



Hunter Evo

Single Flush Glazed Framing



Hunter Evo

101.6mm Single Flush Glazed Framing

Technical Manual

February 2024 | ISSUE K

alspec[®]
EVERYTHING ALUMINIUM
& HARDWARE



Hunter Evo

Single Flush Glazed Framing

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1. Technical Manual Release Notes

This page is intended to record all changes to the **HUNTER EVO 101.6mm SINGLE FLUSH GLAZED FRAMING** technical manual pages.

Changes or additions to this manual will be itemised with a brief description and date when the amendments were made.

ISSUE	DATE	Amendment Description	Refer to Tech Memo #
A	04/2013	Technical manual initial release	
B	10/2014	Revised loading tables, test reports, extrusions & accessories	
C	09/2019	Technical manual update and re- release	348
D	06/2020	Loading table on page 3.6 added	383
E	10/2020	Silicone detail updated for Internal Glaze on pg 4.5, 4.6, 4.7 & 8.3	413
F	11/2020	Framing on pg 8.4 and seals on pg 6.2 updated	422
G	12/2020	Loading Tables updated to include flush adaptor on pg 3.8	427
H	06/2021	Amended AS2047 Test Drawings on Pages 4.1 - 4.6	472
I	08/2021	Added AS222 to Extrusions on page 5.11	482
J	08/2022	Added OT22-126 to Test Summary page 4.11	526
K	08/2023	Added OT.AC23-22 - 29 to Test Summary page 4.12	561

ALUMINIUM

Aluminium frames should be manufactured using Alspec's **HUNTER EVO 101.6mm 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 101.6mm SINGLE FLUSH GLAZED FRAMING** to suit standard & captive glazing options, refer glazing pages 12.1 to 12.4

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 requirement 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 SINGLE FLUSH GLAZED FRAMING** system should seek certification by a consultant structural engineer as to the framing being acceptable for the design wind pressure and deflection characteristics required of the site.

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

STEP 1 → **2400** (Panel Height)

STEP 2 → **1000** (Panel Width)

STEP 3 → **1450** (Maximum Design Pressure for Suction at 2400mm height and 1000mm width)

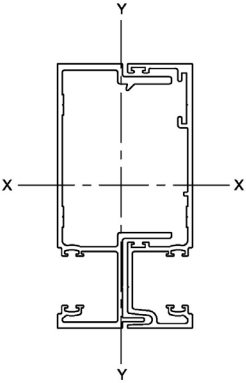
3. Loading Tables

HE302 + HE303 Mullion Combination

Max Stress = 110Mpa

S = Serviceability limit state l/250

U = Ultimate limit state

HE302 + HE303 MULLION COMBINATION	Panel Height	Maximum Design Pressure (Pa)						
	4200	S	570					
		U	1950					
	3900	S	720					
		U	2270					
	3600	S	910	620				
		U	2670	1800				
	3300	S	1190	800	620	510		
		U	3180	2150	1640	1350		
	3000	S	1590	1080	830	690	600	550
		U	3860	2620	2010	1660	1440	1300
	2700	S	2190	1490	1160	970	860	790
		U	4780	3250	2510	2090	1840	1680
	2400	S	3000	2160	1690	1440	1290	1210
		U	6080	4160	3240	2730	2440	2280
	2100	S	3000	3000	2610	2260	2090	2040
		U	7990	5520	4360	3750	3430	3330
	1800	S	3000	3000	3000	3000	3000	3000
		U	9000	7700	6210	5510	5290	5180
Ixx = 1198 x 10³ mm⁴	Mullion Spacing		600	900	1200	1500	1800	2100
							2400	

Tables are based on theoretical section properties

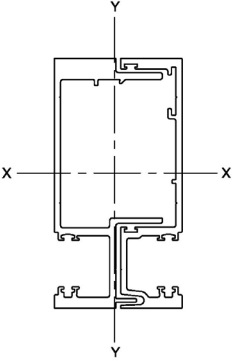
3. Loading Tables

HE322 + HE323 H.D. Mullion Combination

Max Stress = 110Mpa

S = Serviceability limit state l/250

U = Ultimate limit state

HE322 + HE323 H.D. MULLION COMBINATION	Panel Height	Maximum Design Pressure (Pa)						
		S	U	S	U	S	U	S
	4500	710						
		2500						
	4200	870	590					
		2870	1930					
	3900	1090	730	560				
		3330	2240	1700				
	3600	1390	940	720	590	500		
		3920	2640	2010	1640	1410		
	3300	1810	1230	940	770	670	600	560
		4670	3160	2410	1980	1710	1520	1400
	3000	2420	1640	1270	1050	920	830	780
		5670	3840	2950	2440	2110	1910	1770
	2700	3000	2280	1770	1480	1310	1200	1150
		7020	4780	3690	3070	2700	2470	2340
	2400	3000	3000	2580	2190	1970	1850	1810
		8920	6110	4760	4020	3580	3350	3270
	2100	3000	3000	3000	3000	3000	3000	3000
		9000	8100	6400	5500	5040	4890	4650
	1800	3000	3000	3000	3000	3000	3000	3000
		9000	9000	9000	8080	7770	7380	7010
$I_{xx} = 1782 \times 10^3 \text{ mm}^4$	Mullion Spacing	600	900	1200	1500	1800	2100	2400

Tables are based on theoretical section properties

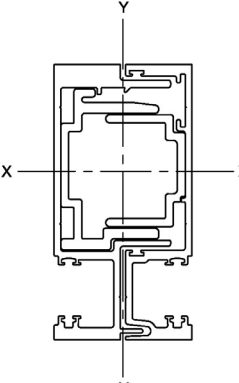
3. Loading Tables

HE322 + HE323 & HE328 + HE329 H.D. Mullion Combination

Max Stress = 110MPa

S = Serviceability limit state l/250

U = Ultimate limit state

HE322 + HE323 & HE328 + HE329 H.D. MULLION COMBINATION	Panel Height	Maximum Design Pressure (Pa)							
	4500	S	800	540					
		U	2830	1900					
	4200	S	990	660	500				
		U	3250	2190	1660				
	3900	S	1240	830	630	520			
		U	3780	2540	1930	1570			
	3600	S	1580	1070	810	670	570	510	
		U	4440	2990	2280	1870	1600	1410	
	3300	S	2050	1390	1070	880	760	680	630
		U	5300	3580	2740	2250	1930	1730	1590
	3000	S	2740	1860	1440	1190	1040	940	880
		U	6420	4350	3350	2760	2400	2160	2010
	2700	S	3000	2580	2010	1680	1480	1370	1300
		U	7960	5420	4190	3490	3060	2800	2650
	2400	S	3000	3000	2920	2480	2230	2100	2060
		U	9000	6930	5400	4550	4060	3800	3710
	2100	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	7260	6230	5710	5540	5480
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	8810	8370	7950
I_{xx} = 2068 x 10³ mm⁴	Mullion Spacing		600	900	1200	1500	1800	2100	2400

Tables are based on theoretical section properties

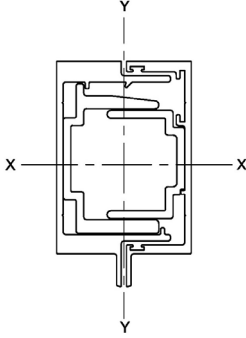
3. Loading Tables

HE314 + HE315 & HE328 + HE326 Structurally Glazed Mullion Combination

Max Stress = 110Mpa

S = Serviceability limit state l/250

U = Ultimate limit state

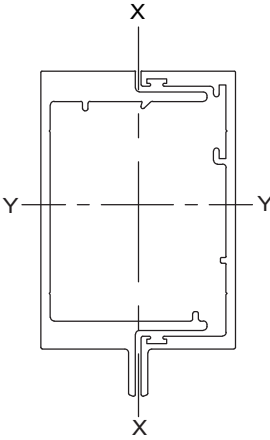
HE314 + HE315 & HE328 + HE326 STRUCT. GL. MULLION COMBINATION	Panel Height	Maximum Design Pressure (Pa)							
	4200	S	560						
		U	2030						
	3900	S	710						
		U	2360						
	3600	S	900	610					
		U	2780	1870					
	3300	S	1170	790	610	500			
		U	3310	2240	1710	1400			
	3000	S	1570	1060	820	680	590	540	500
		U	4020	2720	2090	1730	1500	1350	1260
	2700	S	2160	1470	1140	960	850	780	740
		U	4980	3390	2620	2180	1910	1750	1660
	2400	S	3000	2130	1670	1420	1270	1200	1170
		U	6330	4330	3380	2850	2540	2370	2320
	2100	S	3000	3000	2570	2230	2060	2010	1980
		U	8320	5750	4540	3900	3570	3470	3400
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	8010	6470	5730	5510	5240	4980
$I_{xx} = 1181 \times 10^3 \text{ mm}^4$	Mullion Spacing		600	900	1200	1500	1800	2100	2400

Tables are based on theoretical section properties

3. Loading Tables

HE314 + HE315 Mullion Combination

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

HE314+ HE315 MULLION COMBINATION	Panel Height	Maximum Design Pressure (Pa)							
	4200	S	430						
		U	1560						
	3900	S	540						
		U	1810						
	3600	S	690	470					
		U	2130	1430					
	3300	S	900	610	470				
		U	2540	1710	1310				
	3000	S	1210	820	630	520	460	410	
		U	3080	2090	1600	1320	1150	1030	
	2700	S	1670	1140	880	740	650	600	570
		U	3820	2600	2010	1670	1470	1340	1270
	2400	S	2390	1640	1290	1090	980	920	910
		U	4850	3320	2590	2180	1950	1820	1780
	2100	S	3000	2500	1990	1720	1590	1550	1590
		U	6380	4410	3480	2990	2740	2660	2750
	1800	S	3000	3000	3000	2980	2870	2980	3000
		U	8780	6140	4960	4400	4220	4420	5180
$I_{xx} = 909 \times 10^3 \text{ mm}^4$	Mullion Spacing		600	900	1200	1500	1800	2100	2400

Tables are based on theoretical section properties

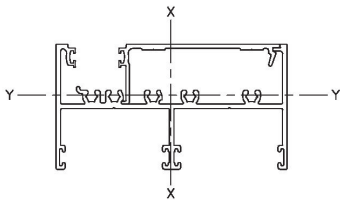
3. Loading Tables

HE883 + HE332 Transom

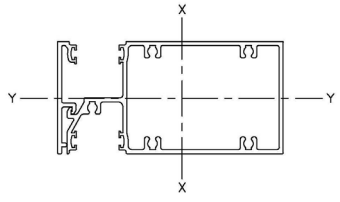
Max Stress = 110Mpa

S = Serviceability limit state I/250

U = Ultimate limit state

HE883 + HE332 TRANSOM	Transom Centres	Maximum Design Loads (Pa)					
	2400	S	3000	3000	2460		
		U	9000	5460	3330		
	2100	S	3000	3000	2590		
		U	9000	5750	3500		
	1800	S	3000	3000	2730	1510	
		U	9000	6060	3690	2390	
	1500	S	3000	3000	2830	1640	
		U	9000	6380	3840	2610	
	1200	S	3000	3000	3000	1890	1220
		U	9000	6760	4330	3040	2260
	900	S	3000	3000	3000	2370	1560
		U	9000	8060	5370	3850	2900
	Max Kg		180	140	80	50	35
$I_{xx} = 867 \times 10^3 \text{ mm}^4$ $I_{yy} = 108 \times 10^3 \text{ mm}^4$	Transom length		1200	1500	1800	2100	2400

HE312 + HE313 Transom

HE312 + HE313 TRANSOM	Transom Centres	Maximum Design Loads (Pa)						
	2400	S	3000	2850	1850	1130		
		U	9000	4240	2580	1860		
	2100	S	3000	3000	1940	1110	660	
		U	9000	4460	2720	1800	1230	
	1800	S	3000	3000	2050	1130	700	
		U	9000	4700	2860	1850	1320	
	1500	S	3000	3000	2130	1230	780	530
		U	9000	4950	2980	2020	1480	1130
	1200	S	3000	3000	2370	1420	920	630
		U	9000	5240	3360	2360	1750	1360
	900	S	3000	3000	2910	1780	1170	810
		U	9000	6250	4160	2990	2250	1760
	Max Kg		180	180	180	115	75	55
$I_{xx} = 652 \times 10^3 \text{ mm}^4$ $I_{yy} = 235 \times 10^3 \text{ mm}^4$	Transom length		1200	1500	1800	2100	2400	2700

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.

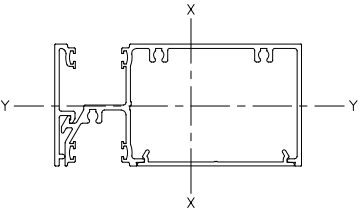
3. Loading Tables

HE317 + HE313 + AS304 Transom

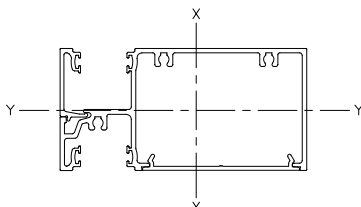
Max Stress = 110Mpa

S = Serviceability limit state 1/250

U = Ultimate limit state

HE317 + HE313 + AS304 TRANSOM	Transom Centres	Maximum Design Loads (Pa)					
	2400	S	3000	3000	1640		
		U	7150	3850	2340		
	2100	S	3000	3000	1720	980	
		U	7520	4050	2470	1630	
	1800	S	3000	3000	1820	1000	
		U	7920	4260	2600	1680	
	1500	S	3000	3000	1880	1090	690
		U	8340	4490	2700	1840	1340
	1200	S	3000	3000	2100	1250	810
		U	8780	4760	3050	2140	1590
	900	S	3000	3000	2580	1580	1040
		U	9000	5670	3780	2710	2040
	Max Kg		180	180	110	70	45
$I_{xx} = 577 \times 10^3 \text{ mm}^4$ $I_{yy} = 144 \times 10^3 \text{ mm}^4$	Transom length		1200	1500	1800	2100	2400

HE307 + HE309 + AS304 Transom

HE307 + HE309 + AS304 TRANSOM	Transom Centres	Maximum Design Loads (Pa)					
	2400	S	3000	2850	1850		
		U	9000	4240	2580		
	2100	S	3000	3000	1940	1110	
		U	9000	4460	2720	1800	
	1800	S	3000	3000	2050	1130	
		U	9000	4700	2860	1850	
	1500	S	3000	3000	2130	1230	780
		U	9000	4950	2980	2020	1480
	1200	S	3000	3000	2370	1420	920
		U	9000	5240	3360	2360	1750
	900	S	3000	3000	2910	1780	1170
		U	9000	6250	4160	2990	2250
	Max Kg		180	180	125	75	50
$I_{xx} = 657 \times 10^3 \text{ mm}^4$ $I_{yy} = 158 \times 10^3 \text{ mm}^4$	Transom length		1200	1500	1800	2100	2400

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.

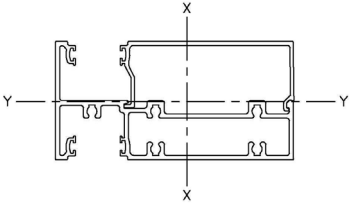
3. Loading Tables

HE310 + HE311 Transom

Max Stress = 110Mpa

S = Serviceability limit state I/250

U = Ultimate limit state

HE310 + HE311 TRANSOM	Transom Centres	Maximum Design Loads (Pa)					
	2400	S	3000	3000	2140		
		U	9000	4550	2770		
	2100	S	3000	3000	2260		
		U	9000	4790	2920		
	1800	S	3000	3000	2380	1310	
		U	9000	5040	3070	1990	
	1500	S	3000	3000	2460	1420	
		U	9000	5310	3190	2170	
	1200	S	3000	3000	2750	1640	
		U	9000	5620	3600	2530	
	900	S	3000	3000	3000	2060	1360
		U	9000	6700	4470	3200	2410
	Max Kg		180	130	80	50	30
$I_{xx} = 755 \times 10^3 \text{ mm}^4$ $I_{yy} = 101 \times 10^3 \text{ mm}^4$	Transom length		1200	1500	1800	2100	2400

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.

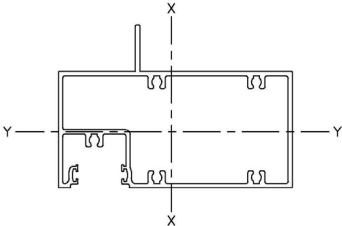
3. Loading Tables

HE324 Transom SG 35mm Sash

Max Stress = 110MPa

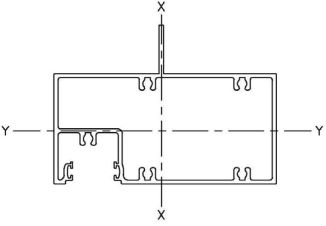
S = Serviceability limit state l/250

U = Ultimate limit state

HE324 TRANSOM SG 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	
		U	9000	9000	9000	9000	8330	6970
	900	S	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	8300
	Max Kg		-	-	-	-	-	-
	Transom length		1000	1100	1200	1300	1400	1500

$I_{xx} = 885 \times 10^3 \text{ mm}^4$
 $I_{yy} = 320 \times 10^3 \text{ mm}^4$

HE325 Transom SG 50mm Sash

HE325 TRANSOM 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	
		U	9000	9000	9000	9000	8300	6940
	900	S	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	8280
	Max Kg		-	-	-	-	-	-
	Transom length		1200	1500	1800	2100	2400	2700

$I_{xx} = 877 \times 10^3 \text{ mm}^4$
 $I_{yy} = 328 \times 10^3 \text{ mm}^4$

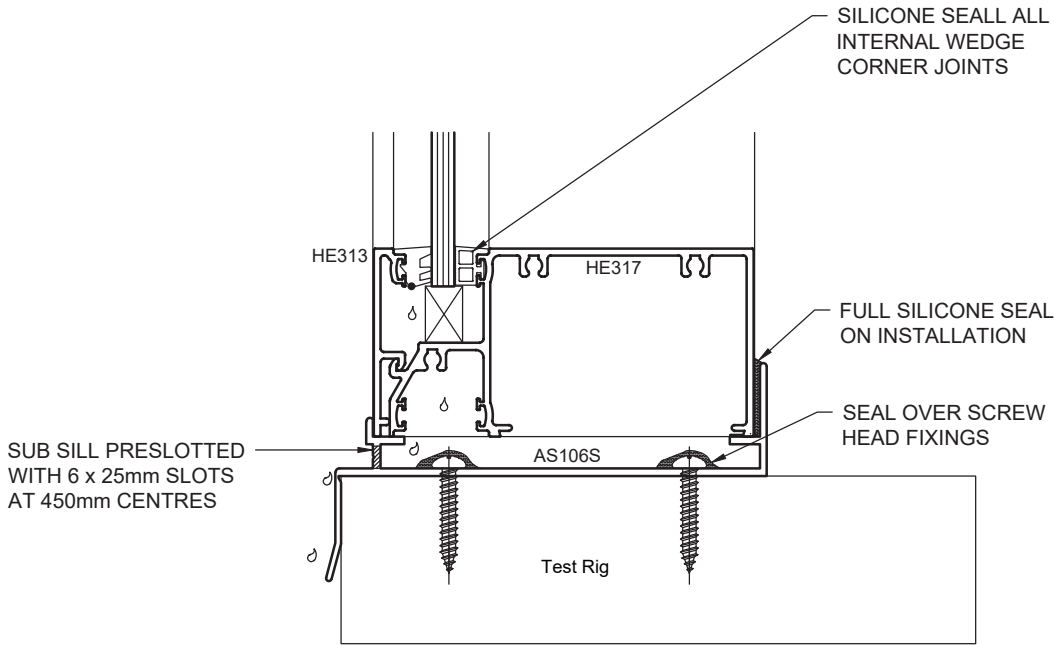
Tables are based on theoretical section properties

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

TEST REPORT:	AS11.120
SYSTEM CONFIGURATION	HUNTER EVO 101.6mm SG F/F WITH HE322 HE323 MULLION
TEST SAMPLE SIZE	3000 H x 2600 W
SERVICEABILITY LOAD	+/- 1200 Pa
ULTIMATE LOAD	+/- 1960 Pa
WATER PENETRATION	1000 Pa
AIR INFILTRATION @ 75Pa	+ 0.01 L/s/ms ² - 0.02 L/s/ms ²

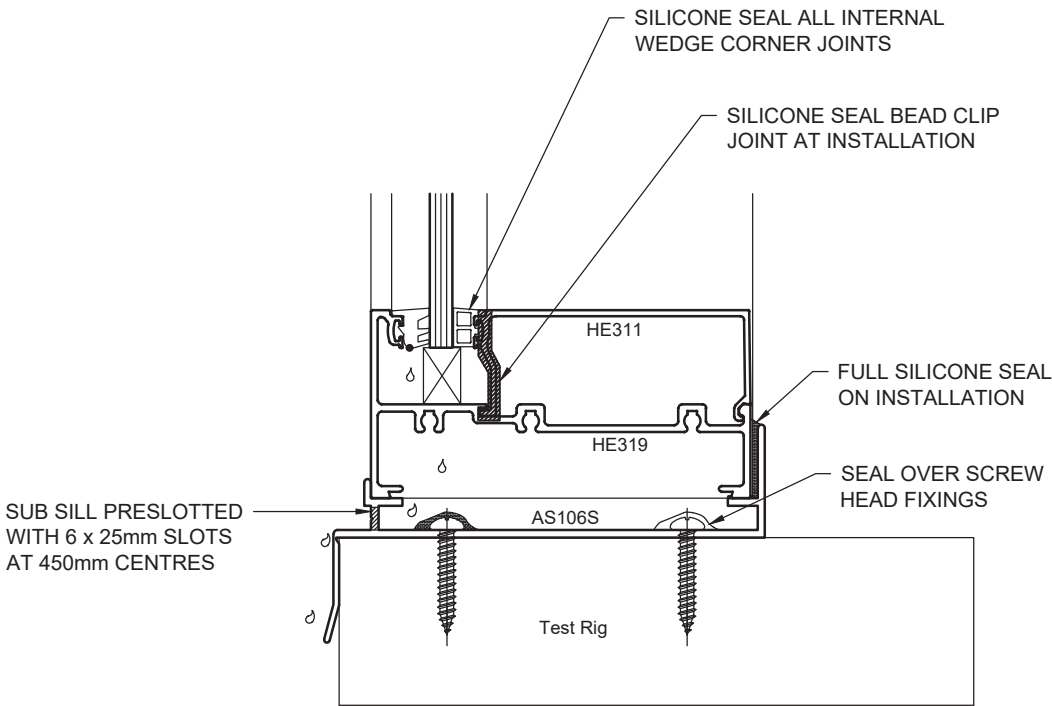


DISCLAIMER:
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4. Test Summary

AS2047 - Fixed/ Fixed

TEST REPORT:	AS11.124
SYSTEM CONFIGURATION	HUNTER EVO 101.6mm SG F/F WITH HE302 HE303 MULLION WITH HE319/HE311 INTERNAL GLAZE SILL
TEST SAMPLE SIZE	2700 H x 2600 W
SERVICEABILITY LOAD	+/- 1200 Pa
ULTIMATE LOAD	+/- 1845 Pa
WATER PENETRATION	600 Pa
AIR INFILTRATION @ 75Pa	+ 0.01 L/s/ms ² - 0.02 L/s/ms ²



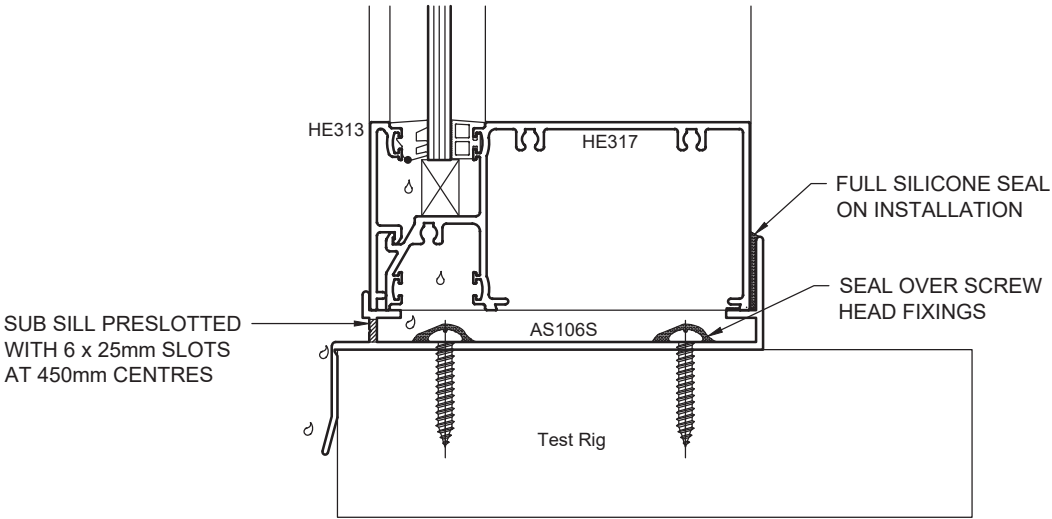
DISCLAIMER:

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4. Test Summary

AS2047 - Fixed/ Fixed

TEST REPORT:	AS12.173
SYSTEM CONFIGURATION	HUNTER EVO 101.6mm SG F/F WITH HE322 HE323 MULLION WITH HE328/HE329 STIFFENERS
TEST SAMPLE SIZE	2100 H x 2000 W
SERVICEABILITY LOAD	+/- 3500 Pa
ULTIMATE LOAD	+/- 8900 Pa
WATER PENETRATION	450 Pa
AIR INFILTRATION @ 75Pa	+ 0.08 L/s/ms ² - 0.10 L/s/ms ²

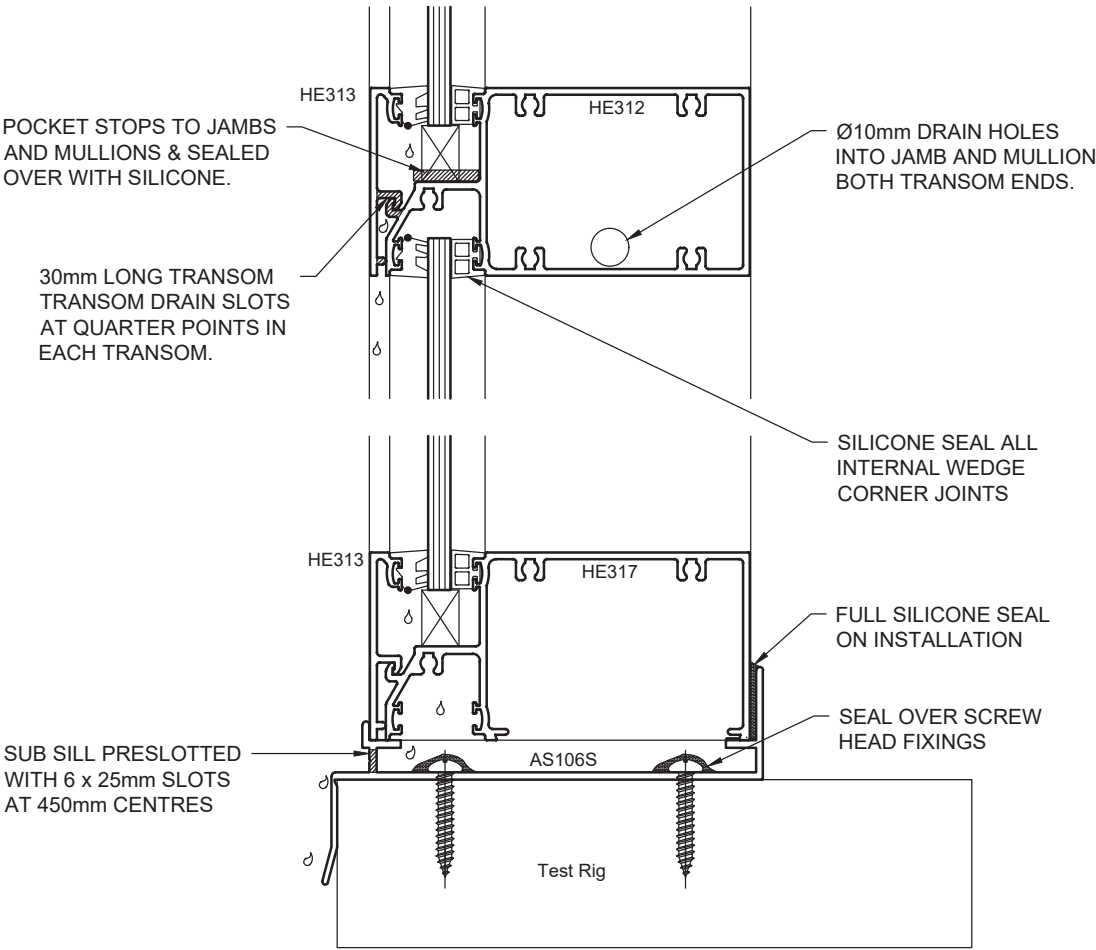


DISCLAIMER:
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4. Test Summary

AS2047 - Fixed/ Fixed over Fixed/ Fixed

TEST REPORT:	AS11.125
SYSTEM CONFIGURATION	HUNTER EVO 101.6mm SG F/F-F/F WITH HE302 HE303 MULLION AND HE312 HE313 TRANSOM
TEST SAMPLE SIZE	2700 H x 2600 W
SERVICEABILITY LOAD	+/- 1100 Pa
ULTIMATE LOAD	+/- 2317 Pa
WATER PENETRATION	1000 Pa
AIR INFILTRATION @ 75Pa	+ 0.01 L/s/ms ² - 0.03 L/s/ms ²



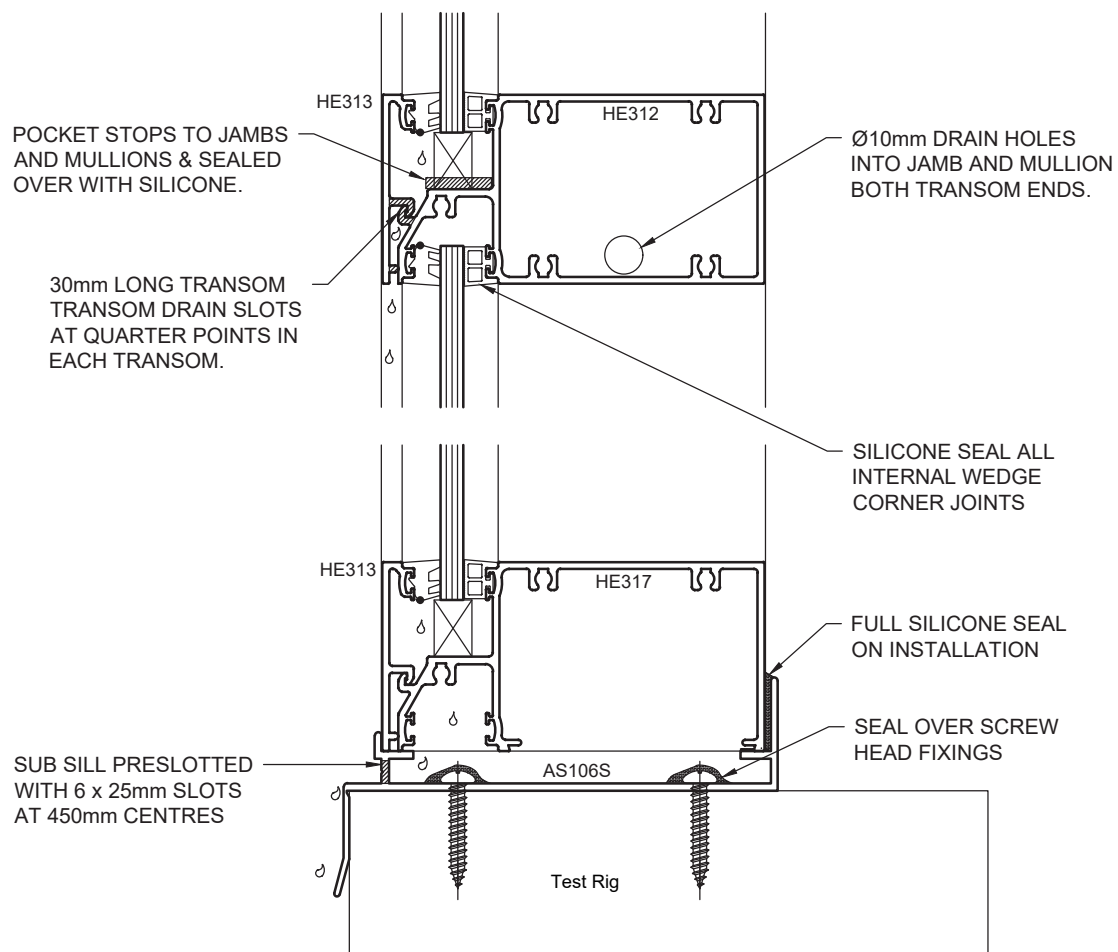
DISCLAIMER:

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4. Test Summary

AS2047 - Fixed/ Fixed over Fixed/ Fixed

TEST REPORT:	AS11.119
SYSTEM CONFIGURATION	HUNTER EVO 101.6mm SG F/F-F/F WITH HE322 HE323 MULLION AND HE328 HE329 STIFFENERS AND HE312 HE313 TRANSOM
TEST SAMPLE SIZE	3000 H x 2600 W
SERVICEABILITY LOAD	+/- 1300 Pa
ULTIMATE LOAD	+/- 2760 Pa
WATER PENETRATION	1200 Pa
AIR INFILTRATION @ 75Pa	+ 0.03 L/s/ms ² - 0.06 L/s/ms ²



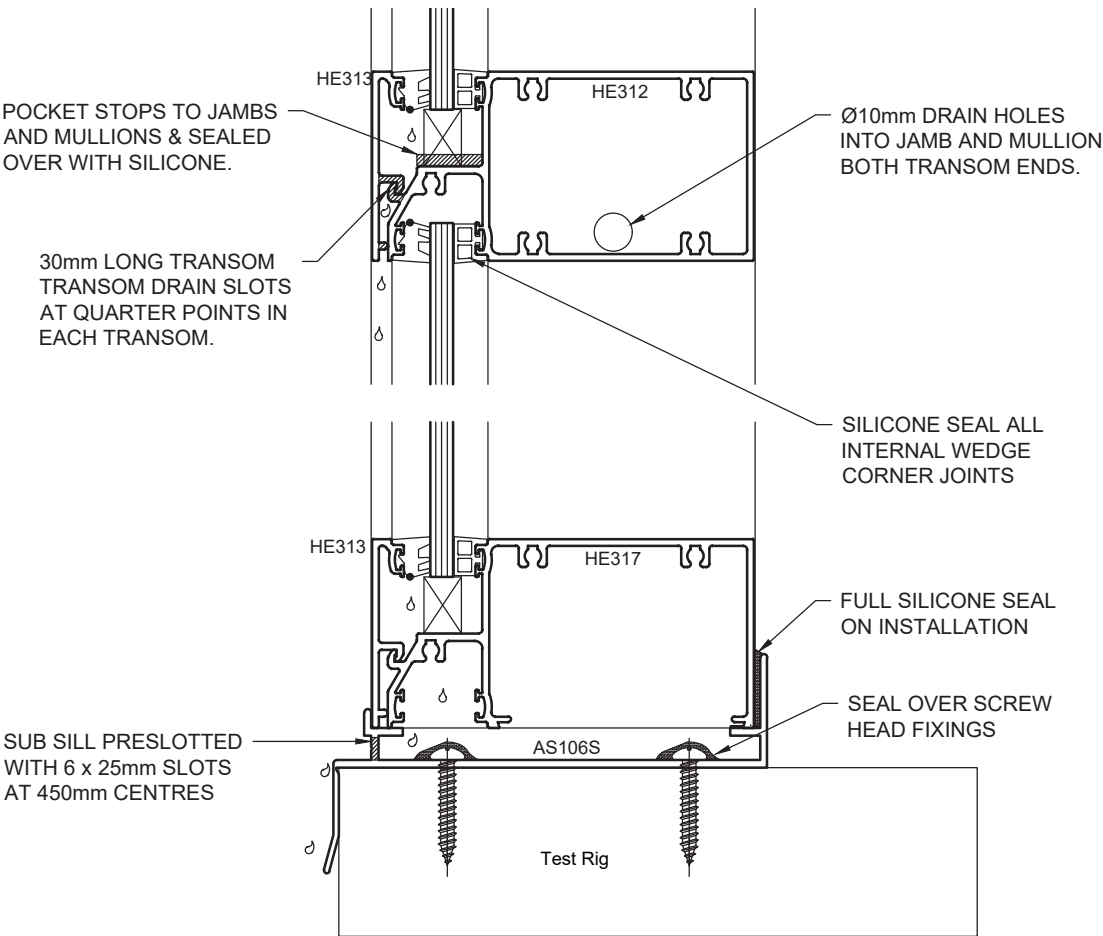
DISCLAIMER:

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4. Test Summary

AS2047 - Fixed/ Fixed over Fixed/ Fixed

TEST REPORT:	AS11.121
SYSTEM CONFIGURATION	HUNTER EVO 101.6mm SG F/F-F/F WITH HE322 HE323 MULLION AND HE312 HE313 TRANSOM
TEST SAMPLE SIZE	3000 H x 2600 W
SERVICEABILITY LOAD	+/- 1100 Pa
ULTIMATE LOAD	+/- 2733 Pa
WATER PENETRATION	1200 Pa
AIR INFILTRATION @ 75Pa	+ 0.04 L/s/ms ² - 0.01 L/s/ms ²



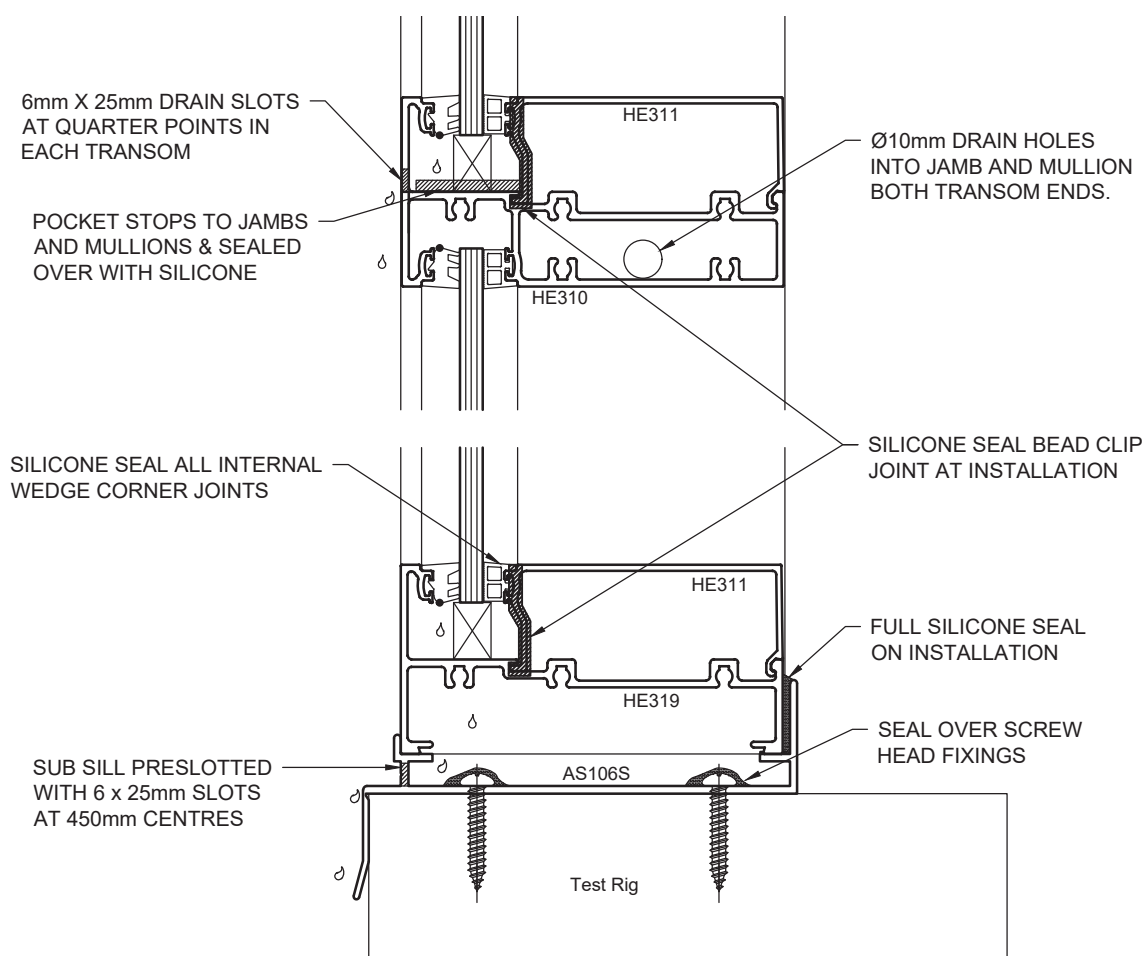
DISCLAIMER:

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4. Test Summary

AS2047 - Fixed/ Fixed over Fixed/ Fixed

TEST REPORT:	AS11.122
SYSTEM CONFIGURATION	HUNTER EVO 101.6mm SG F/F-F/F WITH HE322 HE323 MULLION AND HE310 HE311 INTERNAL GLAZE TRANSOM
TEST SAMPLE SIZE	3000 H x 2600 W
SERVICEABILITY LOAD	+/- 1100 Pa
ULTIMATE LOAD	+/- 2735 Pa
WATER PENETRATION	600 Pa
AIR INFILTRATION @ 75Pa	+ 0.01 L/s/ms ² - 0.07 L/s/ms ²



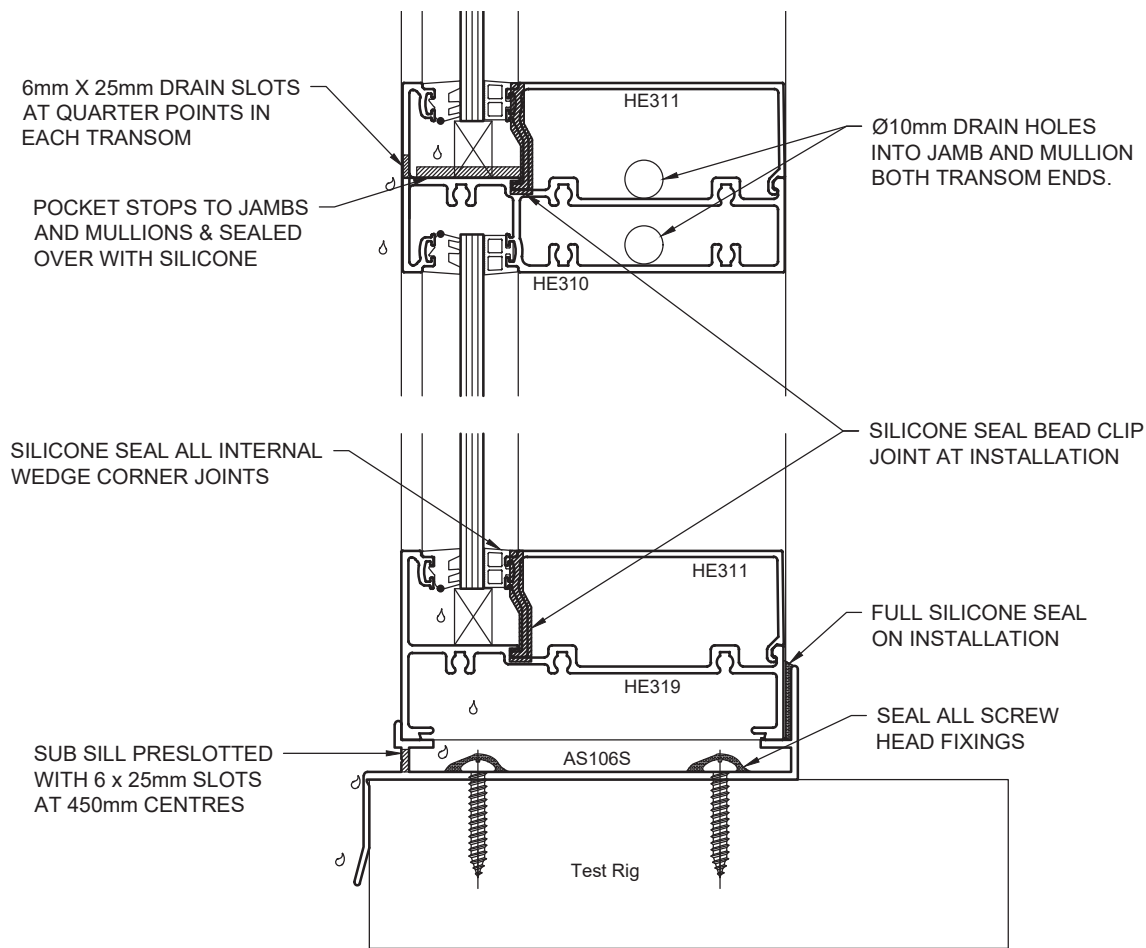
DISCLAIMER:

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4. Test Summary

AS2047 - Fixed/ Fixed over Fixed/ Fixed

TEST REPORT:	AS11.123
SYSTEM CONFIGURATION	HUNTER EVO 101.6mm SG F/F-F/F WITH HE302 HE303 MULLION AND HE310 HE311 INTERNAL GLAZE TRANSOM
TEST SAMPLE SIZE	2700 H x 2600 W
SERVICEABILITY LOAD	+/- 1000 Pa
ULTIMATE LOAD	+/- 2260 Pa
WATER PENETRATION	600 Pa
AIR INFILTRATION @ 75Pa	+ 0.02 L/s/ms ² - 0.03 L/s/ms ²



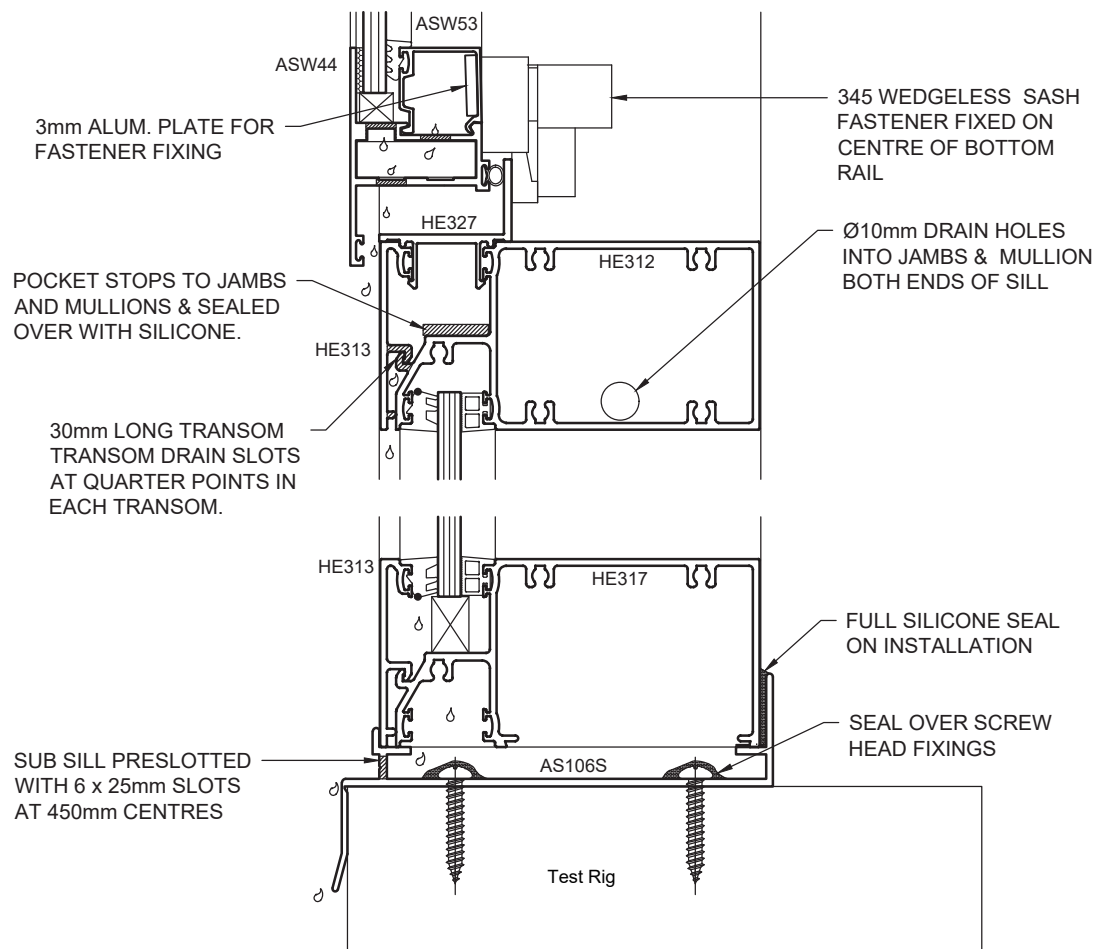
DISCLAIMER:

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4. Test Summary

AS2047 - Awning/ Fixed over Fixed/ Fixed

TEST REPORT:	AS12.191
SYSTEM CONFIGURATION	HUNTER EVO 101.6mm SG A/F-F/F WITH HE302 HE303 MULLION AND HE312 HE313 TRANSOM AND ASW44 AWNING SASH 1200 H x 900 W
TEST SAMPLE SIZE	2400 H x 1800 W
SERVICEABILITY LOAD	+/- 1000 Pa
ULTIMATE LOAD	+/- 1513 Pa
WATER PENETRATION	500 Pa
AIR INFILTRATION @ 75Pa	+ 0.25 L/s/ms ² - 2.98 L/s/ms ²



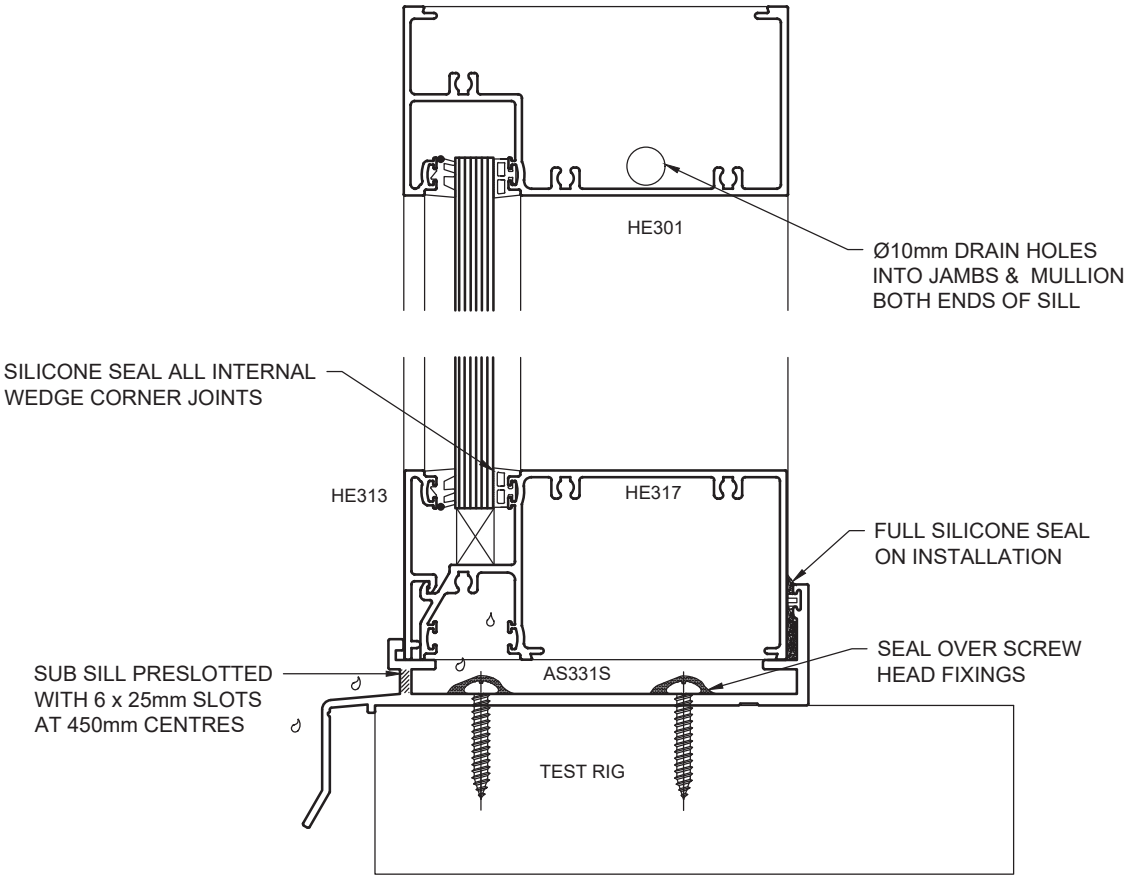
DISCLAIMER:

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4. Test Summary

AS2047 - Fixed/ Fixed

TEST REPORT:	AZT0340.12
SYSTEM CONFIGURATION	HUNTER EVO 101.6mm SG F/F WITH HE322 & HE323 MULLION & STIFENERS
TEST SAMPLE SIZE	2130 H x 2020 W
SERVICEABILITY LOAD	+/- 3000 Pa
ULTIMATE LOAD	+/- 8900 Pa
WATER PENETRATION	1000 Pa
AIR INFILTRATION @ 75Pa	+ 0.07 L/s/ms ² - 0.00 L/s/ms ²



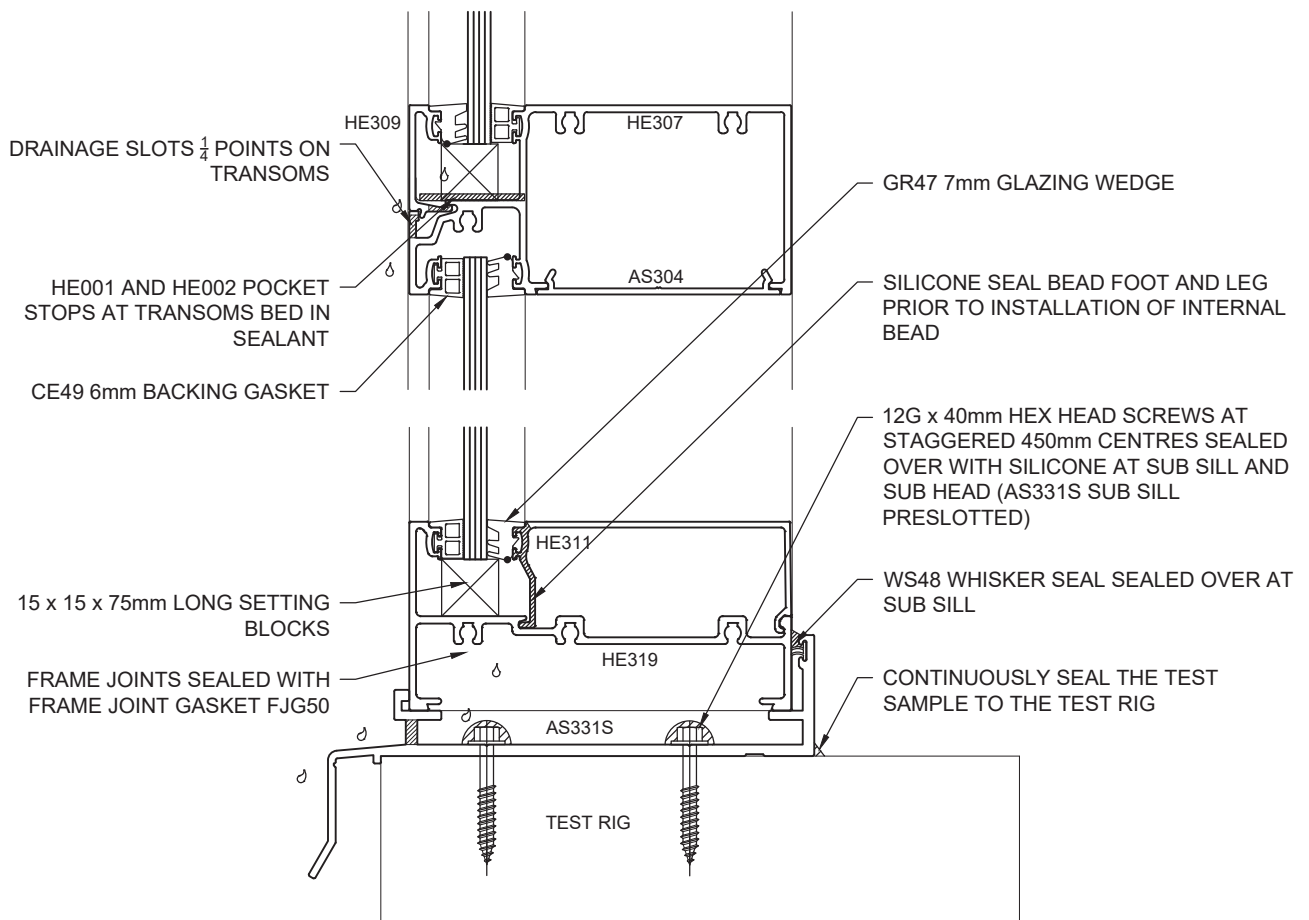
DISCLAIMER:

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4. Test Summary

AS2047 - Fixed Fixed/ Fixed

TEST REPORT:	OT22-126
SYSTEM CONFIGURATION	HUNTER EVO 101.6mm SG F-F/F WITH HE322 & HE323 MULLION & HE307 & HE309 TRANSOM
TEST SAMPLE SIZE	2455 H x 2445 W
SERVICEABILITY LOAD	+/- 2501 Pa
ULTIMATE LOAD	+/- 5003 Pa
WATER PENETRATION	750 Pa
AIR INFILTRATION @ 75Pa	+ 0.04 L/s/ms ² - 0.07 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-R11	HUNTER EVO 101.6mm FIXED / FIXED WITH HE302 / HE303 MULLIONS	2.1m (H) x 1.8m (W)	6.38mm LAMINATE	33
4863-R15	HUNTER EVO 101.6mm with ASW44 AWNING FIXED OVER FIXED / FIXED USING HE302 / HE303 MULLIONS	2.1m (H) x 1.8m (W)	6.38mm LAMINATE	31
TL636-03-02	HUNTER EVO 101.6mm with FIXED OVER AWNING OVER FIXED - ASW72 SASH, ASW70 HINGED HEAD	1.8m (H) x 1.2m (W)	12.76mm LAMINATE	38
OT.AC23-22	HUNTER EVO 101.6mm FIXED / FIXED WITH HE302 / HE303 MULLIONS	2.1m (H) x 1.8m (W)	6.38mm LAMINATE	32
OT.AC23-23	HUNTER EVO 101.6mm FIXED / FIXED WITH HE302 / HE303 MULLIONS	2.1m (H) x 1.8m (H)	6.5mm ACOUSTA	34
OT.AC23-24	HUNTER EVO 101.6mm FIXED / FIXED WITH HE302 / HE303 MULLIONS	2.1m (H) x 1.8m (H)	4mm TOUGHENED	29
OT.AC23-25	HUNTER EVO 101.6mm FIXED / FIXED WITH HE302 / HE303 MULLIONS	2.1m (H) x 1.8m (H)	6mm TOUGHENED	32
OT.AC23-26	HUNTER EVO 101.6mm FIXED / FIXED WITH HE302 / HE303 MULLIONS	2.1m (H) x 1.8m (H)	12.5mm ACOUSTA	37
OT.AC23-27	HUNTER EVO 101.6mm FIXED / FIXED WITH HE302 / HE303 MULLIONS	2.1m (H) x 1.8m (H)	12.38mm LAMINATE	36
OT.AC23-28	HUNTER EVO 101.6mm FIXED / FIXED WITH HE302 / HE303 MULLIONS	2.1m (H) x 1.8m (H)	10.5mm ACOUSTA	36
OT.AC23-29	HUNTER EVO 101.6mm FIXED / FIXED WITH HE302 / HE303 MULLIONS	2.1m (H) x 1.8m (H)	10.38mm LAMINATE	34

Impact - AS/NZ1170.2 Section 2.5.7 & 5.3.2

TEST REPORT	DESCRIPTION	SIZE	RESULT
INZ38120-06A	HUNTER EVO 101.6mm with 12.4mm GLASSHAPE GEN 2 STORMSHIELD. 4Kg TIMBER	2.1m (H) x 1.0m (W)	39 m/s

DISCLAIMER:

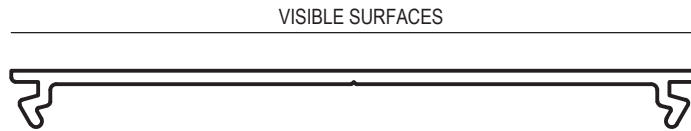
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4. Test Summary

BAL40 - 1530.8.1 - 2007

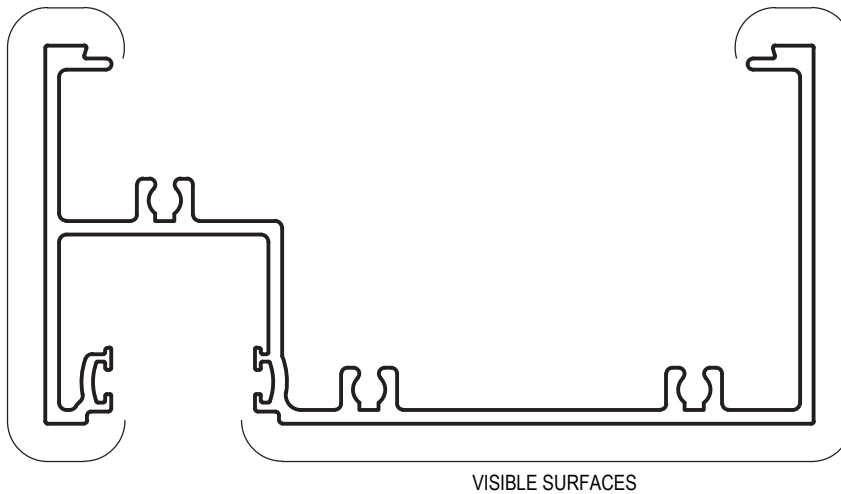
TEST REPORT	DESCRIPTION	SIZE	SEALS	RESULT
FSZ1662A	HUNTER EVO 101.6mm with 6mm CLEAR TOUGHENED GLASS	0.8m (H) x 0.54m (W)	GR47FR and GR46FR	BAL A-40
FSZ1662A	HUNTER EVO and AWNING WINDOW with 6mm CLEAR TOUGHENED GLASS	0.8m (H) x 0.57m (W)	GR3FR and 1.6x12mm G.T	BAL A-40

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AS5
FLUSH ADAPTOR

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

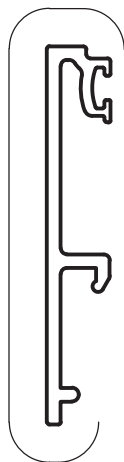


HE301
101.6mm SG
FRAME / JAMB

Mass. 1.449 Kg/m
Anod. Per. 583
Paint Per. 187

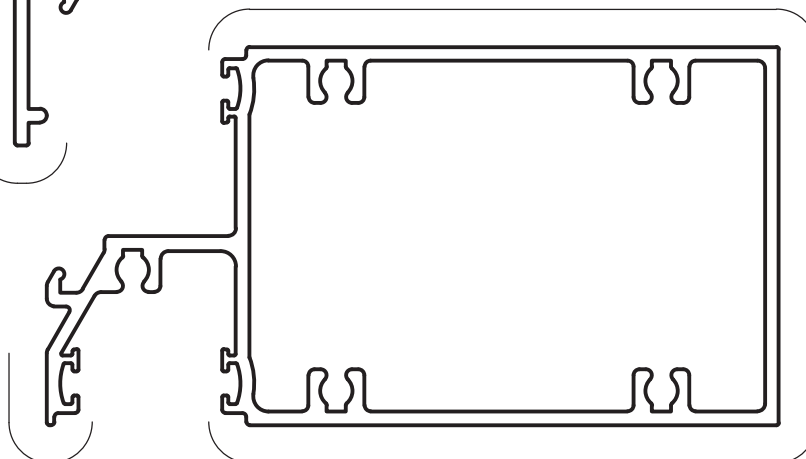
$I_{xx} = 782.10 \times 10^3 \text{ mm}^4$

VISIBLE SURFACES



HE313
FACE GLAZING BEAD

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

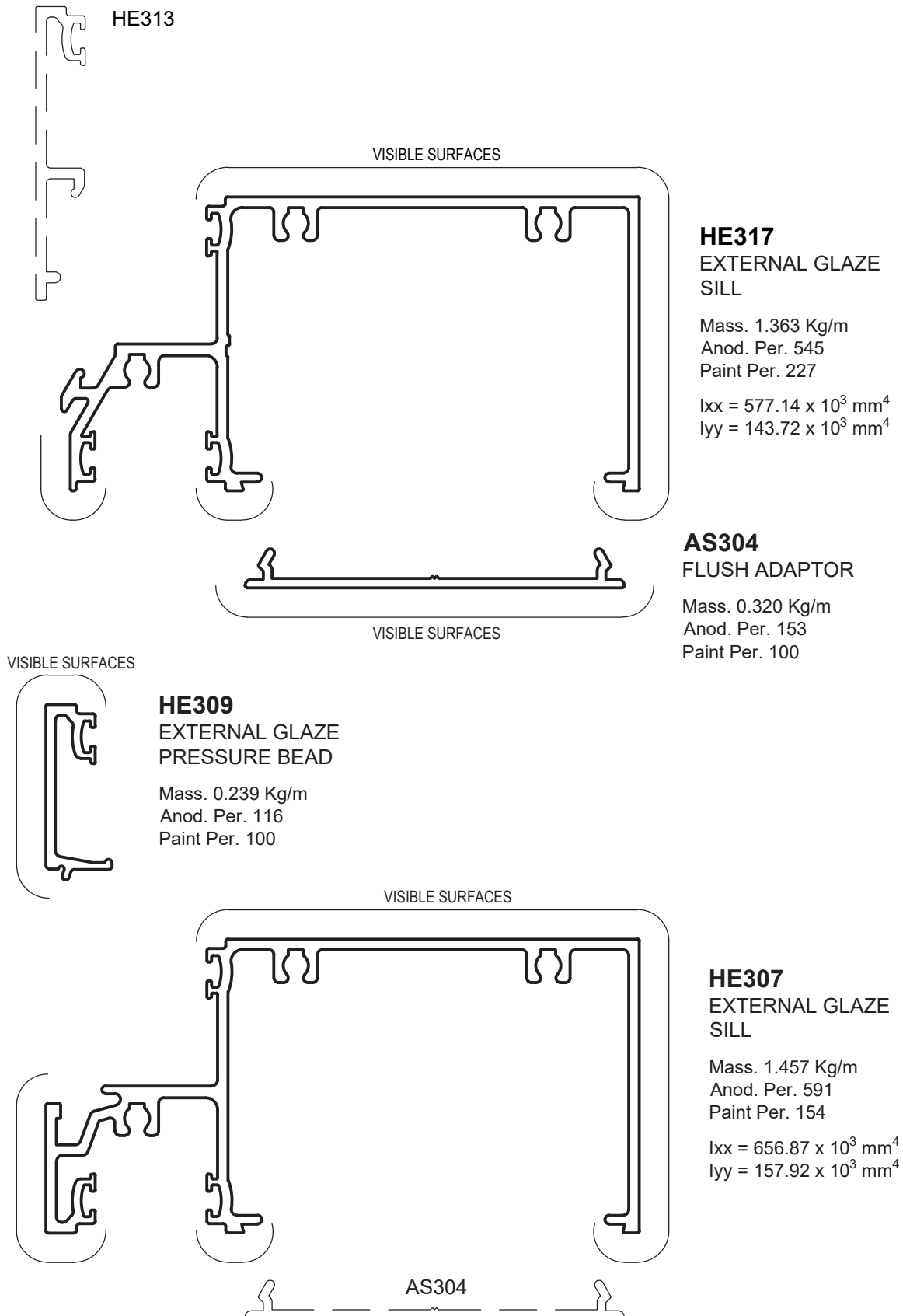


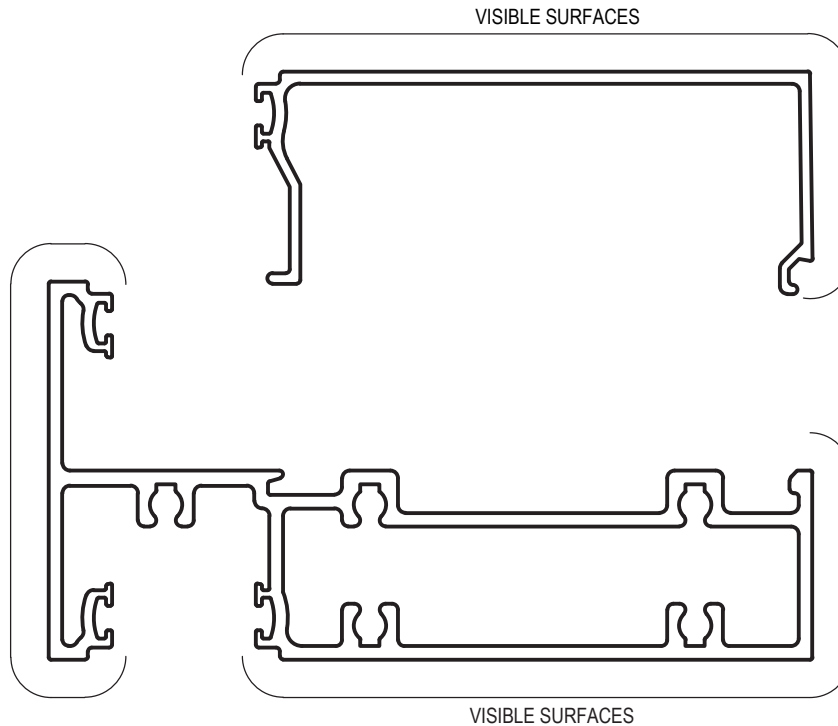
HE312
EXTERNAL GLAZED
TRANSOM

Mass. 1.769 Kg/m
Anod. Per. 395
Paint Per. 202

$I_{xx} = 651.61 \times 10^3 \text{ mm}^4$
 $I_{yy} = 234.99 \times 10^3 \text{ mm}^4$

VISIBLE SURFACES





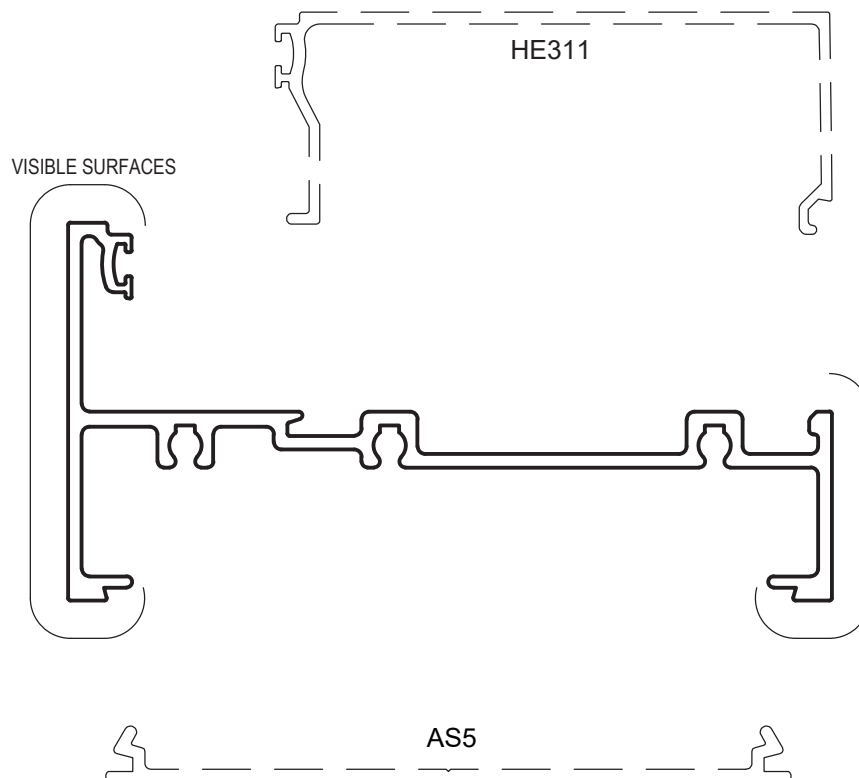
HE311
INTERNAL GLAZE
BEAD

Mass. 0.559 Kg/m
Anod. Per. 276
Paint Per. 100

HE310
INTERNAL GLAZE
TRANSOM

Mass. 1.778 Kg/m
Anod. Per. 477
Paint Per. 156

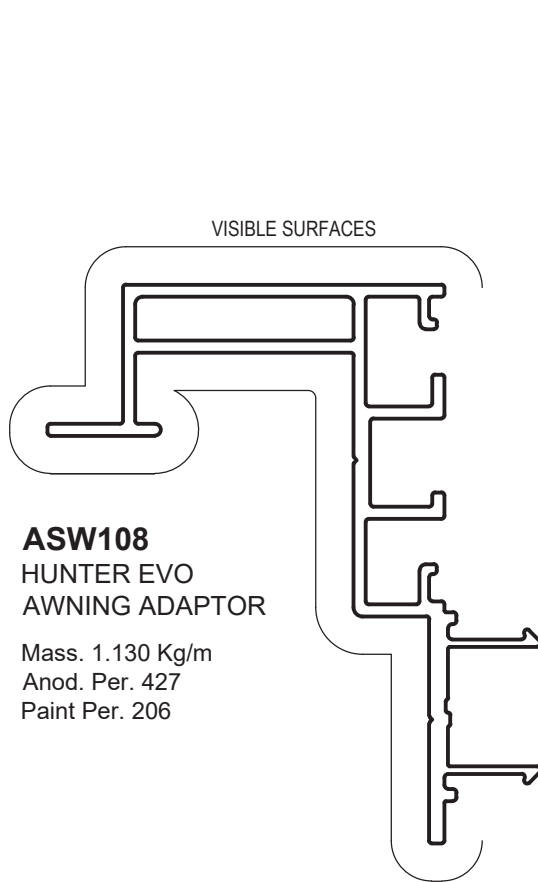
$I_{xx} = 755.22 \times 10^3 \text{ mm}^4$
 $I_{yy} = 101.05 \times 10^3 \text{ mm}^4$



HE319
INTERNAL GLAZE
SILL

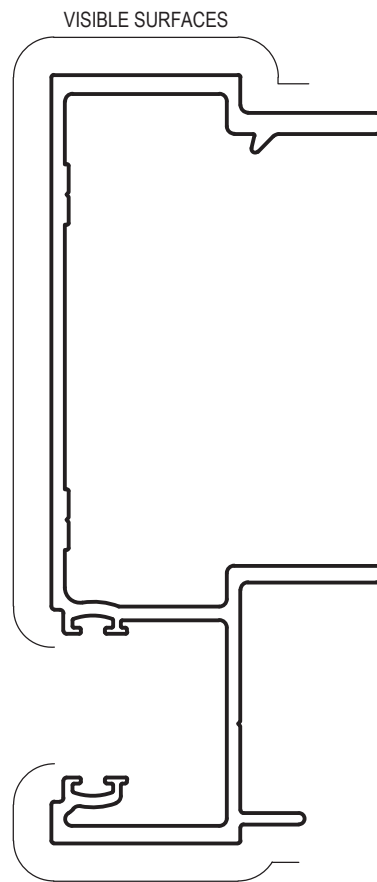
Mass. 1.220 Kg/m
Anod. Per. 477
Paint Per. 100

$I_{xx} = 632.46 \times 10^3 \text{ mm}^4$



ASW108
HUNTER EVO
AWNING ADAPTOR

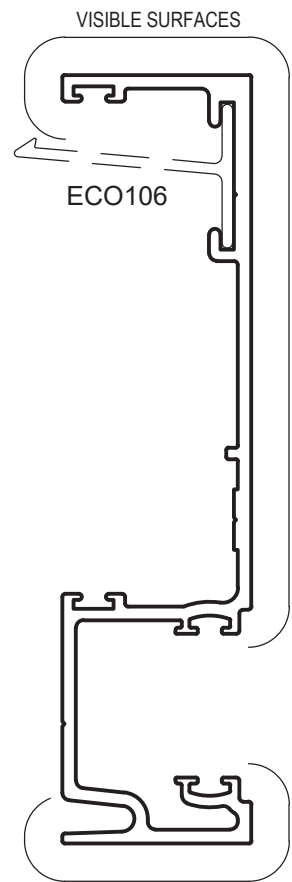
Mass. 1.130 Kg/m
Anod. Per. 427
Paint Per. 206



HE302
SG MALE MULLION

Mass. 1.373 Kg/m
Anod. Per. 505
Paint Per. 159

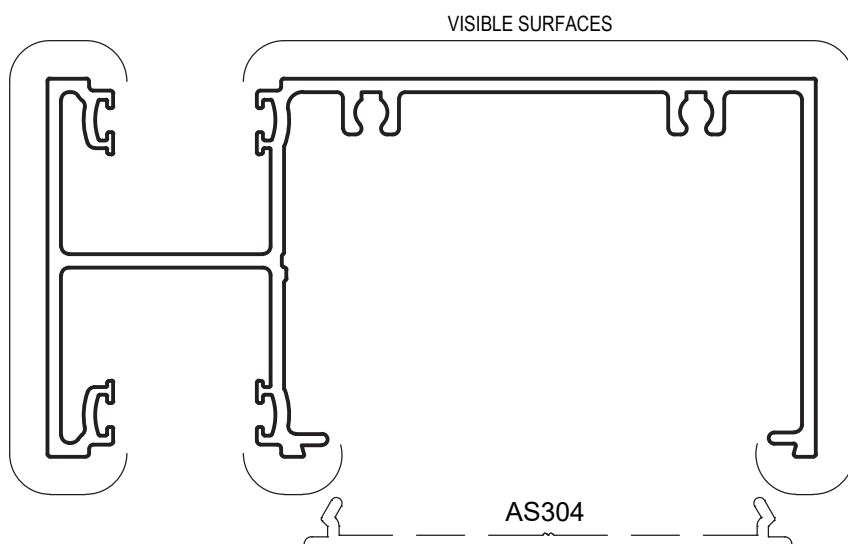
$I_{xx} = 681.77 \times 10^3 \text{ mm}^4$



HE303
SG FEMALE MULLION

Mass. 1.080 Kg/m
Anod. Per. 445
Paint Per. 127

$I_{xx} = 516.02 \times 10^3 \text{ mm}^4$



HE306
FRAME / JAMB
2 WAY GLAZING

Mass. 1.553 Kg/m
Anod. Per. 648
Paint Per. 193

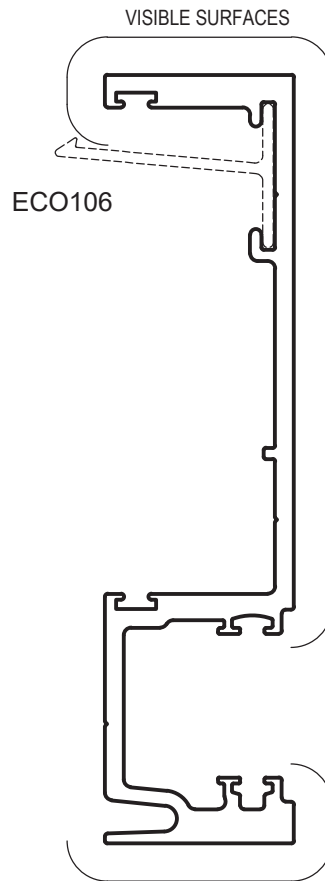
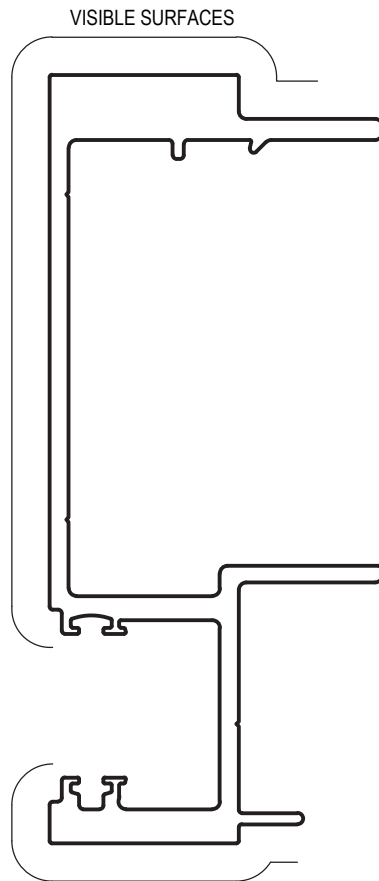
$I_{xx} = 768.39 \times 10^3 \text{ mm}^4$
 $I_{yy} = 163.28 \times 10^3 \text{ mm}^4$

HE322

H.D. MALE MULLION

Mass. 2.071 Kg/m
Anod. Per. 477
Paint Per. 160

$I_{xx} = 1082.41 \times 10^3 \text{ mm}^4$



HE323

H.D. FEMALE MULLION

Mass. 1.455 Kg/m
Anod. Per. 421
Paint Per. 127

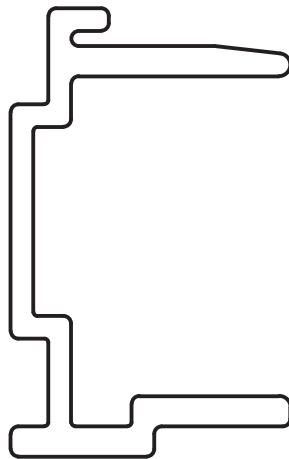
$I_{xx} = 699.85 \times 10^3 \text{ mm}^4$

HE329

FEMALE SPLICE

Mass. 1.289 Kg/m
Anod. Per. 275
NO VISIBLE SURFACE

$I_{xx} = 216.96 \times 10^3 \text{ mm}^4$

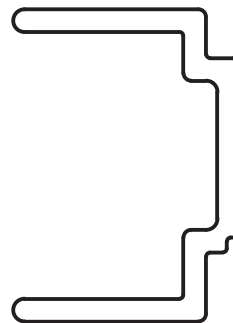


HE328

MALE SPLICE

Mass. 0.758 Kg/m
Anod. Per. 189
NO VISIBLE SURFACE

$I_{xx} = 68.34 \times 10^3 \text{ mm}^4$

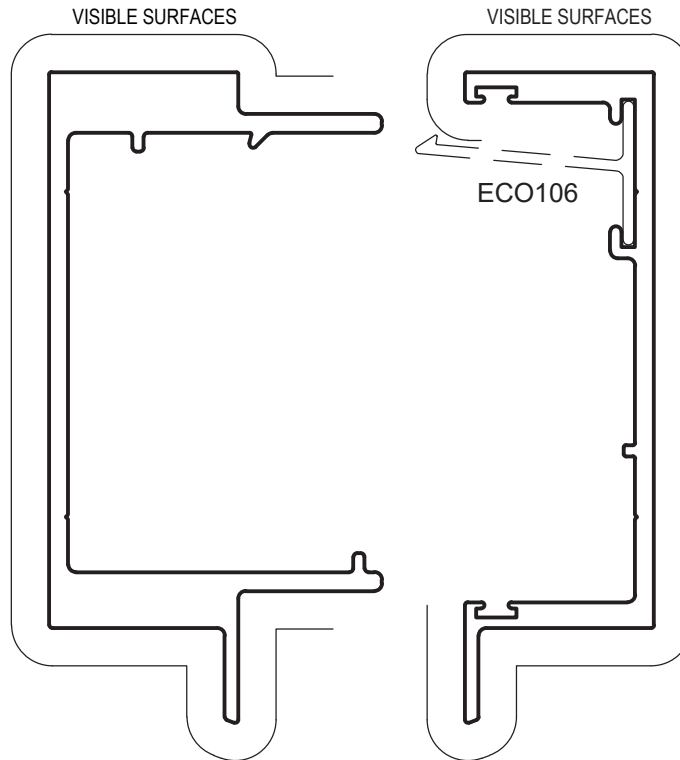


HE314

STRUCTURAL
GLAZE MALE
MULLION

Mass. 1.783 Kg/m
Anod. Per. 350
Paint Per. 193

$I_{xx} = 595.78 \times 10^3 \text{ mm}^4$



HE315

STRUCTURAL
GLAZE FEMALE
MULLION

Mass. 1.000 Kg/m
Anod. Per. 290
Paint Per. 154

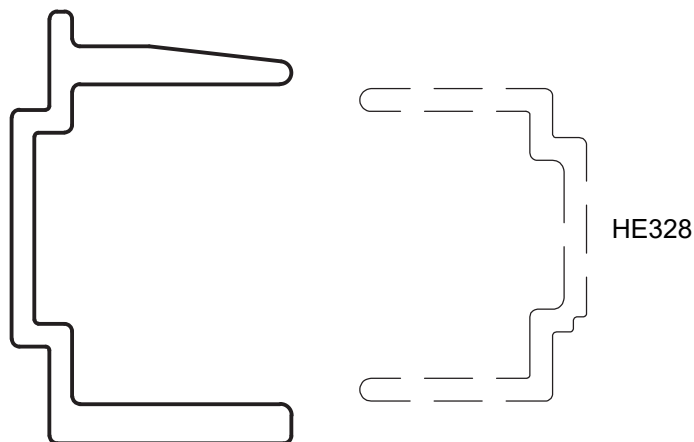
$I_{xx} = 311.10 \times 10^3 \text{ mm}^4$

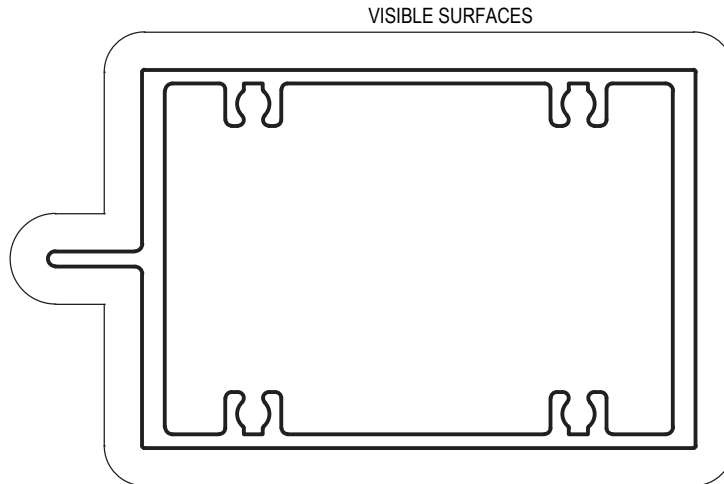
HE326

STRUCTURAL
FEMALE SPLICE

Mass. 1.287 Kg/m
Anod. Per. 247
NO VISIBLE SURFACE

$I_{xx} = 206.07 \times 10^3 \text{ mm}^4$

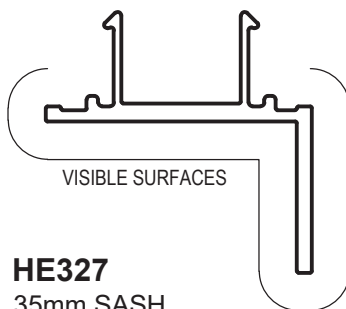




HE316
STRUCTURAL
GLAZED TRANSOM

Mass. 1.784 Kg/m
Anod. Per. 269
Paint Per. 269

$I_{xx} = 548.21 \times 10^3 \text{ mm}^4$
 $I_{yy} = 241.72 \times 10^3 \text{ mm}^4$



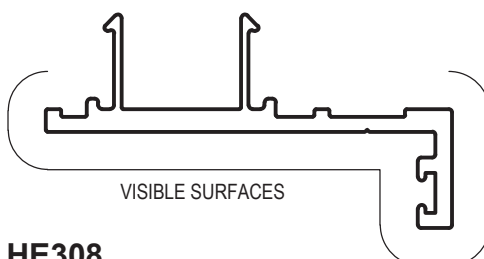
HE327
35mm SASH
ADAPTOR

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



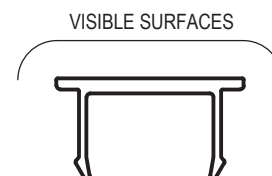
HE321
50mm SASH
ADAPTOR

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



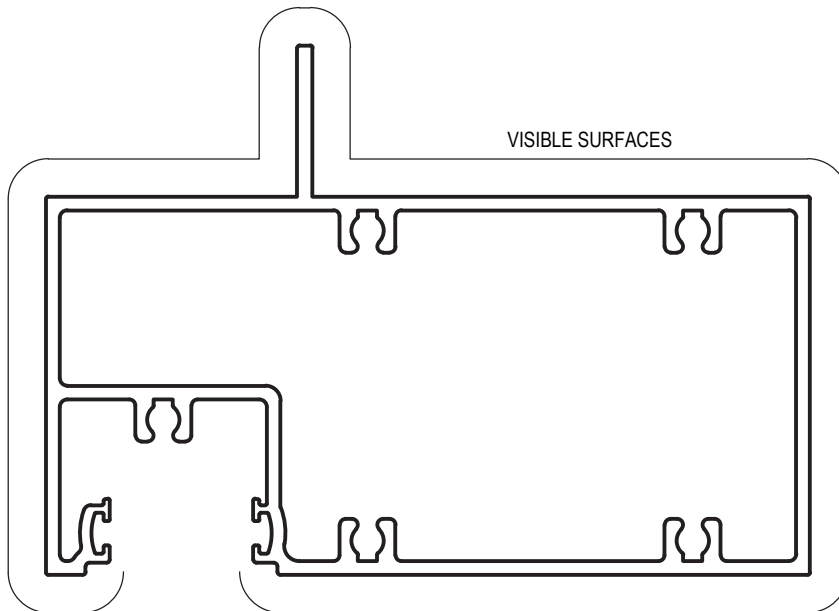
HE308
45mm DOOR STOP

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



ME8
POCKET FILLER

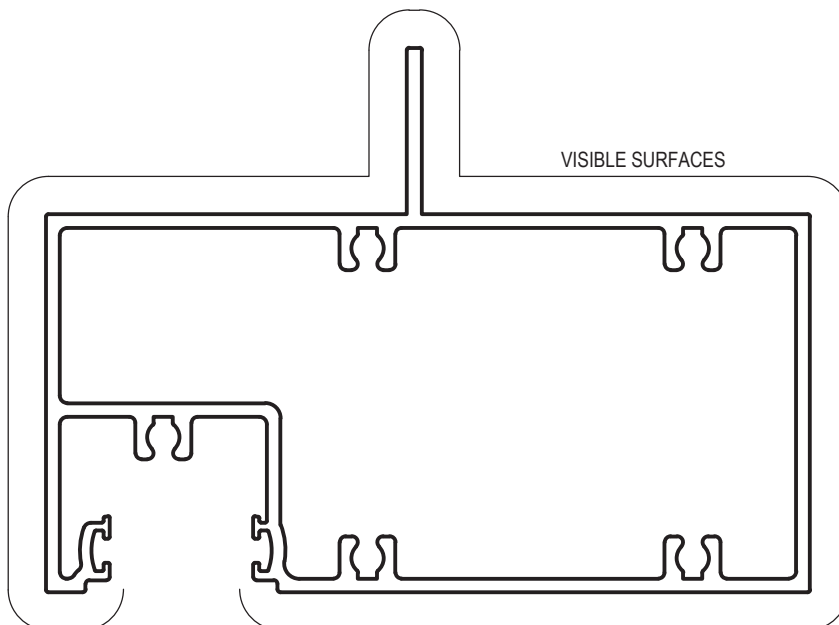
Mass. 0.181 Kg/m
Anod. Per. 100
Paint Per. 100



HE324
TRANSOM SG
35mm SASH

Mass. 2.053 Kg/m
Anod. Per. 455
Paint Per. 316

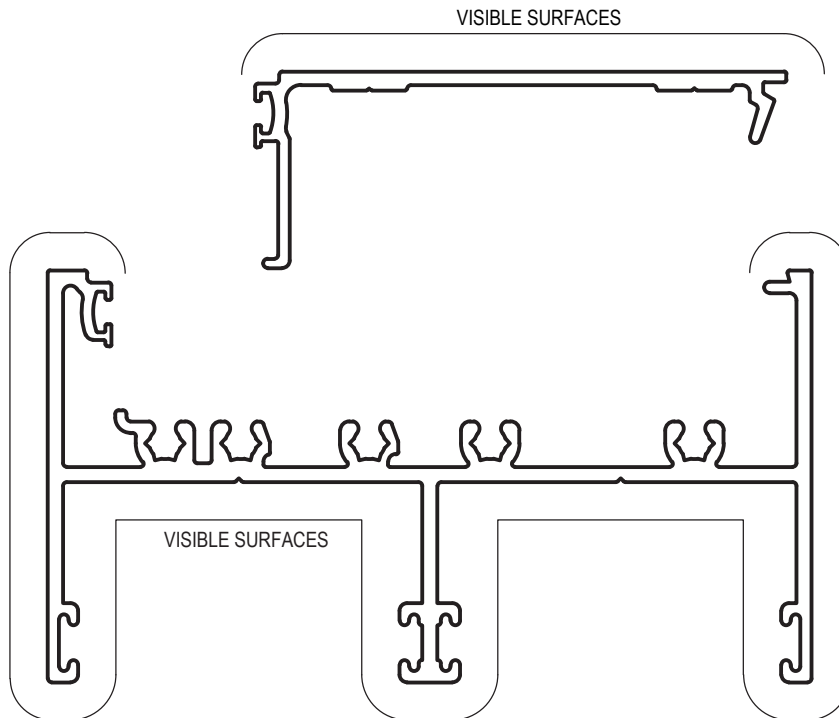
$I_{xx} = 884.68 \times 10^3 \text{ mm}^4$
 $I_{yy} = 320.47 \times 10^3 \text{ mm}^4$



HE325
TRANSOM SG
50mm SASH

Mass. 2.064 Kg/m
Anod. Per. 459
Paint Per. 320

$I_{xx} = 877.36 \times 10^3 \text{ mm}^4$
 $I_{yy} = 328.26.36 \times 10^3 \text{ mm}^4$



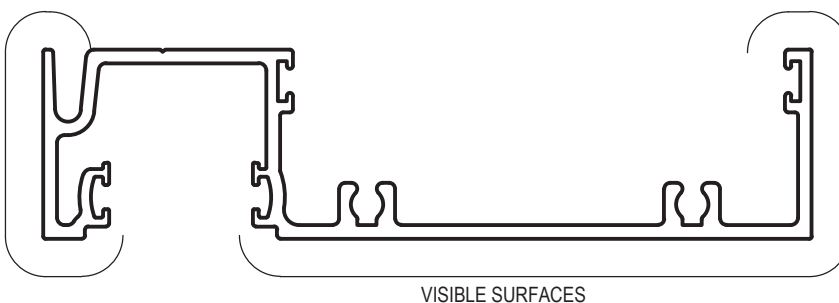
HE332
SG ADAPTOR

Mass. 0.536 Kg/m
Anod. Per. 221
Paint Per. 100

HE883
PROGLIDE/
HUNTER EVO HEAD/
TRANSOM

Mass. 1.809 Kg/m
Anod. Per. 687
Paint Per. 381

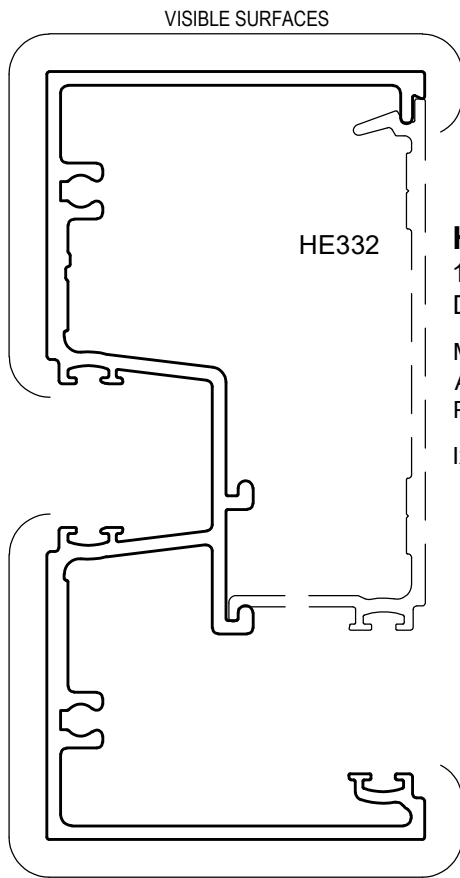
$I_{xx} = 867.03 \times 10^3 \text{ mm}^4$
 $I_{yy} = 107.90 \times 10^3 \text{ mm}^4$



HE340
100mm SG FEMALE
MULLION (SCREW
FLUTES)

Mass. 1.103 Kg/m
Anod. Per. 468
Paint Per. 131

$I_{xx} = 31.37 \times 10^3 \text{ mm}^4$
 $I_{yy} = 494.50 \times 10^3 \text{ mm}^4$

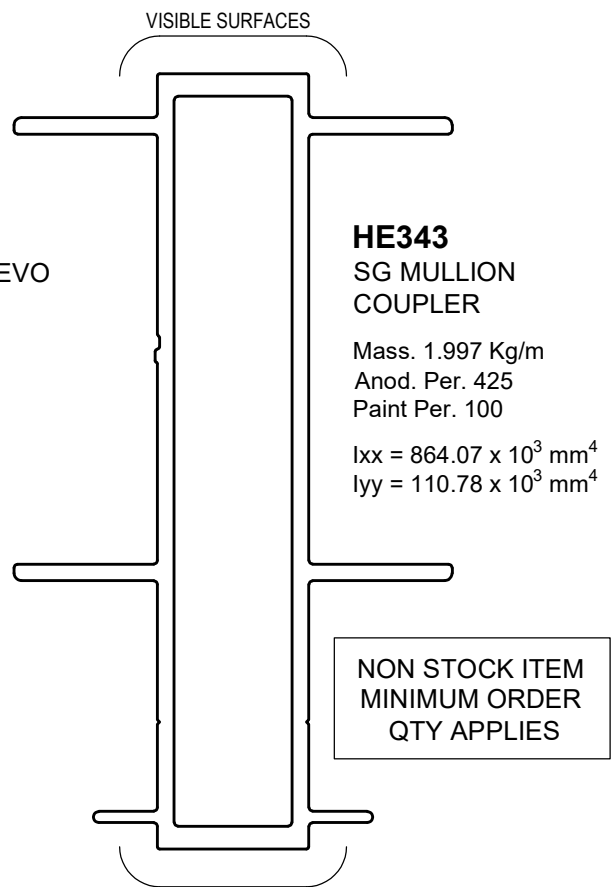


HE332

HE341
100mm McARTHUR EVO
DOOR JAMB

Mass. 1.623 Kg/m
Anod. Per. 629
Paint Per. 186

$I_{xx} = 762.85 \times 10^3 \text{ mm}^4$



HE343
SG MULLION
COUPLER

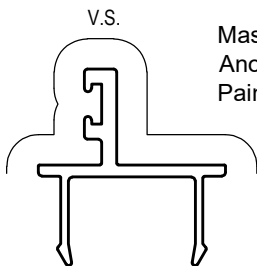
Mass. 1.997 Kg/m
Anod. Per. 425
Paint Per. 100

$I_{xx} = 864.07 \times 10^3 \text{ mm}^4$
 $I_{yy} = 110.78 \times 10^3 \text{ mm}^4$

NON STOCK ITEM
MINIMUM ORDER
QTY APPLIES

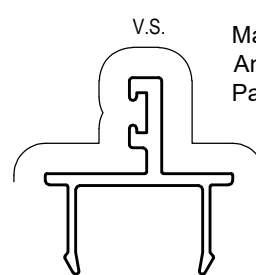
ME40
40mm DOOR STOP

Mass. 0.271 Kg/m
Anod. Per. 136
Paint Per. 100



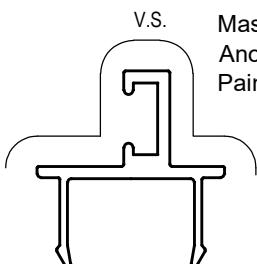
ME45
45mm DOOR STOP

Mass. 0.271 Kg/m
Anod. Per. 136
Paint Per. 100



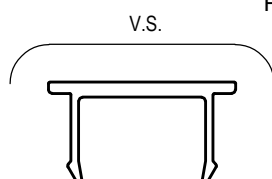
ME7
45mm DOOR STOP

Mass. 0.275 Kg/m
Anod. Per. 138
Paint Per. 100



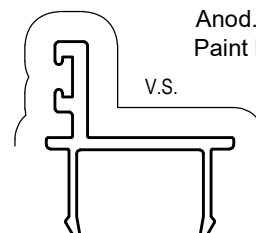
ME8
POCKET FILLER

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



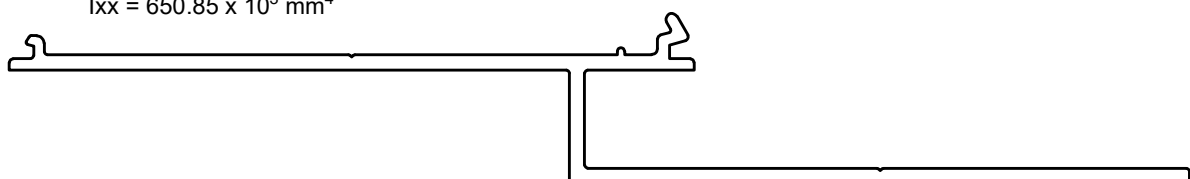
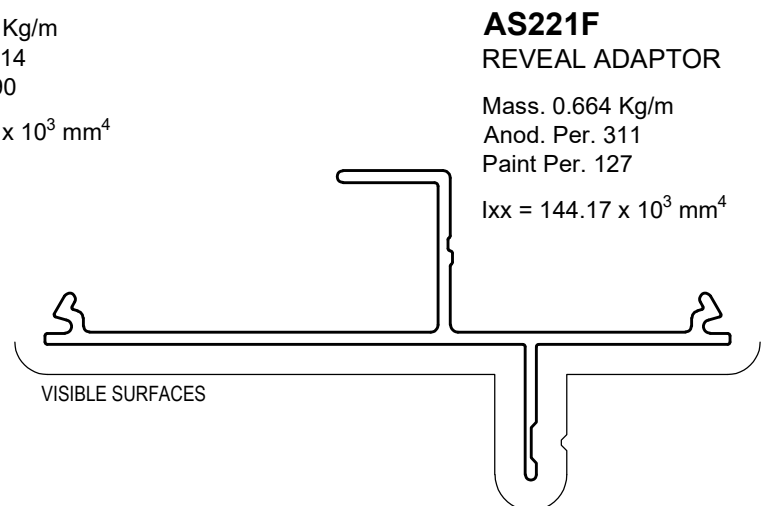
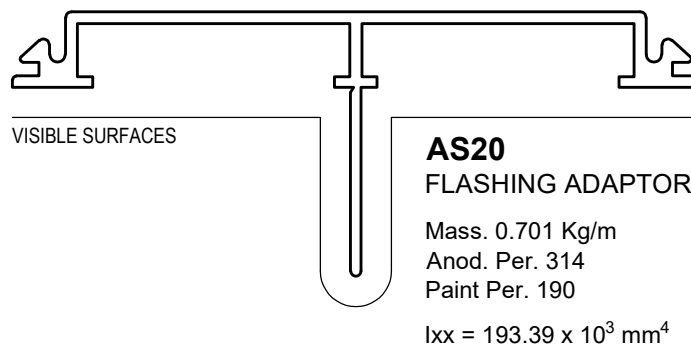
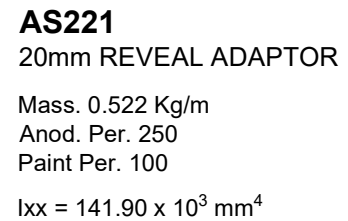
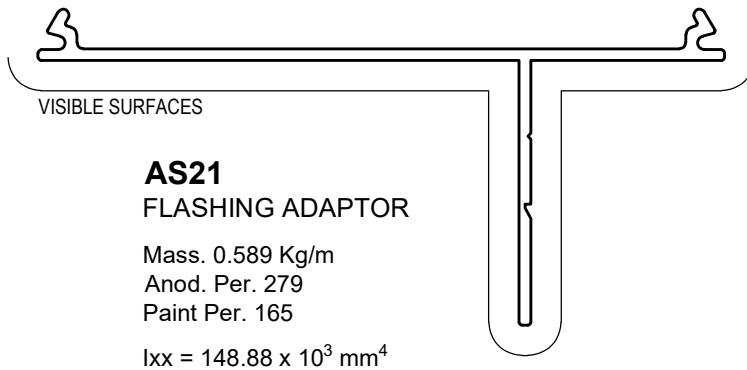
ME35
35mm DOOR STOP

Mass. 0.271 Kg/m
Anod. Per. 136
Paint Per. 100

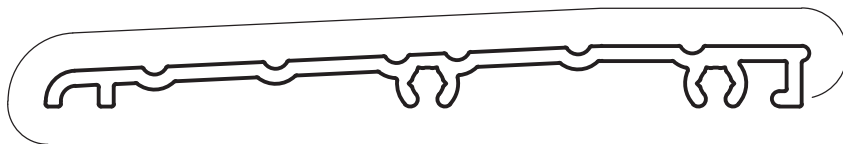




5. Extrusions



VISIBLE SURFACES



AS1800

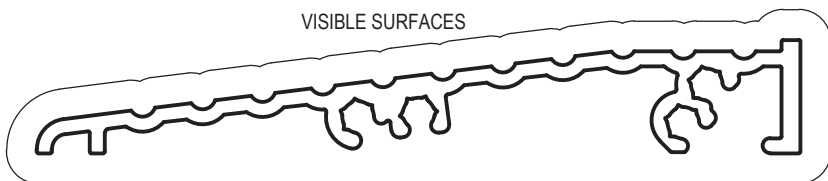
100mm DISABLE ACCESS
THRESHOLD

Mass. 0.740 Kg/m

Anod. Per. 272

Paint Per. 111

VISIBLE SURFACES



AD008

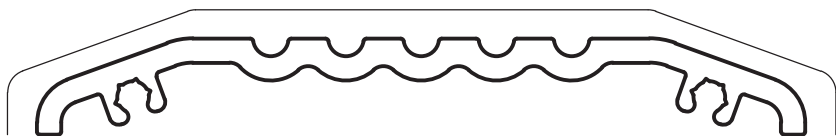
101.6mm DISABLED
RAMP THRESHOLD

Mass. 0.953 Kg/m

Anod. Per. 330

Paint Per. 129

VISIBLE SURFACES



AS1853

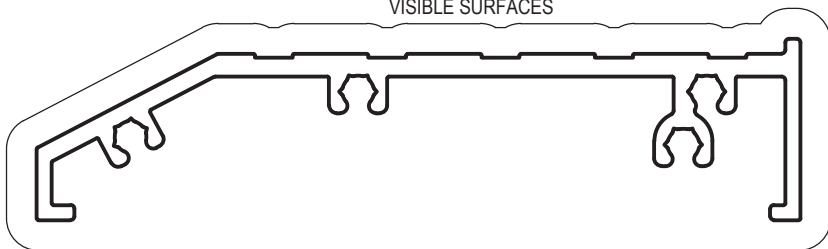
101.6mm THRESHOLD

Mass. 1.136 Kg/m

Anod. Per. 277

Paint Per. 131

VISIBLE SURFACES



AS1855

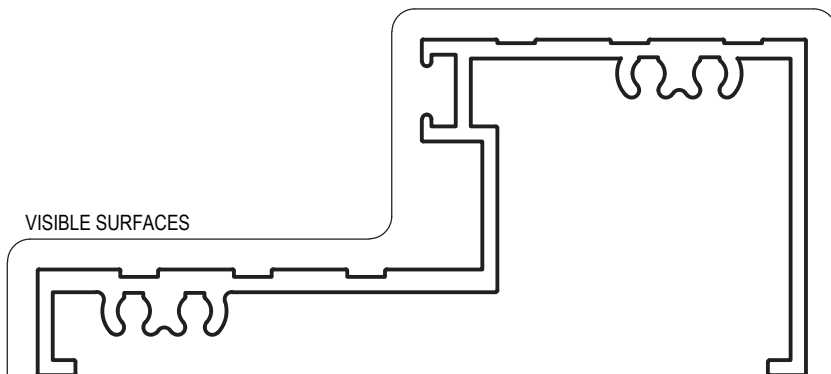
101mm THRESHOLD

Mass. 1.202 Kg/m

Anod. Per. 370

Paint Per. 143

VISIBLE SURFACES



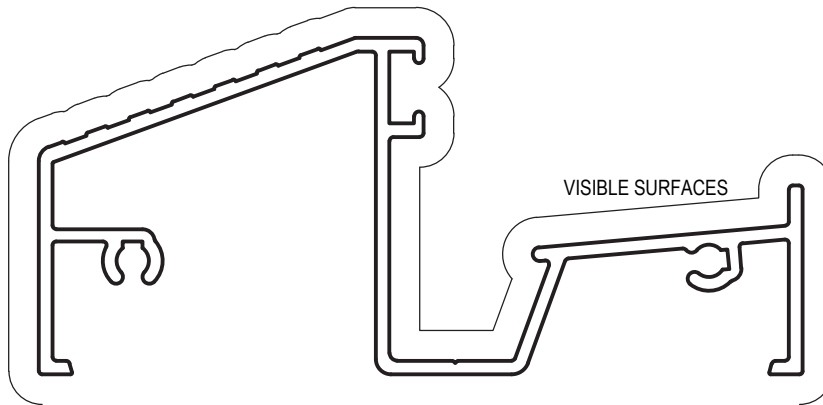
AS2366

45mm DOOR THRESHOLD
OUTWARD OPENING

Mass. 1.552 Kg/m

Anod. Per. 491

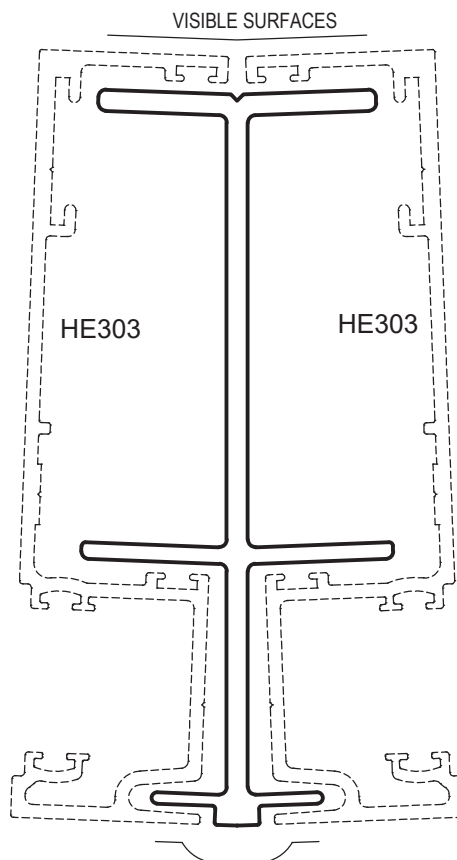
Paint Per. 239



AS2371

45mm DOOR THRESHOLD
INWARD OPENING

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



HE393

5 DEGREE MULLION
SPLICE/ COUPLER

Mass. 1.320 Kg/m
Anod. Per. 376
Paint Per. 100

$I_{xx} = 504.78 \times 10^3 \text{ mm}^4$

NON STOCK ITEM
MINIMUM ORDER
QTY APPLIES

6. Hardware & Components

Glazing Wedges

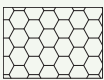
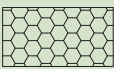
IMAGE	TO SUIT GAP	MATERIAL	PART #	DESCRIPTION
	3mm	PVC	1313055	GR43 GLAZING WEDGE (BROWN) (3mm GAP) PVC x 200m ROLL
		S/PRENE	1313063	GR43S GLAZING WEDGE (BROWN) (3mm GAP) S/PRENE x 200m ROLL
	4mm	PVC	1313056	GR44 GLAZING WEDGE (WHITE) (4mm GAP) PVC x 200m ROLL
		S/PRENE	1313064	GR44S GLAZING WEDGE (WHITE) (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
	1376300	BLACK (034)	HB1 BULB SEAL x 100m
	1377414	BLACK (034)	PS13 13mm FRINGE PILE x 100m
		GREY (036)	
	1378182	BLACK (034)	HE007 6.4mm x 9mm SPACER TAPE x 15m
	1378183	BLACK (034)	HE008 6.4mm x 12mm SPACER TAPE x 15m

Fasteners

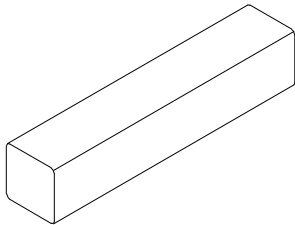
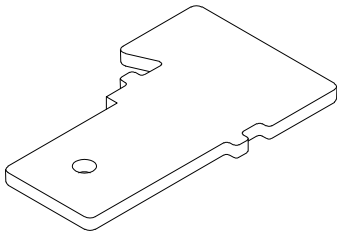
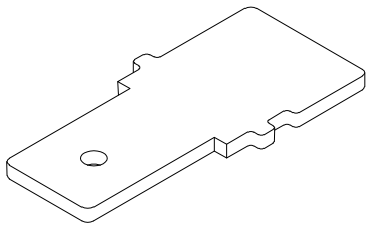
SCREWS			
PART #	HEAD	DESCRIPTION	LOCATION
1382644	SQUARE #2	10g x 1 (25mm) 304SS SQ #2 PAN S/TAP SCREW x 1000	MAIN FRAME
1382659	SQUARE #2	10g x 2 (51mm) 304SS SQ #2 CSK S/TAP SCREW x 1000	MULLION

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 HE301 & HE302)	
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

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

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

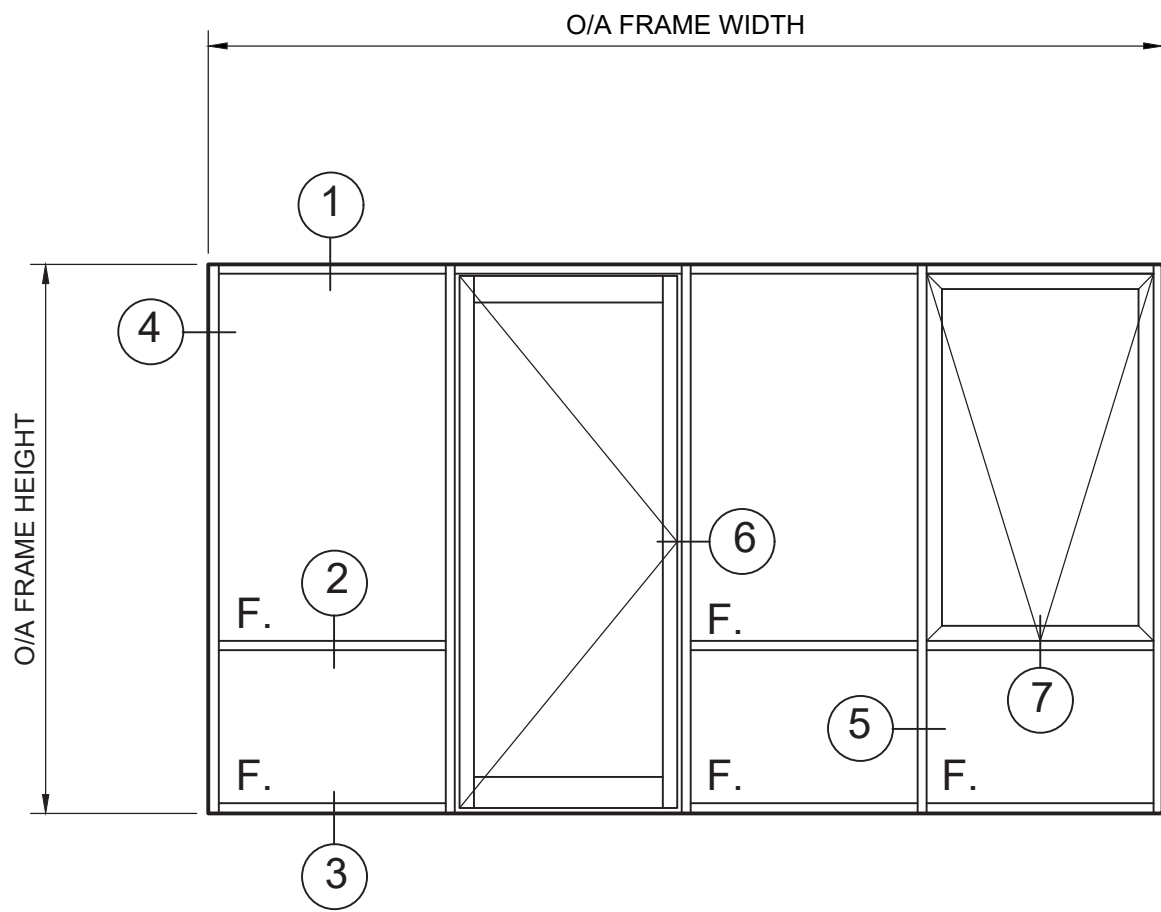
*For more information on silicones,
please refer to Alspec Silicone Brochure.



6. Hardware & Components

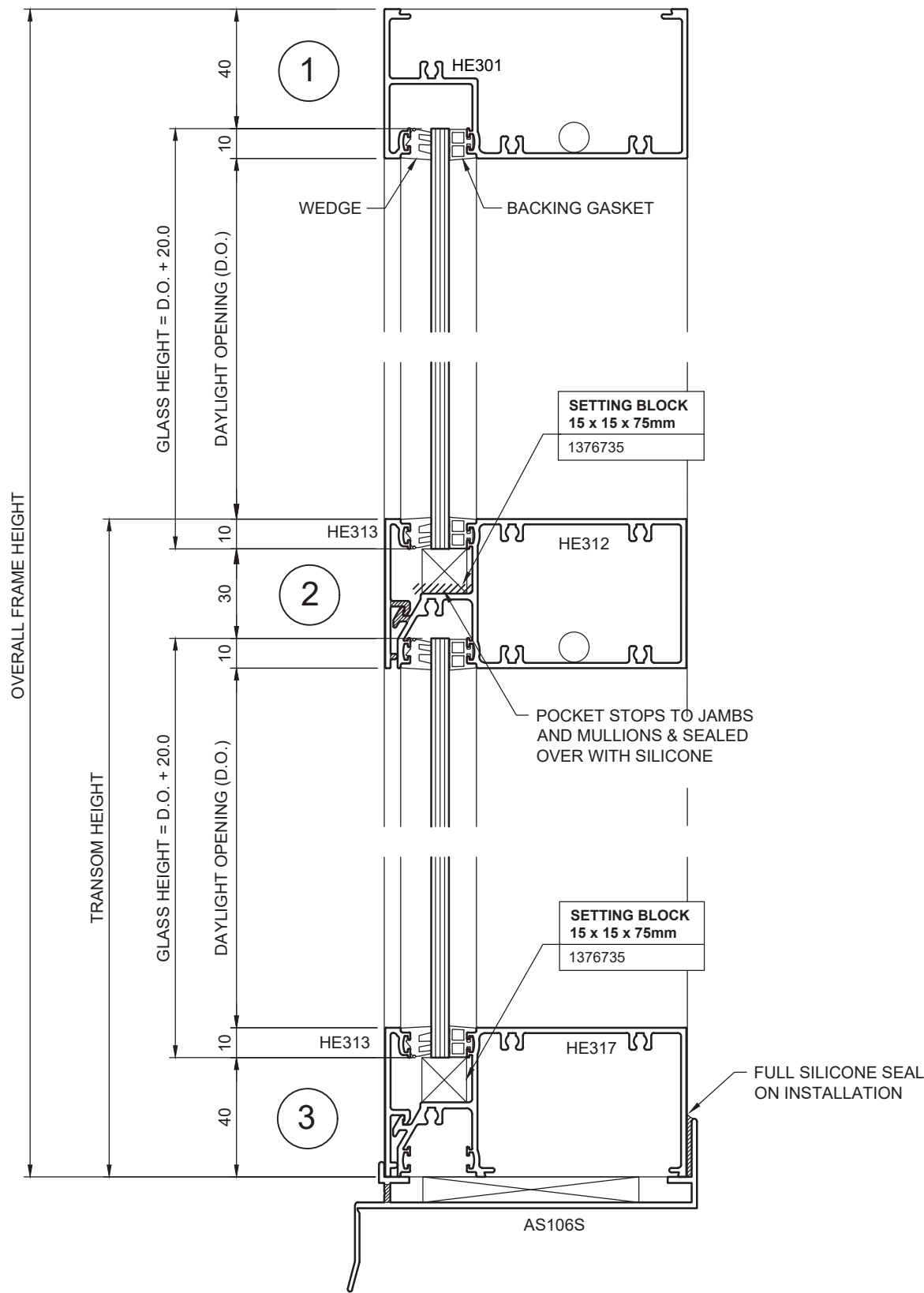
Silicone Product Codes

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



8. Typical Details

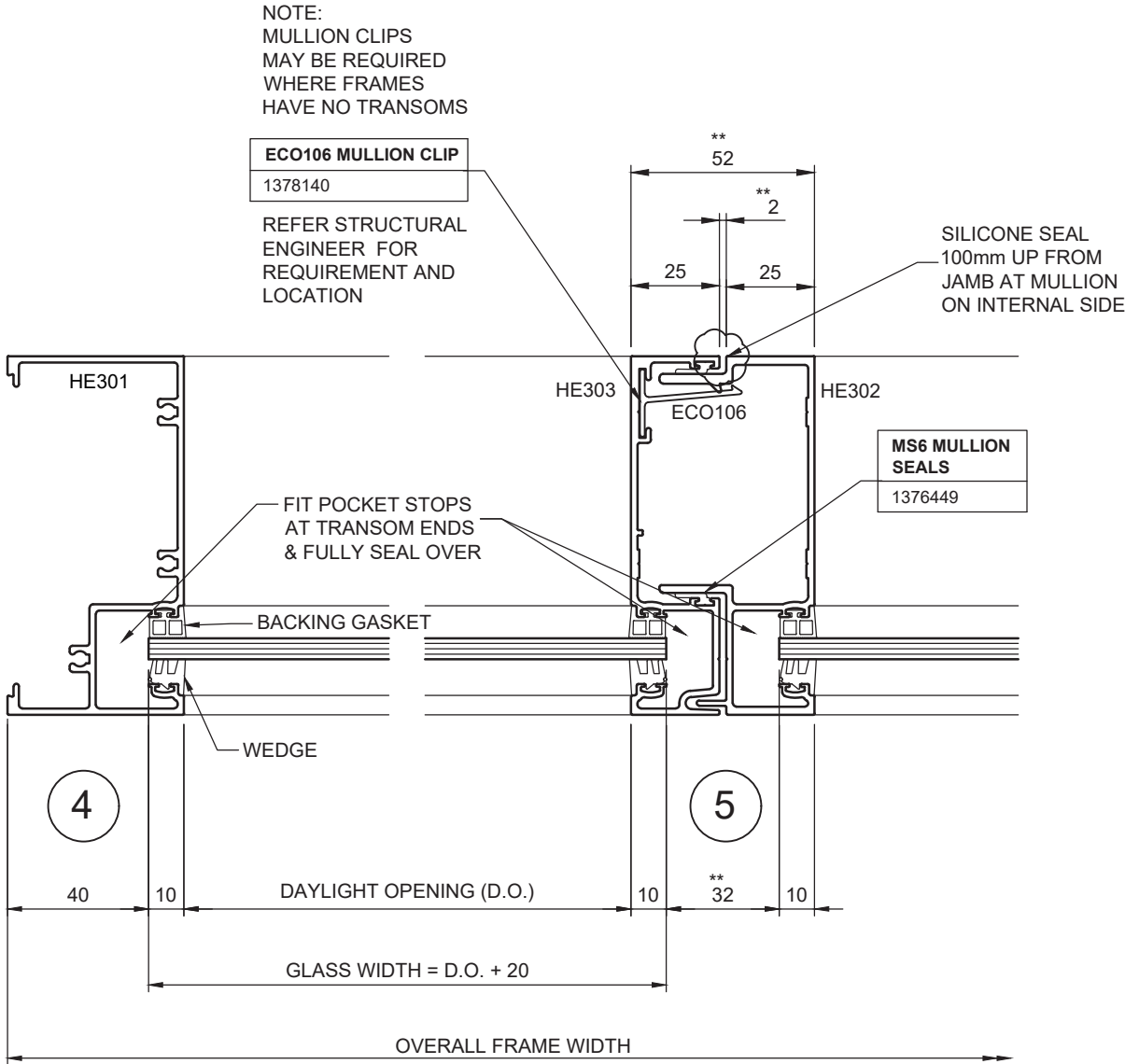
Typical Head, Transom and Sill Details



8. Typical Details

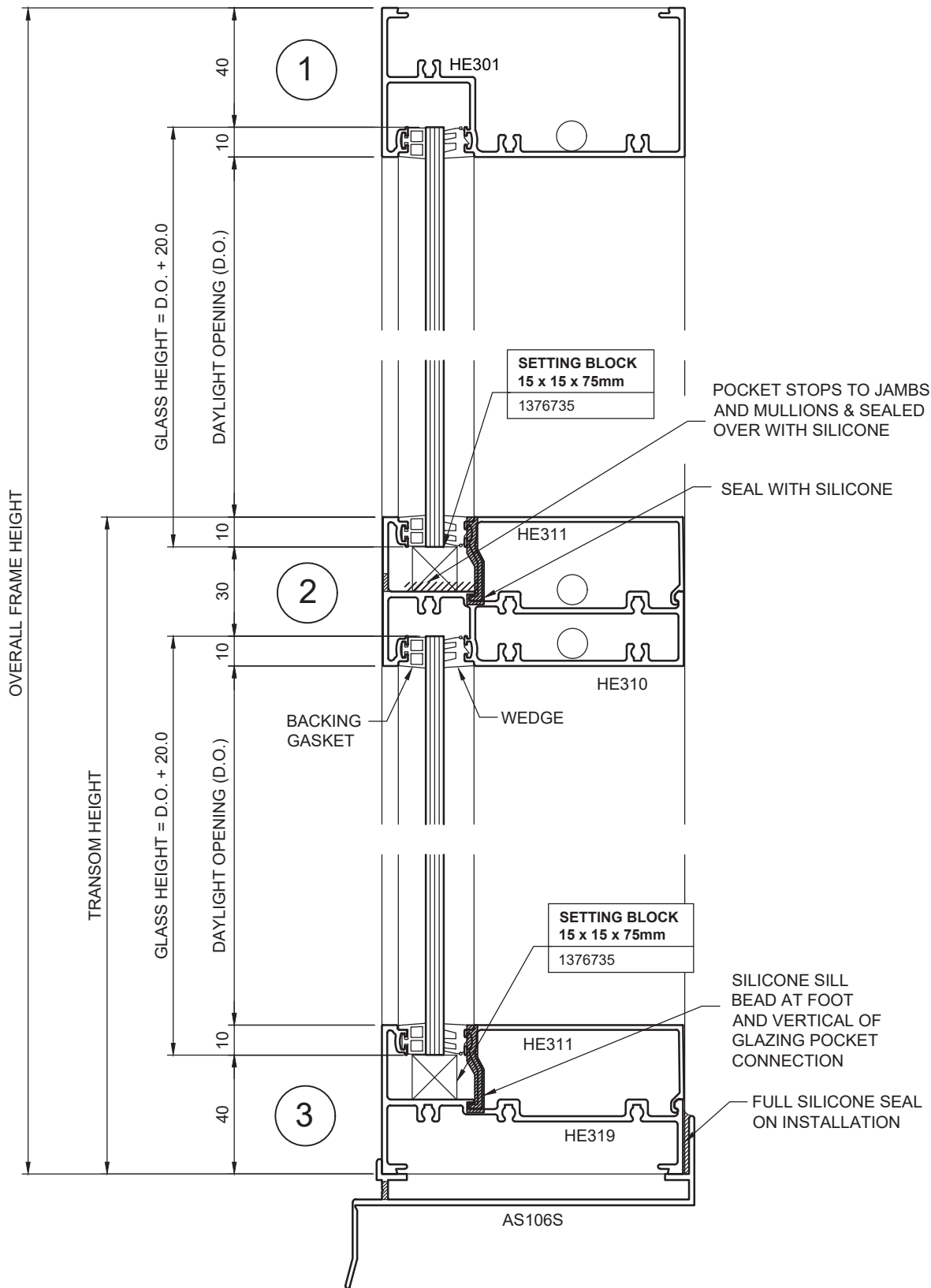
Typical Jamb/ Mullion Details

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



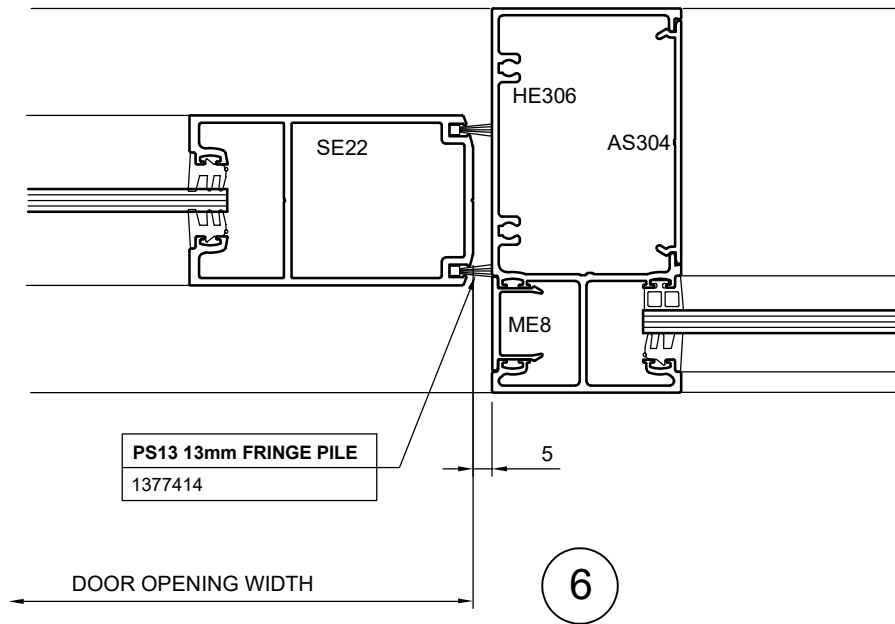
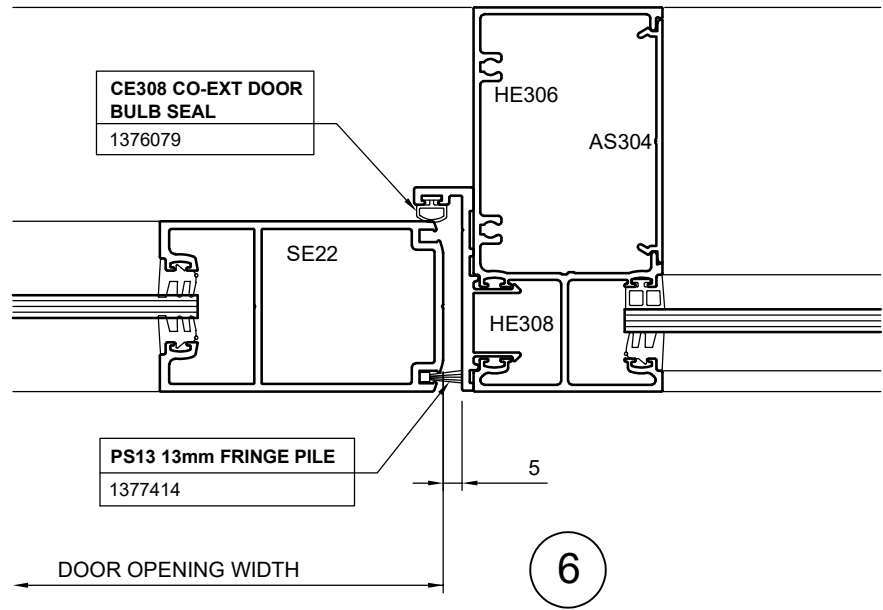
8. Typical Details

Typical Head, Transom and Sill Details - Internal Glaze



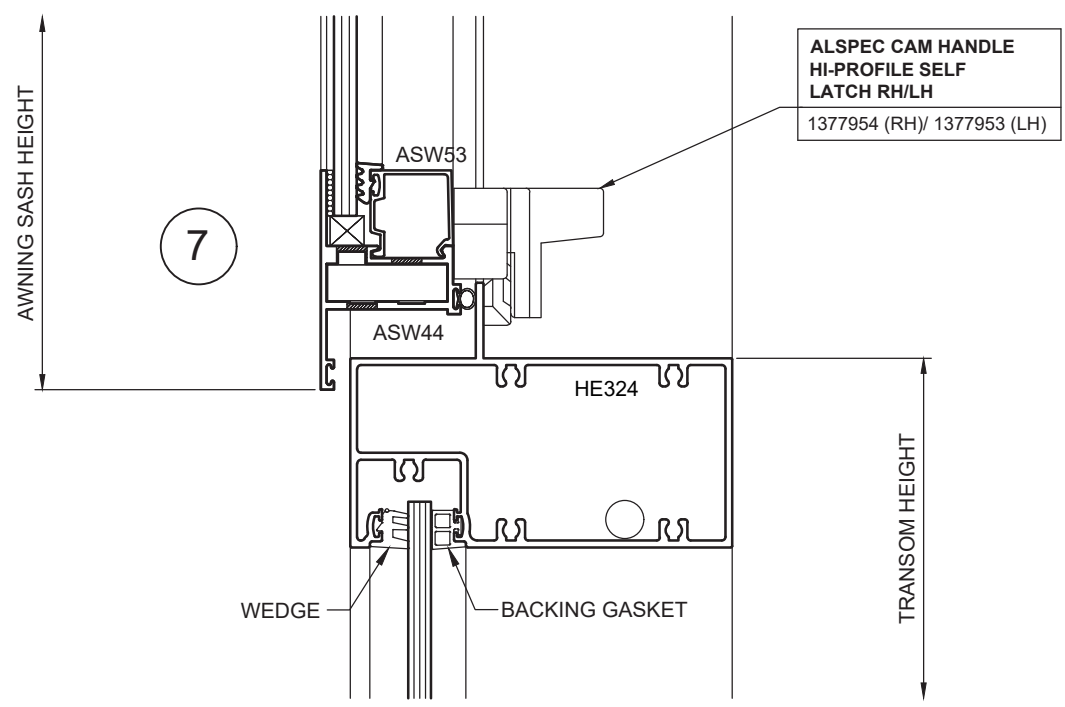
8. Typical Details

Typical Door Jamb Details

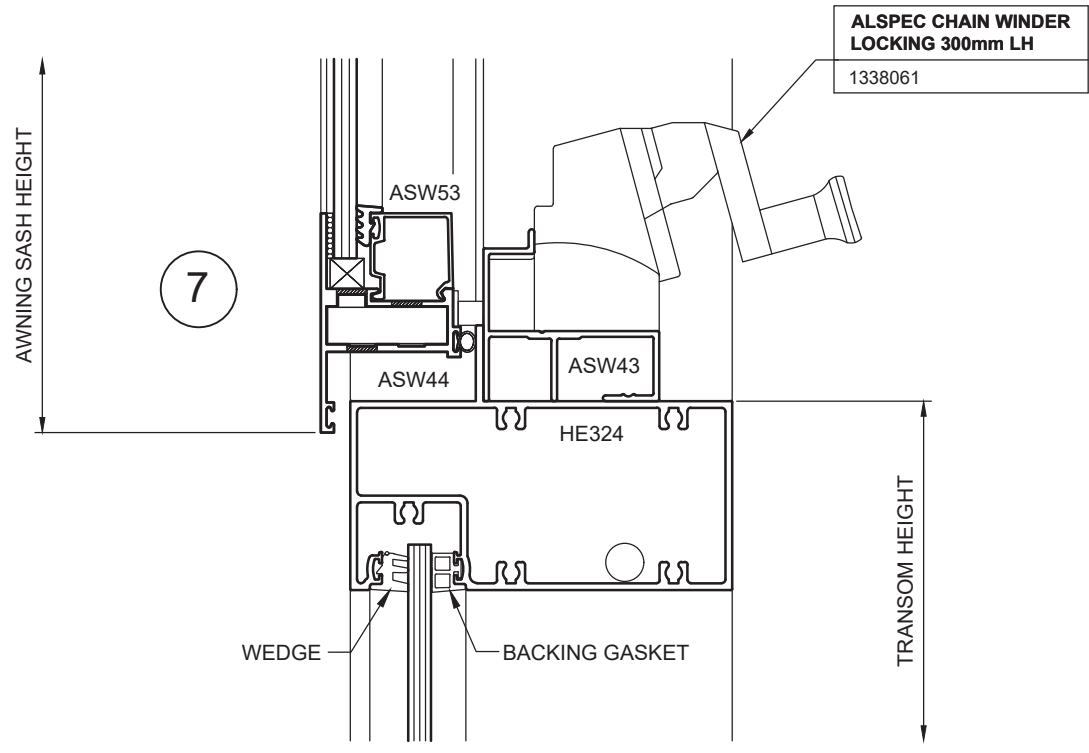


8. Typical Details

Typical Transom Details - 35mm Awning/ Fixed

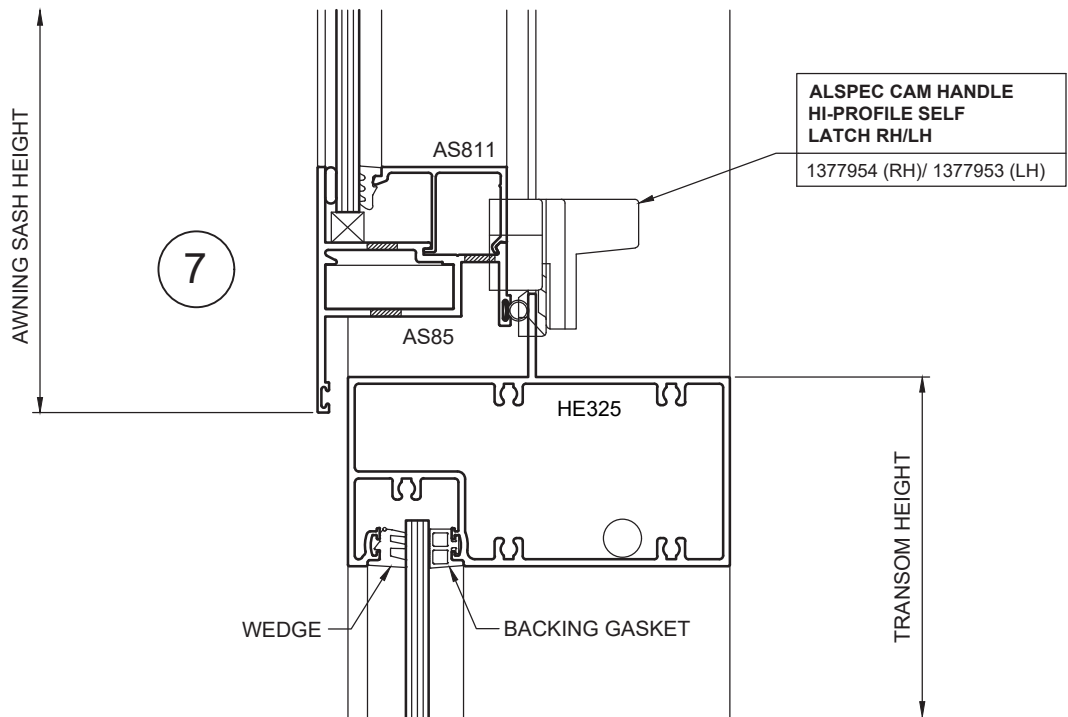


NOTE:
REFER TO AWNING/
CASEMENT TECH MANUALS
FOR FULL DETAILS & RANGE
OF HARDWARES

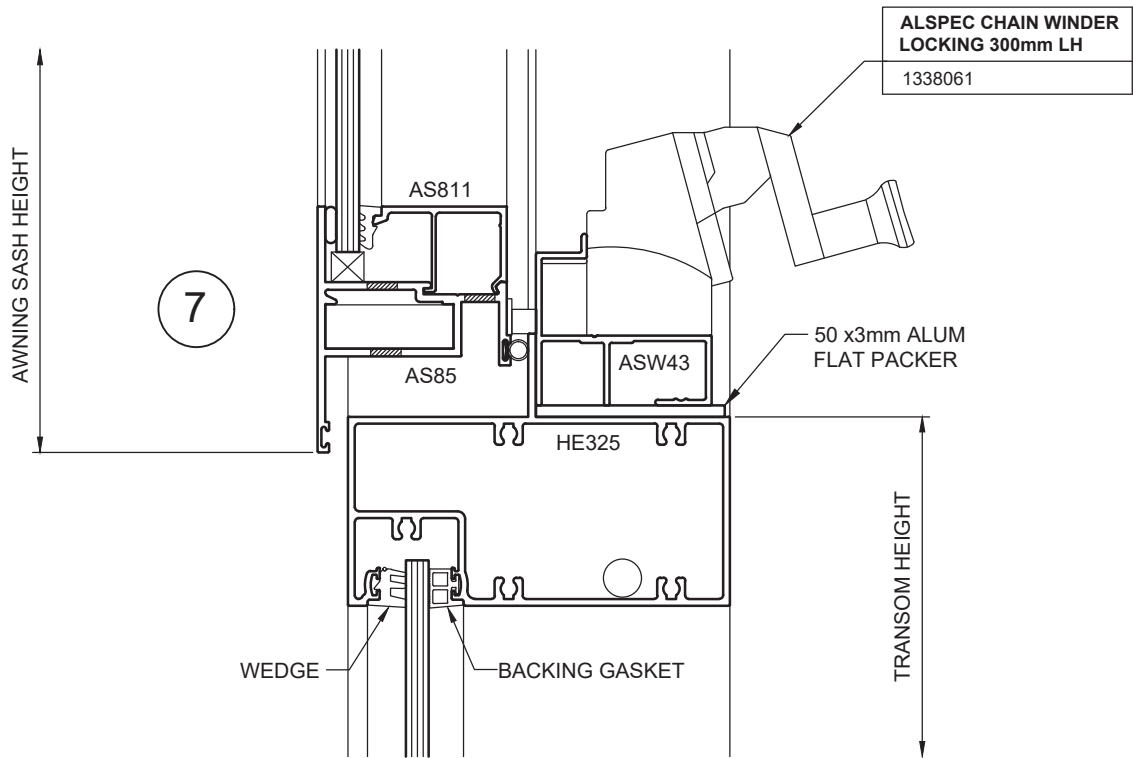


8. Typical Details

Typical Transom Details - 50mm Awning/ Fixed



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

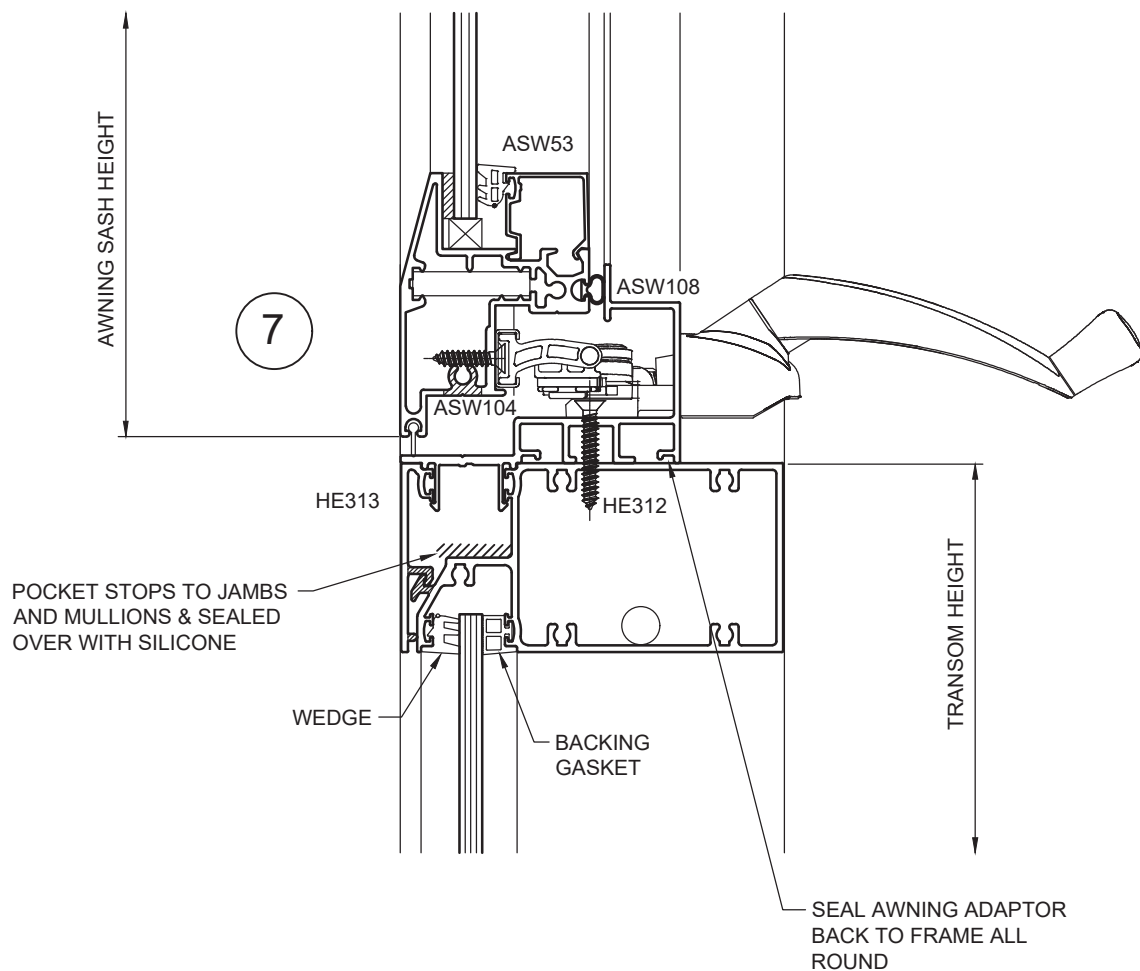




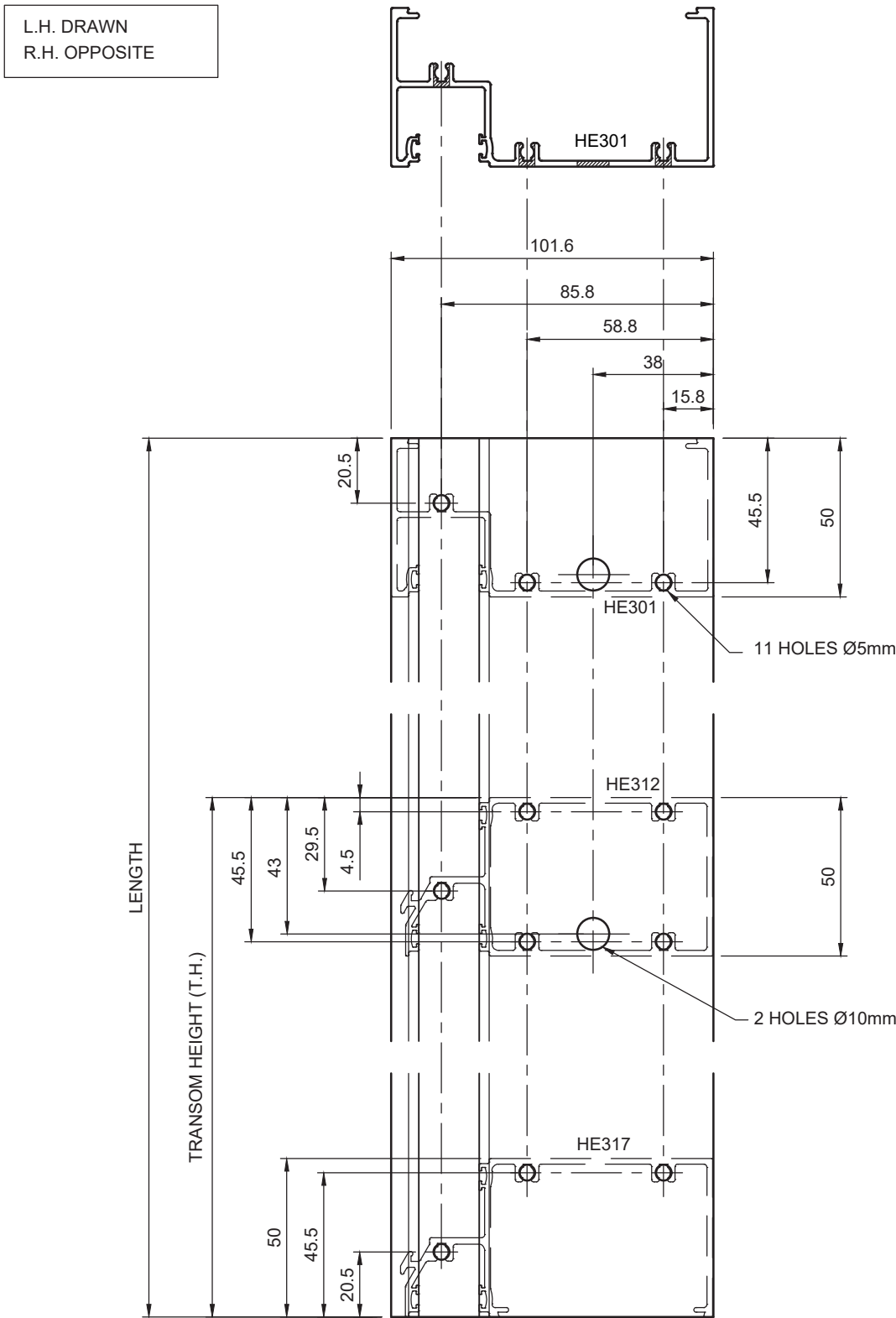
8. Typical Details

Typical Transom Details - ProTilt Awning/ Fixed

NOTE:
REFER TO PROTILT TECH
MANUALS FOR FULL
DETAILS & RANGE OF
HARDWARES



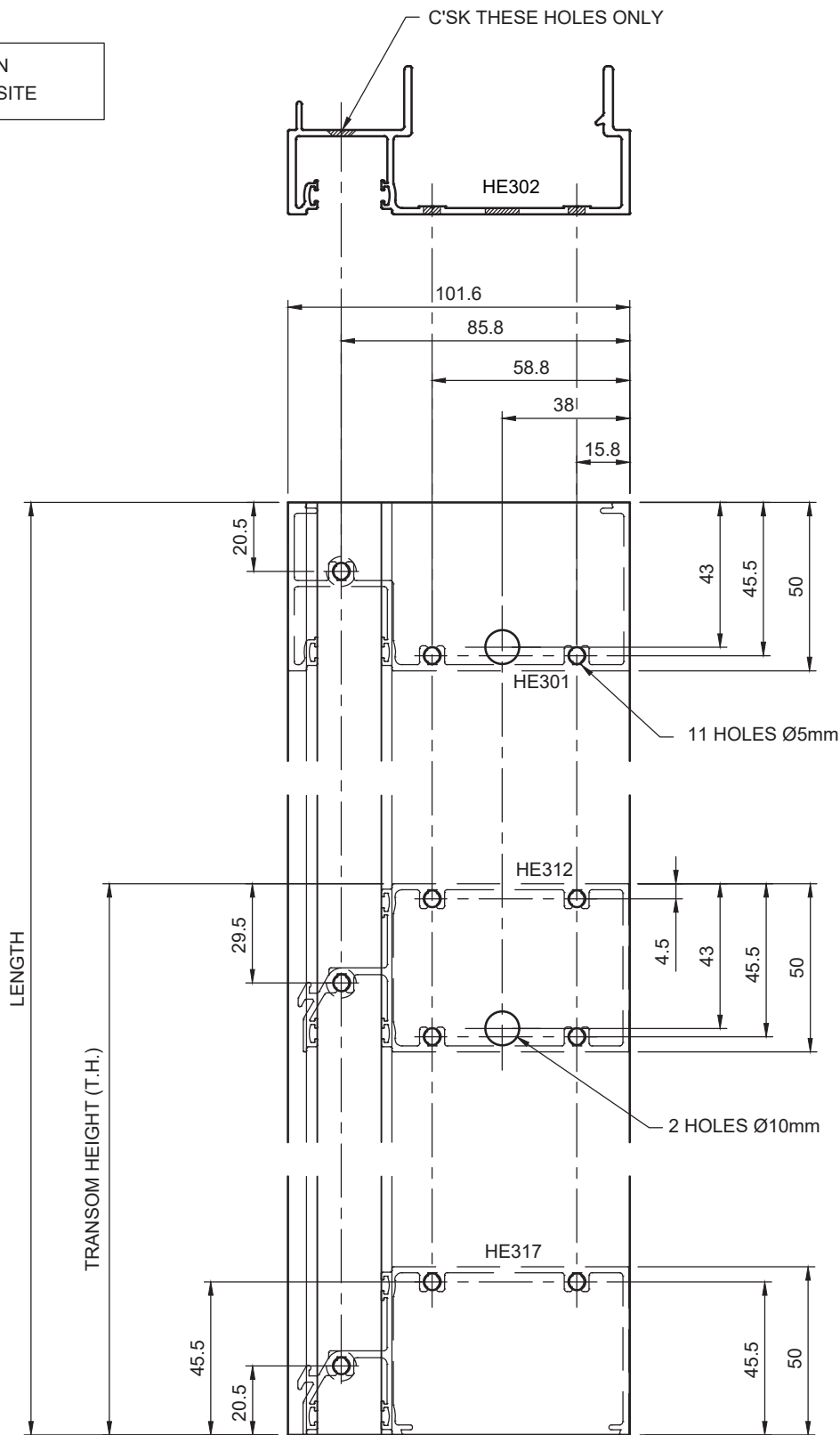
Frame Preparation - External Glaze



10. Manufacturing Details

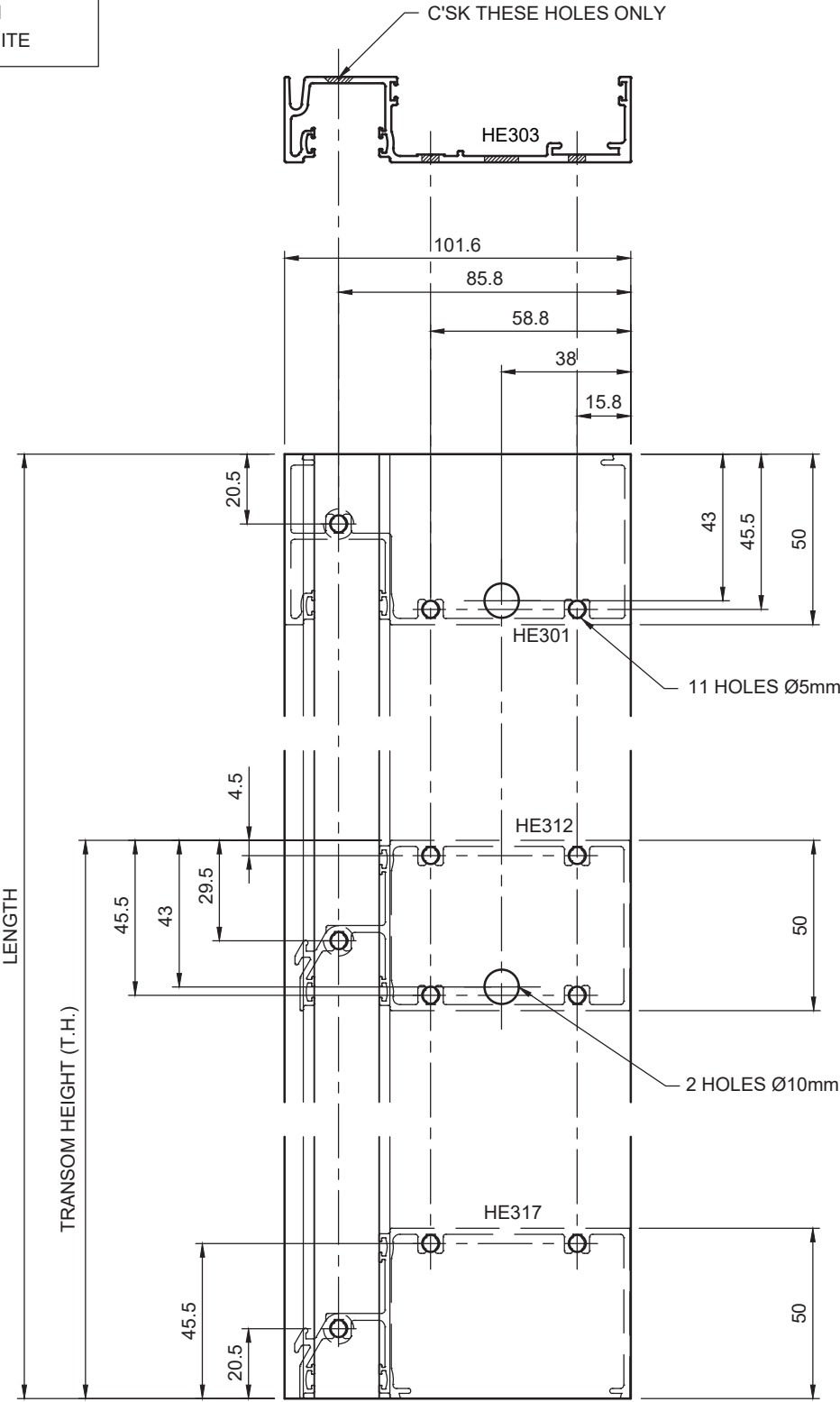
Frame Preparation - External Glaze

L.H. DRAWN
R.H. OPPOSITE



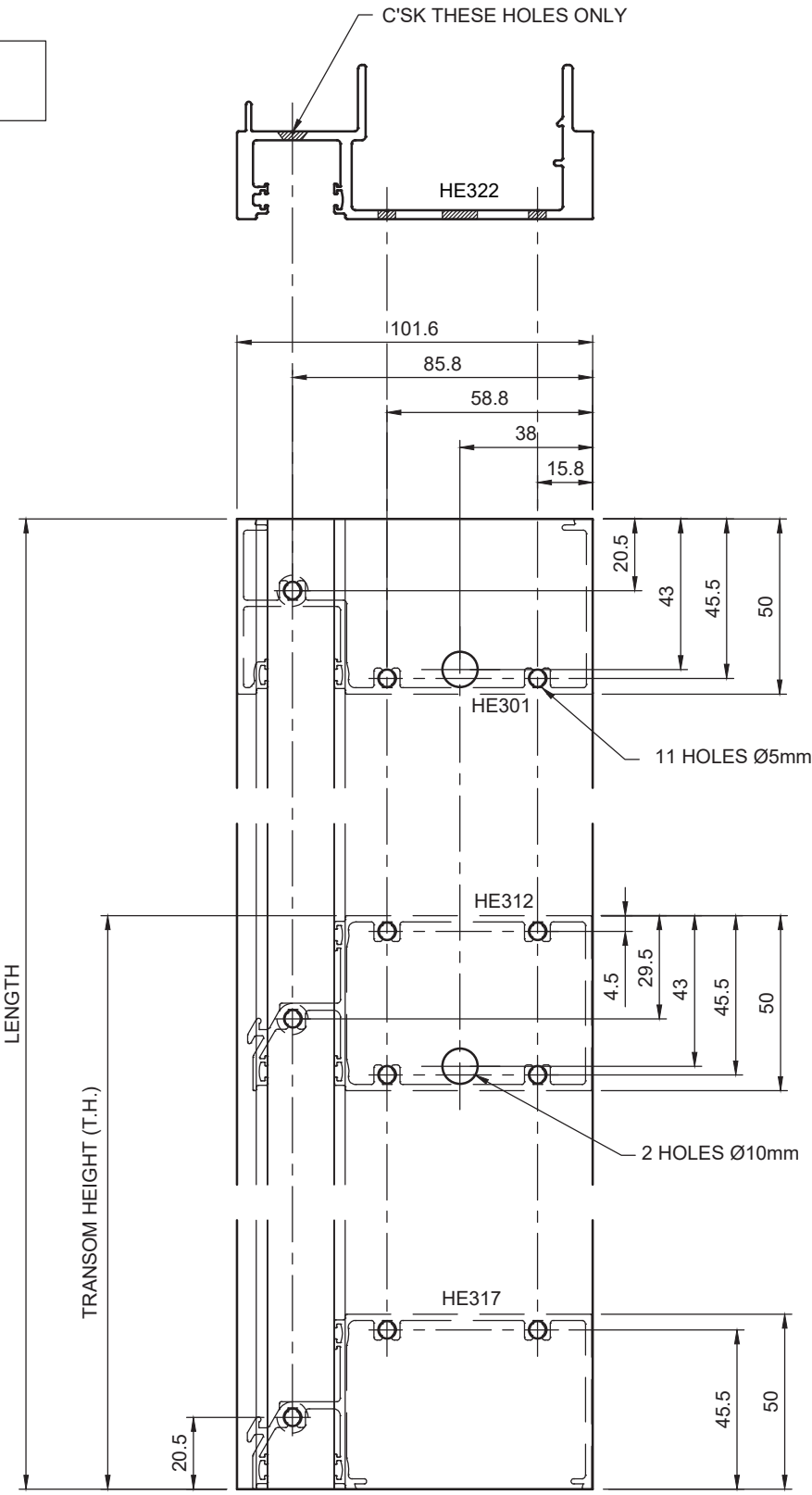
Frame Preparation - External Glaze

L.H. DRAWN
R.H. OPPOSITE

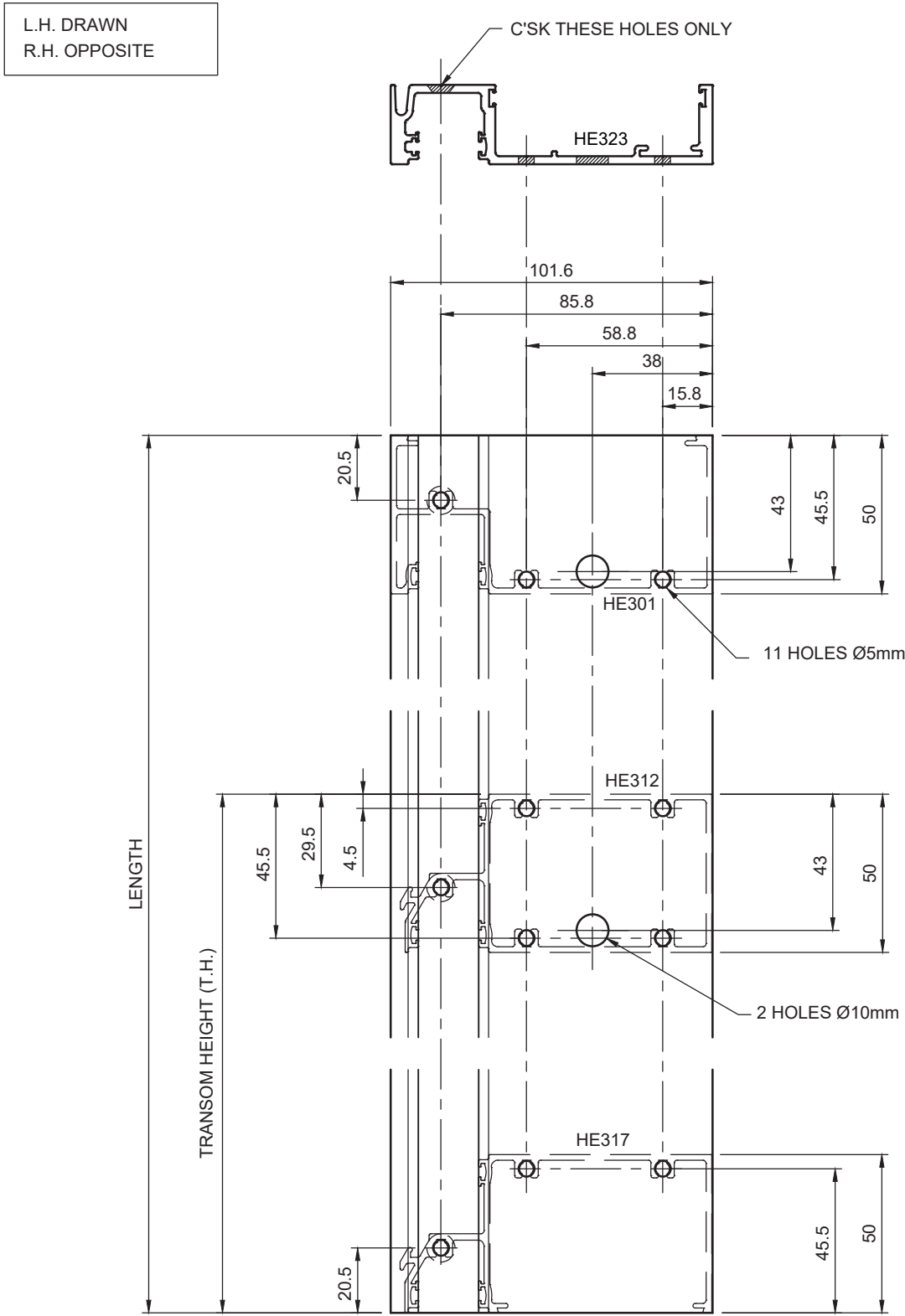


Frame Preparation - External Glaze

L.H. DRAWN
R.H. OPPOSITE



Frame Preparation - External Glaze



Frame Preparation - Internal Glaze

Technical drawing of the HE301 transom assembly, showing side and end views with dimensions.

Side View Dimensions:

- Overall Length: 101.6
- Distance from left edge to first hole center: 85.8
- Distance between first and second hole centers: 58.8
- Distance between second and third hole centers: 38
- Distance from third hole center to right edge: 15.8
- Transom Height (T.H.): 50
- Distance from top edge to hole center line: 45.5
- Distance from hole center line to bottom edge: 43
- Distance from top edge to bottom flange: 20.5

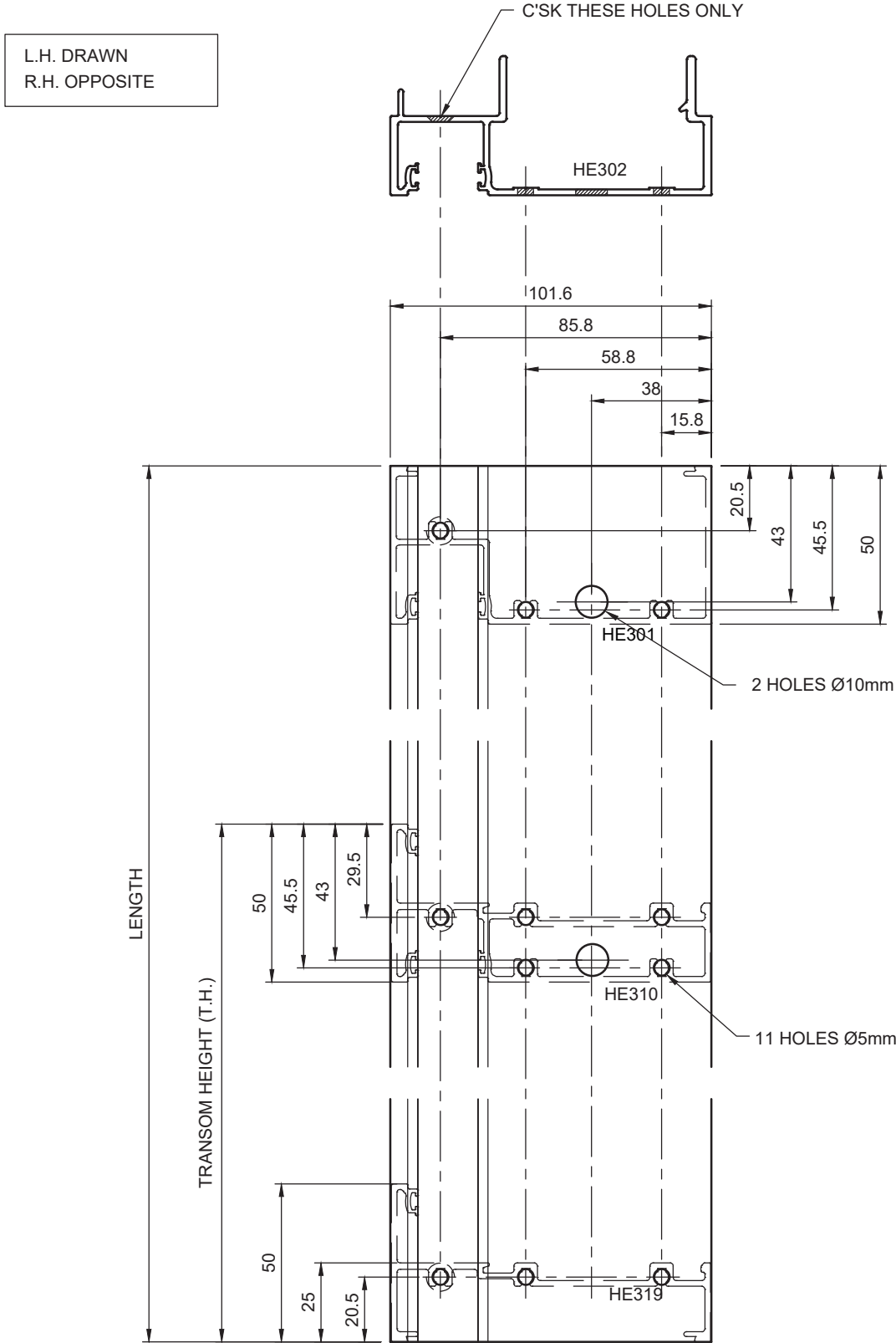
End View Dimensions:

- Overall Length: 50
- Distance from left edge to first hole center: 45.5
- Distance between first and second hole centers: 43
- Distance between second and third hole centers: 29.5
- Distance from third hole center to right edge: 25
- Transom Height (T.H.): 50
- Distance from top edge to hole center line: 45.5
- Distance from hole center line to bottom edge: 43
- Distance from top edge to bottom flange: 20.5

Assembly Details:

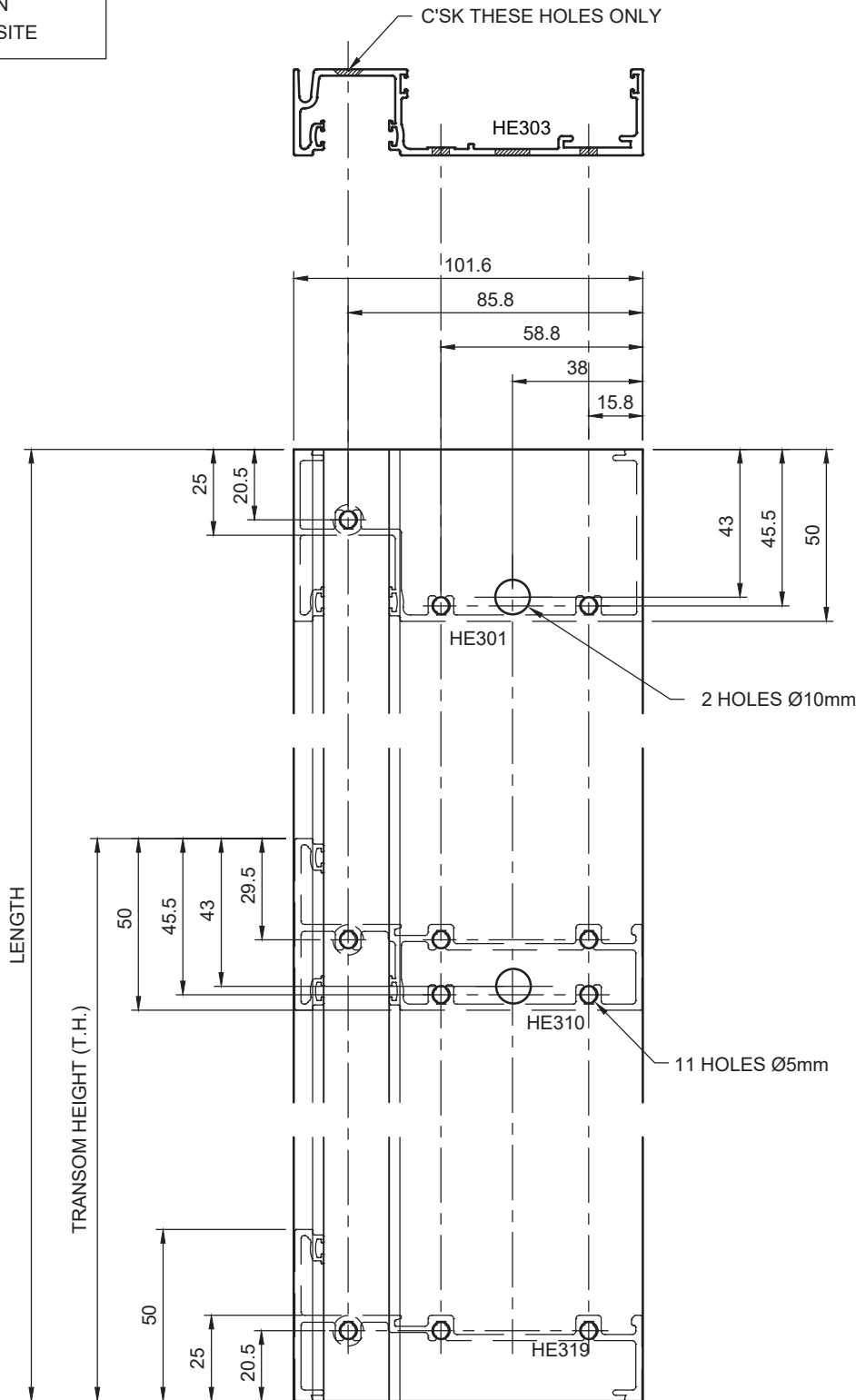
- HE301: Label for the transom assembly.
- 2 HOLES Ø10mm: Two holes for mounting.
- 11 HOLES Ø5mm: Eleven holes for mounting.

Frame Preparation - Internal Glaze

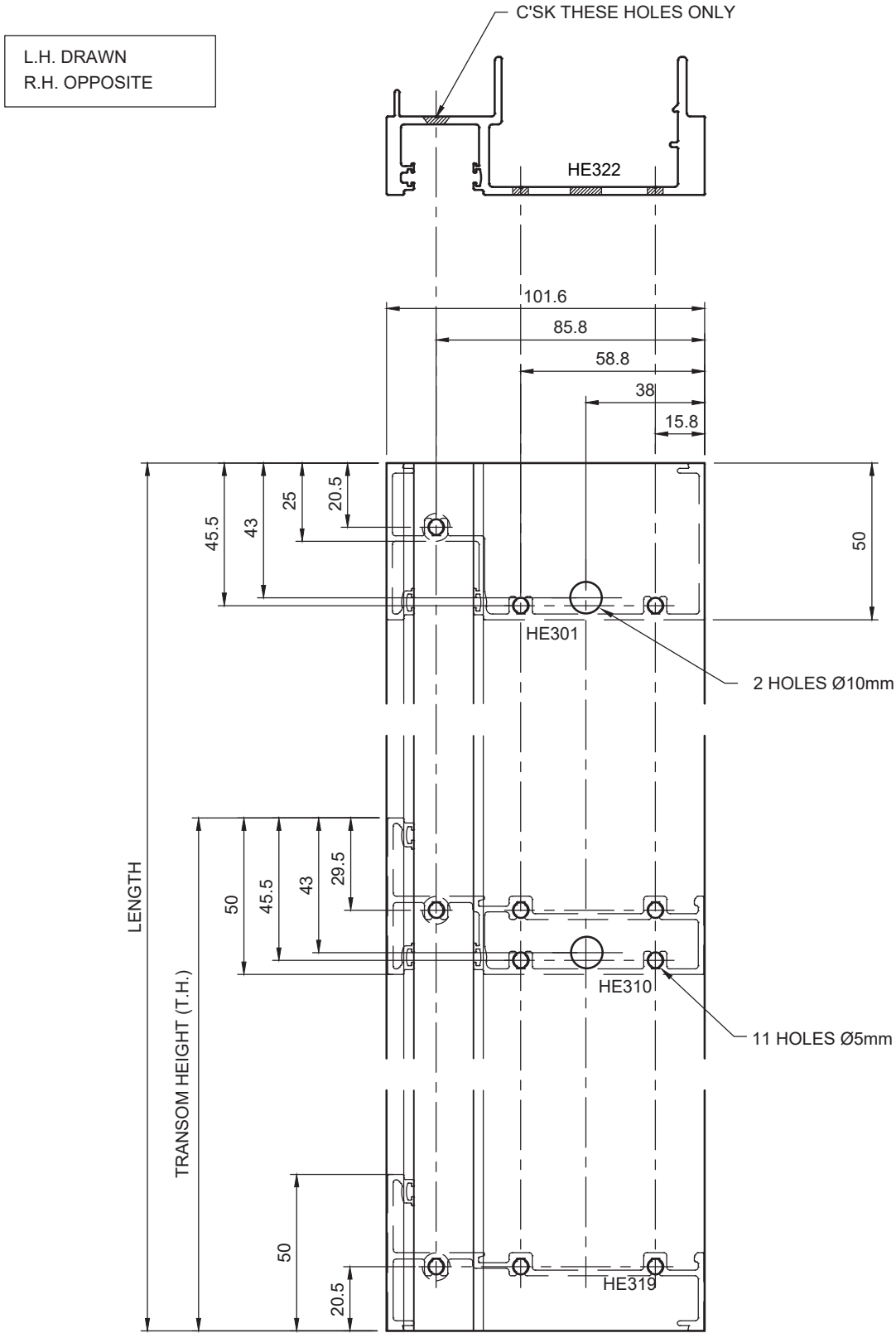


Frame Preparation - Internal Glaze

L.H. DRAWN
R.H. OPPOSITE



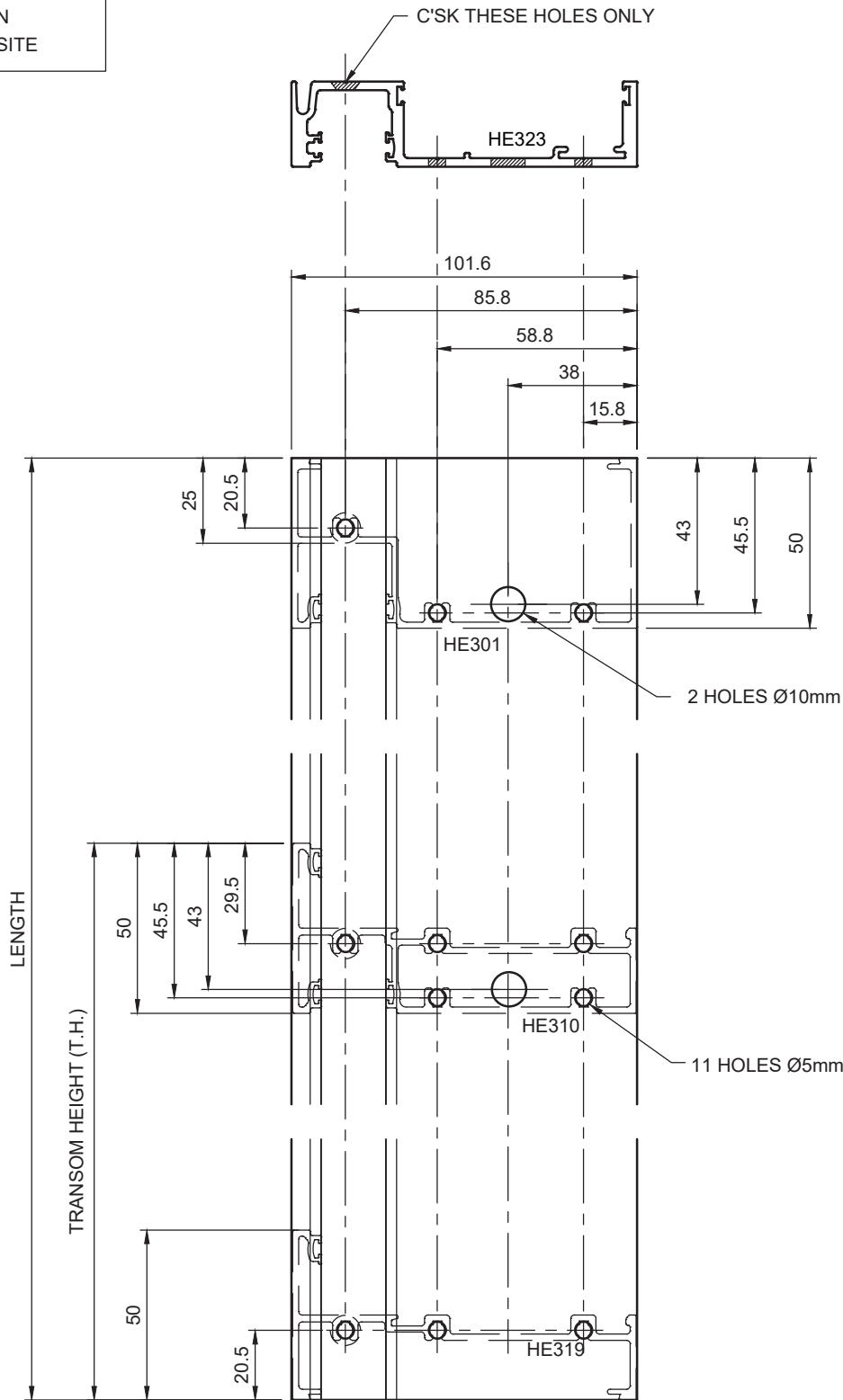
Frame Preparation - Internal Glaze



10. Manufacturing Details

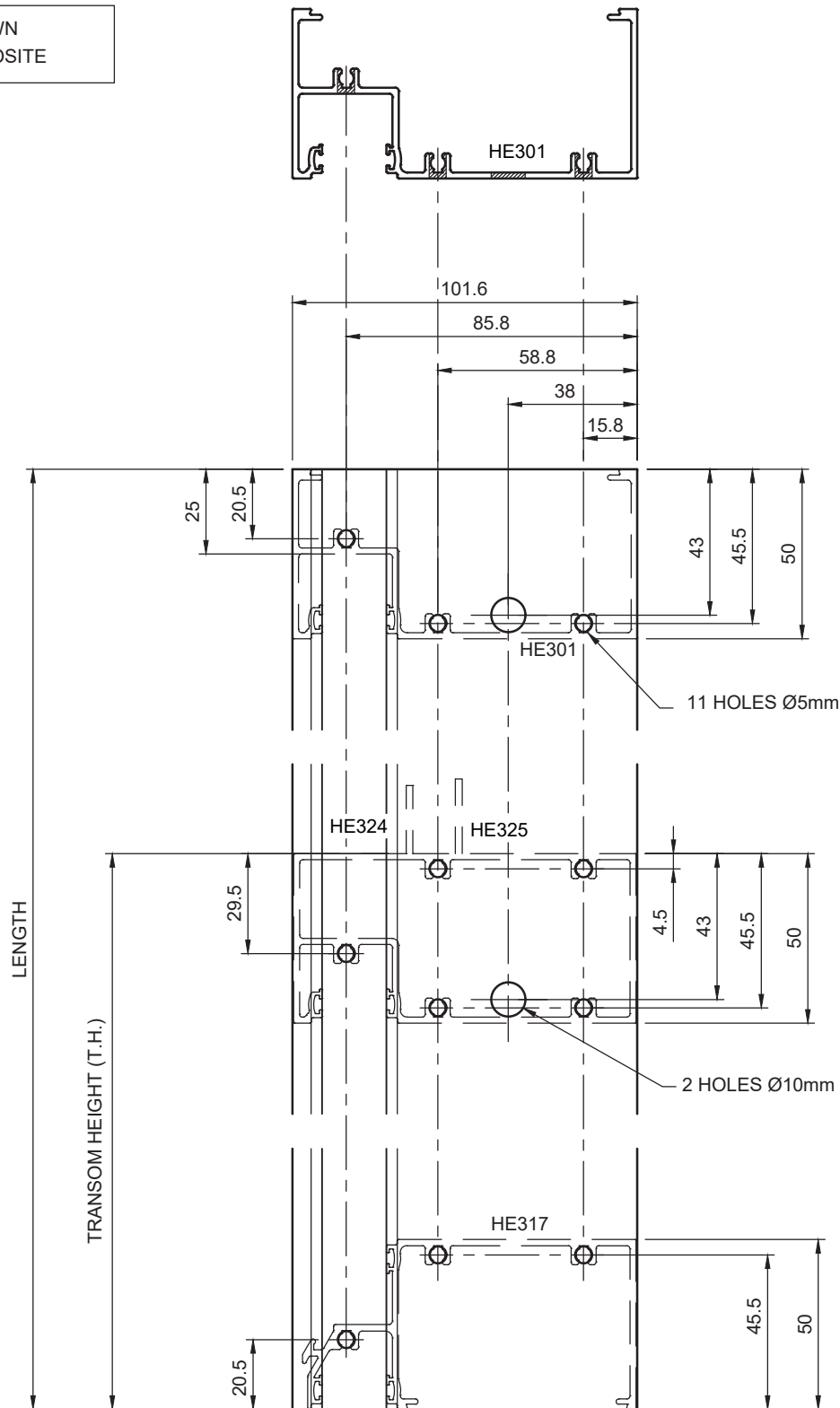
Frame Preparation - Internal Glaze

L.H. DRAWN
R.H. OPPOSITE



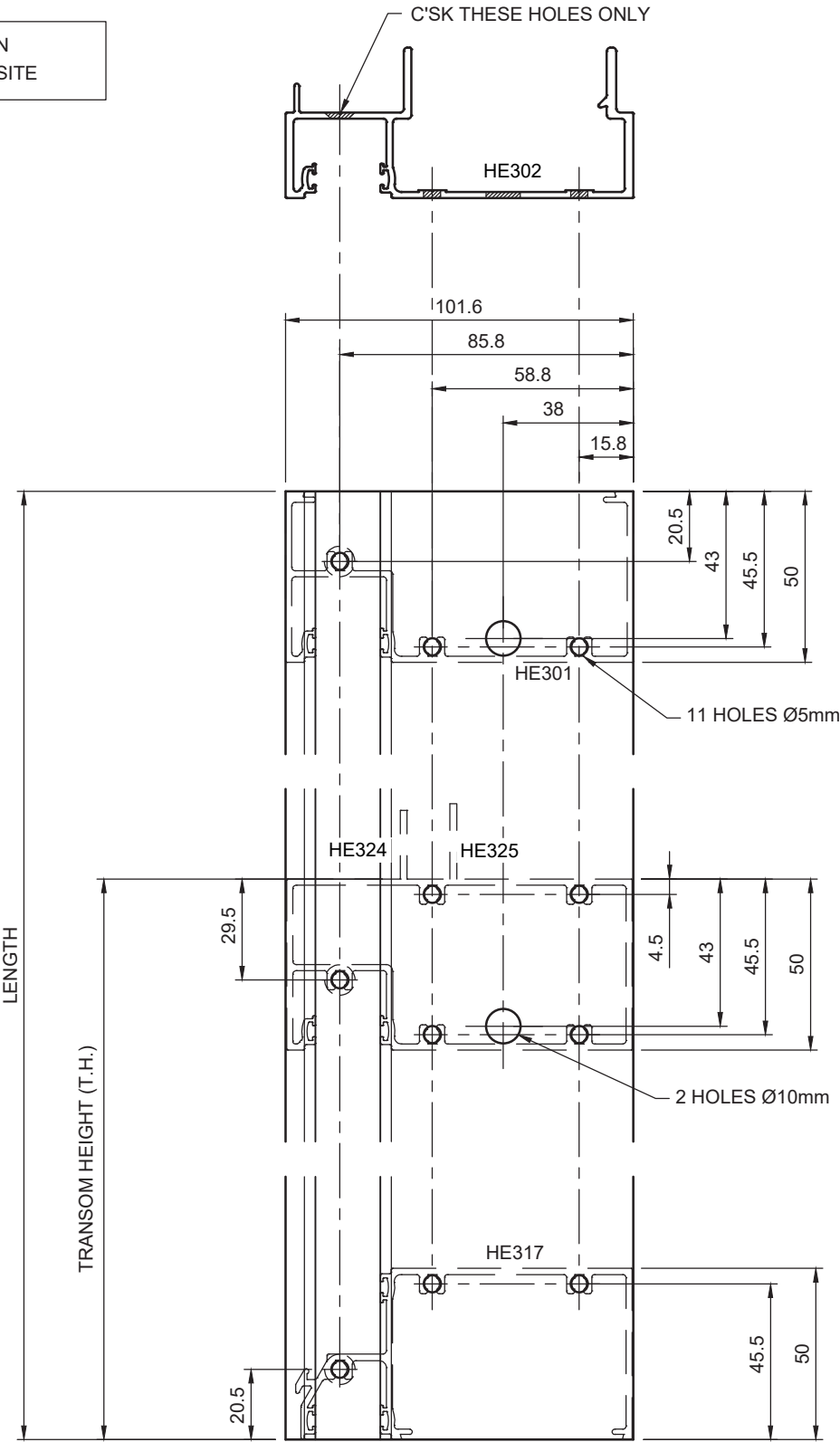
Frame Preparation - External Glaze with Awning and Lowlite

L.H. DRAWN
R.H. OPPOSITE



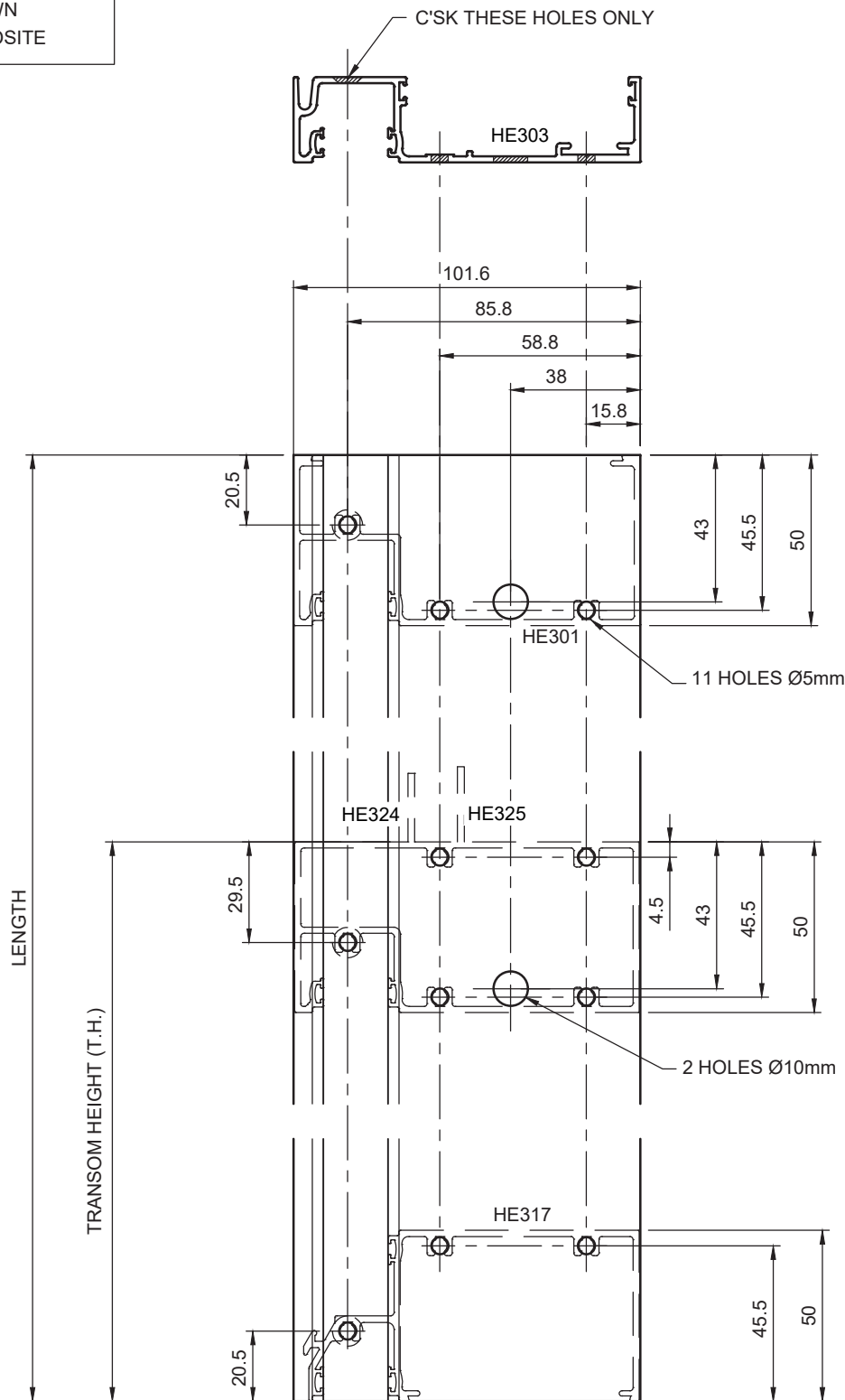
Frame Preparation - External Glaze with Awning and Lowlite

L.H. DRAWN
R.H. OPPOSITE

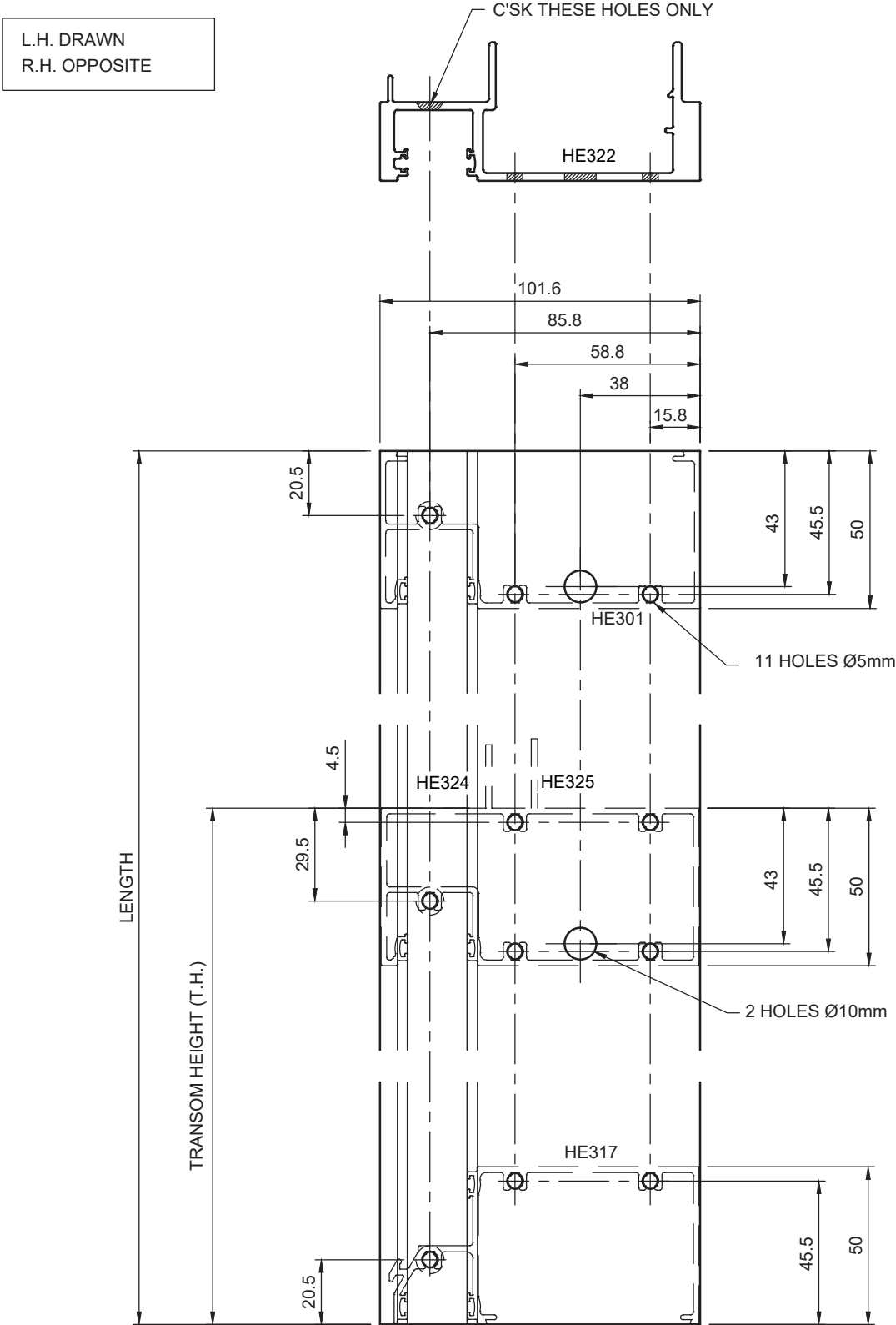


Frame Preparation - External Glaze with Awning and Lowlite

L.H. DRAWN
R.H. OPPOSITE

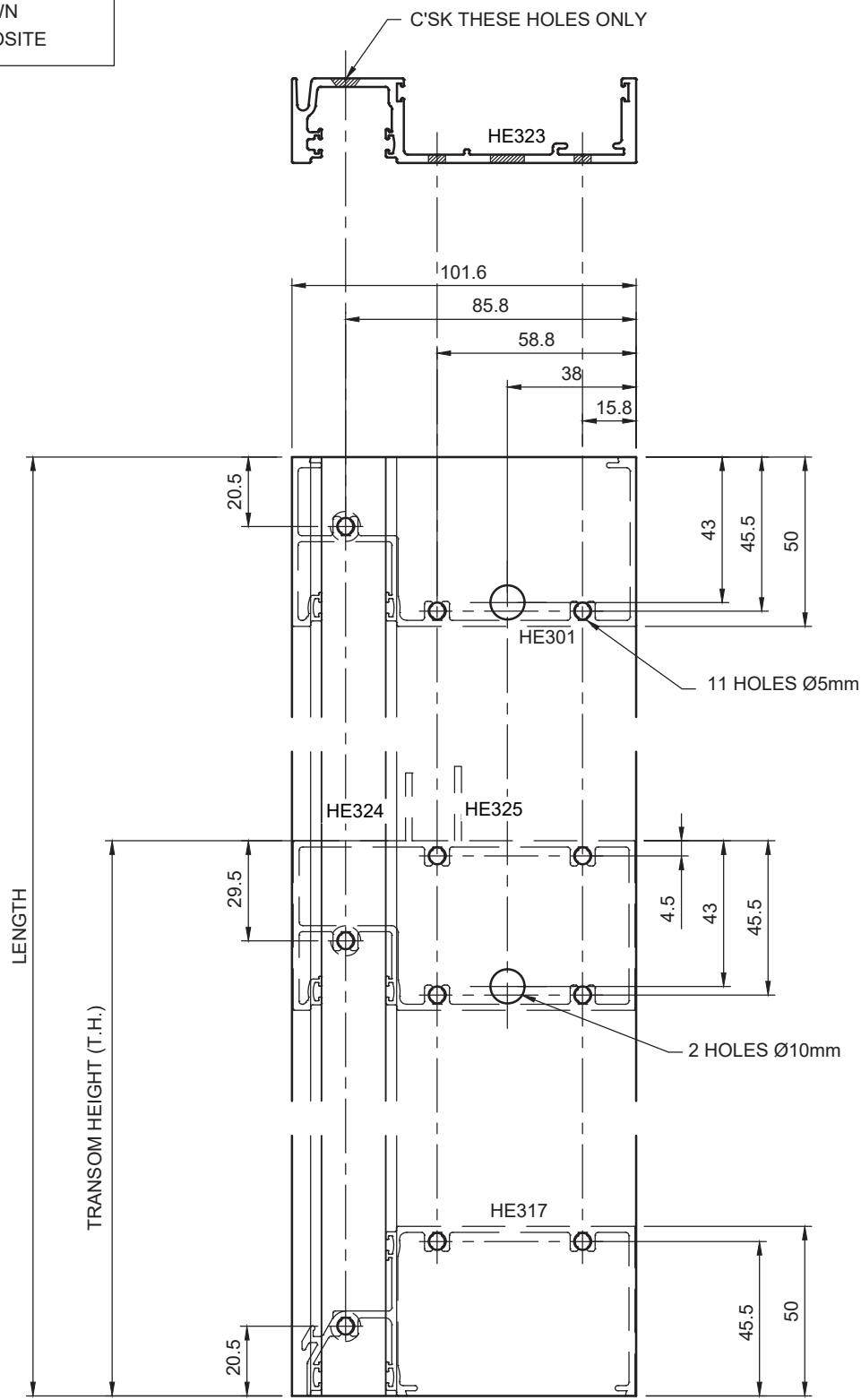


Frame Preparation - External Glaze with Awning and Lowlite



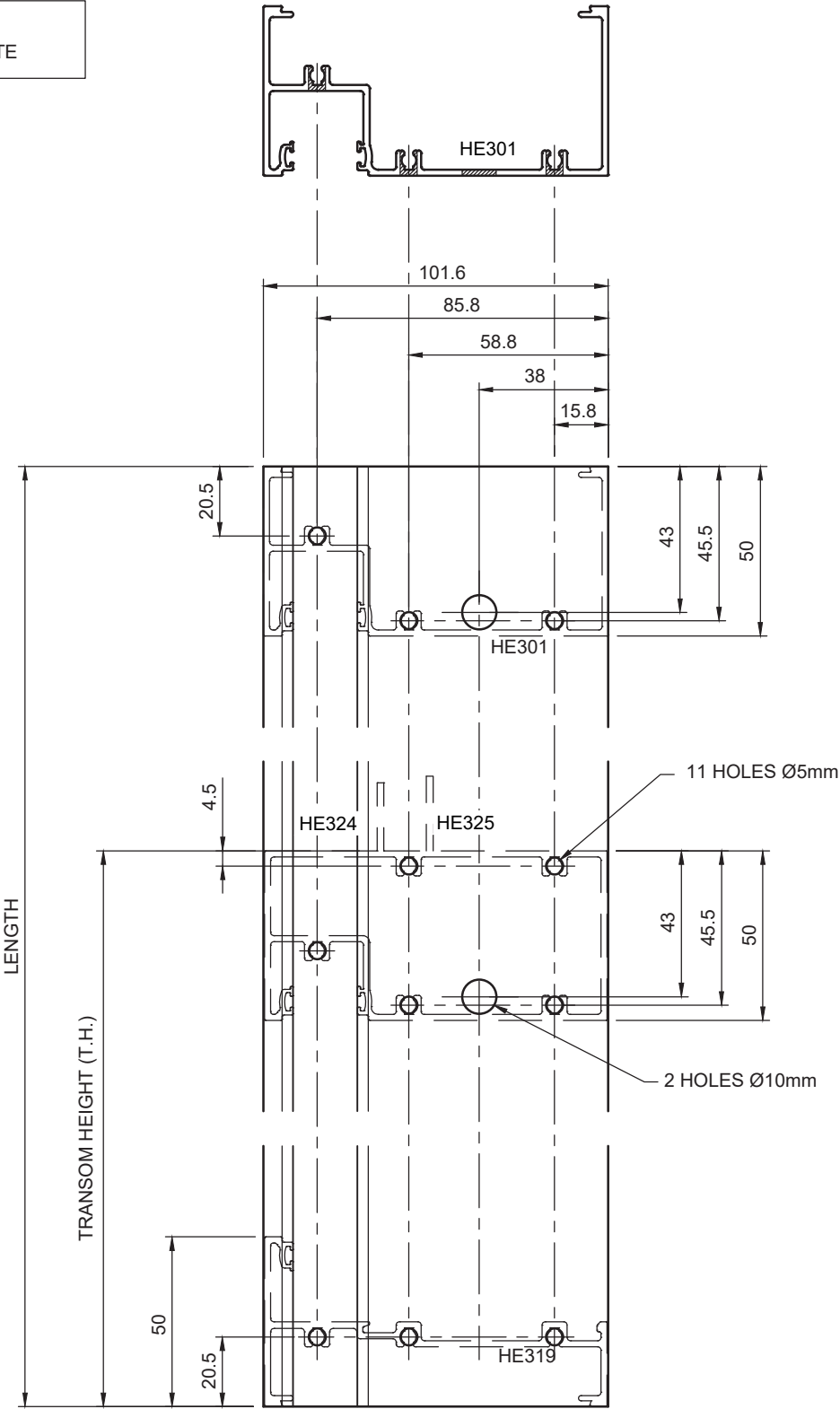
Frame Preparation - External Glaze with Awning and Lowlite

L.H. DRAWN
R.H. OPPOSITE



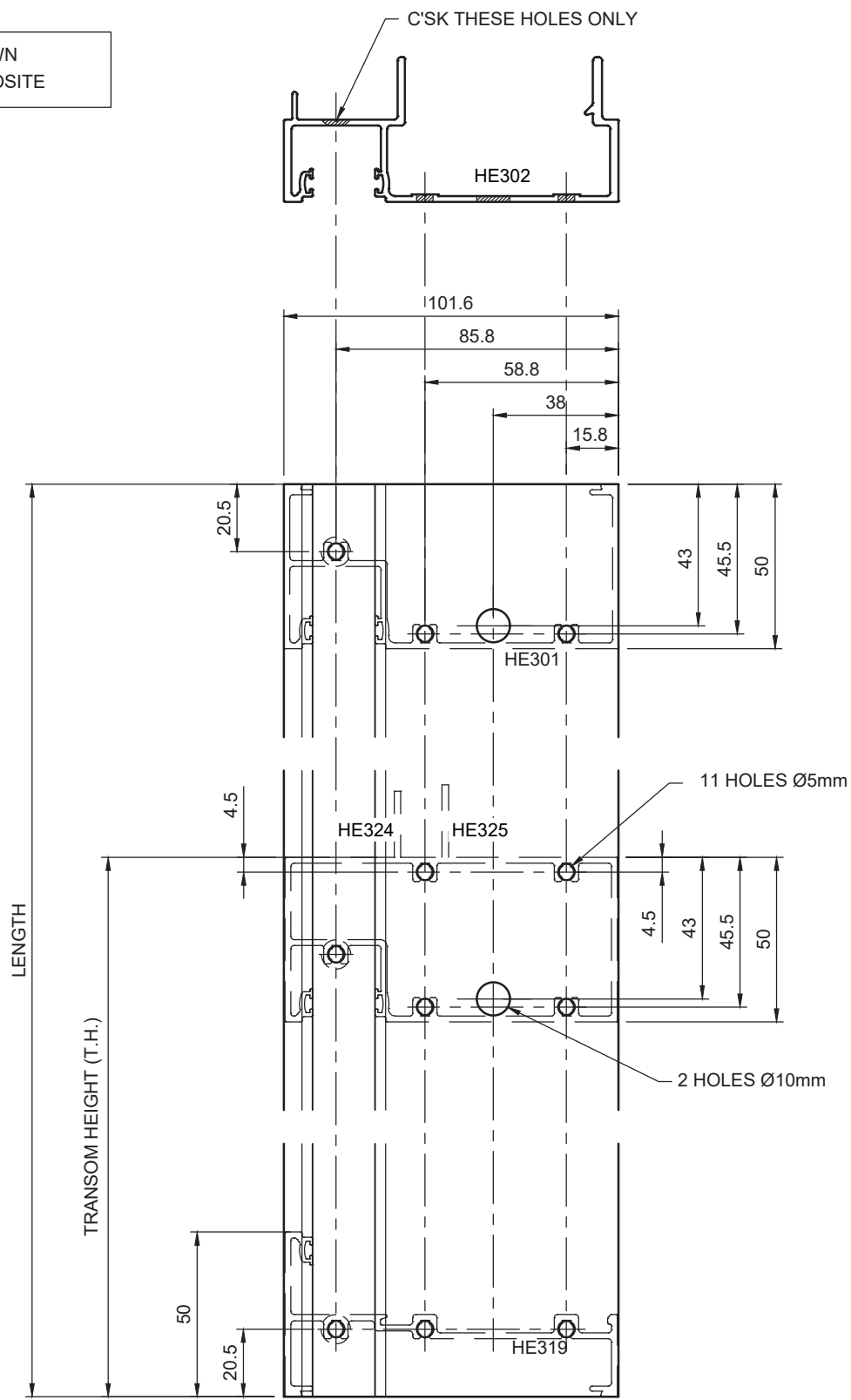
Frame Preparation - Internal Glaze with Awning and Lowlite

L.H. DRAWN
R.H. OPPOSITE



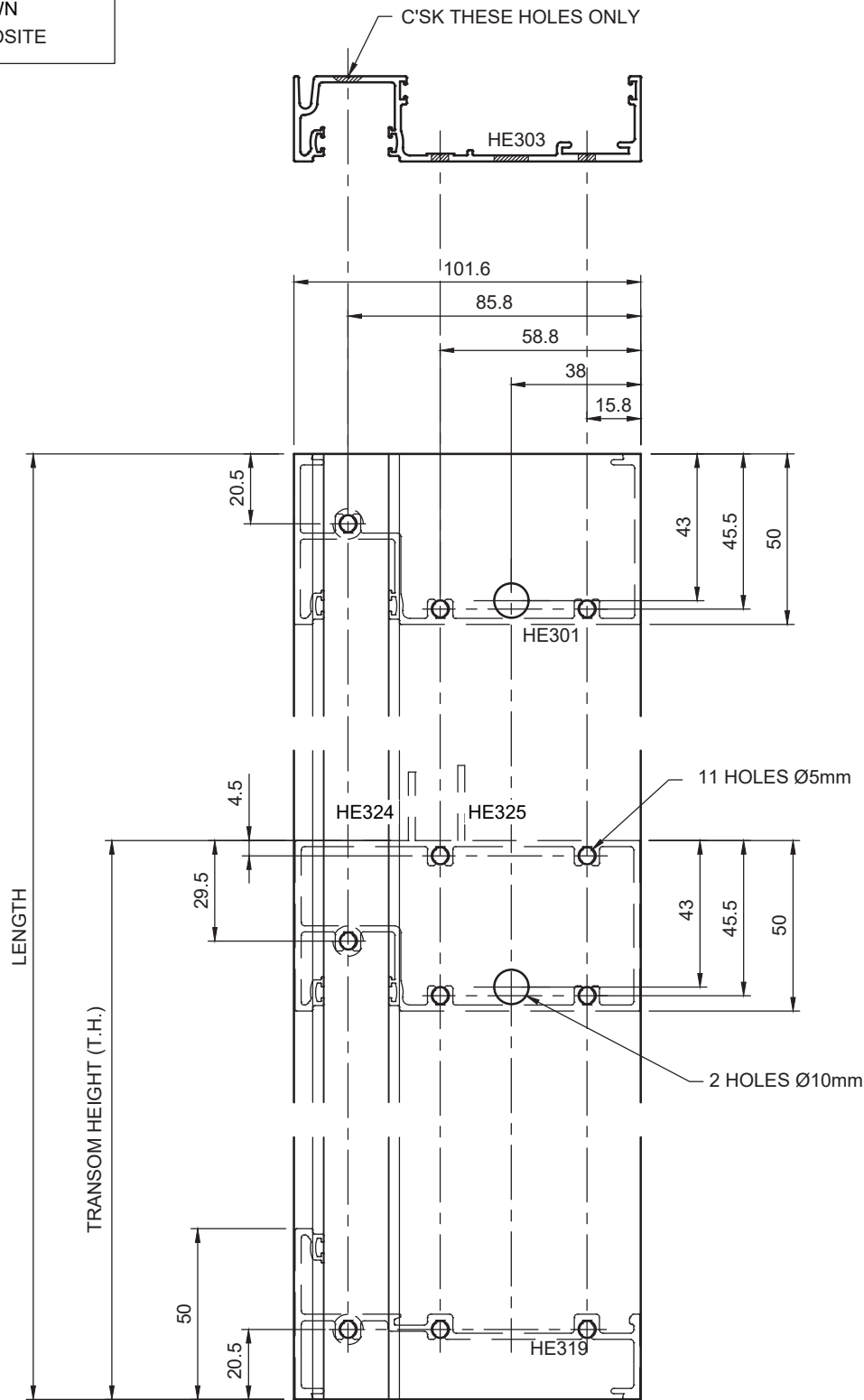
Frame Preparation - Internal Glaze with Awning and Lowlite

L.H. DRAWN
R.H. OPPOSITE



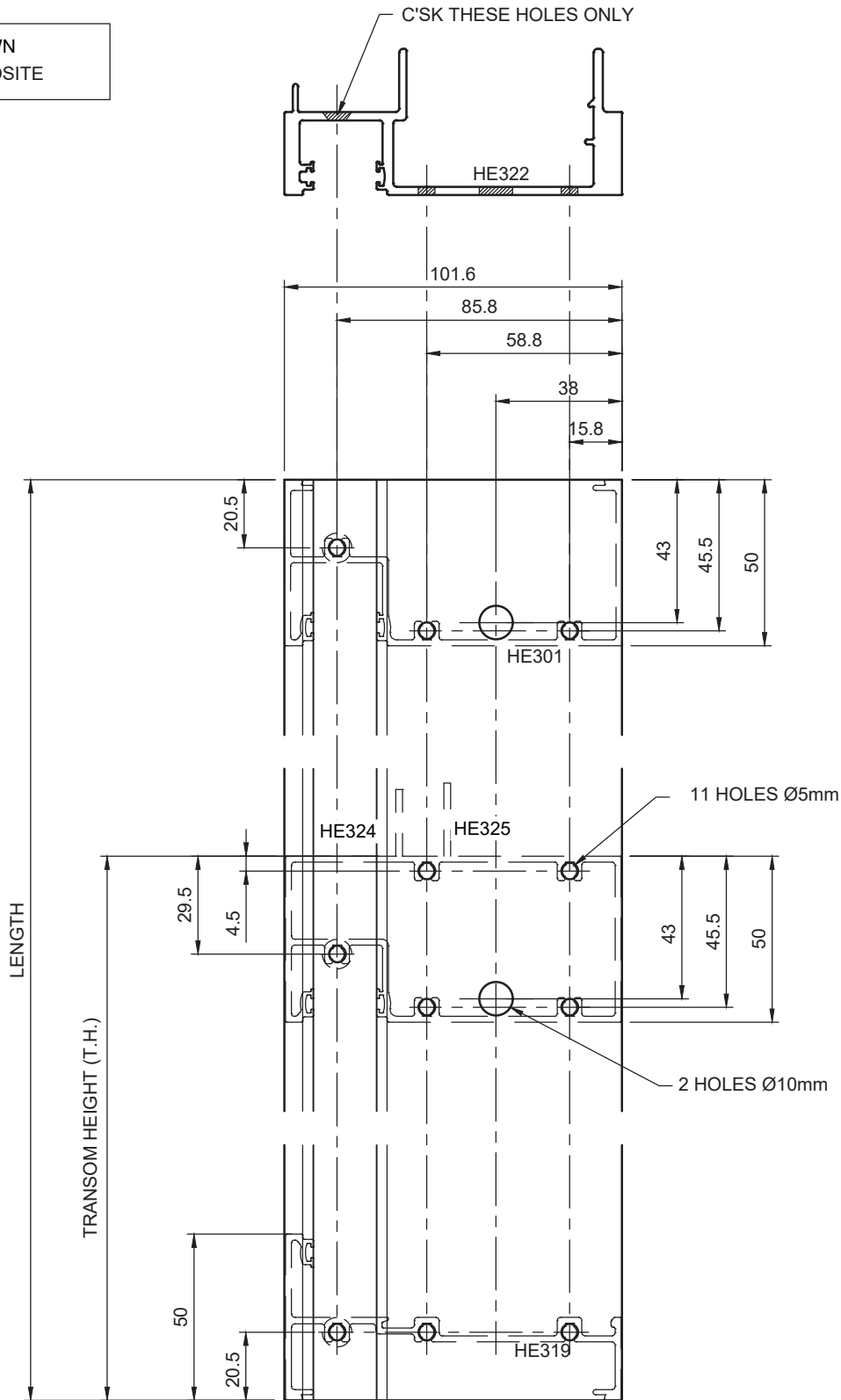
Frame Preparation - Internal Glaze with Awning and Lowlite

L.H. DRAWN
R.H. OPPOSITE



Frame Preparation - Internal Glaze with Awning and Lowlite

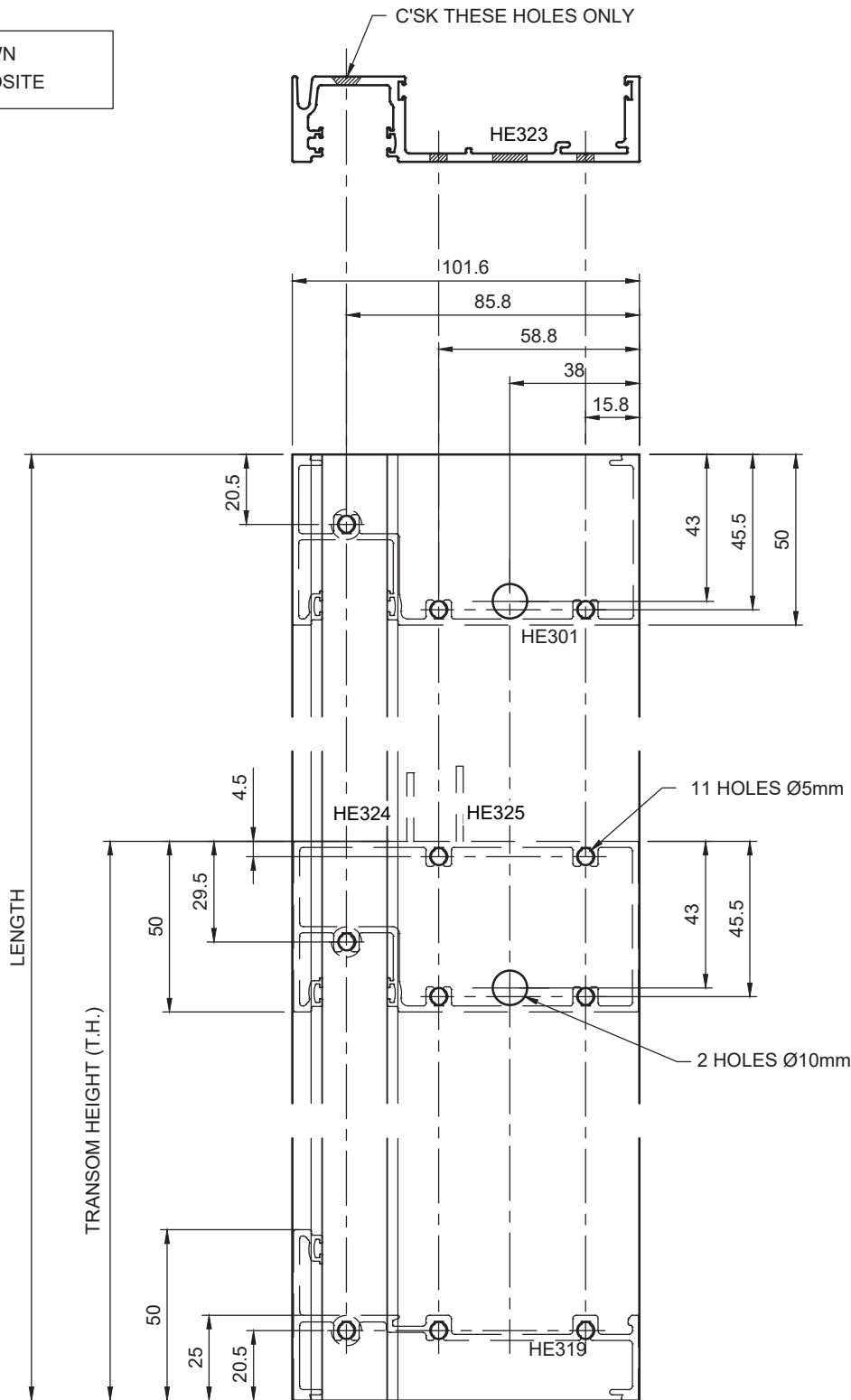
L.H. DRAWN
R.H. OPPOSITE



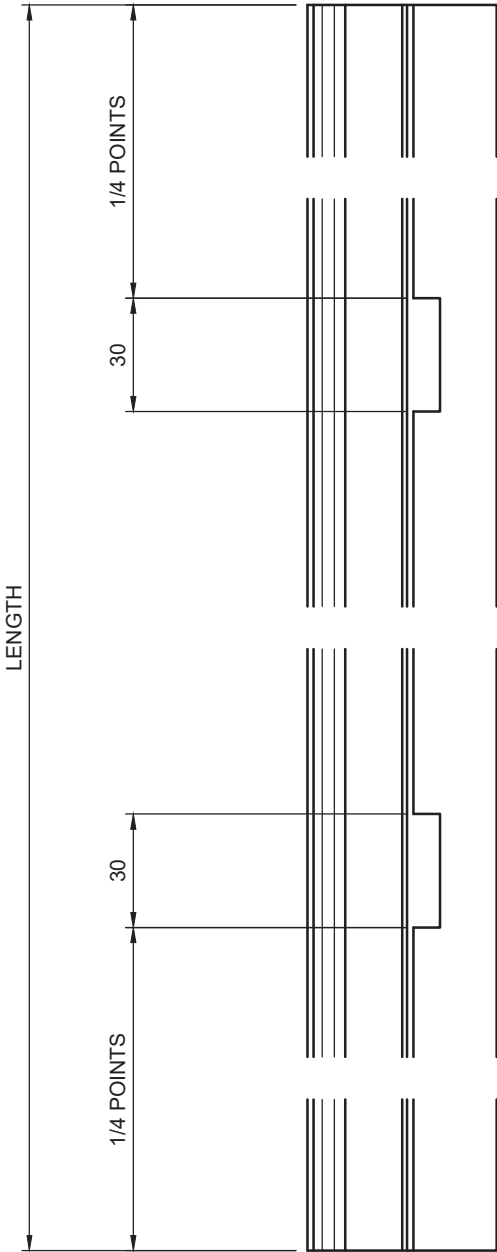
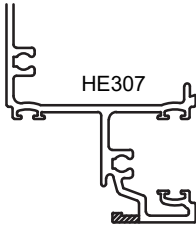
10. Manufacturing Details

Frame Preparation - Internal Glaze with Awning and Lowlite

L.H. DRAWN
R.H. OPPOSITE

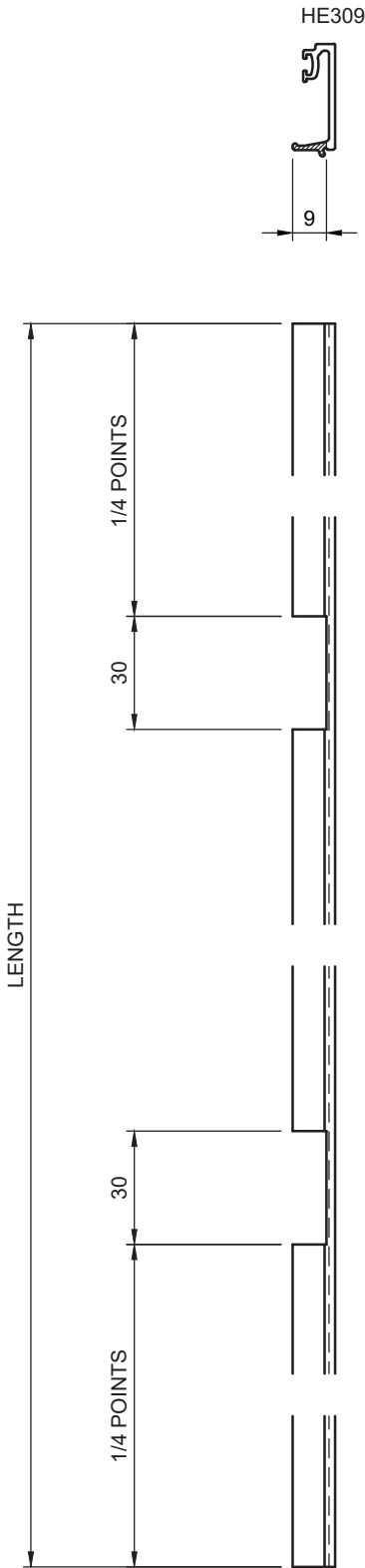


Drainage Preparation - HE307 Sill

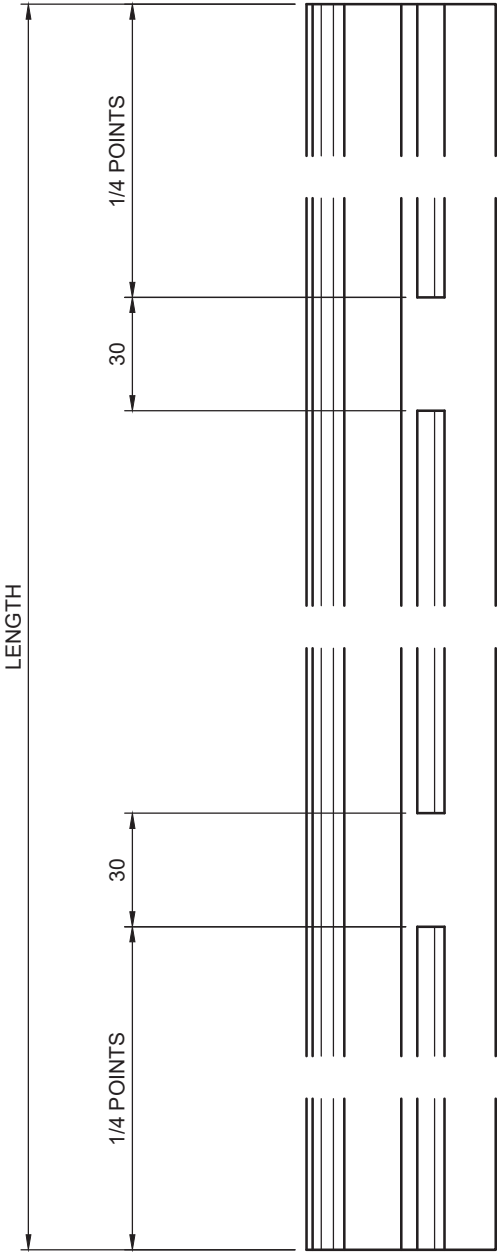
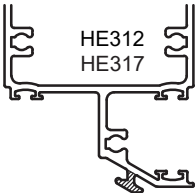


10. Manufacturing Details

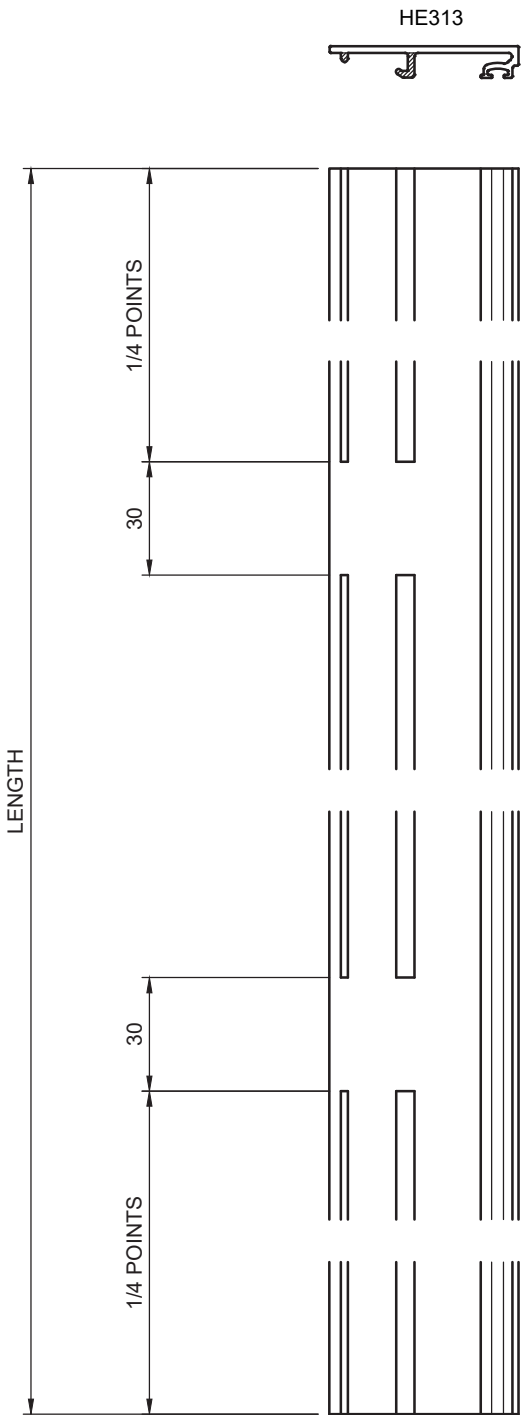
Drainage Preparation - HE309 Bead



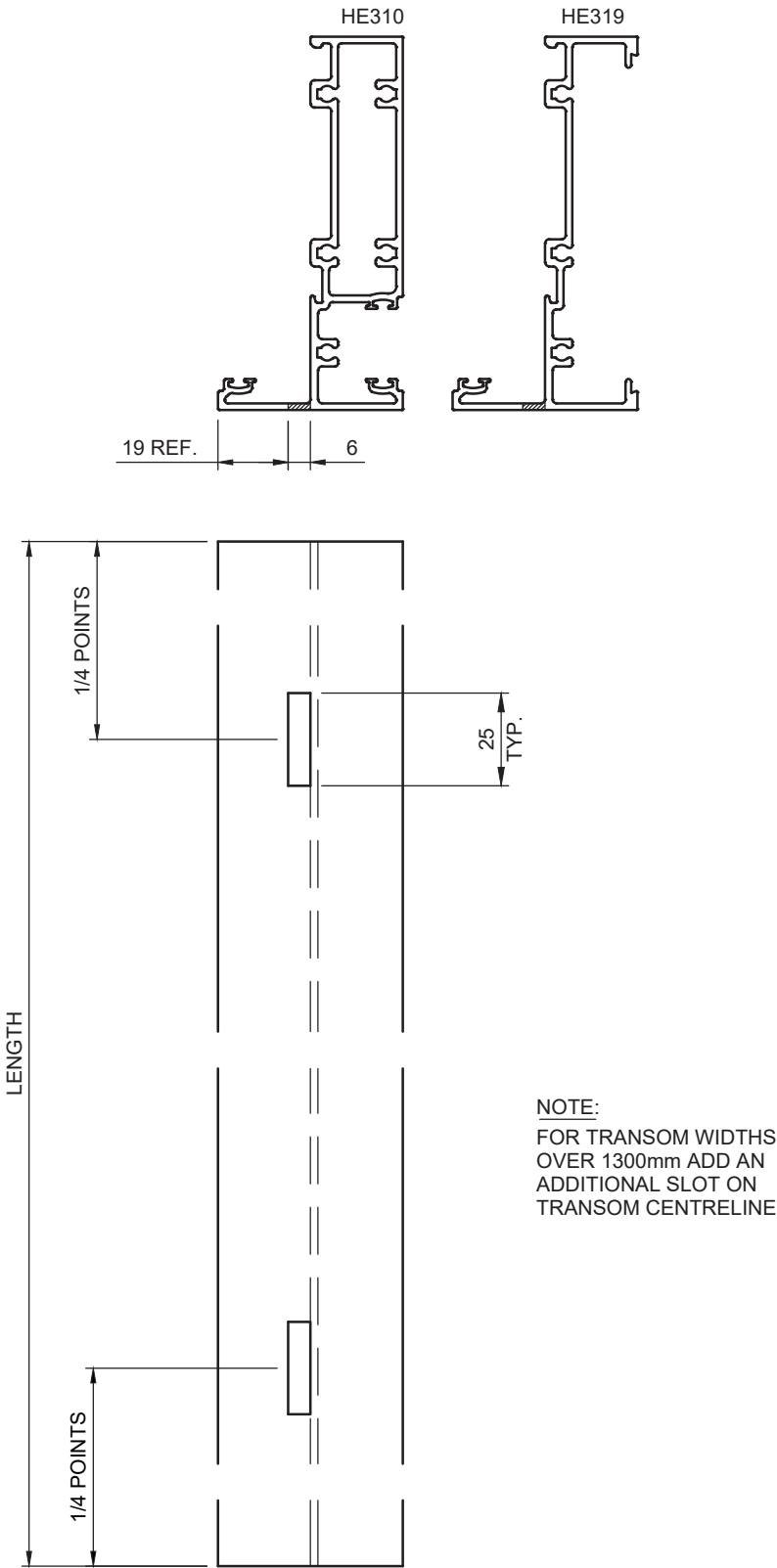
Drainage Preparation - External Glaze Transom



Drainage Preparation - External Glaze Bead

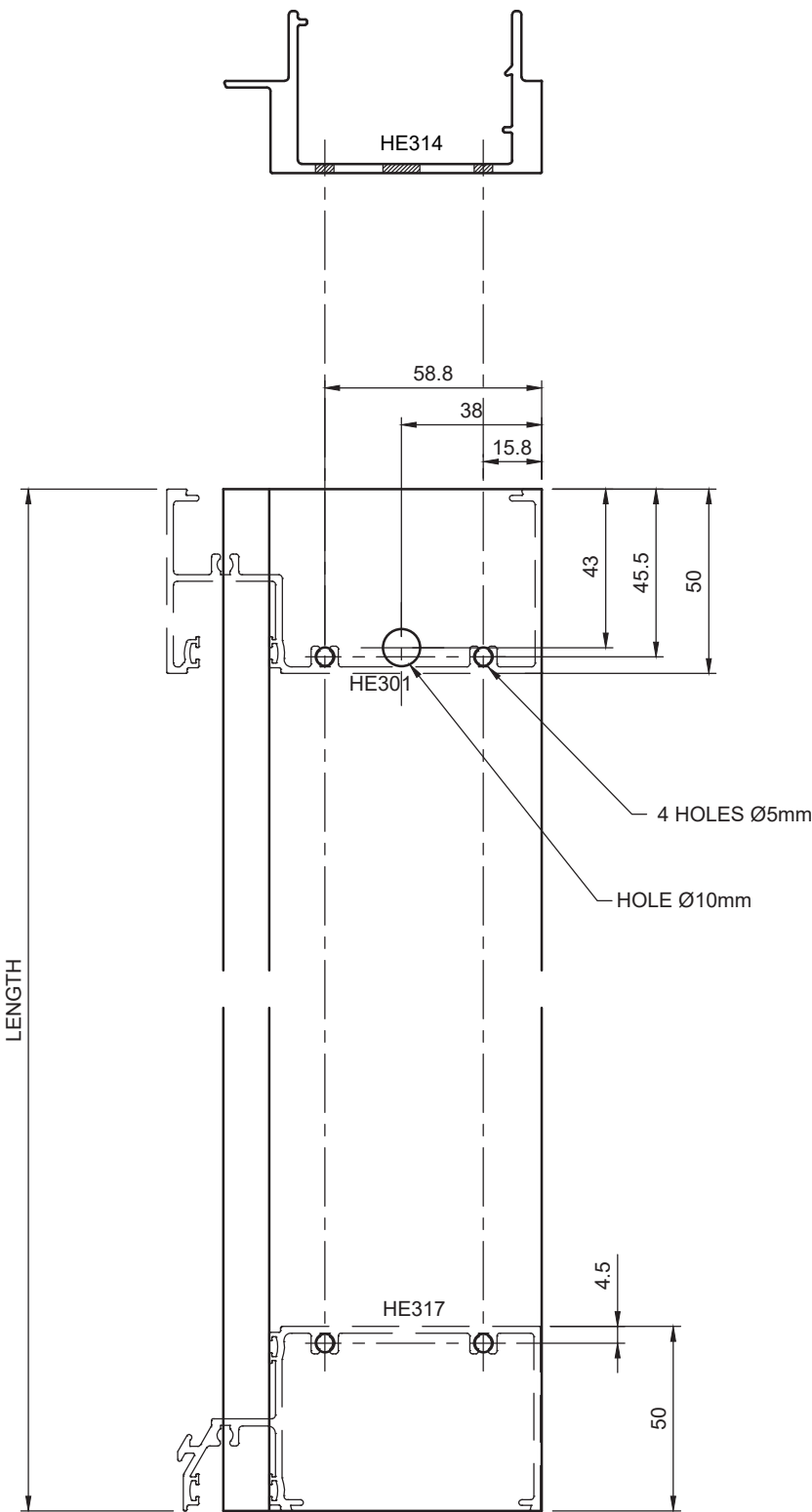


Drainage Preparation - Sill / Transom Drainage



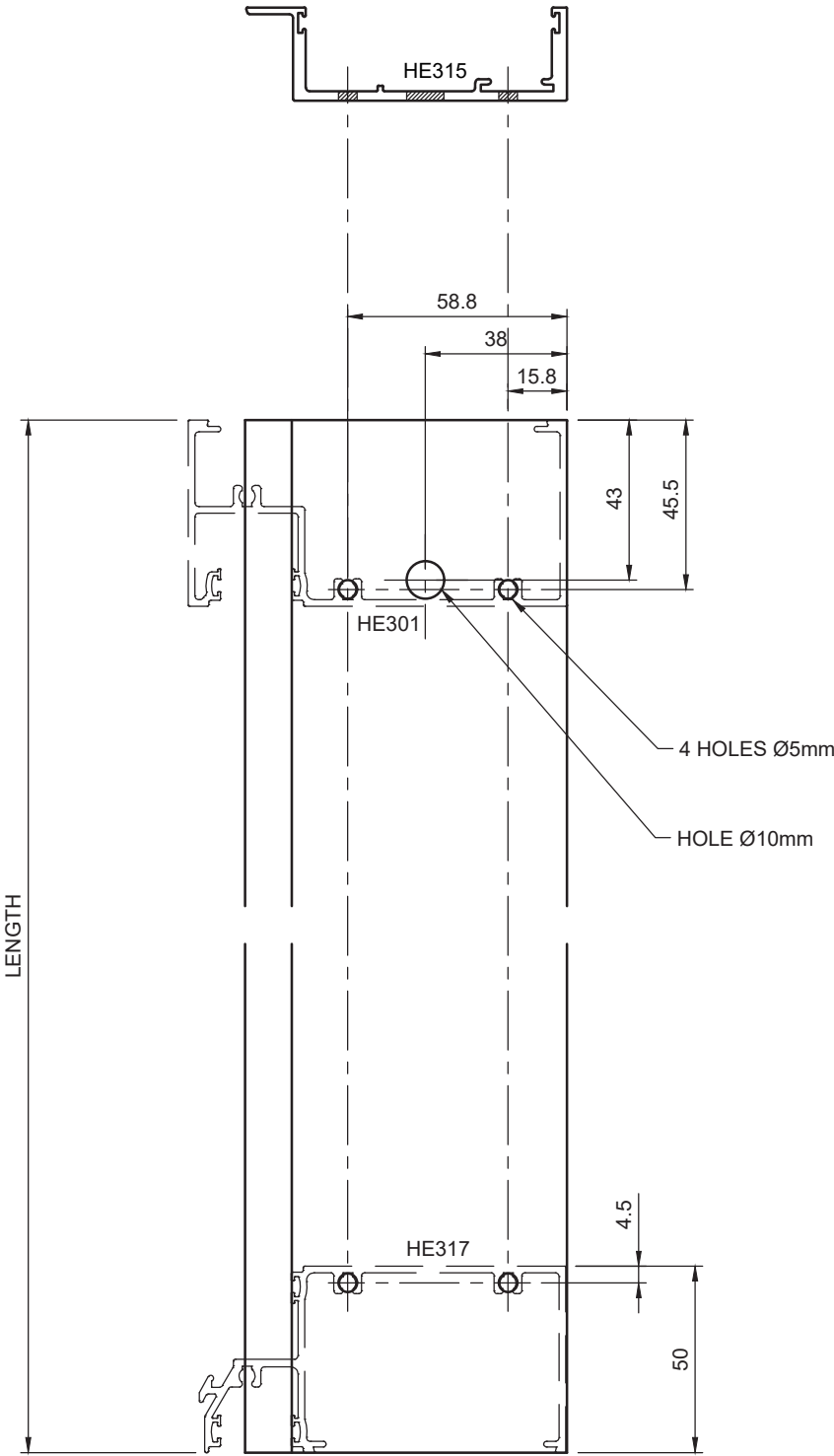
Typical SG Male Structural Mullion Preparation

L.H. DRAWN
R.H. OPPOSITE

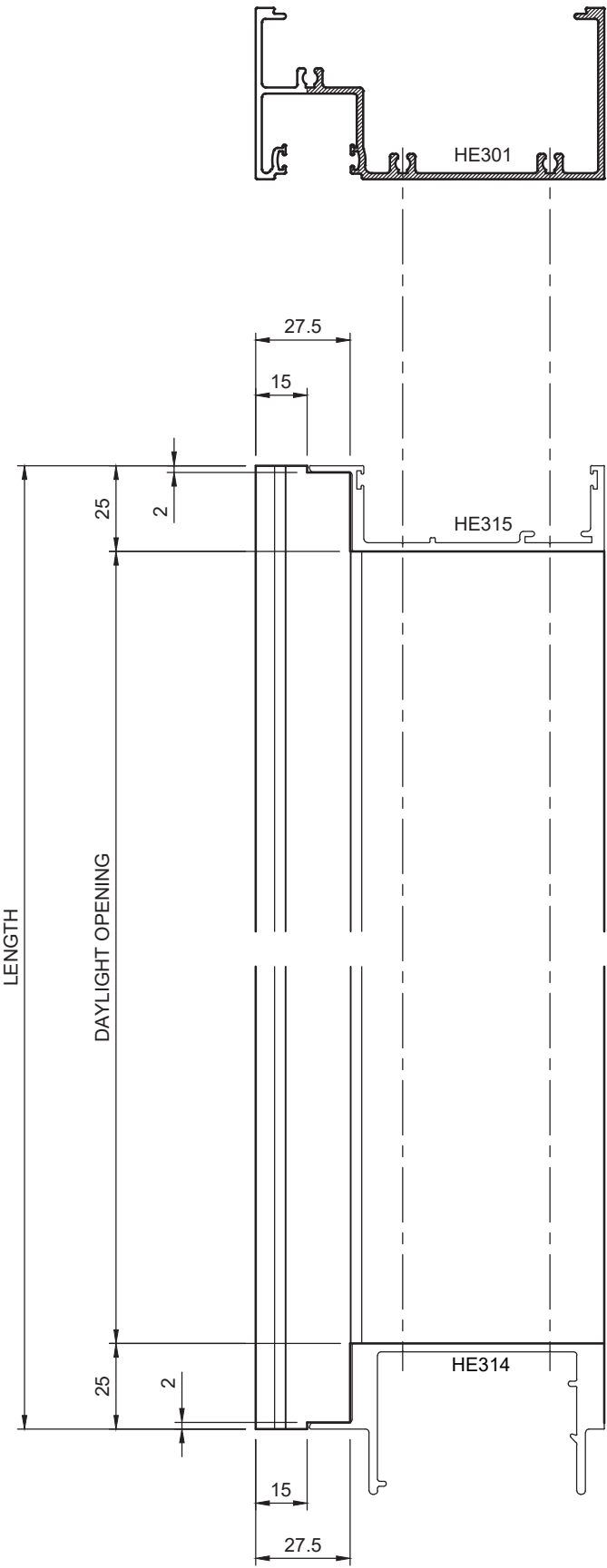


Typical SG Female Structural Mullion Preparation

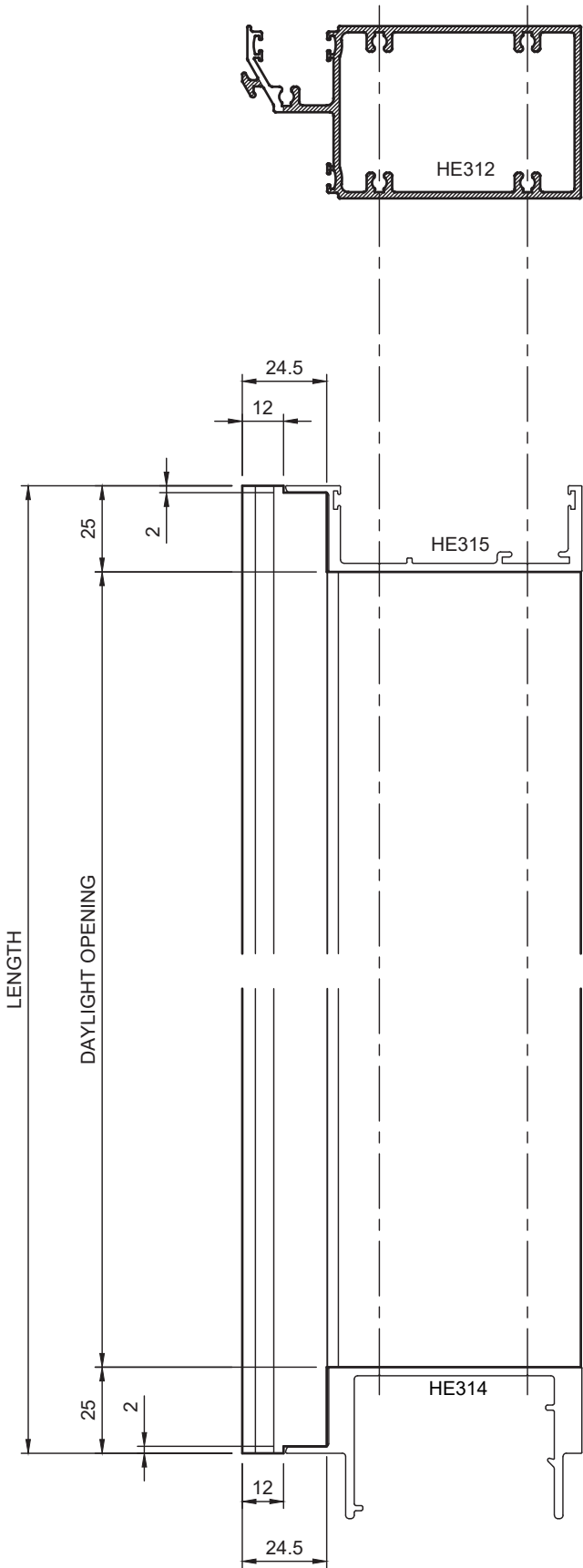
L.H. DRAWN
R.H. OPPOSITE



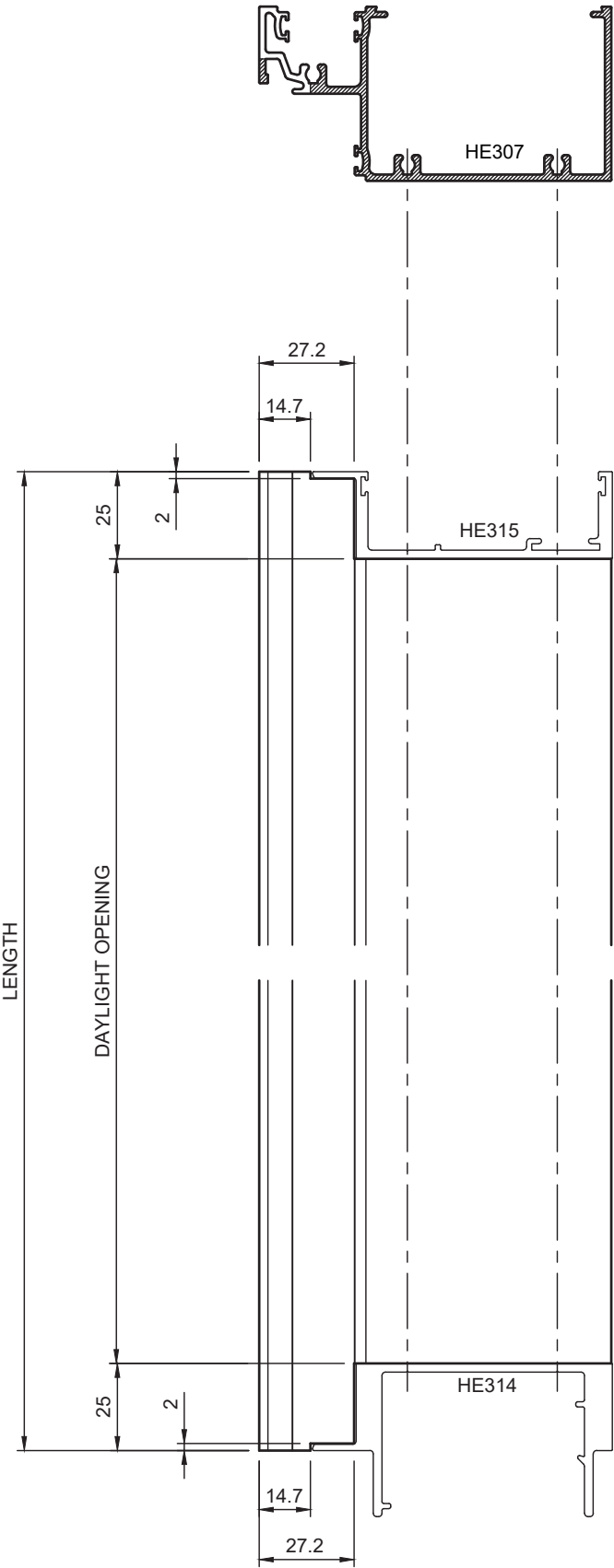
Frame Preparation - Head with Structural Mullions



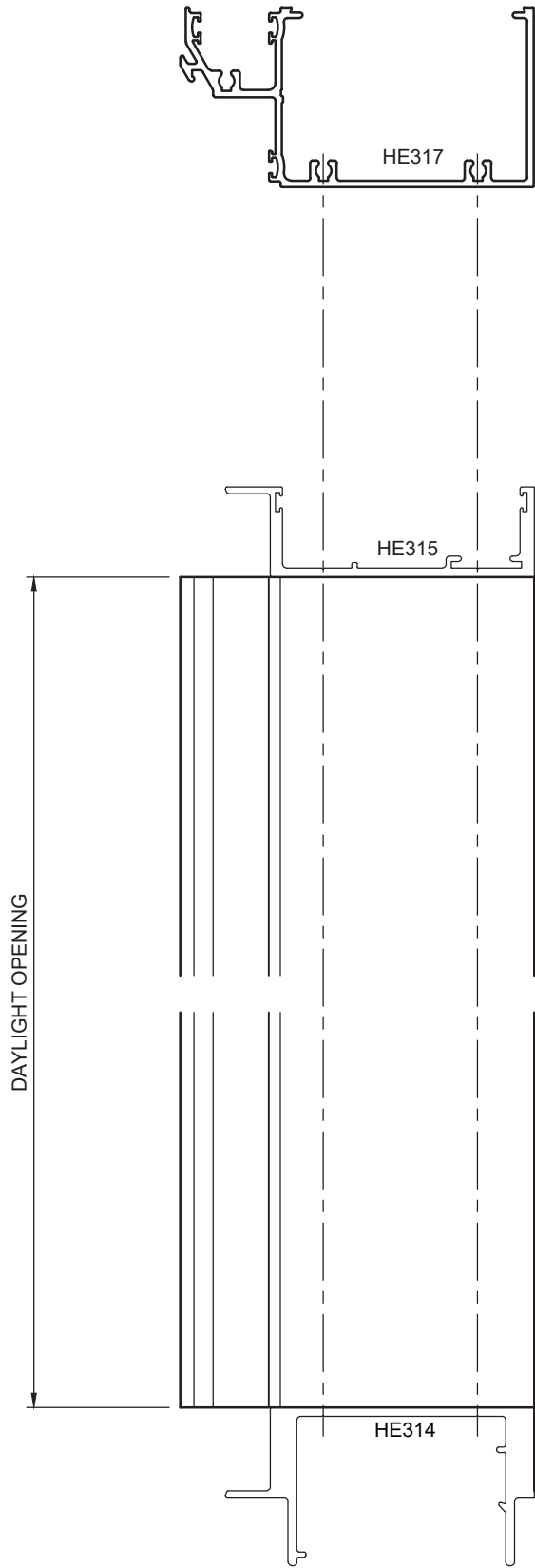
Transom Preparation with Structural Mullions



Sill Preparation with Structural Mullions



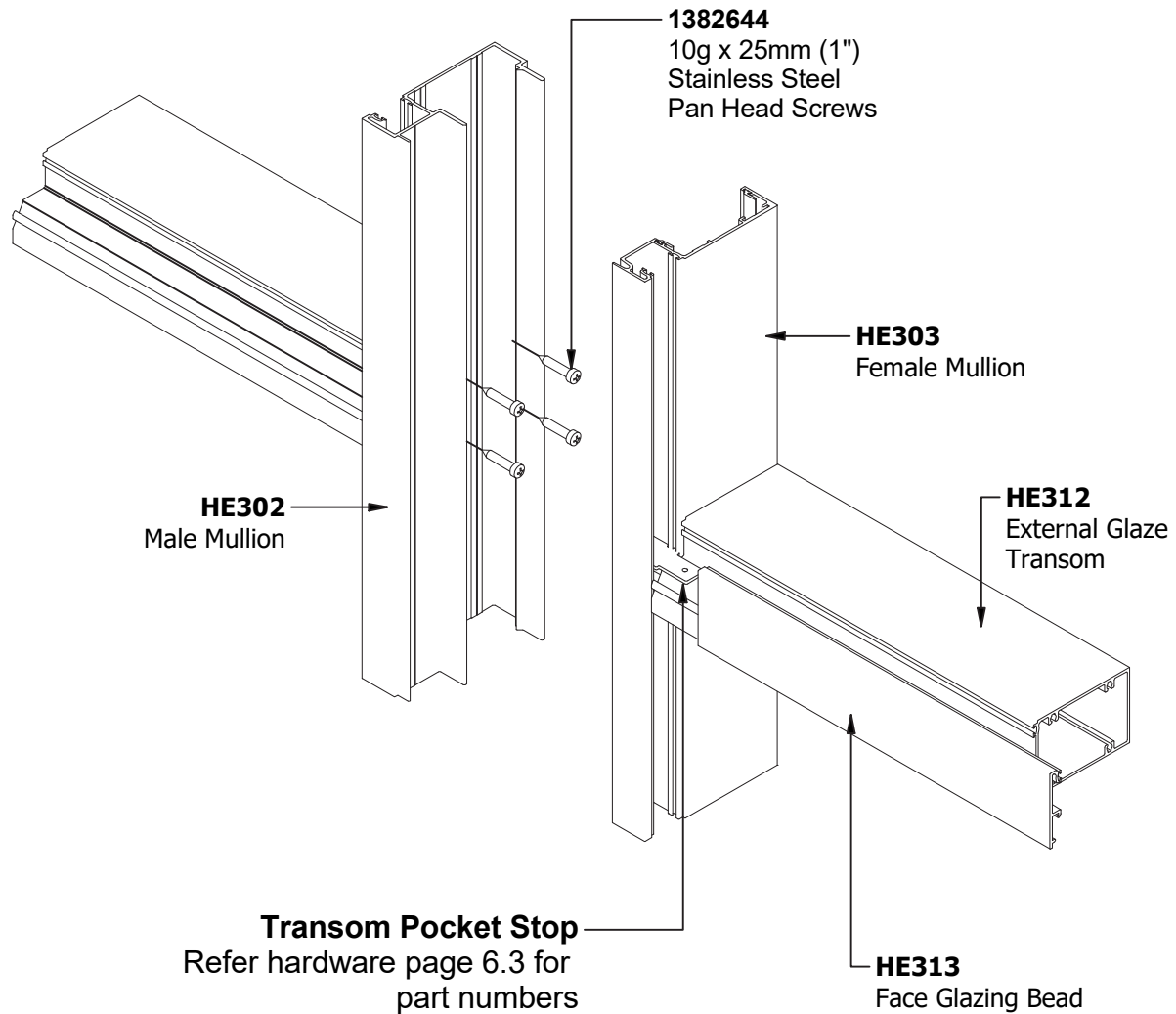
Sill Preparation with Structural Mullions





11. Assembly Details

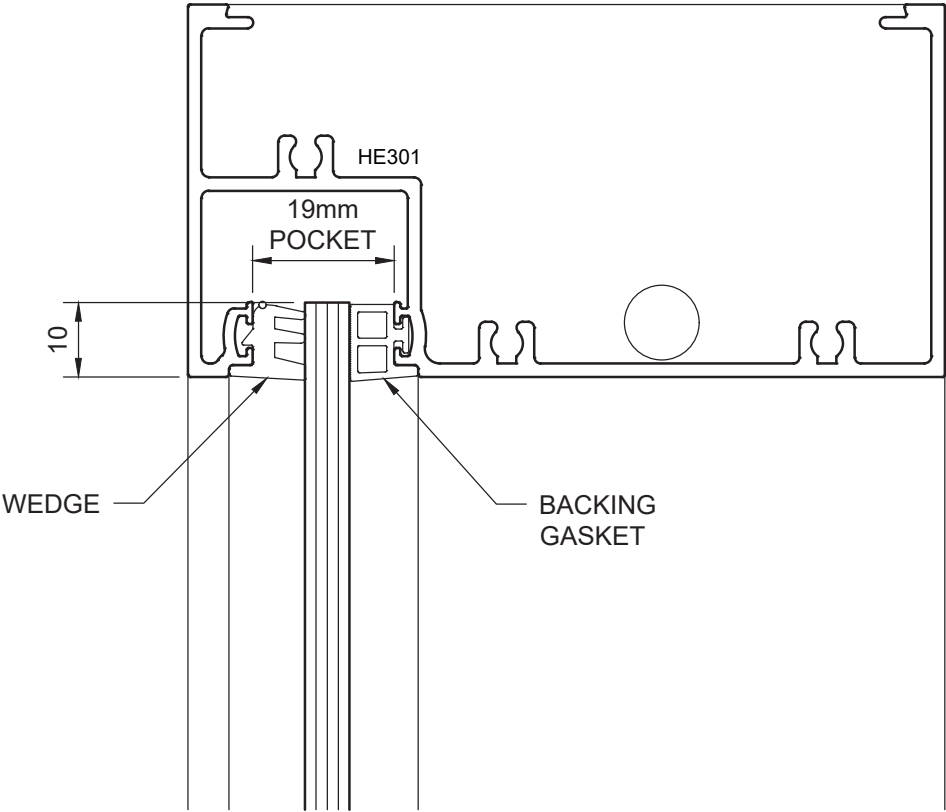
Transom Assembly and Sealing Details



Insert into the glazing pocket
and place on a bed of sealant.
Rivet or screw into position,
then completely seal the
glazing pocket and tool in
for maximum adhesion.

12. Glazing Details

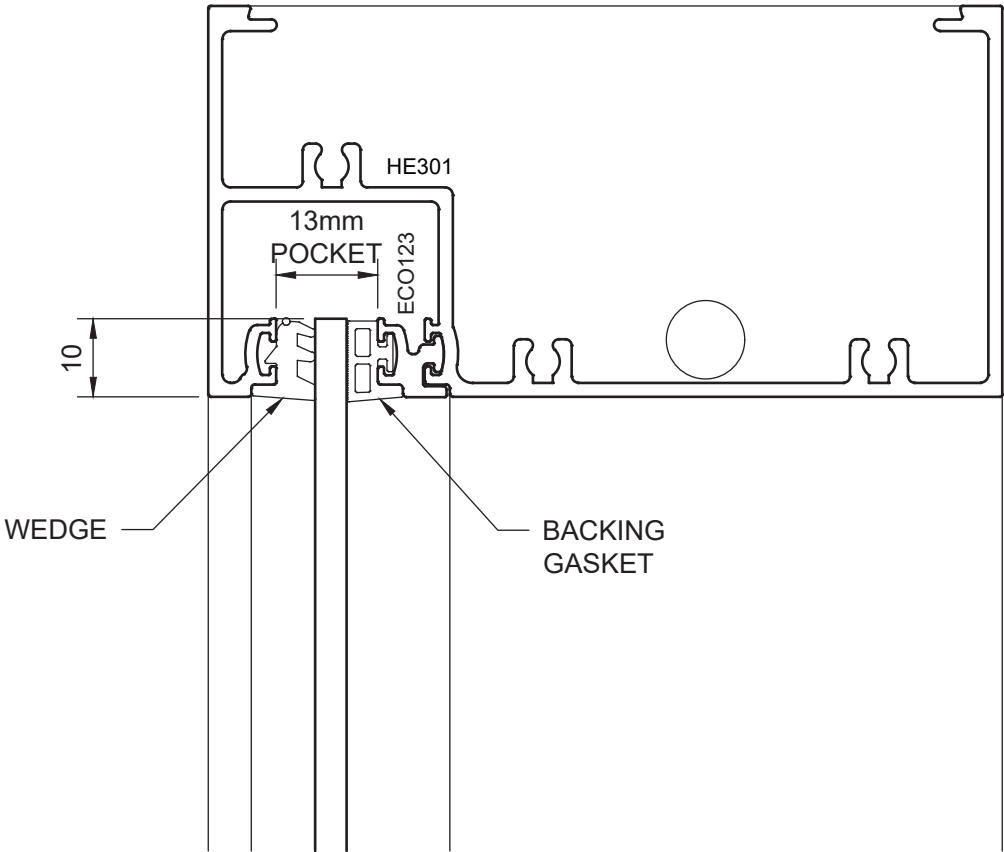
Glazing Details - Captive



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

REVERSE GLAZING WEDGE COMBINATIONS FOR INTERNAL GLAZING

Glazing Details - with ECO123 Glazing Adaptor

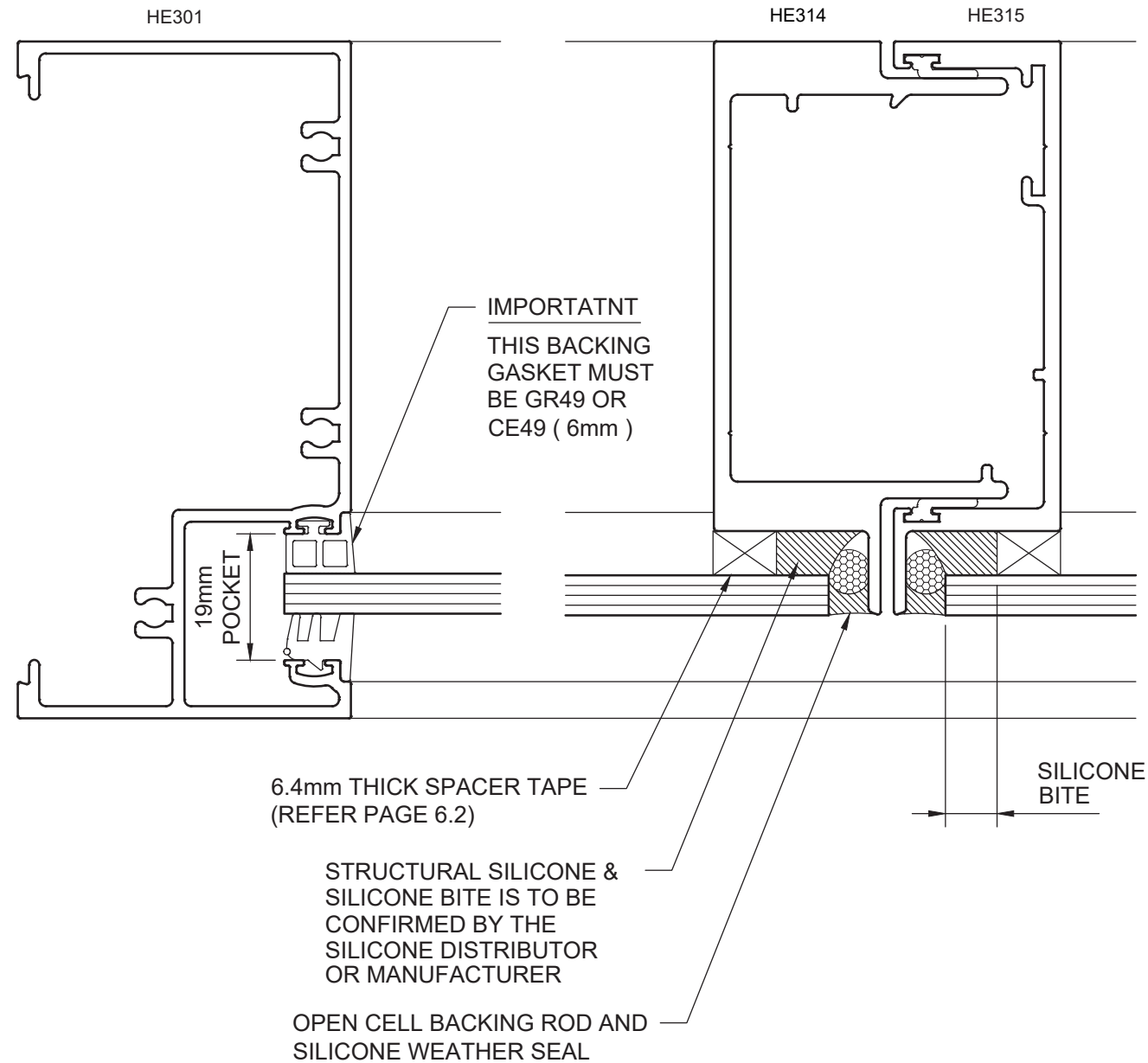


	WEDGE		PUSH IN BACKING GASKET	CO-EXTRUDED BACKING GASKET
GLASS THICKNESS	ID COLOUR	REF. (GAP)	REF. (GAP)	
4mm	BLUE	GR45 (5mm)	GR37 (4mm)	CE37 (4mm)
5mm	WHITE	GR44 (4mm)	GR37 (4mm)	CE37 (4mm)

REVERSE GLAZING WEDGE COMBINATIONS FOR INTERNAL GLAZING

Glazing Details - Structurally Glazed Mullion

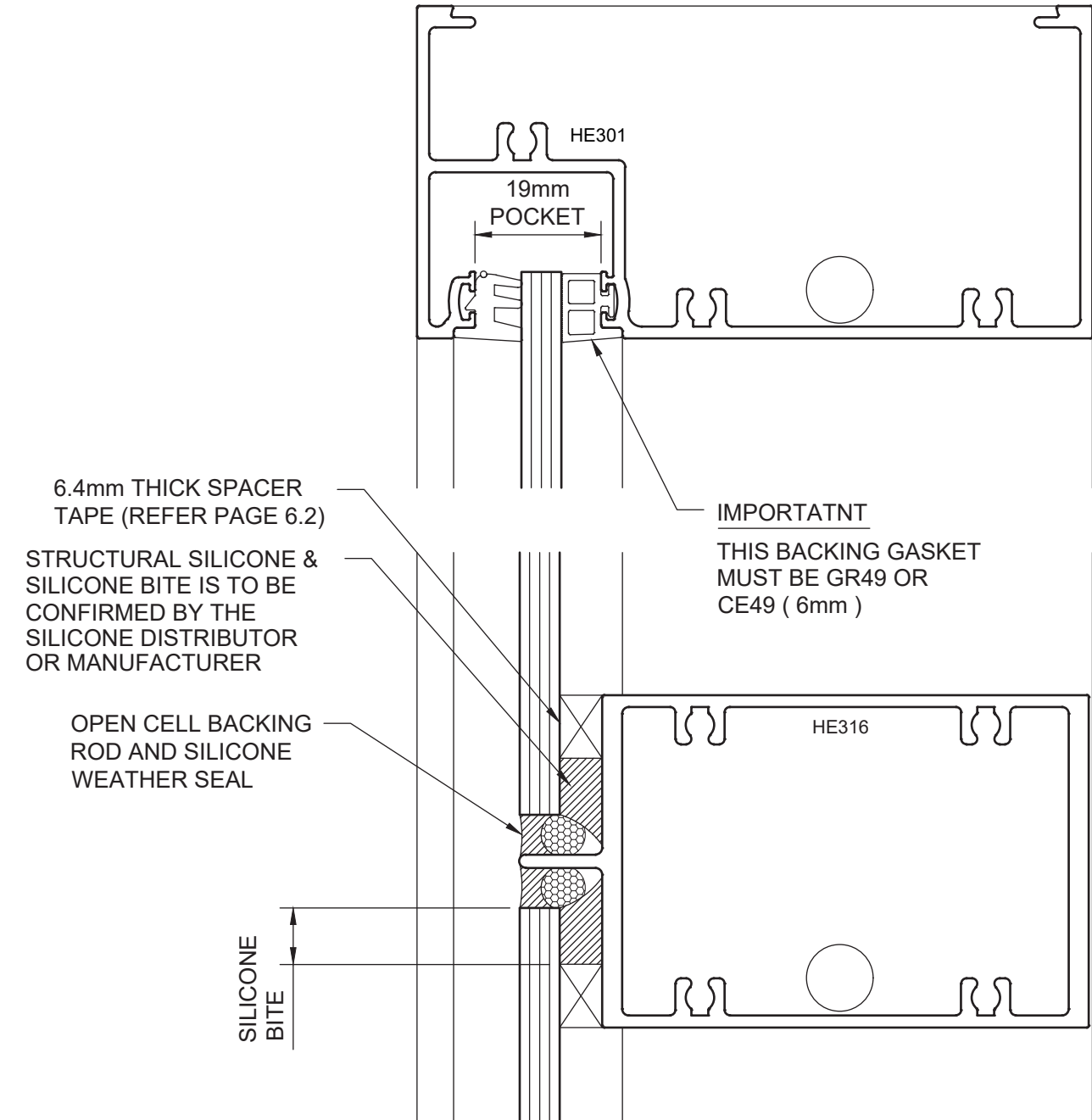
NOTE: SYSTEM NOT DESIGNED TO BE USED FOUR SIDED STRUCTURAL GLAZED.



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

12. Glazing Details

Glazing Details - Structurally Glazed Transom



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

FRAMING

Your new **Hunter Evo 101.6mm Single Flush Glazed Framing** has 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 Single Flush Glazed** frame will retain it’s good looks and resist the elements for years to come.

The **Hunter Evo 101.6mm 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 101.6mm 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 101.6mm 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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