



Hunter Evo

Single Flush Glazed Framing



Hunter Evo 150mm Single 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 150mm SINGLE FLUSH GLAZED FRAMING** system.

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

GLAZING

- Minimum glass thickness is 4mm
- Maximum glass thickness is 14mm
- Glazing wedges shall be Alspec's wedges for **HUNTER EVO 150mm SINGLE FLUSH GLAZED FRAMING** to suit standard & captive glazing options, refer glazing pages 12.1 TO 12.5.

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 150mm SINGLE 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	2100	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 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 (Ultimate).

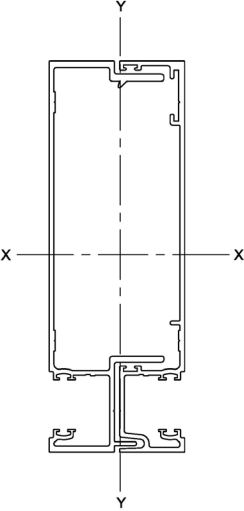
3. Loading Tables

HE362 + HE363 Mullion Combination

Max Stress = 110Mpa

S = Serviceability limit state l/250

U = Ultimate limit state

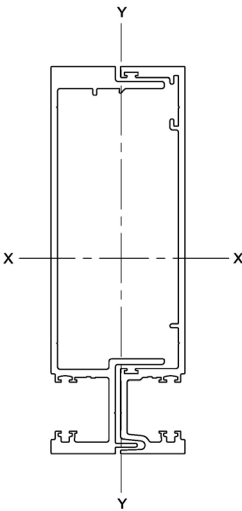
HE362 + HE363 MULLION COMBINATION	Panel Height	Maximum Design Pressure (Pa)						
	4500	S	1240	830	630			
		U	2970	2000	1510			
	4200	S	1530	1030	780	640	540	
		U	3420	2300	1740	1420	1200	
	3900	S	1910	1290	980	800	690	610
		U	3970	2670	2030	1650	1410	1240
	3600	S	2440	1650	1260	1030	890	790
		U	4670	3150	2400	1960	1680	1490
	3300	S	3000	2150	1650	1360	1180	1060
		U	5560	3760	2880	2360	2030	1810
	3000	S	3000	2880	2220	1850	1610	1460
		U	6750	4570	3510	2900	2520	2270
	2700	S	3000	3000	3000	2600	2290	2110
		U	8360	5690	4400	3660	3210	2940
	2400	S	3000	3000	3000	3000	3000	3000
		U	9000	7280	5670	4780	4270	3990
	2100	S	3000	3000	3000	3000	3000	3000
		U	9000	9000	7620	6550	6000	5820
	1800	S	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	9000
Ixx = 3191 x 10³ mm⁴	Mullion Spacing		600	900	1200	1500	1800	2100
							2400	

Tables are based on theoretical section properties

3. Loading Tables

HE382 + HE383 Mullion Combination

Max Stress = 110Mpa S = Serviceability limit state I/250 U = Ultimate limit state

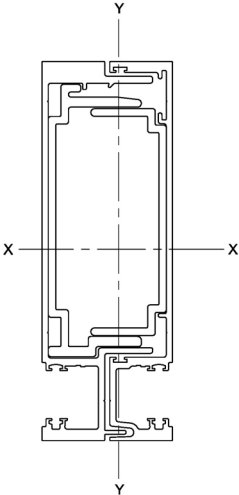
HE382 + HE383 MULLION COMBINATION	Panel Height	Maximum Design Pressure (Pa)							
	4500	S	1840	1230	940	760	650	570	510
		U	4390	2950	2230	1810	1530	1340	1200
	4200	S	2260	1520	1160	940	800	710	640
		U	5040	3390	2570	2090	1770	1560	1400
	3900	S	2830	1910	1450	1190	1020	900	820
		U	5850	3940	3000	2440	2080	1830	1660
	3600	S	3000	2440	1860	1530	1310	1170	1070
		U	6880	4640	3540	2890	2480	2190	2000
	3300	S	3000	3000	2440	2010	1740	1560	1440
		U	8210	5550	4240	3480	3000	2680	2460
	3000	S	3000	3000	3000	2730	2380	2160	2020
		U	9000	6750	5180	4280	3720	3350	3120
	2700	S	3000	3000	3000	3000	3000	3000	2980
		U	9000	8390	6490	5400	4740	4340	4110
	2400	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	8370	7050	6290	5880	5750
	2100	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	8850	8590	8160
1800	S	3000	3000	3000	3000	3000	3000	3000	
	U	9000	9000	9000	9000	9000	9000	9000	
I _{xx} = 4717 x 10 ³ mm ⁴	Mullion Spacing		600	900	1200	1500	1800	2100	2400

Tables are based on theoretical section properties

3. Loading Tables

HE382 + HE383 & HE388 + HE389 Mullion Combination

Max Stress = 110Mpa S = Serviceability limit state l/250 U = Ultimate limit state

HE382 + HE383 & HE388 + HE389 MULLION COMBINATION	Panel Height	Maximum Design Pressure (Pa)							
	4500	S	2410	1620	1230	1000	850	740	670
		U	5750	3860	2920	2370	2010	1760	1570
	4200	S	2960	1990	1520	1240	1050	930	840
		U	6600	4440	3370	2740	2330	2040	1840
	3900	S	3000	2500	1910	1560	1330	1180	1070
		U	7670	5160	3920	3200	2730	2400	2170
	3600	S	3000	3000	2440	2000	1720	1530	1400
		U	9000	6080	4630	3790	3240	2870	2620
	3300	S	3000	3000	3000	2640	2280	2050	1890
		U	9000	7260	5550	4560	3930	3510	3220
	3000	S	3000	3000	3000	3000	3000	2830	2650
		U	9000	8830	6790	5610	4870	4390	4080
	2700	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	8490	7070	6210	5680	5380
	2400	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	8240	7700	7530
	2100	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	9000	9000
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	9000	9000
lxx = 6175 x 10 ³ mm ⁴	Mullion Spacing		600	900	1200	1500	1800	2100	2400

Tables are based on theoretical section properties

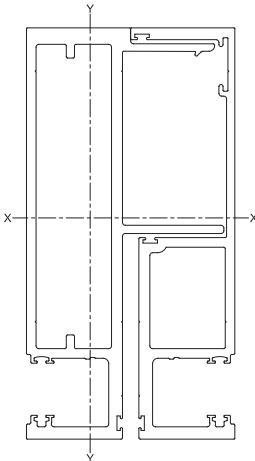
3. Loading Tables

HE364 + HE365 Mullion Combination

Max Stress = 210Mpa

S = Serviceability limit state l/250

U = Ultimate limit state

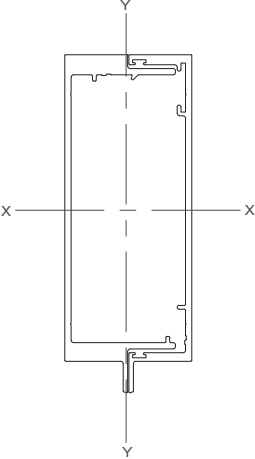
HE364 + HE365 MULLION COMBINATION	Panel Height	Maximum Design Pressure (Pa)							
	4500	S	2730	1840	1390	1130	960	840	760
		U	9000	8060	6110	4950	4200	3670	3290
	4200	S	3000	2270	1720	1400	1200	1050	950
		U	9000	9000	7040	5720	4860	4260	3840
	3900	S	3000	2840	2170	1770	1510	1340	1220
		U	9000	9000	8200	6680	5700	5020	4540
	3600	S	3000	3000	2770	2270	1960	1740	1590
		U	9000	9000	9000	7910	6780	6000	5470
	3300	S	3000	3000	3000	3000	2590	2330	2150
		U	9000	9000	9000	9000	8210	7320	6730
	3000	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	9000	8530
	2700	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	9000	9000
	2400	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	9000	9000
	2100	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	9000	9000
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	9000	9000
I _{xx} = 6964 x 10 ³ mm ⁴	Mullion Spacing	600	900	1200	1500	1800	2100	2400	

Tables are based on theoretical section properties

3. Loading Tables

HE374 + HE375 Structurally Glazed Mullion Combination

Max Stress = 110Mpa S = Serviceability limit state l/250 U = Ultimate limit state

HE374 + HE375 STRUCTURALLY GLAZED MULLION COMBINATION	Panel Height	Maximum Design Pressure (Pa)						
	4500	S	1140	770	580			
		U	2950	1980	1500			
	4200	S	1410	950	720	590	500	
		U	3390	2280	1730	1410	1190	
	3900	S	1770	1190	910	740	630	510
		U	3940	2650	2020	1640	1400	1120
	3600	S	2250	1520	1160	950	820	730
		U	4630	3120	2380	1950	1670	1480
	3300	S	2930	1980	1520	1260	1090	970
		U	5520	3730	2860	2340	2020	1800
	3000	S	3000	2660	2050	1700	1490	1350
		U	6700	4540	3490	2880	2500	2250
	2700	S	3000	3000	2860	2400	2120	1950
		U	8300	5650	4370	3640	3190	2920
	2400	S	3000	3000	3000	3000	3000	2990
		U	9000	7230	5630	4750	4240	3960
	2100	S	3000	3000	3000	3000	3000	3000
		U	9000	9000	7570	6500	5960	5780
	1800	S	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	9000
lxx = 2945 x 10 ³ mm ⁴	Mullion Spacing		600	900	1200	1500	1800	2100
								2400

Tables are based on theoretical section properties



3. Loading Tables

HE374 + HE375 & HE386 + HE388 Structurally Glazed Mullion Combination

Max Stress = 110Mpa S = Serviceability limit state l/250 U = Ultimate limit state

HE374 + HE375 & HE386 + HE388 STRUCTURALLY GLAZED MULLION COMBINATION	Panel Height	Maximum Design Pressure (Pa)							
	4500	S	1520	1020	770	630	530		
		U	3920	2630	1990	1620	1370		
	4200	S	1870	1260	960	780	660	580	530
		U	4500	3030	2300	1870	1590	1390	1250
	3900	S	2340	1580	1200	980	840	740	680
		U	5230	3520	2680	2180	1860	1640	1480
	3600	S	2990	2020	1540	1270	1090	970	890
		U	6150	4150	3160	2580	2210	1960	1780
	3300	S	3000	2630	2020	1670	1440	1290	1200
		U	7330	4950	3790	3110	2680	2390	2200
	3000	S	3000	3000	2720	2260	1970	1790	1680
		U	8890	6030	4630	3830	3320	2990	2780
	2700	S	3000	3000	3000	3000	2810	2590	2470
		U	9000	7500	5800	4830	4240	3870	3670
	2400	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	7480	6300	5620	5260	5140
	2100	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	8630	7900	7670	7280
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	9000	9000
I _{xx} = 4370 x 10 ³ mm ⁴	Mullion Spacing		600	900	1200	1500	1800	2100	2400

Tables are based on theoretical section properties

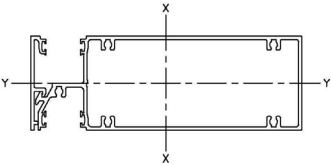
3. Loading Tables

HE372 + HE313 Transom

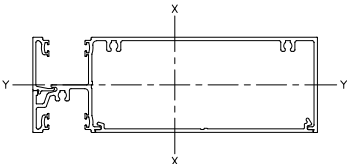
Max Stress = 110Mpa

S = Serviceability limit state l/250

U = Ultimate limit state

HE372 + HE313 TRANSOM	Transom Centres	Maximum Design Loads (Pa)					
	2400	S	3000	3000	3000	3000	1950
		U	9000	9000	5760	3690	2520
	2100	S	3000	3000	3000	3000	1990
		U	9000	9000	5860	3760	2580
	1800	S	3000	3000	3000	3000	2110
		U	9000	9000	5980	3880	2760
	1500	S	3000	3000	3000	3000	2350
		U	9000	9000	6220	4230	3090
	1200	S	3000	3000	3000	3000	2760
		U	9000	9000	7020	4930	3670
	900	S	3000	3000	3000	3000	3000
		U	9000	9000	8700	6240	4700
	Max Kg		200	200	200	134	90
						63	
$I_{xx} = 1956 \times 10^3 \text{ mm}^4$ $I_{yy} = 337 \times 10^3 \text{ mm}^4$	Transom length		1200	1500	1800	2100	2400

HE367 + HE313 + AS364 Transom

HE367 + HE313 + AS364 TRANSOM	Transom Centres	Maximum Design Loads (Pa)				
	2400	S	3000	3000	3000	2350
		U	9000	8250	4750	3170
	2100	S	3000	3000	3000	2450
		U	9000	8300	4800	3070
	1800	S	3000	3000	3000	2500
		U	9000	8350	4880	3160
	1500	S	3000	3000	3000	2850
		U	9000	8440	5080	3450
	1200	S	3000	3000	3000	3000
		U	9000	8940	5730	4020
	900	S	3000	3000	3000	3000
		U	9000	9000	7100	5090
	Max Kg		200	200	117	73
						49
$I_{xx} = 1770 \times 10^3 \text{ mm}^4$ $I_{yy} = 185 \times 10^3 \text{ mm}^4$	Transom length		1200	1500	1800	2100

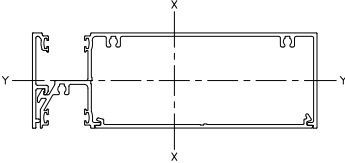
Tables are based on theoretical section properties

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

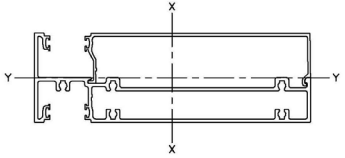
3. Loading Tables

HE377 + HE313 + AS364 Transom

Max Stress = 110Mpa S = Serviceability limit state I/250 U = Ultimate limit state

HE377 + HE313 + AS364 TRANSOM	Transom Centres	Maximum Design Loads (Pa)					
	2400	S	3000	3000	3000		
		U	9000	9000	4550		
	2100	S	3000	3000	3000	2740	
		U	9000	9000	4600	2940	
	1800	S	3000	3000	3000	2810	
		U	9000	8620	4670	3030	
	1500	S	3000	3000	3000	3000	
		U	9000	8070	4860	3300	
	1200	S	3000	3000	3000	3000	2270
		U	9000	8550	5480	3850	2860
	900	S	3000	3000	3000	3000	2900
		U	9000	9000	6790	4870	3670
	Max Kg		200	182	105	66	44
Ixx = 1610 x 10 ³ mm ⁴ Iyy = 167 x 10 ³ mm ⁴		Transom length	1200	1500	1800	2100	2400

HE370 + HE371 Transom

HE370 + HE371 TRANSOM	Transom Centres	Maximum Design Loads (Pa)					
	2400	S	3000	3000	3000		
		U	9000	9000	5700		
	2100	S	3000	3000	3000		
		U	9000	9000	5750		
	1800	S	3000	3000	3000		
		U	9000	9000	5800		
	1500	S	3000	3000	3000	3000	
		U	9000	9000	6030	4100	
	1200	S	3000	3000	3000	3000	
		U	9000	9000	6810	4780	
	900	S	3000	3000	3000	3000	
		U	9000	9000	8430	6050	
	Max Kg		200	137	79	50	
Ixx = 2106 x 10 ³ mm ⁴ Iyy = 119 x 10 ³ 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.

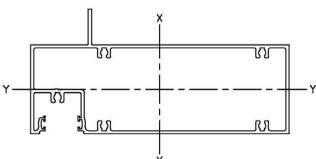
3. Loading Tables

HE384 150mm Transom SG 35mm Sash

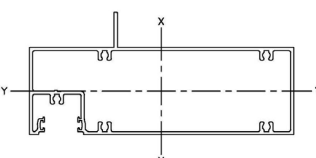
Max Stress = 110Mpa

S = Serviceability limit state I/250

U = Ultimate limit state

HE384 150mm TRANSOM SG 35mm SASH	Transom Centres	Maximum Design Loads (Pa)			
	2400	S	3000	3000	3000
		U	9000	9000	9000
	2100	S	3000	3000	3000
		U	9000	9000	9000
	1800	S	3000	3000	3000
		U	9000	9000	9000
	1500	S	3000	3000	3000
		U	9000	9000	9000
	1200	S	3000	3000	3000
		U	9000	9000	9000
	900	S	3000	3000	3000
		U	9000	9000	9000
Max Kg		200	200	200	
$I_{xx} = 2450 \times 10^3 \text{ mm}^4$ $I_{yy} = 422 \times 10^3 \text{ mm}^4$	Transom length	1200	1500	1800	

HE385 150mm Transom SG 50mm Sash

HE385 150mm TRANSOM SG 50mm SASH	Transom Centres	Maximum Design Loads (Pa)			
	2400	S	3000	3000	3000
		U	9000	9000	5650
	2100	S	3000	3000	3000
		U	9000	9000	5710
	1800	S	3000	3000	3000
		U	9000	9000	5790
	1500	S	3000	3000	3000
		U	9000	9000	6020
	1200	S	3000	3000	3000
		U	9000	9000	6790
	900	S	3000	3000	3000
		U	9000	9000	8420
Max Kg		200	200	200	
$I_{xx} = 2420 \times 10^3 \text{ mm}^4$ $I_{yy} = 430 \times 10^3 \text{ mm}^4$	Transom length	1200	1500	1800	

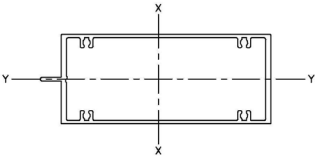
Tables are based on theoretical section properties

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

3. Loading Tables

HE376 Structurally Glazed Transom

Max Stress = 110Mpa S = Serviceability limit state l/250 U = Ultimate limit state

HE376 STRUCTURALLY GLAZED TRANSOM	Transom Centres	Maximum Design Loads (Pa)						
	2400	S	3000	3000	3000	3000	1810	
		U	9000	9000	5650	3590	2400	
	2100	S	3000	3000	3000	3000	1840	
		U	9000	9000	5700	3640	2490	
	1800	S	3000	3000	3000	3000	1960	
		U	9000	9000	5790	3750	2670	
	1500	S	3000	3000	3000	3000	2180	1480
		U	9000	9000	6020	4100	2990	2290
	1200	S	3000	3000	3000	3000	2570	1760
		U	9000	9000	6790	4770	3550	2750
	900	S	3000	3000	3000	3000	3000	2270
		U	9000	9000	8420	6040	4550	3560
	Max Kg		200	200	200	136	91	64
	Transom length		1200	1500	1800	2100	2400	2700
Ixx = 1817 x 10 ³ mm ⁴ Iyy = 343 x 10 ³ mm ⁴								

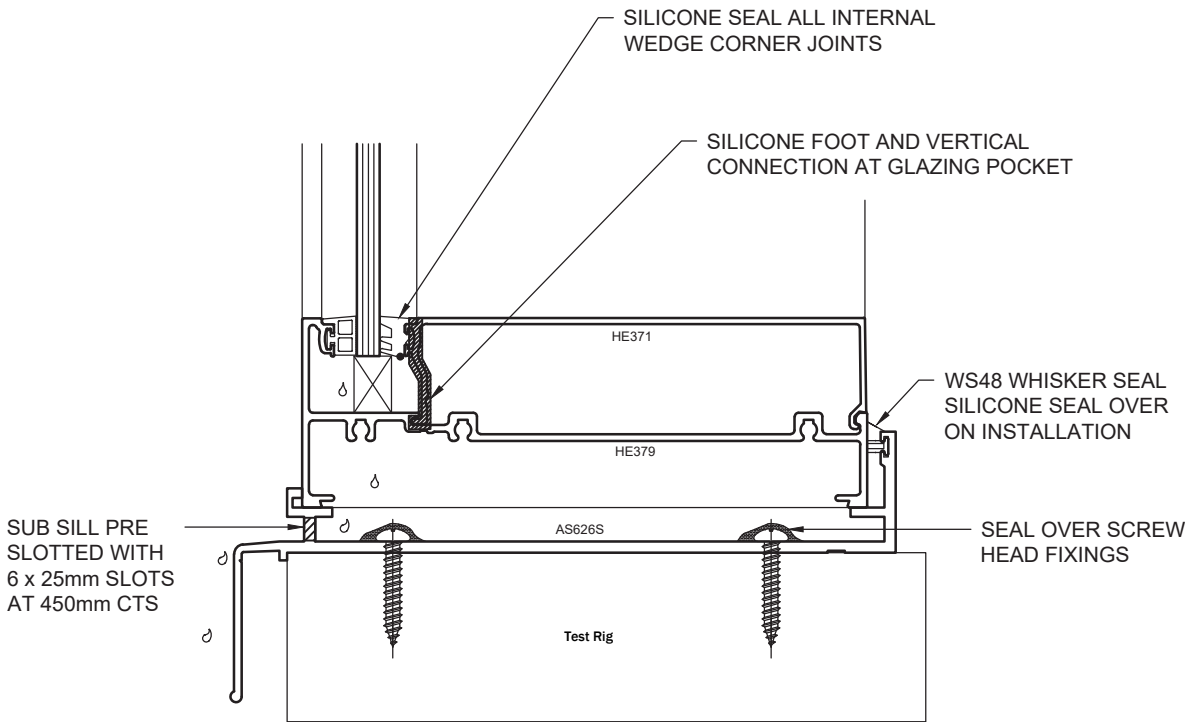
Tables are based on theoretical section properties

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

TEST REPORT:	AS12.178
SYSTEM CONFIGURATION	HUNTER EVO 150mm F/F WITH HE362 HE363 MULLION WITH ECO106 MULLION CLIP AND HE379 HE371 INTERNAL GLAZE SILL
TEST SAMPLE SIZE	3000 H x 3000 W
SERVICEABILITY LOAD	+/- 1820 Pa
ULTIMATE LOAD	+/- 2285 Pa
WATER PENETRATION	1000 Pa
AIR INFILTRATION @ 75Pa	+ 0.00 L/s/ms ² - 0.10 L/s/ms ²

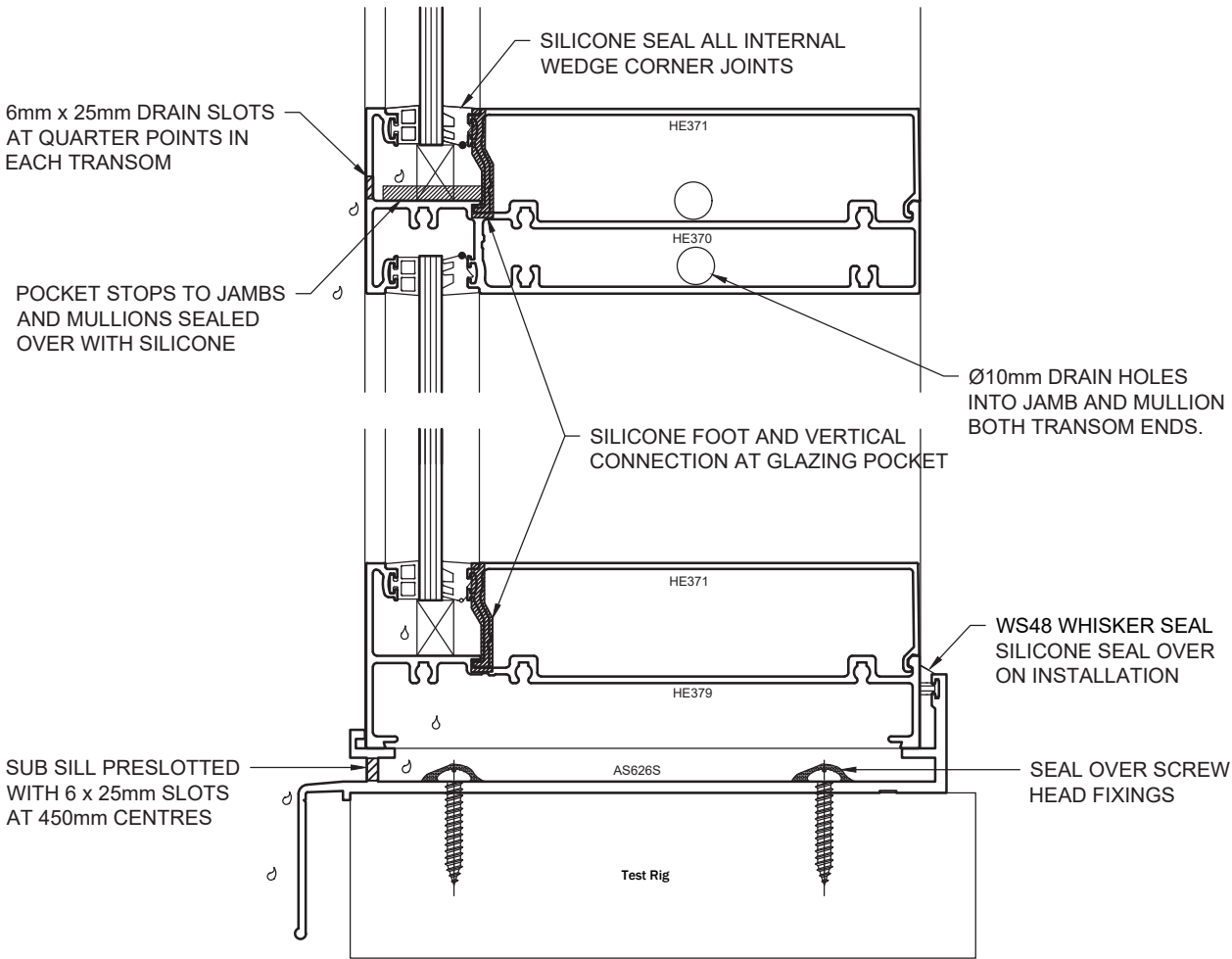


DISCLAIMER:
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4. Test Summary

AS2047 - Fixed/ Fixed over Fixed/ Fixed

TEST REPORT:	AS12.179
SYSTEM CONFIGURATION	HUNTER EVO 150mm F/F-F/F WITH HE362 HE363 MULLION AND HE370 HE371 INTERNAL GLAZE TRANSOM
TEST SAMPLE SIZE	3000 H x 3000 W
SERVICEABILITY LOAD	+/- 1688 Pa
ULTIMATE LOAD	+/- 2827 Pa
WATER PENETRATION	800 Pa
AIR INFILTRATION @ 75Pa	+ 0.09 L/s/ms ² - 0.22 L/s/ms ²



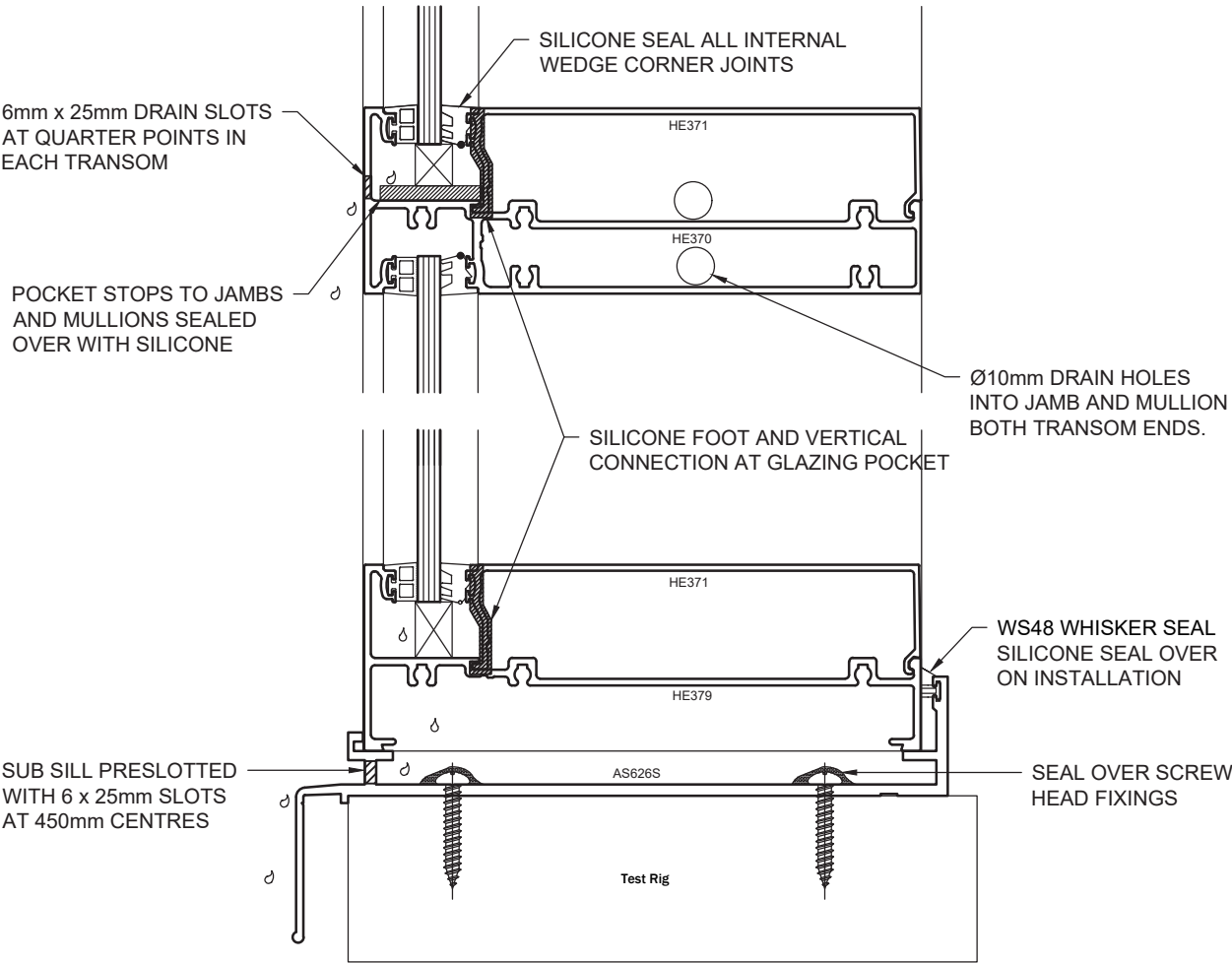
DISCLAIMER:

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4. Test Summary

AS2047 - Fixed/ Fixed over Fixed/ Fixed

TEST REPORT:	AS12.180
SYSTEM CONFIGURATION	HUNTER EVO 150mm SG F/F-F/F WITH HE382 HE383 MULLION AND HE370 HE371 INTERNAL GLAZE TRANSOM
TEST SAMPLE SIZE	3000 H x 3000 W
SERVICEABILITY LOAD	+/- 2642 Pa
ULTIMATE LOAD	+/- 4207 Pa
WATER PENETRATION	800 Pa
AIR INFILTRATION @ 75Pa	+ 0.08 L/s/ms ² - 0.14 L/s/ms ²

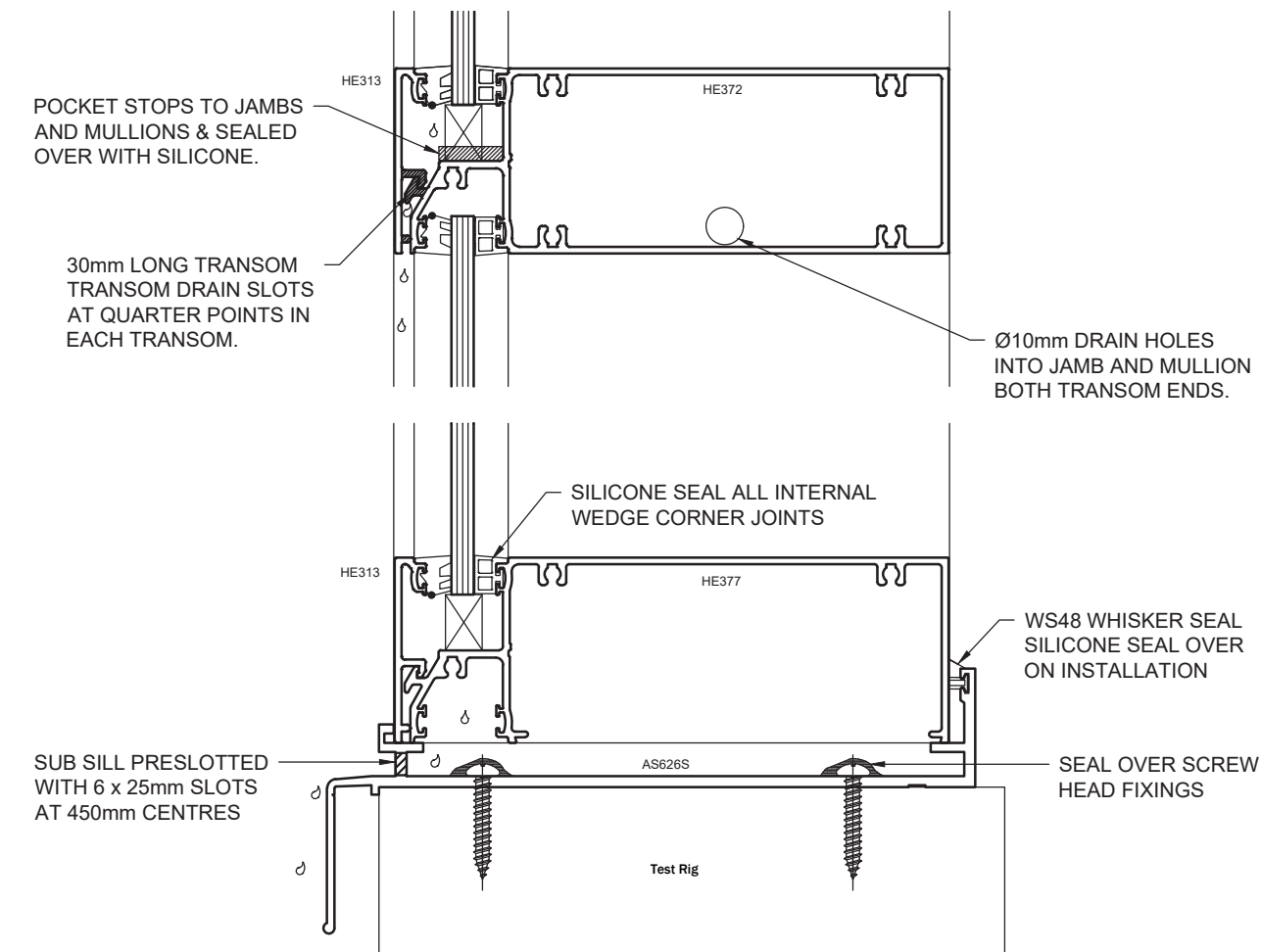


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4. Test Summary

AS2047 - Fixed/ Fixed over Fixed/ Fixed

TEST REPORT:	AS12.181
SYSTEM CONFIGURATION	HUNTER EVO 150mm F/F-F/F WITH HE362 HE363 MULLION AND HE372 HE313 EXTERNAL GLAZE TRANSOM
TEST SAMPLE SIZE	3000 H x 3000 W
SERVICEABILITY LOAD	+/- 1683 Pa
ULTIMATE LOAD	+/- 2808 Pa
WATER PENETRATION	1000 Pa
AIR INFILTRATION @ 75Pa	+ 0.14 L/s/ms ² - 0.33 L/s/ms ²



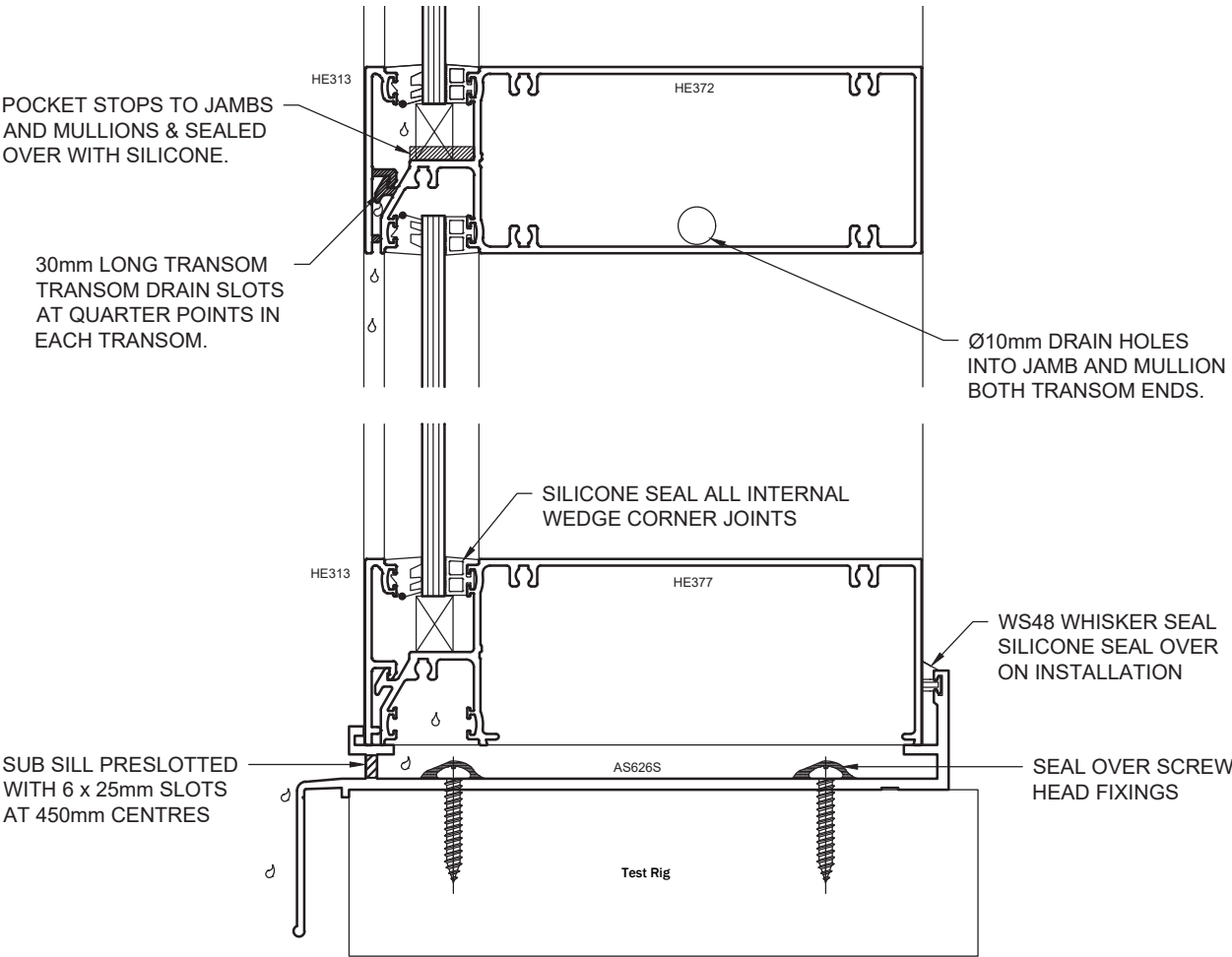
DISCLAIMER:

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4. Test Summary

AS2047 - Fixed/ Fixed over Fixed/ Fixed

TEST REPORT:	AS12.182
SYSTEM CONFIGURATION	HUNTER EVO 150mm F/F-F/F WITH HE382 HE383 MULLION AND HE372 HE313 EXTERNAL GLAZE TRANSOM
TEST SAMPLE SIZE	3000 H x 3000 W
SERVICEABILITY LOAD	+/- 2717 Pa
ULTIMATE LOAD	+/- 4207 Pa
WATER PENETRATION	1000 Pa
AIR INFILTRATION @ 75Pa	+ 0.02 L/s/ms ² - 0.06 L/s/ms ²

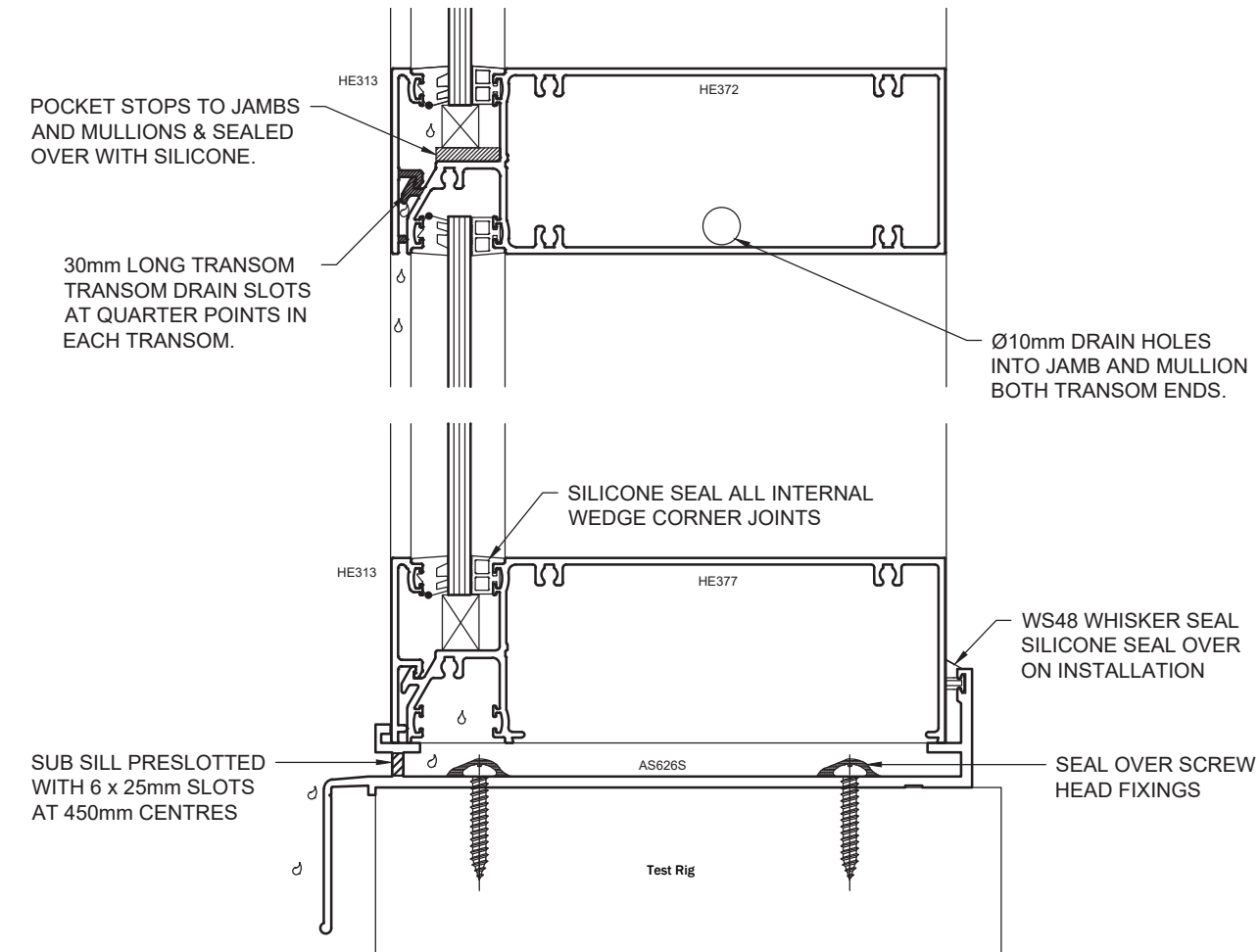


DISCLAIMER:
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4. Test Summary

AS2047 - Fixed/ Fixed over Fixed/ Fixed

TEST REPORT:	AS12.183
SYSTEM CONFIGURATION	HUNTER EVO 150mm F/F-F/F WITH HE382 HE383 MULLION WITH HE388 HE389 STIFFENERS AND HE372 HE313 EXTERNAL GLAZE TRANSOM
TEST SAMPLE SIZE	3000 H x 3000 W
SERVICEABILITY LOAD	+/- 3373 Pa
ULTIMATE LOAD	+/- 5412 Pa
WATER PENETRATION	1000 Pa
AIR INFILTRATION @ 75Pa	+ 0.01 L/s/ms ² - 0.03 L/s/ms ²



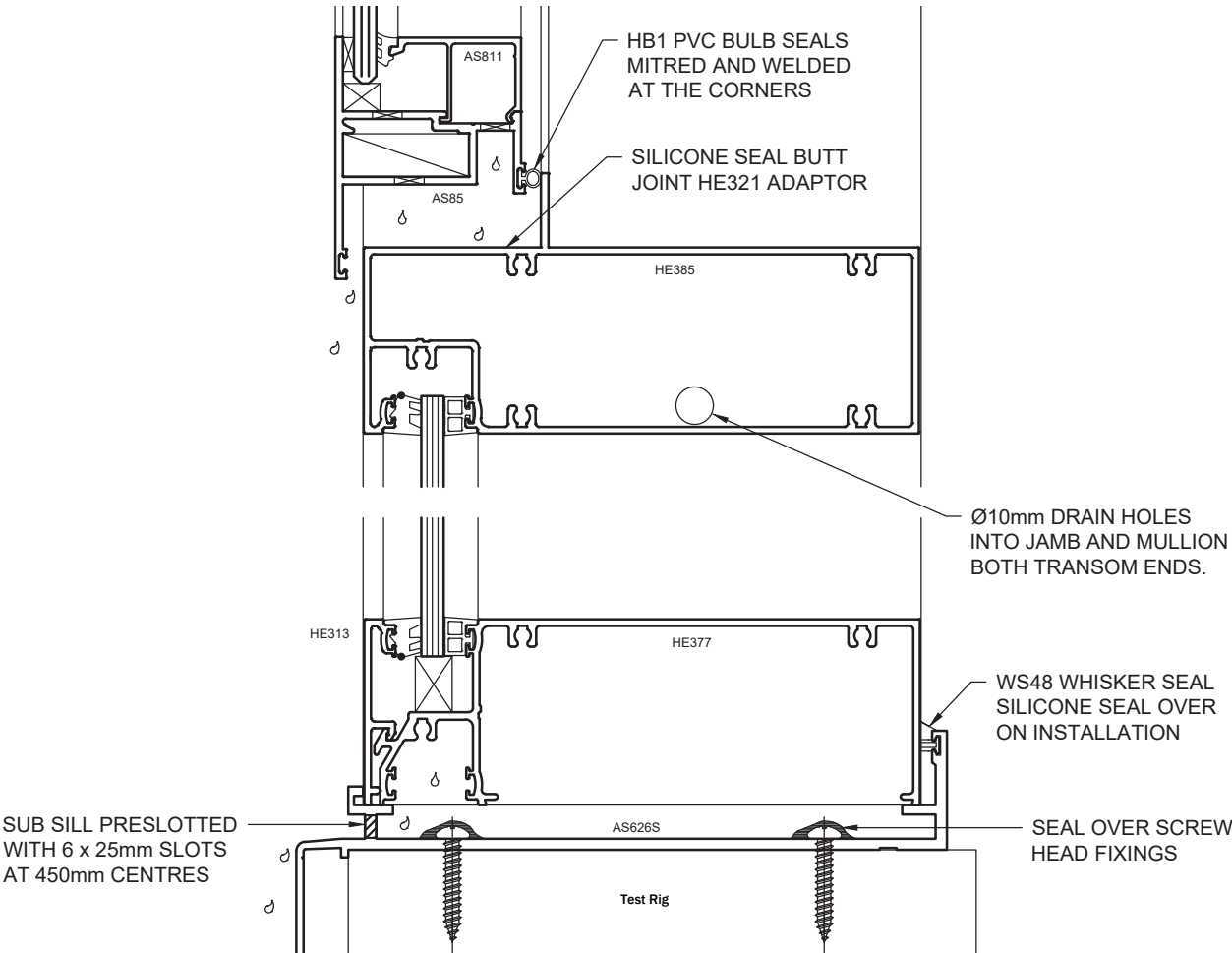
DISCLAIMER:

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4. Test Summary

AS2047 - Awning/ Fixed over Fixed/ Fixed

TEST REPORT:	AS12.190
SYSTEM CONFIGURATION	HUNTER EVO 150mm A/F-F/F WITH HE382 HE383 MULLION AND HE385 AWNING TRANSOM WITH AS85 AWNING 1800 H x 1200 W
TEST SAMPLE SIZE	2400 H x 2400 W
SERVICEABILITY LOAD	+/- 1000 Pa
ULTIMATE LOAD	+/- 1515 Pa
WATER PENETRATION	600 Pa
AIR INFILTRATION @ 75Pa	+ 0.31 L/s/ms ² - 1.15 L/s/ms ²

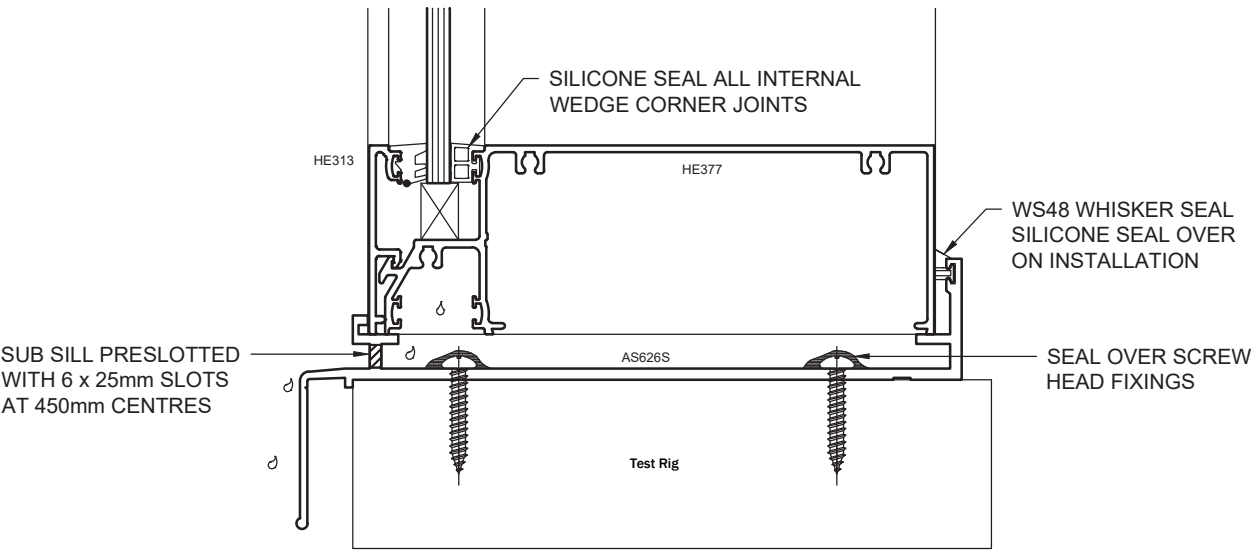


DISCLAIMER:
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4. Test Summary

AS2047 - Fixed/ Fixed

TEST REPORT:	AS12.184
SYSTEM CONFIGURATION	HUNTER EVO 150mm F/F WITH HE382 HE383 MULLION WITH ECO106 MULLION CLIP AND HE377 HE 313 EXTERNAL GLAZE SILL
TEST SAMPLE SIZE	3000 H x 3000 W
SERVICEABILITY LOAD	+/- 2238 Pa
ULTIMATE LOAD	+/- 4195 Pa
WATER PENETRATION	1000 Pa
AIR INFILTRATION @ 75Pa	+ 0.05 L/s/ms ² - 0.01 L/s/ms ²



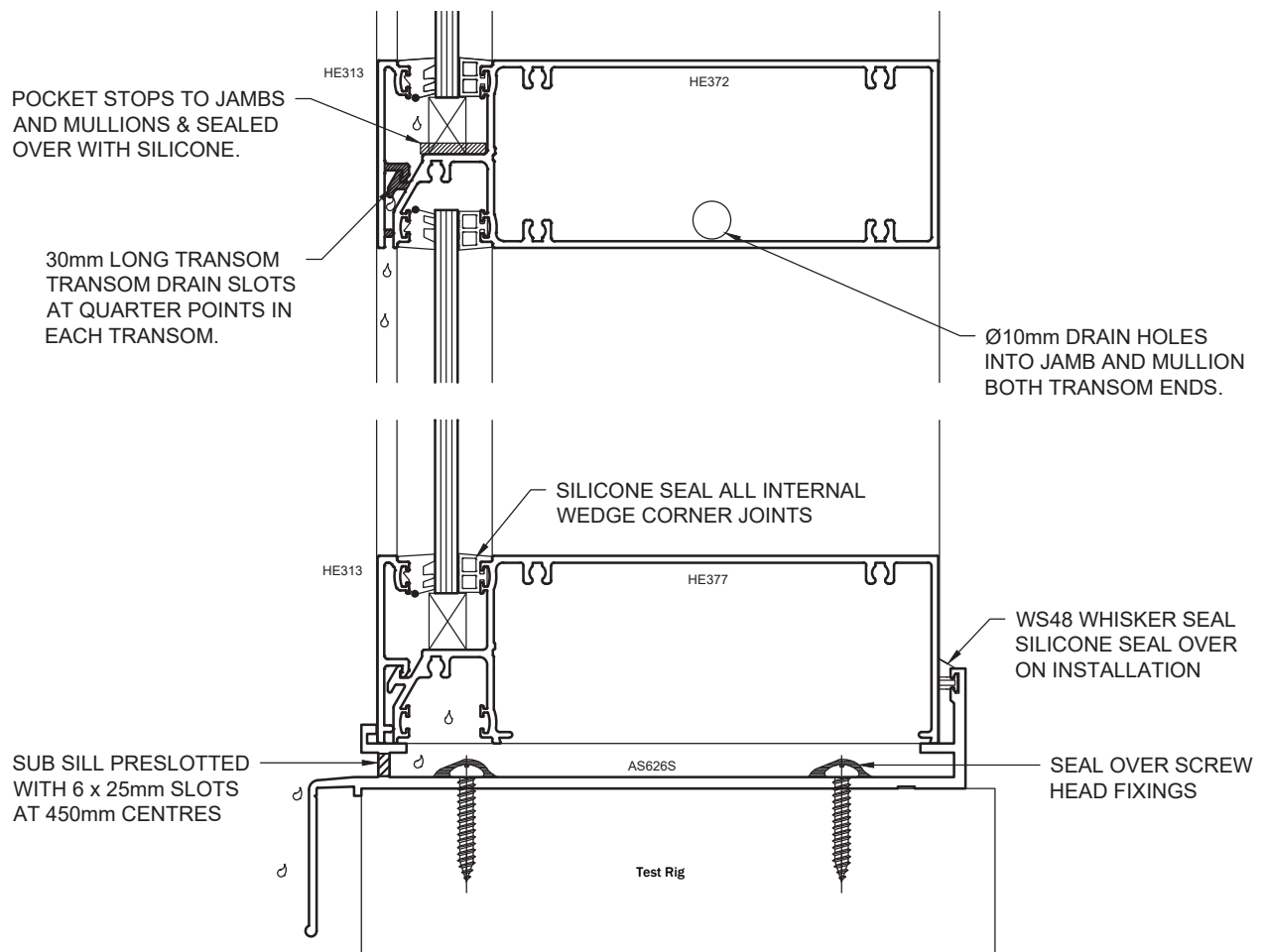
DISCLAIMER:

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4. Test Summary

AS2047 - Fixed/ Fixed over Fixed/ Fixed

TEST REPORT:	AS12.185
SYSTEM CONFIGURATION	HUNTER EVO 150mm F/F-F/F WITH HE382 HE383 MULLION WITH HE388 HE389 STIFFENERS AND HE372 HE313 EXTERNAL GLAZE TRANSOM
TEST SAMPLE SIZE	2700 H x 2000 W
SERVICEABILITY LOAD	+/- 6000 Pa
ULTIMATE LOAD	+/- 9000 Pa
WATER PENETRATION	1000 Pa
AIR INFILTRATION @ 75Pa	+ 0.05 L/s/ms ² - 0.05 L/s/ms ²

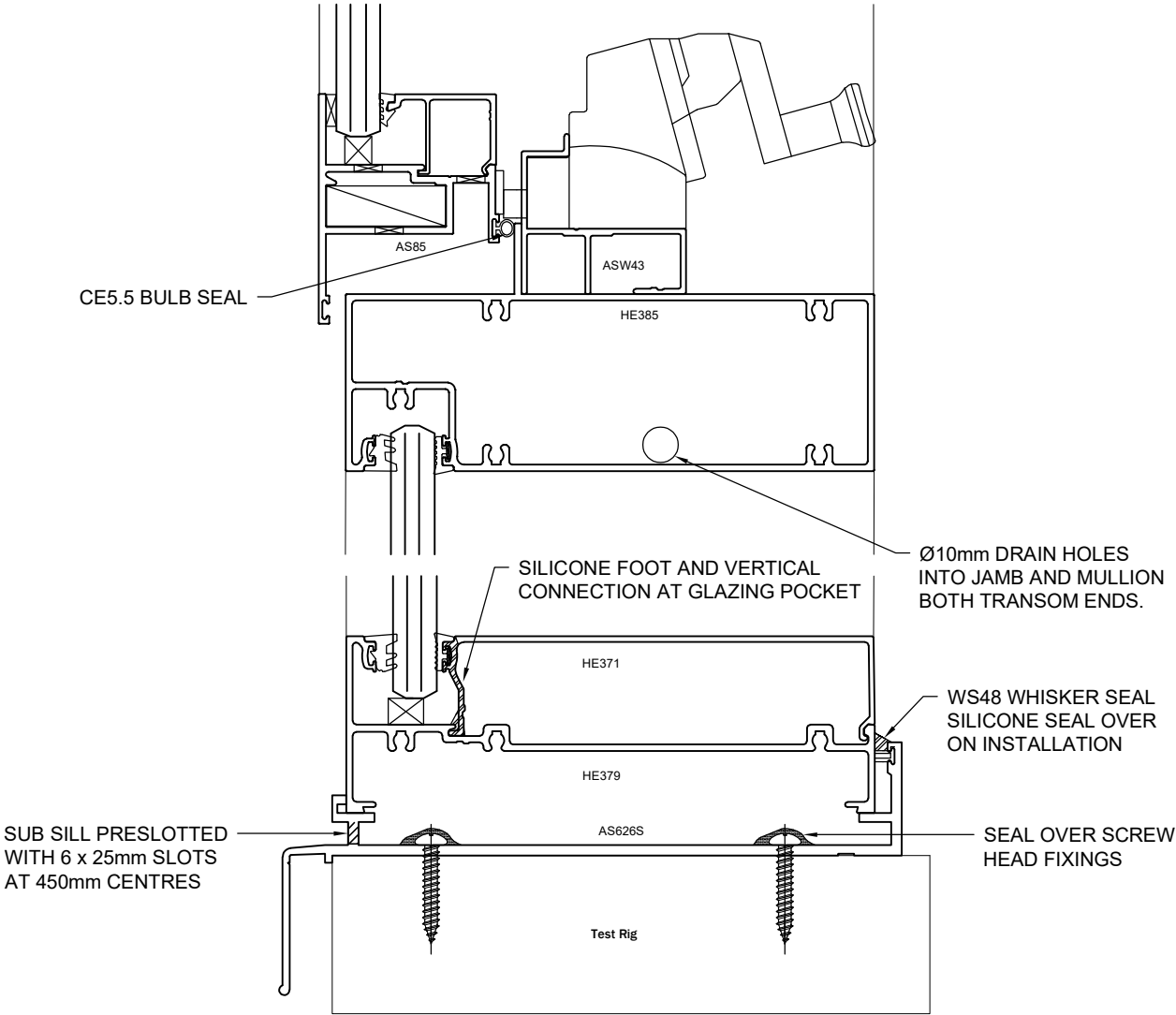


DISCLAIMER:
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4. Test Summary

AS2047 - Awning over Fixed

TEST REPORT:	AS17.319
SYSTEM CONFIGURATION	HUNTER EVO 150mm SG A/F WITH AS85 AWNING 1790 H x 1100 W AND HE385 TRANSOM
TEST SAMPLE SIZE	2700 H x 1100 W
SERVICEABILITY LOAD	+/- 2200 Pa
ULTIMATE LOAD	+/- 5140 Pa
WATER PENETRATION	664 Pa
AIR INFILTRATION @ 75Pa	+ 0.10 L/s/ms ² - 0.03 L/s/ms ²



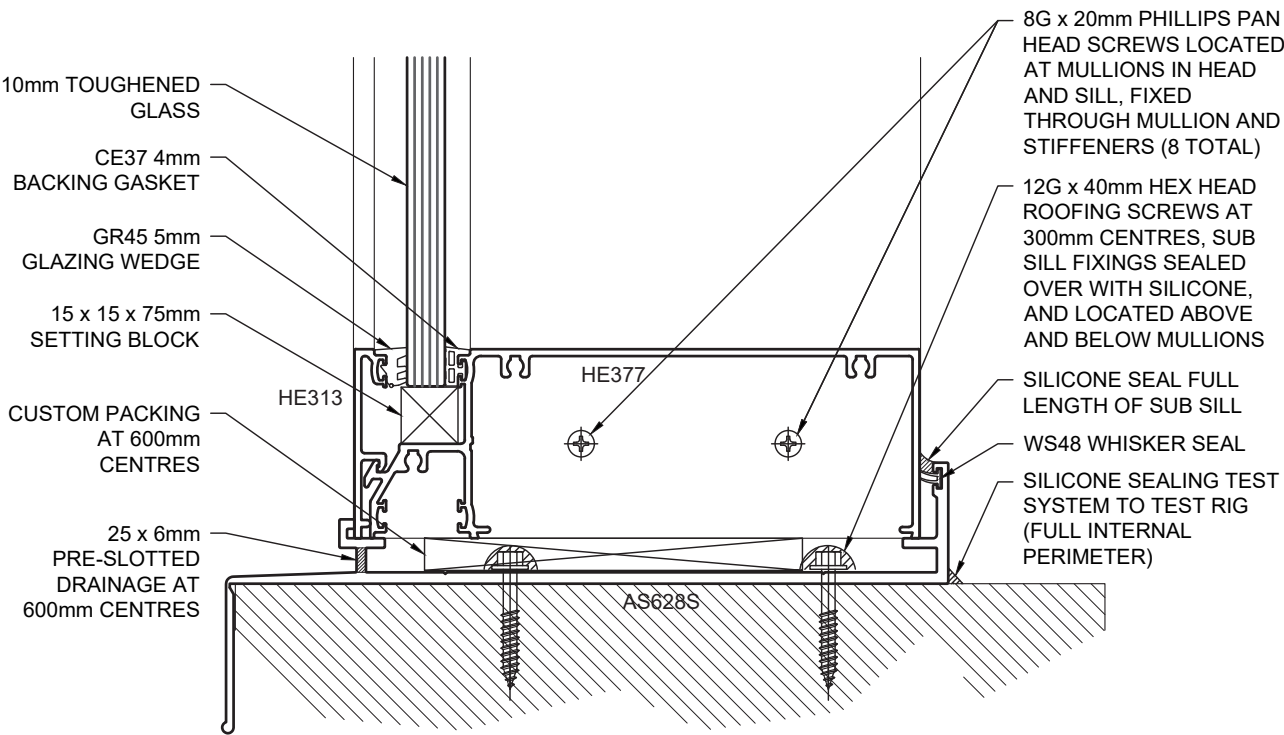
DISCLAIMER:

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4. Test Summary

AS2047 - Fixed/ Fixed

TEST REPORT:	OT24-220
SYSTEM CONFIGURATION	HUNTER EVO 150mm SG F/F HE382/HE383 and HE388/HE389 Mullions, AS628S Sub Sill
TEST SAMPLE SIZE	3215 H x 3020 W
SERVICEABILITY LOAD	+/- 2802 Pa
ULTIMATE LOAD	+/- 4001 Pa
WATER PENETRATION	840 Pa
AIR INFILTRATION @ 75Pa	+ 0.03 L/s/ms ² - 0.04 L/s/ms ²

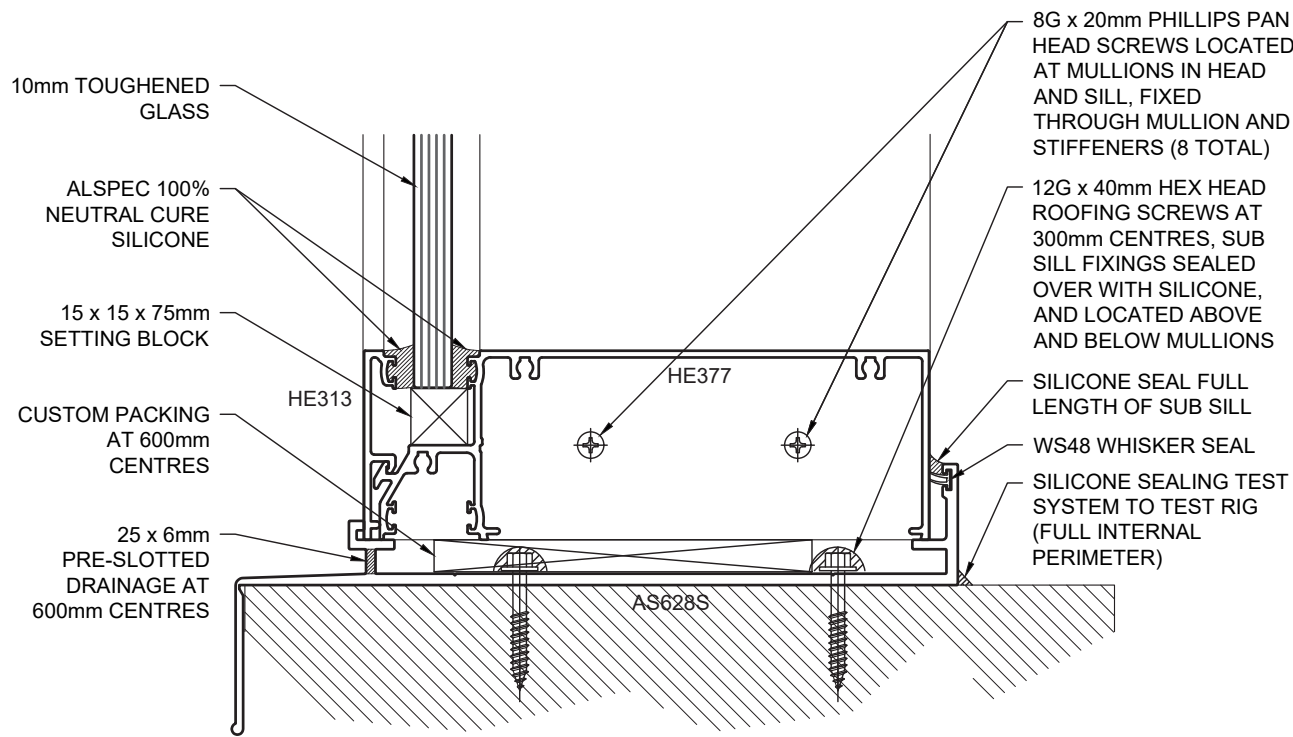


DISCLAIMER:
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4. Test Summary

AS2047 - Fixed/ Fixed

TEST REPORT:	OT24-221
SYSTEM CONFIGURATION	HUNTER EVO 150mm SG F/F HE382/HE383 and HE388/HE389 Mullions, AS628S Sub Sill, Silicone Sealed Glazing
TEST SAMPLE SIZE	3215 H x 3020 W
SERVICEABILITY LOAD	+/- 2802 Pa
ULTIMATE LOAD	+/- 4000 Pa
WATER PENETRATION	840 Pa
AIR INFILTRATION @ 75Pa	+ 0.11 L/s/ms ² - 0.04 L/s/ms ²



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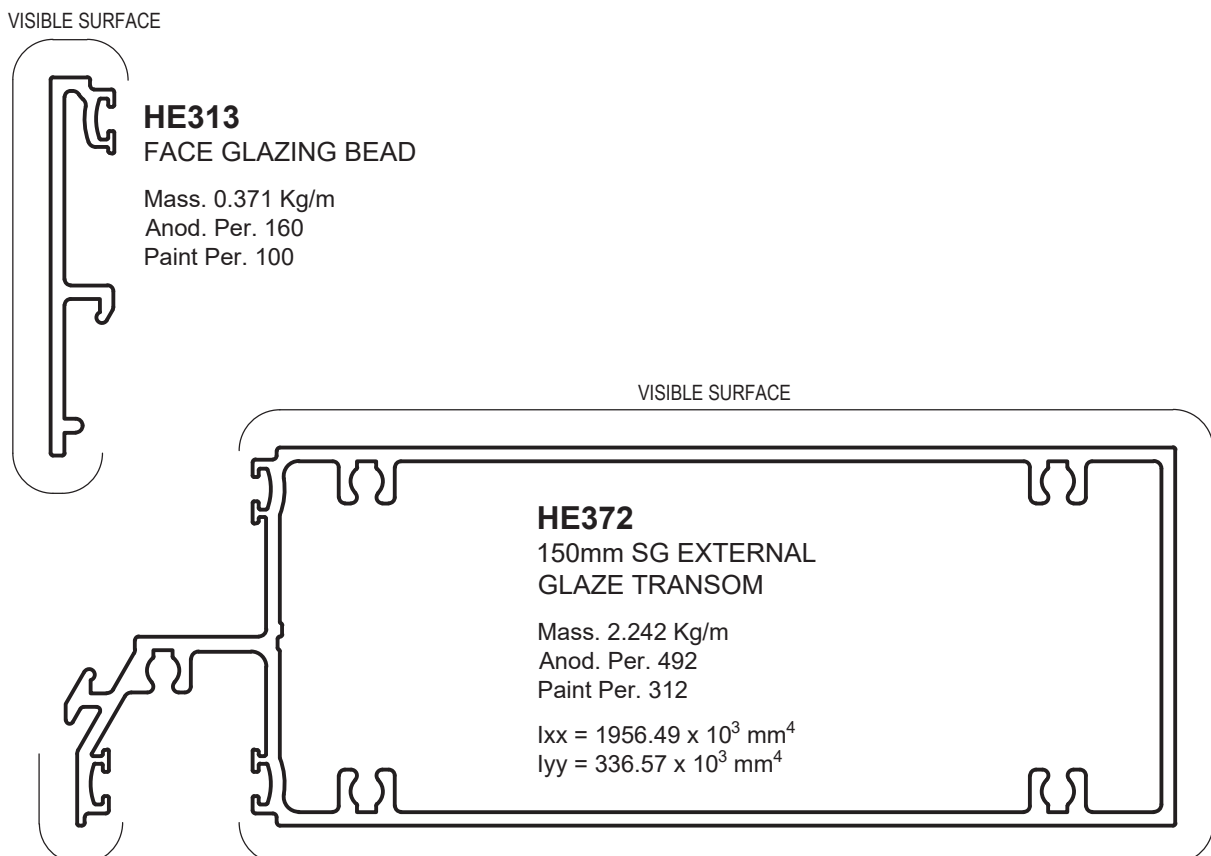
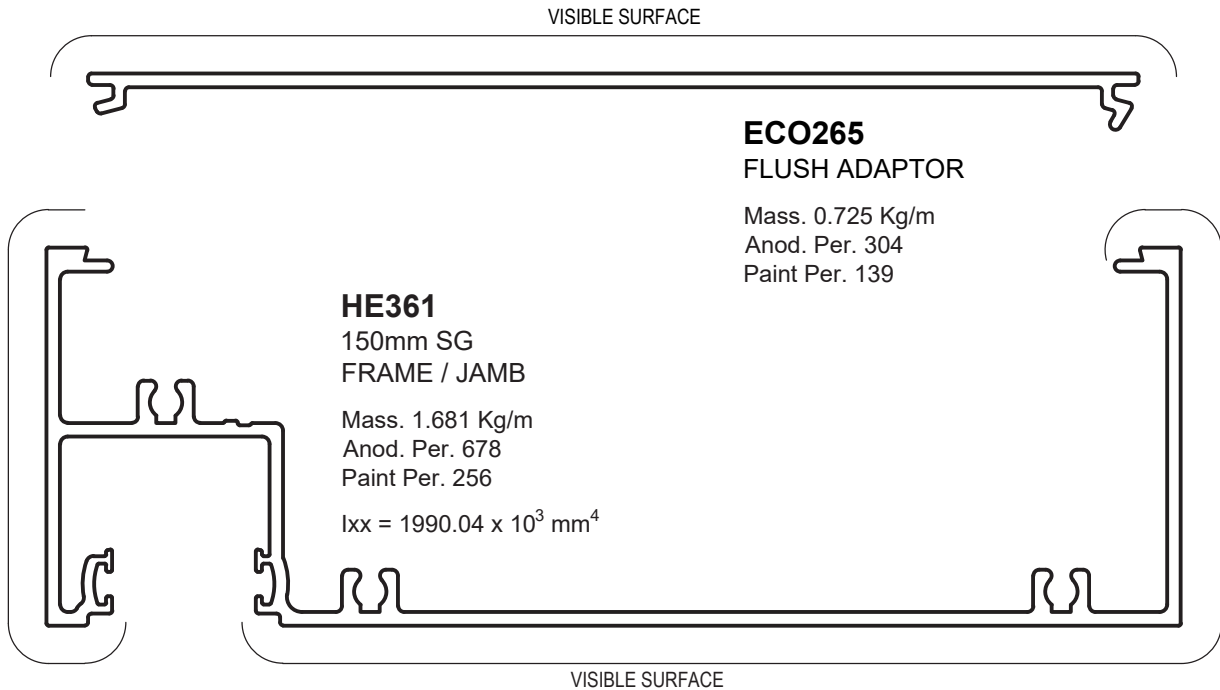
4. Test Summary

Acoustic - AS/NZS ISO 717.1

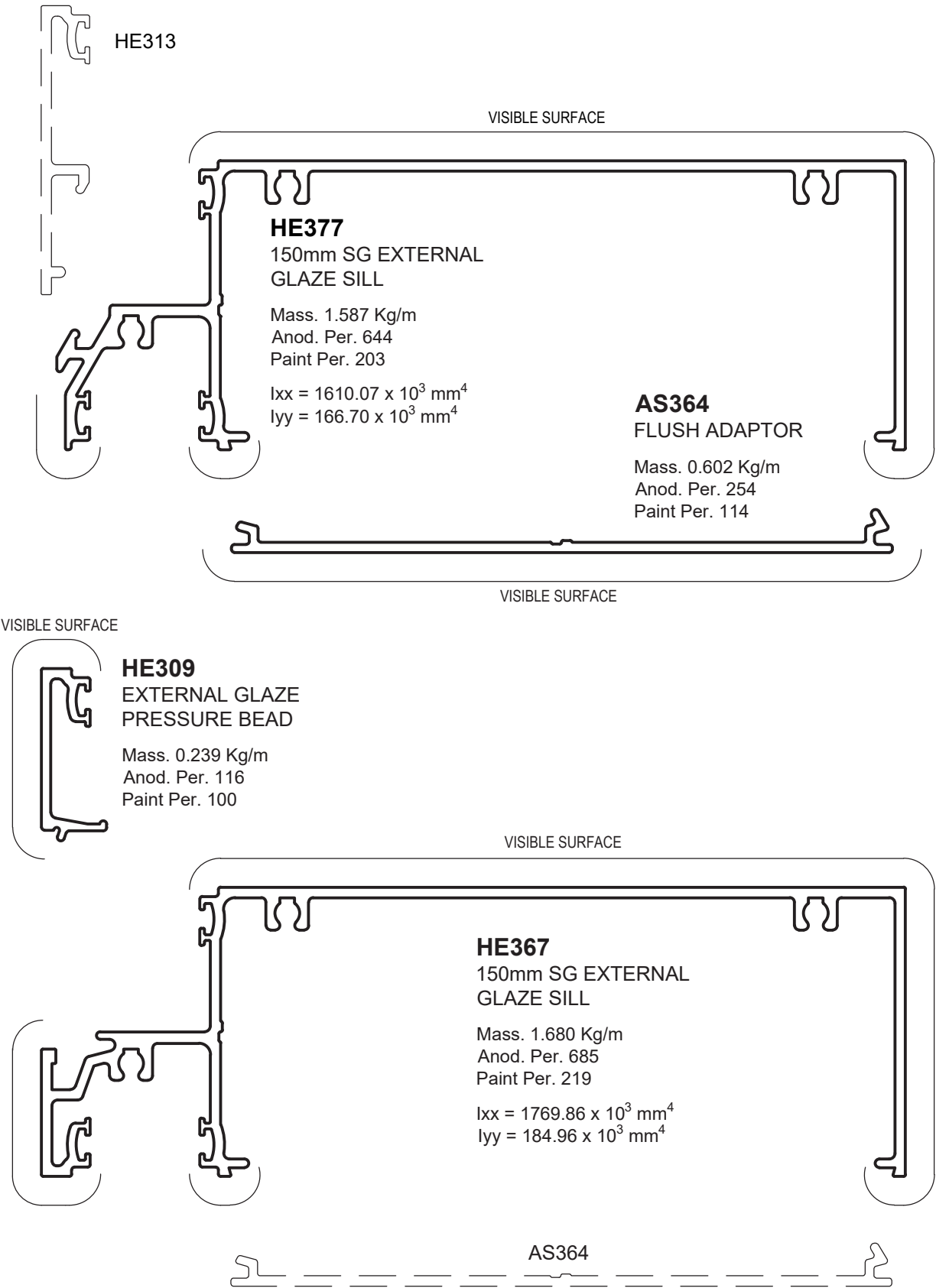
TEST REPORT	PRODUCT DESCRIPTION	SIZE	GLASS	Rw
4863-R2	HUNTER EVO 150mm FIXED	1.2m (H) x 1.8m (W)	12.4mm STORMSHIELD GEN 2	34
4863-R14	HUNTER EVO 150mm FIXED/FIXED	2.1m (H) x 1.8m (W)	6.38mm CLEAR LAMINATE	33
4863-R18	HUNTER EVO 150mm WITH AS85 AWNING/FIXED OVER FIXED/FIXED	2.1m (H) x 1.8m (W)	6.38mm CLEAR LAMINATE	33
4863-R1	HUNTER EVO 150mm WITH AS90 JOCKEY SASH AND JAIL GUARD	1.2m (H) x 1.8 (W)	6.38mm LAMINATE/110mm AIR/14.5mm JAIL GUARD	43

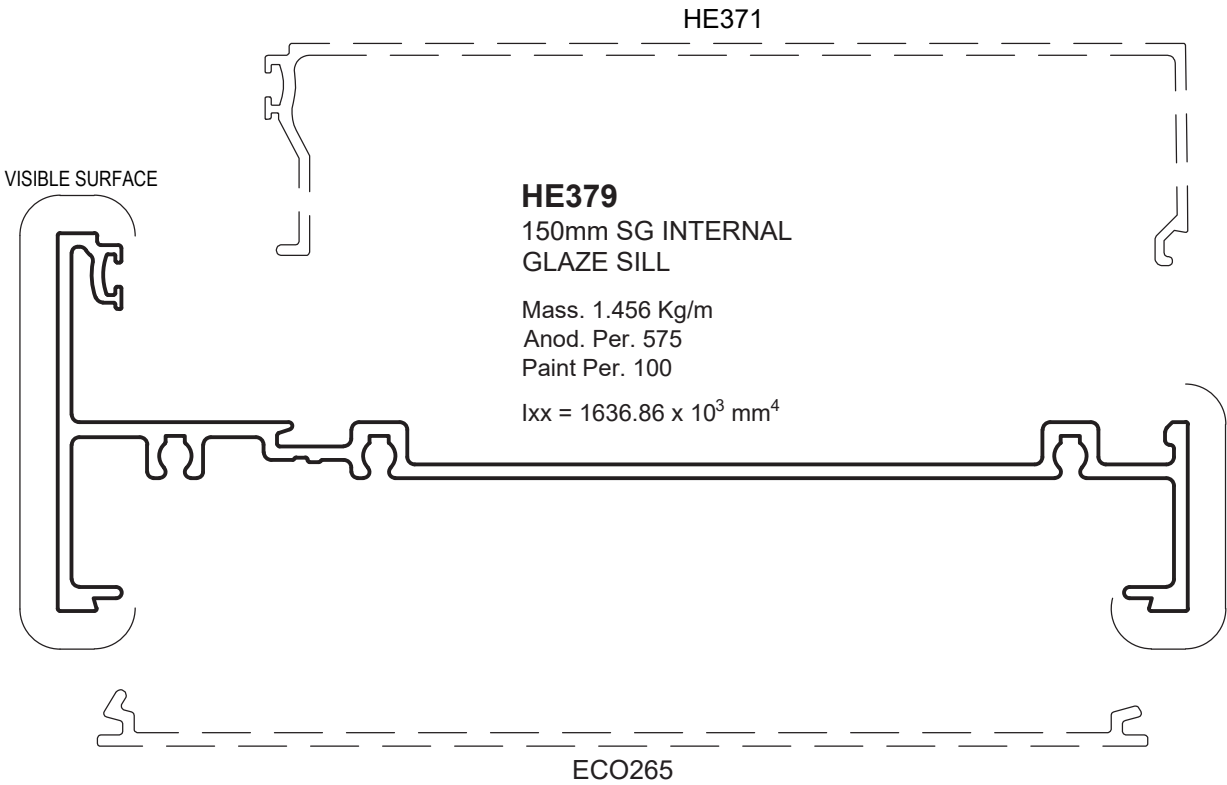
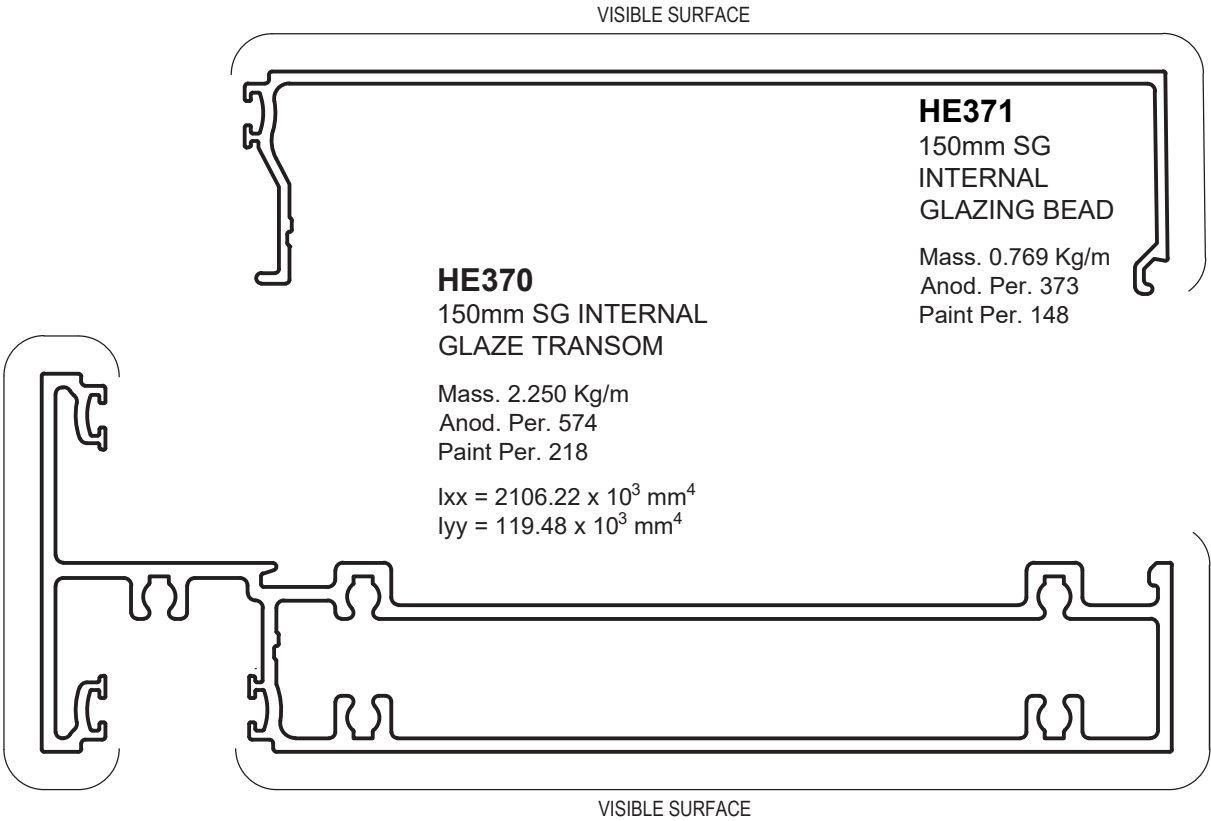
Impact - AS/NZS1170.2 - 2002

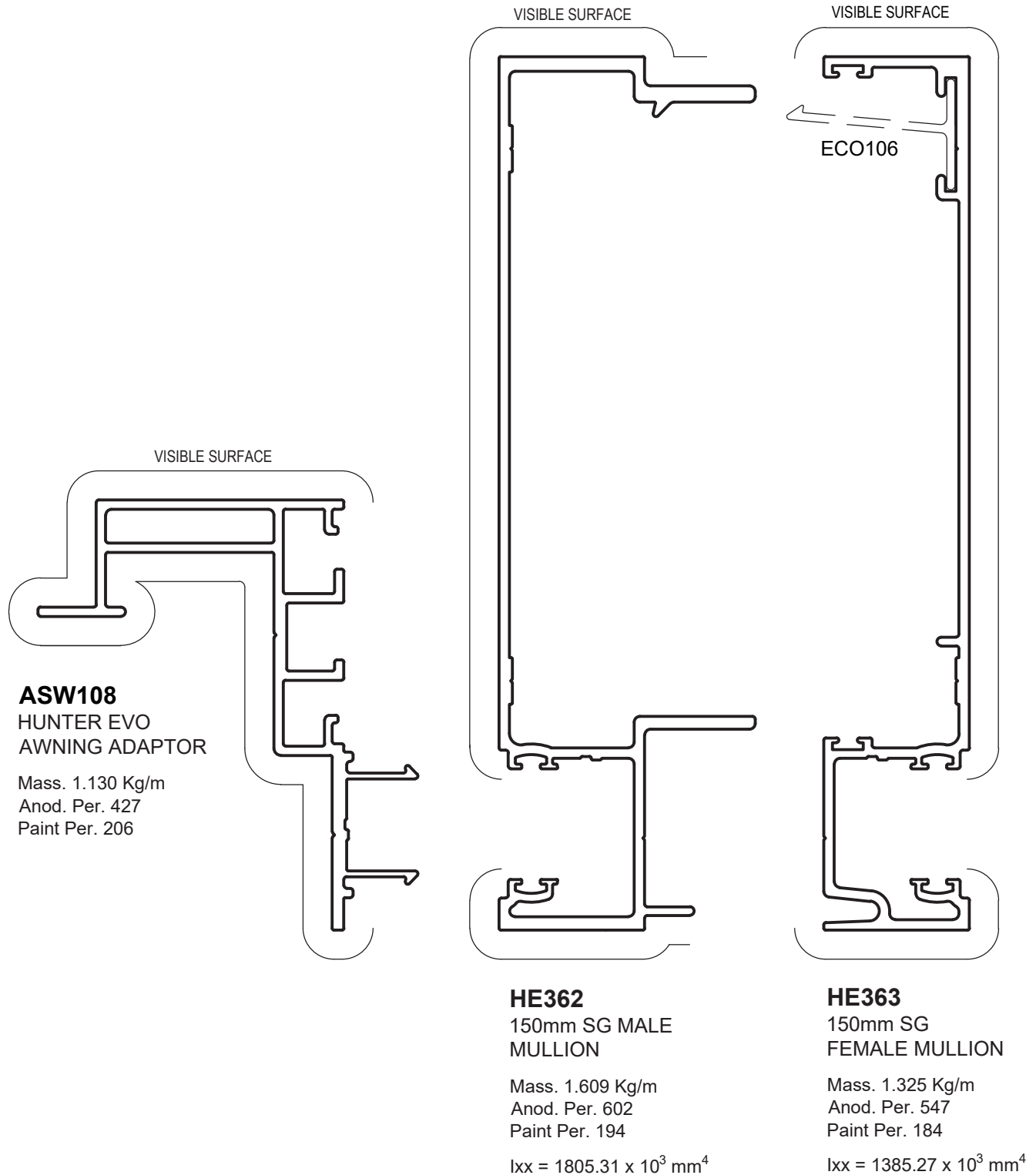
TEST REPORT	PRODUCT DESCRIPTION	SIZE	RESULT
INZ36934-08	HUNTER EVO 150mm, 4 kg TIMBER 38m/s USING 12.4mm GLASSHAPE STORMSHIELD CYCLONE GLASS/ 8mm STEEL BALL BEARING	2.4m (H) x 2.4m (W)	38 m/s

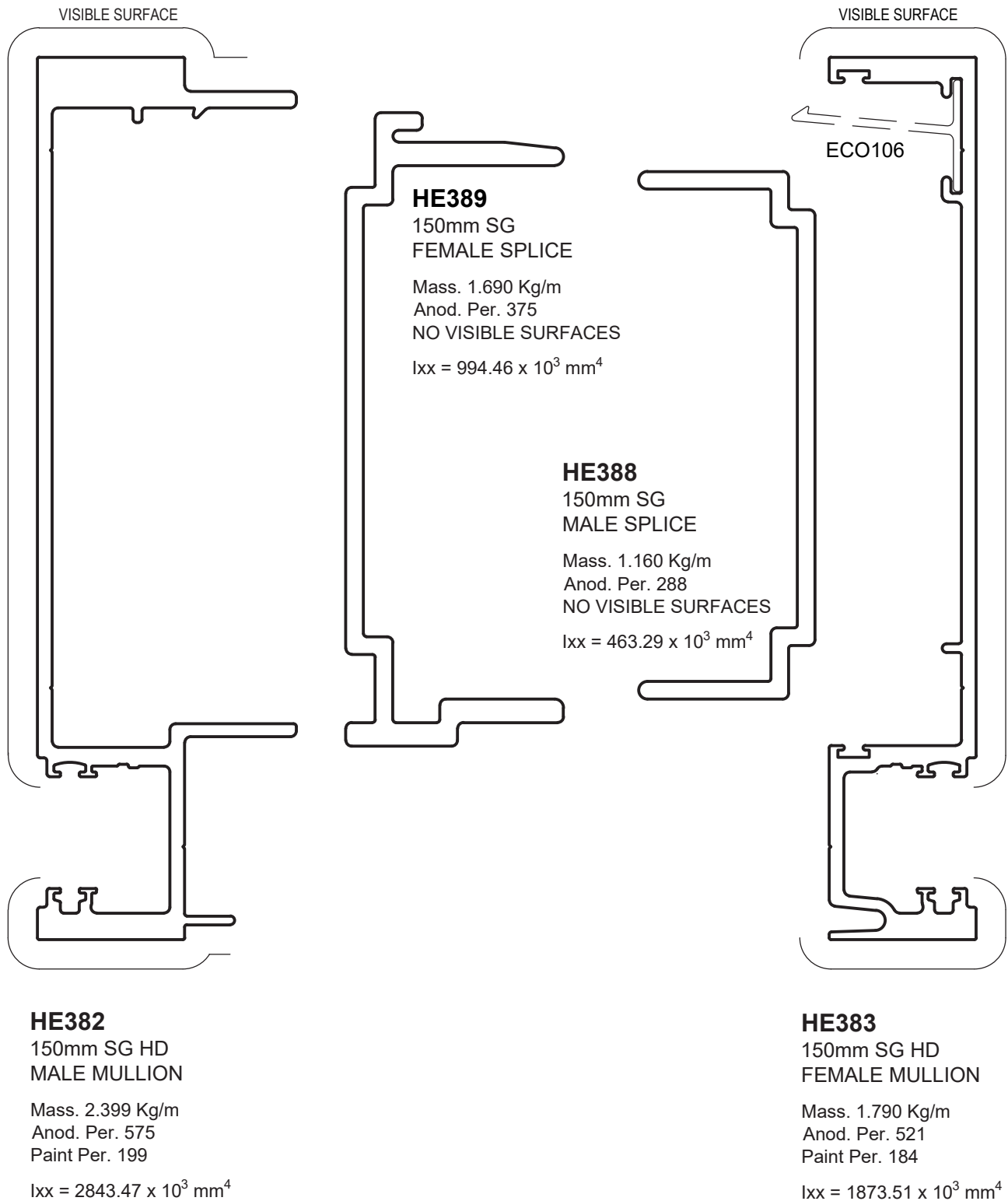


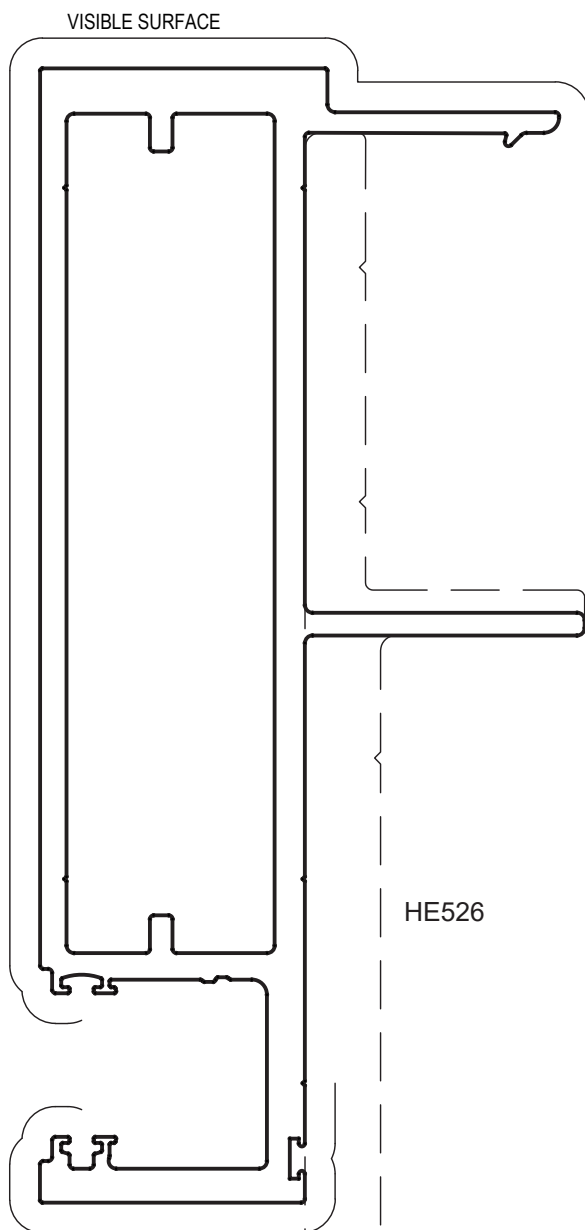
5. Extrusions









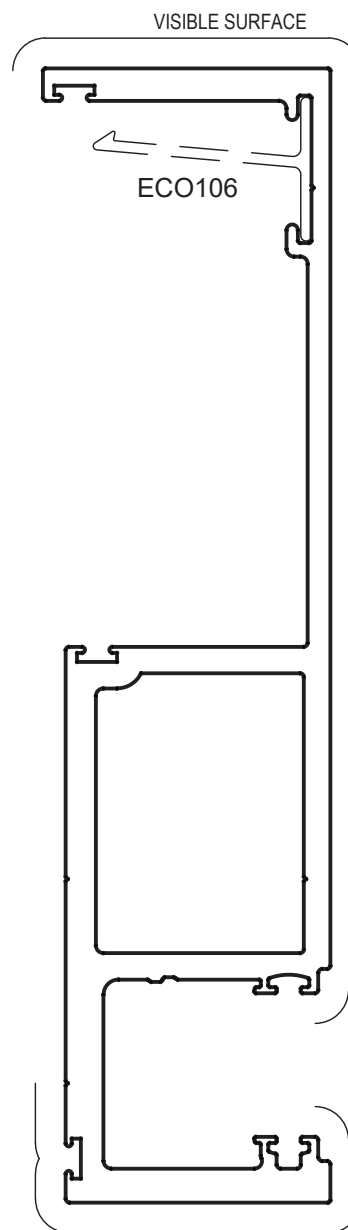


HE364

150mm MALE SG HOLLOW
MULLION 6106 T6

Mass. 4.642 Kg/m
Anod. Per. 609
Paint Per. 288

$I_{xx} = 4202.52 \times 10^3 \text{ mm}^4$

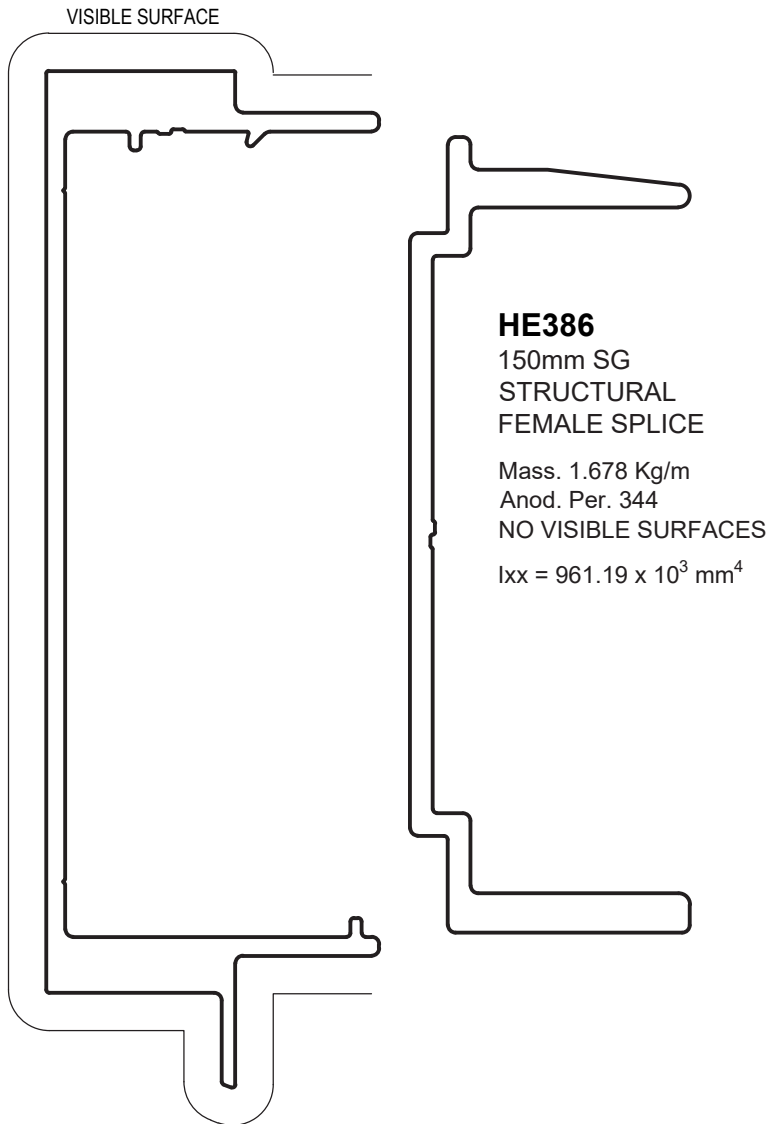


HE365

150mm FEMALE SG HOLLOW
MULLION 6106 T6

Mass. 3.226 Kg/m
Anod. Per. 569
Paint Per. 221

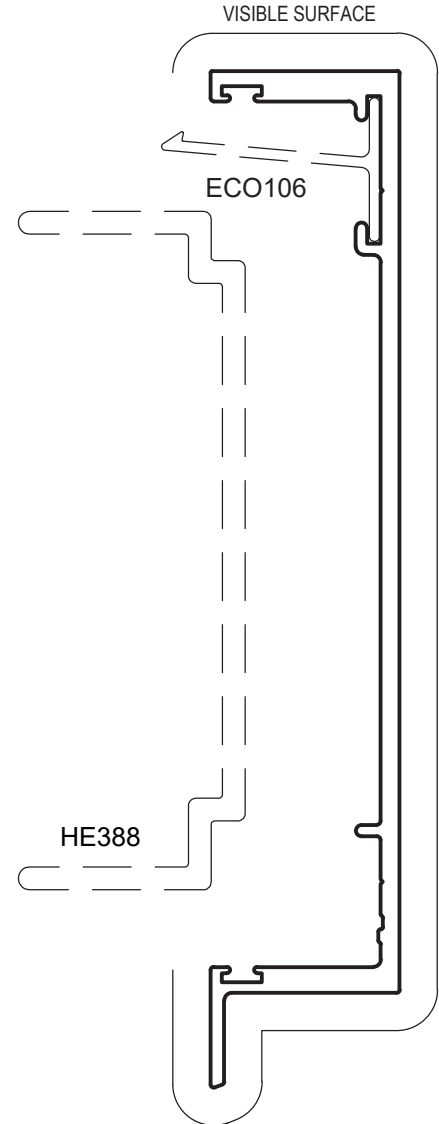
$I_{xx} = 2761.04 \times 10^3 \text{ mm}^4$

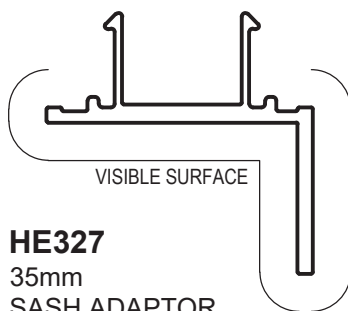
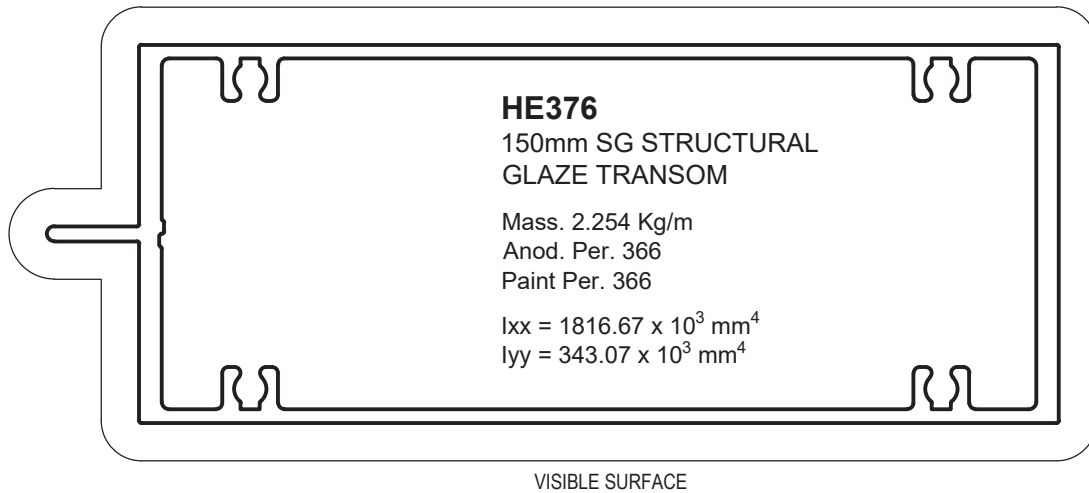


HE375
150mm SG
STRUCTURAL GLAZE
MALE MULLION

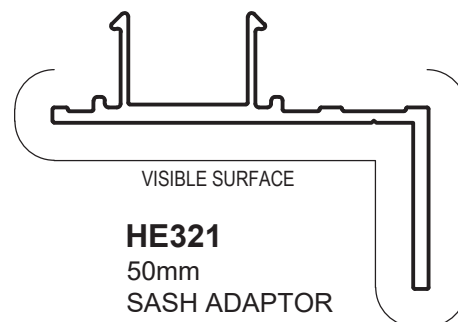
Mass. 2.111 Kg/m
Anod. Per. 447
Paint Per. 241

$I_{xx} = 1919.52 \times 10^3 \text{ mm}^4$

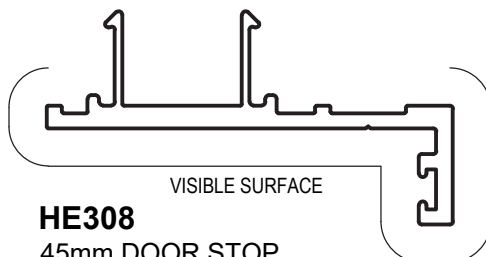




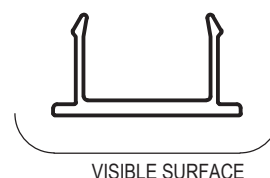
Mass. 0.395 Kg/m
Anod. Per. 171
Paint Per. 100



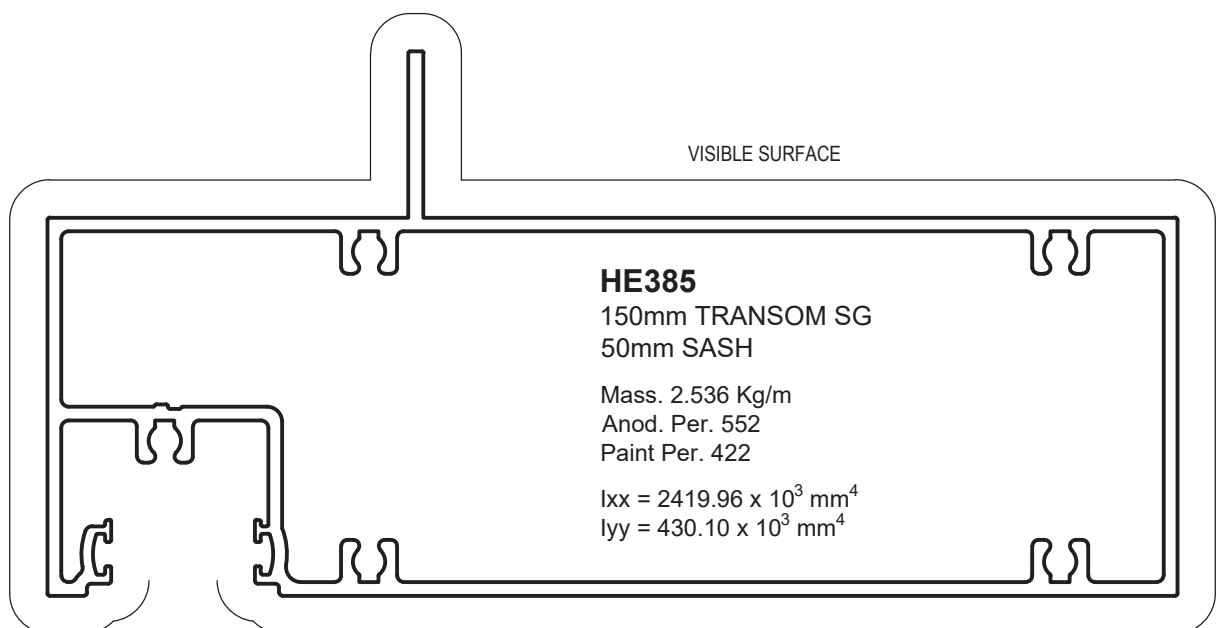
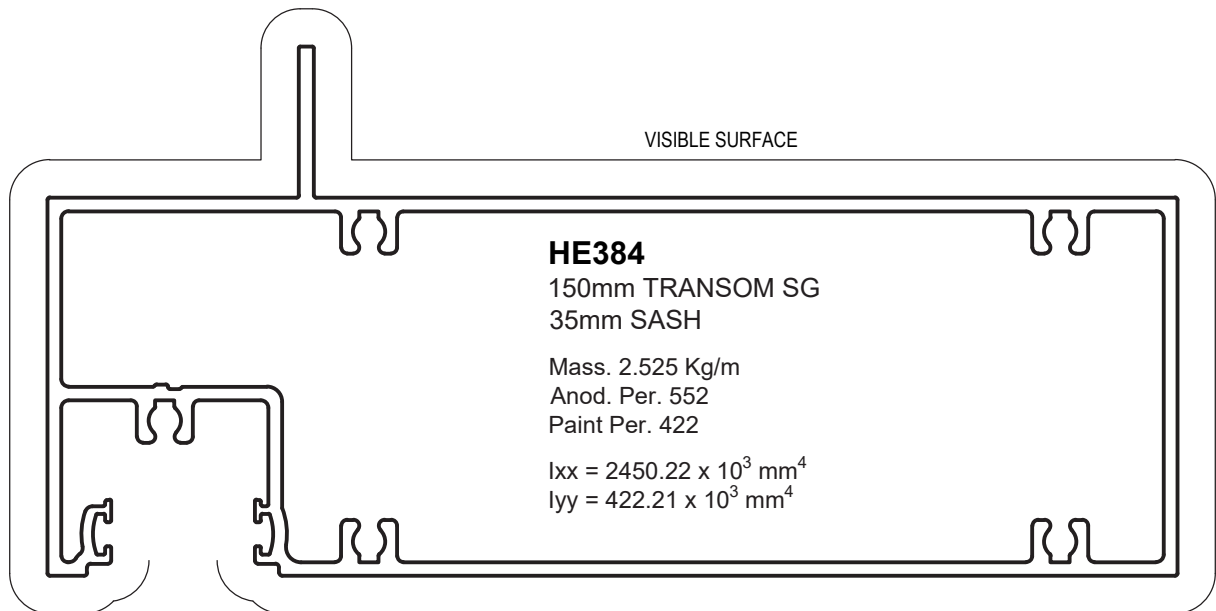
Mass. 0.470 Kg/m
Anod. Per. 205
Paint Per. 100



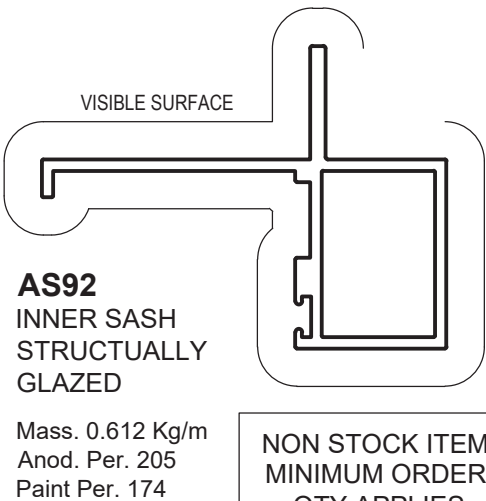
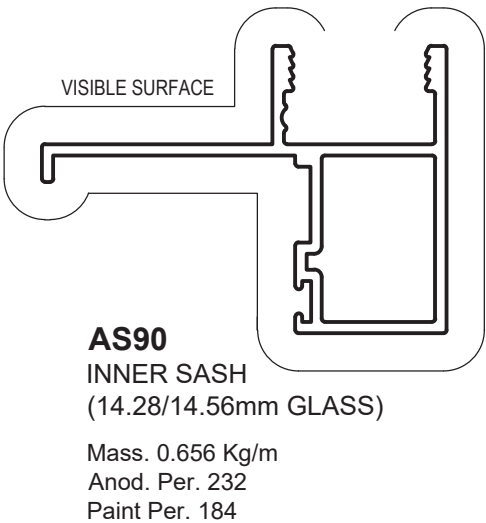
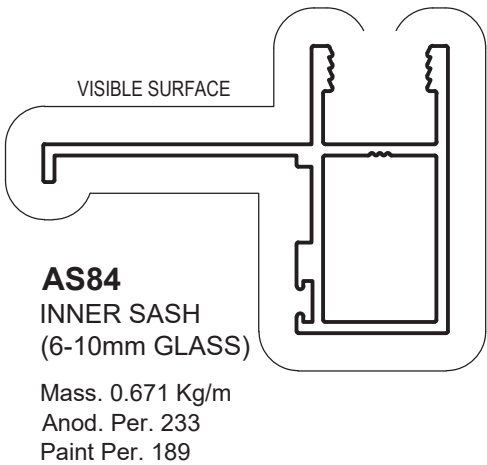
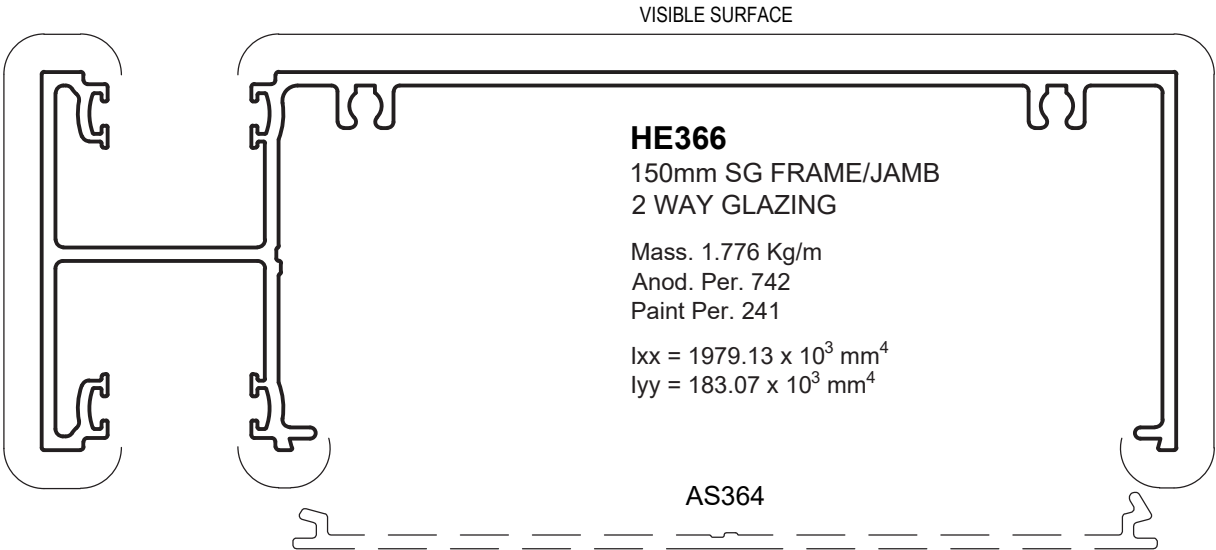
Mass. 0.579 Kg/m
Anod. Per. 212
Paint Per. 100



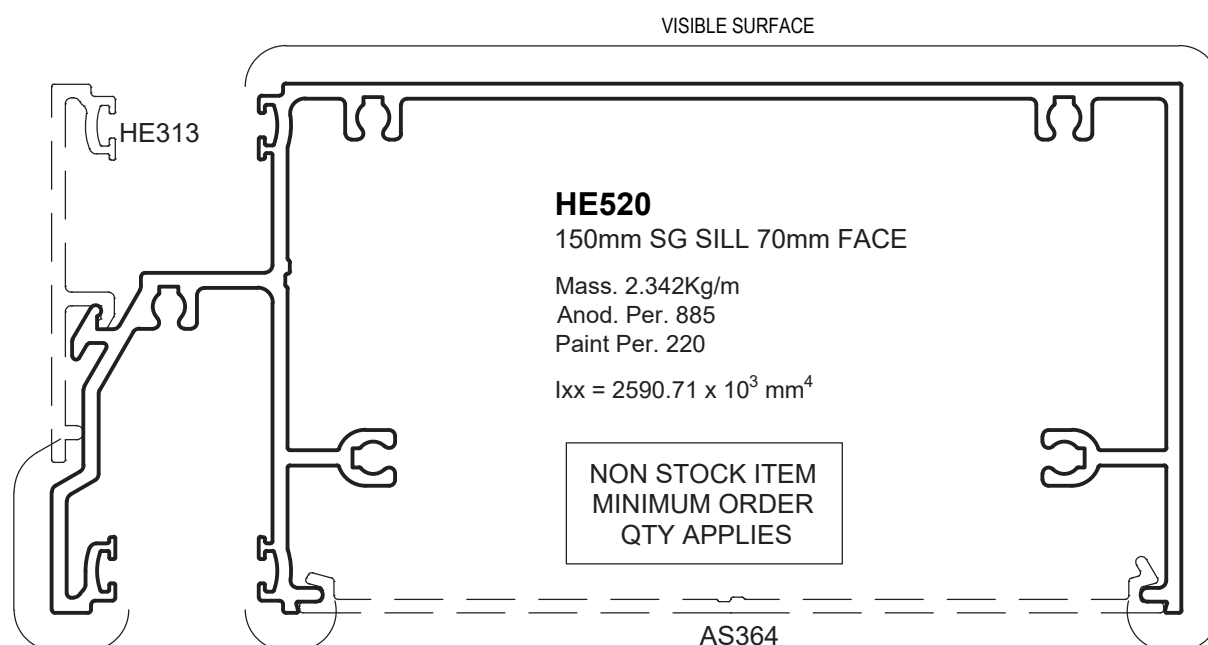
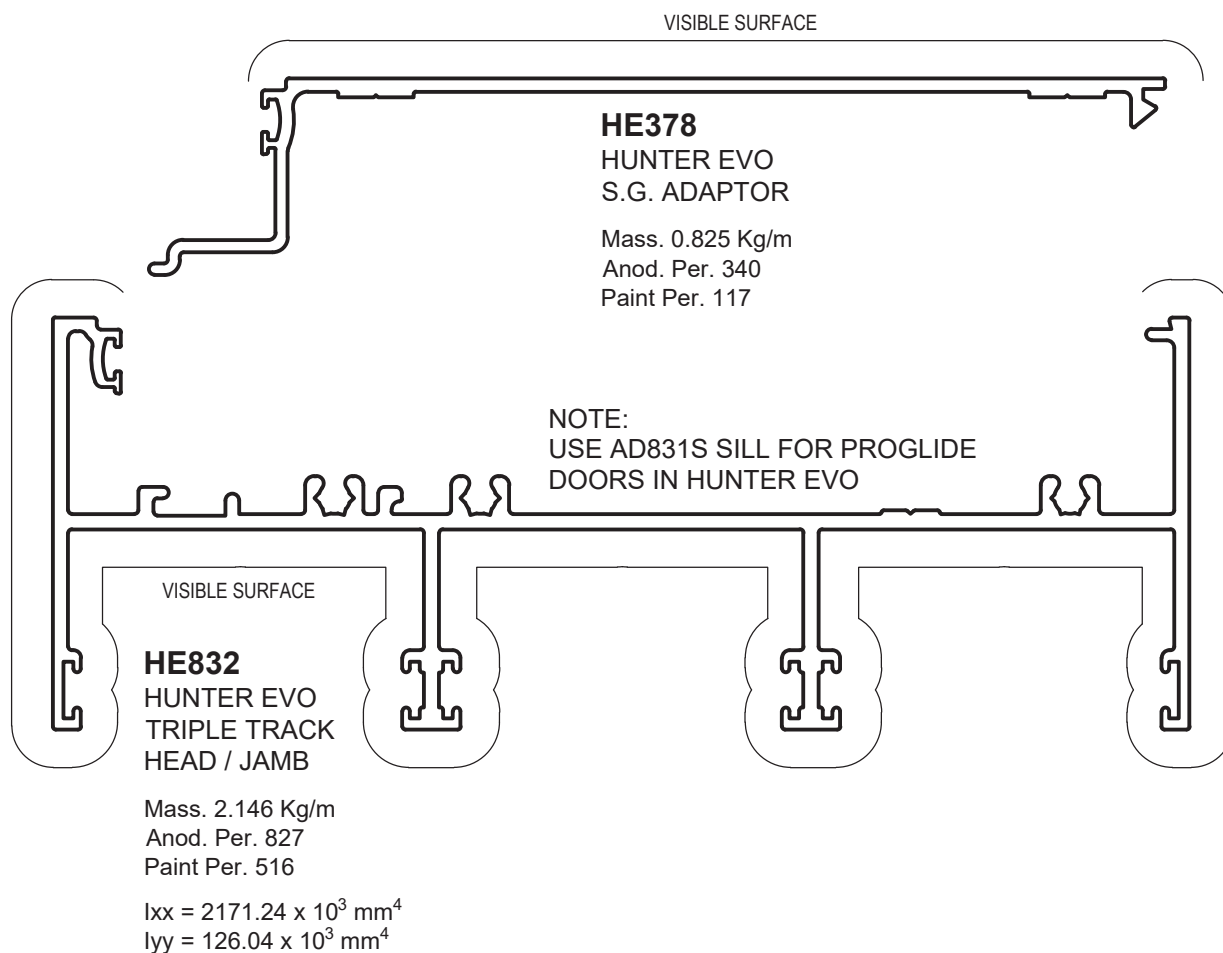
Mass. 0.181 Kg/m
Anod. Per. 100
Paint Per. 100



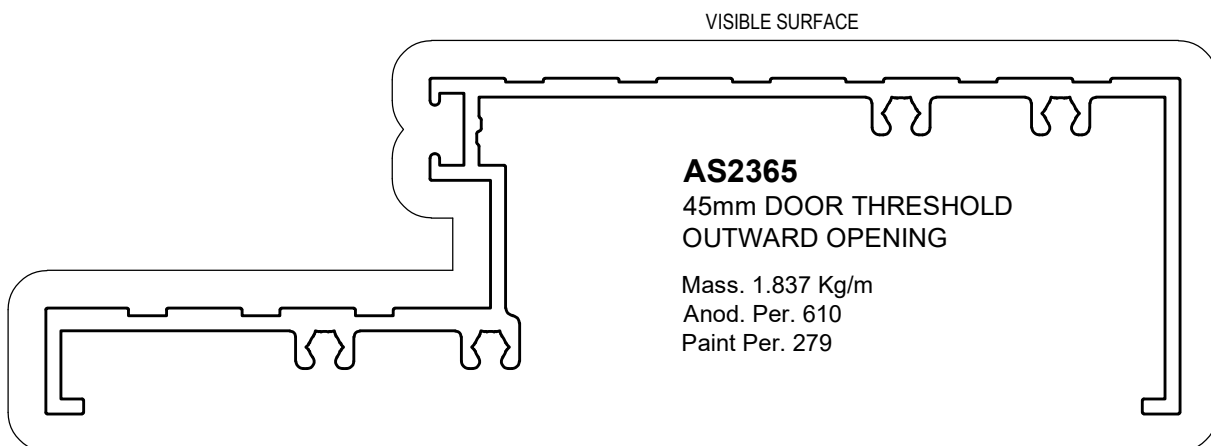
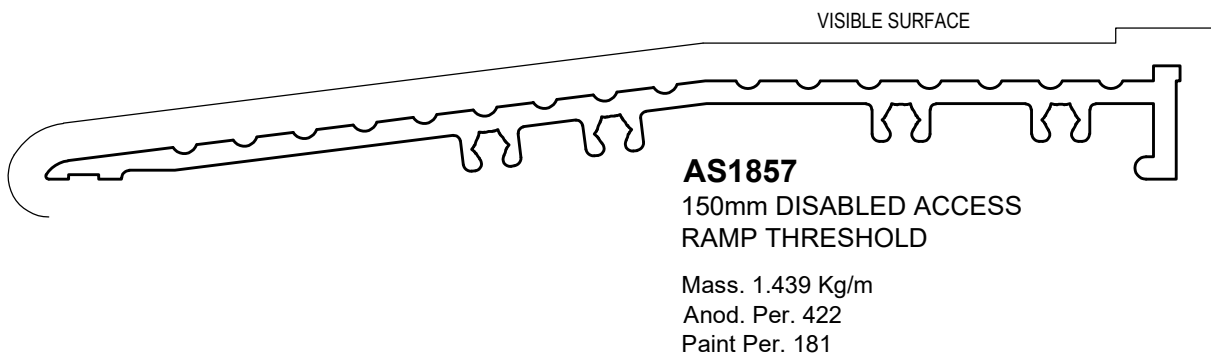
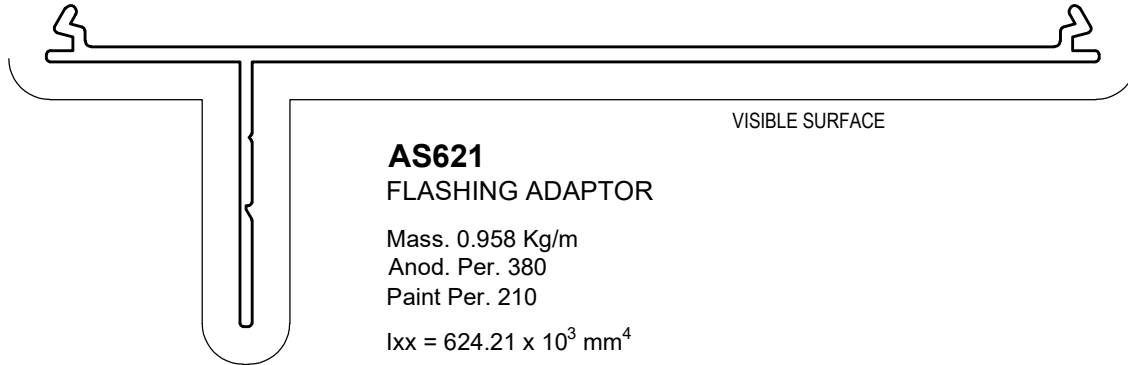
5. Extrusions



NON STOCK ITEM
MINIMUM ORDER
QTY APPLIES



5. Extrusions





6. Hardware & Components

Glazing Wedges

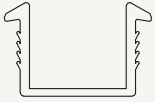
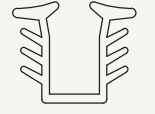
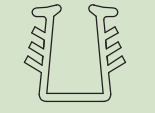
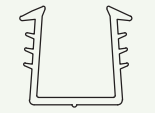
IMAGE	TO SUIT GAP	MATERIAL	PART #	DESCRIPTION
	3mm	PVC	1313055	GR43 GLAZING WEDGE (BROWN) (3mm GAP) PVC x 200m ROLL
		S/PRENE	1313063	GR43S GLAZING WEDGE (BROWN) (3mm GAP) S/PRENE x 200m ROLL
	4mm	PVC	1313056	GR44 GLAZING WEDGE (WHITE) (4mm GAP) PVC x 200m ROLL
		S/PRENE	1313064	GR44S GLAZING WEDGE (WHITE) (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

Glazing Channels

IMAGE	MATERIAL	PART #	DESCRIPTION
	PVC	1313077	GR51 GLAZING CHANNEL JOCKEY SASH (14.28mm GLASS) x 100m ROLL
	PVC	1376033	GR60 GLAZING CHANNEL (5mm GLASS) x 100m ROLL
	PVC	1376044	GR61 GLAZING CHANNEL (6- 6.38mm GLASS) x 100m ROLL
	PVC	1376029	GR62 GLAZING CHANNEL (8-8.38mm GLASS) x 100m ROLL
	PVC	1376035	GR63 GLAZING CHANNEL (10-10.38mm GLASS) 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
	1376300	BLACK (034)	HB1 BULB SEAL x 100m
	1378182	BLACK (034)	HE007 6.4mm x 9mm SPACER TAPE x 15m
	1378183	BLACK (034)	HE008 6.4mm x 12mm SPACER TAPE x 15m
	1377407	BLACK (034) GREY (036)	PS11 11mm FRINGE PILE x 1m

Fasteners

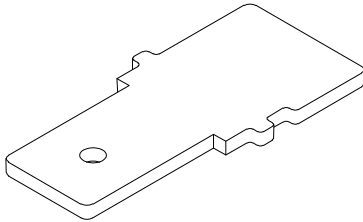
SCREWS			
PART #	HEAD	DESCRIPTION	LOCATION
1382644	SQUARE #2	10g x 1 (25mm) 304SS SQ #2 PAN S/TAP SCREW x 1000	MAIN FRAME
1382659	SQUARE #2	10g x 2 (51mm) 304SS SQ #2 CSK S/TAP SCREW x 1000	MULLION

Frame Joint Gaskets

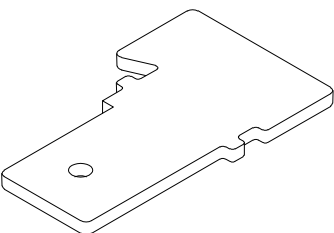
PART #	DESCRIPTION	FINISH
1385509	FJG50 FRAME JOINT GASKET PVC FOAM TAPE 50 x 1.6mm 45.7m	BLACK (034)
		GREY (036)

6. Hardware & Components

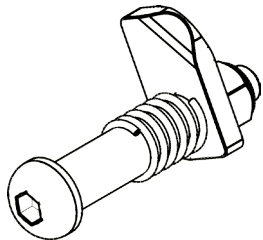
Accessories



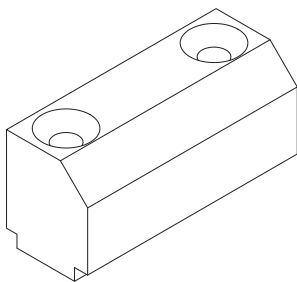
HE001 POCKET STOP (TO SUIT HE361/HE362)	
PART	1378194
FINISH	NOT SPECIFIED (099)
QTY	BAG OF 50



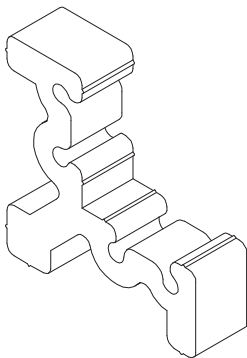
HE002 POCKET STOP (TO SUIT MULLION)	
PART	1378195
FINISH	NOT SPECIFIED (099)
QTY	BAG OF 50



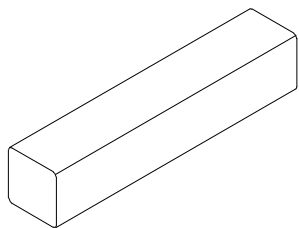
MURRAY INNER SASH LOCK - M870361	
PART	1309043
FINISH	NOT SPECIFIED (099)
QTY	EACH



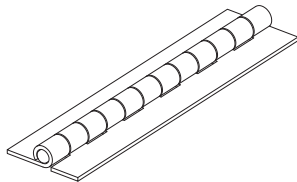
DN24 RIDE UP BLOCK	
PART	1309608
FINISH	BLACK (034)
QTY	EACH



CS84 CNR STAKE TO SUIT AS84/ AS90/AS92	
PART	1379017
FINISH	NOT SPECIFIED (099)
QTY	EACH

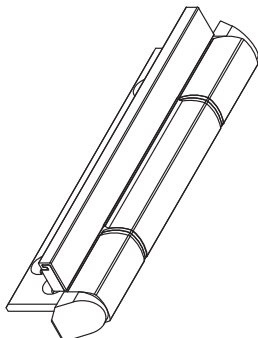


SETTING BLOCK 15x15x75mm	
PART	1376735
FINISH	BLACK (034)
QTY	BAG OF 50



Note: No supplier specifications. To be used at fabricators discretion

CONTINUOUS HINGE WITH/ WITHOUT HOLES WINDEYER 3215S24 x 2.4m	
PART	1364030 WITH HOLE 1364031 NO HOLE
FINISH	SATIN S/STEEL (0A6)
QTY	EACH



Max weight is 15kg per hinge

A13025 ALUMINIUM ANTI- LIGATURE HINGE CONCEALED FACE FIX	
PART	1374001
FINISH	BLACK (034)
QTY	EACH



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

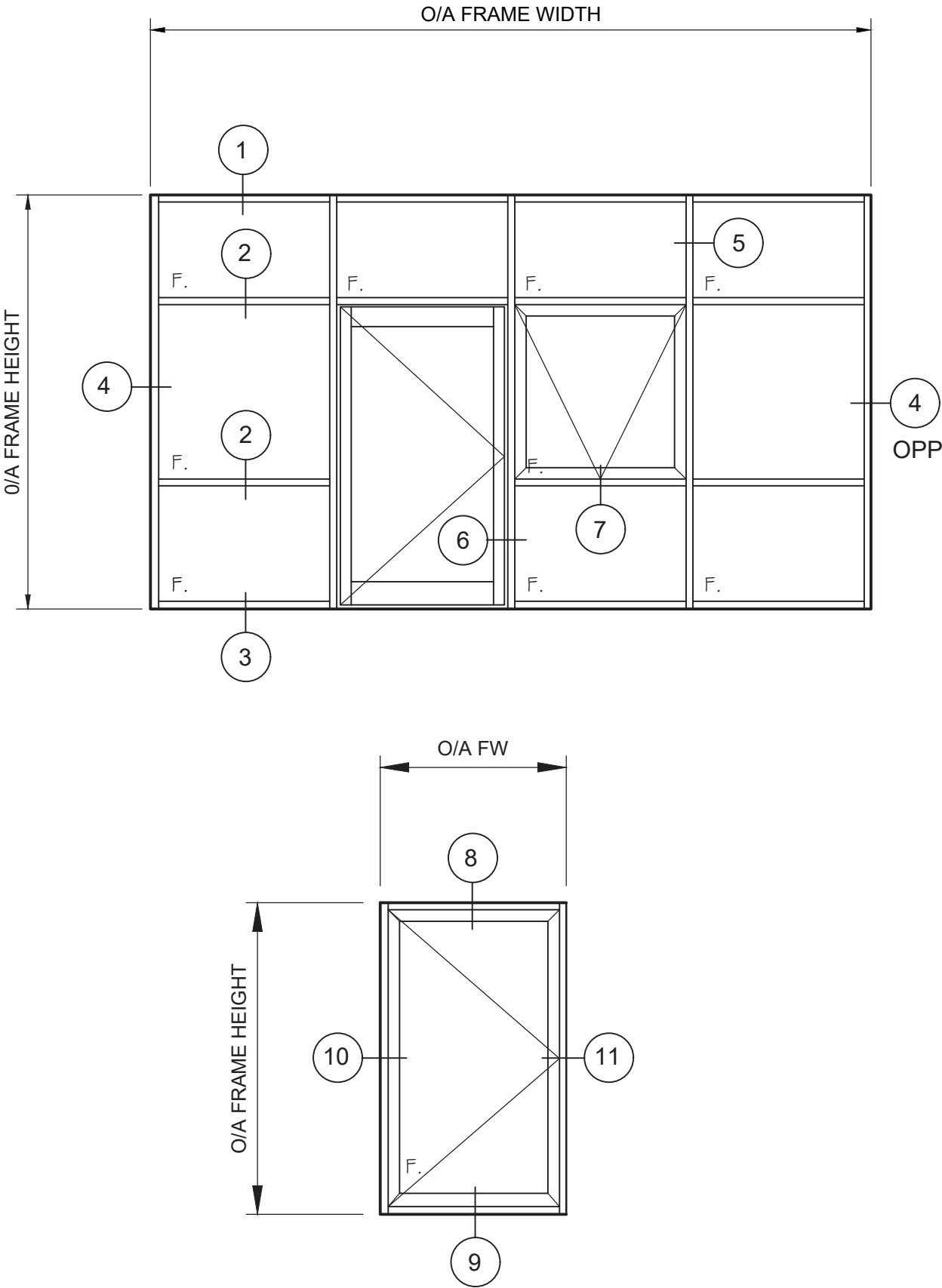
*For more information on silicones,
please refer to Alspec Silicone Brochure.

6. Hardware & Components

Silicone Product Codes

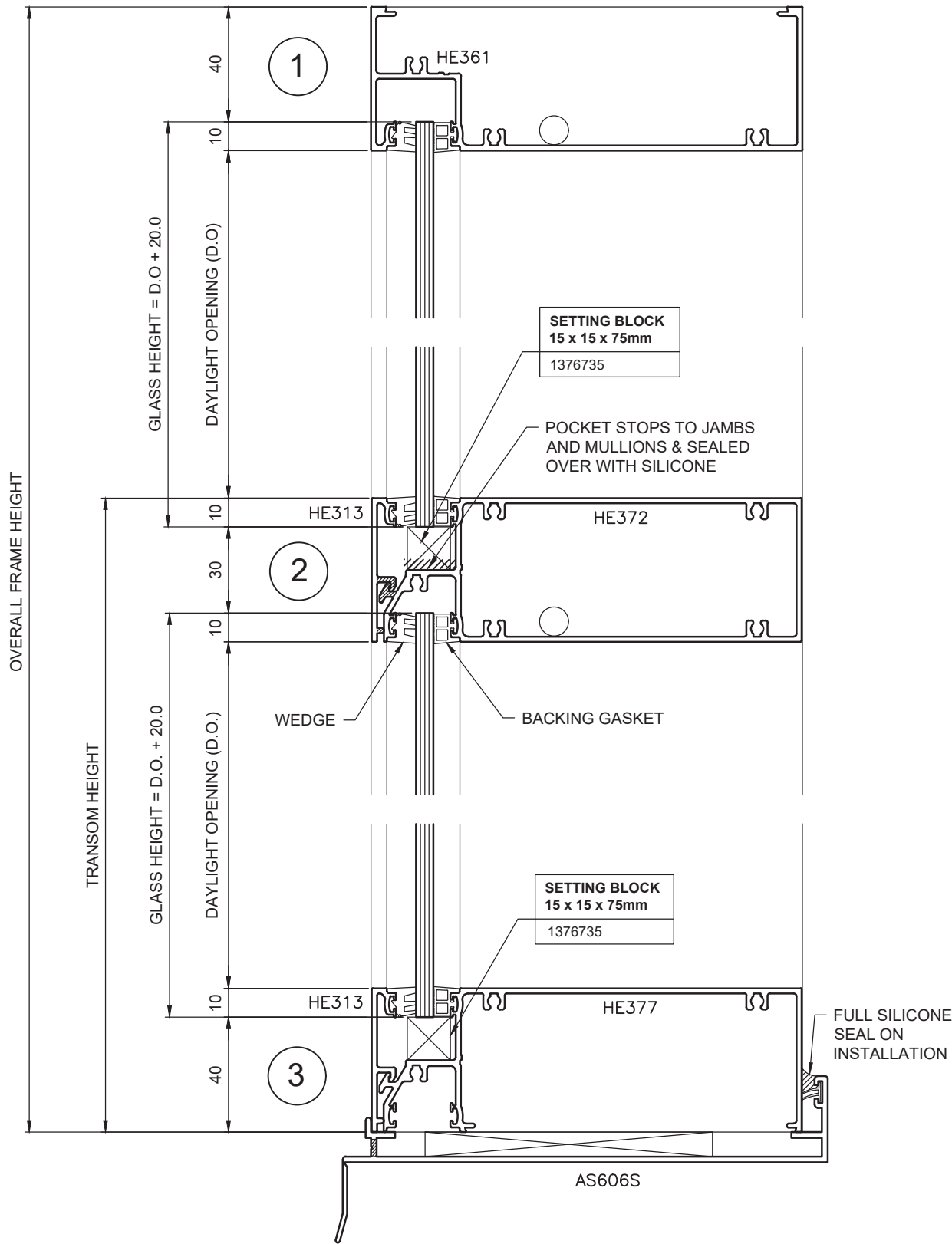
Product Category	Item No.	Alspec Part No. Code	Description	Finish	Pack
ALSPEC 100%	1	1386113	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	ALMOND IVORY	CARTRIDGE
	2	1386114	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	ALUMINIUM	CARTRIDGE
	3	1386105	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	BLACK	CARTRIDGE
	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
	27	1386124	ALSPEC D60 SILICONE x 310g CAT	WHITE	CARTRIDGE
ALSPEC HYBRID PU	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
	33	1386129	ALSPEC HYBRID PU x 600ml SAU	WHITE	SAUSAGE
ALSPEC WET AREA	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

7. Typical Elevation



8. Typical Details

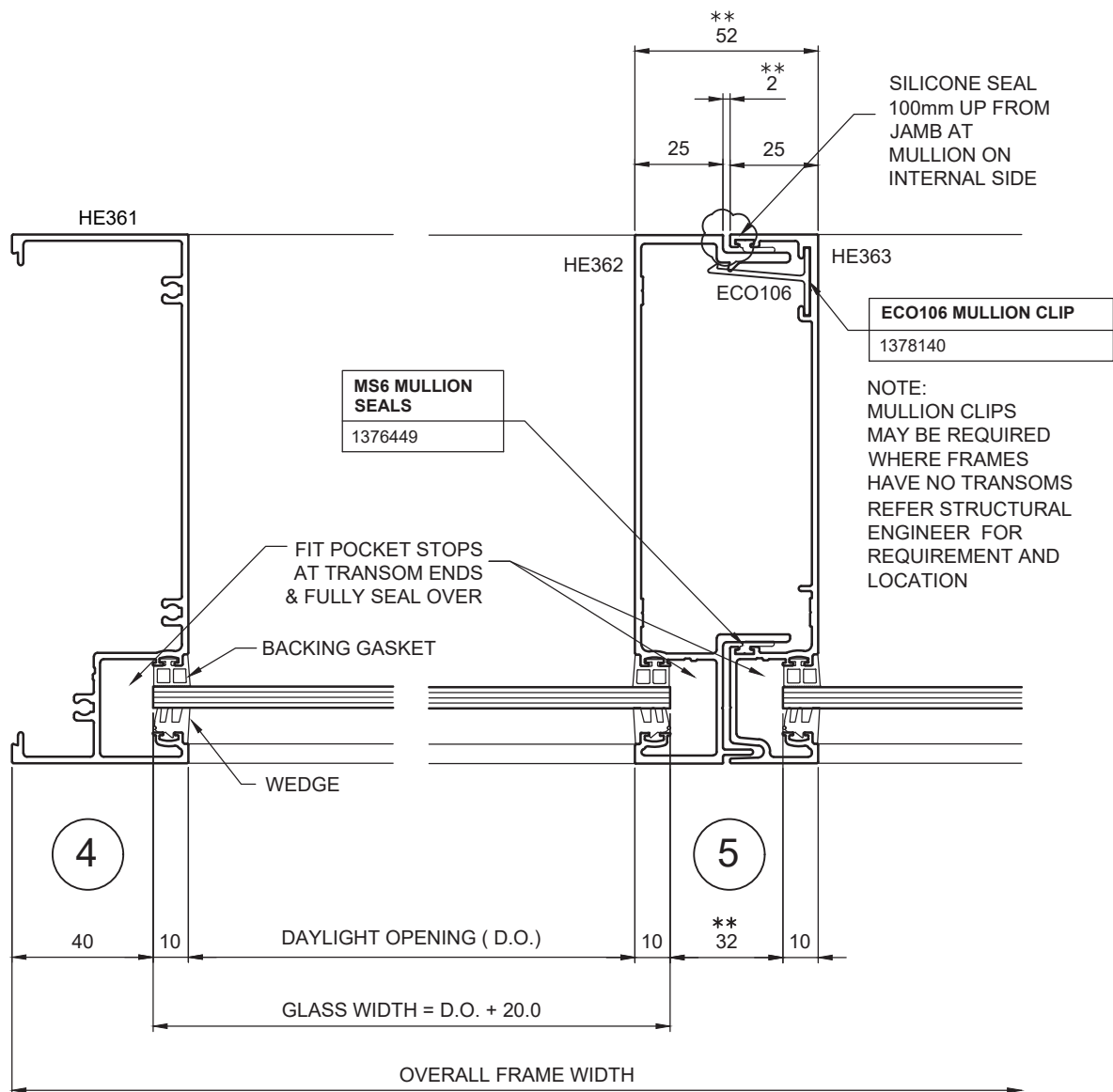
Typical Head, Transom and Sill Details



8. Typical Details

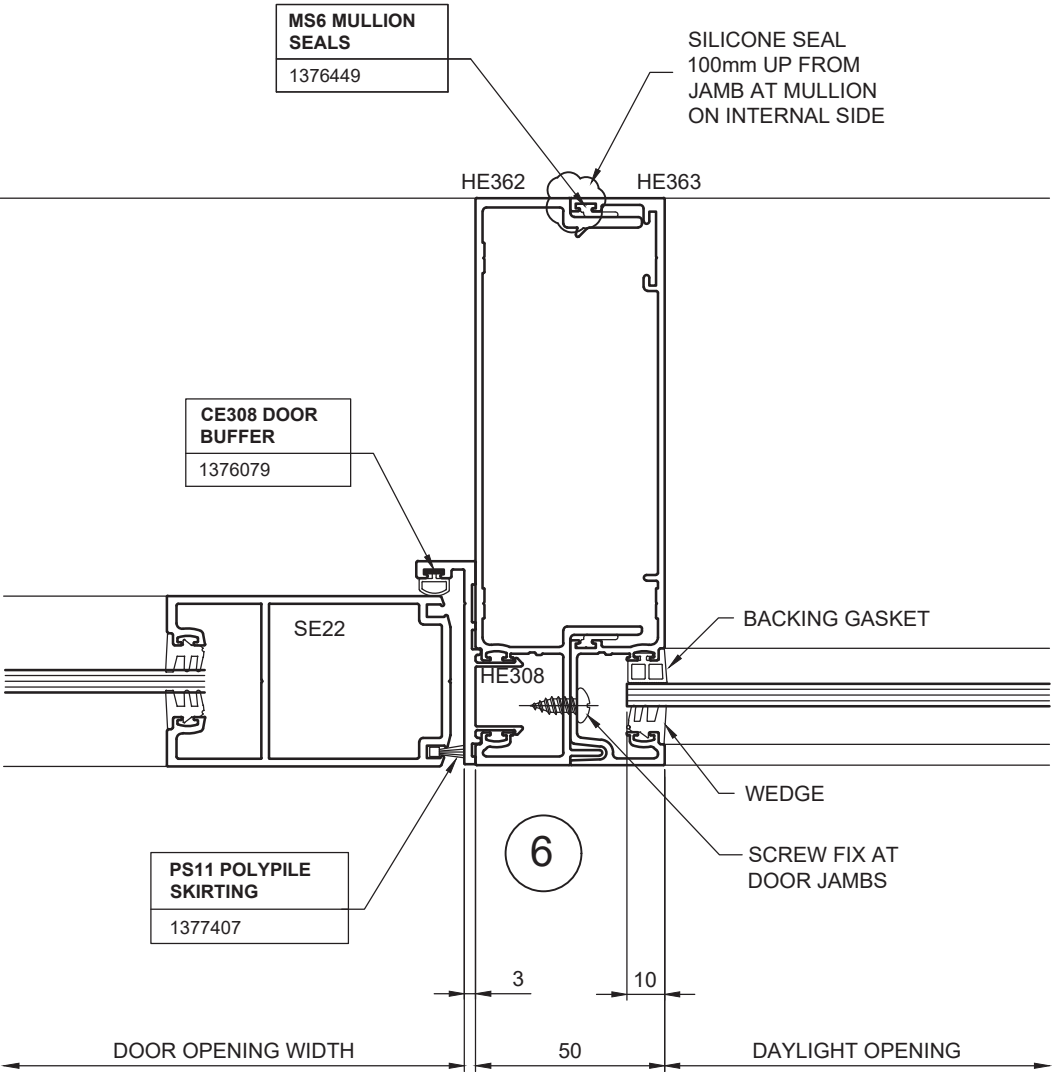
Typical Jamb/ Mullion Details

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



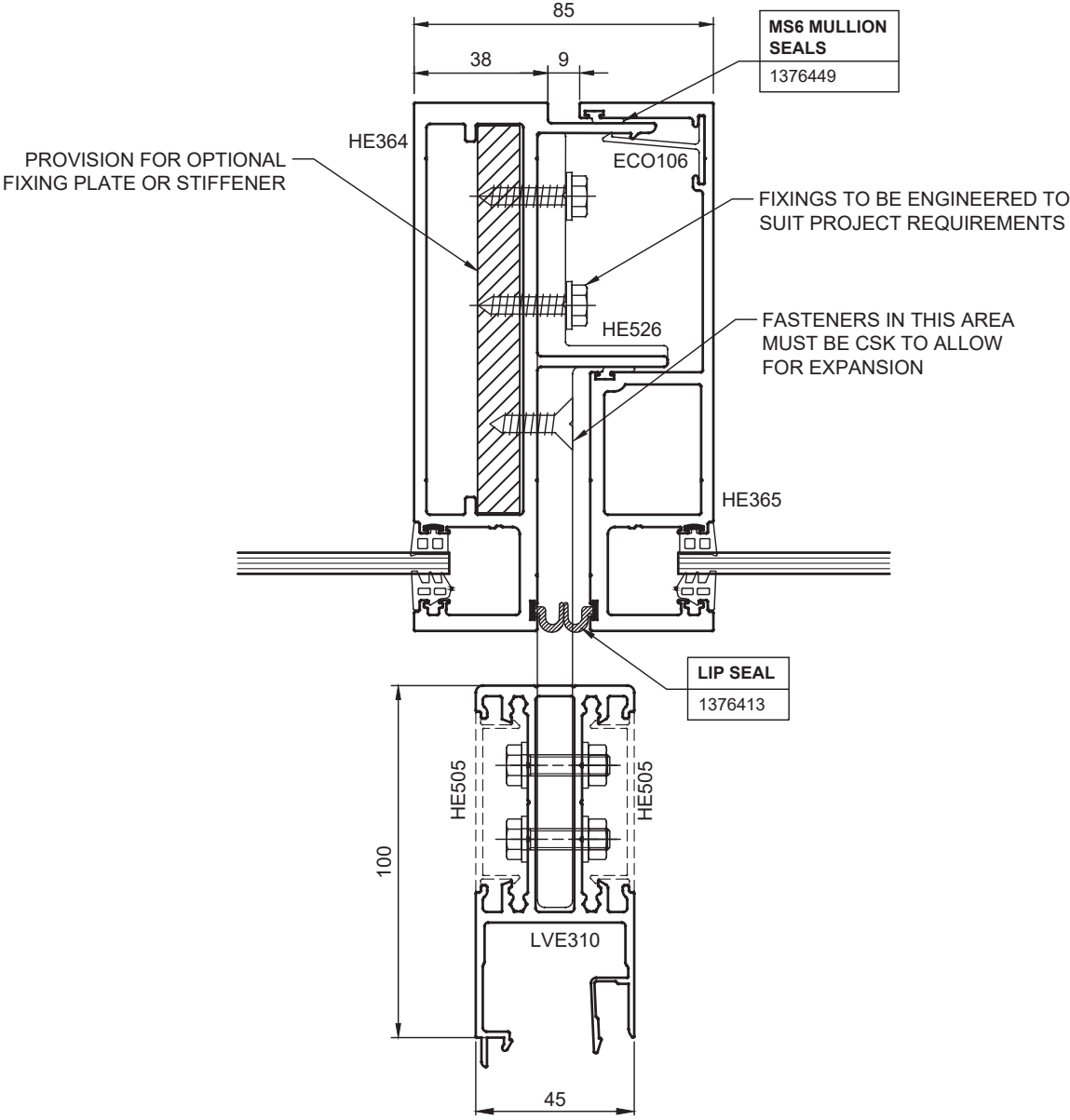
8. Typical Details

Typical Door Detail - No Highlites Over



8. Typical Details

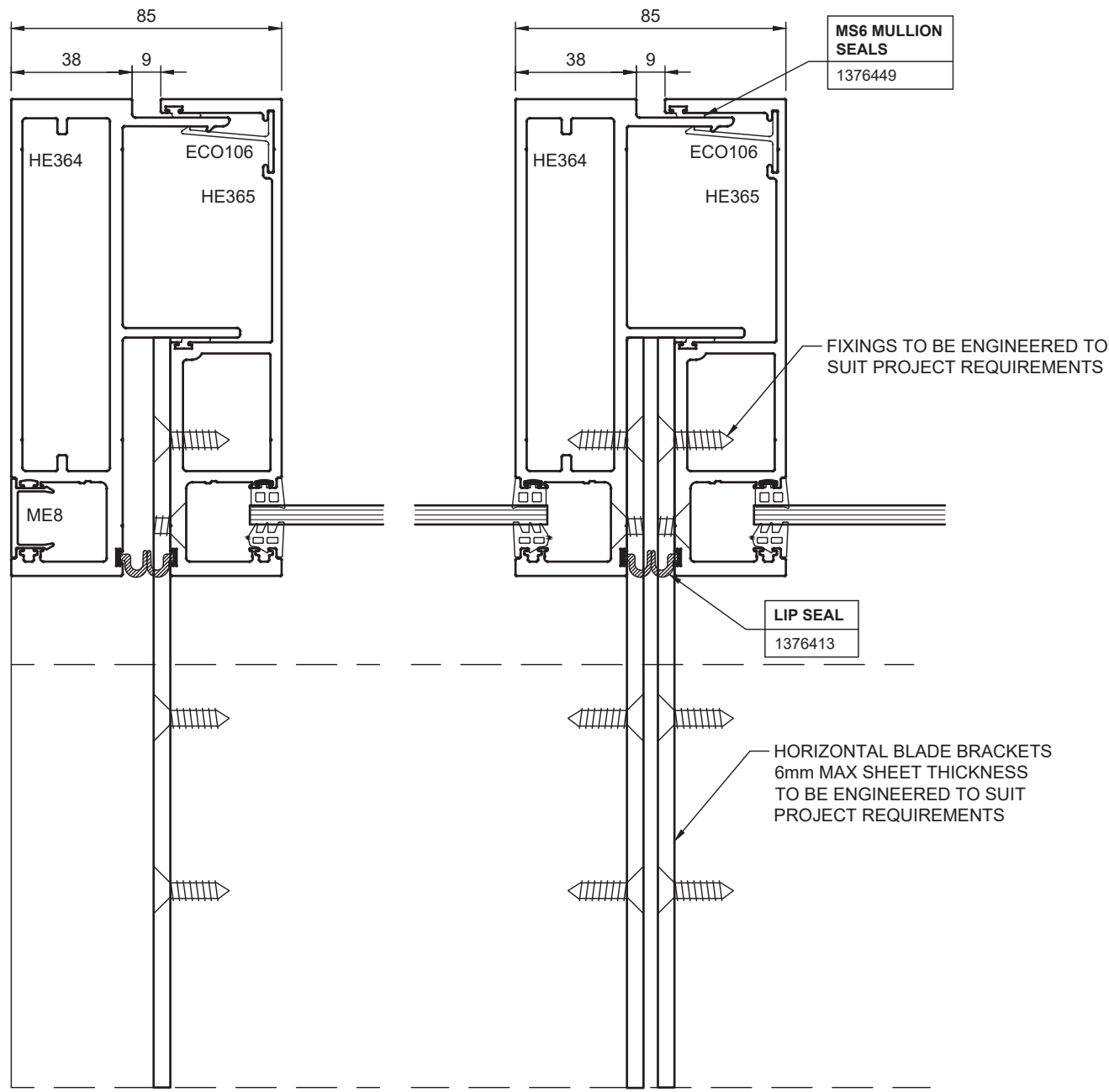
Vertical Blade Assembly



8. Typical Details

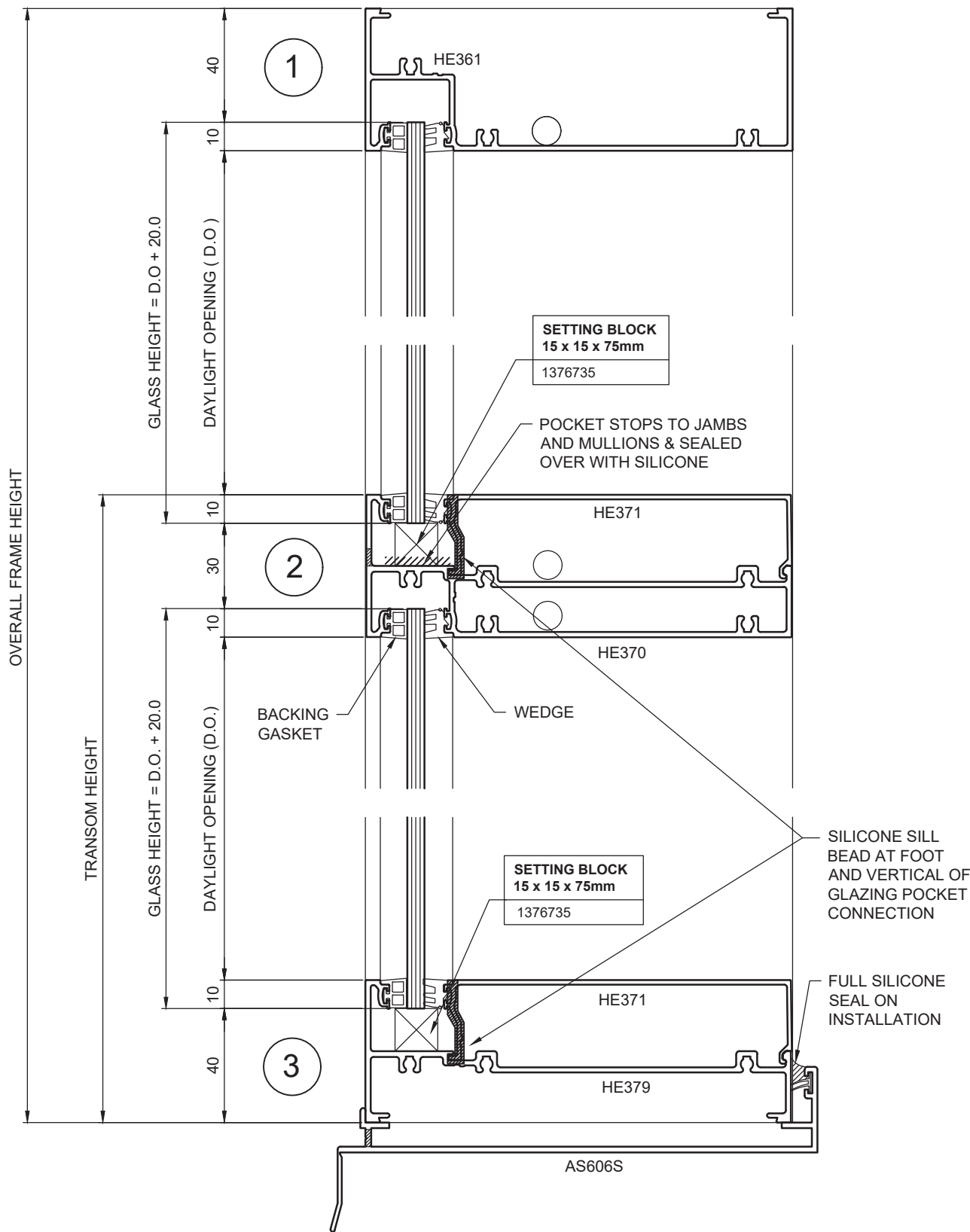


Horizontal Blade Assembly



8. Typical Details

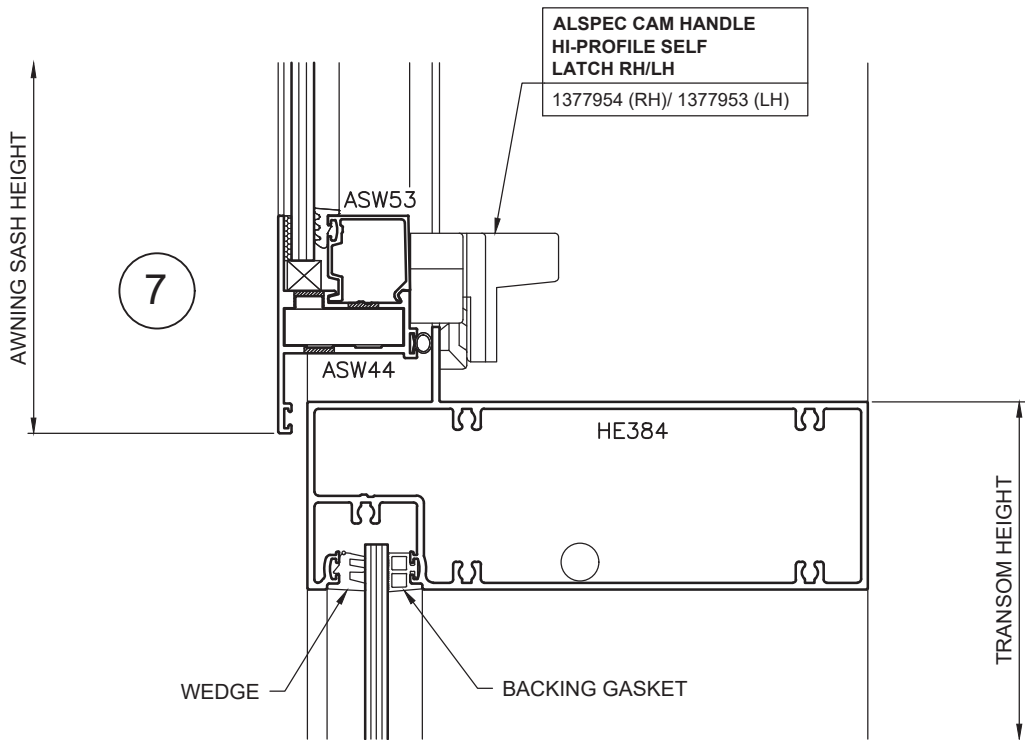
Typical Head, Transom and Sill Details - Internal Glaze



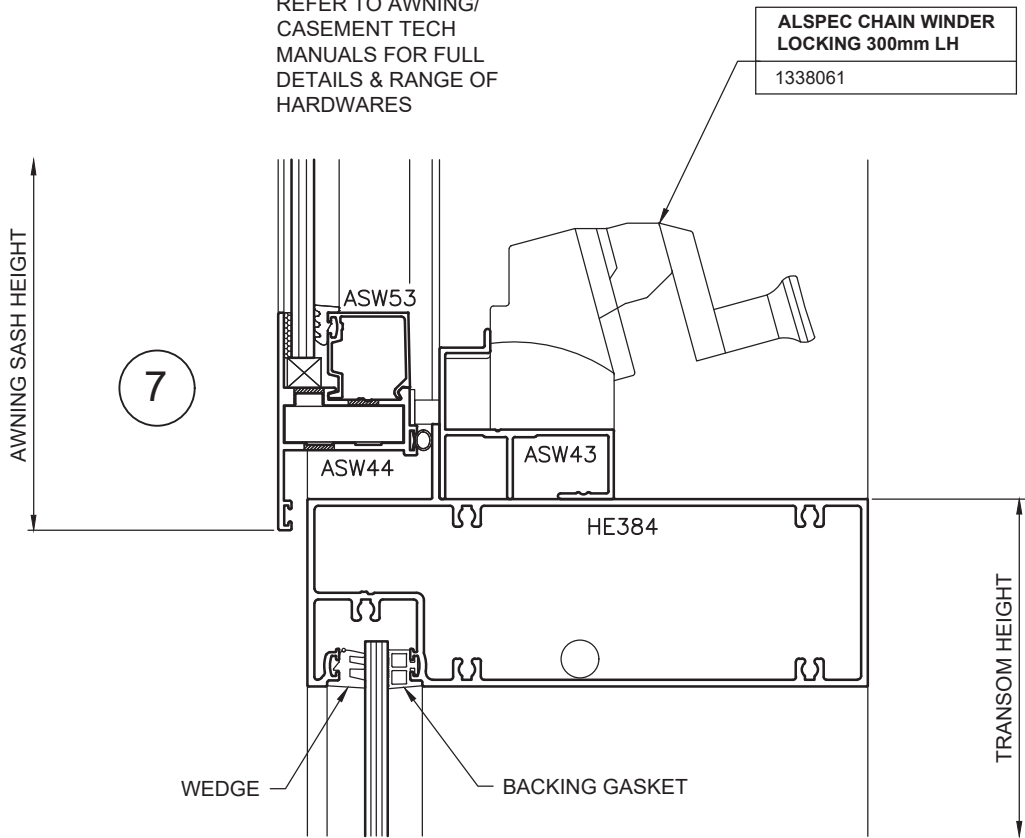


8. Typical Details

Typical Transom Details - 35mm Awning/ Fixed

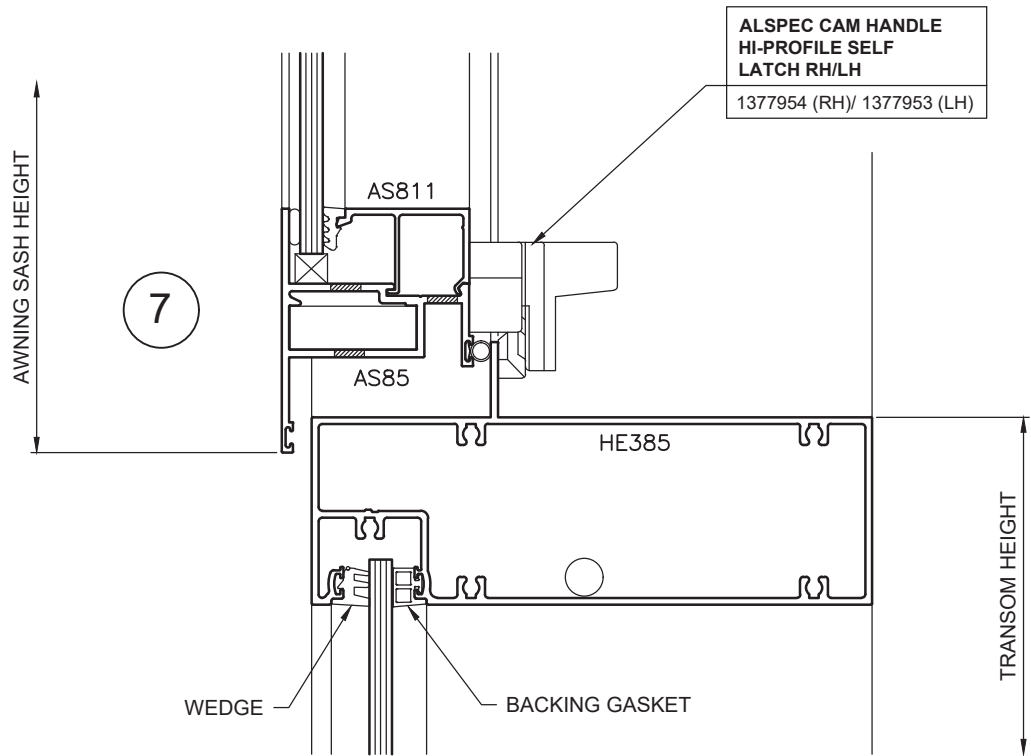


NOTE:
REFER TO AWNING/
CASEMENT TECH
MANUALS FOR FULL
DETAILS & RANGE OF
HARDWARES

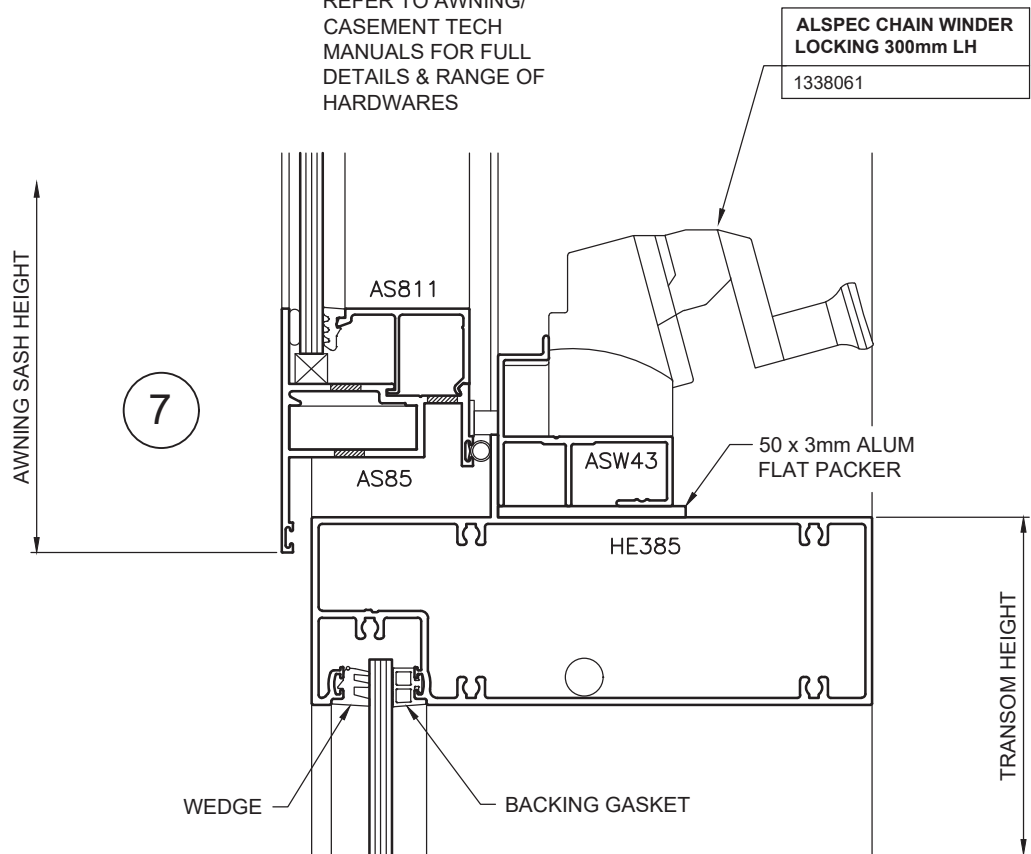


8. Typical Details

Typical Transom Details - 50mm Awning/ Fixed



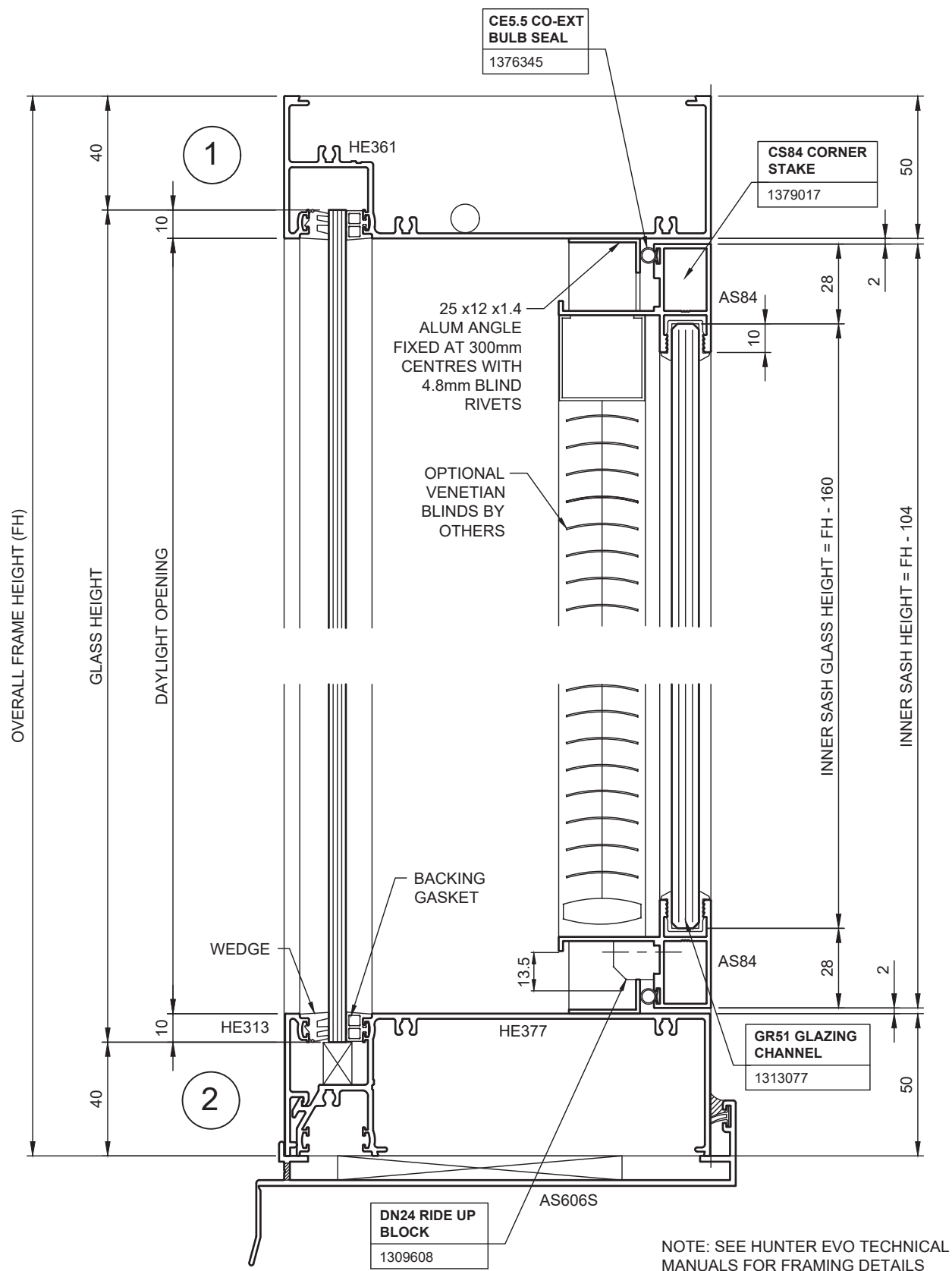
NOTE:
REFER TO AWNING/
CASEMENT TECH
MANUALS FOR FULL
DETAILS & RANGE OF
HARDWARES





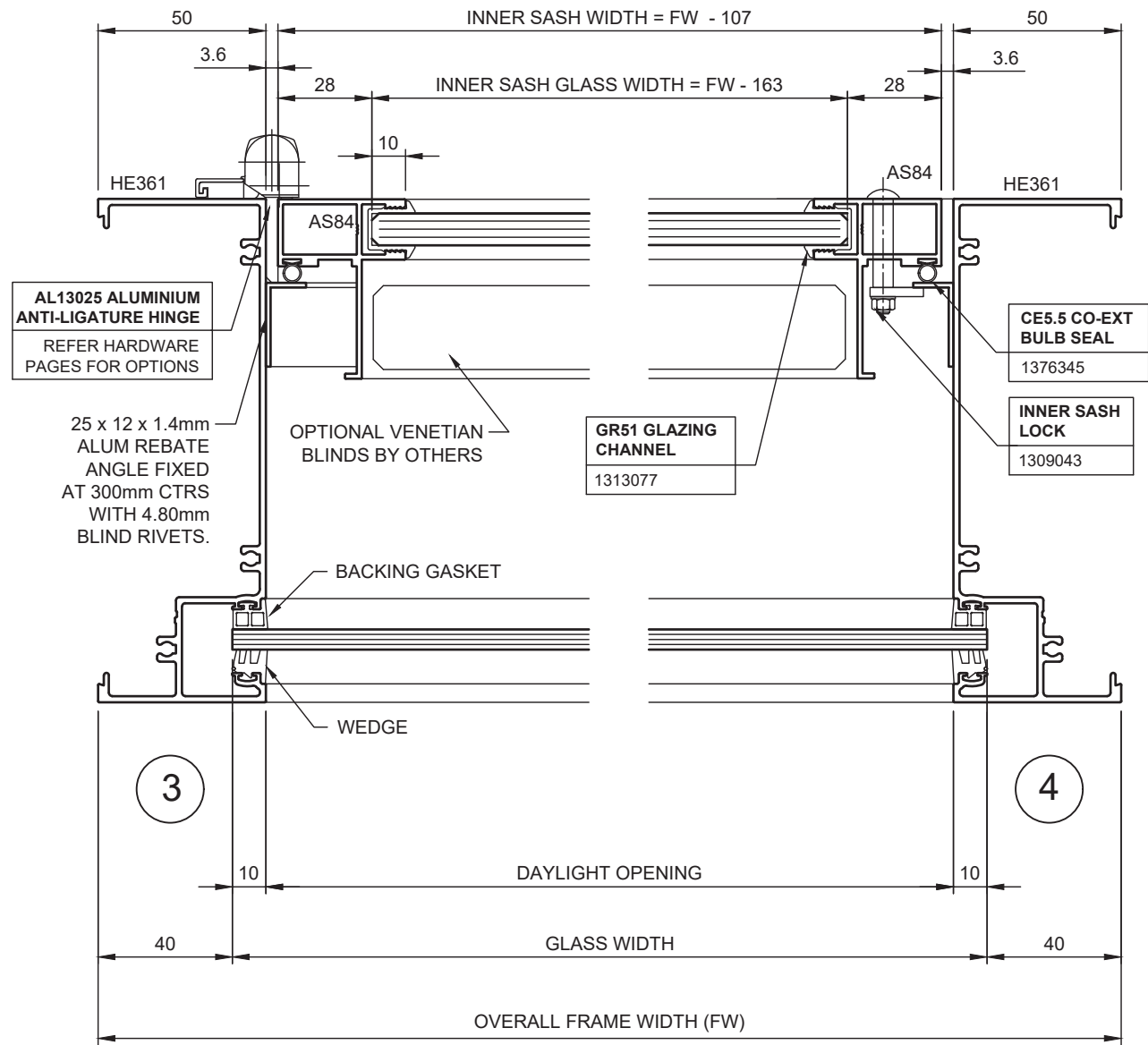
8. Typical Details

Typical Head & Sill Details with AS84 Inner Sash



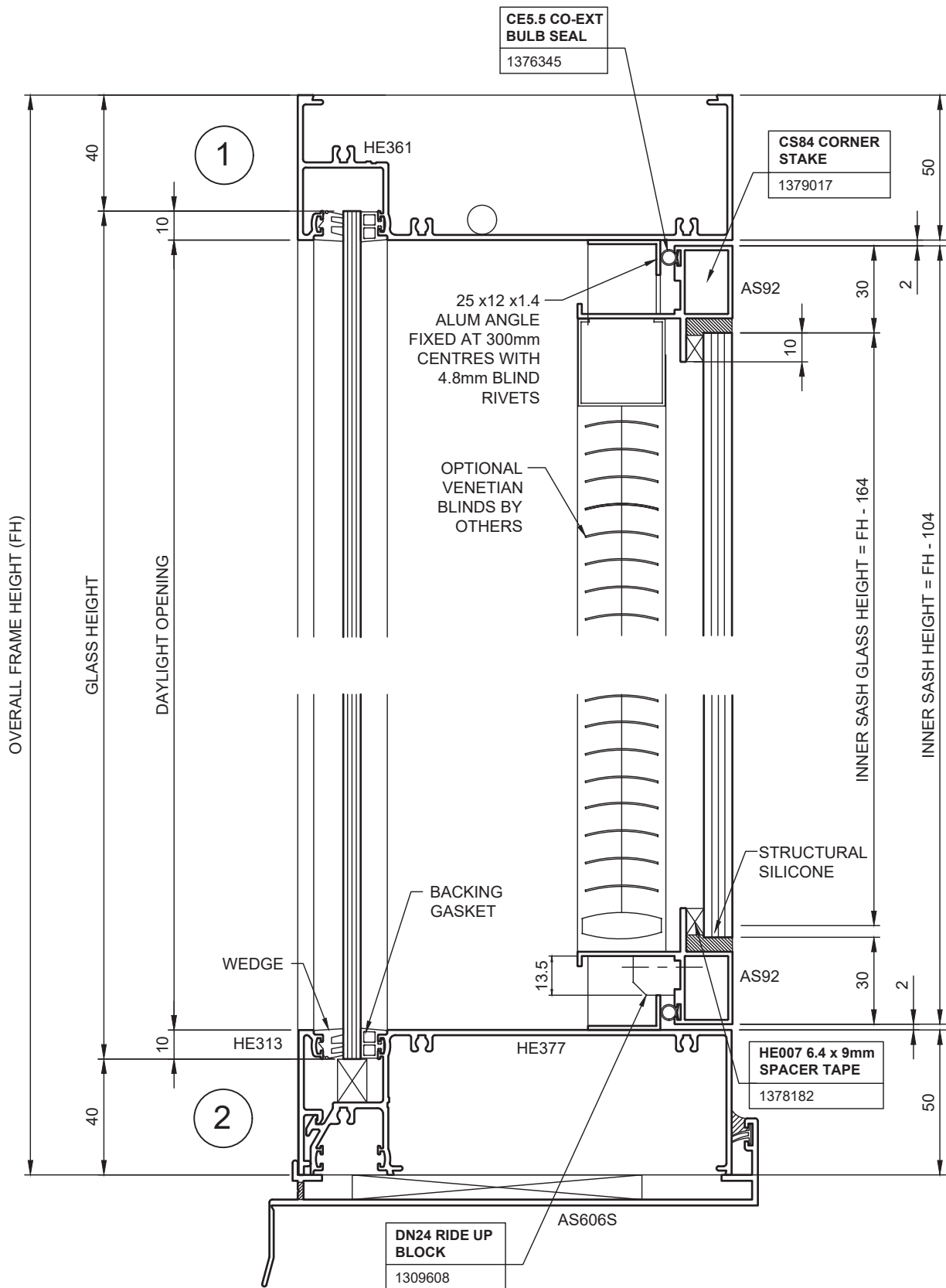
8. Typical Details

Typical Jamb Details with AS84 Inner Sash



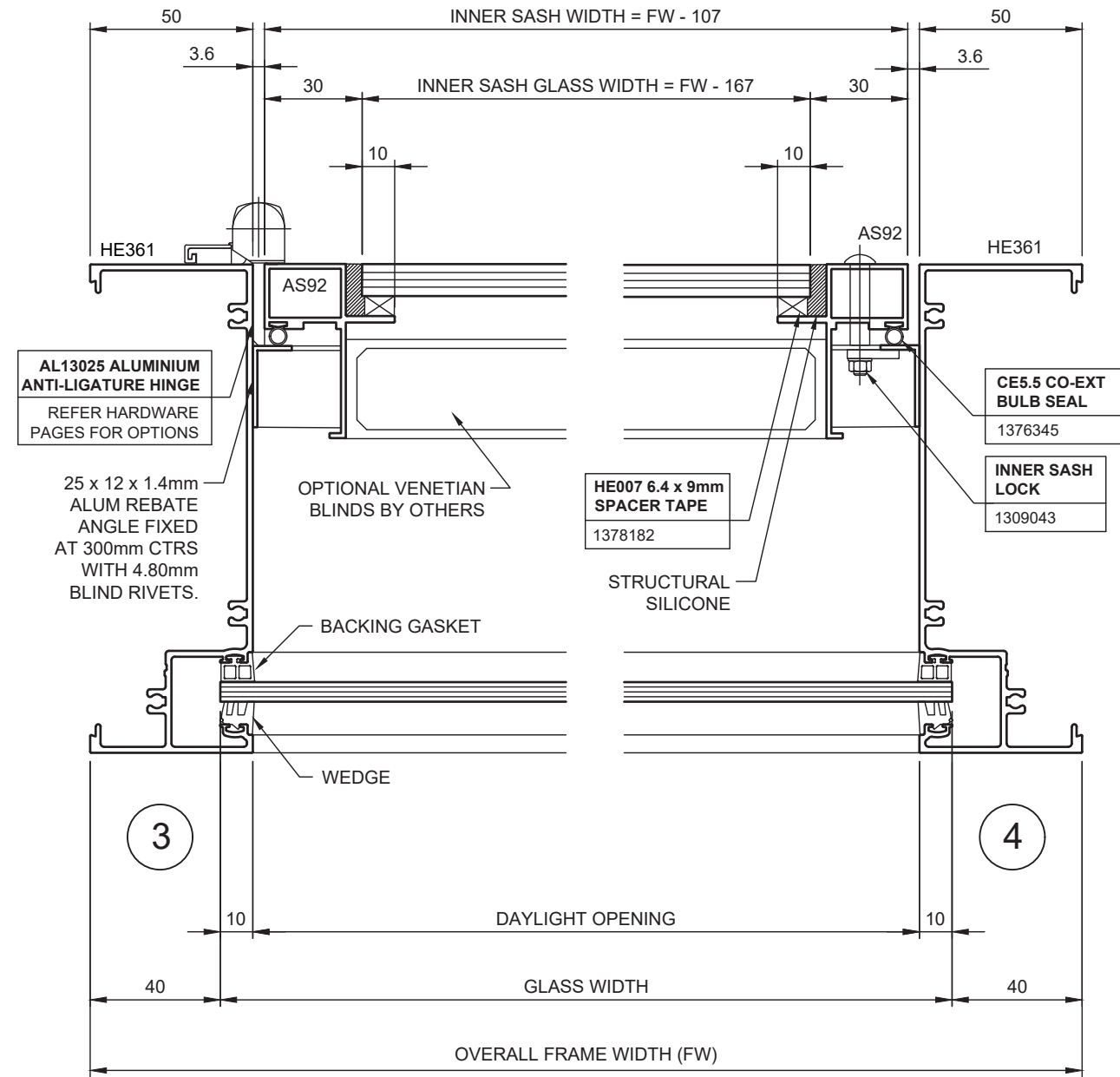
8. Typical Details

Typical Head, Sill Details with AS92 Inner Sash

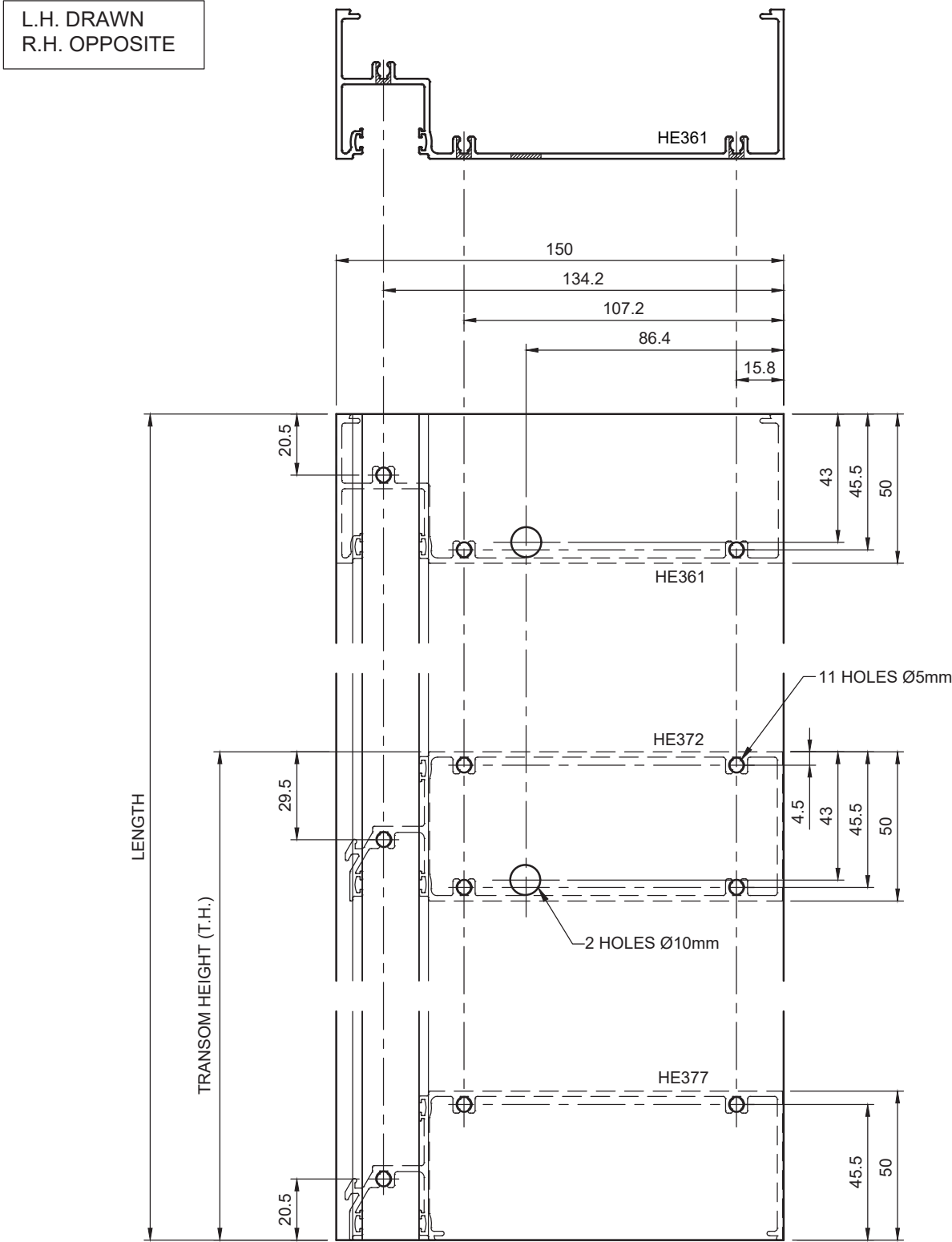


8. Typical Details

Typical Jamb Details with AS92 Inner Sash



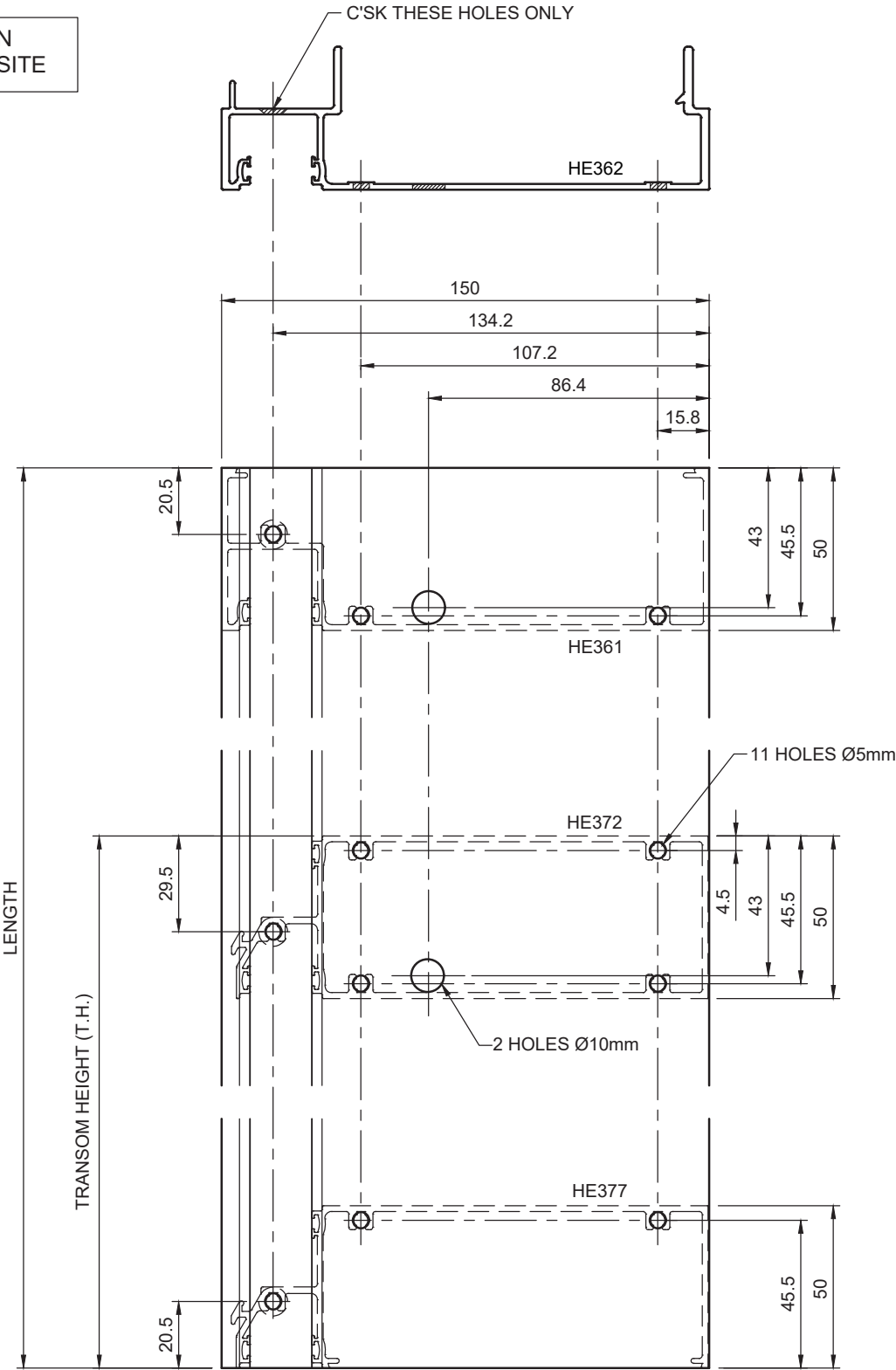
Frame Preparation - External Glaze



10. Manufacturing Details

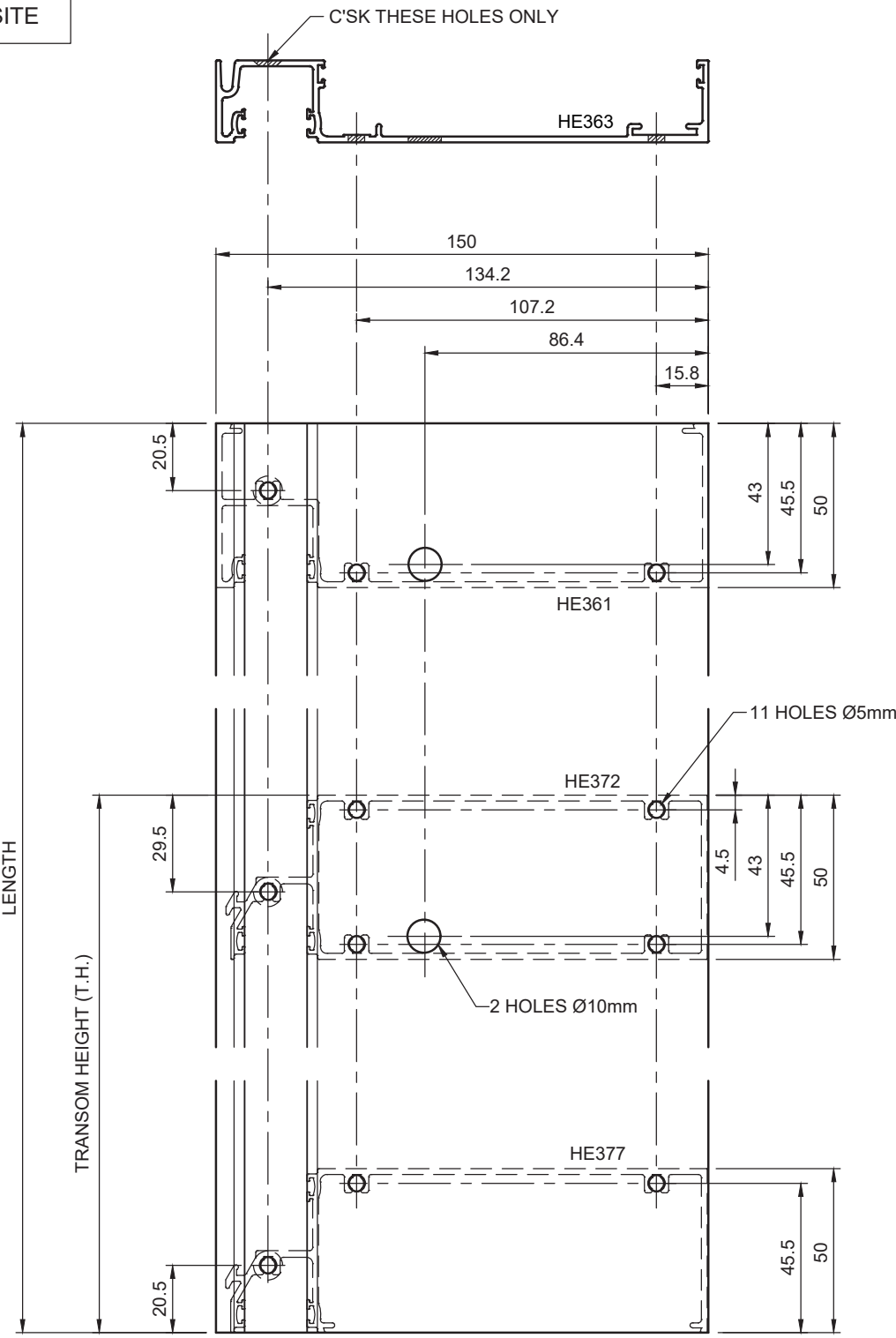
Frame Preparation - External Glaze

L.H. DRAWN
R.H. OPPOSITE



Frame Preparation - External Glaze

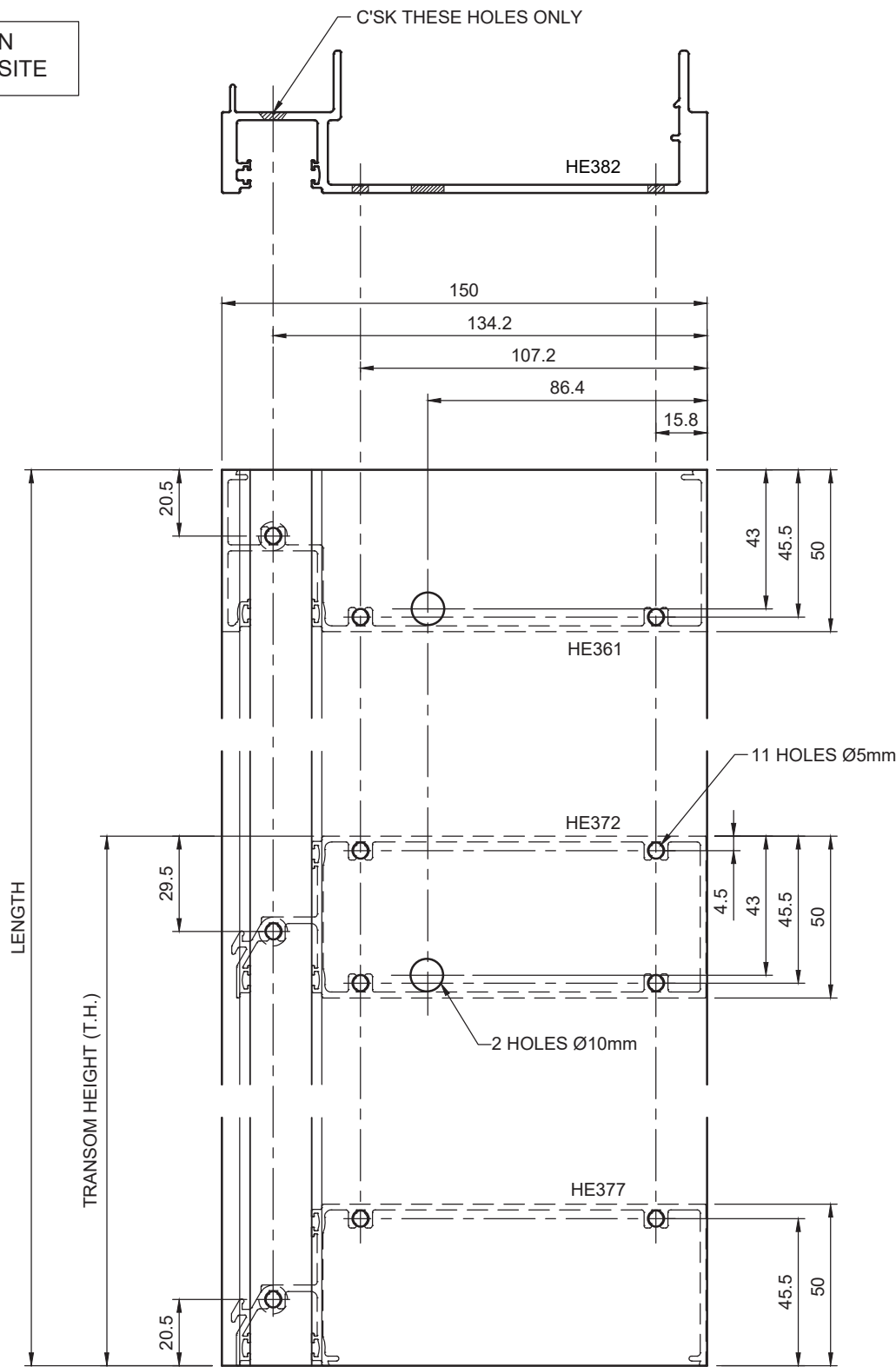
L.H. DRAWN
R.H. OPPOSITE



10. Manufacturing Details

Frame Preparation - External Glaze

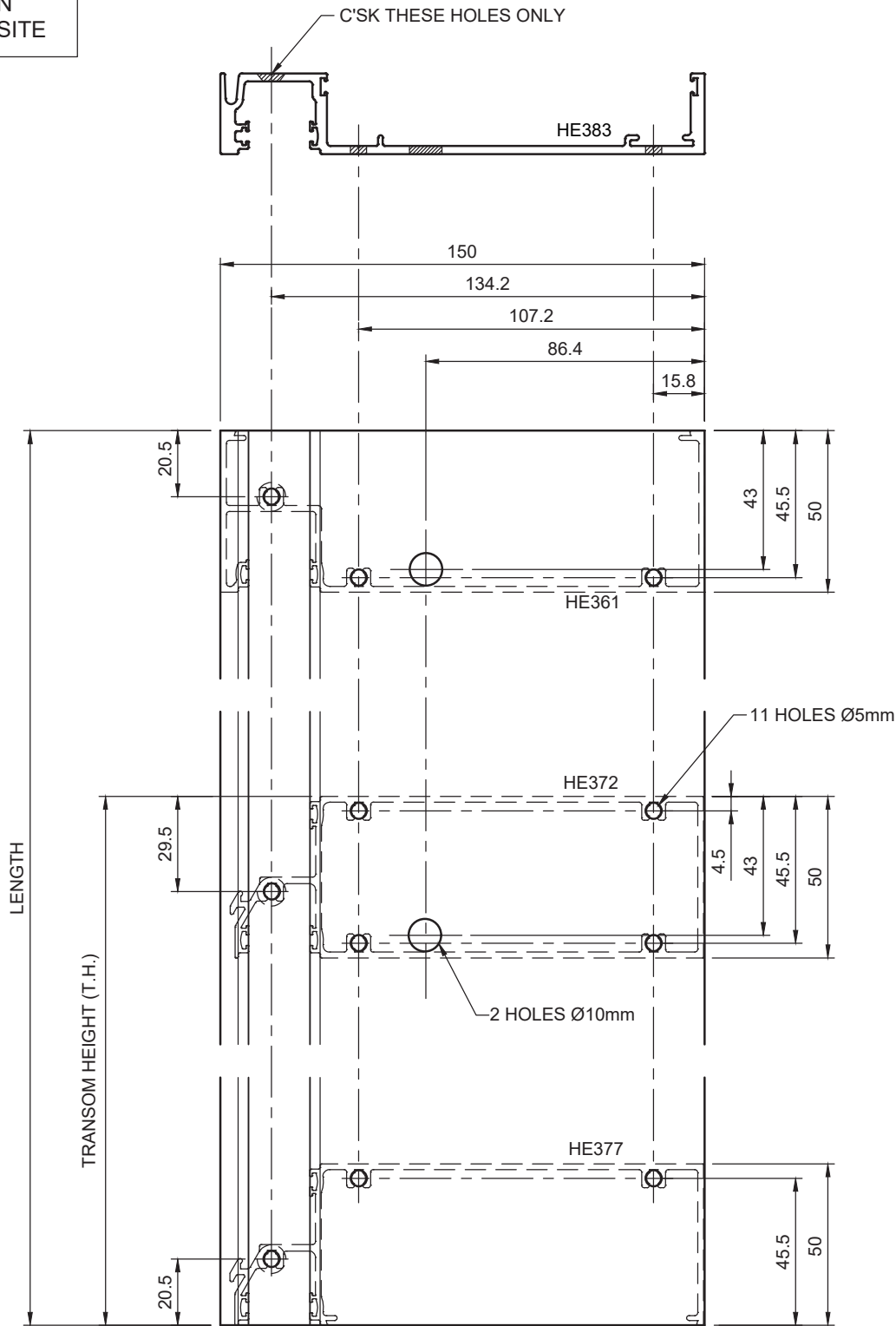
L.H. DRAWN
R.H. OPPOSITE



10. Manufacturing Details

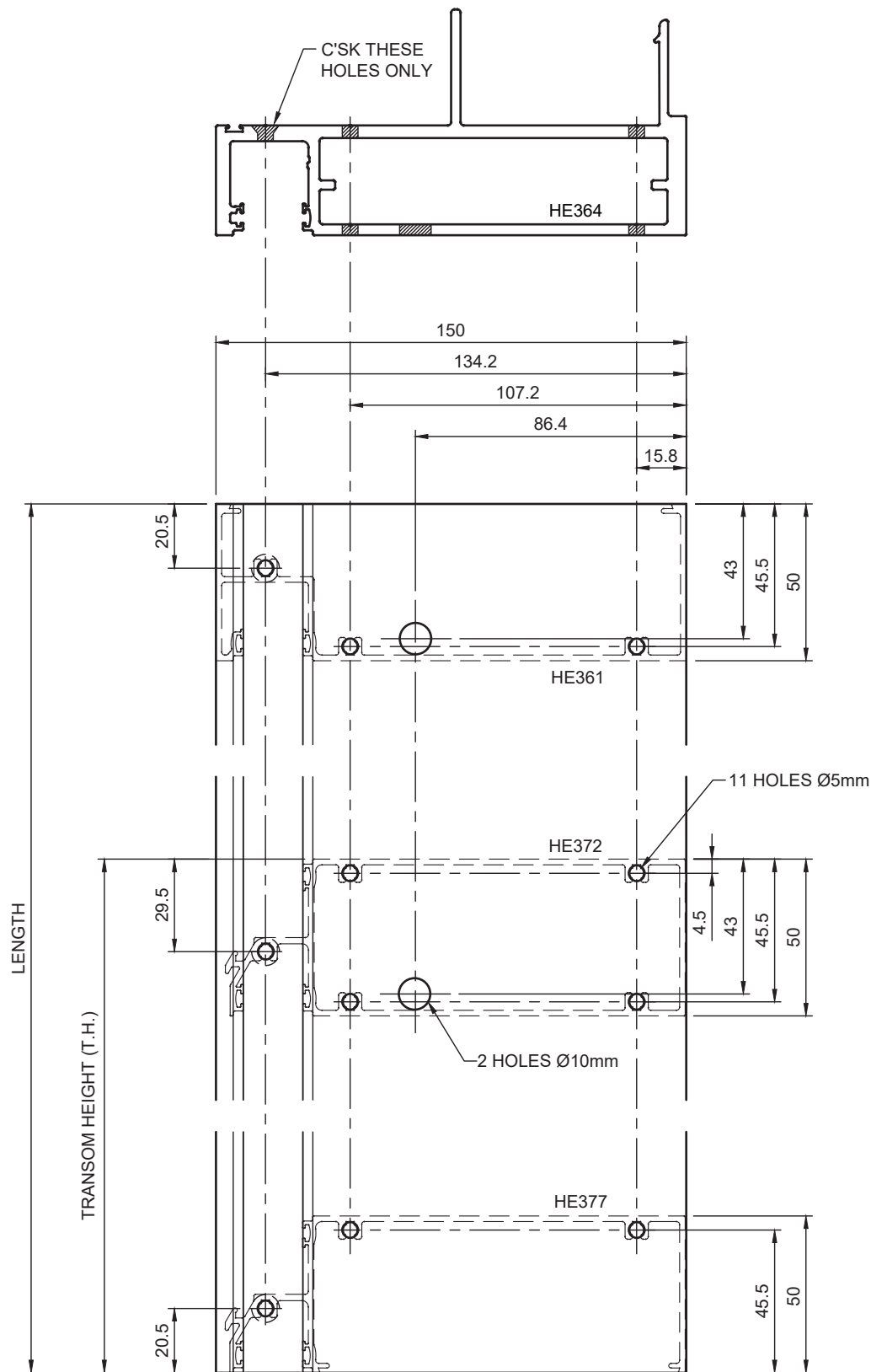
Frame Preparation - External Glaze

L.H. DRAWN
R.H. OPPOSITE

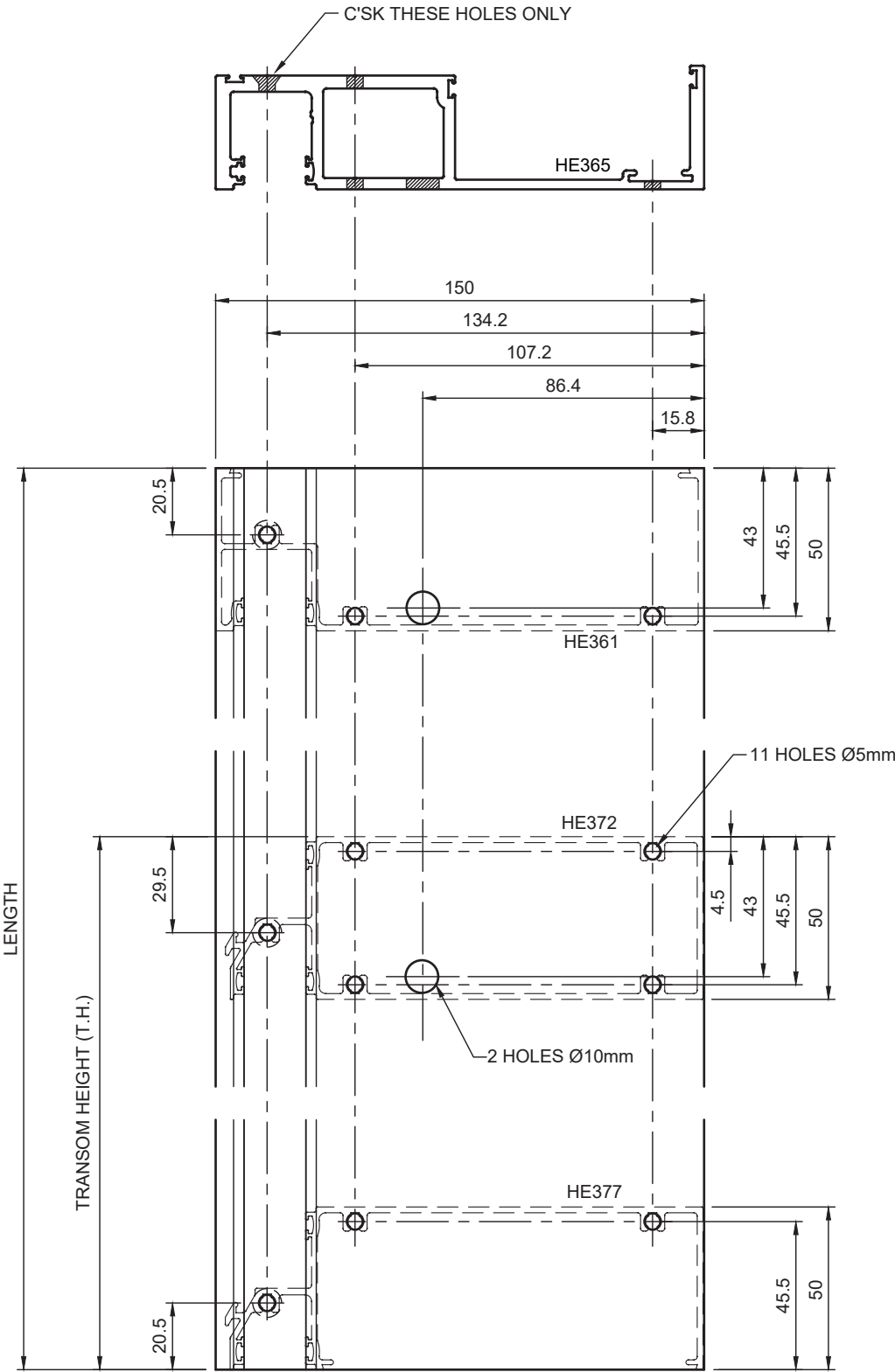


10. Manufacturing Details

Frame Preparation- External Glaze

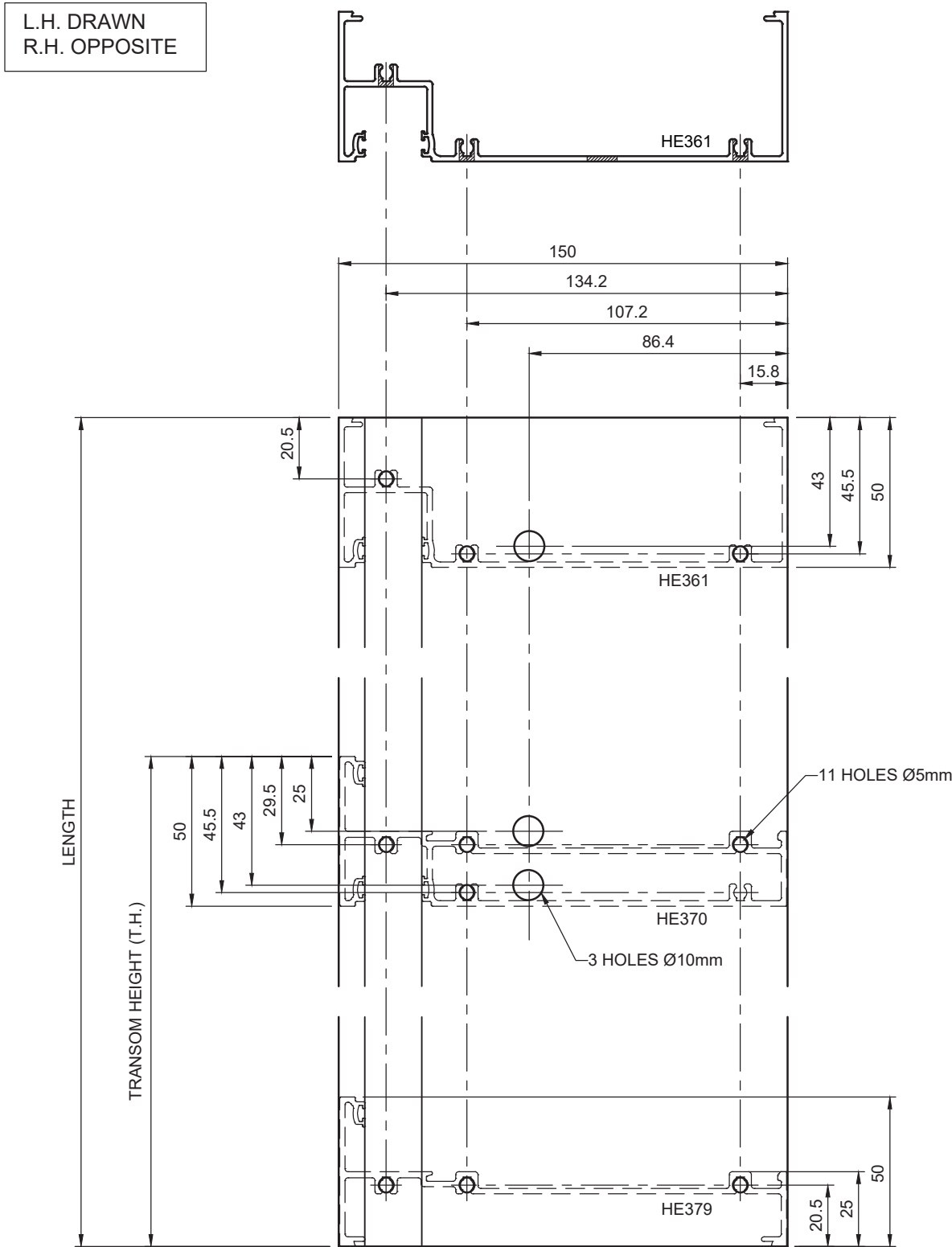


Frame Preparation- External Glaze



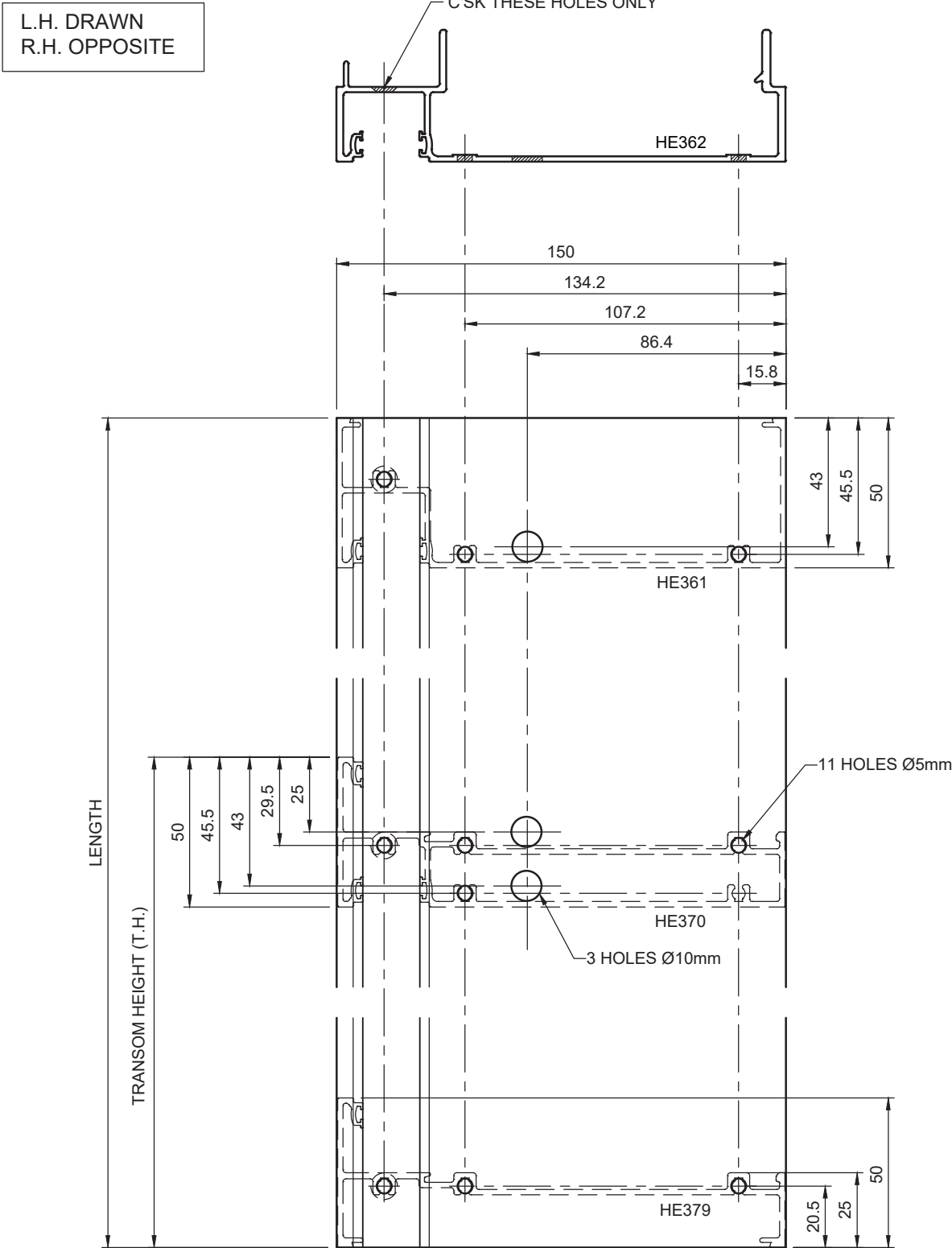
10. Manufacturing Details

Frame Preparation - Internal Glaze



10. Manufacturing Details

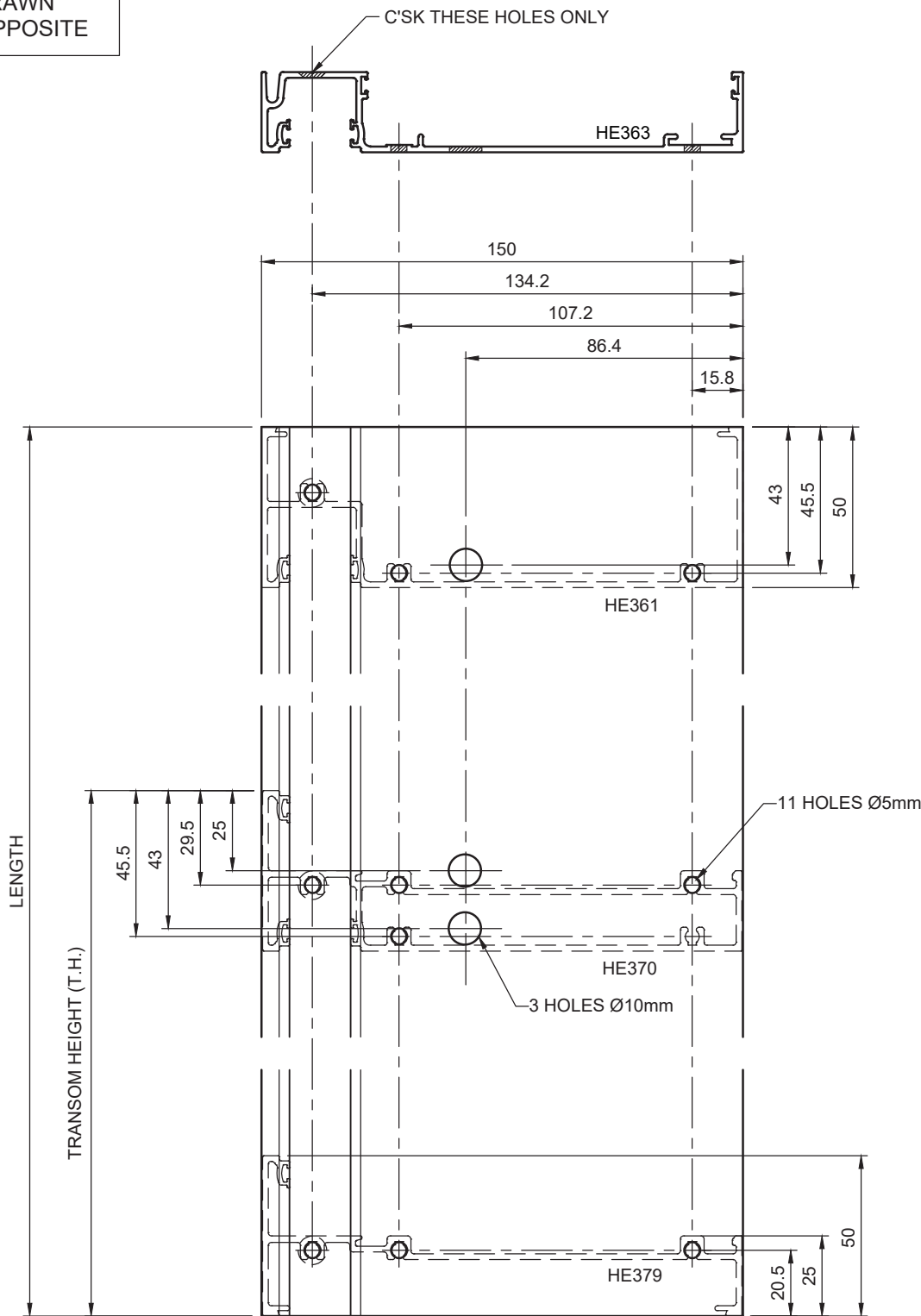
Frame Preparation - Internal Glaze



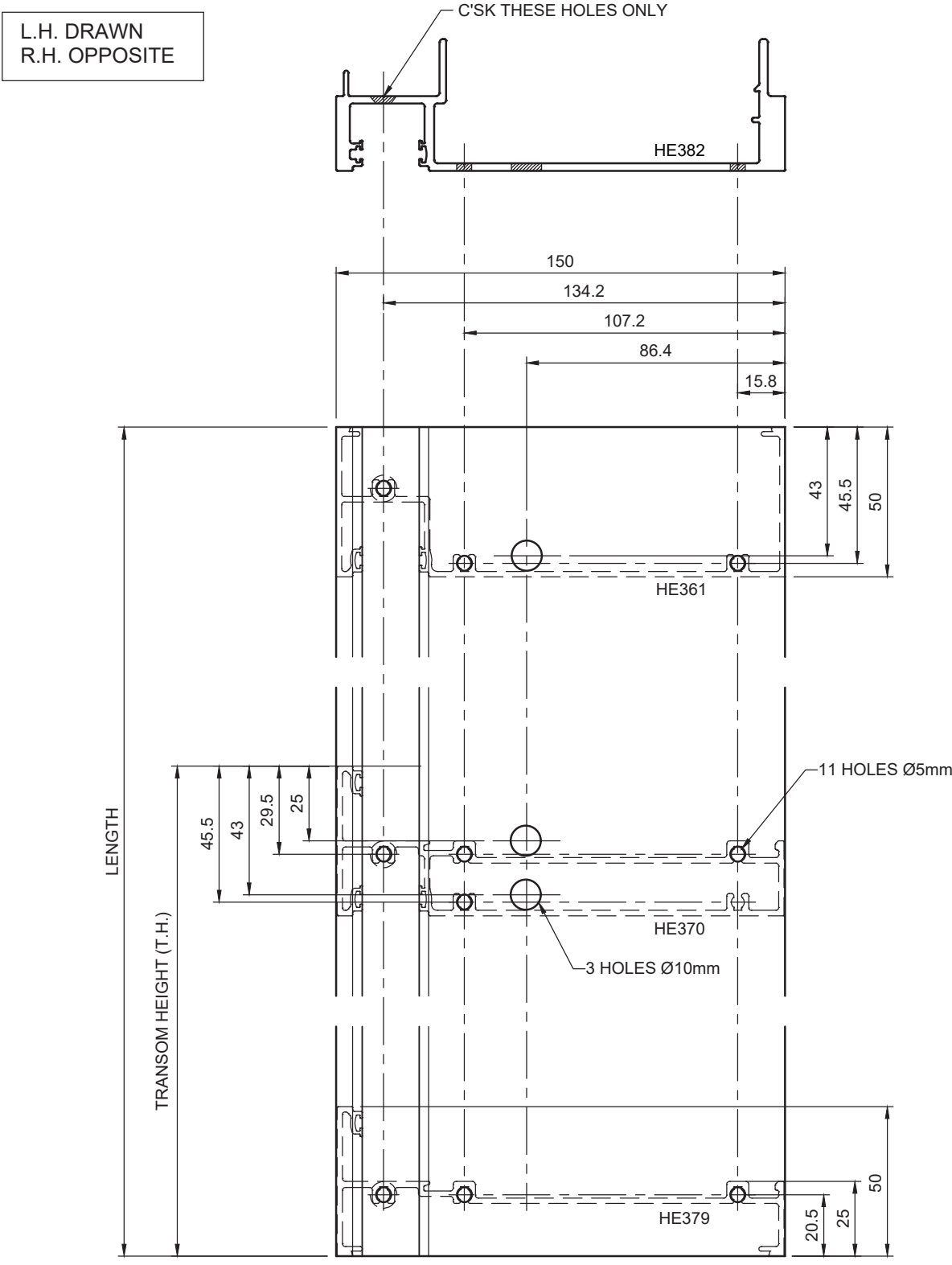
10. Manufacturing Details

Frame Preparation - Internal Glaze

L.H. DRAWN
R.H. OPPOSITE

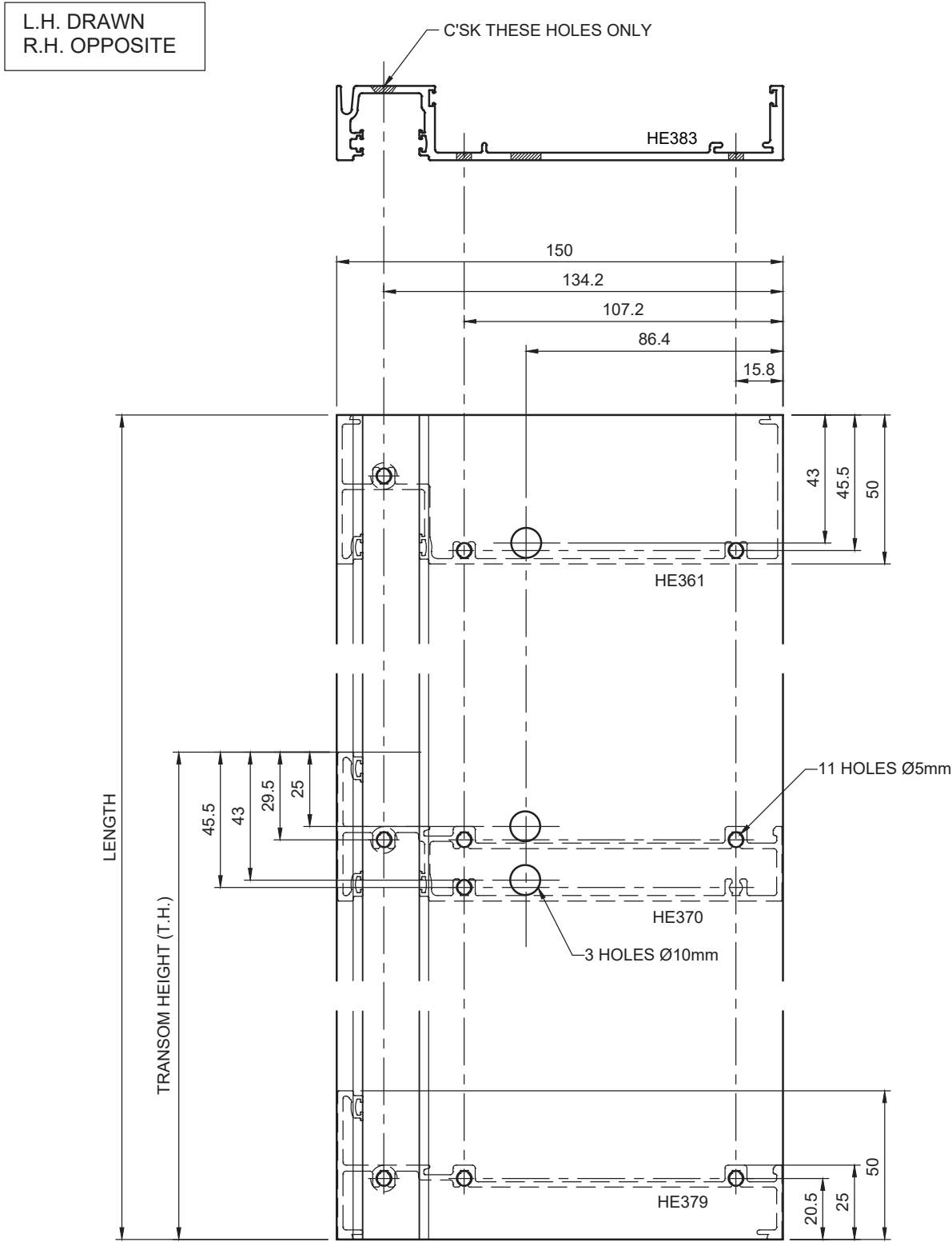


Frame Preparation - Internal Glaze



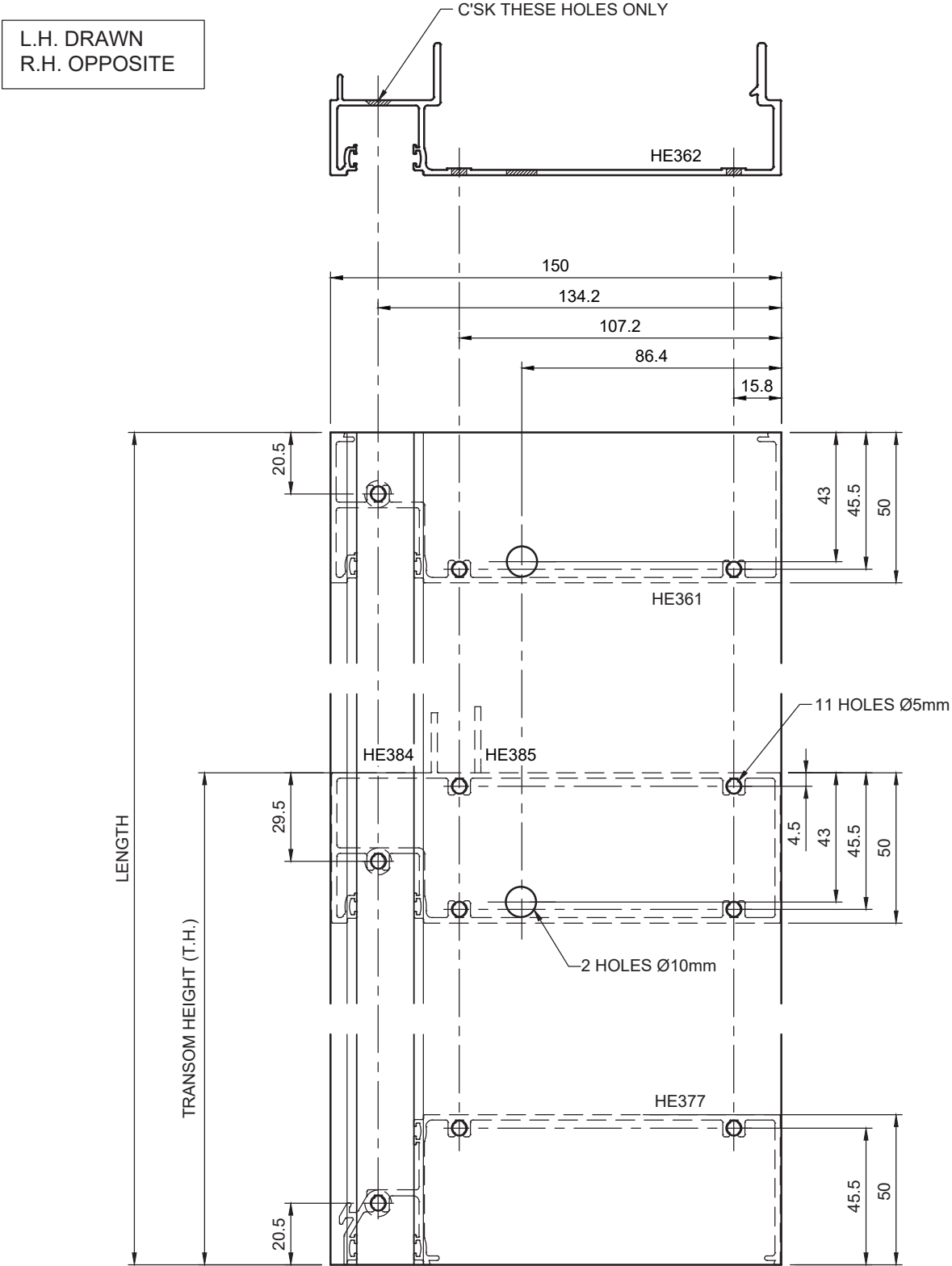
10. Manufacturing Details

Frame Preparation - Internal Glaze

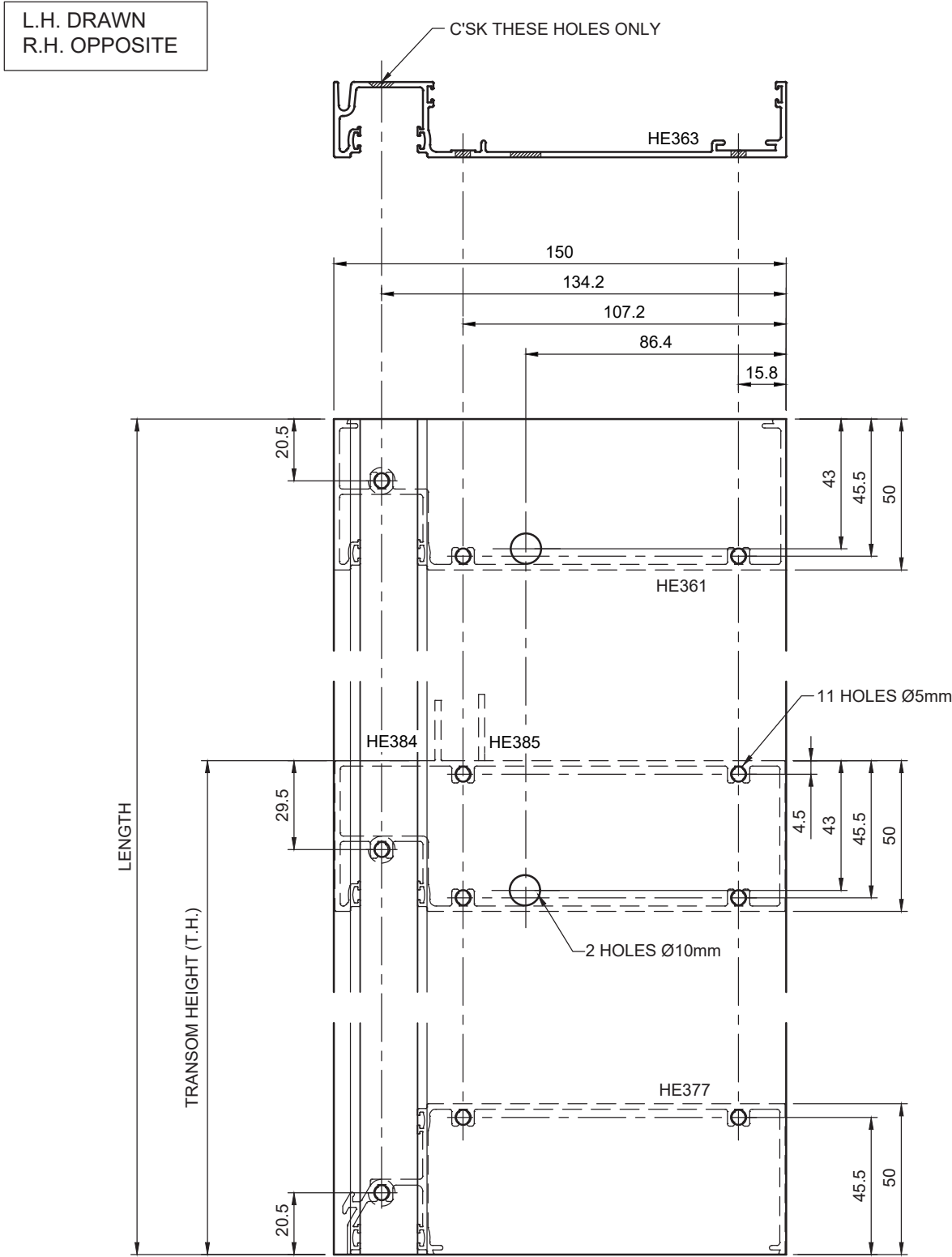


10. Manufacturing Details

Frame Preparation - External Glaze with Awning and Lowlite

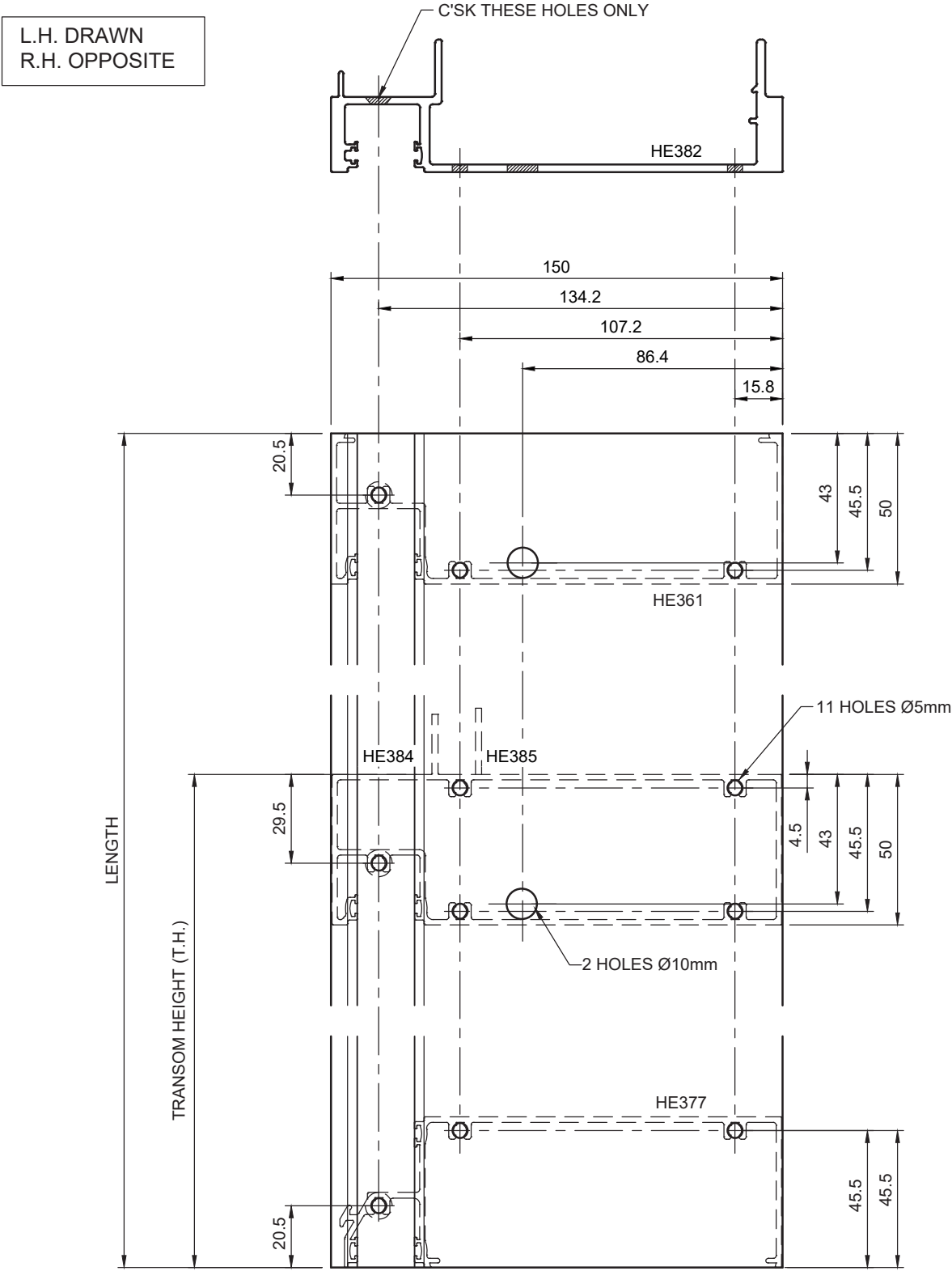


Frame Preparation - External Glaze with Awning and Lowlite

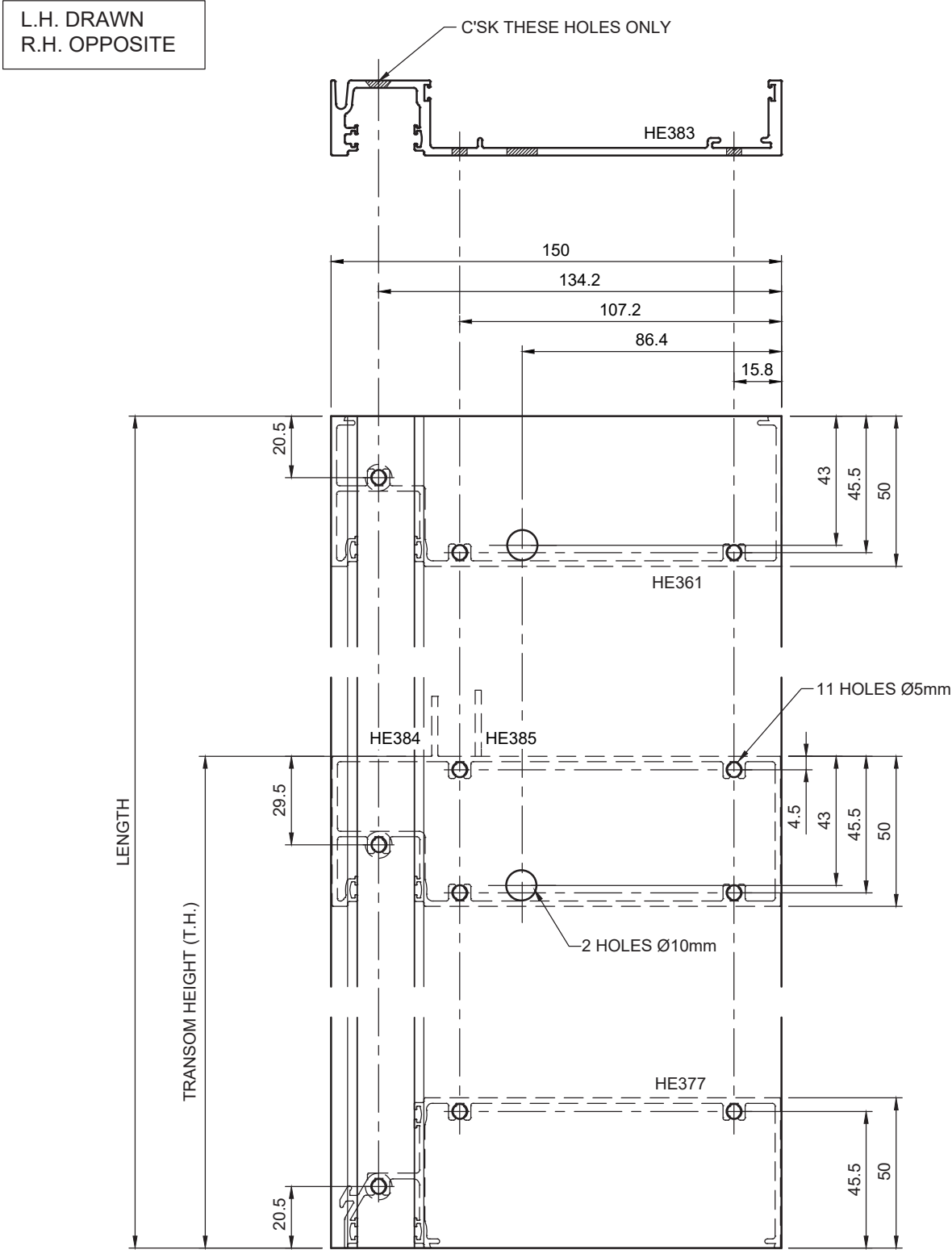


10. Manufacturing Details

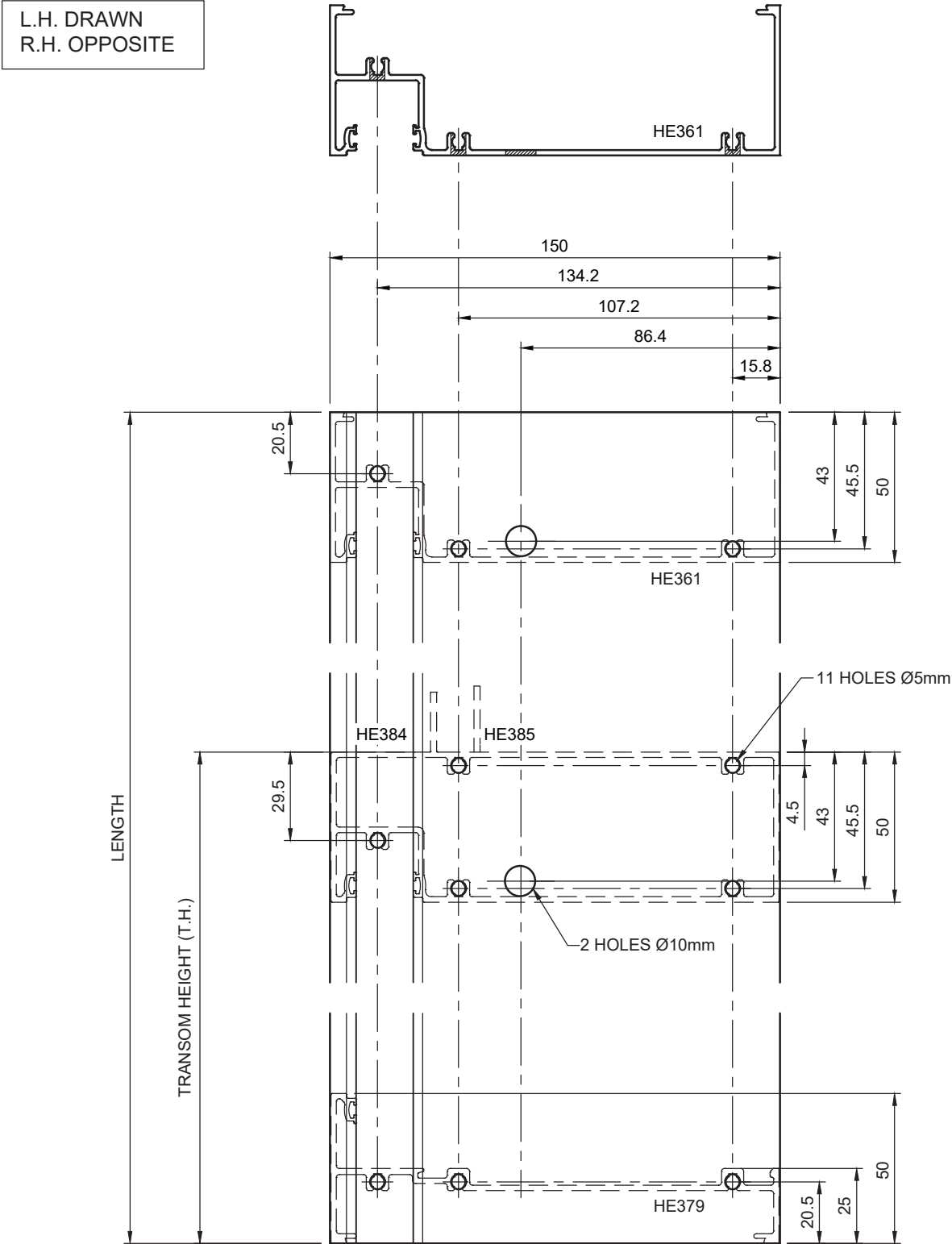
Frame Preparation - External Glaze with Awning and Lowlite



Frame Preparation - External Glaze with Awning and Lowlite



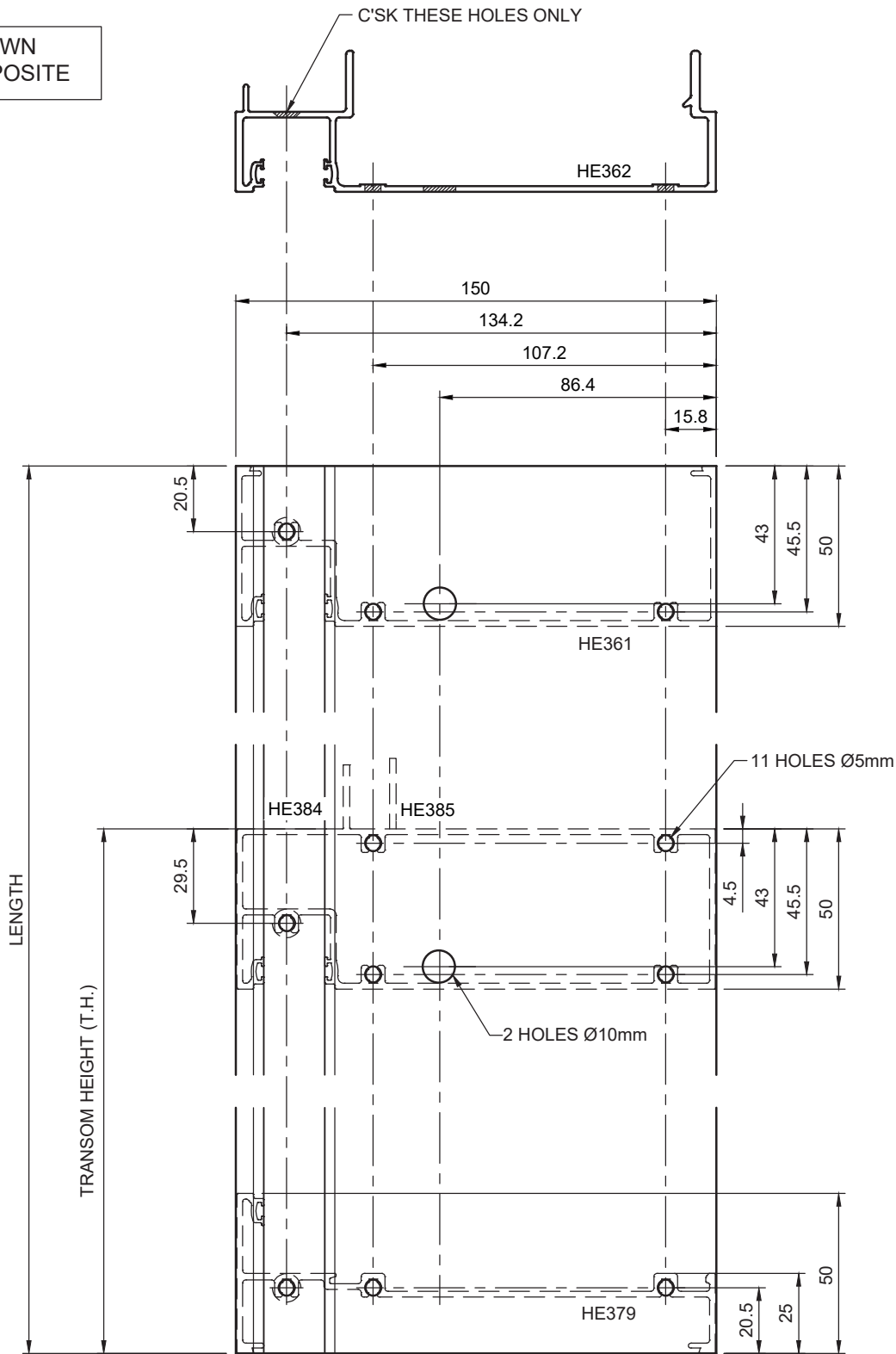
Frame Preparation - Internal Glaze with Awning and Lowlite



10. Manufacturing Details

Frame Preparation - Internal Glaze with Awning and Lowlite

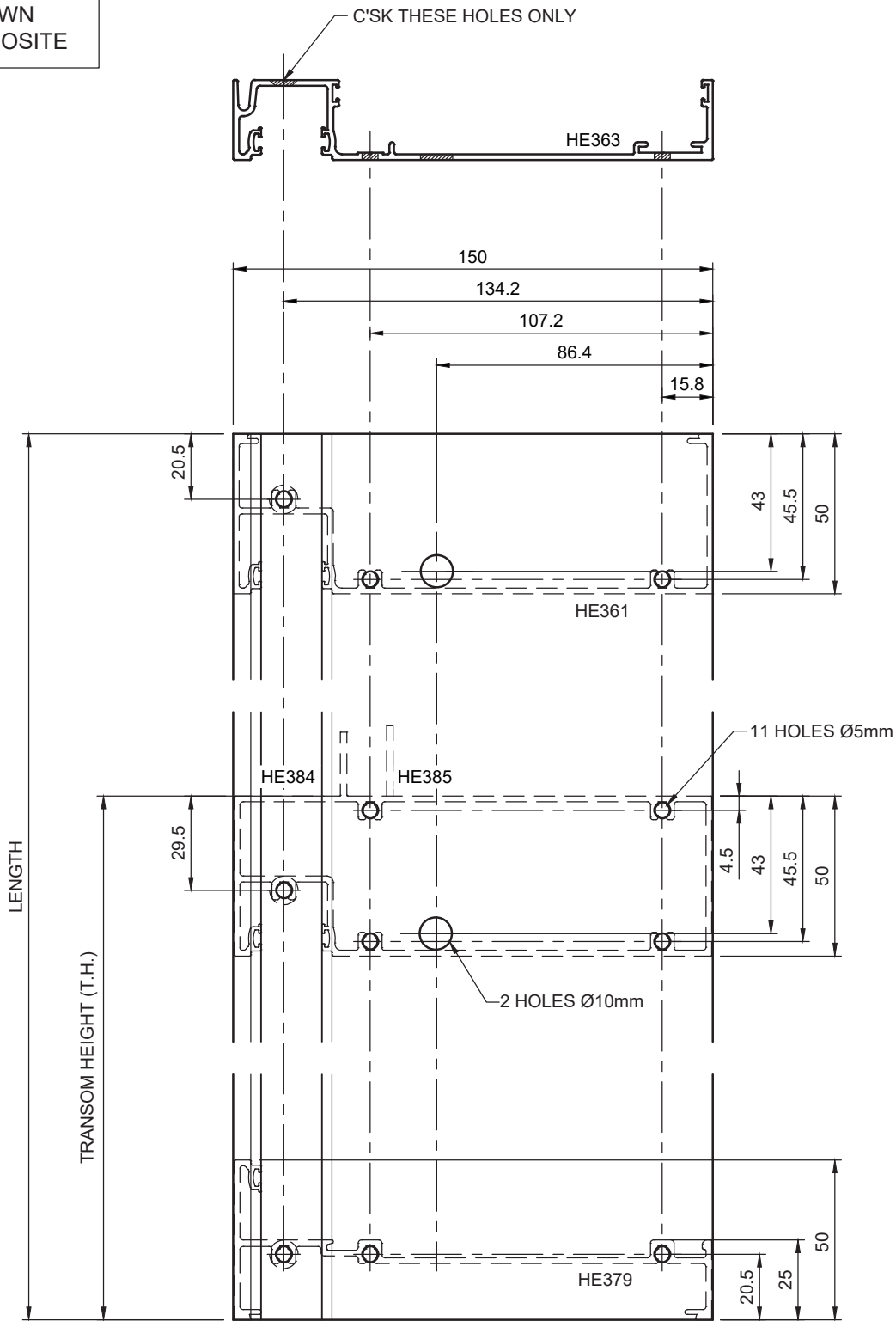
L.H. DRAWN
R.H. OPPOSITE



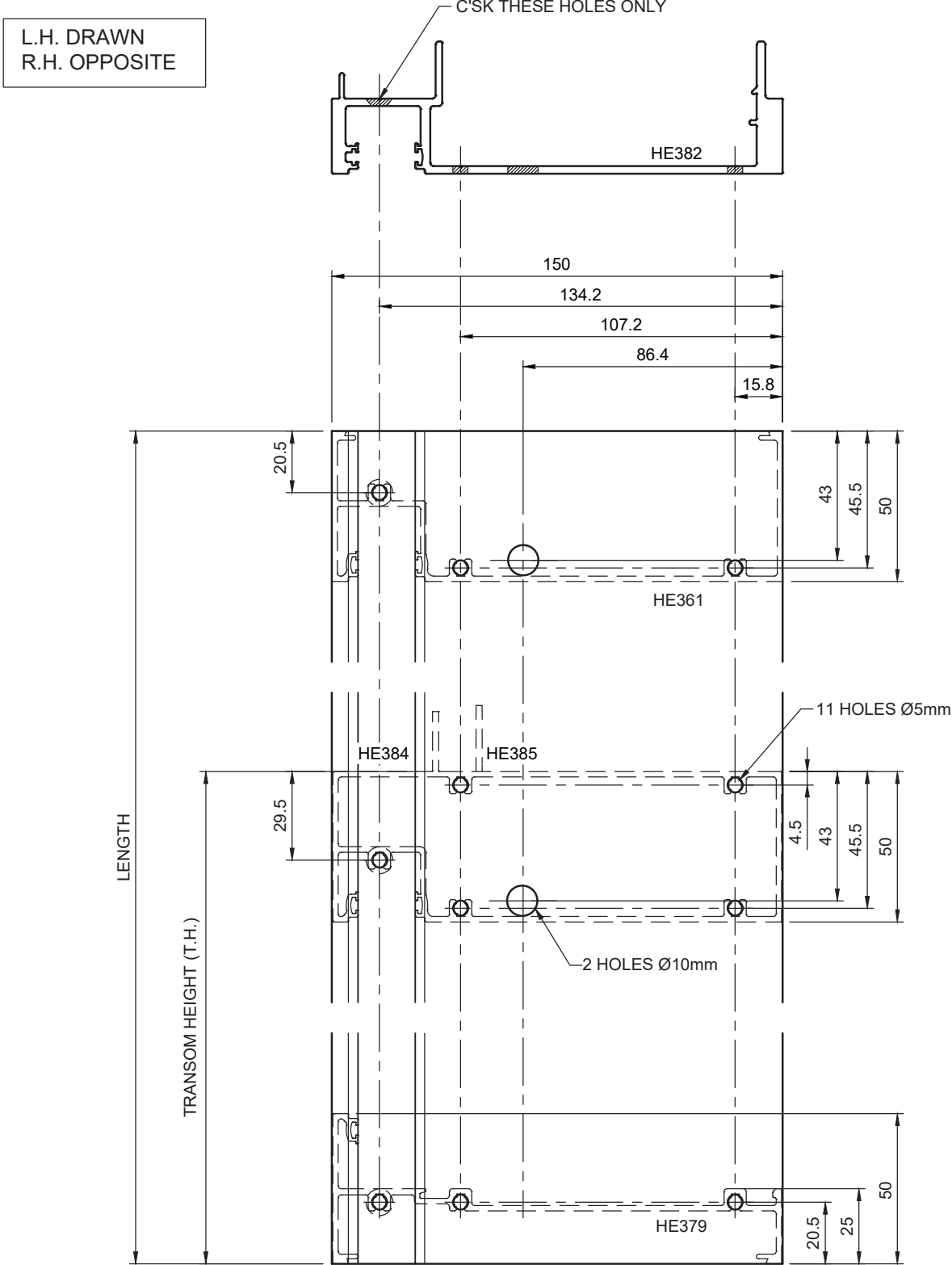
10. Manufacturing Details

Frame Preparation - Internal Glaze with Awning and Lowlite

L.H. DRAWN
R.H. OPPOSITE

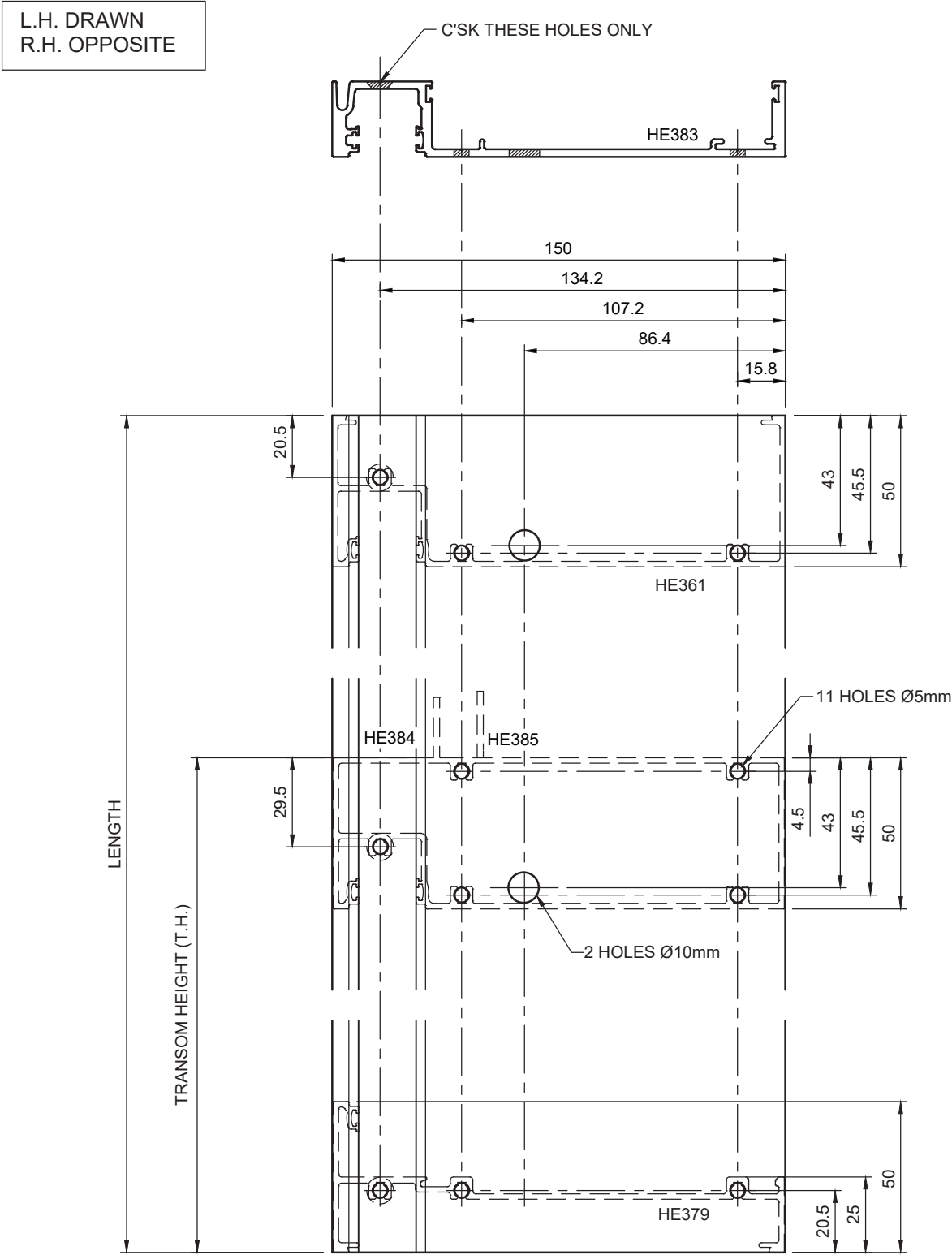


Frame Preparation - Internal Glaze with Awning and Lowlite

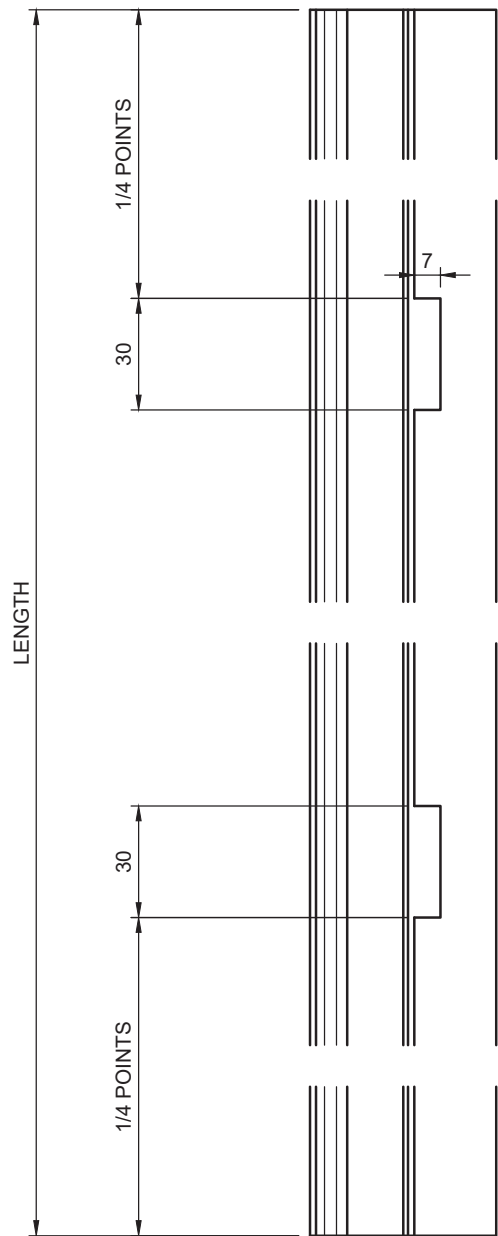
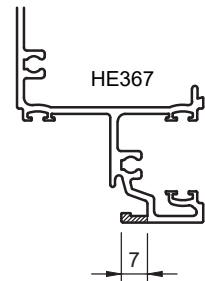


10. Manufacturing Details

Frame Preparation - Internal Glaze with Awning and Lowlite

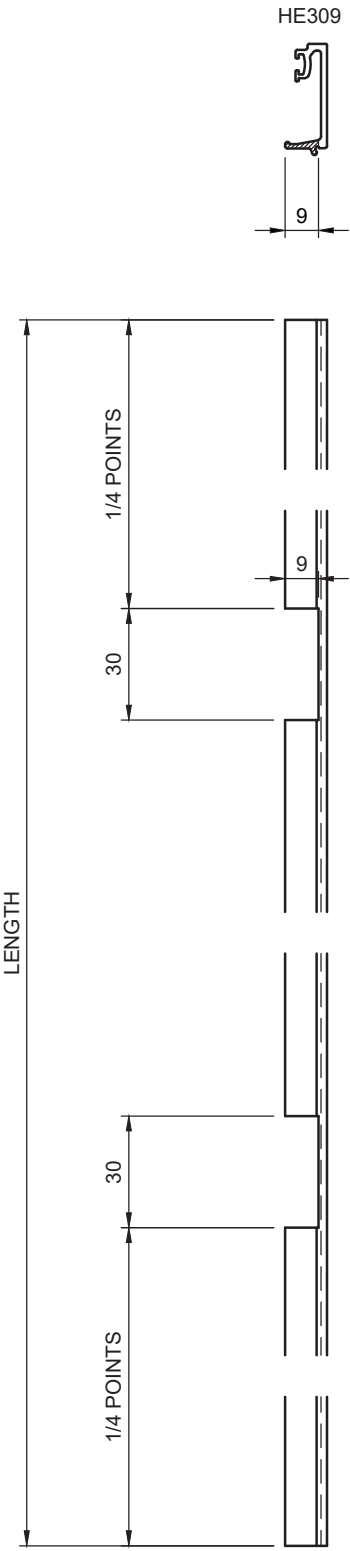


Drainage Preparation - HE367

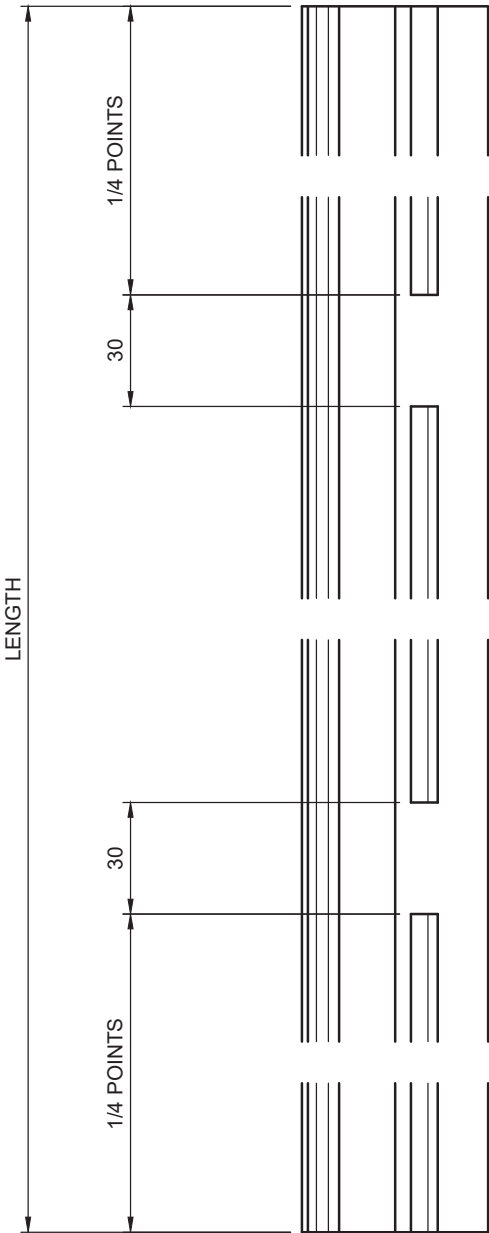
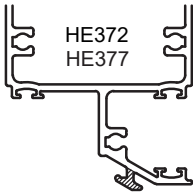


10. Manufacturing Details

Drainage Preparation - HE309

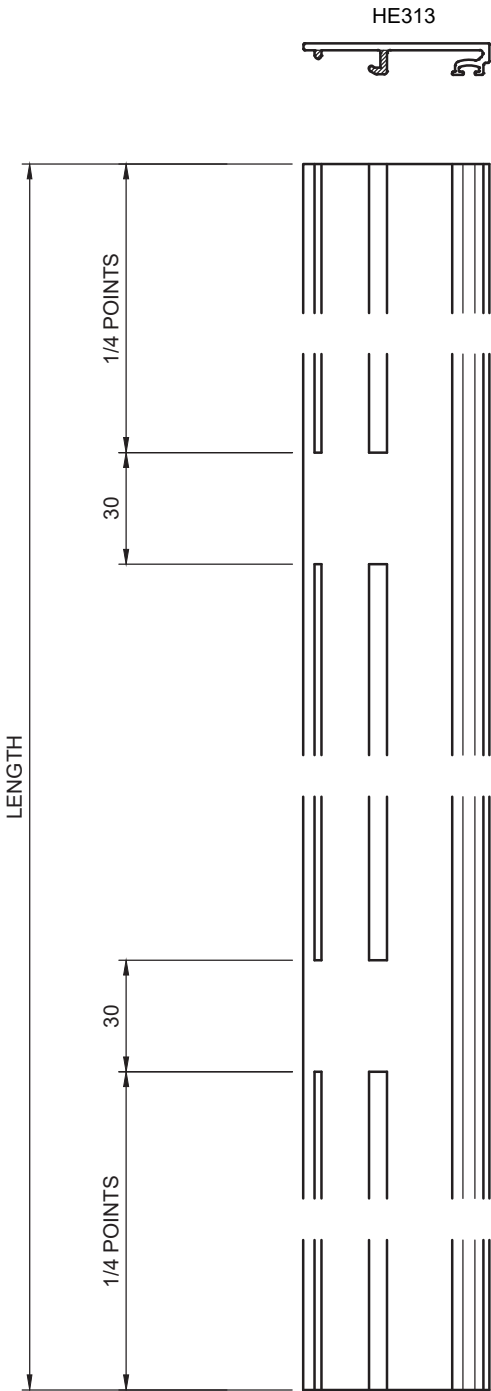


Drainage Preparation - External Glaze Transom

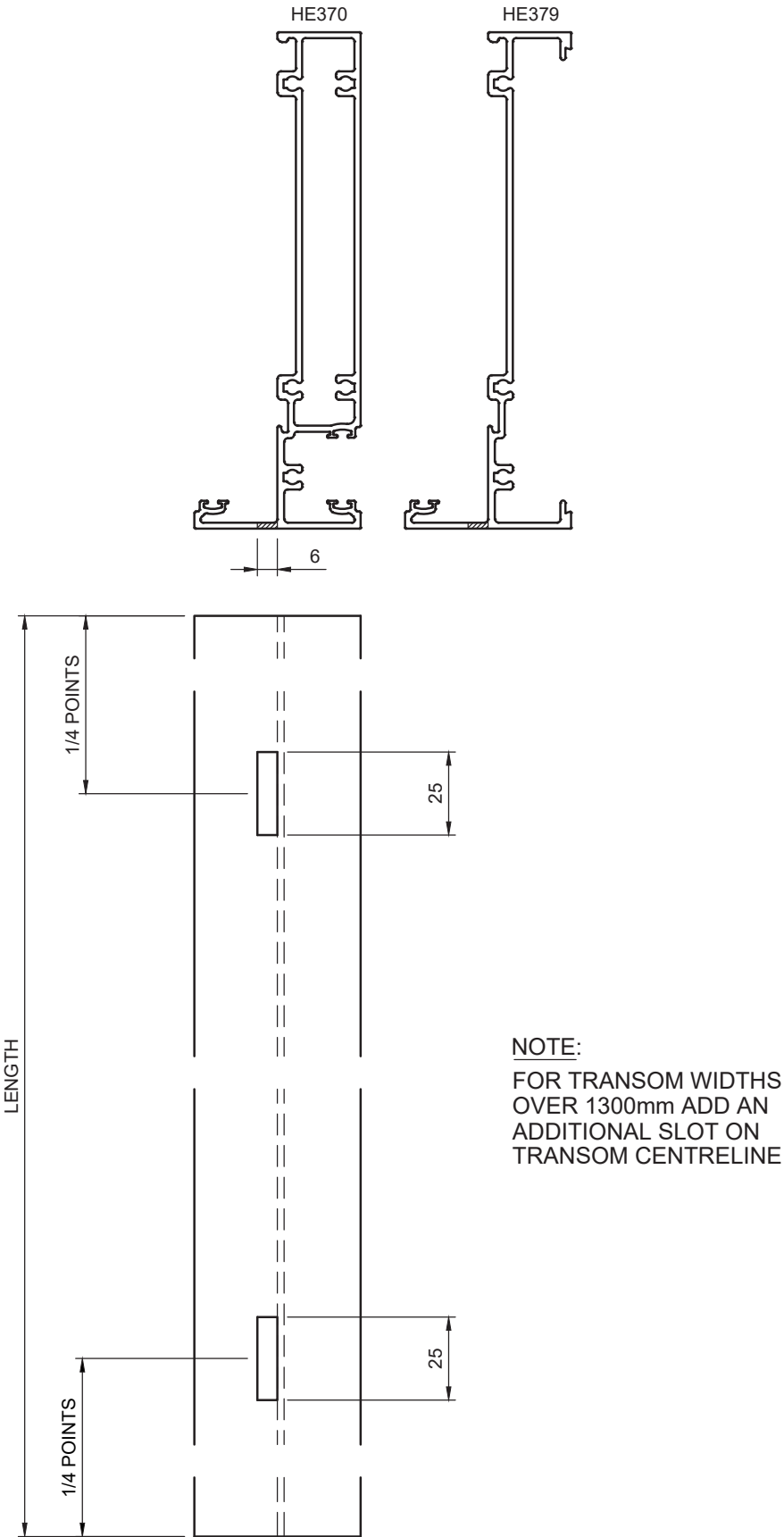


10. Manufacturing Details

Drainage Preparation - External Glaze Bead



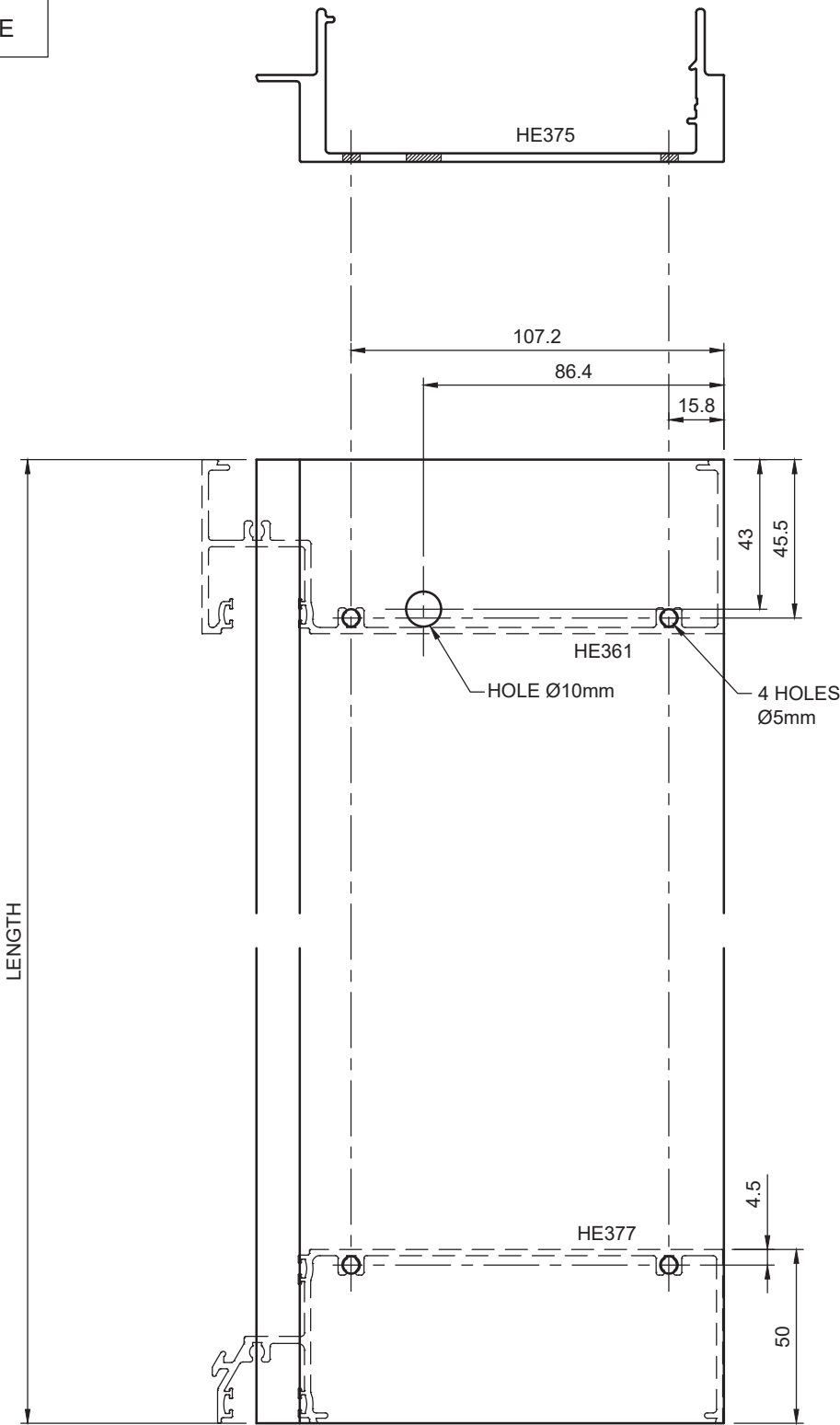
Drainage Preparation - Sill/ Transom Drainage



10. Manufacturing Details

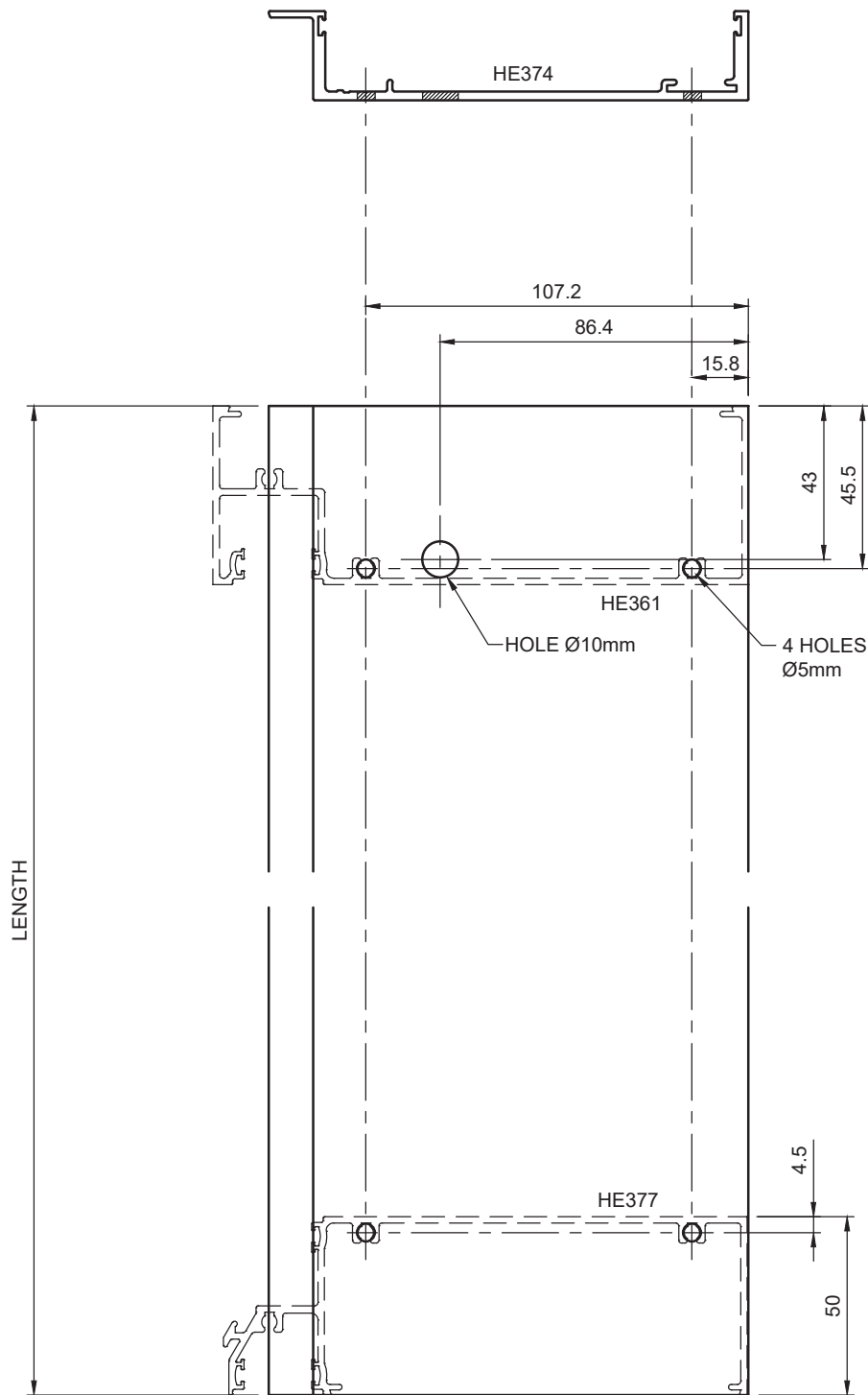
Typical SG Male Structural Mullion Preparation

L.H. DRAWN
R.H. OPPOSITE

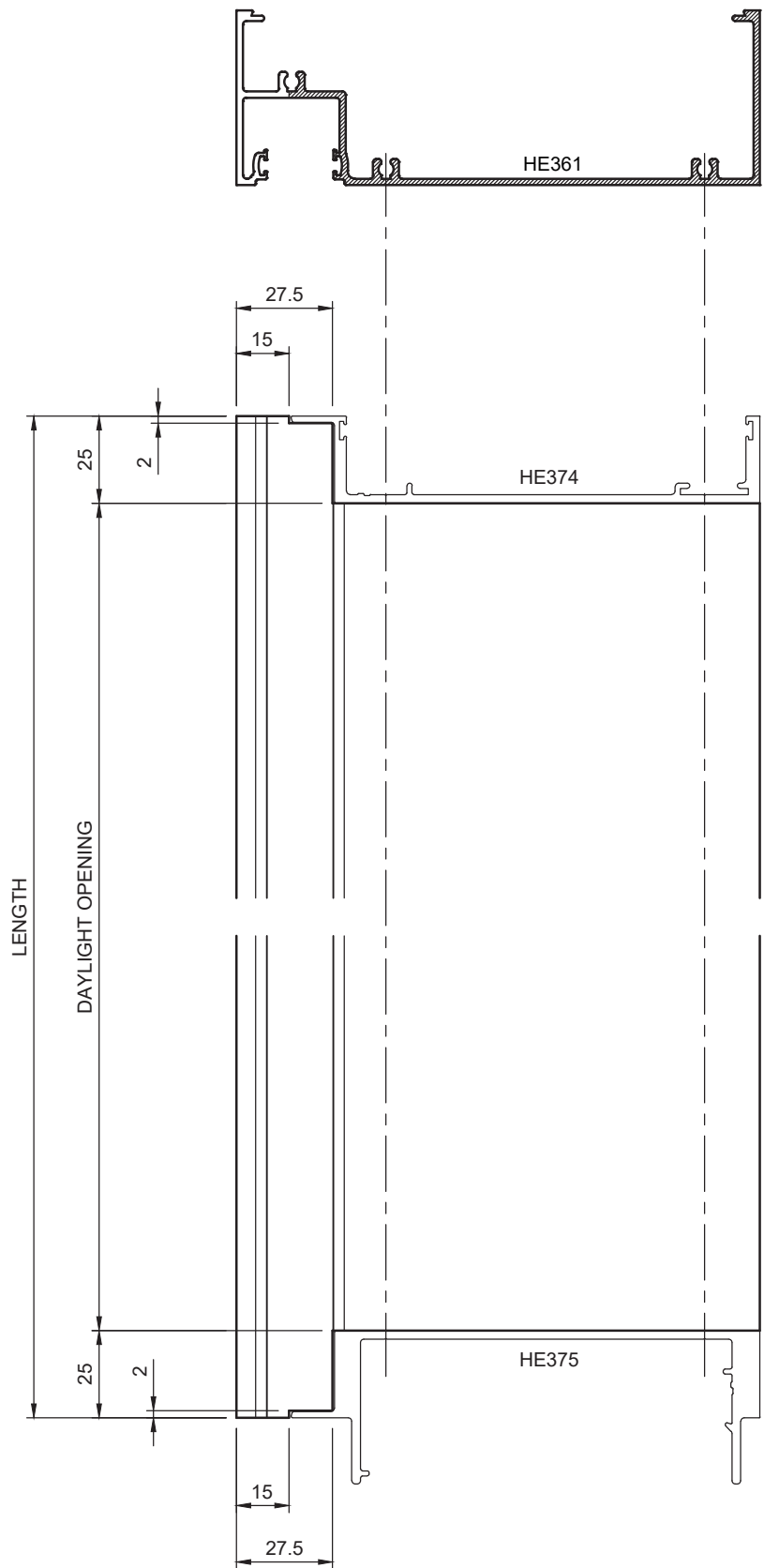


Typical SG Female Structural Mullion Preparation

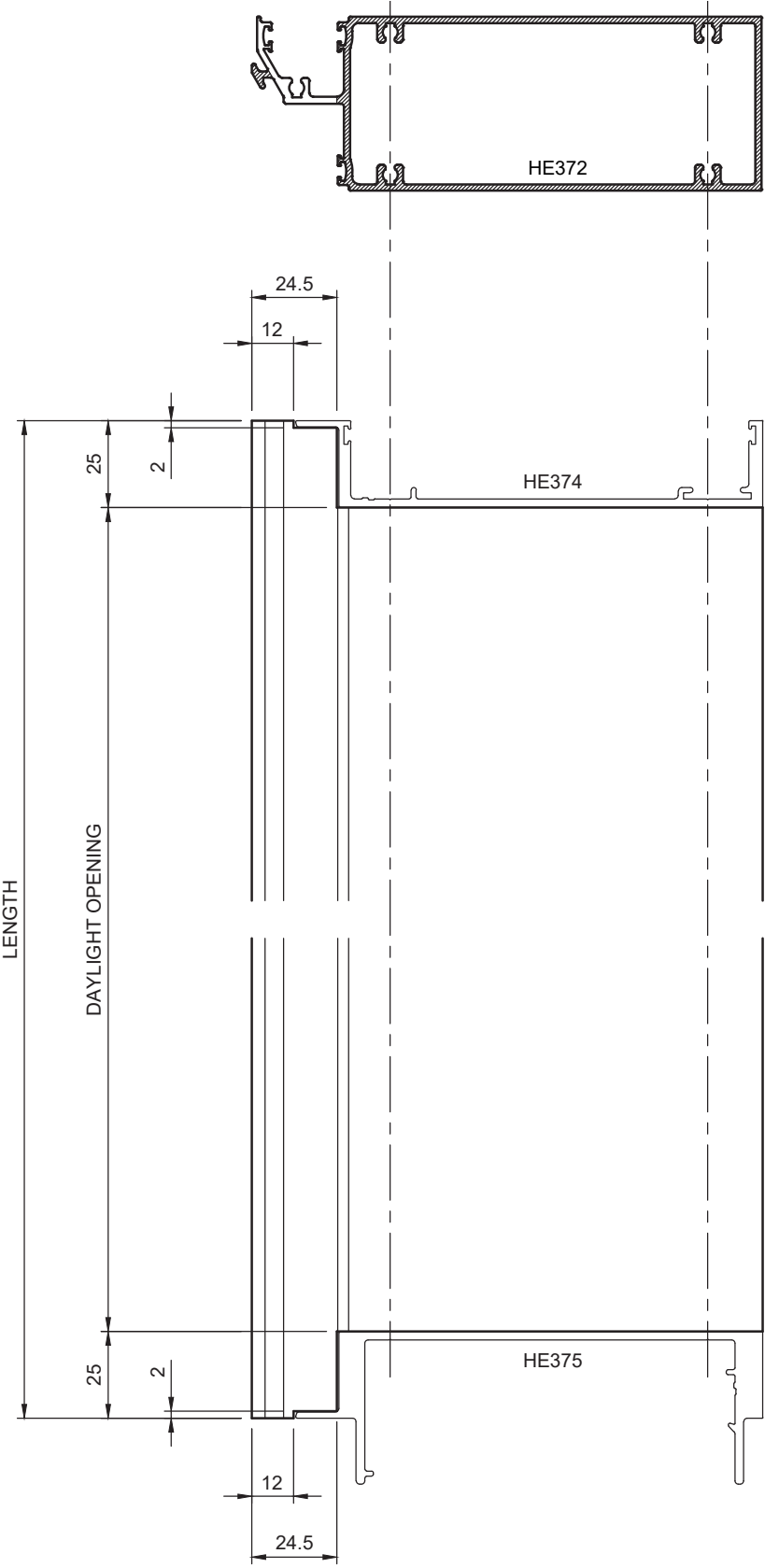
L.H. DRAWN
R.H. OPPOSITE



Frame Preparation - Head with Structural Mullions

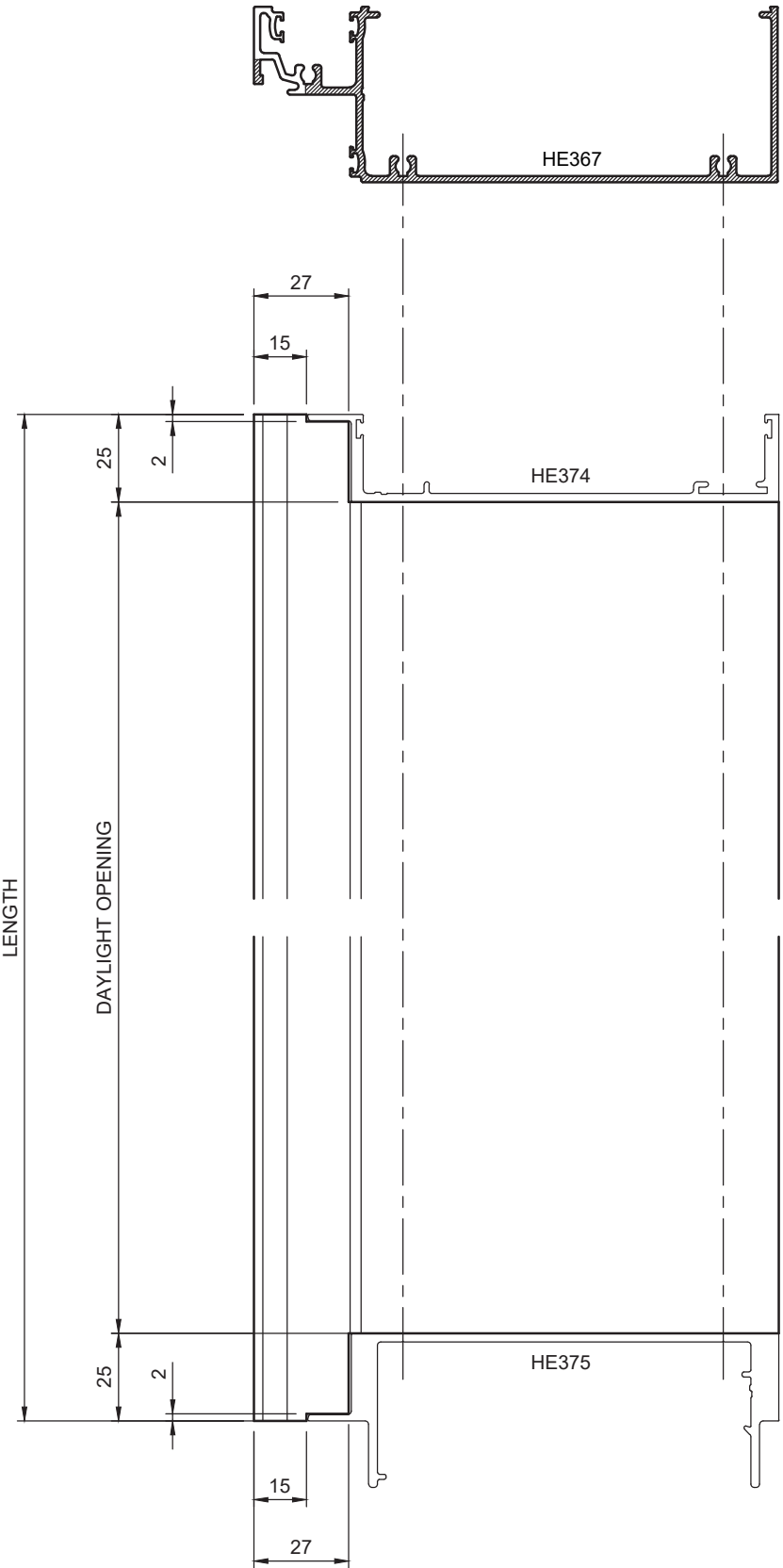


Frame Preparation - Transom with Structural Mullions

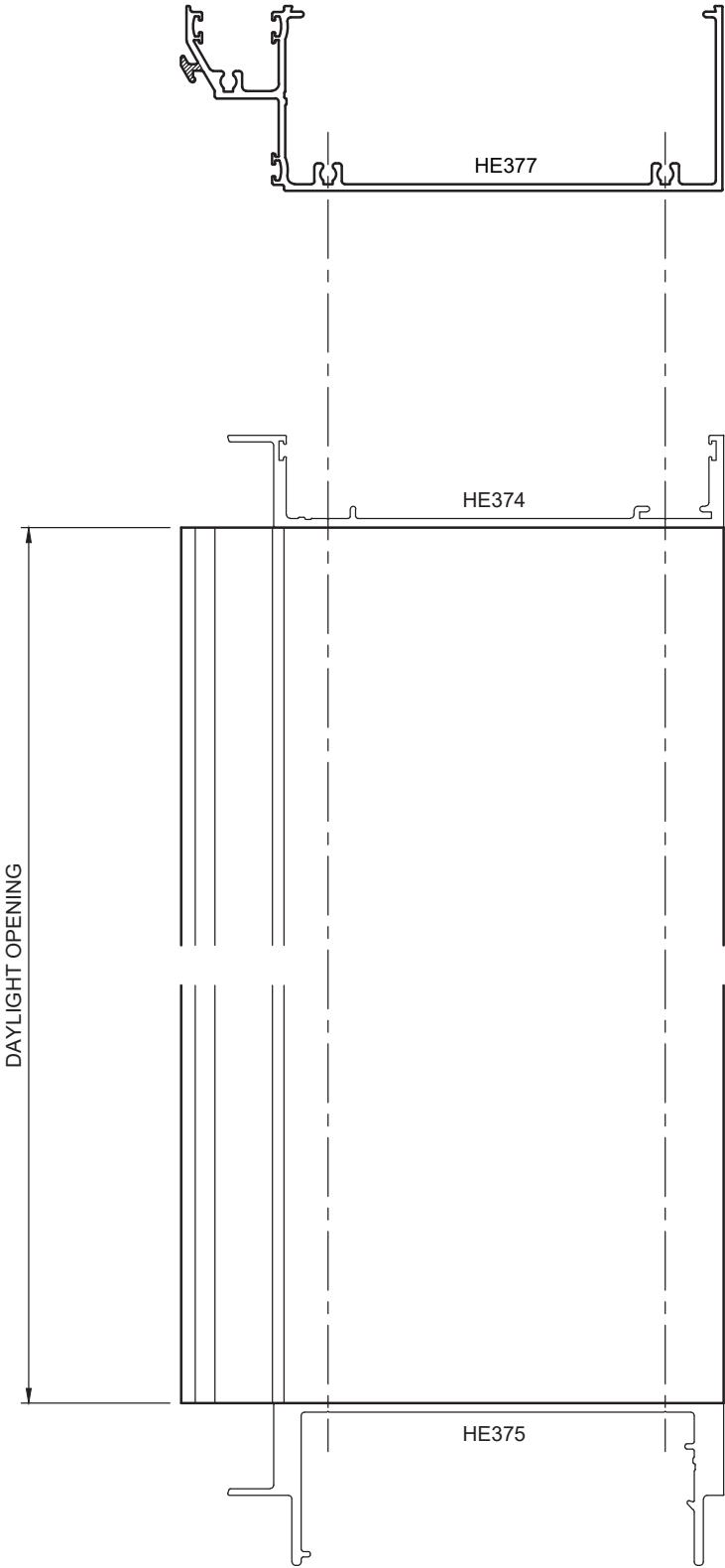


10. Manufacturing Details

Frame Preparation - Sill with Structural Mullions



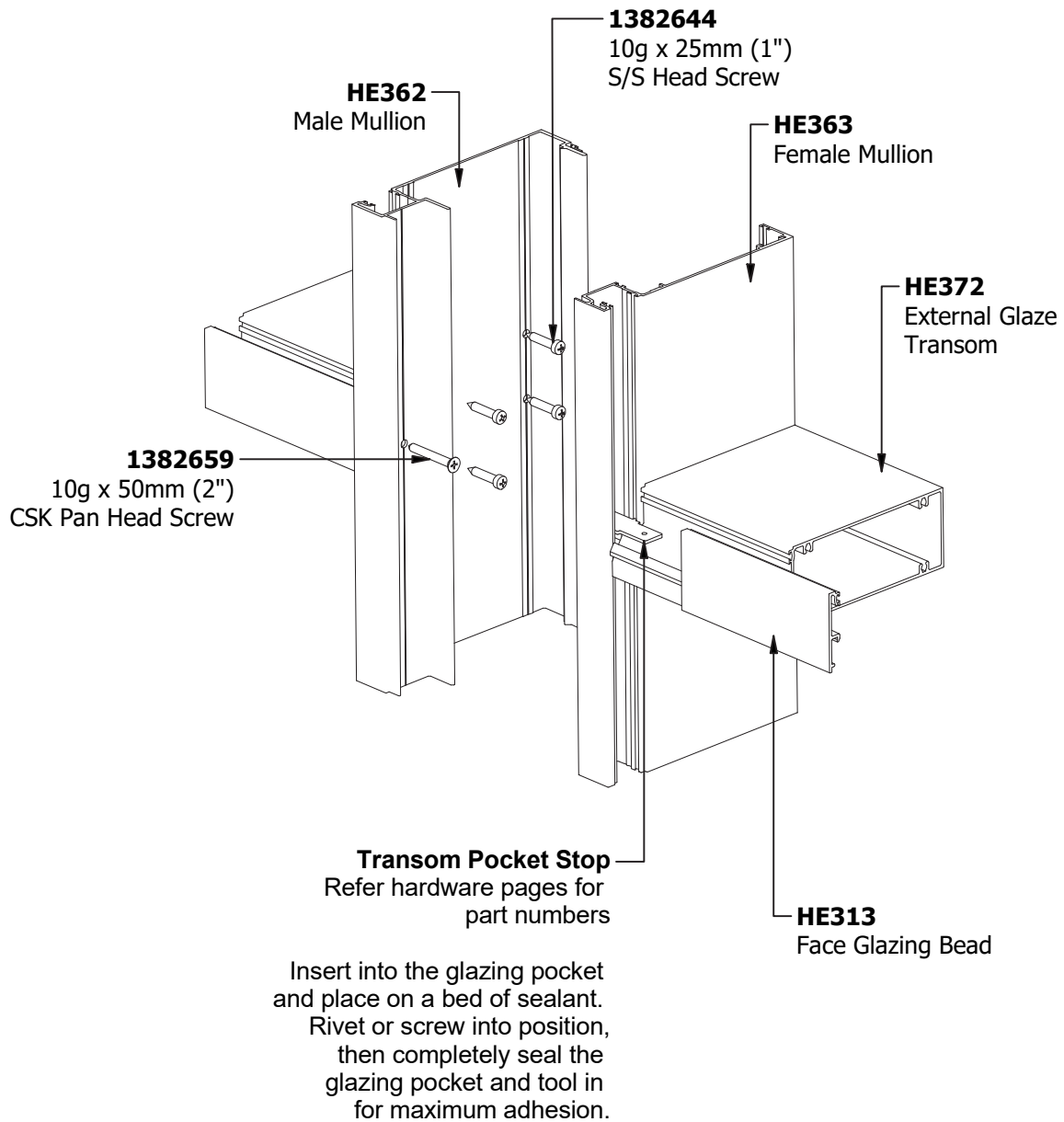
Frame Preparation - Sill with Structural Mullions





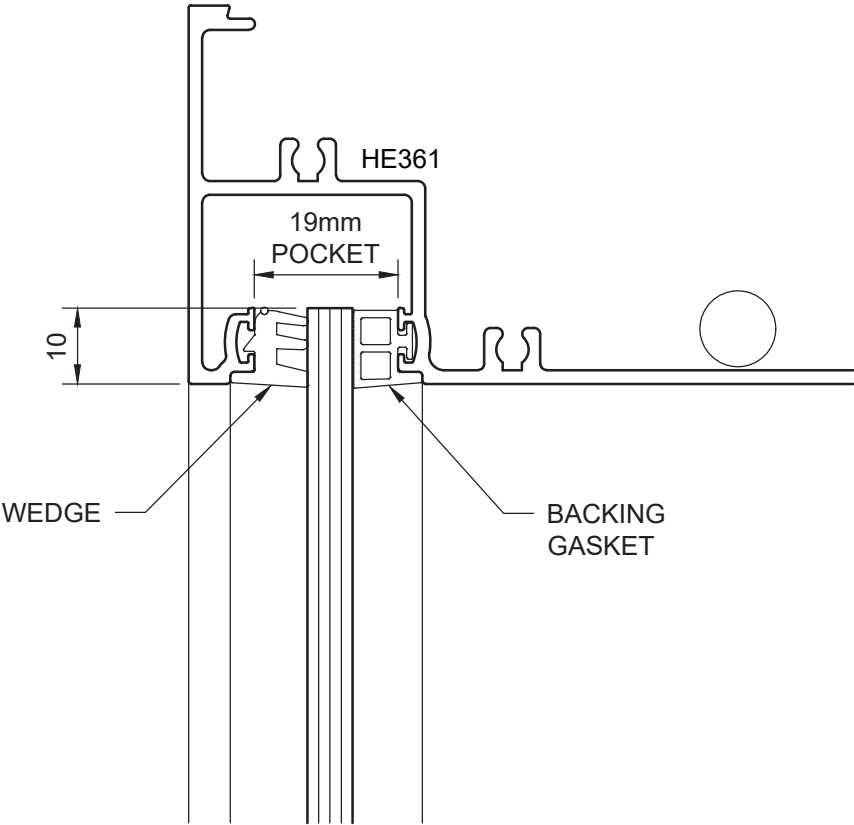
11. Assembly Details

Transom Assembly and Sealing Details



12. Glazing Details

Glazing Details - Captive

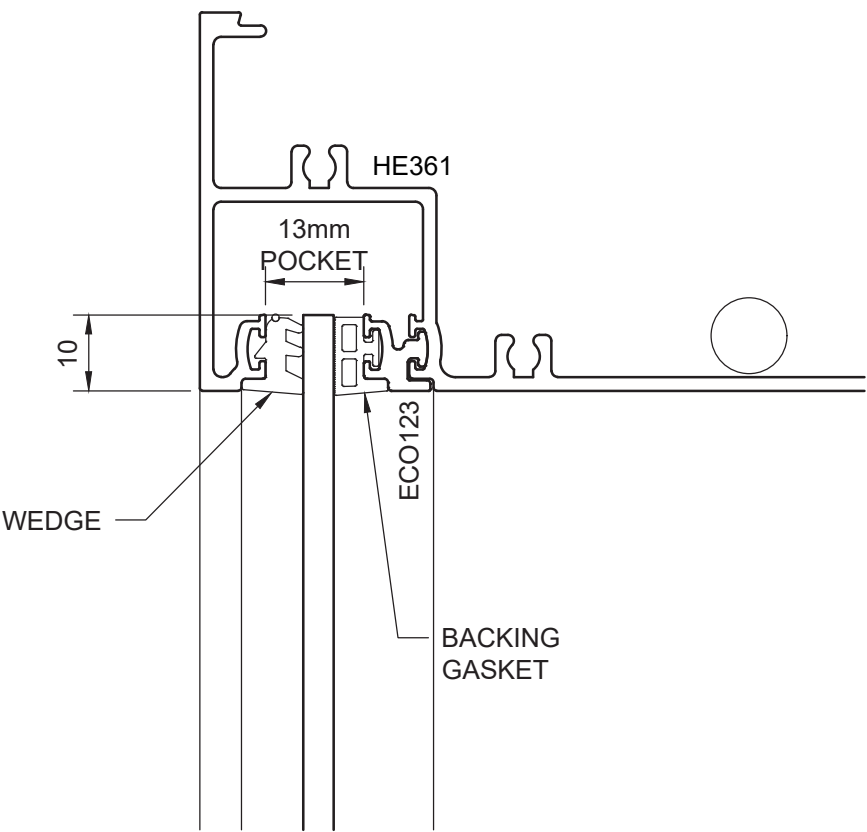


	WEDGE		PUSH IN BACKING GASKET	CO-EXTRUDED BACKING GASKET
GLASS THICKNESS	ID COLOUR	REF. (GAP)	REF. (GAP)	REF. (GAP)
6/6.38mm	RED	GR47 (7mm)	GR49 (6mm)	CE49 (6mm)
8/8.38mm	BLUE	GR45 (5mm)	GR49 (6mm)	CE49 (6mm)
10/10.38mm	BLUE	GR45 (5mm)	GR37 (4mm)	CE37 (4mm)
12/12.38mm	BLUE	GR45 (5mm)	GR36 (2mm)	CE36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

REVERSE GLAZING WEDGE COMBINATIONS FOR INTERNAL GLAZING

12. Glazing Details

Glazing Details - with ECO123 Glazing Adaptor



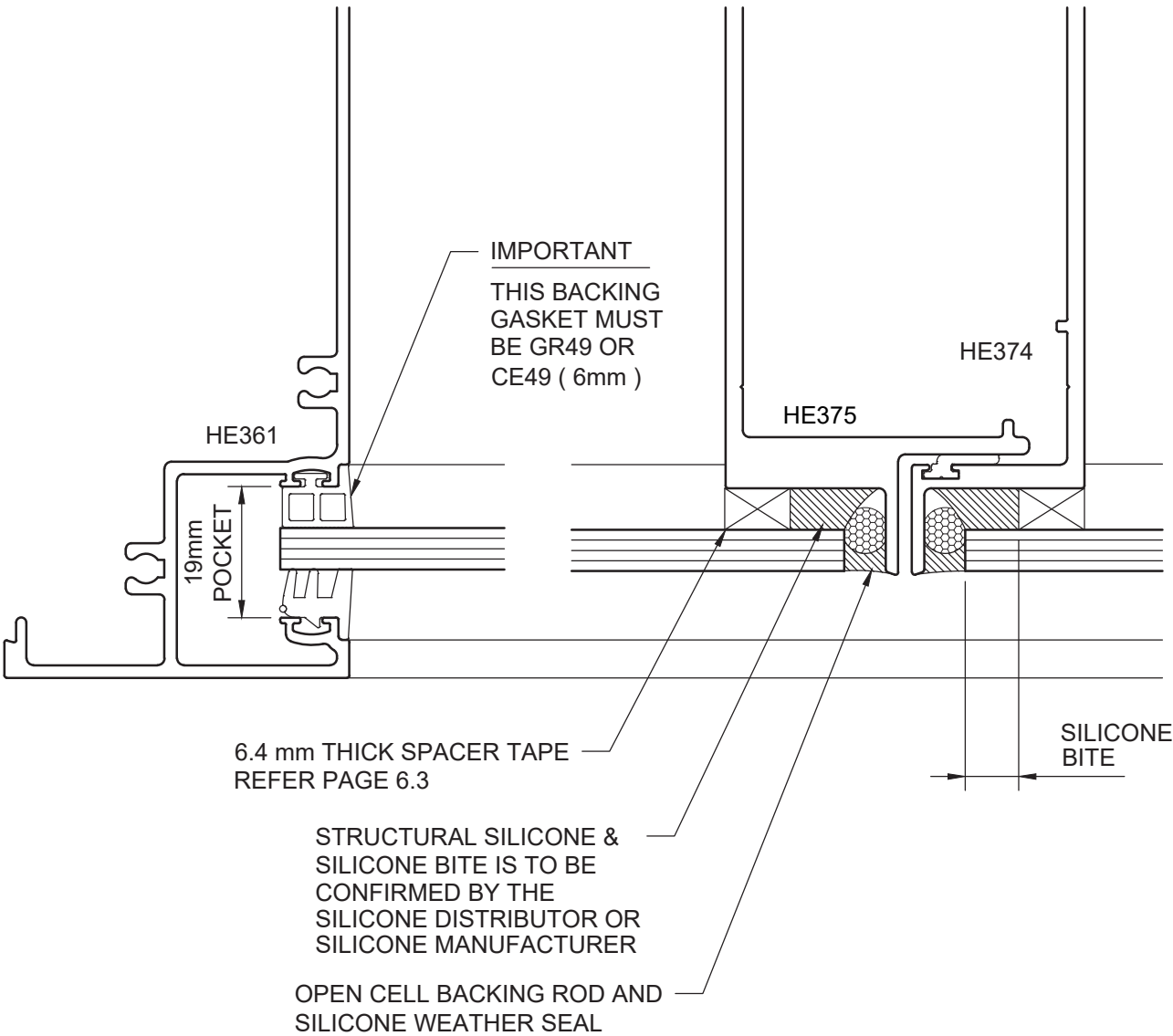
	WEDGE		PUSH IN BACKING GASKET	CO-EXTRUDED BACKING GASKET
GLASS THICKNESS	ID COLOUR	REF. (GAP)	REF. (GAP)	REF. (GAP)
4mm	BLUE	GR45 (5mm)	GR37 (4mm)	CE37 (4mm)
5mm	WHITE	GR44 (4mm)	GR37 (4mm)	CE37 (4mm)

REVERSE GLAZING WEDGE COMBINATIONS FOR INTERNAL GLAZING

12. Glazing Details

Glazing Details - Structural Glaze Mullion

NOTE: SYSTEM NOT DESIGNED TO BE USED FOUR SIDED STRUCTURAL GLAZED.

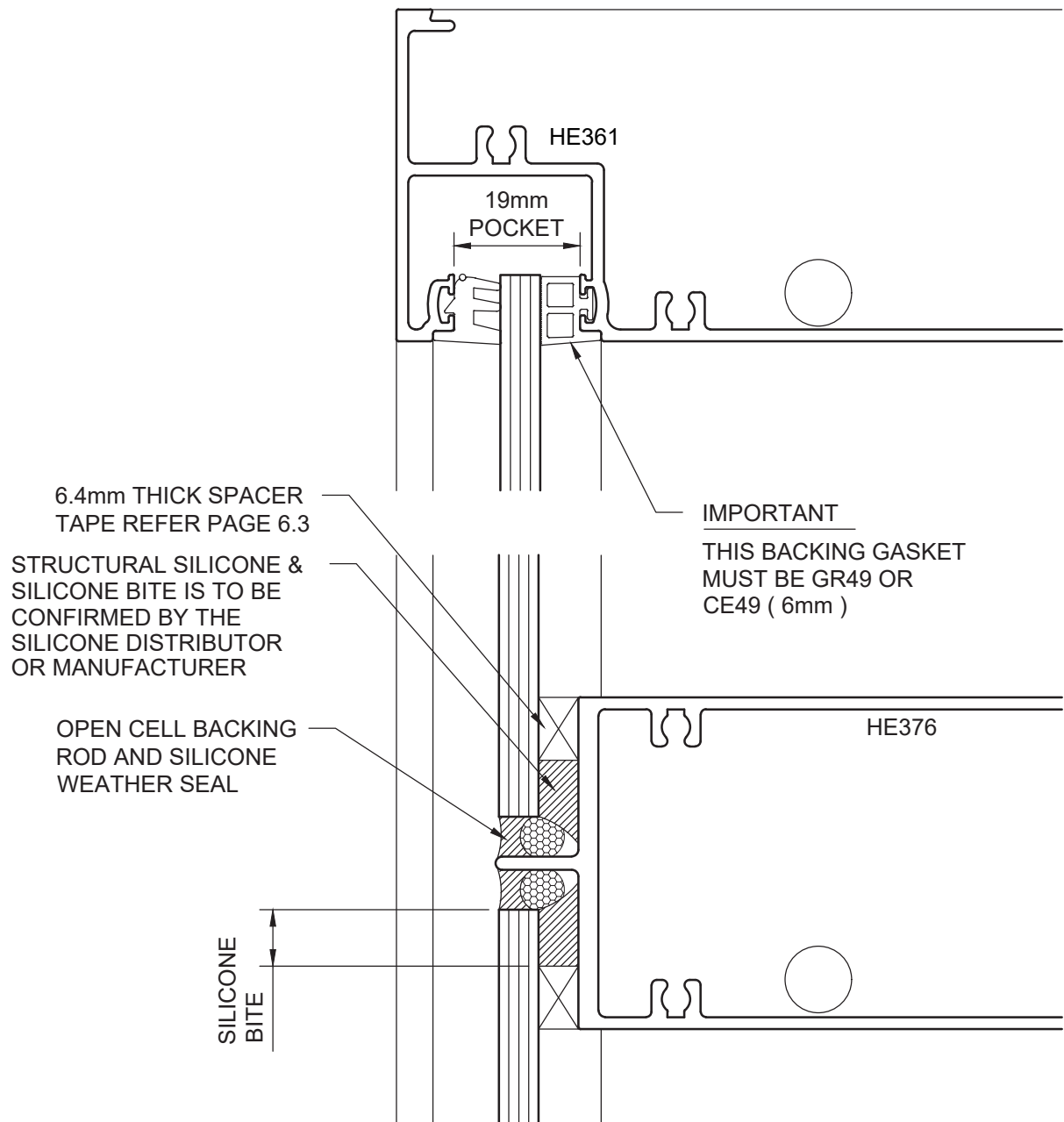


	WEDGE		PUSH IN BACKING GASKET	CO-EXTRUDED BACKING GASKET
GLASS THICKNESS	ID COLOUR	REF. (GAP)	REF. (GAP)	REF. (GAP)
6/6.38mm	RED	GR47 (7mm)	GR49 (6mm)	CE49 (6mm)
8/8.38mm	BLUE	GR45 (5mm)	GR49 (6mm)	CE49 (6mm)
10/10.38mm	BROWN	GR43 (3mm)	GR49 (6mm)	CE49 (6mm)

12. Glazing Details

Glazing Details - Structural Glazed Transom

NOTE: SYSTEM NOT DESIGNED TO BE USED FOUR SIDED STRUCTURAL GLAZED.



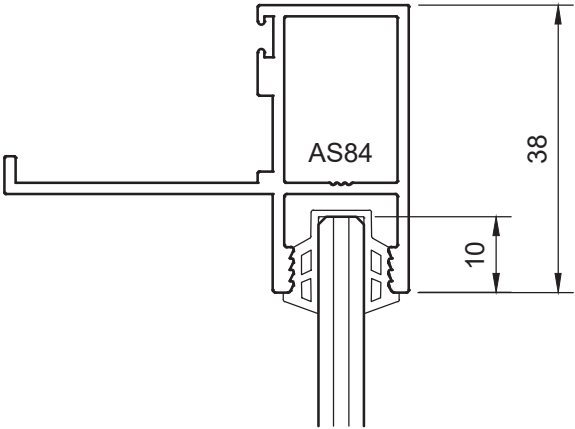
	WEDGE		PUSH IN BACKING GASKET	CO-EXTRUDED BACKING GASKET
GLASS THICKNESS	ID COLOUR	REF. (GAP)	REF. (GAP)	REF. (GAP)
6/6.38mm	RED	GR47 (7mm)	GR49 (6mm)	CE49 (6mm)
8/8.38mm	BLUE	GR45 (5mm)	GR49 (6mm)	CE49 (6mm)
10/10.38mm	BROWN	GR43 (3mm)	GR49 (6mm)	CE49 (6mm)



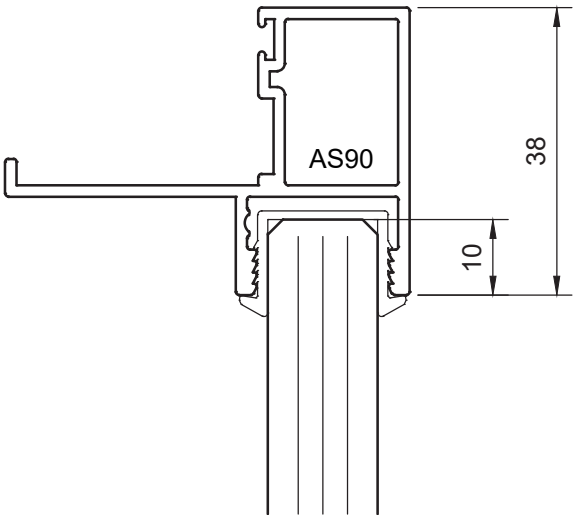
12. Glazing Details

Glazing Details - Inner Sashes

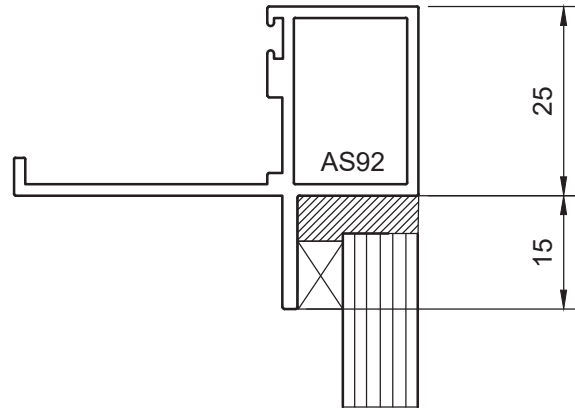
GLASS THICKNESS	GLAZING CHANNEL	CODE
5mm	GR60	1376033
6/ 6.38mm	GR61	1376044
8mm	GR62	1376029
10/ 10.38mm	GR63	1376035



GLASS THICKNESS	GLAZING CHANNEL	CODE
14.28mm	GR51	1313077
14.56mm	GR51	1313077



GLASS THICKNESS	GLAZING CHANNEL CODE
10mm	6.40mm THICK SPACER TAPE



FRAMING

Your new **Hunter Evo 150mm Single Flush Glazed Frames** 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 150mm Single Flush Glazed** frame will retain it's good looks and resist the elements for years to come.

The **Hunter Evo 150mm Single 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 150mm Single 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 150mm Single 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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