results shown above reflect specific configurations of a system and are representative only. If a specific high wind load or a different configuration (i.e. changes to frames, transoms, mullions) is required on a project please discuss with Alspec prior to commencement.

4. Test Summary

Acoustic Test Result- AS/ NZS ISO 717.1

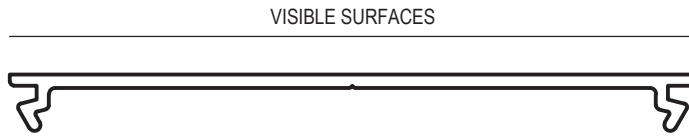
TEST REPORT	PRODUCT DESCRIPTION	SIZE	GLASS	Rw
14-107	HUNTER EVO 101.6mm F/F	2.1m (H) x 1.8m (W)	6.38mm LAMINATE/ 12mm AIR SPACE/ 6.38mm LAMINATE	36
TL636-01-2	HUNTER EVO 101.6mm F-A-F ASW725 SASH, ASW70 HINGED HEAD	1.2m (H) x 1.8m (W)	6.76mm LAMINATE/ 13.5mm ARGON/ 6.76mm LAMINATE	41

Impact - AS/NZ1170.2 Section 2.5.7 & 5.3.2

TEST REPORT	GLASS	SIZE	RESULT
INZ38120-06A	12.4mm GLASSHAPE GEN 2 STORMSHIELD	2.1m (H) x 1.0m (W)	39 m/s
AZT0342.18	16.6mm STORMSAFE LAM	2.38m (H) x 1.18m (W)	36 m/s
AZT0137.18	13.8mm STORMSAFE LAM	2.4m (H) x 1.2m (W)	31 m/s

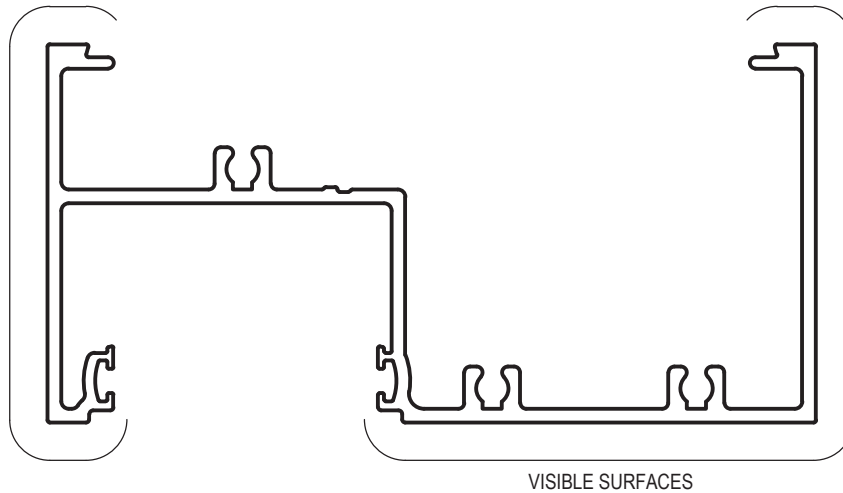
DISCLAIMER:

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AS5
FLUSH ADAPTOR

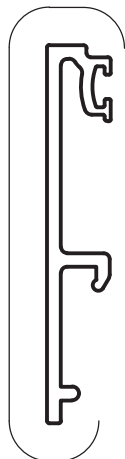
Mass. 0.500 Kg/m
Anod. Per. 213
Paint Per. 100



HE401
101.6mm DG
FRAME / JAMB

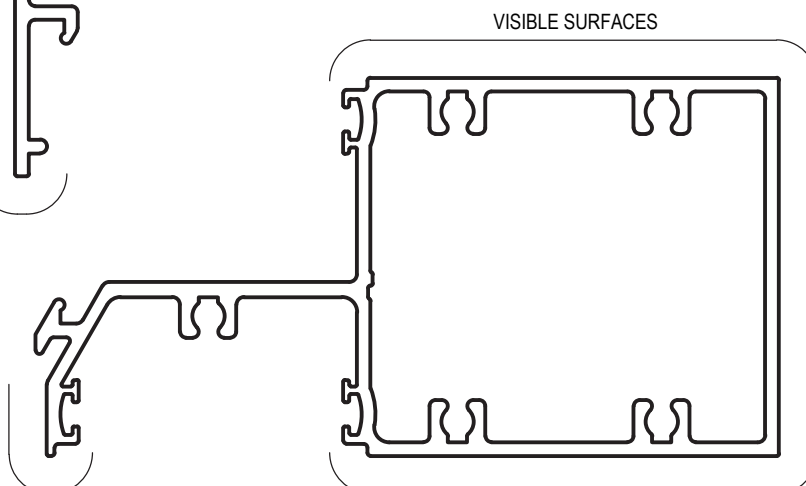
Mass. 1.468 Kg/m
Anod. Per. 592
Paint Per. 172
 $I_{xx} = 757.25 \times 10^3 \text{ mm}^4$

VISIBLE SURFACES



HE313
FACE GLAZING BEAD

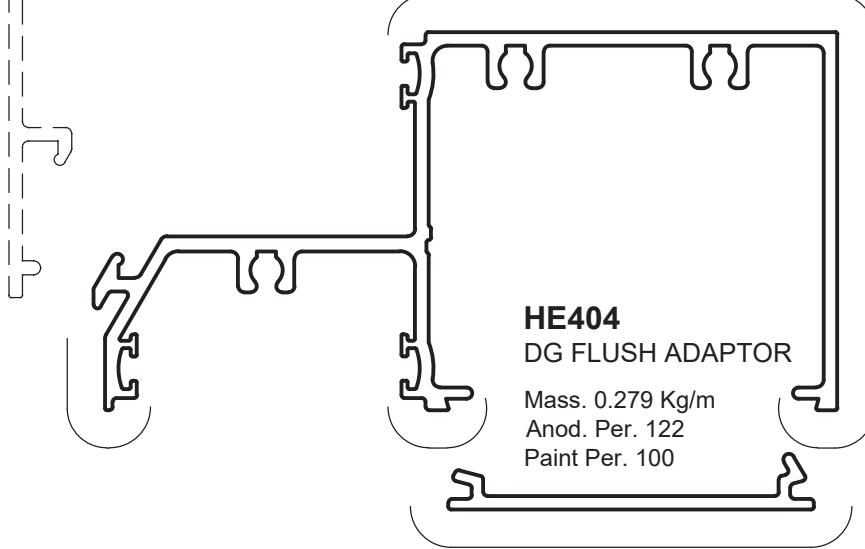
Mass. 0.371 Kg/m
Anod. Per. 160
Paint Per. 100



HE412
DG EXTERNAL
GLAZE TRANSOM

Mass. 1.702 Kg/m
Anod. Per. 399
Paint Per. 170
 $I_{xx} = 561.20 \times 10^3 \text{ mm}^4$
 $I_{yy} = 201.78 \times 10^3 \text{ mm}^4$

HE313



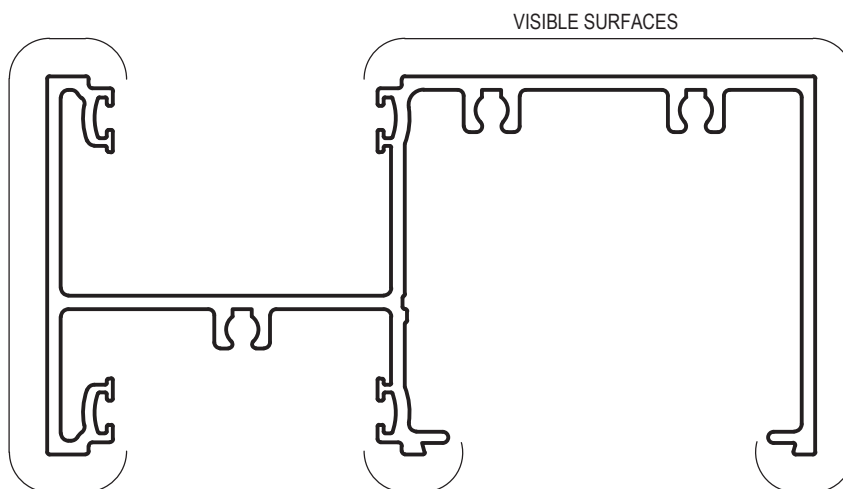
HE417
DG EXTERNAL
GLAZESILL

Mass. 1.374 Kg/m
Anod. Per. 558
Paint Per. 121

$I_{xx} = 510.49 \times 10^3 \text{ mm}^4$

HE404
DG FLUSH ADAPTOR

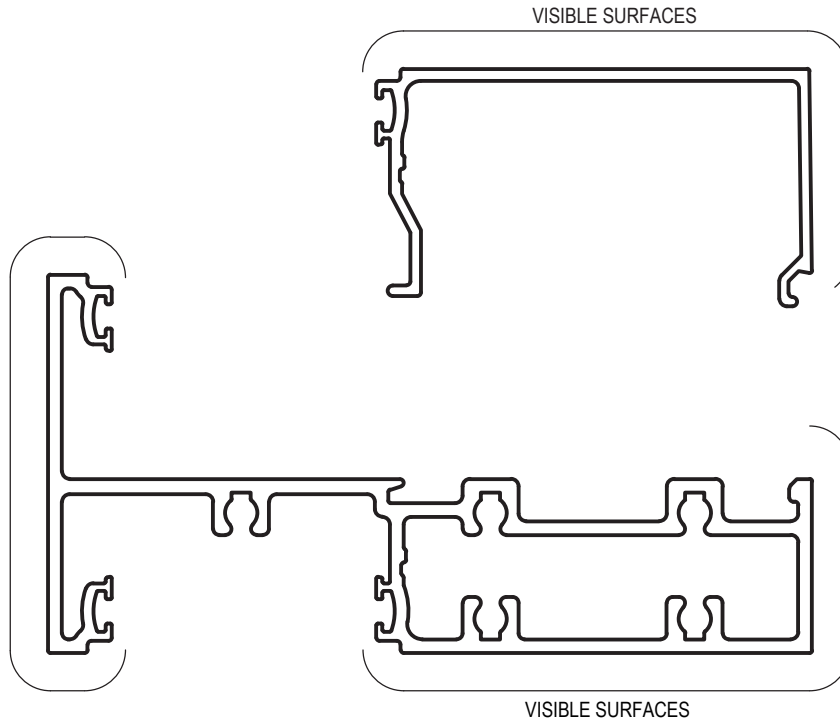
Mass. 0.279 Kg/m
Anod. Per. 122
Paint Per. 100



HE416
101.6mm DG FRAME /
JAMB 2 WAY GLAZING

Mass. 1.609 Kg/m
Anod. Per. 668
Paint Per. 177

$I_{xx} = 754.29 \times 10^3 \text{ mm}^4$



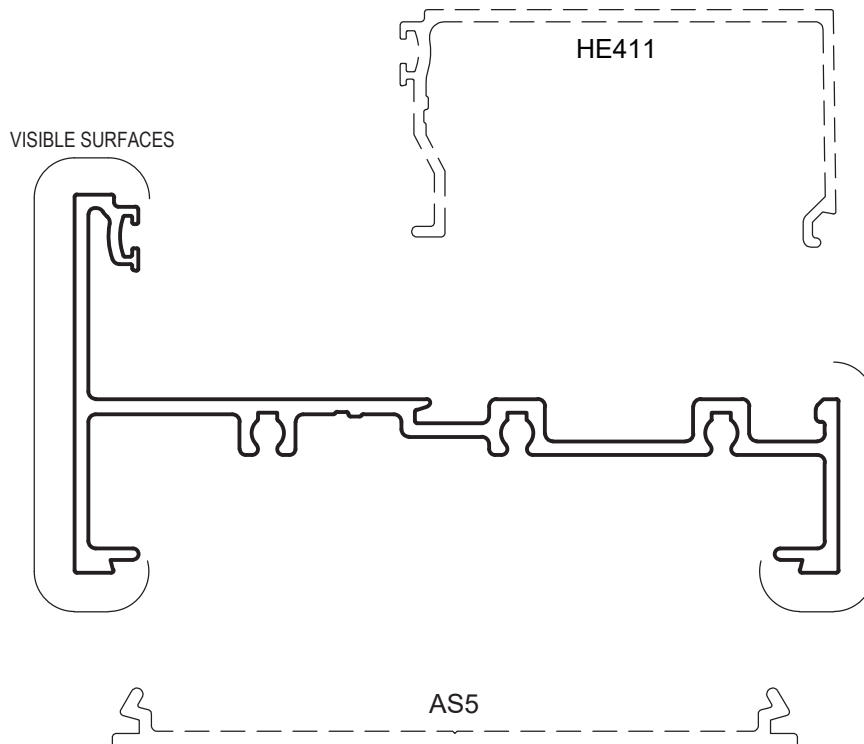
HE411
DG INTERNAL
GLAZING BEAD

Mass. 0.507 Kg/m
Anod. Per. 252
Paint Per. 100

HE410
DG INTERNAL
GLAZE TRANSOM

Mass. 1.689 Kg/m
Anod. Per. 473
Paint Per. 138

$I_{xx} = 722.85 \times 10^3 \text{ mm}^4$
 $I_{yy} = 91.18 \times 10^3 \text{ mm}^4$

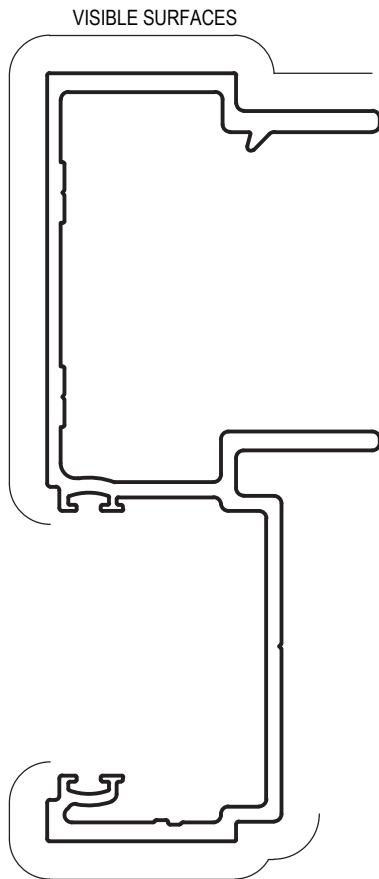


HE419
DG INTERNAL
GLAZE SILL

Mass. 1.219 Kg/m
Anod. Per. 474
Paint Per. 100

$I_{xx} = 615.14 \times 10^3 \text{ mm}^4$

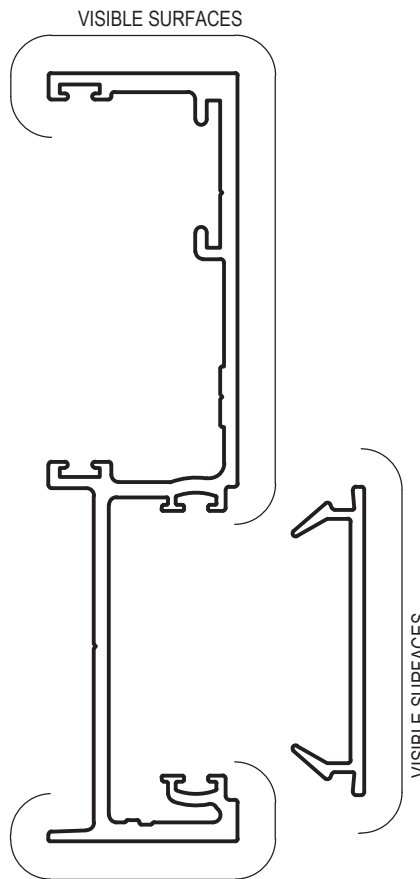
5. Extrusions



HE402
101.6mm DG
MALE MULLION

Mass. 1.477 Kg/m
Anod. Per. 511
Paint Per. 133

$I_{xx} = 666.03 \times 10^3 \text{ mm}^4$



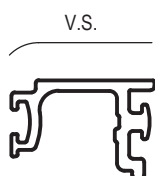
HE403
101.6mm DG
FEMALE MULLION

Mass. 1.130 Kg/m
Anod. Per. 427
Paint Per. 111

$I_{xx} = 526.10 \times 10^3 \text{ mm}^4$

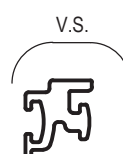
ECO208R
FLUSH POCKET
INFILL DG

Mass. 0.253 Kg/m
Anod. Per. 119
Paint Per. 100



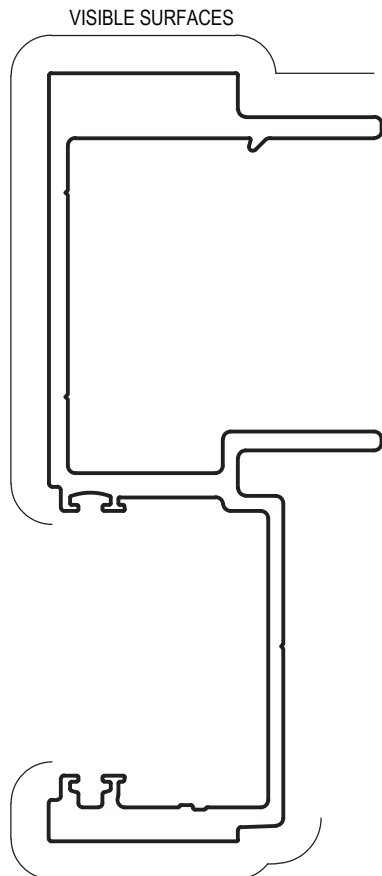
HE430
SINGLE GLAZE
ADAPTOR

Mass. 0.192 Kg/m
Anod. Per. 111
Paint Per. 100



ECO123
GLAZING
ADAPTOR

Mass. 0.118 Kg/m
Anod. Per. 100
Paint Per. 100

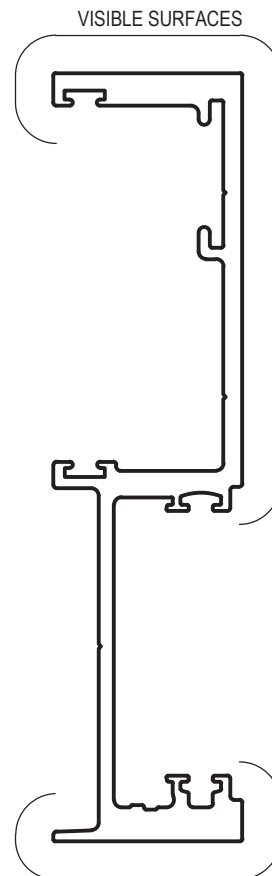


HE422

101.6mm DG H.D.
MALE MULLION

Mass. 2.060 Kg/m
Anod. Per. 483
Paint Per. 134

$I_{xx} = 1000.85 \times 10^3 \text{ mm}^4$



HE423

101.6mm DG H.D.
FEMALE MULLION

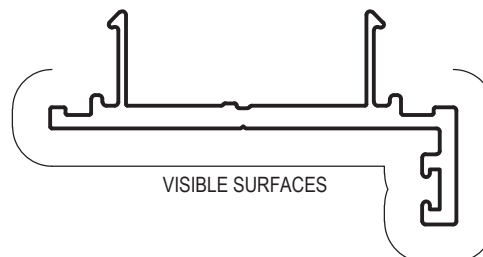
Mass. 1.376 Kg/m
Anod. Per. 407
Paint Per. 115

$I_{xx} = 655.33 \times 10^3 \text{ mm}^4$

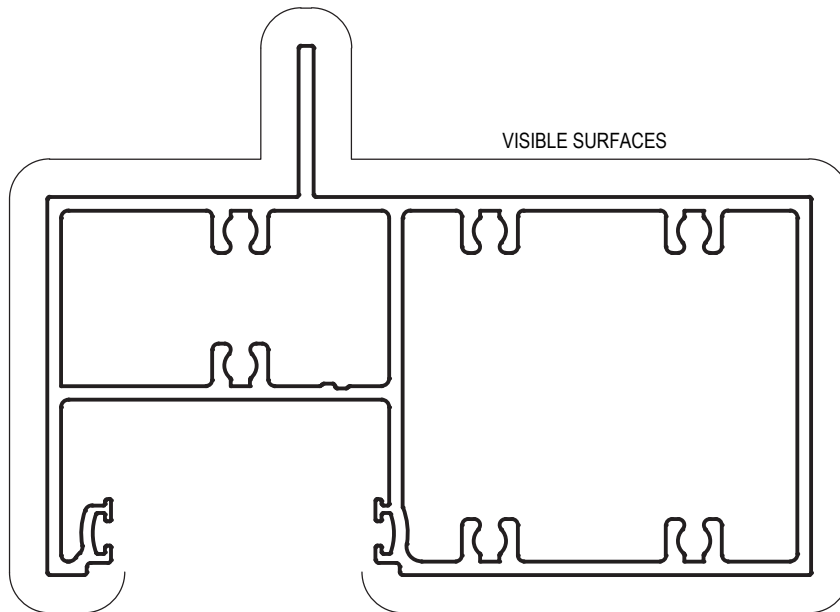
HE408

45mm DOOR STOP

Mass. 0.601 Kg/m
Anod. Per. 211
Paint Per. 100



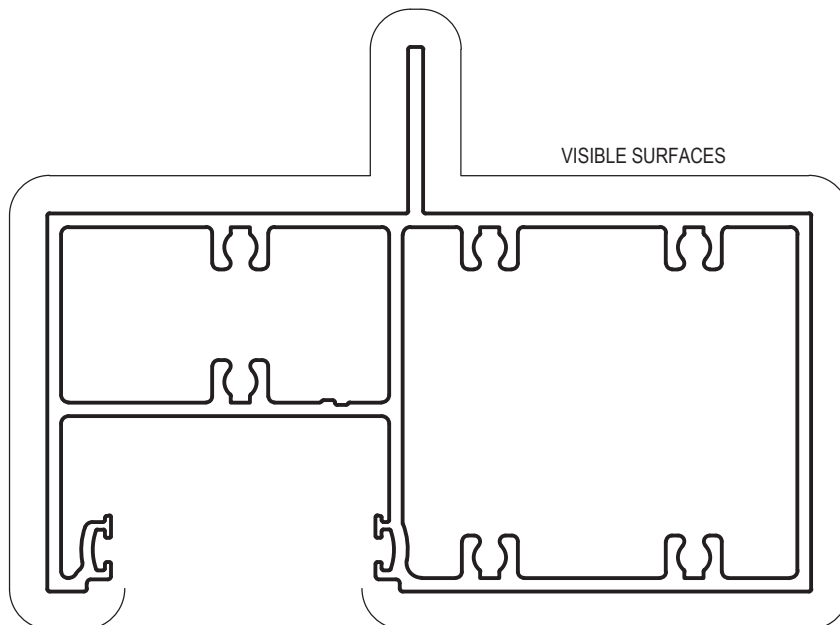
5. Extrusions



HE424
TRANSOM DG
35mm SASH

Mass. 2.231 Kg/m
Anod. Per. 433
Paint Per. 300

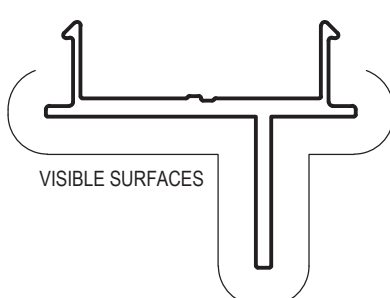
$I_{xx} = 871.91 \times 10^3 \text{ mm}^4$
 $I_{yy} = 311.33 \times 10^3 \text{ mm}^4$



HE425
TRANSOM DG
50mm SASH

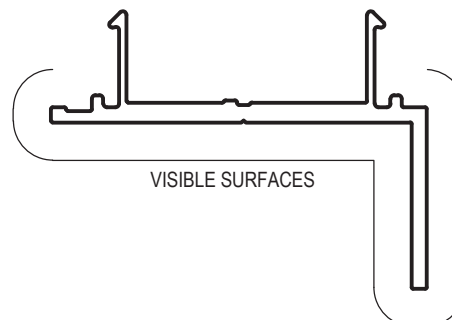
Mass. 2.242 Kg/m
Anod. Per. 437
Paint Per. 308

$I_{xx} = 863.47 \times 10^3 \text{ mm}^4$
 $I_{yy} = 318.42 \times 10^3 \text{ mm}^4$



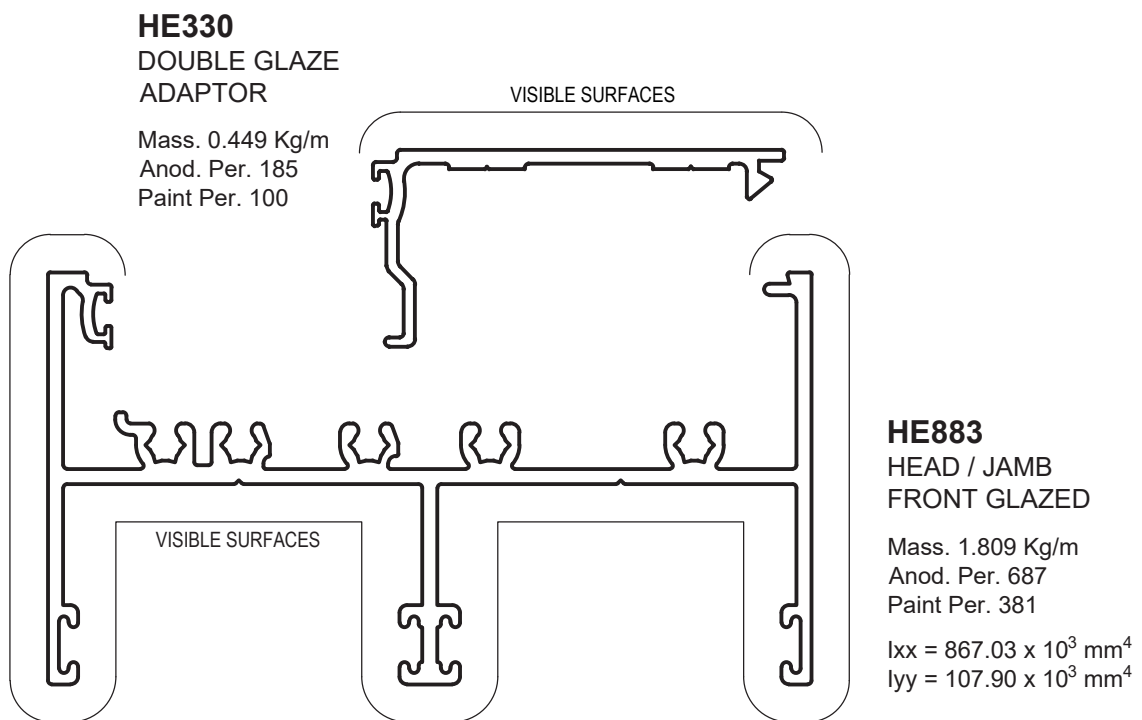
HE427
35mm SASH
ADAPTOR DG

Mass. 0.418 Kg/m
Anod. Per. 169
Paint Per. 100

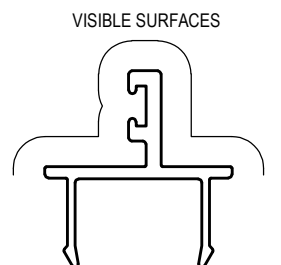
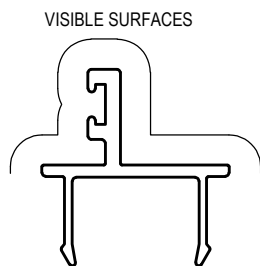
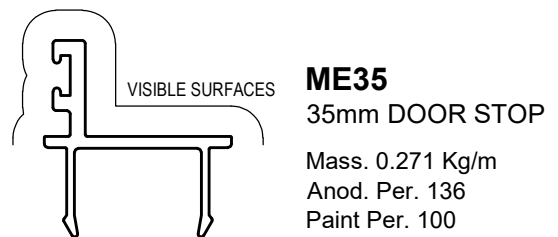
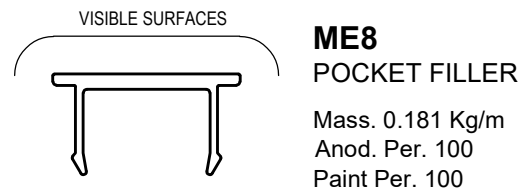
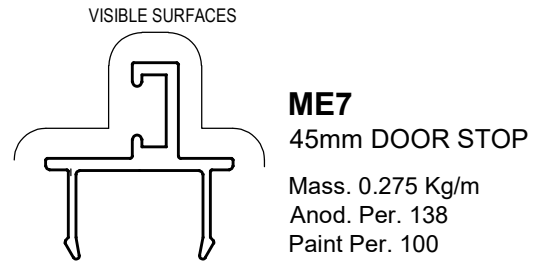
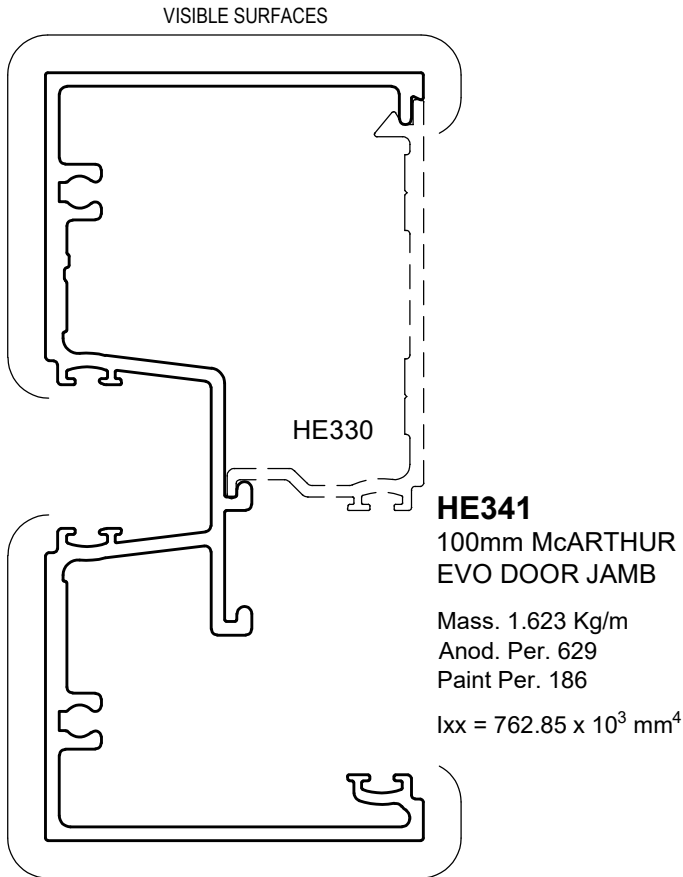


HE421
50mm SASH
ADAPTOR DG

Mass. 0.525 Kg/m
Anod. Per. 205
Paint Per. 100

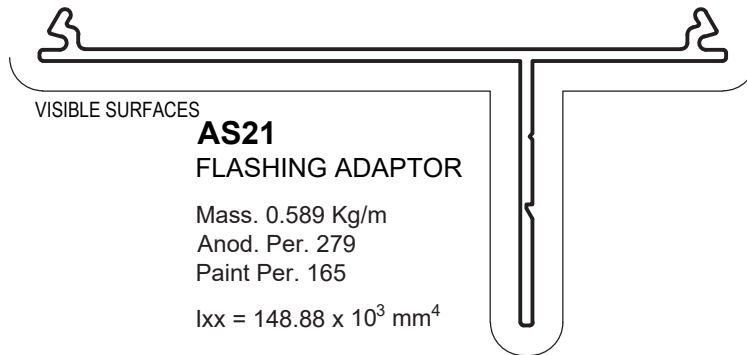


5. Extrusions





5. Extrusions

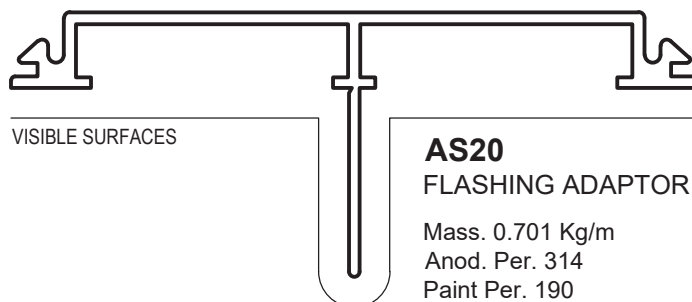
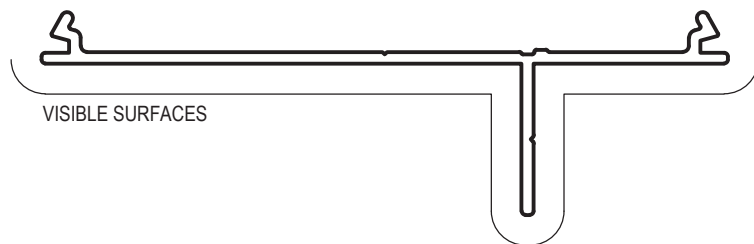


AS21
FLASHING ADAPTOR

Mass. 0.589 Kg/m
Anod. Per. 279
Paint Per. 165
 $I_{xx} = 148.88 \times 10^3 \text{ mm}^4$

AS221
20mm REVEAL ADAPTOR

Mass. 0.522 Kg/m
Anod. Per. 250
Paint Per. 100
 $I_{xx} = 141.90 \times 10^3 \text{ mm}^4$

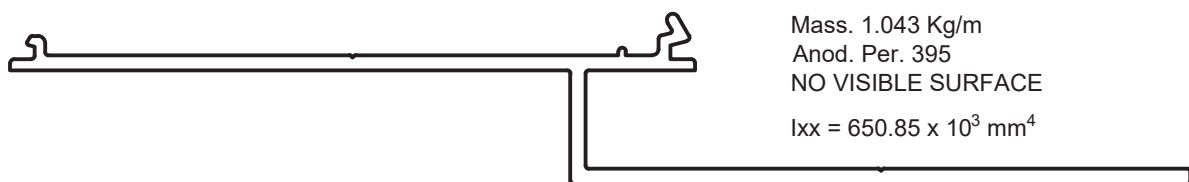


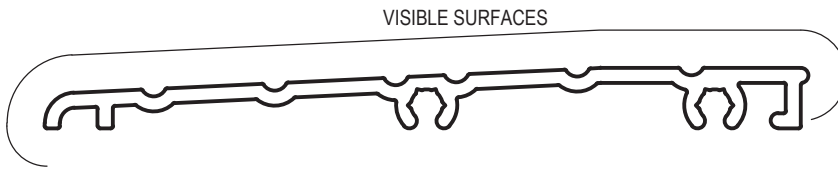
AS20
FLASHING ADAPTOR

Mass. 0.701 Kg/m
Anod. Per. 314
Paint Per. 190
 $I_{xx} = 193.39 \times 10^3 \text{ mm}^4$

AS222
101.6mm 13mm PLASTERBOARD
ADAPTOR

Mass. 1.043 Kg/m
Anod. Per. 395
NO VISIBLE SURFACE
 $I_{xx} = 650.85 \times 10^3 \text{ mm}^4$





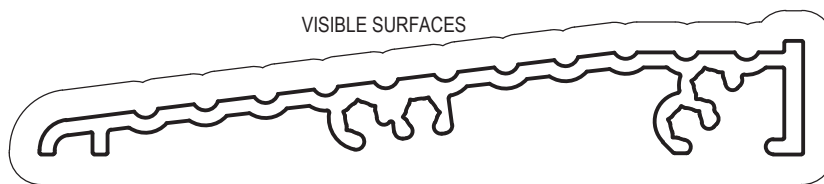
AS1800

100mm DISABLE ACCESS
THRESHOLD

Mass. 0.740 Kg/m

Anod. Per. 272

Paint Per. 111



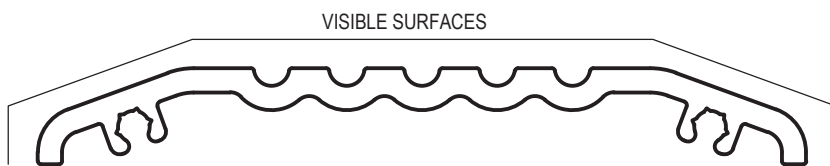
AD008

101.6mm DISABLED
RAMP THRESHOLD

Mass. 0.953 Kg/m

Anod. Per. 330

Paint Per. 129



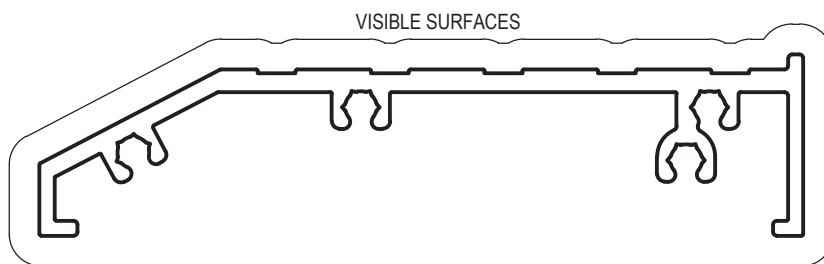
AS1853

101.6mm THRESHOLD

Mass. 1.136 Kg/m

Anod. Per. 277

Paint Per. 131



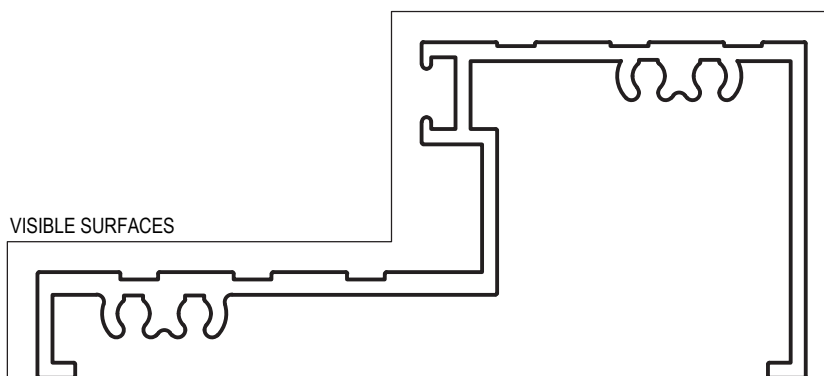
AS1855

101mm THRESHOLD

Mass. 1.202 Kg/m

Anod. Per. 370

Paint Per. 143



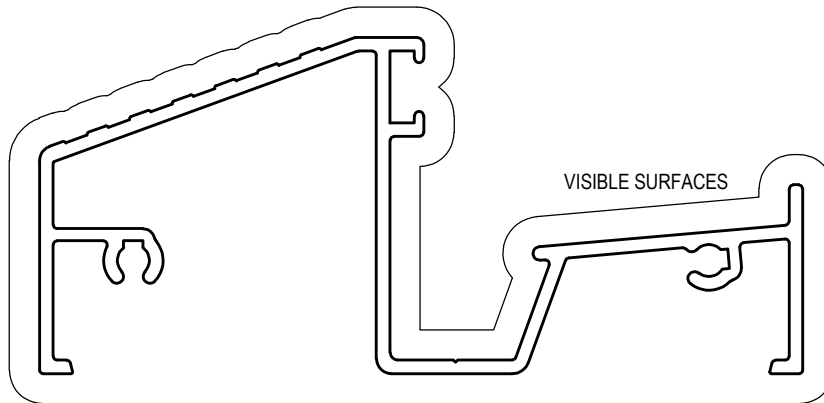
AS2366

45mm DOOR THRESHOLD
OUTWARD OPENING

Mass. 1.552 Kg/m

Anod. Per. 491

Paint Per. 239



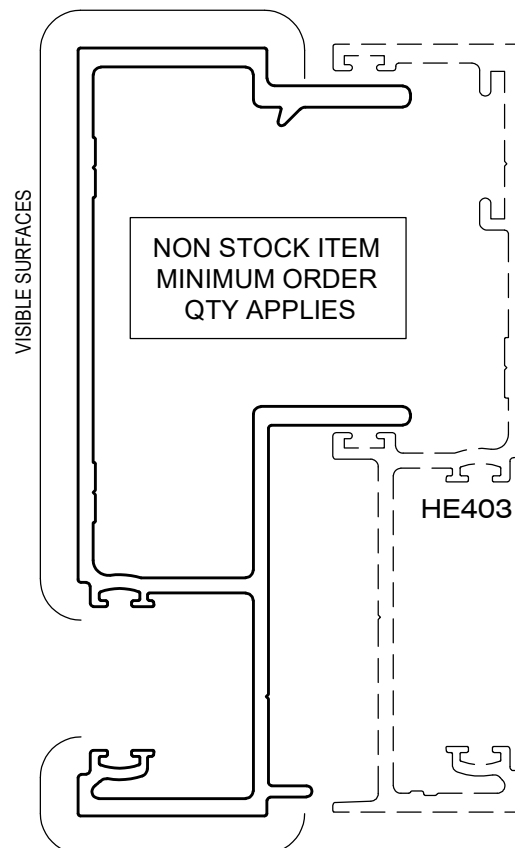
AS2371
45mm DOOR
THRESHOLD
INWARD OPENING

Mass. 1.285 Kg/m
Anod. Per. 523
Paint Per. 245

HE842
SINGLE TO DOUBLE
GLAZED MALE MULLION

Mass. 1.524 Kg/m
Anod. Per. 533
Paint Per. 130

$I_{xx} = 679.25 \times 10^3 \text{ mm}^4$



HE403

6. Hardware & Components

Glazing Wedges

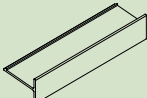
IMAGE	TO SUIT GAP	MATERIAL	PART #	DESCRIPTION
	3mm	PVC	1313055	GR43 GLAZING WEDGE (BROWN) (3mm GAP) PVC x 200m ROLL
		S/PRENE	1313063	GR43S GLAZING WEDGE (BROWN) (3mm GAP) S/PRENE x 200m ROLL
	4mm	PVC	1313056	GR44 GLAZING WEDGE (WHITE) (4mm GAP) PVC x 200m ROLL
		S/PRENE	1313064	GR44S GLAZING WEDGE (WHITE) (4mm GAP) S/PRENE x 200m ROLL
	5mm	PVC	1313057	GR45 GLAZING WEDGE (BLUE) (5mm GAP) PVC x 150m ROLL
		S/PRENE	1313065	GR45S GLAZING WEDGE (BLUE) (5mm GAP) S/PRENE x 150m ROLL
	6mm	PVC	1313058	GR46 GLAZING WEDGE (YELLOW) (6mm GAP) PVC x 150m ROLL
		S/PRENE	1313066	GR46S GLAZING WEDGE (YELLOW) (6mm GAP) S/PRENE x 150m ROLL
	7mm	PVC	1313059	GR47 GLAZING WEDGE (RED) (7mm GAP) PVC x 150m ROLL
		S/PRENE	1313062	GR47S GLAZING WEDGE (RED) (7mm GAP) S/PRENE x 150m ROLL
	8mm	PVC	1313060	GR48 GLAZING WEDGE (ORANGE) (8mm GAP) PVC x 150m ROLL
		S/PRENE	1313067	GR48S GLAZING WEDGE (ORANGE) (8mm GAP) S/PRENE x 150m ROLL

Backing Gaskets

IMAGE	TO SUIT GAP	MATERIAL	PART #	DESCRIPTION
	2mm	PVC	1313052	GR36 BACKING GASKET - PUSH IN (2mm GAP) PVC x 200m ROLL
		S/PRENE	1313053	GR36S BACKING GASKET - PUSH IN (2mm GAP) S/PRENE x 200m ROLL
	2mm	PVC	1313079	CE36 CO-EXT BACKING GASKET (2mm GAP) PVC x 100m ROLL
		S/PRENE	1313080	CE36S CO-EXT BACKING GASKET (2mm GAP) S/PRENE x 100m ROLL
	4mm	PVC	1313054	GR37 BACKING GASKET - PUSH IN (4mm GAP) PVC x 175m ROLL
		S/PRENE	1313069	GR37S BACKING GASKET - PUSH IN (4mm GAP) S/PRENE x 175m ROLL
	4mm	PVC	1313081	CE37 CO-EXT BACKING GASKET (4mm GAP) PVC x 100m ROLL
		S/PRENE	1313082	CE37S CO-EXT BACKING GASKET (4mm GAP) S/PRENE x 100m ROLL
	6mm	PVC	1313074	GR49 BACKING GASKET - PUSH IN (6mm GAP) PVC x 100m ROLL
		S/PRENE	1313075	GR49S BACKING GASKET - PUSH IN (6mm GAP) S/PRENE x 100m ROLL
	6mm	PVC	1313083	CE49 CO-EXT BACKING GASKET (6mm GAP) PVC x 100m ROLL
		S/PRENE	1313084	CE49S CO-EXT BACKING GASKET (6mm GAP) S/PRENE x 100m ROLL

6. Hardware & Components

Seals

IMAGE	PART #	FINISH	DESCRIPTION
	1376079	BLACK (034)	CE308 CO-EXT DOOR BUFFER S/PRENE x 200m ROLL
	1376449	BLACK (034)	MS6 MULLION SEAL PVC x 200m
	1376402	BLACK (034)	DB1 DOOR STOP RUBBER x 100m
	1376403	GREY (036)	DB1 DOOR STOP RUBBER GREY x 200m
	1378140	MILL (001)	ECO106 MULLION CLIP x 150mm 6106 T6

Fasteners

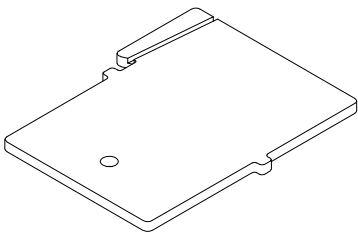
SCREWS			
PART #	HEAD	DESCRIPTION	LOCATION
1382644	SQUARE #2	10g x 1 (25mm) 304SS SQ #2 PAN S/TAP SCREW x 1000	MAIN FRAME
1382659	SQUARE #2	10g x 2 (51mm) 304SS SQ #2 CSK S/TAP SCREW x 1000	MULLION

Frame Joint Gaskets

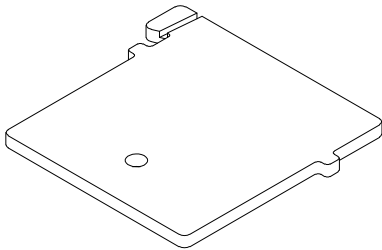
PART #	DESCRIPTION	FINISH
1385509	FJG50 FRAME JOINT GASKET PVC FOAM TAPE 50 x 1.6mm 45.7m	BLACK (034)
		GREY (036)

6. Hardware & Components

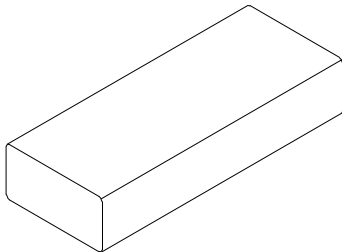
Accessories



HE003 POCKET STOP x 50 (TO SUIT HE401/ HE402/ HE422)	
PART	1378196
FINISH	NOT SPECIFIED (099)
QTY	BAG



HE004 POCKET STOP x 50 (TO SUIT HE403 & HE423)	
PART	1378197
FINISH	NOT SPECIFIED (099)
QTY	BAG



SETTING BLOCK 15x30x75mm	
PART	1376733
FINISH	BLACK (034)
QTY	BAG OF 50

6. Hardware & Components

Silicone



100% NEUTRAL CURE SILICONE

- Premium 100% silicone
- UV Stable
- Superior adhesion
- Flexible + 25%
- AS4020 Approved



100% MATTE NEUTRAL CURE SILICONE

- Premium 100% silicone
- Matte finish
- UV Stable
- Outstanding elongation
- Higher strength



41 CLADDING SILICONE

- Premium 100% silicone
- UV Stable
- Superior adhesion
- Movement capability + 50%



WET AREA SILICONE

- Premium 100% silicone
- Mould inhibited
- Movement capability + 25%
- UV Stable
- Non corrosive
- Superior adhesion



HYBRID PU ADHESIVE SEALANT

- No isocyanates
- Internal/External
- No shrinking/staining
- Paintable
- Excellent adhesion



20 ACETIC CURE SILICONE

- Premium 100% silicone
- UV Stable
- Superior adhesion
- Flexible + 25%



D60 SILICONE

- Premium 100% silicone
- UV Stable
- 2-5 minute skin time
- Flexible + 25%
- No slump

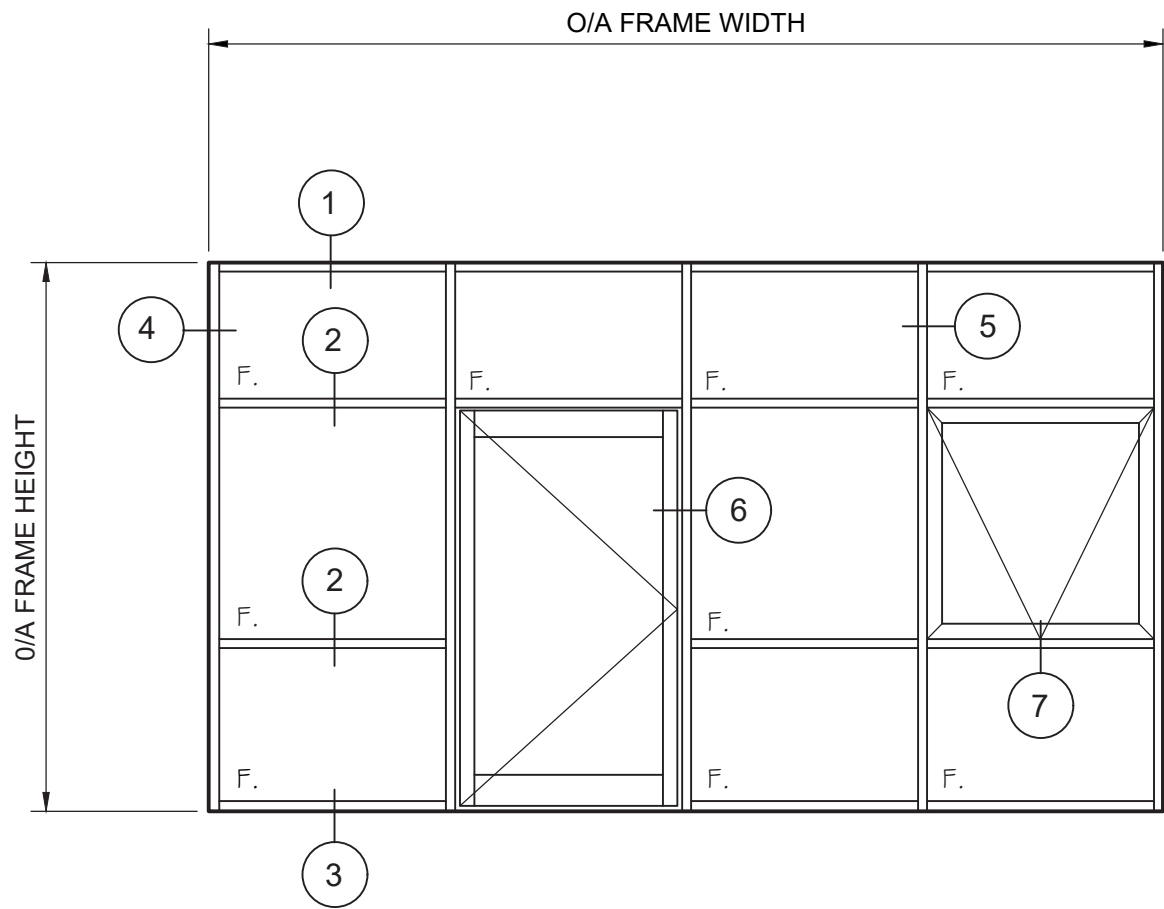
*For more information on silicones,
please refer to Alspec Silicone Brochure.



6. Hardware & Components

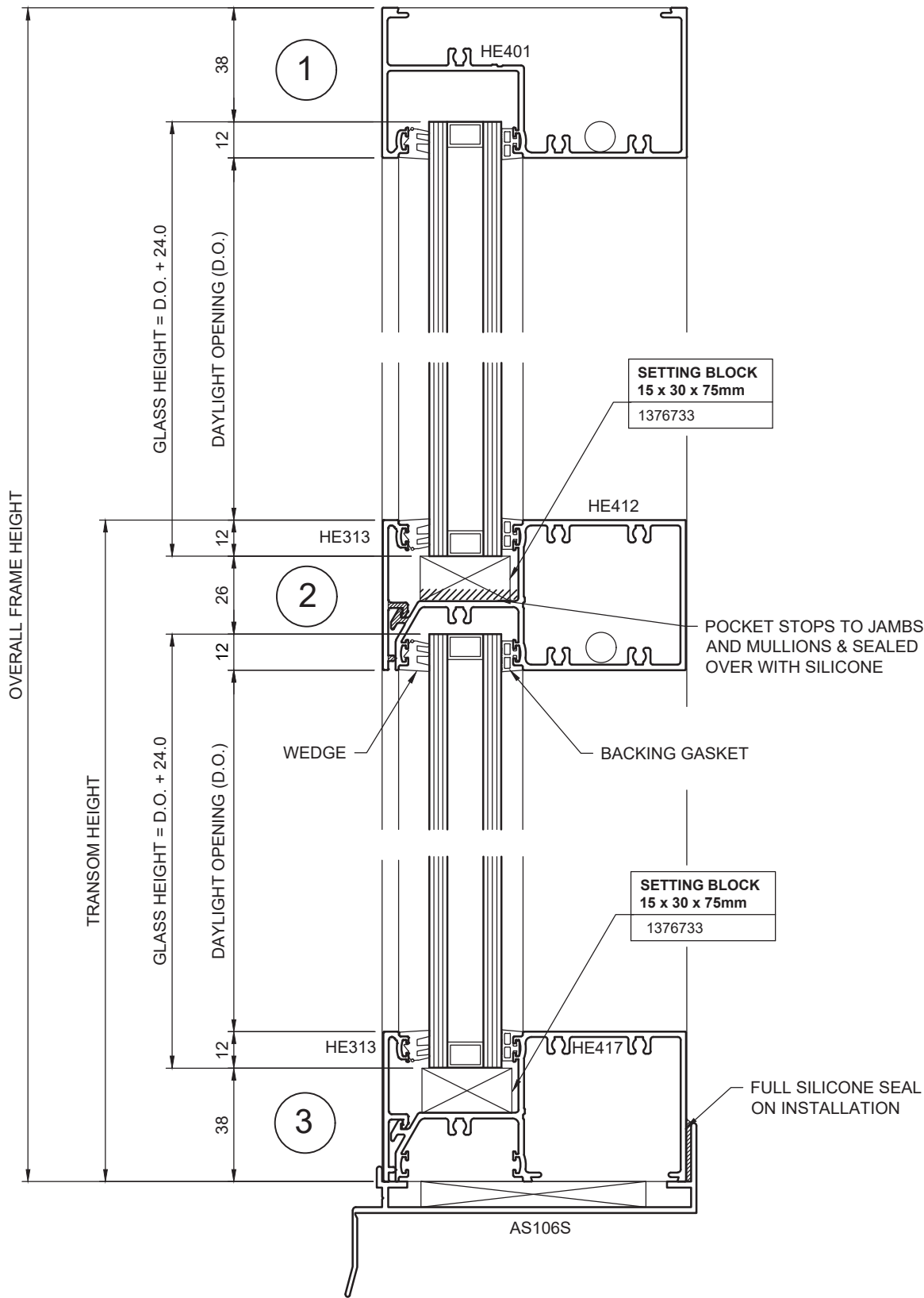
Silicone Product Codes

Product Category	Item No.	Alspec Part No. Code	Description	Finish	Pack
ALSPEC 100%	1	1386113	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	ALMOND IVORY	CARTRIDGE
	2	1386114	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	ALUMINIUM	CARTRIDGE
	3	1386105	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	BLACK	CARTRIDGE
	4	1386140	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	CAULFIELD GREEN	CARTRIDGE
	5	1386111	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	CLASSIC CREAM	CARTRIDGE
	6	1386108	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	GREY	CARTRIDGE
	7	1386138	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	MONUMENT	CARTRIDGE
	8	1386112	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	OFF WHITE	CARTRIDGE
	9	1386141	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	STONE BEIGE	CARTRIDGE
	10	1386101	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	TRANSLUCENT	CARTRIDGE
	11	1386106	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	WHITE	CARTRIDGE
	12	1386143	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	WOODLAND GREY	CARTRIDGE
ALSPEC 100% MATT	13	1386103	ALSPEC 100% NEUTRAL CURE SILICONE x 420g CAT	BLACK MATT	CARTRIDGE
	14	1386107	ALSPEC 100% NEUTRAL CURE SILICONE x 420g CAT	GREY MATT	CARTRIDGE
	15	1386144	ALSPEC 100% NEUTRAL CURE SILICONE x 420g CAT	WHITE MATT	CARTRIDGE
ALSPEC 20	16	1386115	ALSPEC 20 SILICONE x 310g CAT	TRANSLUCENT	CARTRIDGE
ALSPEC 41 CLADDING	17	1386159	ALSPEC 41 SILICONE x 400g CAT	BLACK MATT	CARTRIDGE
	18	1386117	ALSPEC 41 SILICONE x 600ml SAU	BLACK MATT	SAUSAGE
	19	1386158	ALSPEC 41 SILICONE x 400g CAT	LIGHT GREY MATT	CARTRIDGE
	20	1386118	ALSPEC 41 SILICONE x 600ml SAU	LIGHT GREY MATT	SAUSAGE
	21	1386157	ALSPEC 41 SILICONE x 400g CAT	WHITE MATT	CARTRIDGE
	22	1386145	ALSPEC 41 SILICONE x 600ml SAU	WHITE MATT	SAUSAGE
ALSPEC D60	23	1386121	ALSPEC D60 SILICONE x 310g CAT	BLACK	CARTRIDGE
	25	1386123	ALSPEC D60 SILICONE x 310g CAT	GREY	CARTRIDGE
	26	1386120	ALSPEC D60 SILICONE x 310g CAT	TRANSLUCENT	CARTRIDGE
ALSPEC HYBRID PU	27	1386124	ALSPEC D60 SILICONE x 310g CAT	WHITE	CARTRIDGE
	28	1386127	ALSPEC HYBRID PU x 480g CAT	BLACK	CARTRIDGE
	29	1386126	ALSPEC HYBRID PU x 600ml SAU	BLACK	SAUSAGE
	30	1386160	ALSPEC HYBRID PU x 480g CAT	GREY	CARTRIDGE
	31	1386128	ALSPEC HYBRID PU x 600ml SAU	GREY	SAUSAGE
	32	1386130	ALSPEC HYBRID PU x 480g CAT	WHITE	CARTRIDGE
ALSPEC WET AREA	33	1386129	ALSPEC HYBRID PU x 600ml SAU	WHITE	SAUSAGE
	34	1386137	ALSPEC WET AREA SILICONE x 310g CAT	ALMOND IVORY	CARTRIDGE
	35	1386139	ALSPEC WET AREA SILICONE x 310g CAT	BLACK	CARTRIDGE
	36	1386146	ALSPEC WET AREA SILICONE x 310g CAT	BLUESTONE	CARTRIDGE
	37	1386147	ALSPEC WET AREA SILICONE x 310g CAT	CHARCOAL	CARTRIDGE
	38	1386136	ALSPEC WET AREA SILICONE x 310g CAT	LIGHT GREY	CARTRIDGE
	39	1386148	ALSPEC WET AREA SILICONE x 310g CAT	MID GREY	CARTRIDGE
	40	1386149	ALSPEC WET AREA SILICONE x 310g CAT	OFF WHITE	CARTRIDGE
	41	1386150	ALSPEC WET AREA SILICONE x 310g CAT	PEWTER	CARTRIDGE
	42	1386151	ALSPEC WET AREA SILICONE x 310g CAT	STONE BEIGE	CARTRIDGE
	43	1386154	ALSPEC WET AREA SILICONE x 310g CAT	TAUPE	CARTRIDGE
	44	1386152	ALSPEC WET AREA SILICONE x 310g CAT	TILE GREY	CARTRIDGE
	45	1386133	ALSPEC WET AREA SILICONE x 310g CAT	TRANSLUCENT	CARTRIDGE
	46	1386153	ALSPEC WET AREA SILICONE x 310g CAT	TRAVERTINE	CARTRIDGE
	47	1386134	ALSPEC WET AREA SILICONE x 310g CAT	WHITE	CARTRIDGE



8. Typical Details

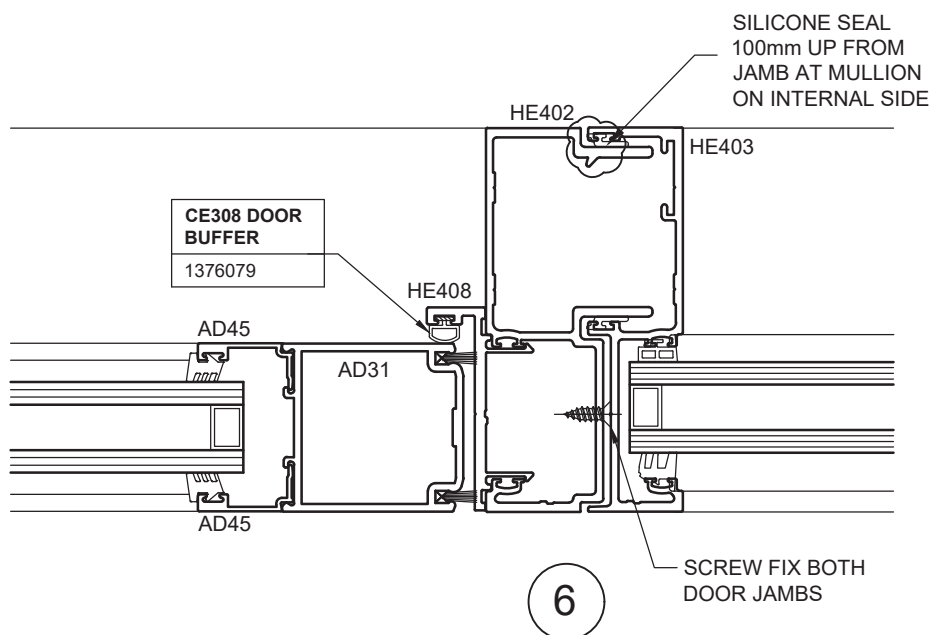
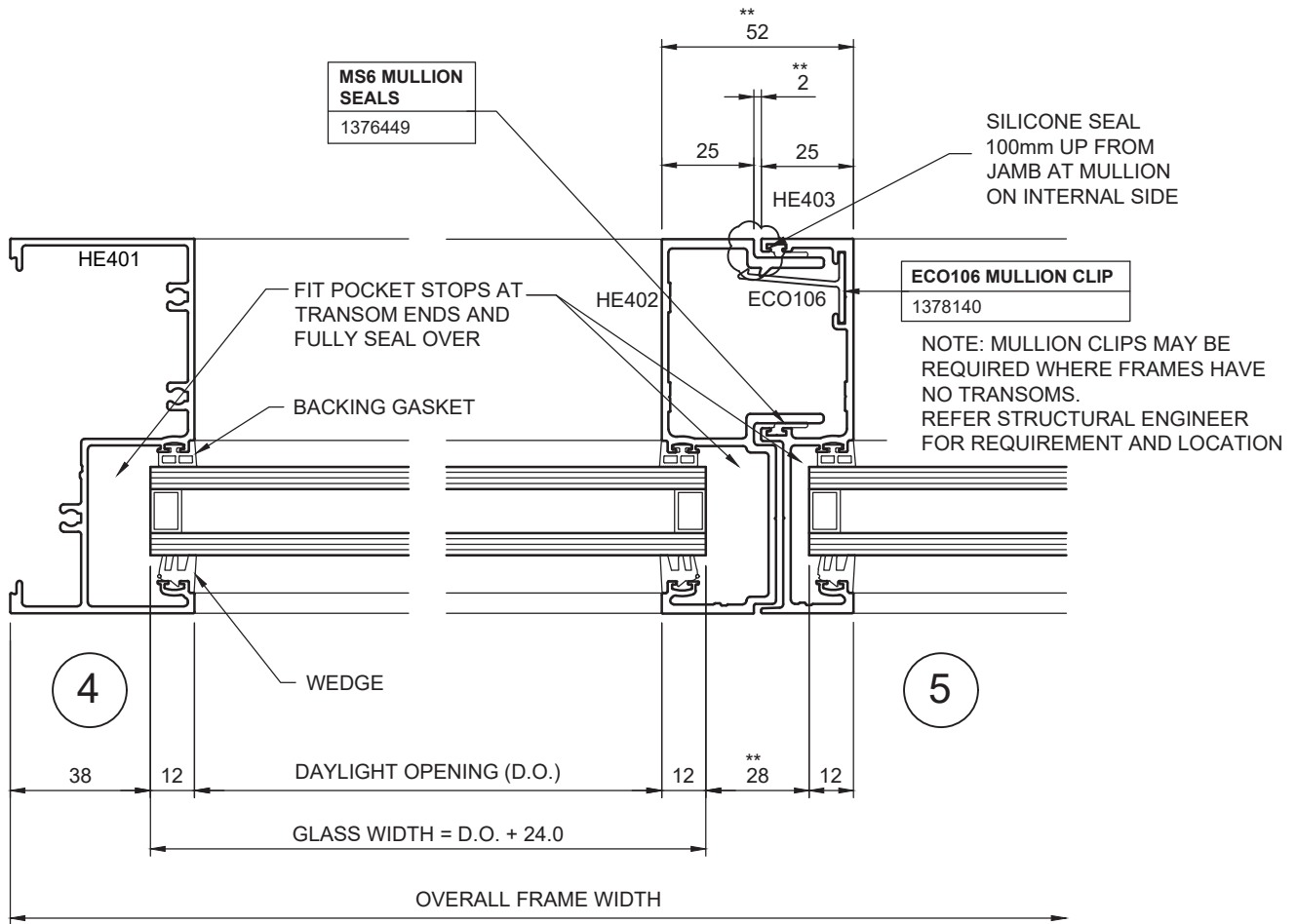
Typical Head, Transom and Sill Details



8. Typical Details

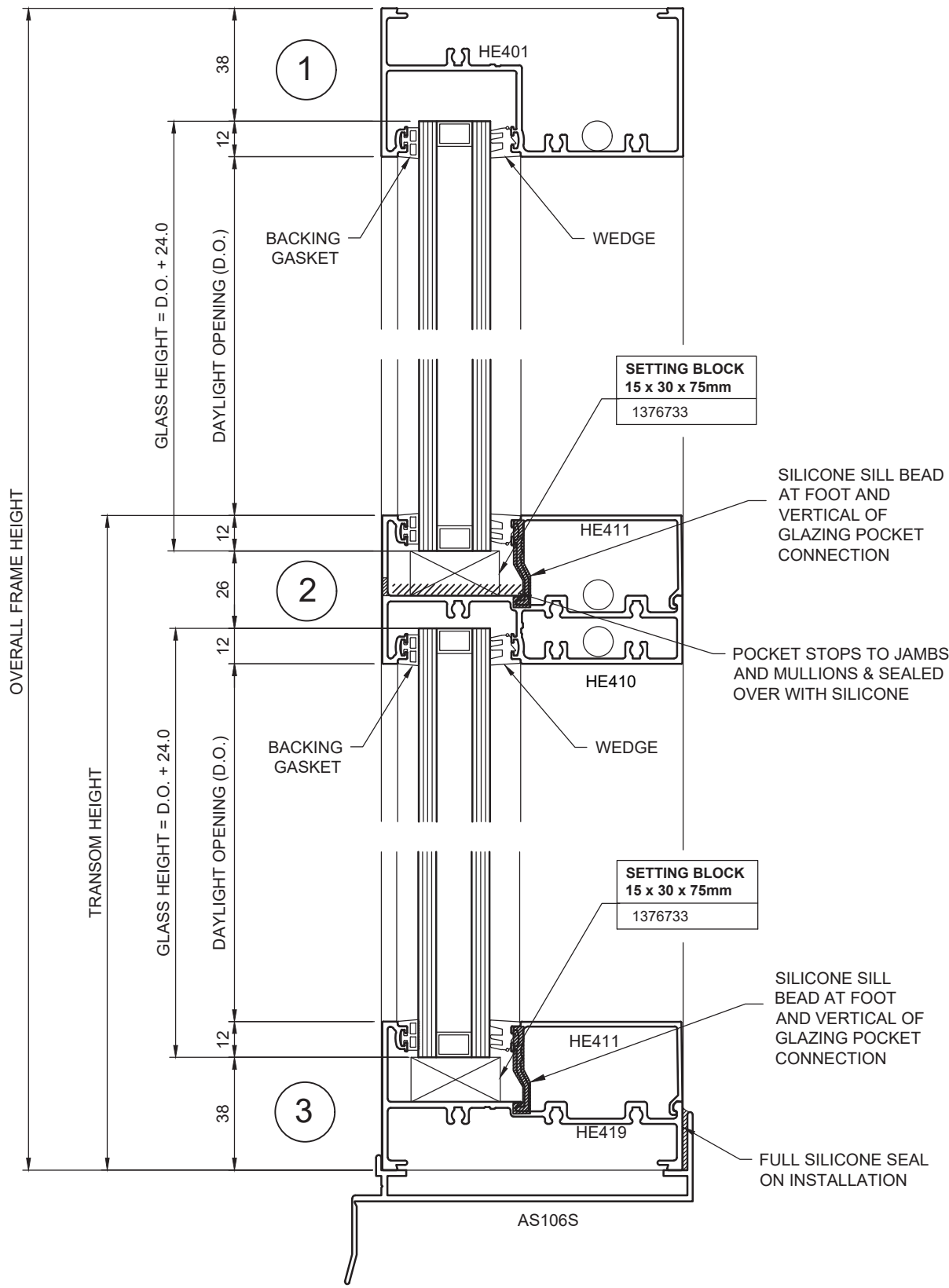
Typical Jamb/ Mullion Details

** NOMINAL DIMENSIONS ONLY. MAY VARY DUE TO PROJECT REQUIREMENTS



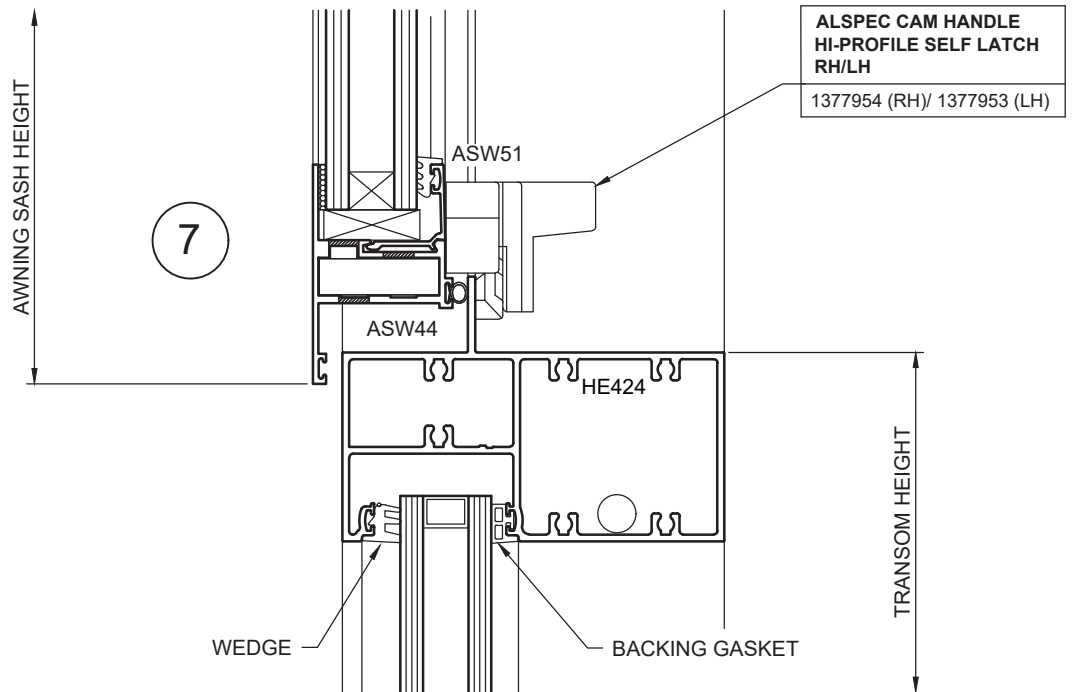
8. Typical Details

Typical Head, Transom and Sill Details - Internal Glaze

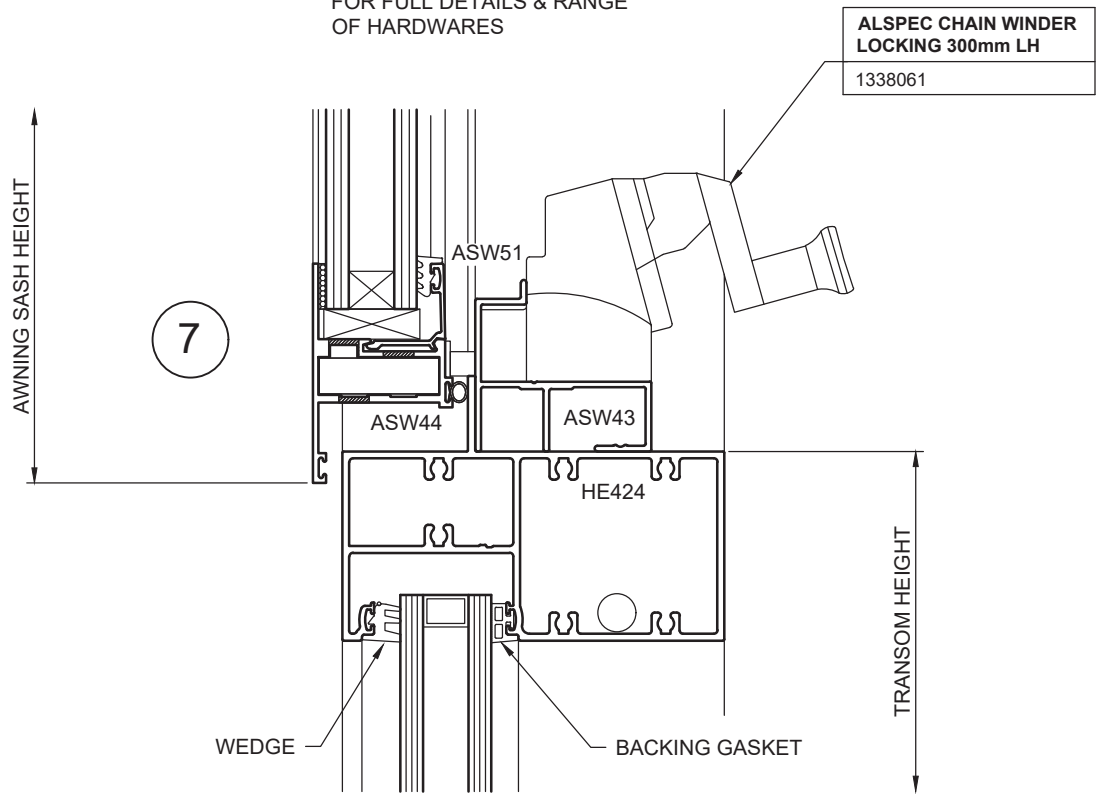


8. Typical Details

Typical Transom Details - 35mm Awning / Fixed

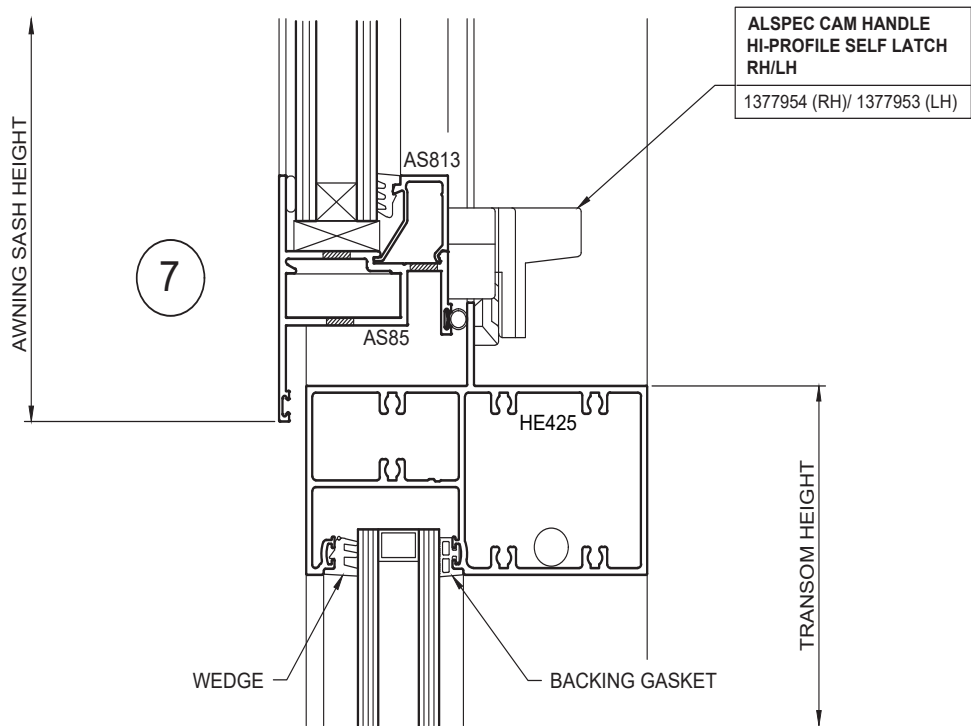


NOTE:
REFER TO AWNING/
CASEMENT TECH MANUALS
FOR FULL DETAILS & RANGE
OF HARDWARES

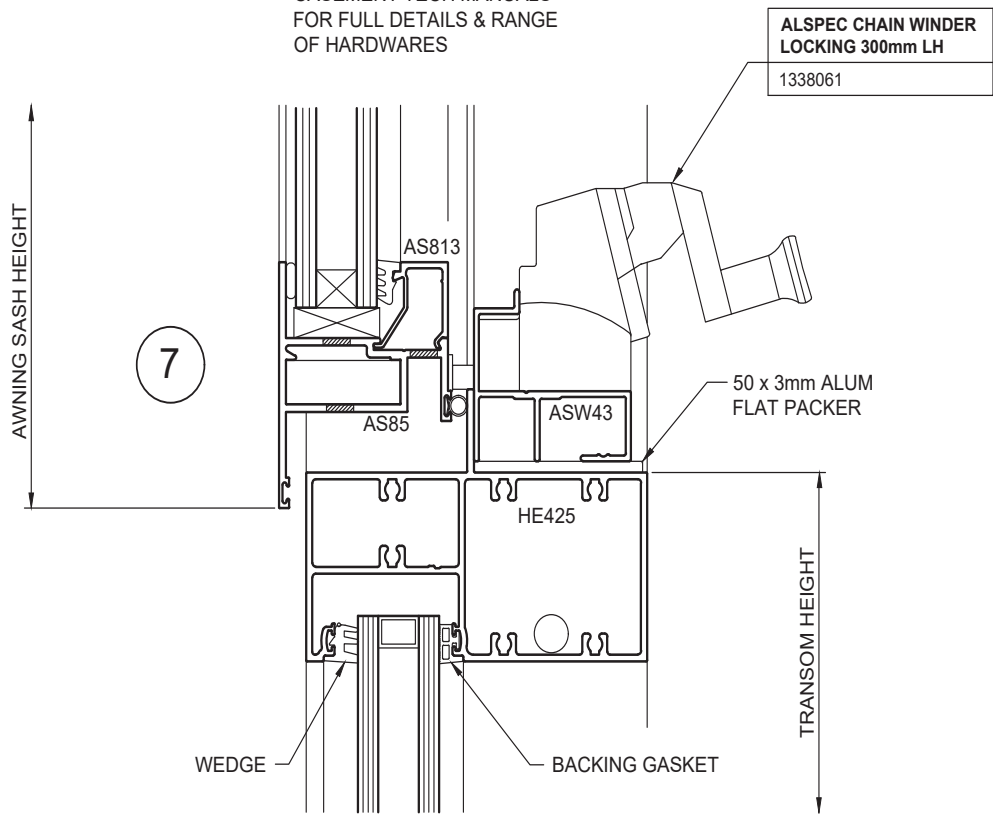


8. Typical Details

Typical Transom Details - 50mm Awning / Fixed



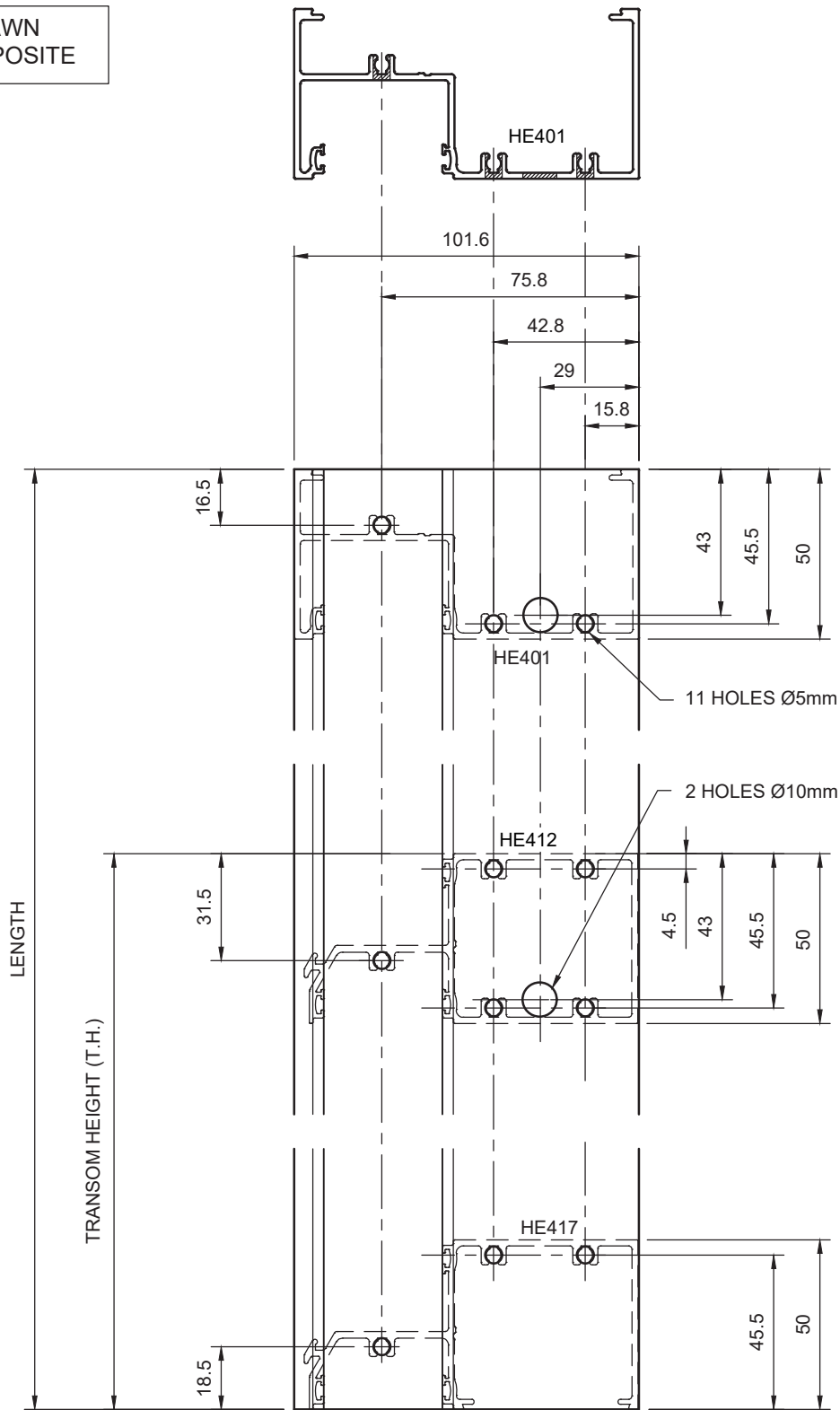
NOTE:
REFER TO AWNING/
CASEMENT TECH MANUALS
FOR FULL DETAILS & RANGE
OF HARDWARES



10. Manufacturing Details

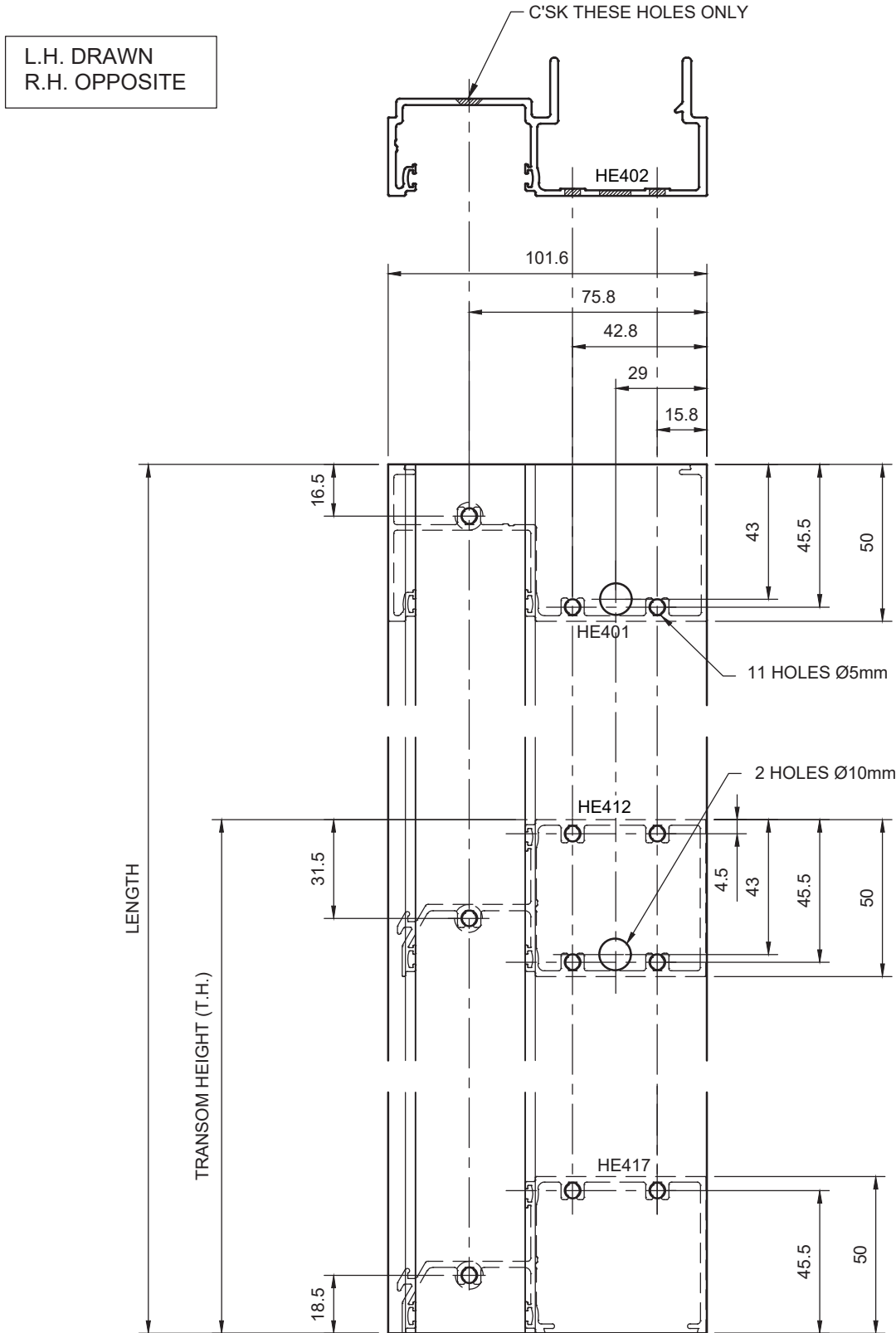
Frame Preparation - External Glaze

L.H. DRAWN
R.H. OPPOSITE



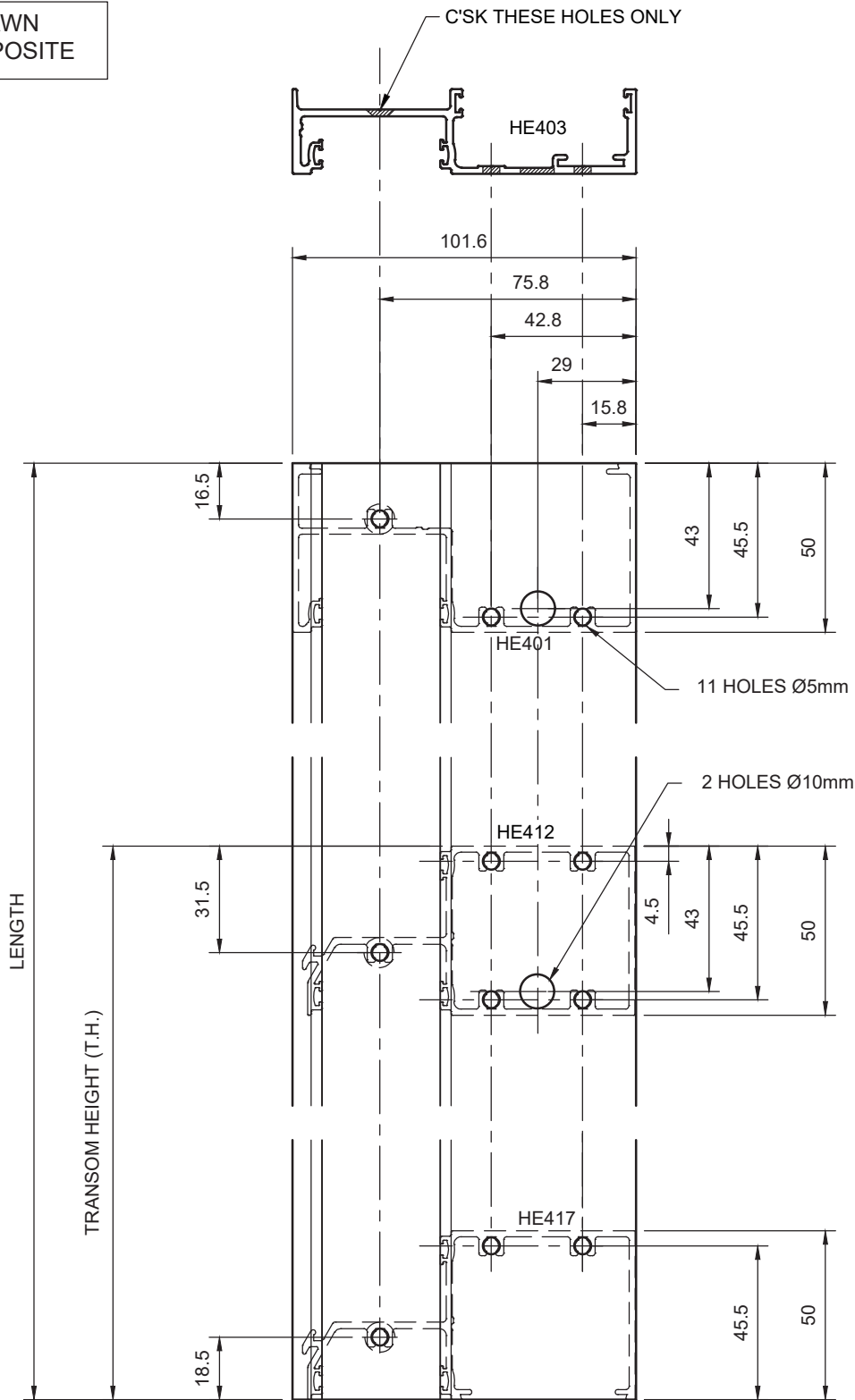
10. Manufacturing Details

Frame Preparation - External Glaze



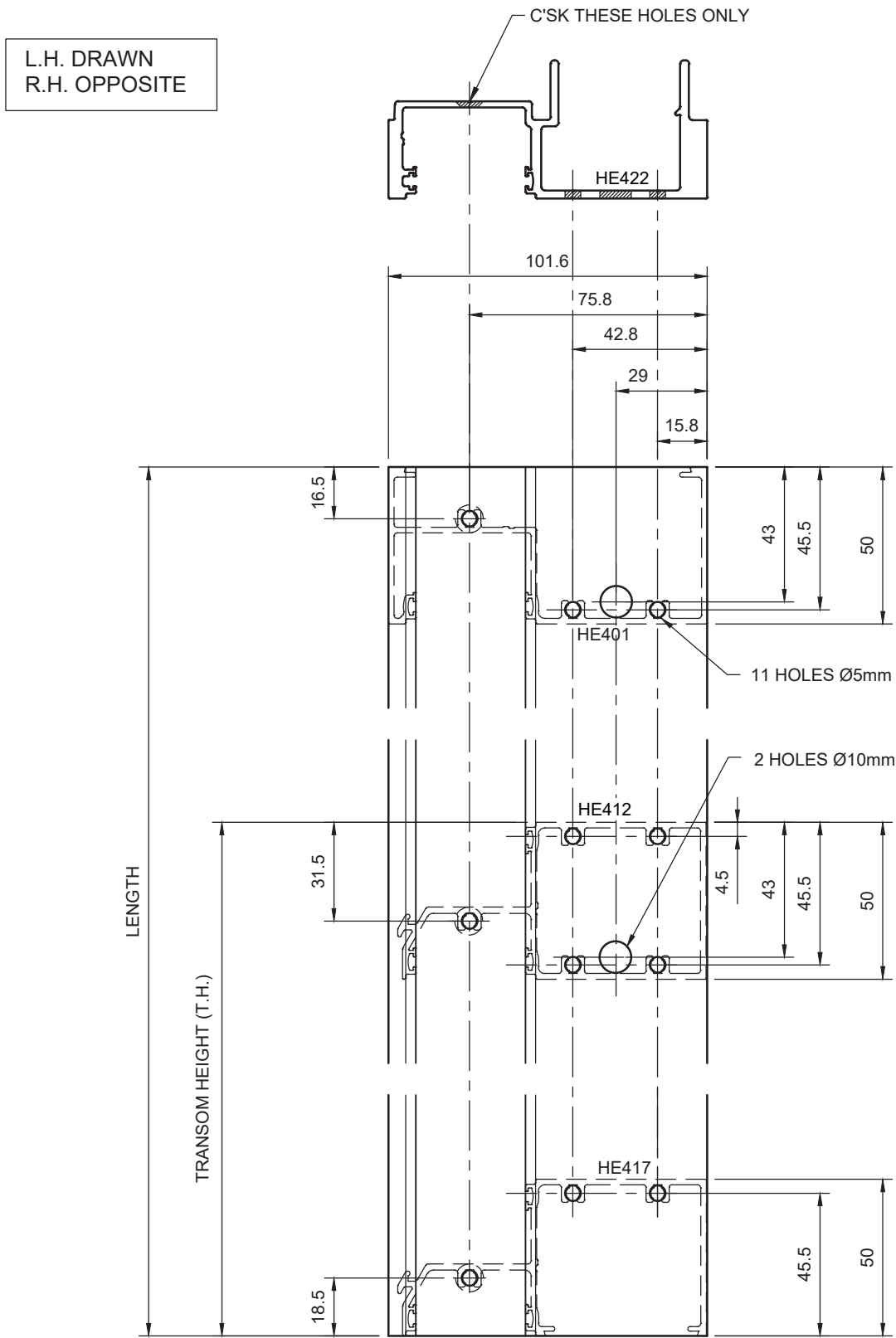
Frame Preparation - External Glaze

L.H. DRAWN
R.H. OPPOSITE



10. Manufacturing Details

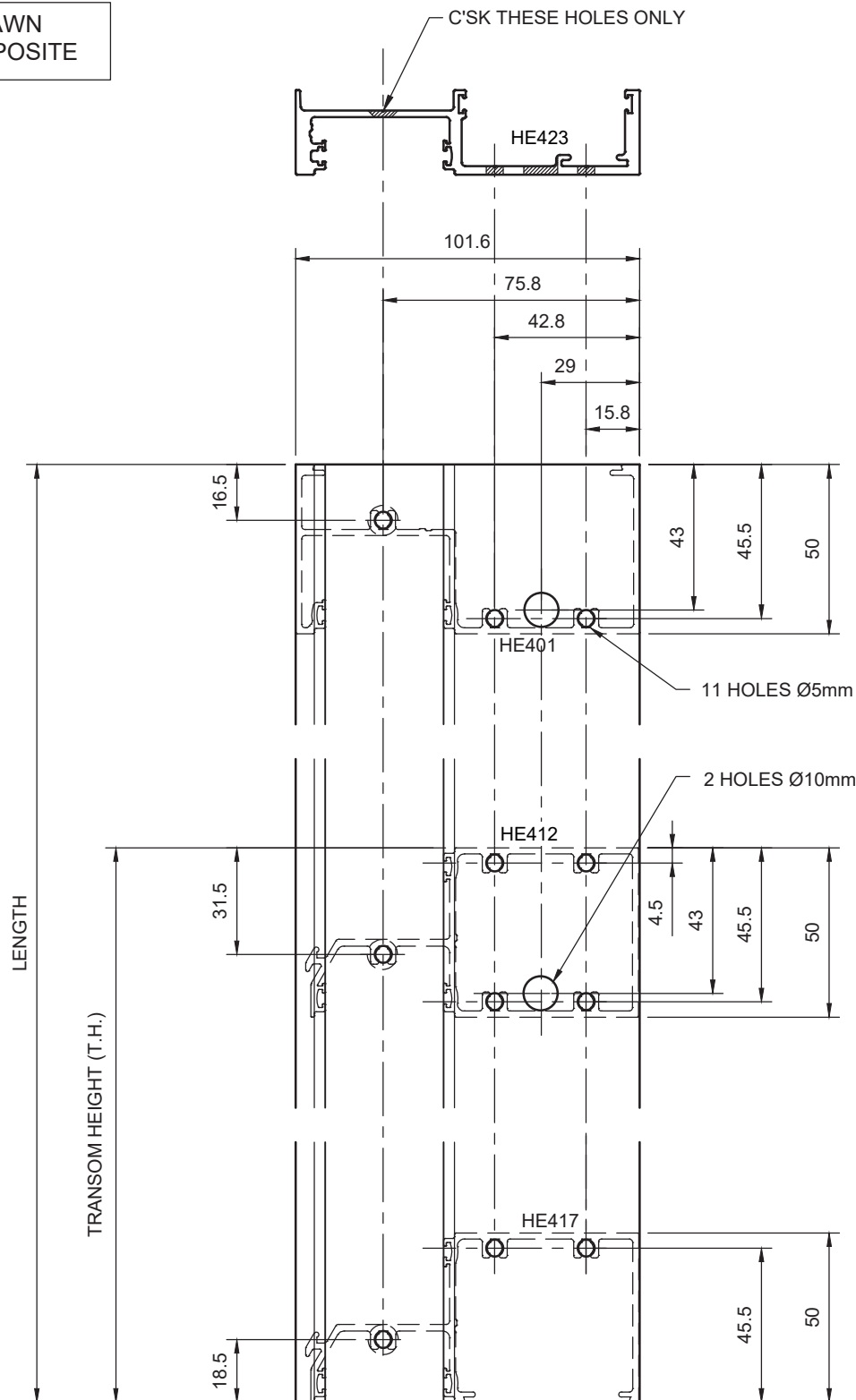
Frame Preparation - External Glaze



10. Manufacturing Details

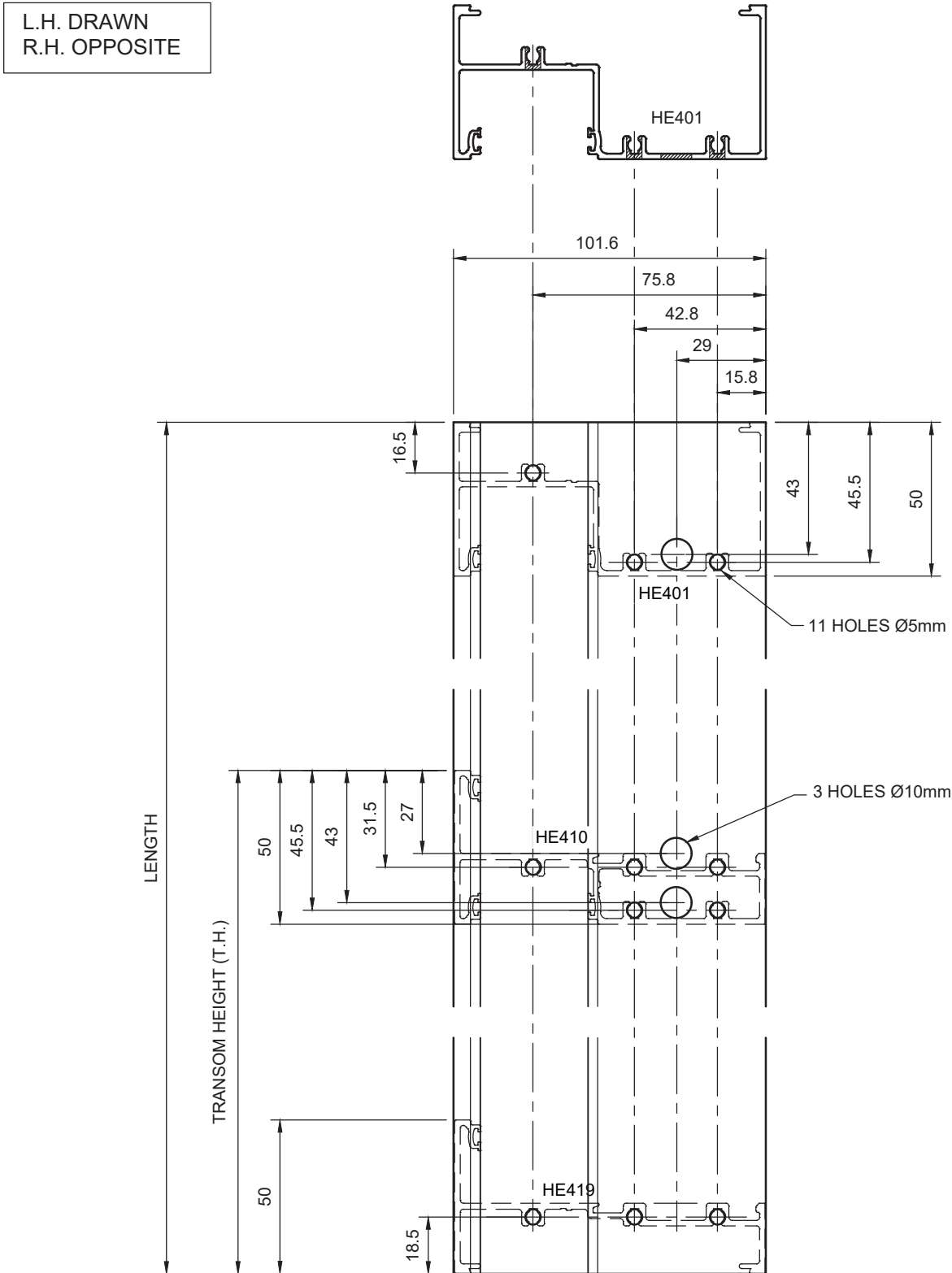
Frame Preparation - External Glaze

L.H. DRAWN
R.H. OPPOSITE



10. Manufacturing Details

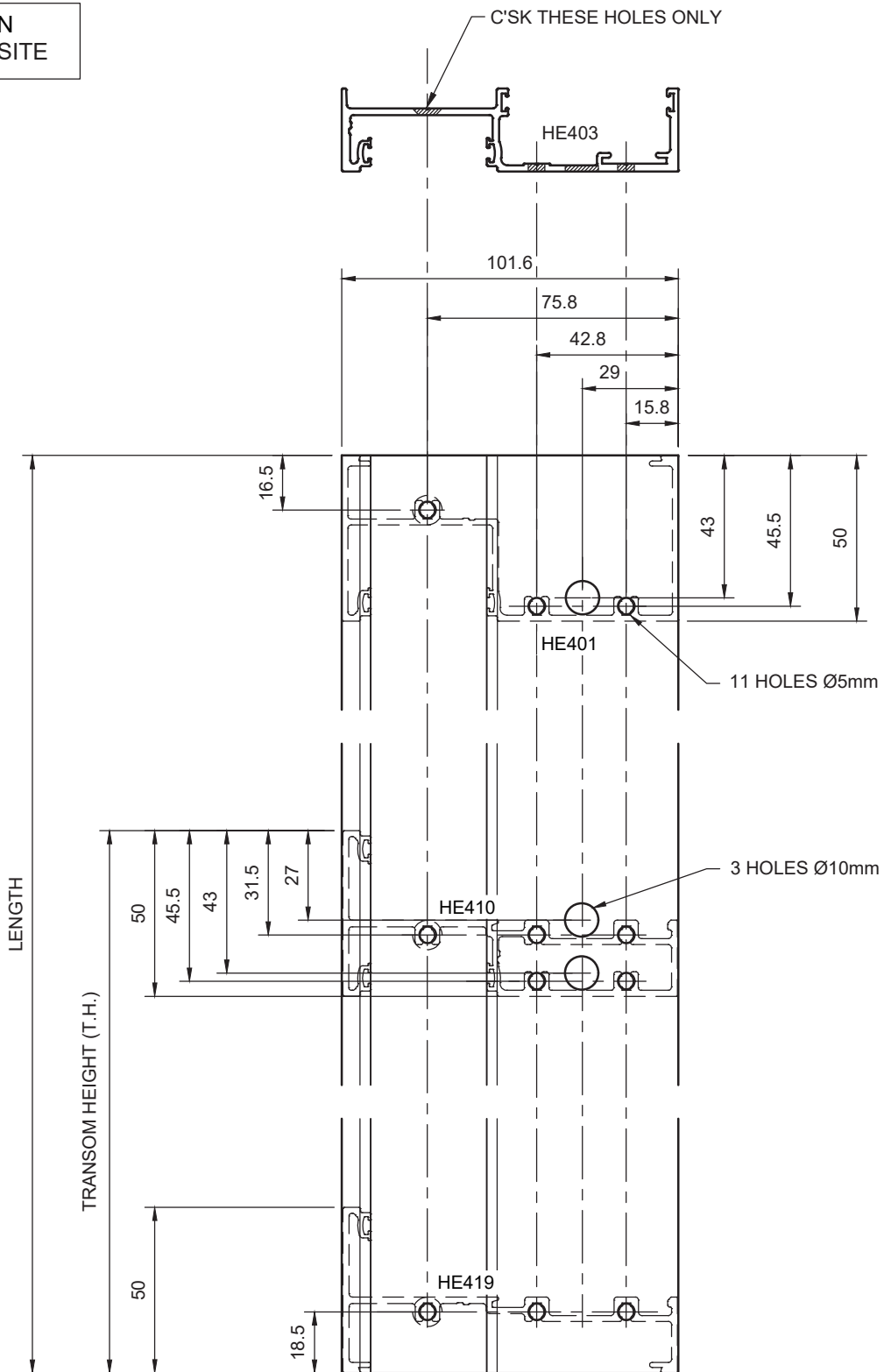
Frame Preparation - Internal Glaze



10. Manufacturing Details

Frame Preparation - Internal Glaze

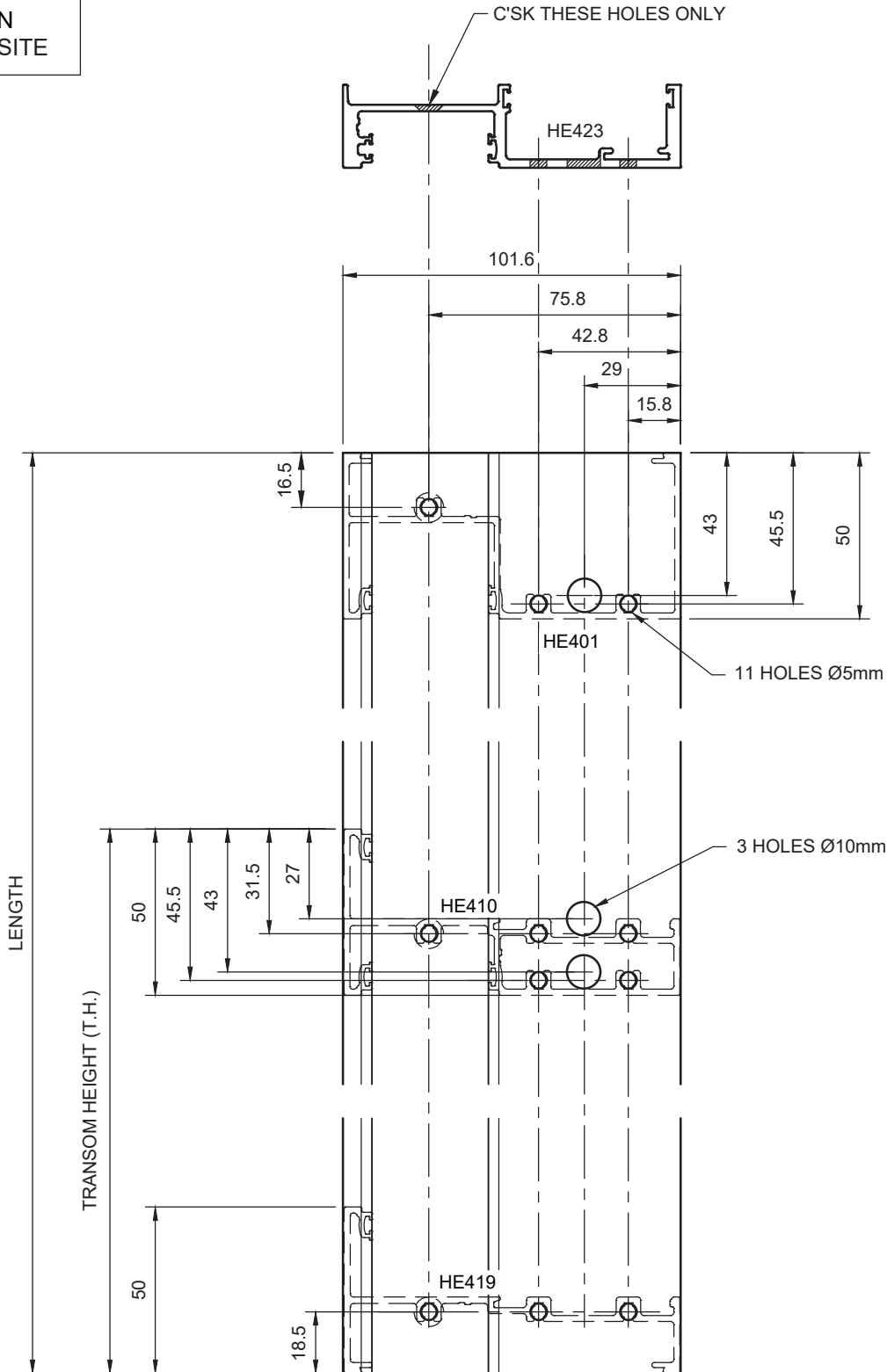
L.H. DRAWN
R.H. OPPOSITE



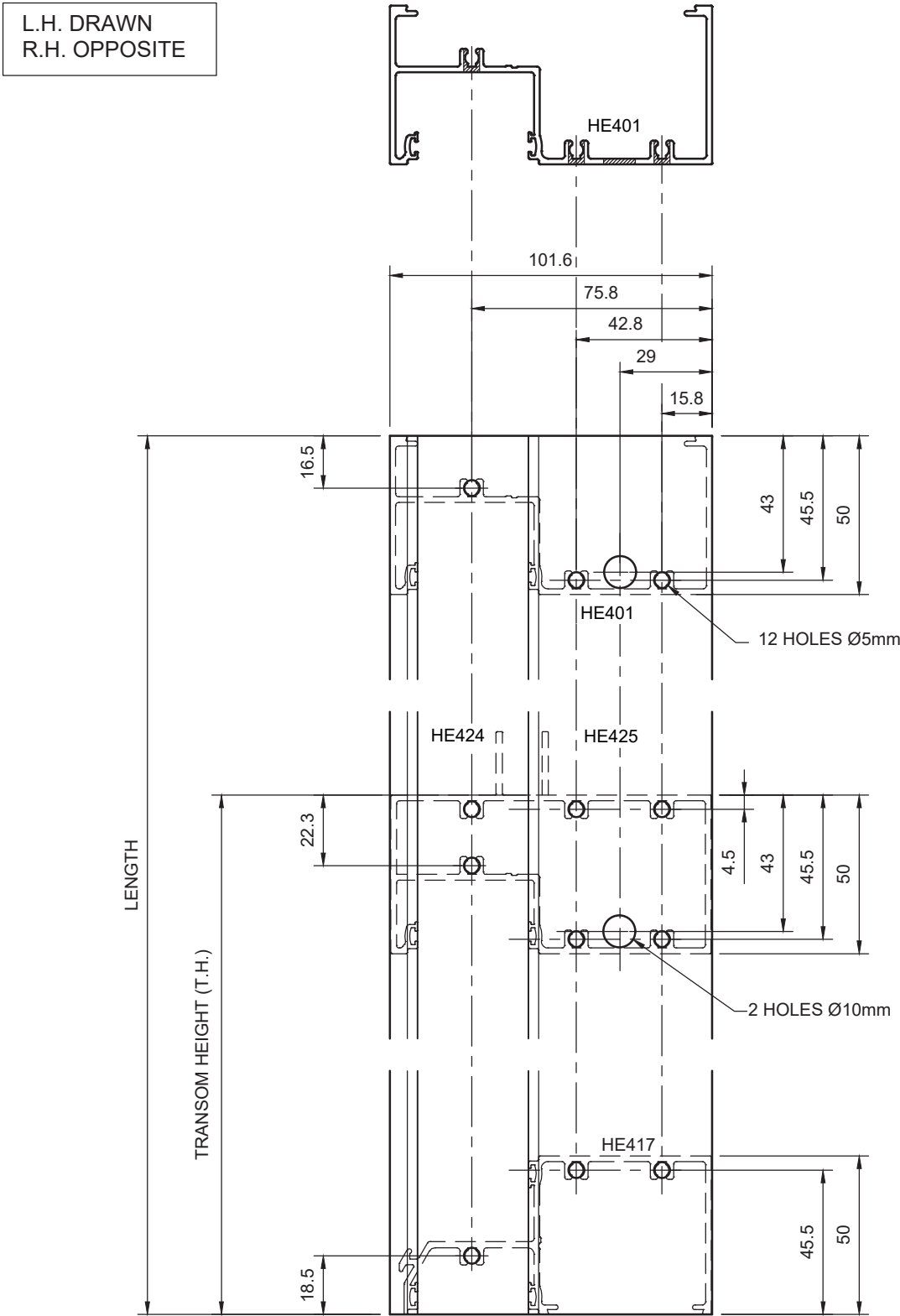
10. Manufacturing Details

Frame Preparation - Internal Glaze

L.H. DRAWN
R.H. OPPOSITE



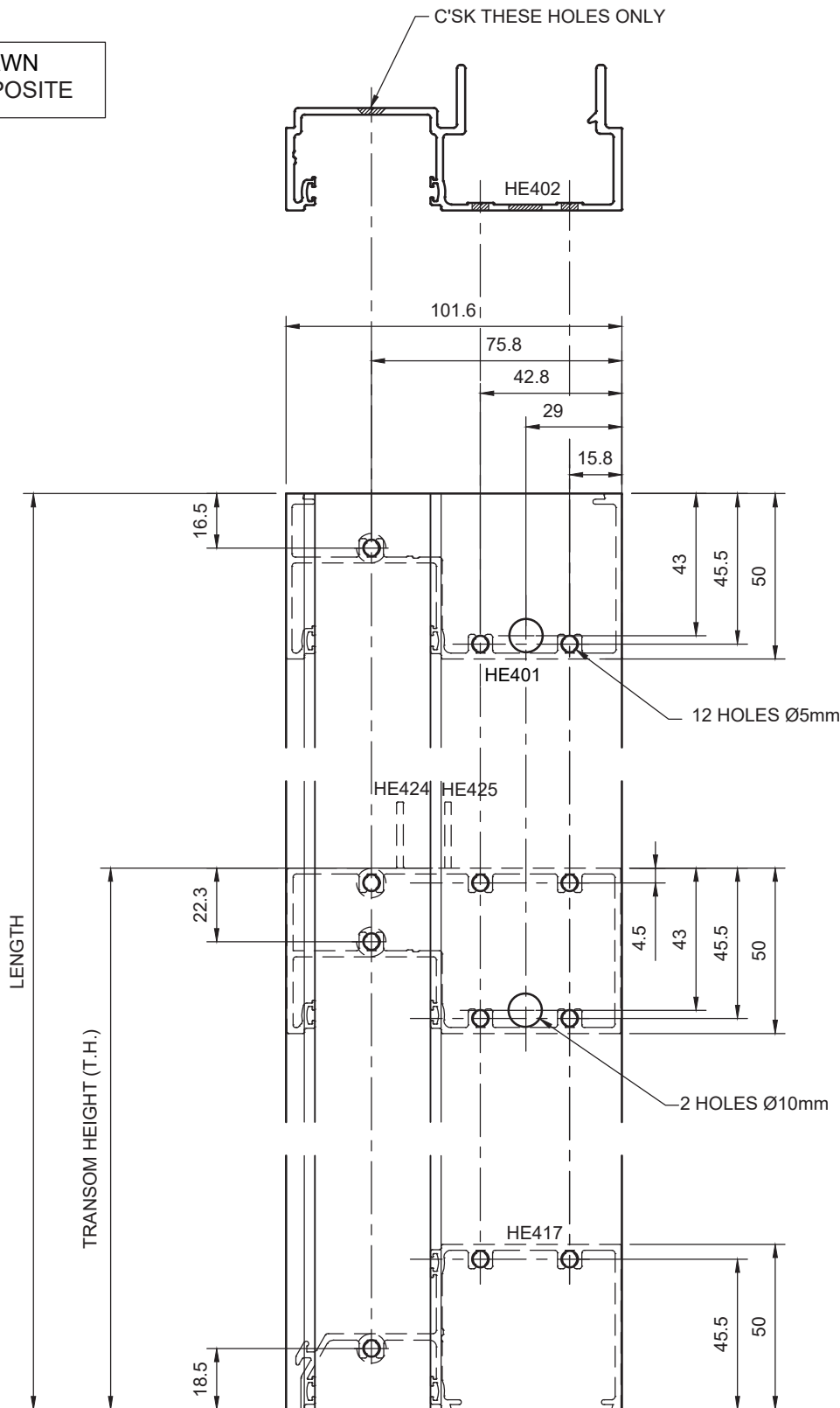
Frame Preparation - External Glaze with Awning and Lowlite



10. Manufacturing Details

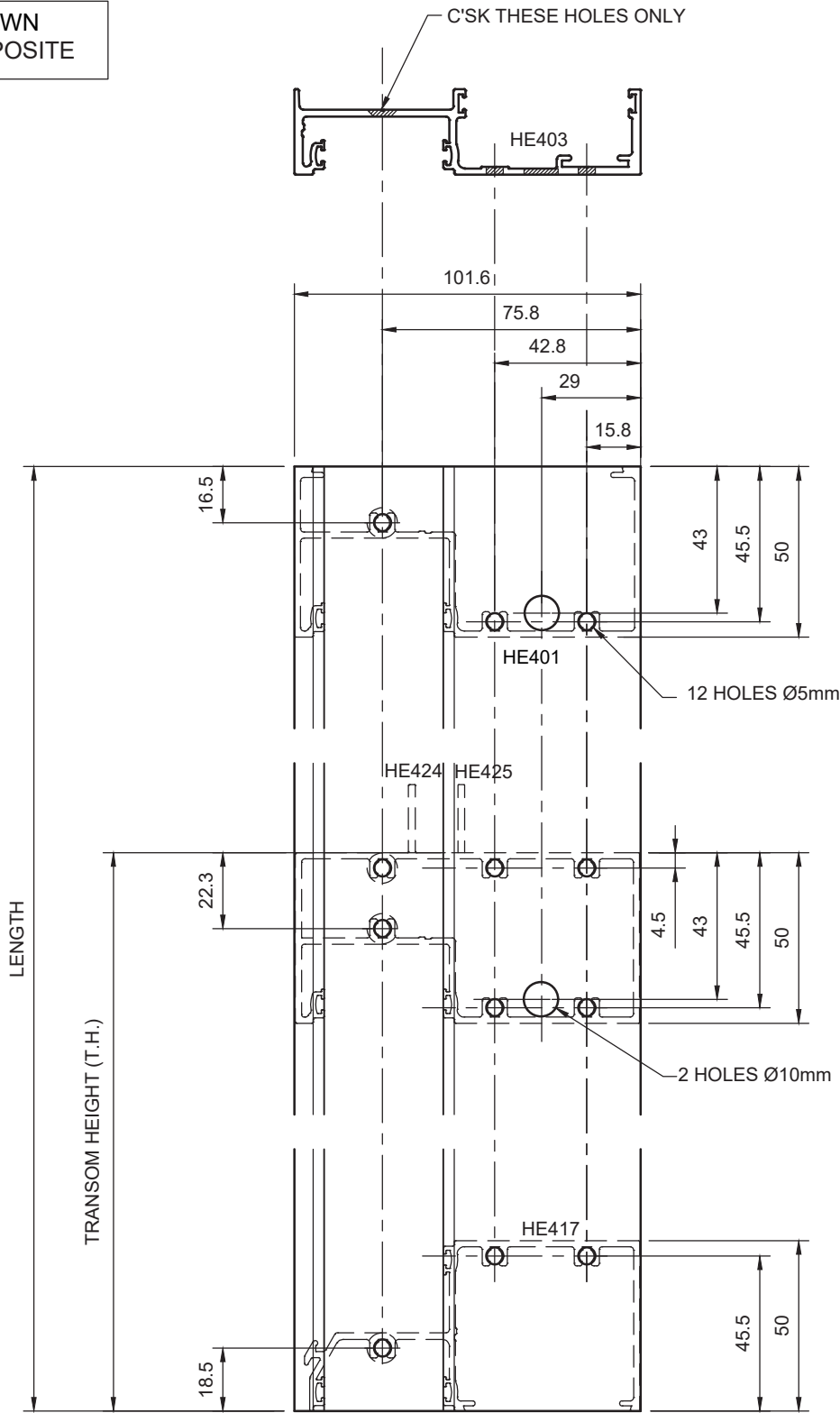
Frame Preparation - External Glaze with Awning and Lowlite

L.H. DRAWN
R.H. OPPOSITE



Frame Preparation - External Glaze with Awning and Lowlite

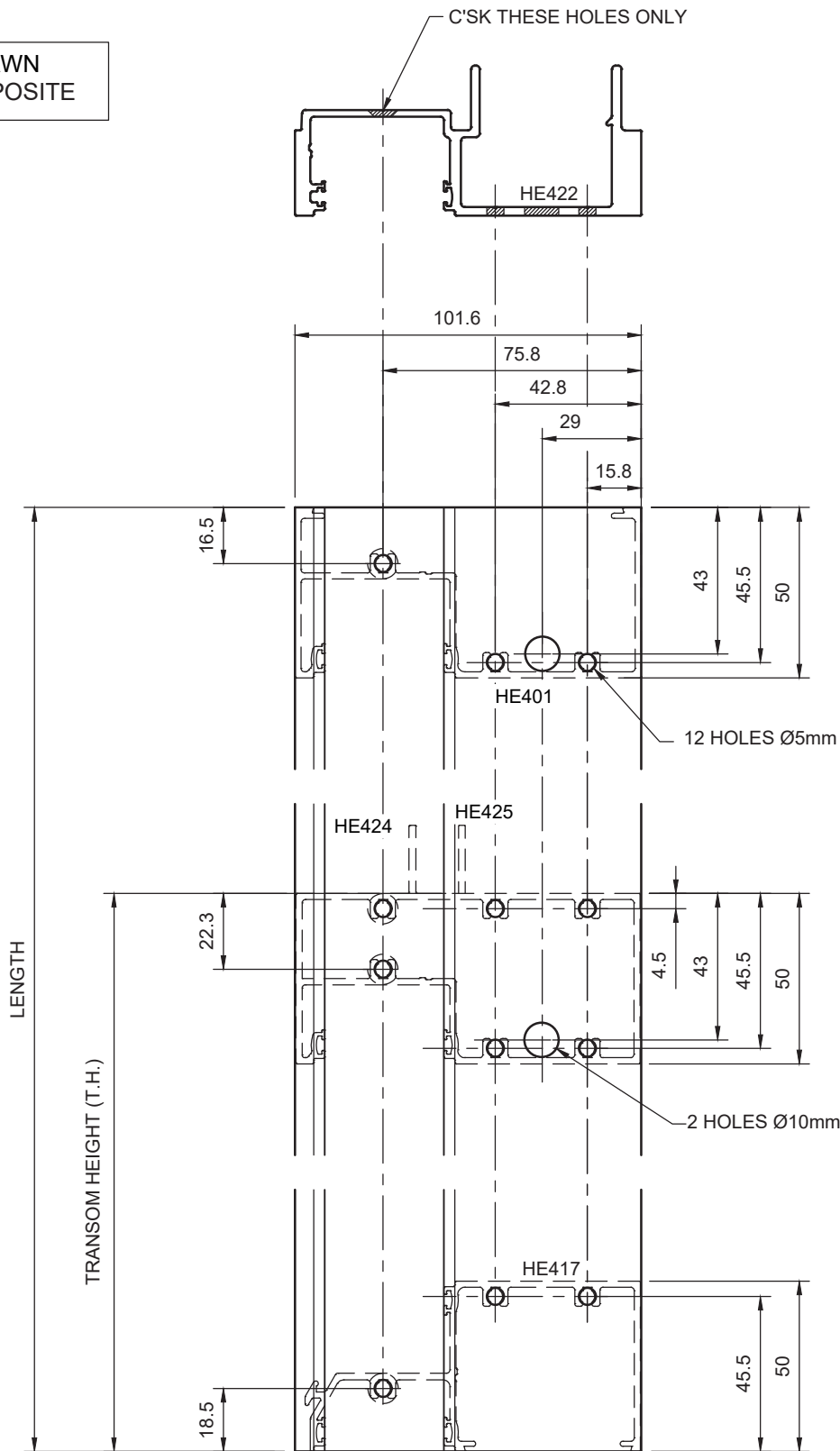
L.H. DRAWN
R.H. OPPOSITE



10. Manufacturing Details

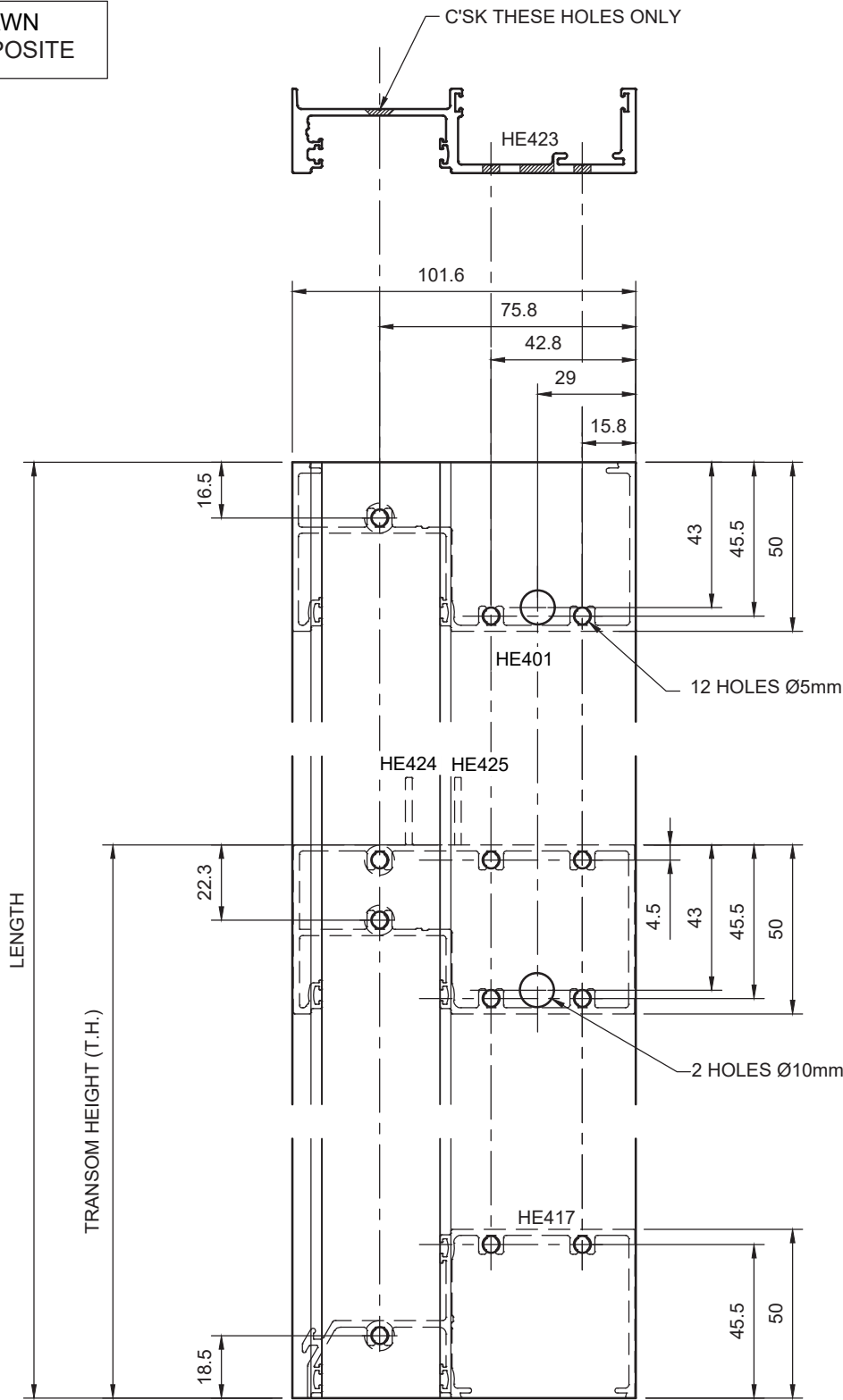
Frame Preparation - External Glaze with Awning and Lowlite

L.H. DRAWN
R.H. OPPOSITE



Frame Preparation - External Glaze with Awning and Lowlite

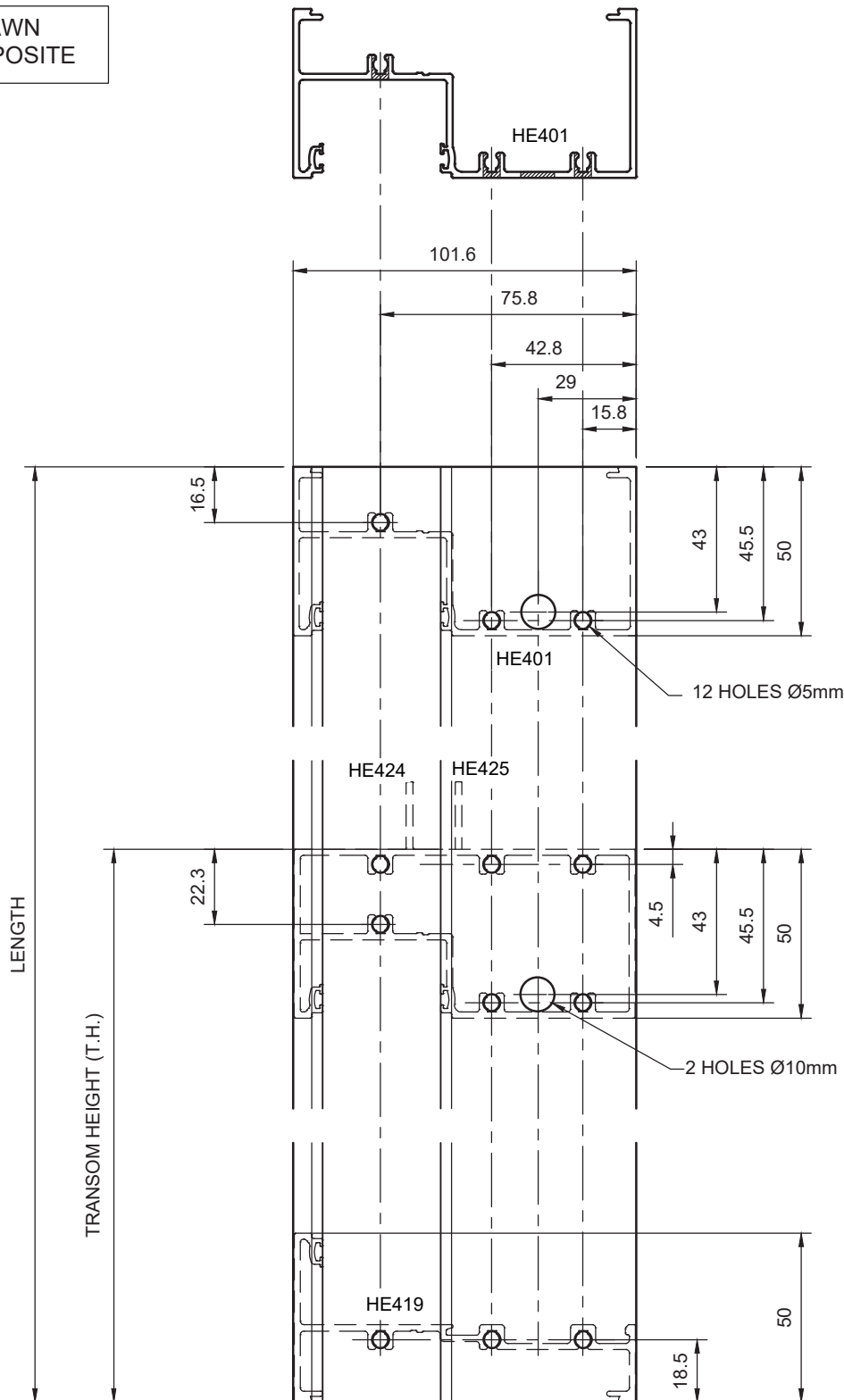
L.H. DRAWN
R.H. OPPOSITE



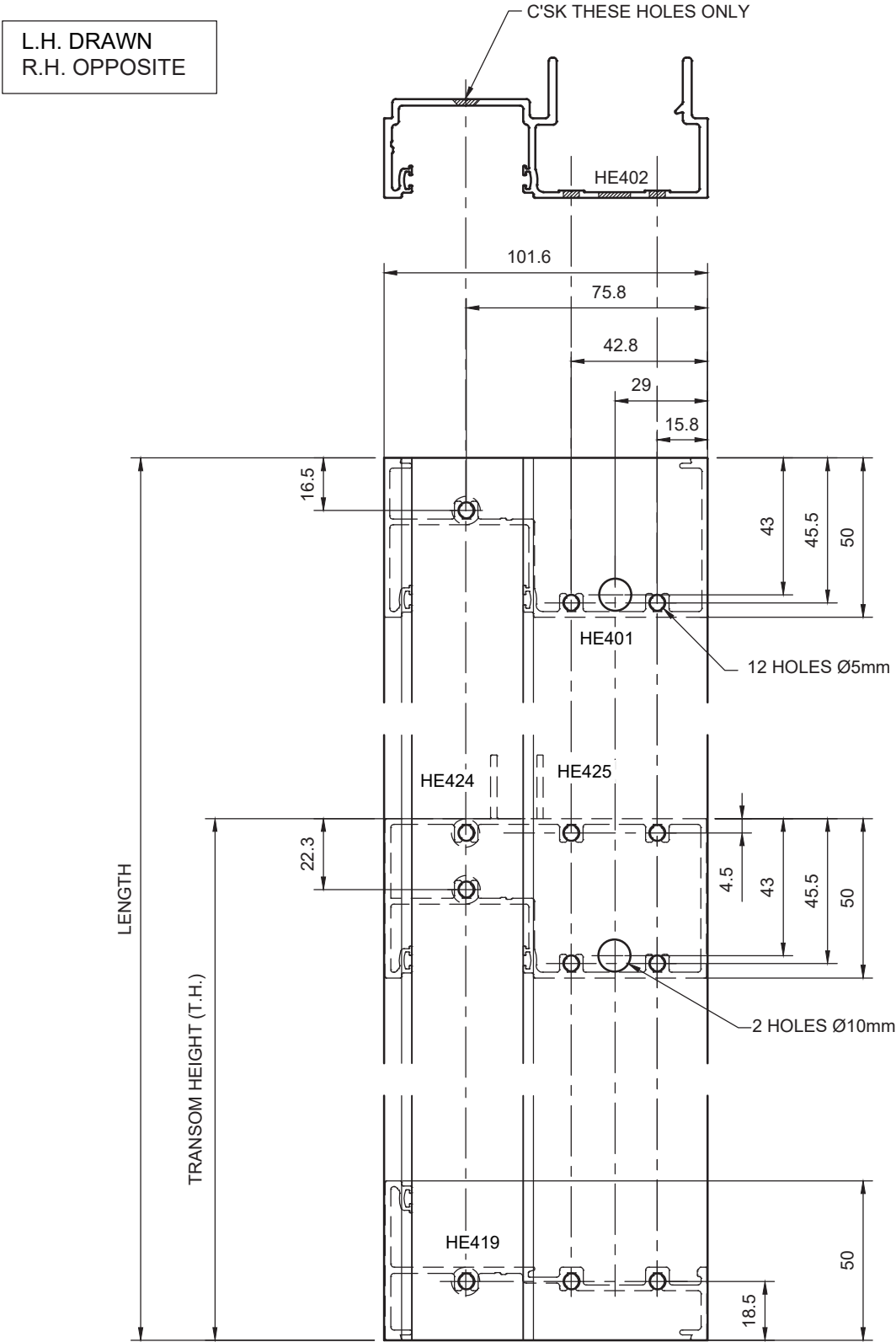
10. Manufacturing Details

Frame Preparation - Internal Glaze with Awning and Lowlite

L.H. DRAWN
R.H. OPPOSITE



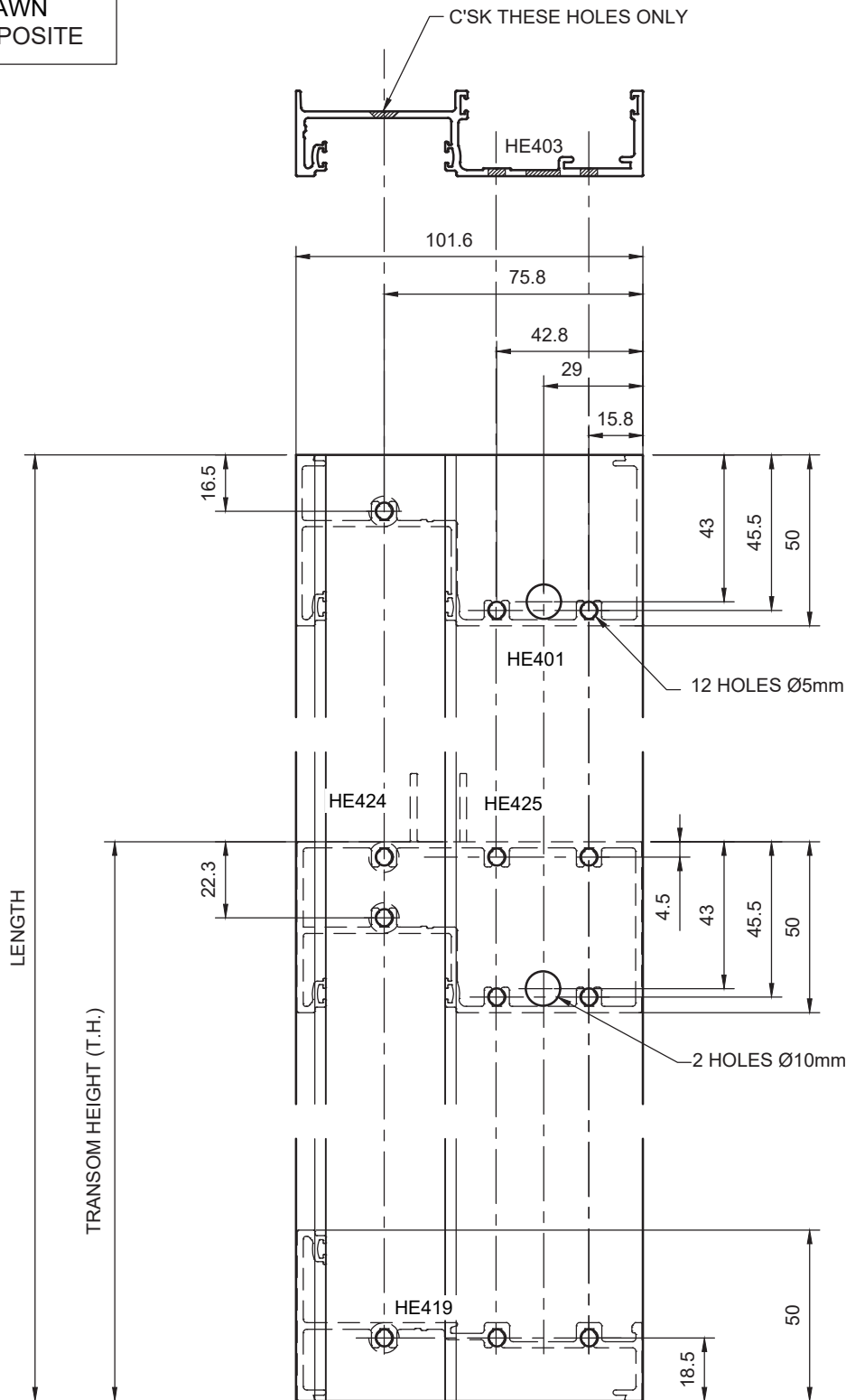
Frame Preparation - Internal Glaze with Awning and Lowlite



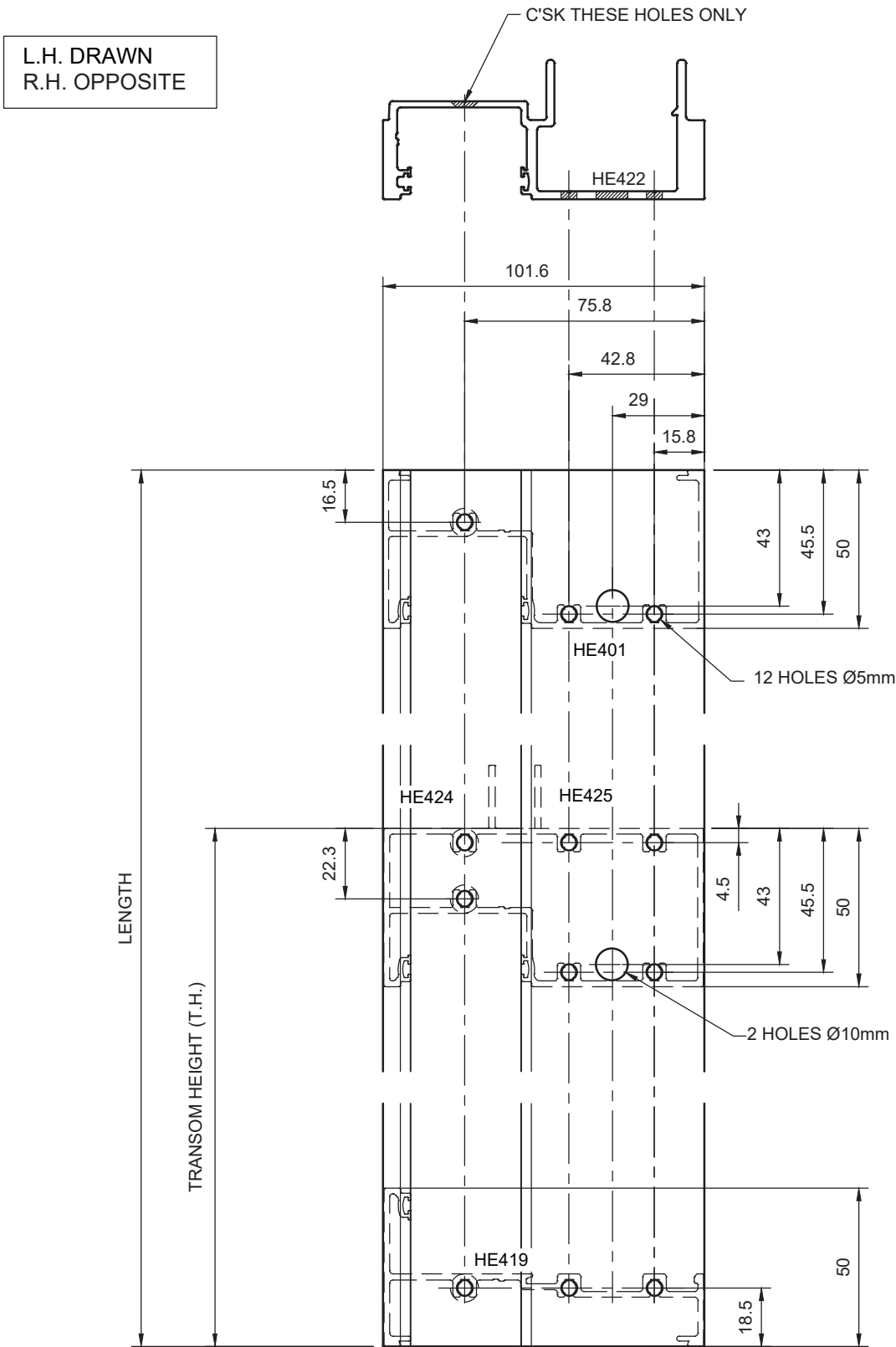
10. Manufacturing Details

Frame Preparation - Internal Glaze with Awning and Lowlite

L.H. DRAWN
R.H. OPPOSITE

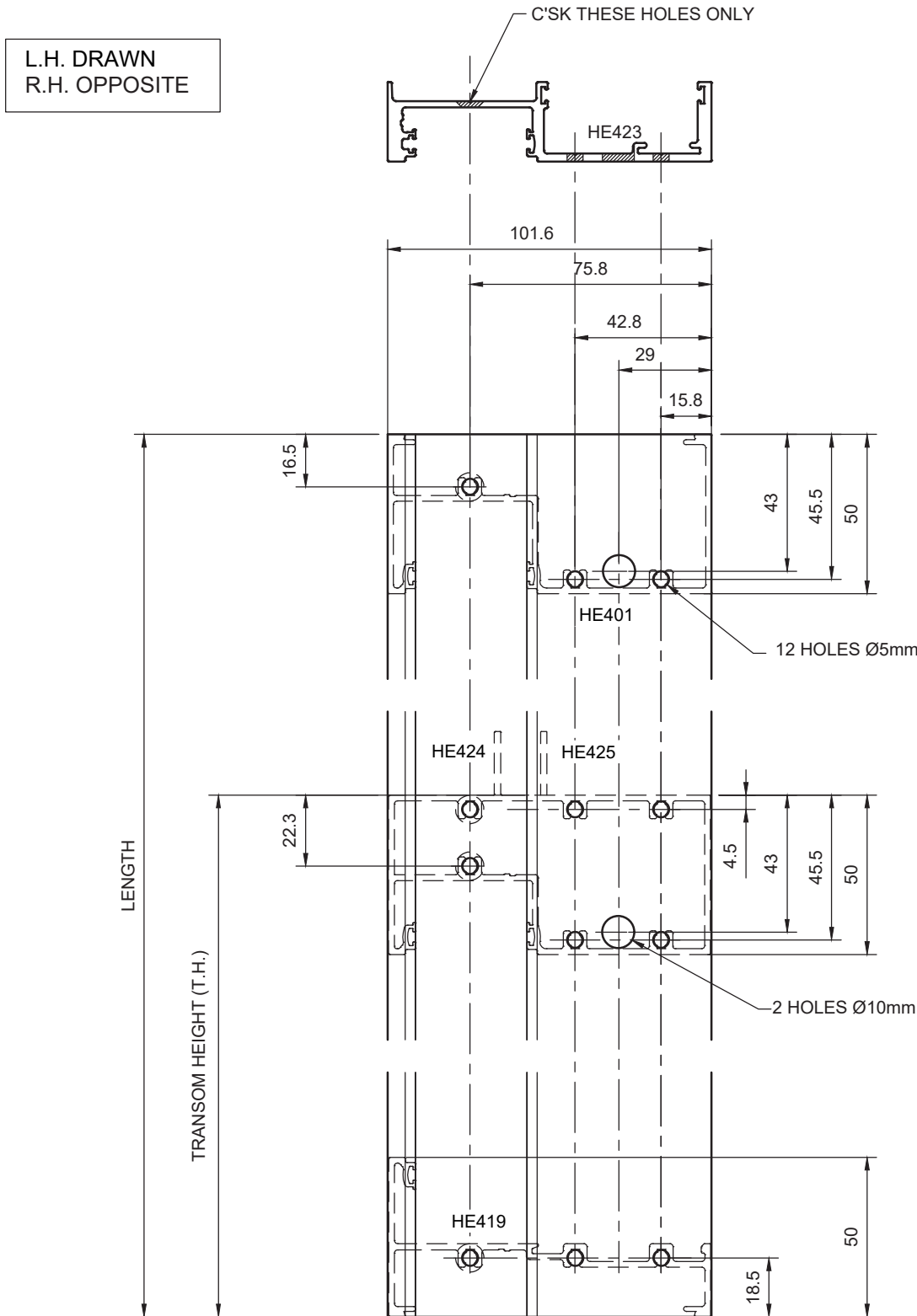


Frame Preparation - Internal Glaze with Awning and Lowlite



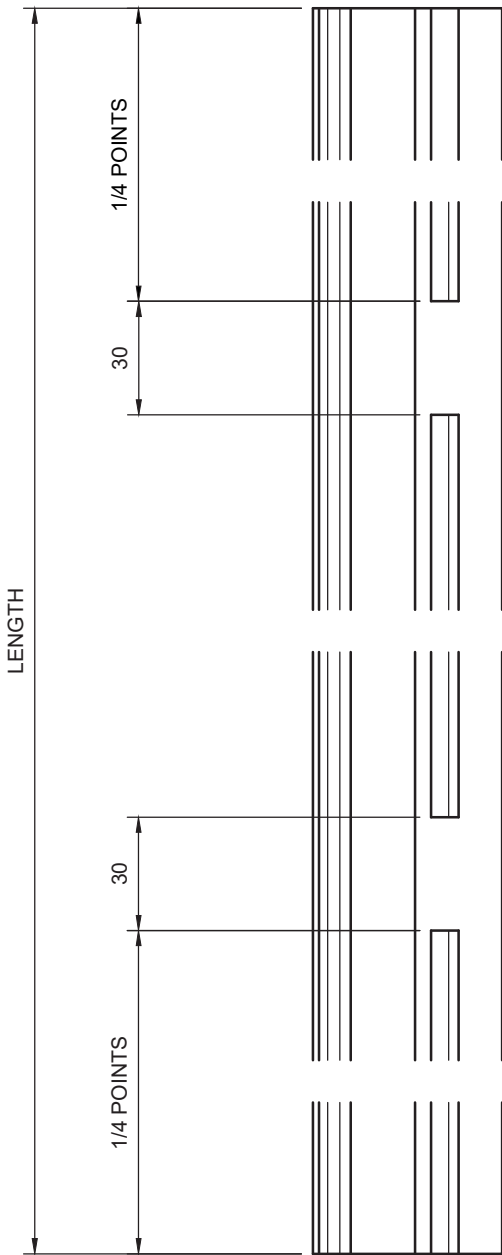
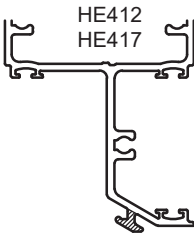
10. Manufacturing Details

Frame Preparation - Internal Glaze with Awning and Lowlite



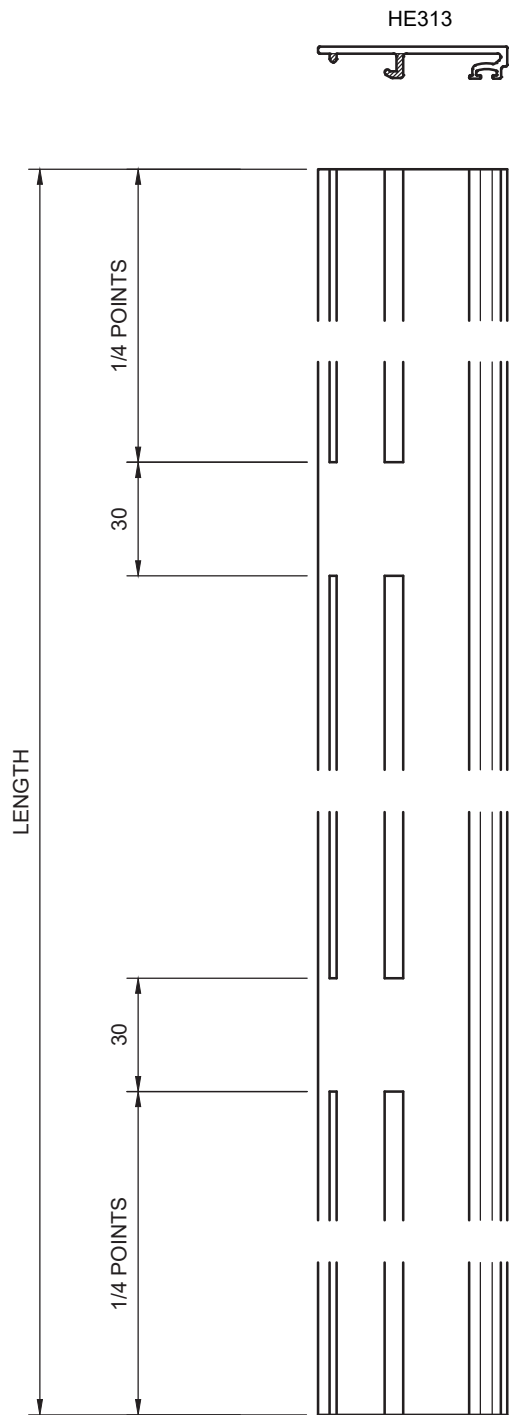
10. Manufacturing Details

Drainage Preparation - External Glaze Transom

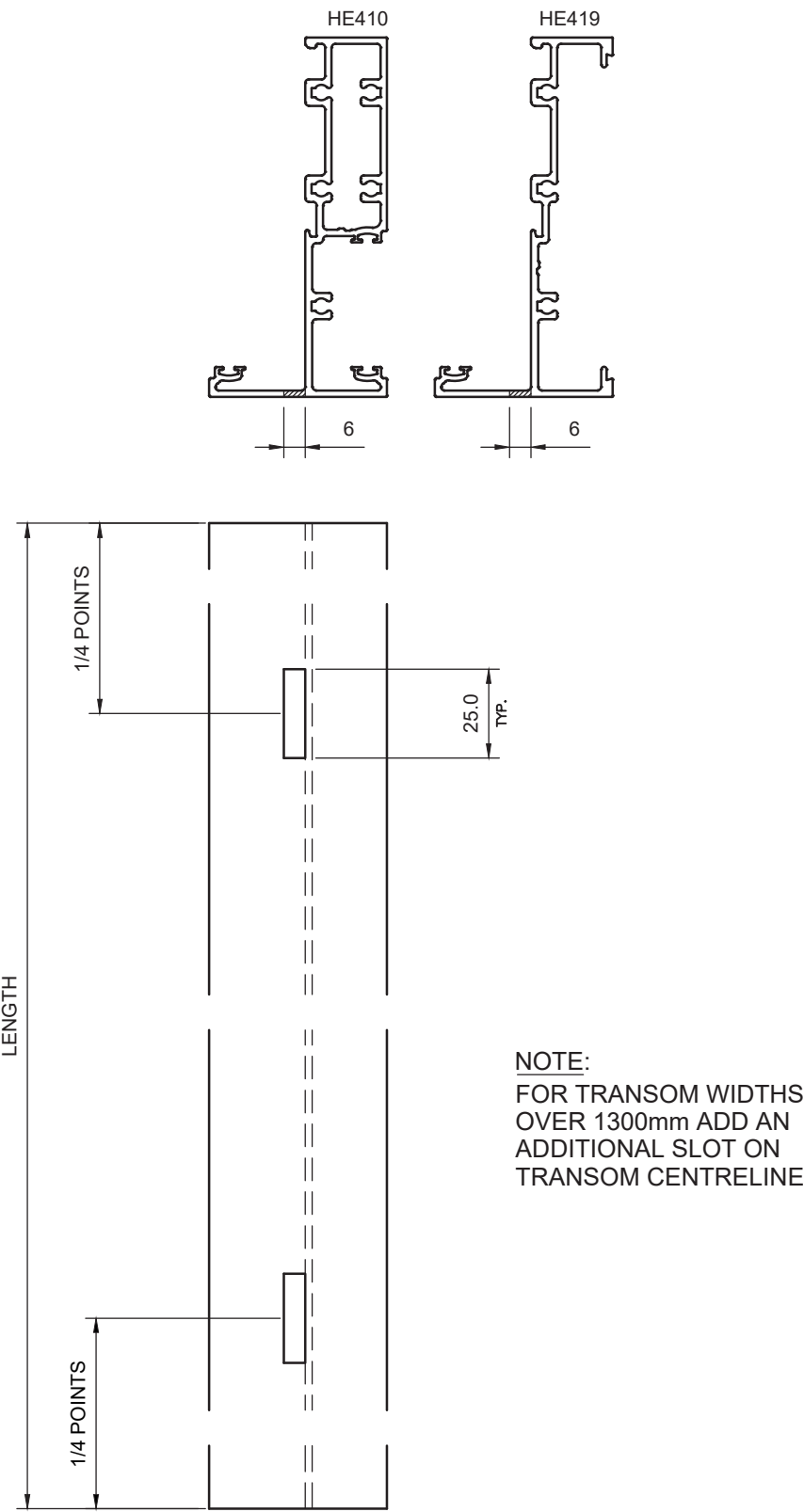


10. Manufacturing Details

Drainage Preparation - External Glaze Bead



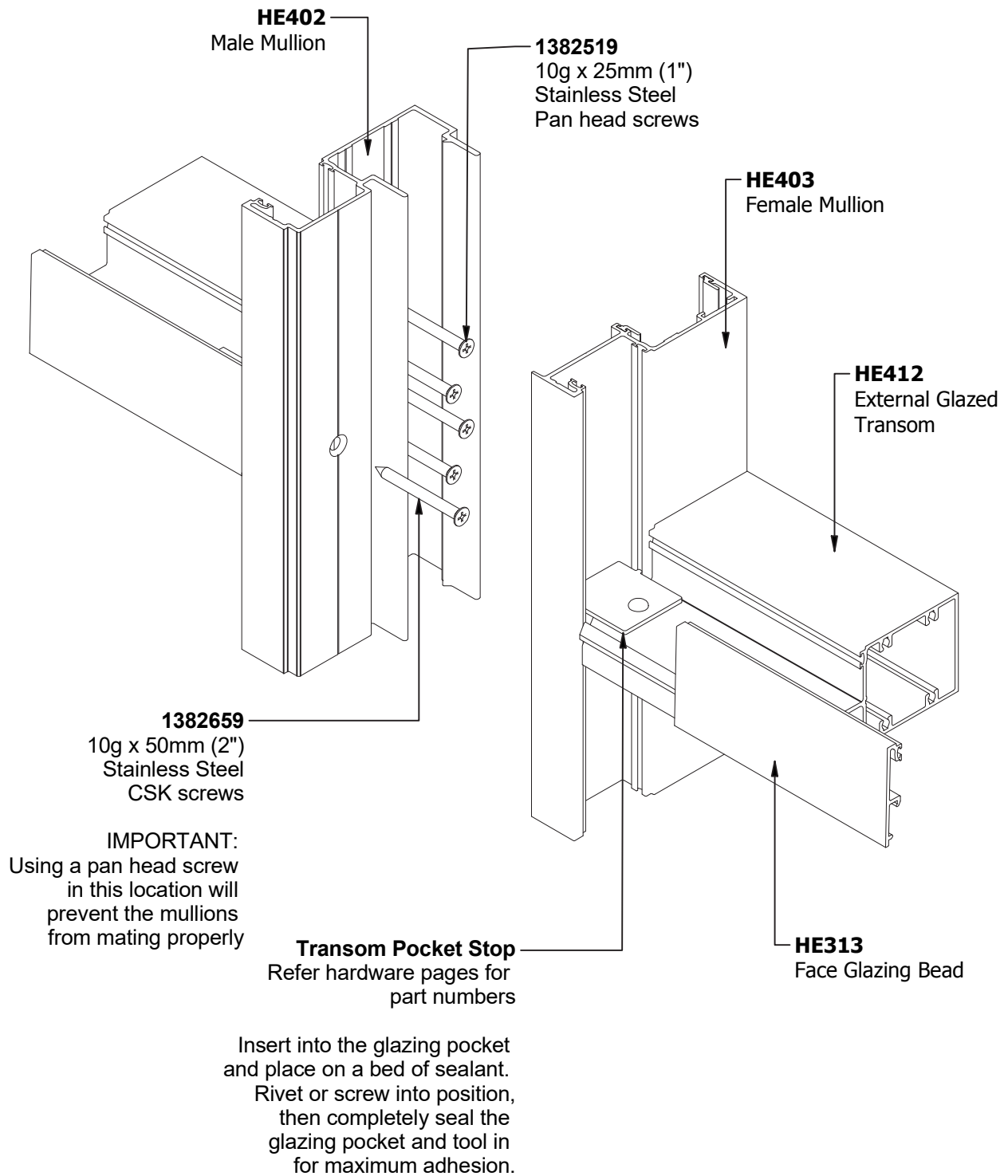
Frame Preparation - Sill / Transom Drainage





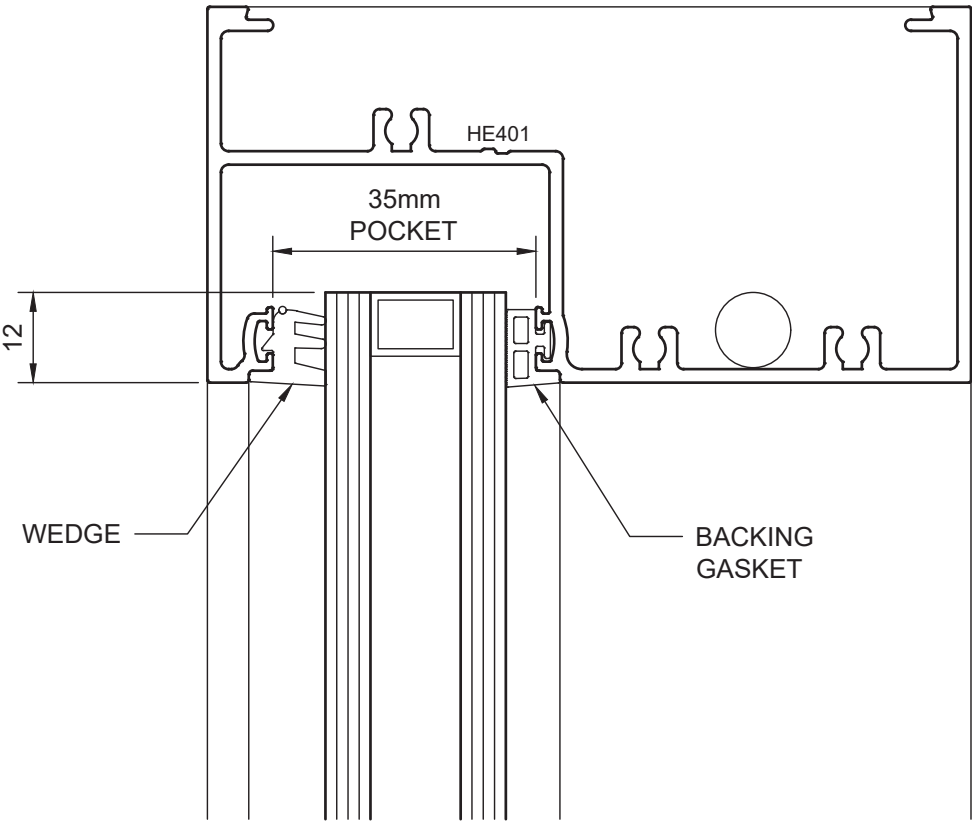
11. Assembly Details

Transom Assembly and Sealing Details



12. Glazing Details

Glazing Details - Captive

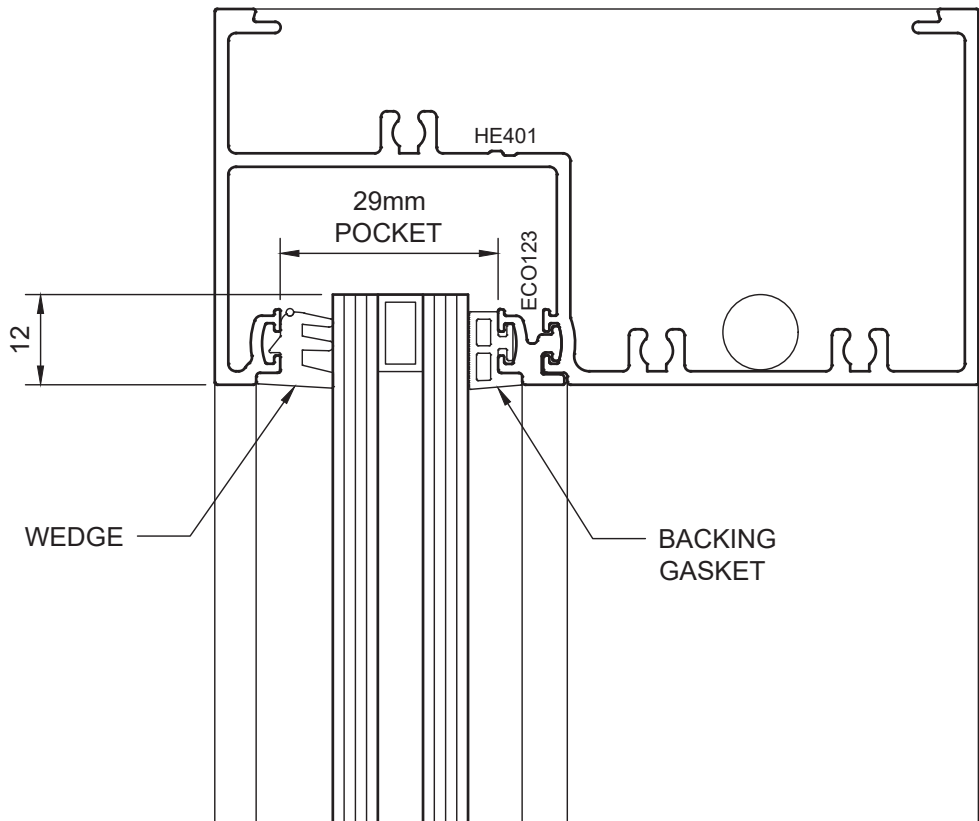


	WEDGE		PUSH IN BACKING GASKET	CO-EXTRUDED BACKING GASKET
GLASS THICKNESS	ID COLOUR	REF. (GAP)	REF. (GAP)	REF. (GAP)
22mm	RED	GR47 (7mm)	GR49 (6mm)	CE49 (6mm)
24mm	RED	GR47 (7mm)	GR37 (4mm)	CE37 (4mm)
25mm	YELLOW	GR46 (6mm)	GR37 (4mm)	CE37 (4mm)
28mm	BLUE	GR45 (5mm)	GR36 (2mm)	CE36 (2mm)
30mm	BROWN	GR43 (3mm)	GR36 (2mm)	CE36 (2mm)

REVERSE GLAZING WEDGE COMBINATIONS FOR INTERNAL GLAZING

12. Glazing Details

Glazing Details - with ECO123 Glazing Adaptor

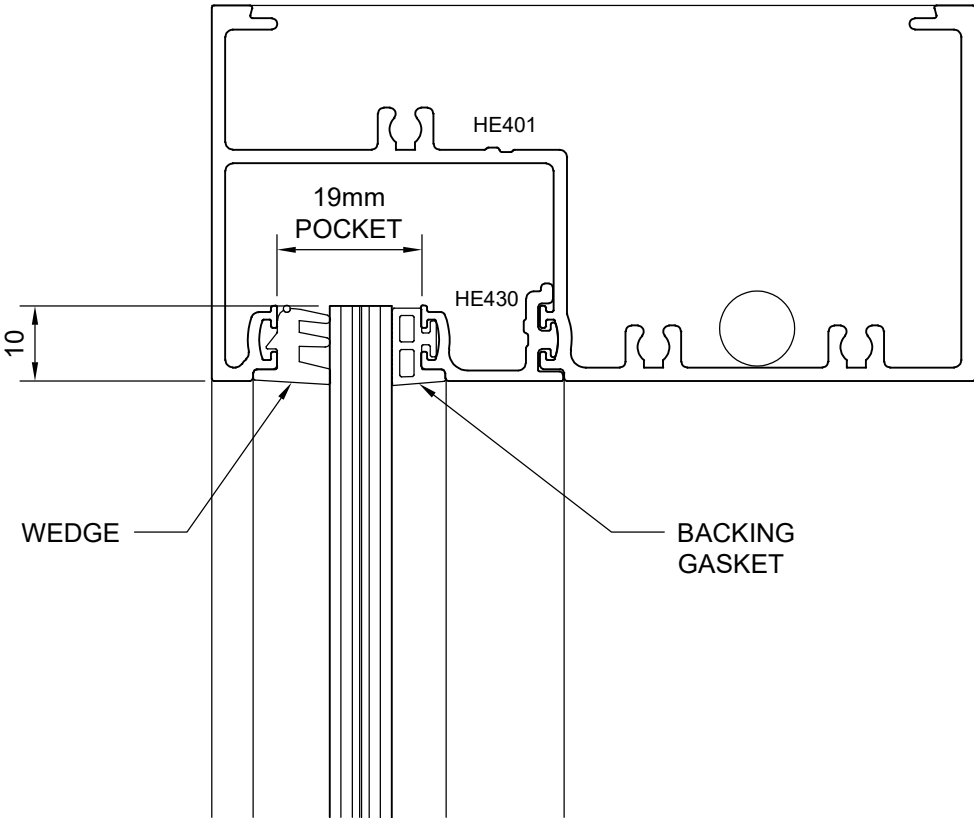


	WEDGE		PUSH IN BACKING GASKET	CO-EXTRUDED BACKING GASKET
GLASS THICKNESS	ID COLOUR	REF. (GAP)	REF. (GAP)	REF. (GAP)
15mm	ORANGE	GR48 (8mm)	GR49 (6mm)	CE49 (6mm)
16mm	RED	GR47 (7mm)	GR49 (6mm)	CE49 (6mm)
17mm	YELLOW	GR46 (6mm)	GR49 (6mm)	CE49 (6mm)
18mm	BLUE	GR45 (5mm)	GR49 (6mm)	CE49 (6mm)
20mm	BLUE	GR45 (5mm)	GR37 (4mm)	CE37 (4mm)

REVERSE GLAZING WEDGE COMBINATIONS FOR INTERNAL GLAZING

12. Glazing Details

Glazing Details - With HE430 Glazing Adaptor



	WEDGE		PUSH IN BACKING GASKET	CO-EXTRUDED BACKING GASKET
GLASS THICKNESS	ID COLOUR	REF. (GAP)	REF. (GAP)	REF. (GAP)
6/6.38mm	RED	GR47 (7mm)	GR49 (6mm)	CE49 (6mm)
8/8.38mm	BLUE	GR45 (5mm)	GR49 (6mm)	CE49 (6mm)
10/10.38mm	BLUE	GR45 (5mm)	GR37 (4mm)	CE37 (4mm)
12/12.38mm	BLUE	GR45 (5mm)	GR36 (2mm)	CE36 (2mm)
14mm	BROWN	GR43 (3mm)	GR36 (2mm)	CE36 (2mm)

REVERSE GLAZING WEDGE COMBINATIONS FOR INTERNAL GLAZING

13. Care & Maintenance

FRAMING

Your new **Hunter Evo 101.6mm Double Flush Glazed Framing** have been manufactured using the highest quality materials available to the Architectural industry. Constructed from Architectural grade aluminium, these products are highly corrosion resistant and exceptionally strong. With a moderate amount of maintenance, the **Hunter Evo 101.6mm Double Flush Glazed** frame will retain it's good looks and resist the elements for years to come.

The **Hunter Evo 101.6mm Double Flush Glazed** frames are the product of extensive research and development and designed to resist corrosion and rusting, but as with all external elements on the building require some maintenance to keep them looking good and performing well. Depending on how harsh the environment elements are, the maintenance period will vary. Refer to recommended maintenance table below.

Your **Hunter Evo 101.6mm Double Flush Glazed** frames should only ever need to be washed down with a soft bristled brush using warm water and mild detergent. Rinse well with fresh water and remove any detergent residue. Strong detergents and abrasive cleaners should never be used to clean the **Hunter Evo 101.6mm Double Flush Glazed** frames as they may scratch or damage the surface finish.

MAINTENANCE PERIOD TABLE

ENVIRONMENT	RECOMMENDED MAXIMUM MAINTENANCE INTERVAL
Mild	Six Months
Moderate	Three Months
Tropical/Severe	One Month

Environmental Definitions:

Mild – Being rural, away from the coast and remote from industry and urban activity.

Moderate – Being mainly urban, inland and away from heavy industry.

Tropical – Being coastal/marine, subject to salt deposition and within 15km of the Eastern coast or 10km of the Western coast of Australia.

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All pictures shown in this catalogue are for illustration purposes only. Actual product may vary due to product enhancement.