



ecoWALL 225

Flush Glazed Framing

ecoWALL 225 Flush Glazed Framing

Technical Manual

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alspec[®]
EVERYTHING ALUMINIUM
& HARDWARE



ecoWALL 225

Flush Glazed Framing

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ecoWALL 225

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

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2. Technical Specifications

ALUMINIUM

Aluminium frames should be manufactured using Alspec's **ECOWALL 225 FLUSH GLAZED FRAMING** system.

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

GLAZING

- Glazing wedges shall be Alspec's wedges for **ECOWALL 225 FLUSH GLAZED FRAMING** to suit captive glazing.
- For window & door systems requiring a co-extruded captive gasket on the external side of the glazed pocket, Santoprene is the recommended material to be applied.

HARDWARE

- All hardware and accessories as per Alspec Technical Manual.

FINISHES

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

TESTING

Product shall have a test report to show compliance.

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) or AS4666 (Insulated Glass Units).

Fabricators of the **ECOWALL 225 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	2080	1940
	2250	S	2160	1780	1530	1370	1270
		U	3940	3230	2780	2470	2270
	2100	S	2670	2210	1920	1730	1610
		U	4550	3750	3240	2900	2680
lxx = xxx x xxx mm4	Panel Width		800	1000	1200	1400	1600

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

- STEP 1:** Locate the height (2400mm) in the Panel Height column.
- STEP 2:** Locate the width (1000mm) in the Panel Width column.
- 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).

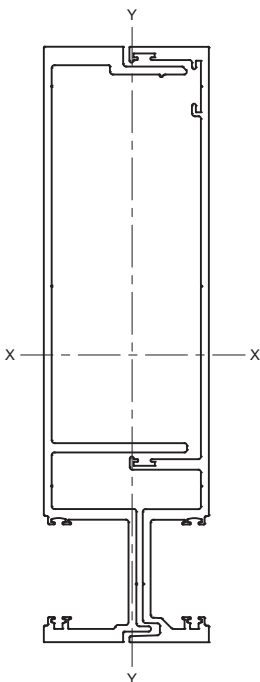
3. Loading Tables

Mullion Loading Tables

Max Stress = 110Mpa

S = Serviceability limit state I/250

U = Ultimate limit state

ECO104 / ECO105 MULLION	Panel Height	Maximum Design Pressure (Pa)								
	6300	S	1320	1110	950	840	750	680	620	580
		U	2990	2500	2150	1890	1690	1530	1400	1290
	6000	S	1530	1280	1110	970	870	790	730	670
		U	3300	2760	2370	2090	1870	1690	1550	1430
	5700	S	1790	1500	1290	1140	1020	930	850	790
		U	3660	3060	2640	2320	2080	1880	1730	1600
	5400	S	2110	1770	1530	1350	1210	1100	1010	940
		U	4080	3420	2940	2590	2320	2110	1940	1800
	5100	S	2510	2110	1820	1610	1440	1310	1210	1130
		U	4580	3840	3310	2920	2620	2380	2190	2030
	4800	S	3000	2530	2190	1940	1740	1590	1470	1370
		U	5180	4340	3750	3310	2970	2710	2490	2320
	4500	S	3000	3000	2670	2370	2130	1950	1800	1680
		U	5910	4960	4290	3790	3410	3110	2870	2670
	4200	S	3000	3000	3000	2940	2650	2430	2250	2110
		U	6800	5710	4950	4380	3940	3600	3330	3120
	3900	S	3000	3000	3000	3000	3000	3000	2870	2700
		U	7910	6650	5770	5120	4620	4240	3930	3690
	3600	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	9000	7860	6830	6070	5500	5060	4710	4440
I _{xx} = 15504 x 10 ³ mm ⁴	Panel Width		1000	1200	1400	1600	1800	2000	2200	2400

Tables are based on theoretical section properties

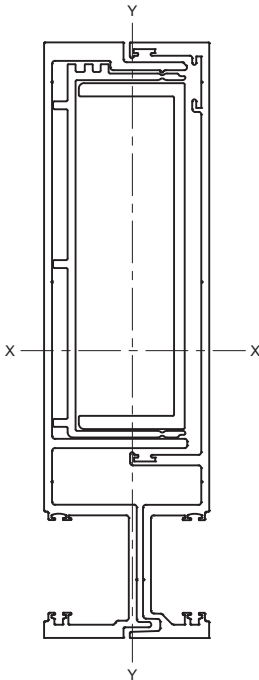
3. Loading Tables

Mullion Loading Tables

Max Stress = 110Mpa

S = Serviceability limit state l/250

U = Ultimate limit state

ECO104 / ECO105 MULLION + ECO124 / ECO125 SPLICES	Panel Height	Maximum Design Pressure (Pa)								
	6300	S	1660	1390	1200	1060	940	860	780	730
		U	3760	3140	2700	2380	2130	1920	1760	1630
	6000	S	1930	1620	1390	1230	1100	1000	910	850
		U	4150	3470	2990	2630	2350	2130	1950	1800
	5700	S	2250	1890	1630	1430	1290	1170	1070	990
		U	4600	3850	3320	2920	2610	2370	2170	2010
	5400	S	2660	2230	1920	1690	1520	1380	1270	1180
		U	5130	4300	3700	3260	2920	2650	2440	2260
	5100	S	3000	2650	2290	2020	1820	1650	1520	1420
		U	5760	4830	4170	3670	3290	2990	2750	2560
	4800	S	3000	3000	2760	2440	2190	2000	1850	1720
		U	6510	5460	4720	4170	3740	3400	3140	2920
	4500	S	3000	3000	3000	2980	2680	2450	2270	2120
		U	7430	6230	5390	4770	4290	3910	3610	3360
	4200	S	3000	3000	3000	3000	3000	3000	2830	2660
		U	8550	7180	6220	5510	4960	4530	4190	3920
	3900	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	9000	8370	7260	6440	5820	5330	4940	4640
	3600	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	8590	7640	6920	6360	5930	5580
l _{xx} = 19497 x 10 ³ mm ⁴	Panel Width		1000	1200	1400	1600	1800	2000	2200	2400

Tables are based on theoretical section properties

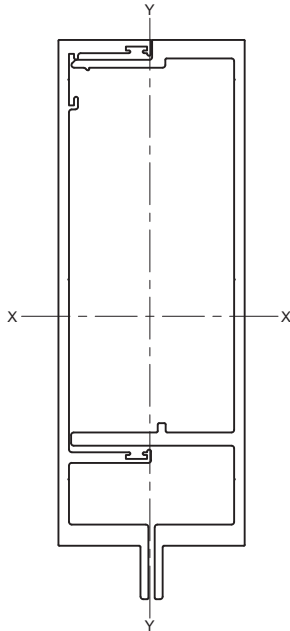
3. Loading Tables

Mullion Loading Tables

Max Stress = 110Mpa

S = Serviceability limit state I/250

U = Ultimate limit state

ECO116 / ECO117 MULLION	Panel Height	Maximum Design Pressure (Pa)								
	6300	S	1270	1060	910	800	720	650	600	550
		U	3130	2620	2250	1980	1770	1600	1470	1360
	6000	S	1470	1230	1060	930	840	760	700	640
		U	3460	2890	2490	2190	1960	1780	1630	1500
	5700	S	1720	1440	1240	1090	980	890	820	760
		U	3830	3210	2770	2430	2180	1980	1810	1680
	5400	S	2020	1700	1460	1290	1160	1050	970	900
		U	4280	3580	3090	2720	2440	2210	2030	1880
	5100	S	2410	2020	1740	1540	1380	1260	1160	1080
		U	4800	4030	3470	3060	2750	2500	2300	2130
	4800	S	2900	2430	2100	1860	1670	1520	1410	1310
		U	5430	4560	3930	3470	3120	2840	2610	2430
	4500	S	3000	2960	2560	2270	2050	1870	1730	1620
		U	6190	5200	4500	3970	3570	3260	3010	2800
	4200	S	3000	3000	3000	2820	2540	2330	2160	2020
		U	7130	5990	5190	4590	4140	3780	3500	3270
	3900	S	3000	3000	3000	3000	3000	2960	2750	2590
		U	8290	6980	6050	5370	4850	4440	4120	3870
	3600	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	9000	8240	7160	6370	5770	5300	4940	4650
I _{xx} = 14873 x 10 ³ mm ⁴	Panel Width		1000	1200	1400	1600	1800	2000	2200	2400

Tables are based on theoretical section properties

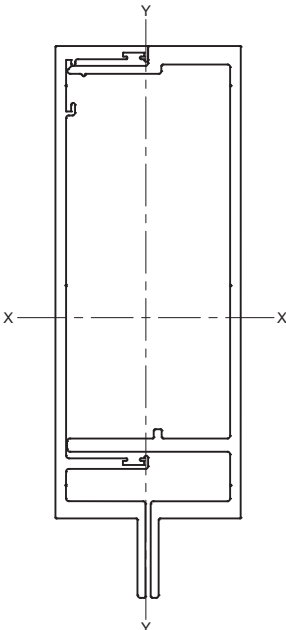
3. Loading Tables

Mullion Loading Tables

Max Stress = 110Mpa

S = Serviceability limit state I/250

U = Ultimate limit state

ECO127 / ECO128 MULLION	Panel Height	Maximum Design Pressure (Pa)							
	6300	S	1140	950	820	720	640	580	530
		U	2940	2460	2120	1860	1660	1510	1380
	6000	S	1320	1100	950	840	750	680	620
		U	3240	2710	2340	2060	1840	1670	1530
	5700	S	1540	1290	1110	980	880	800	730
		U	3600	3010	2600	2280	2040	1850	1700
	5400	S	1810	1520	1310	1160	1040	940	870
		U	4020	3360	2900	2550	2290	2080	1910
	5100	S	2160	1810	1560	1380	1240	1130	1040
		U	4510	3780	3260	2870	2580	2340	2150
	4800	S	2590	2180	1880	1660	1500	1360	1260
		U	5100	4280	3690	3260	2930	2660	2450
	4500	S	3000	2650	2300	2030	1830	1670	1550
		U	5810	4880	4220	3730	3350	3060	2820
	4200	S	3000	3000	2840	2520	2280	2090	1930
		U	6690	5620	4870	4310	3880	3550	3280
	3900	S	3000	3000	3000	3000	2880	2650	2460
		U	7790	6550	5680	5040	4550	4170	3870
	3600	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	7730	6720	5980	5410	4980	4640
lxx = 13235 x 10 ³ mm ⁴	Panel Width		1000	1200	1400	1600	1800	2000	2200
									2400

Tables are based on theoretical section properties

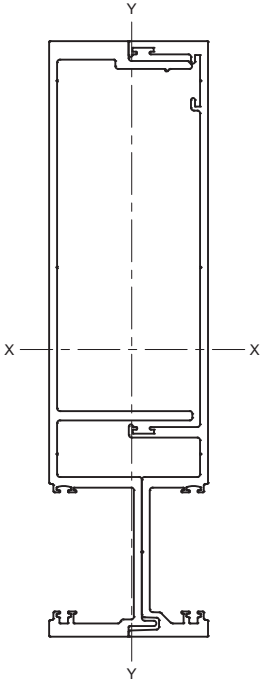
3. Loading Tables

Mullion Loading Tables

Max Stress = 110Mpa

S = Serviceability limit state l/250

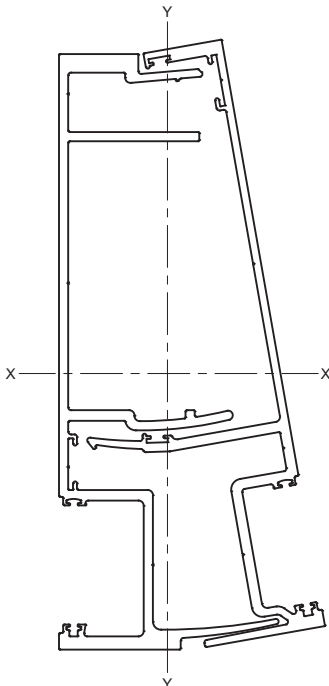
U = Ultimate limit state

ECO504 / ECO505 MULLION	Panel Height	Maximum Design Pressure (Pa)							
		S	U	S	U	S	U	S	U
	6300	1300	2910	1080	2430	930	2090	820	1840
		670	1490	610	1360	560	1260		
	6000	1500	3210	1260	2680	1080	2030	950	1820
		780	1650	710	1510	660	1400		
	5700	1760	3560	1470	2980	1270	2260	1120	2020
		910	1830	840	1680	770	1560		
	5400	2070	3970	1730	3320	1500	2530	1320	2260
		1080	2050	990	1890	920	1750		
	5100	2460	4460	2060	3740	1780	2840	1570	2550
		1290	2320	1190	2130	1100	1980		
	4800	2960	5040	2480	4230	2150	3220	1900	2890
		1560	2630	1440	2430	1340	2260		
	4500	3000	5750	3000	4830	2620	3690	2320	3320
		1910	3020	1770	2790	1650	2600		
	4200	3000	6620	3000	5560	3000	4260	2880	3840
		2380	3510	2210	3240	2070	3030		
	3900	3000	7700	3000	6480	3000	4980	3000	4500
		3000	4120	2810	3830	2640	3590		
	3600	3000	9000	3000	7650	3000	5910	3000	5350
		3000	4590	3000	4320				
lxx = 15092 x 10³ mm⁴	Panel Width	1000	1200	1400	1600	1800	2000	2200	2400

Tables are based on theoretical section properties

Mullion Loading Tables

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

ECO511 / ECO510 MULLION		Panel Height	Maximum Design Pressure (Pa)							
	6300	S	1690	1410	1220	1070	960	870	800	740
		U	3740	3130	2690	2370	2120	1920	1760	1620
	6000	S	1960	1640	1410	1240	1110	1010	930	860
		U	4130	3460	2980	2620	2340	2120	1950	1800
	5700	S	2290	1920	1650	1460	1300	1180	1090	1010
		U	4580	3840	3310	2910	2600	2360	2170	2010
	5400	S	2690	2260	1950	1720	1540	1400	1290	1200
		U	5110	4280	3690	3250	2910	2650	2430	2250
	5100	S	3000	2690	2320	2050	1840	1680	1540	1440
		U	5740	4810	4150	3660	3280	2980	2740	2550
	4800	S	3000	3000	2800	2470	2220	2030	1870	1740
		U	6490	5440	4700	4150	3730	3390	3120	2910
	4500	S	3000	3000	3000	3000	2720	2490	2300	2150
		U	7400	6210	5370	4750	4270	3890	3590	3350
	4200	S	3000	3000	3000	3000	3000	3000	2870	2690
		U	8520	7160	6200	5490	4940	4520	4180	3910
	3900	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	9000	8340	7230	6420	5800	5310	4930	4620
	3600	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	8560	7610	6890	6340	5910	5560
Ixx = 19633 x 10³ mm⁴		Panel Width	1000	1200	1400	1600	1800	2000	2200	2400

Tables are based on theoretical section properties

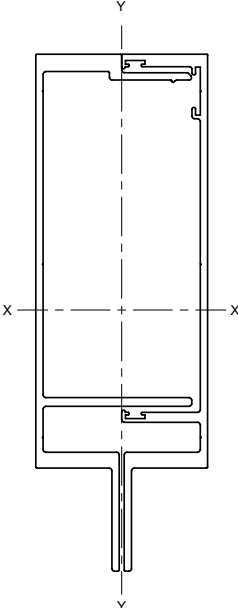
3. Loading Tables

Mullion Loading Tables

Max Stress = 110Mpa

S = Serviceability limit state I/250

U = Ultimate limit state

ECO516 / ECO517 MULLION	Panel Height	Maximum Design Pressure (Pa)								
	6300	S	980	820	700	620	550	500	460	420
		U	2220	1850	1600	1400	1250	1140	1040	960
	6000	S	1130	950	820	720	640	580	540	500
		U	2450	2050	1760	1550	1390	1260	1150	1060
	5700	S	1320	1110	960	840	750	690	630	580
		U	2720	2270	1960	1720	1540	1400	1280	1190
	5400	S	1560	1310	1130	1000	890	810	750	690
		U	3030	2540	2190	1930	1730	1570	1440	1330
	5100	S	1860	1560	1350	1190	1070	970	890	830
		U	3400	2850	2460	2170	1940	1770	1630	1510
	4800	S	2230	1870	1620	1430	1290	1180	1080	1010
		U	3850	3230	2790	2460	2210	2010	1850	1720
	4500	S	2720	2280	1980	1750	1580	1440	1330	1250
		U	4390	3680	3180	2810	2530	2310	2130	1980
	4200	S	3000	2820	2450	2170	1960	1800	1670	1560
		U	5050	4240	3670	3250	2930	2680	2480	2310
	3900	S	3000	3000	3000	2740	2480	2280	2120	2000
		U	5880	4940	4290	3800	3440	3150	2920	2740
	3600	S	3000	3000	3000	3000	3000	2960	2760	2610
		U	6920	5840	5070	4510	4090	3760	3500	3300
Ixx = 11391 x 10 ³ mm ⁴	Panel Width		1000	1200	1400	1600	1800	2000	2200	2400

Tables are based on theoretical section properties

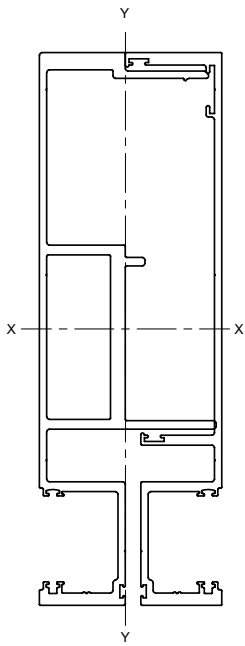
3. Loading Tables

Mullion Loading Tables

Max Stress = 110Mpa

S = Serviceability limit state l/250

U = Ultimate limit state

ECO137 / ECO138 MULLION	Panel Height	Maximum Design Pressure (Pa)								
	6300	S	1530	1280	1100	970	870	790	720	670
		U	3270	2740	2350	2070	1850	1680	1530	1420
	6000	S	1780	1490	1280	1130	1010	920	840	780
		U	3610	3020	2600	2290	2050	1850	1700	1570
	5700	S	2080	1740	1500	1320	1180	1080	990	920
		U	4000	3350	2890	2540	2280	2060	1890	1750
	5400	S	2450	2050	1770	1560	1400	1270	1170	1090
		U	4470	3740	3230	2840	2550	2310	2120	1970
	5100	S	2910	2440	2110	1860	1670	1520	1400	1300
		U	5020	4200	3630	3200	2870	2610	2400	2220
	4800	S	3000	2940	2540	2240	2020	1840	1700	1580
		U	5670	4760	4110	3630	3260	2960	2730	2540
	4500	S	3000	3000	3000	2740	2470	2260	2090	1950
		U	6470	5430	4690	4150	3730	3400	3140	2930
	4200	S	3000	3000	3000	3000	3000	2810	2610	2440
		U	7440	6260	5420	4800	4320	3950	3650	3410
	3900	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	8660	7290	6320	5610	5060	4640	4310	4040
	3600	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	9000	8600	7480	6650	6020	5540	5160	4860
I _{xx} =17,824 x 10 ³ mm ⁴	Panel Width		1000	1200	1400	1600	1800	2000	2200	2400

Tables are based on theoretical section properties

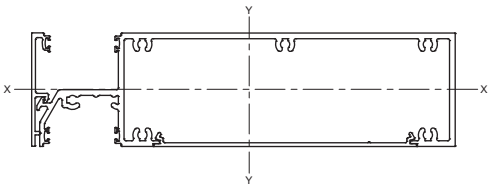
3. Loading Tables

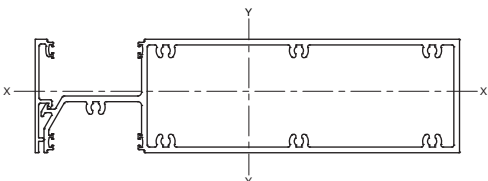
Transom Loading Tables

Max Stress = 110Mpa

S = Serviceability limit state I/250

U = Ultimate limit state

ECO101 + ECO102 + AS605 TRANSOM	Transom Centres	Maximum Design Loads (Pa)							
	2700	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	7190	5960	4770	3930
	2400	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	7570	6000	4910	4100
	2100	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	7740	6280	5210	4410
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	8280	6820	5730	4890
	1500	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	7740	6560	5630
	1200	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	7900	6820
	Max Kg		530	380	290	220	175	140	115
$I_{xx} = 8870 \times 10^3 \text{ mm}^4$ $I_{yy} = 675 \times 10^3 \text{ mm}^4$	Transom Length		1800	2000	2200	2400	2600	2800	3000

ECO102 + ECO103 TRANSOM	Transom Centres	Maximum Design Loads (Pa)							
	2700	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	7370	6000	4850	4030
	2400	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	7760	6150	5030	4200
	2100	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	7930	6430	5340	4520
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	8490	6990	5870	5010
	1500	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	7930	6720	5770
	1200	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	8090	6990
	Max Kg		350	350	350	350	280	230	180
$I_{xx} = 9091 \times 10^3 \text{ mm}^4$ $I_{yy} = 1104 \times 10^3 \text{ mm}^4$	Transom Length		1800	2000	2200	2400	2600	2800	3000

Maximum glass weights have been determined to limit deflection to 5mm, using setting block locations at 1/8 points, capped at 250kg

Tables are based on theoretical section properties

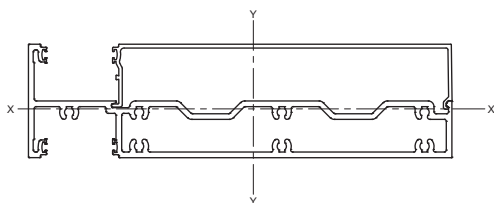
3. Loading Tables

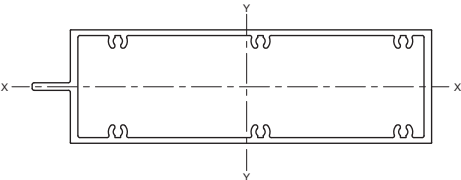
Transom Loading Tables

Max Stress = 110Mpa

S = Serviceability limit state I/250

U = Ultimate limit state

ECO119 + ECO120 TRANSOM	Transom Centres	Maximum Design Loads (Pa)					
	2700	S	3000	3000	3000	3000	3000
		U	9000	9000	7100	5490	4350
	2400	S	3000	3000	3000	3000	3000
		U	9000	9000	7150	5550	4400
	2100	S	3000	3000	3000	3000	3000
		U	9000	9000	7230	5680	4610
	1800	S	3000	3000	3000	3000	3000
		U	9000	9000	7560	6080	5010
	1500	S	3000	3000	3000	3000	3000
		U	9000	9000	8340	6810	5680
	1200	S	3000	3000	3000	3000	3000
		U	9000	9000	9000	8080	6790
Max Kg			280	205	150	115	90
lxx = 9669 x 10³ mm⁴ lyy = 356 x 10³ mm⁴	Transom Length		1800	2000	2200	2400	2600

ECO122 TRANSOM	Transom Centres	Maximum Design Loads (Pa)							
	2700	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	7580	6000	4840	3990
	2400	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	7680	6090	4980	4160
	2100	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	7850	6370	5290	4470
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	8400	6920	5810	4960
	1500	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	7850	6650	5720
	1200	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	8010	6920
	Max Kg			350	350	350	350	280	230
lxx = 8994 x 10³ mm⁴ lyy = 1164 x 10³ mm⁴	Transom Length		1800	2000	2200	2400	2600	2800	3000

Maximum glass weights have been determined to limit deflection to 5mm, using setting block locations at 1/8 points, capped at 250kg

Tables are based on theoretical section properties

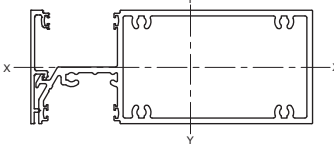
3. Loading Tables

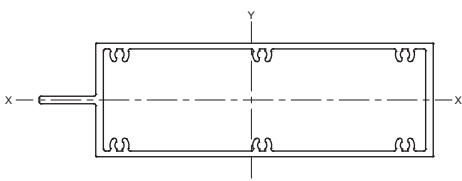
Transom Loading Tables

Max Stress = 110Mpa

S = Serviceability limit state l/250

U = Ultimate limit state

ECO102 + ECO121 TRANSOM	Transom Centres	Maximum Design Loads (Pa)							
	2700	S	3000	3000	3000	2690	2000	1500	1170
		U	9000	5200	4330	3280	2680	2130	1790
	2400	S	3000	3000	3000	2840	2070	1570	1220
		U	9000	5480	4420	3460	2740	2240	1870
	2100	S	3000	3000	3000	2890	2160	1660	1300
		U	8580	5780	4510	3540	2870	2380	2010
	1800	S	3000	3000	3000	3000	2330	1810	1440
		U	8210	6070	4710	3780	3120	2620	2230
	1500	S	3000	3000	3000	3000	2620	2060	1650
		U	8540	6540	5200	4240	3540	3000	2570
	1200	S	3000	3000	3000	3000	3000	2460	1980
		U	9000	7550	6100	5030	4230	3610	3120
	Max Kg		350	350	300	220	175	140	115
$I_{xx} = 2846 \times 10^3 \text{ mm}^4$ $I_{yy} = 695 \times 10^3 \text{ mm}^4$	Transom Length		1800	2000	2200	2400	2600	2800	3000

ECO126 TRANSOM	Transom Centres	Maximum Design Loads (Pa)							
	2700	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	7140	5490	4390	3620
	2400	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	6970	5530	4520	3780
	2100	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	7130	5780	4800	4060
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	7620	6280	5280	4500
	1500	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	8540	7120	6040	5190
	1200	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	8520	7270	6280
	Max Kg		250	250	250	250	232	186	151
$I_{xx} = 8199 \times 10^3 \text{ mm}^4$ $I_{yy} = 1102 \times 10^3 \text{ mm}^4$	Transom Length		1800	2000	2200	2400	2600	2800	3000

Maximum glass weights have been determined to limit deflection to 5mm, using setting block locations at 1/8 points, capped at 250kg

Tables are based on theoretical section properties

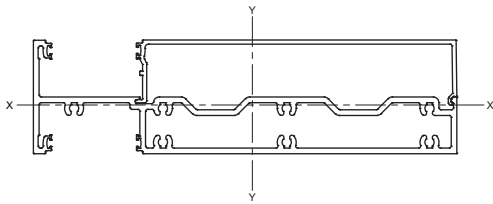
3. Loading Tables

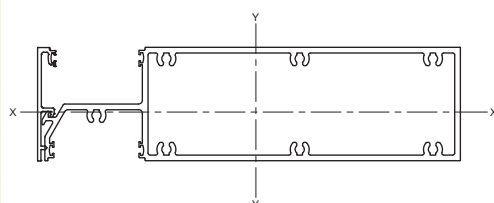
Transom Loading Tables

Max Stress = 110Mpa

S = Serviceability limit state l/250

U = Ultimate limit state

ECO152 + ECO513 TRANSOM	Transom Centres	Maximum Design Loads (Pa)				
	2700	S	3000	3000	3000	3000
		U	9000	9000	9000	8050 6190
	2400	S	3000	3000	3000	3000
		U	9000	9000	9000	7850 6230
	2100	S	3000	3000	3000	3000
		U	9000	9000	9000	8030 6510
	1800	S	3000	3000	3000	3000
		U	9000	9000	9000	8590 7080
	1500	S	3000	3000	3000	3000
		U	9000	9000	9000	9000 8030
	1200	S	3000	3000	3000	3000
		U	9000	9000	9000	9000 9000
	Max Kg		221	161	121	93 73
$I_{xx} = 9416 \times 10^3 \text{ mm}^4$ $I_{yy} = 349 \times 10^3 \text{ mm}^4$		Transom Length	1800	2000	2200	2400 2600

ECO102 + ECO503 TRANSOM	Transom Centres	Maximum Design Loads (Pa)							
	2700	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	6990	5370	4300	3540
	2400	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	8970	6820	5410	4420	3690
	2100	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	8880	6970	5650	4690	3970
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	7460	6140	5160	4400
	1500	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	8360	6970	5910	5070
	1200	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	8340	7110	6140
	Max Kg			250	250	250	250	222	178
lxx = 8459 x 10³ mm⁴ lyy = 1024 x 10³ mm⁴	Transom Length	1800	2000	2200	2400	2600	2800	3000	

Maximum glass weights have been determined to limit deflection to 5mm, using setting block locations at 1/8 points, capped at 250kg

Tables are based on theoretical section properties

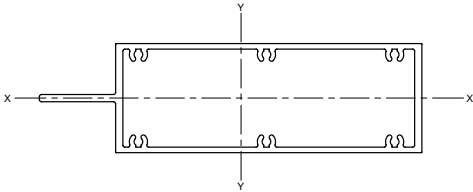
3. Loading Tables

Transom Loading Tables

Max Stress = 110Mpa

S = Serviceability limit state I/250

U = Ultimate limit state

ECO515 TRANSOM	Transom Centres	Maximum Design Loads (Pa)							
	2700	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	6520	5010	4010	3300
	2400	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	8360	6360	5040	4120	3450
	2100	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	8280	6500	5270	4380	3700
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	8660	6950	5730	4810	4110
	1500	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	7800	6500	5510	4730
	1200	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	7770	6630	5730
	Max Kg		250	250	250	250	250	222	181
$I_{xx} = 7758 \times 10^3 \text{ mm}^4$ $I_{yy} = 1053 \times 10^3 \text{ mm}^4$	Transom Length		1800	2000	2200	2400	2600	2800	3000

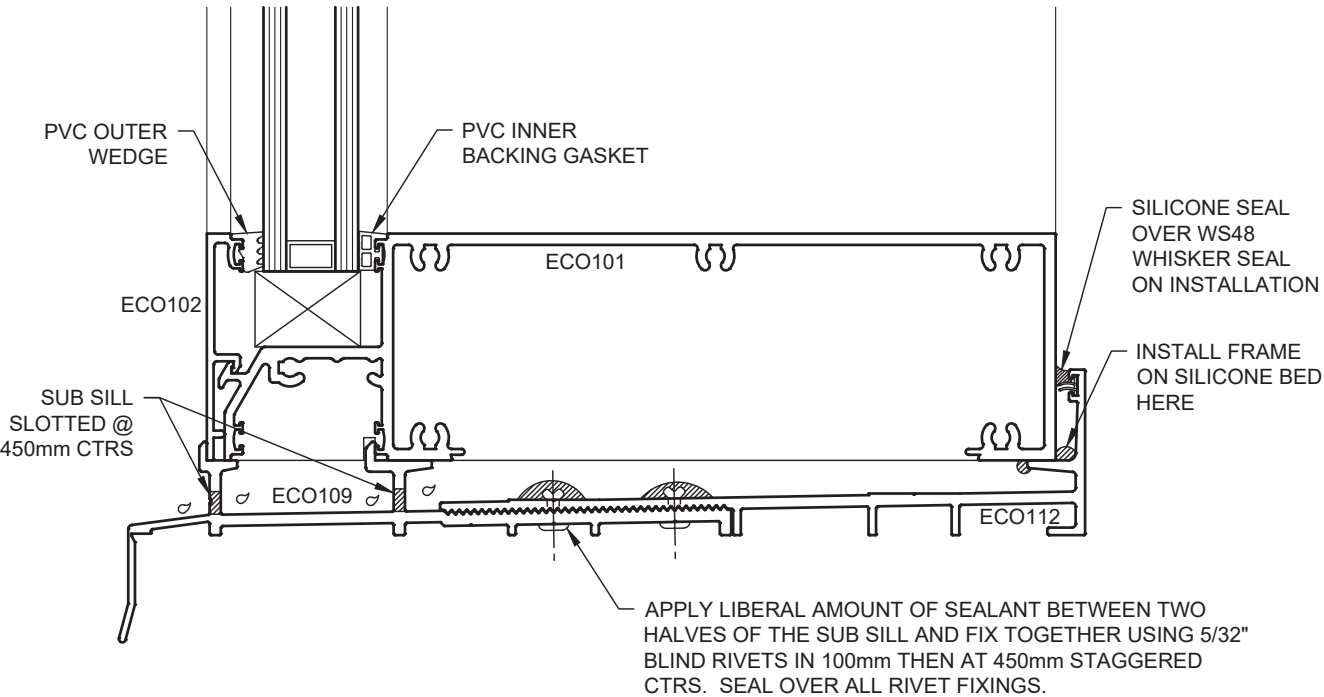
Maximum glass weights have been determined to limit deflection to 5mm, using setting block locations at 1/8 points, capped at 250kg

Tables are based on theoretical section properties

4. Test Summary

AS2047 - Fixed Panels

TEST REPORT:	AS10-060
SYSTEM CONFIGURATION	ecoWall 225 FLUSH GLAZED FRAMING F/F/F - F/F/F
TEST SAMPLE SIZE	3.135m (H) x 4.55m (W)
SERVICEABILITY LOAD	+/- 4.0 kPa
ULTIMATE LOAD	+/- 6.1 kPa
WATER PENETRATION	1200 Pa
AIR INFILTRATION @ 75Pa	+ 0.01 L/m/s ² - 0.02 L/m/s ²

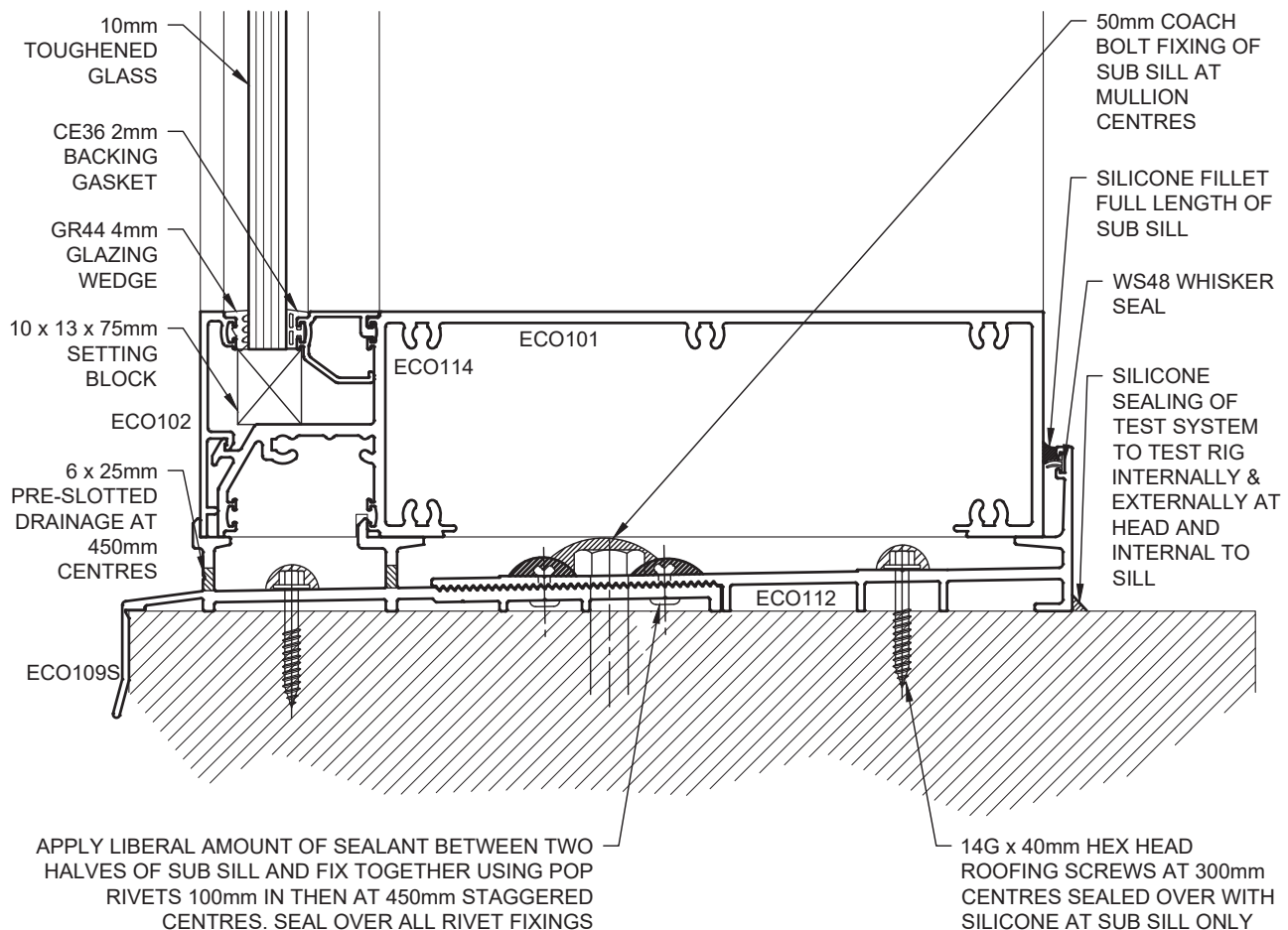


DISCLAIMER:
Please note that the test results shown above reflect specific configurations of a system and are representative only. If a specific high wind load or a different configuration (i.e. changes to frames, transoms, mullions) is required on a project please discuss with Alspec prior to commencement.

4. Test Summary

AS2047 - Fixed Panels

TEST REPORT:	OT24-222
SYSTEM CONFIGURATION	ecoWall 225 FLUSH GLAZED FRAMING F/F
TEST SAMPLE SIZE	3.215m (H) x 3.02m (W)
SERVICEABILITY LOAD	+/- 4.0 kPa
ULTIMATE LOAD	+/- 7.007 kPa
WATER PENETRATION	1200 Pa
AIR INFILTRATION @ 75Pa	+ 0.04 L/m/s ² - 0.21 L/m/s ²



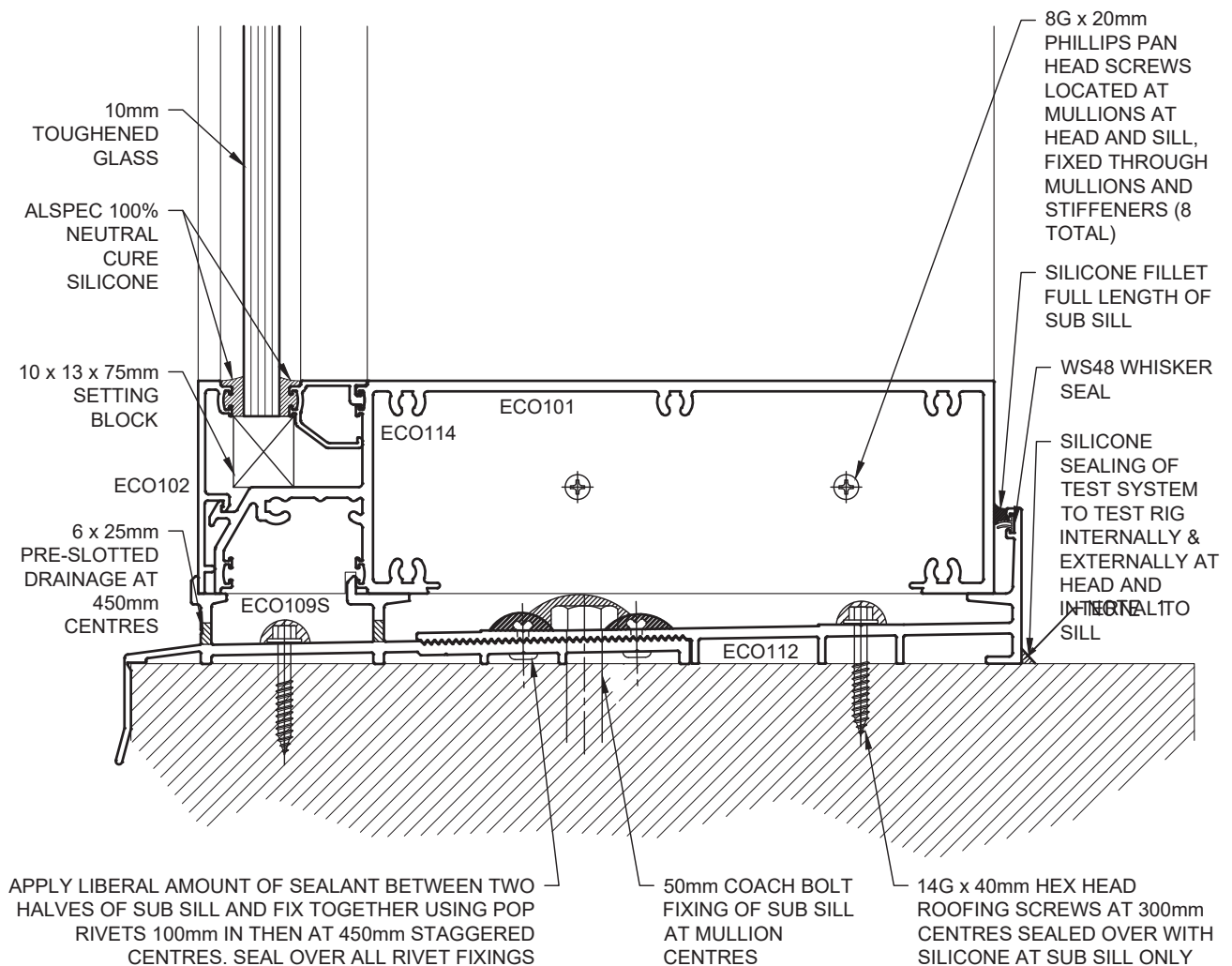
DISCLAIMER:

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

4. Test Summary

AS2047 - Fixed Panels

TEST REPORT:	OT24-223
SYSTEM CONFIGURATION	ecoWall 225 FLUSH GLAZED FRAMING F/F - SILICONE SEALED GLAZING
TEST SAMPLE SIZE	3.215m (H) x 3.02m (W)
SERVICEABILITY LOAD	+/- 5.0 kPa
ULTIMATE LOAD	+/- 6.007 kPa
WATER PENETRATION	1500 Pa
AIR INFILTRATION @ 75Pa	+ 0.60 L/m/s ² - 0.81 L/m/s ²



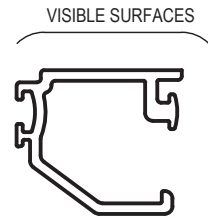
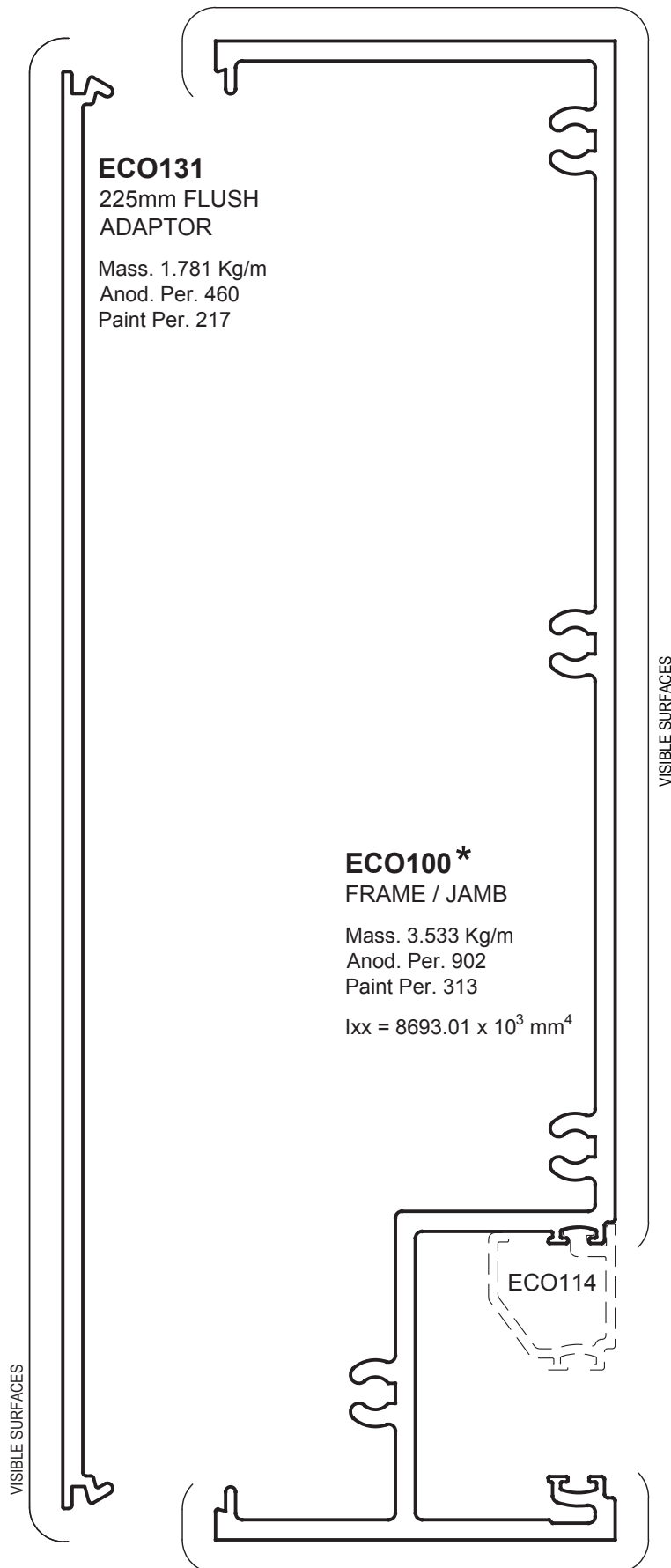
DISCLAIMER:

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

4. Test Summary

Acoustic - AS/NZS ISO 717.1

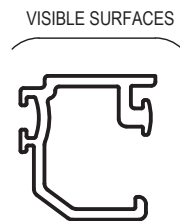
TEST REPORT	PRODUCT DESCRIPTION	SIZE	GLASS	Rw
4704-R10	ecoWALL 255 DG FIXED / FIXED	2.1m (H) x 1.8 (W)	6.38mm LAMINATE / 10mm AIR / 8.38mm LAMINATE	37



ECO114 *
16mm ADAPTOR
(SLIDE IN)

Mass. 0.259 Kg/m
Anod. Per. 136
Paint Per. 100

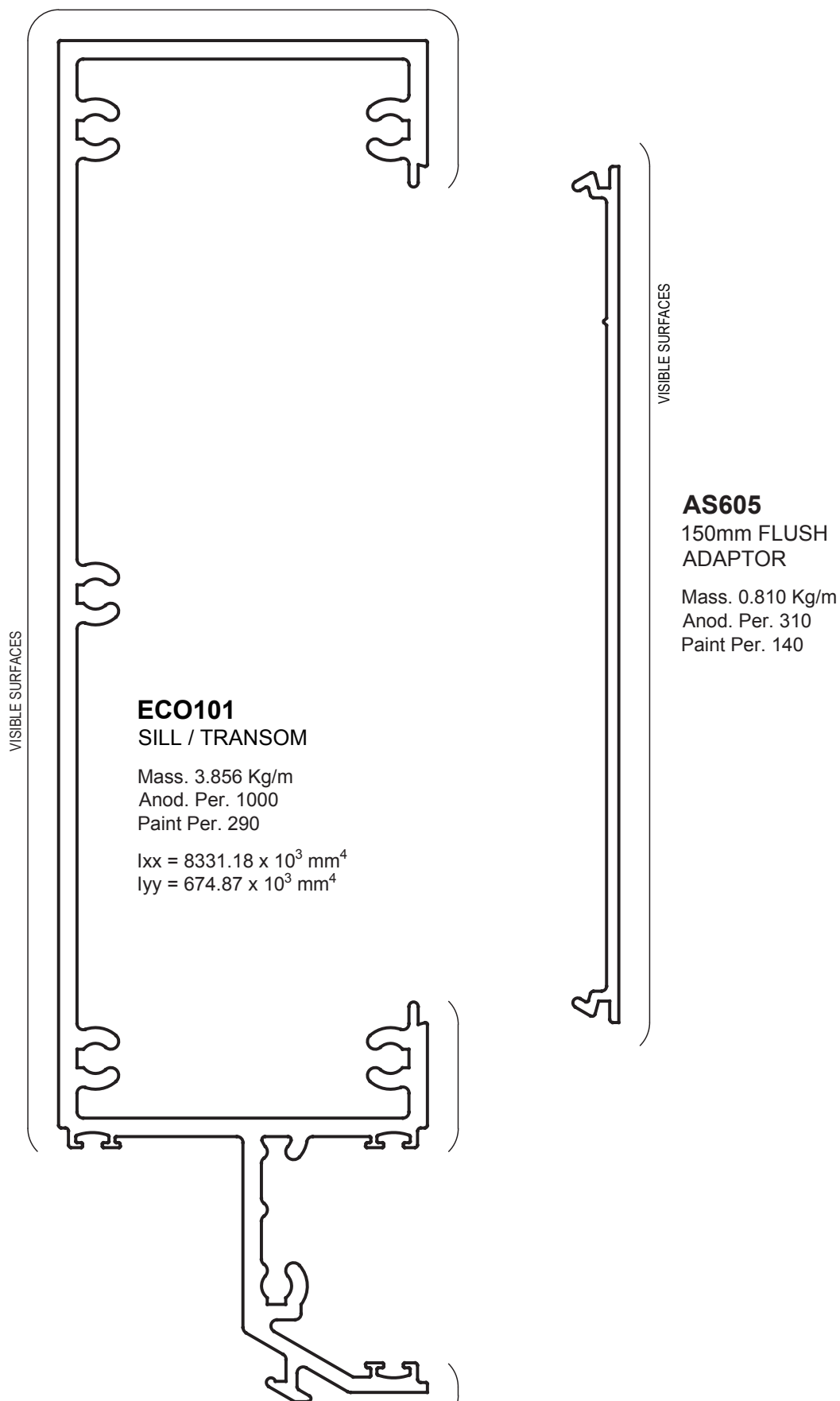
IMPORTANT NOTE:
ECO114 & ECO115 SG
ADAPTORS SLIDE INTO
FRAMING SECTIONS.
THEY DO NOT CLIP IN.

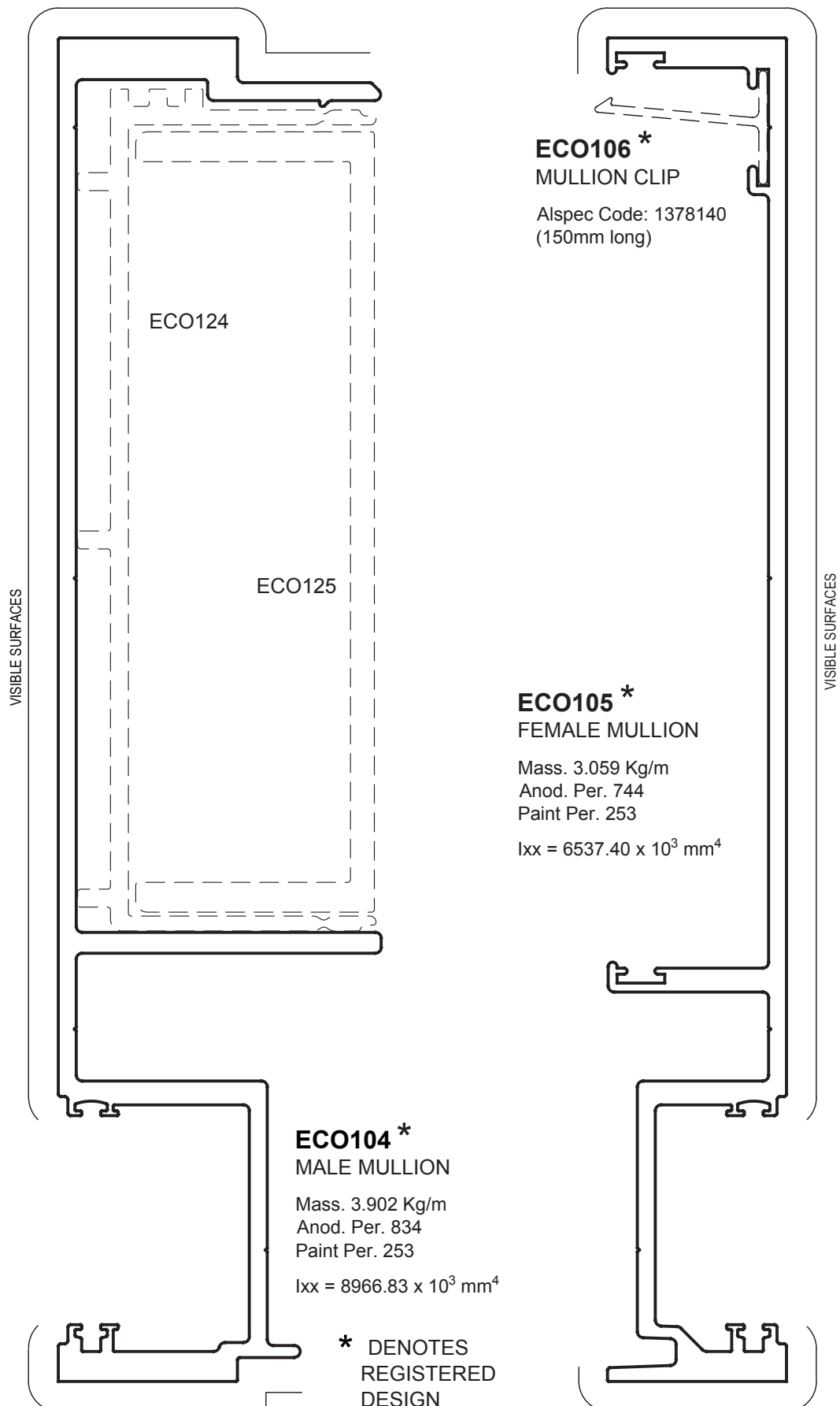


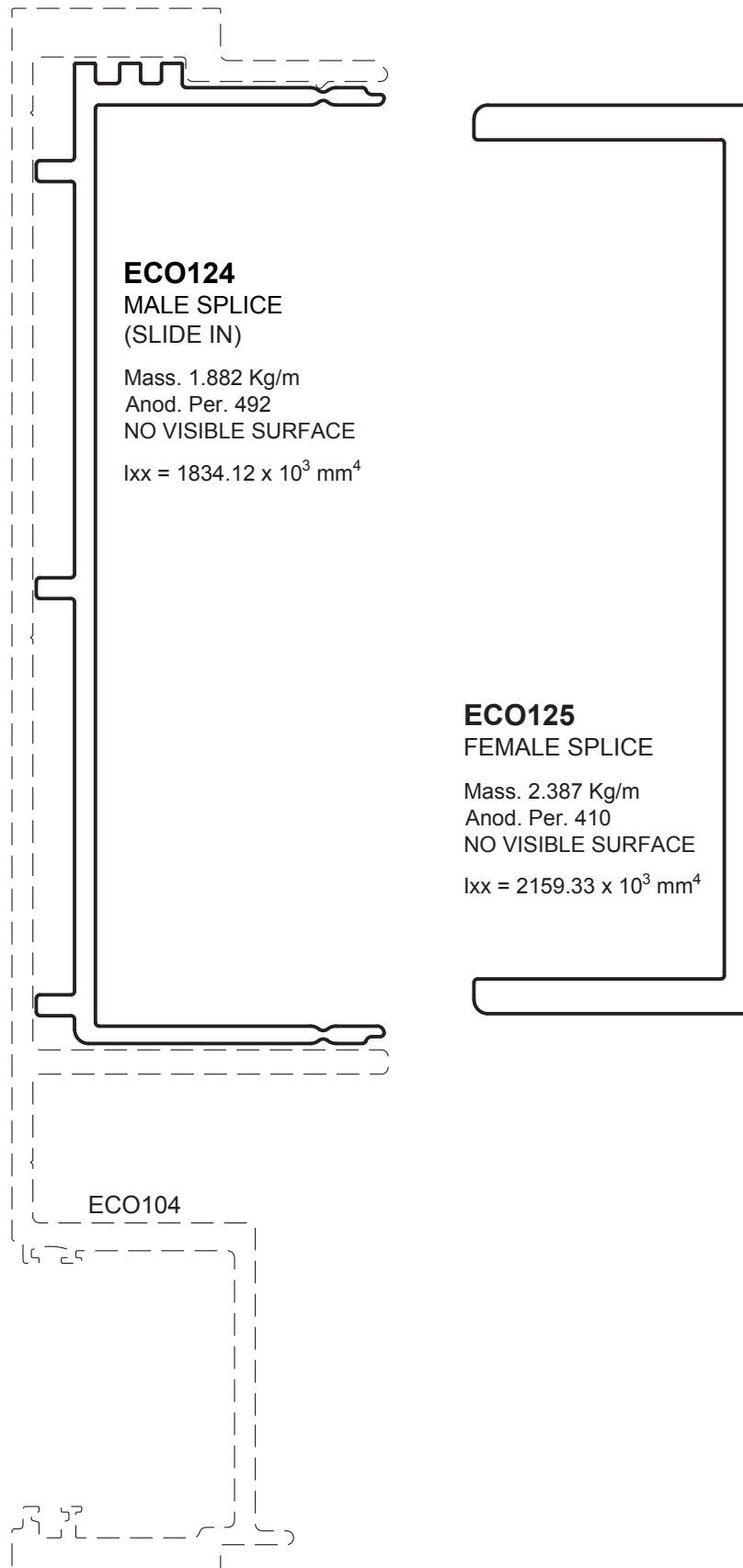
ECO115
20mm ADAPTOR
(SLIDE IN)

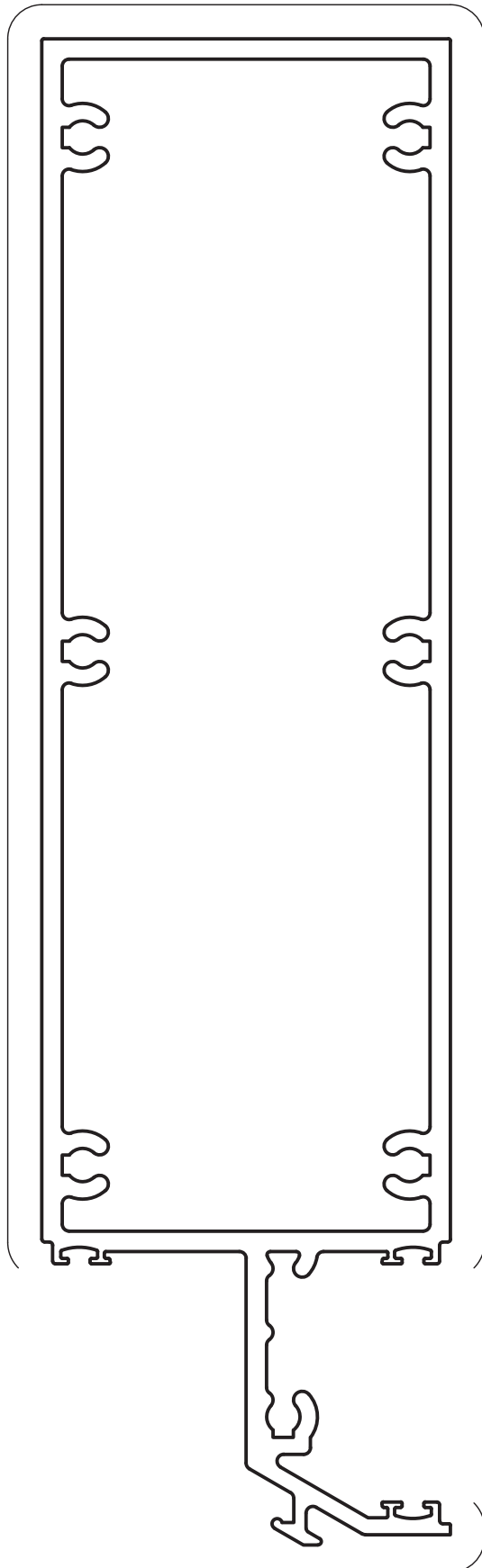
Mass. 0.236 Kg/m
Anod. Per. 124
Paint Per. 100

* DENOTES REGISTERED DESIGN









ECO103*
TRANSOM

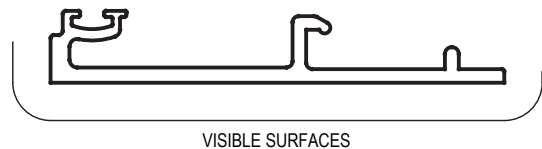
Mass. 5.063 Kg/m

Anod. Per. 687

Paint Per. 429

$I_{xx} = 9091.19 \times 10^3 \text{ mm}^4$

$I_{yy} = 1104.10 \times 10^3 \text{ mm}^4$



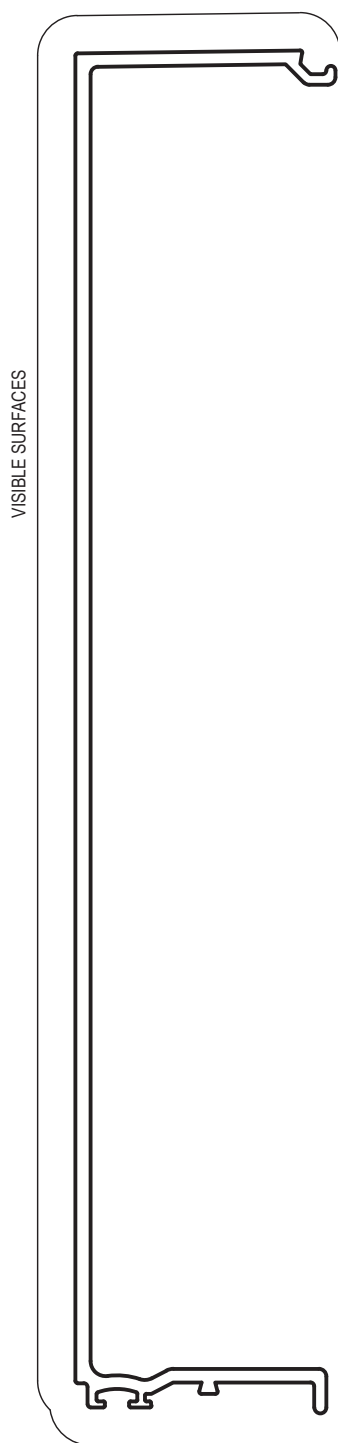
ECO102
SILL / TRANSOM CAP

Mass. 0.451 Kg/m

Anod. Per. 183

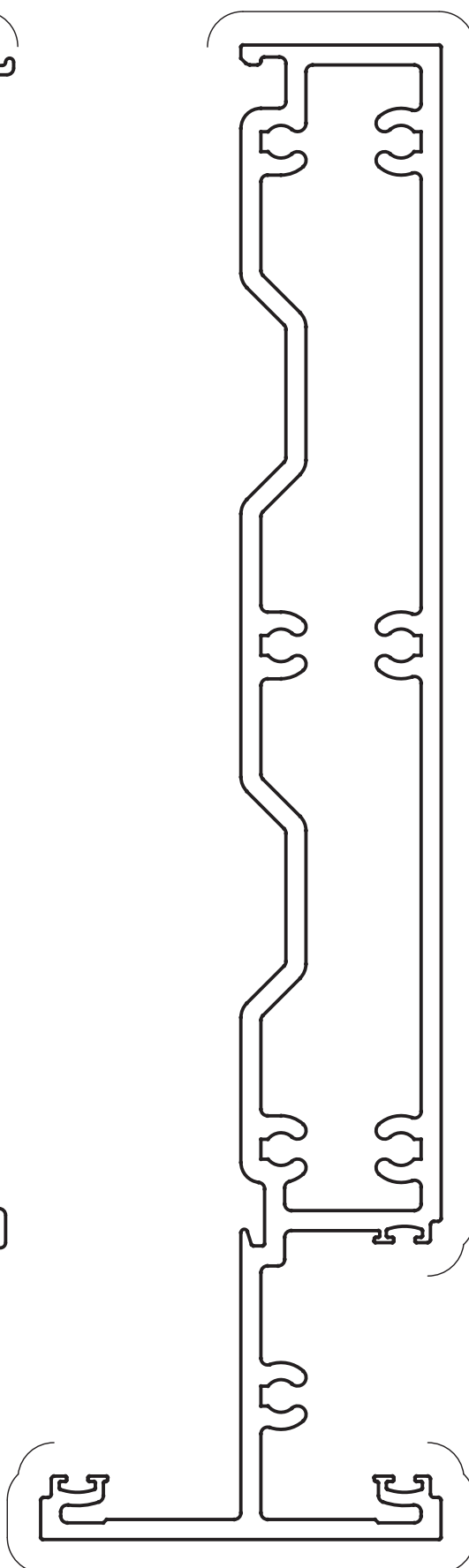
Paint Per. 100

* DENOTES REGISTERED DESIGN



ECO120
INTERNAL GLAZE
BEAD

Mass. 1.320 Kg/m
Anod. Per. 512
Paint Per. 210



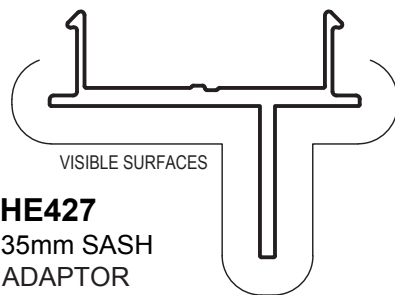
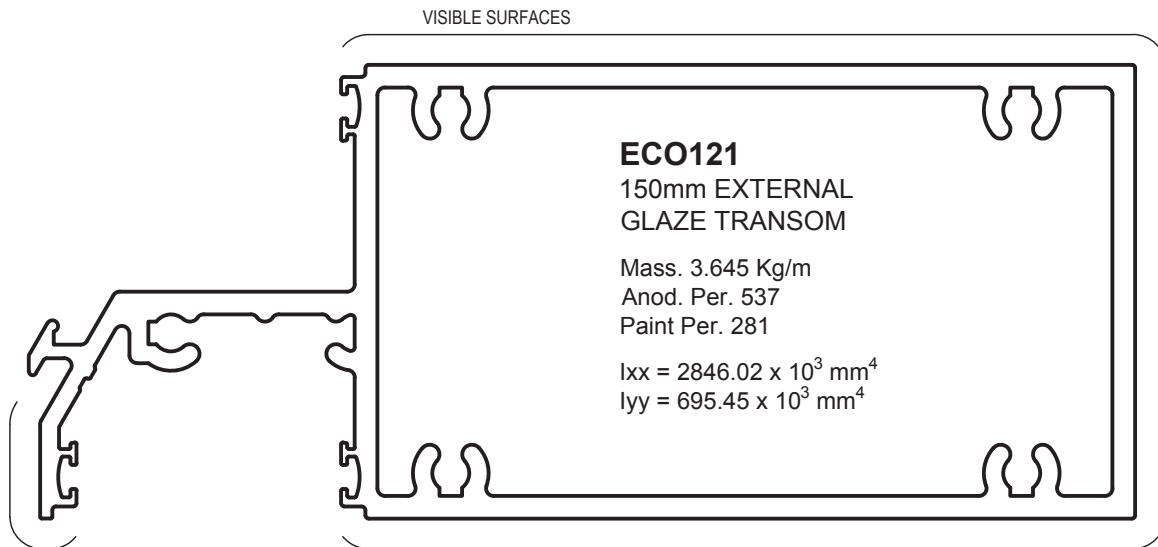
ECO119
INTERNAL GLAZE
TRANSOM

Mass. 5.065 Kg/m
Anod. Per. 755
Paint Per. 290

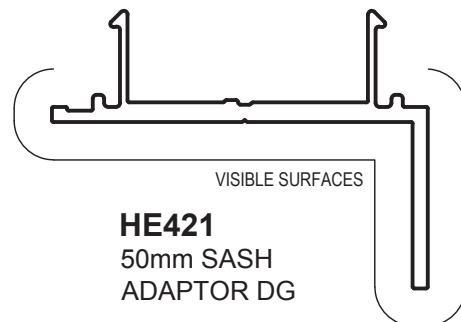
$I_{xx} = 9668.45 \times 10^3 \text{ mm}^4$
 $I_{yy} = 356.31 \times 10^3 \text{ mm}^4$

VISIBLE SURFACES

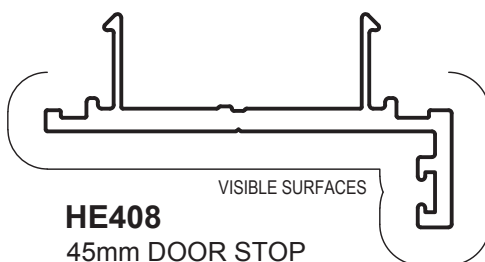
VISIBLE SURFACES



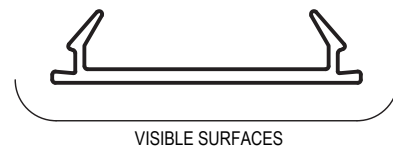
Mass. 0.418 Kg/m
Anod. Per. 169
Paint Per. 100



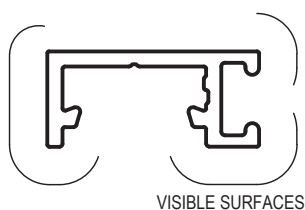
Mass. 0.525 Kg/m
Anod. Per. 205
Paint Per. 100



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



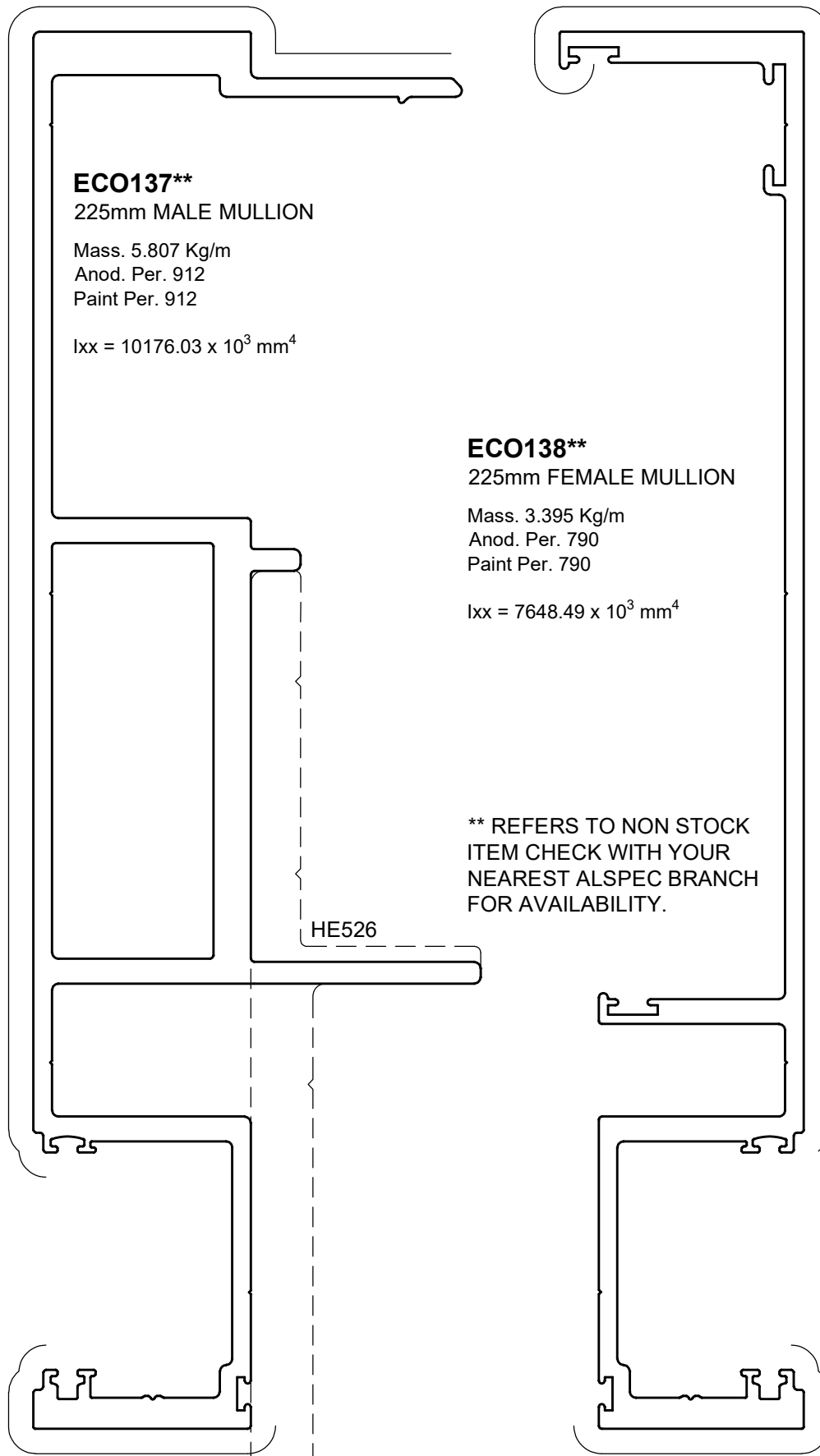
Mass. 0.253 Kg/m
Anod. Per. 119
Paint Per. 100

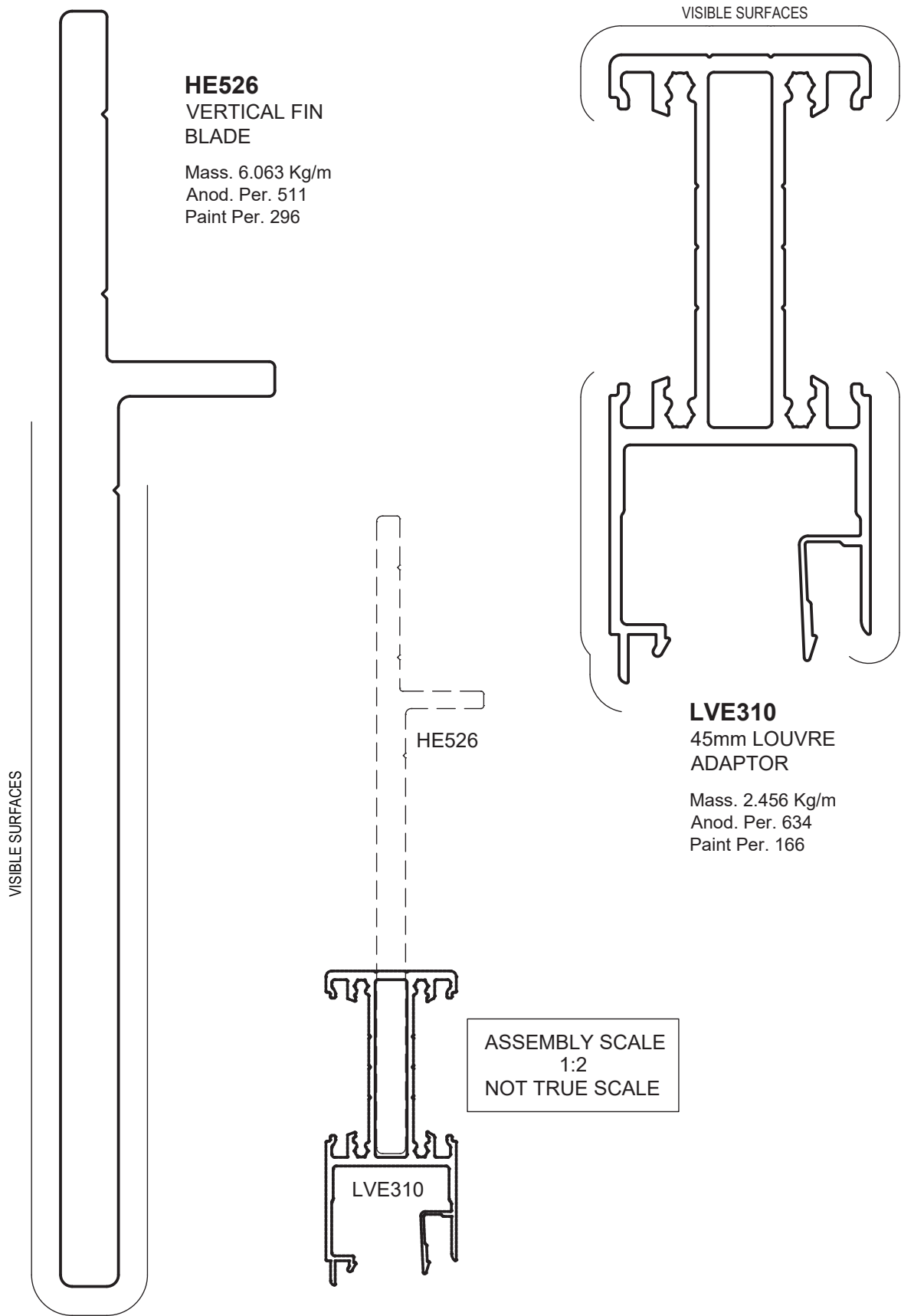


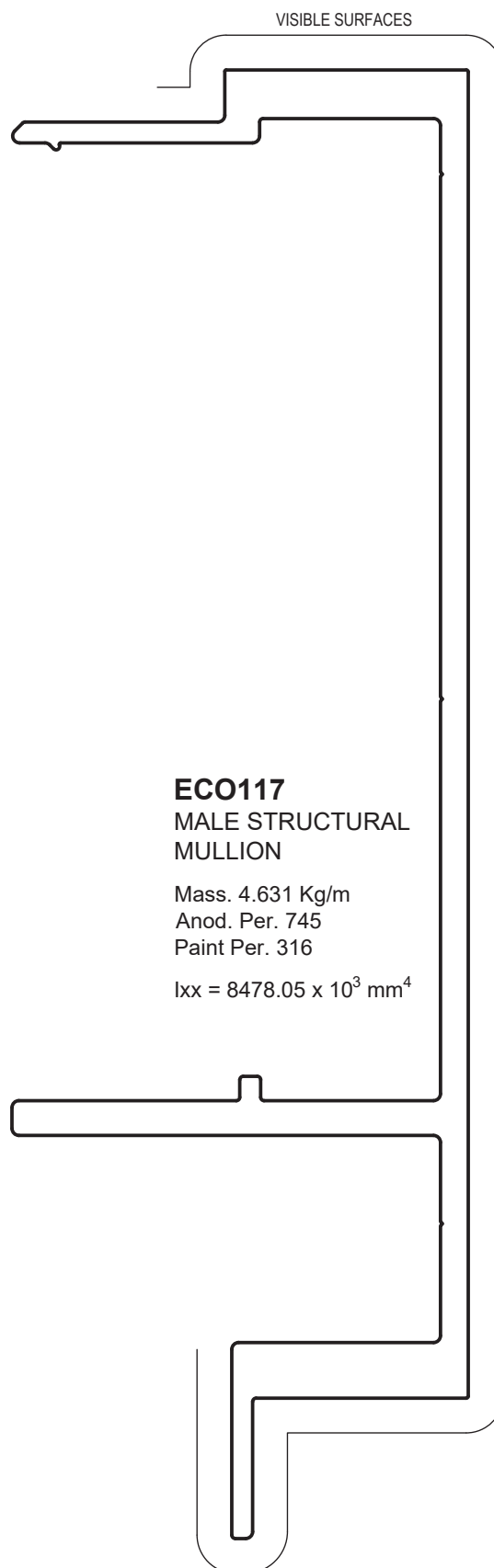
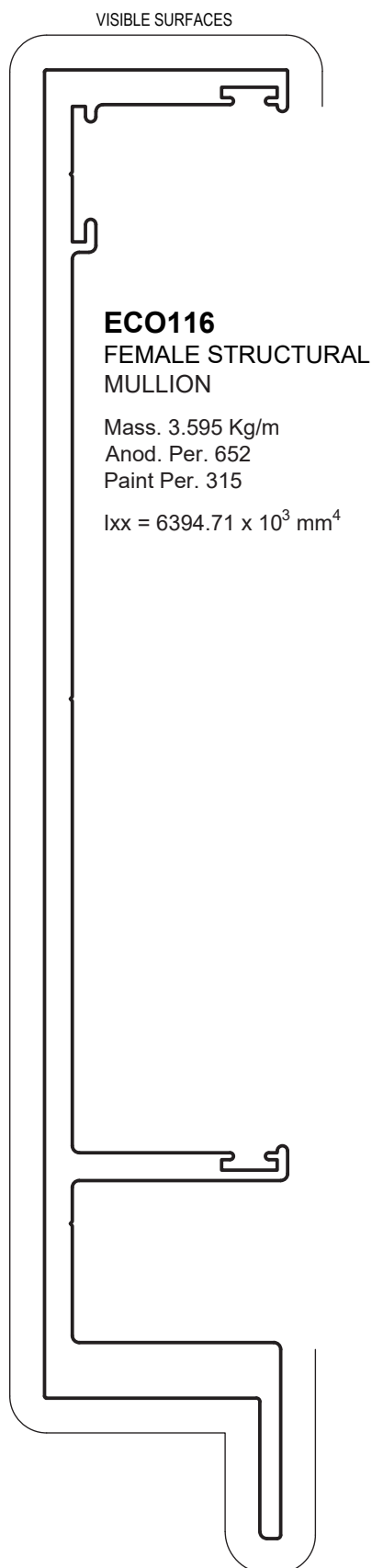
Mass. 0.315 Kg/m
Anod. Per. 125
Paint Per. 100

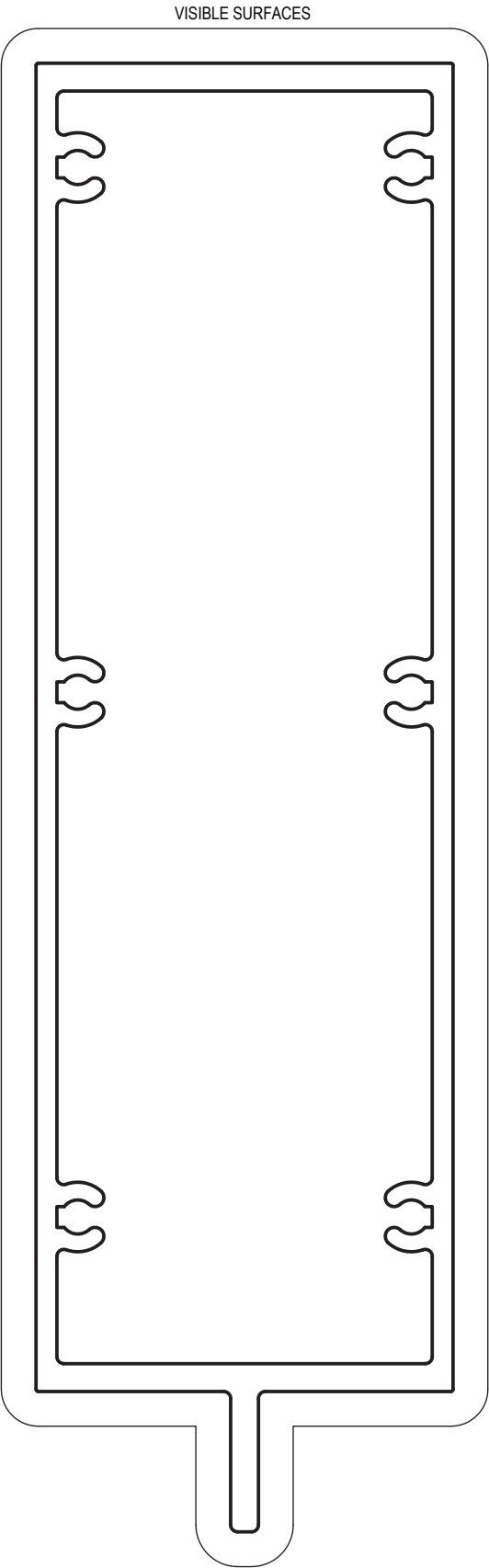


Mass. 0.113 Kg/m
Anod. Per. 100
Paint Per. 100





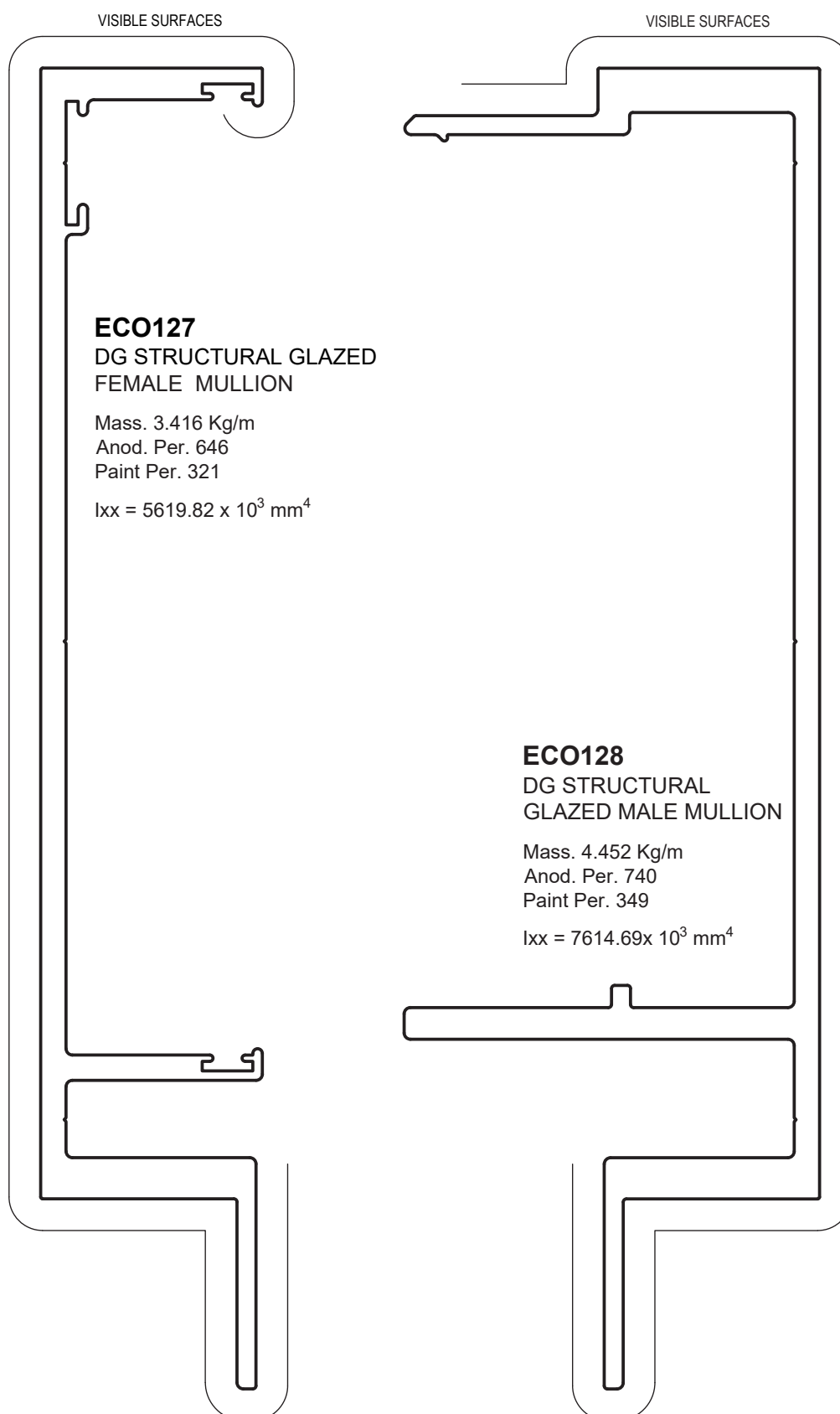


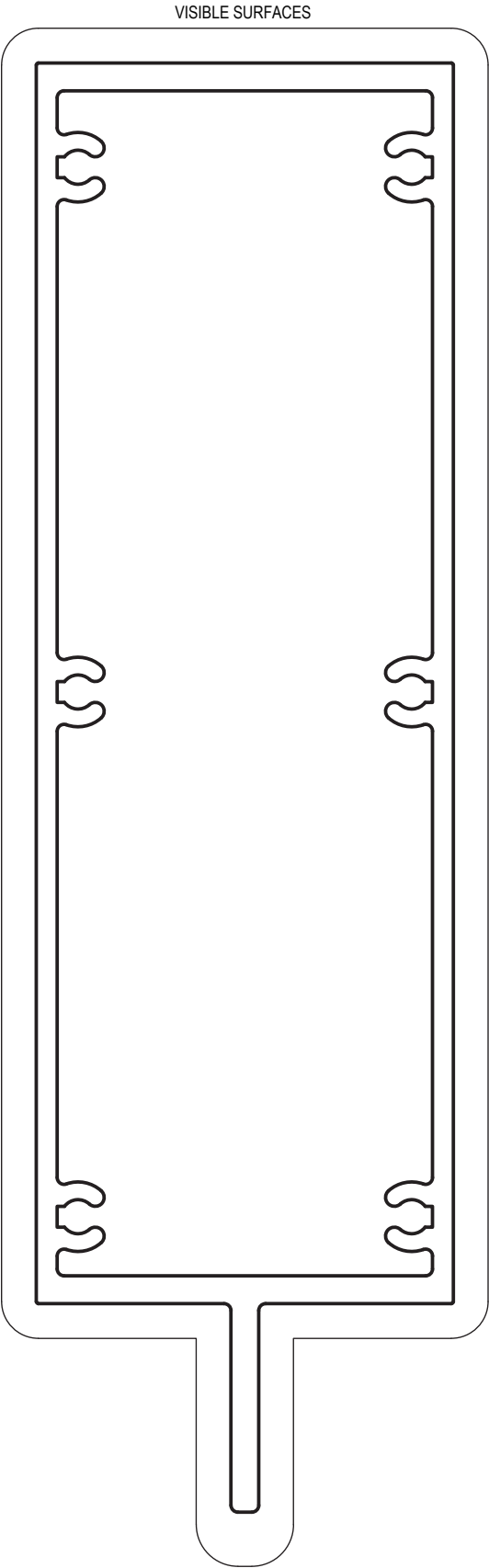


ECO122
STRUCTURAL GLAZED
TRANSOM

Mass. 5.095 Kg/m
Anod. Per. 540
Paint Per. 540

$I_{xx} = 8994.13 \times 10^3 \text{ mm}^4$
 $I_{yy} = 1163.74 \times 10^3 \text{ mm}^4$

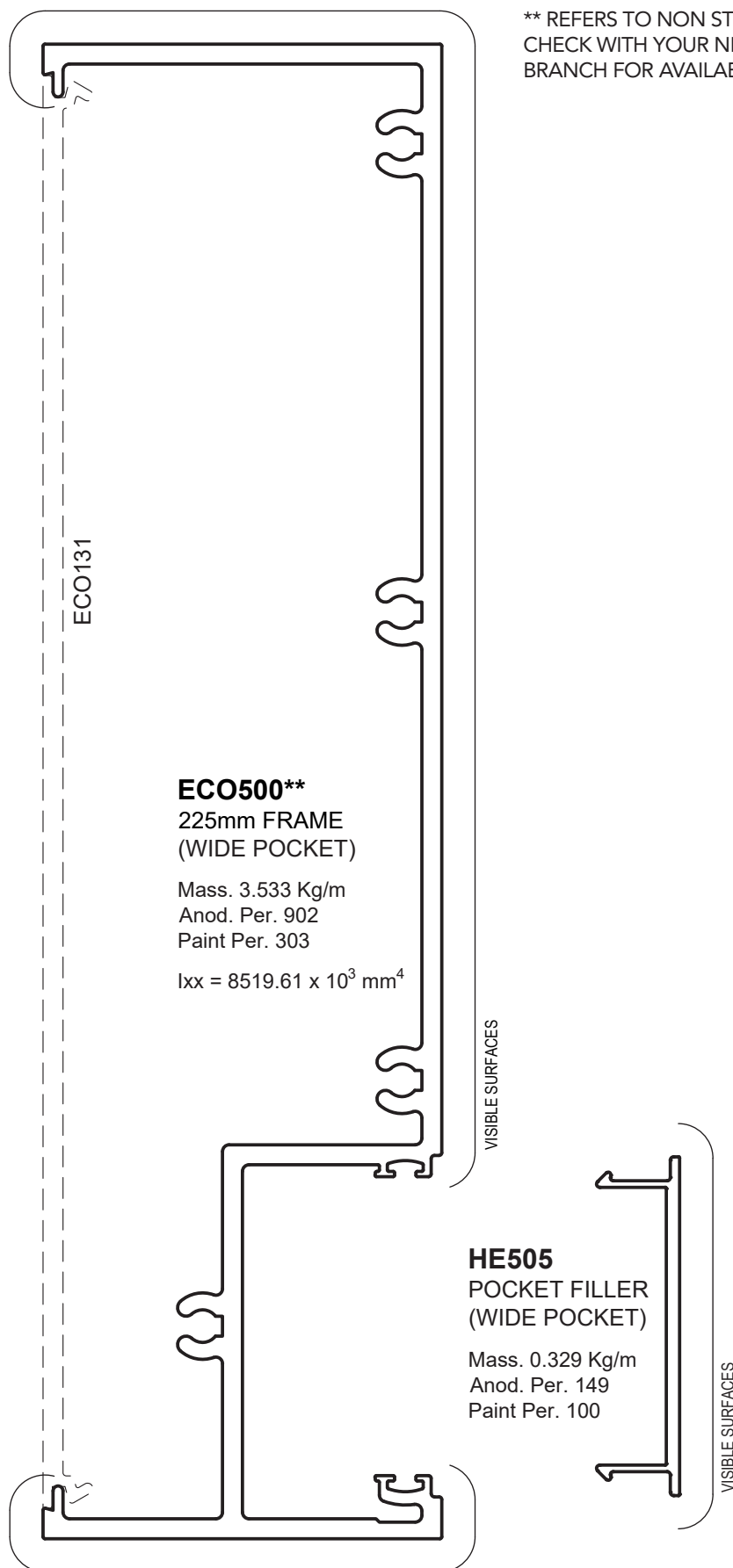




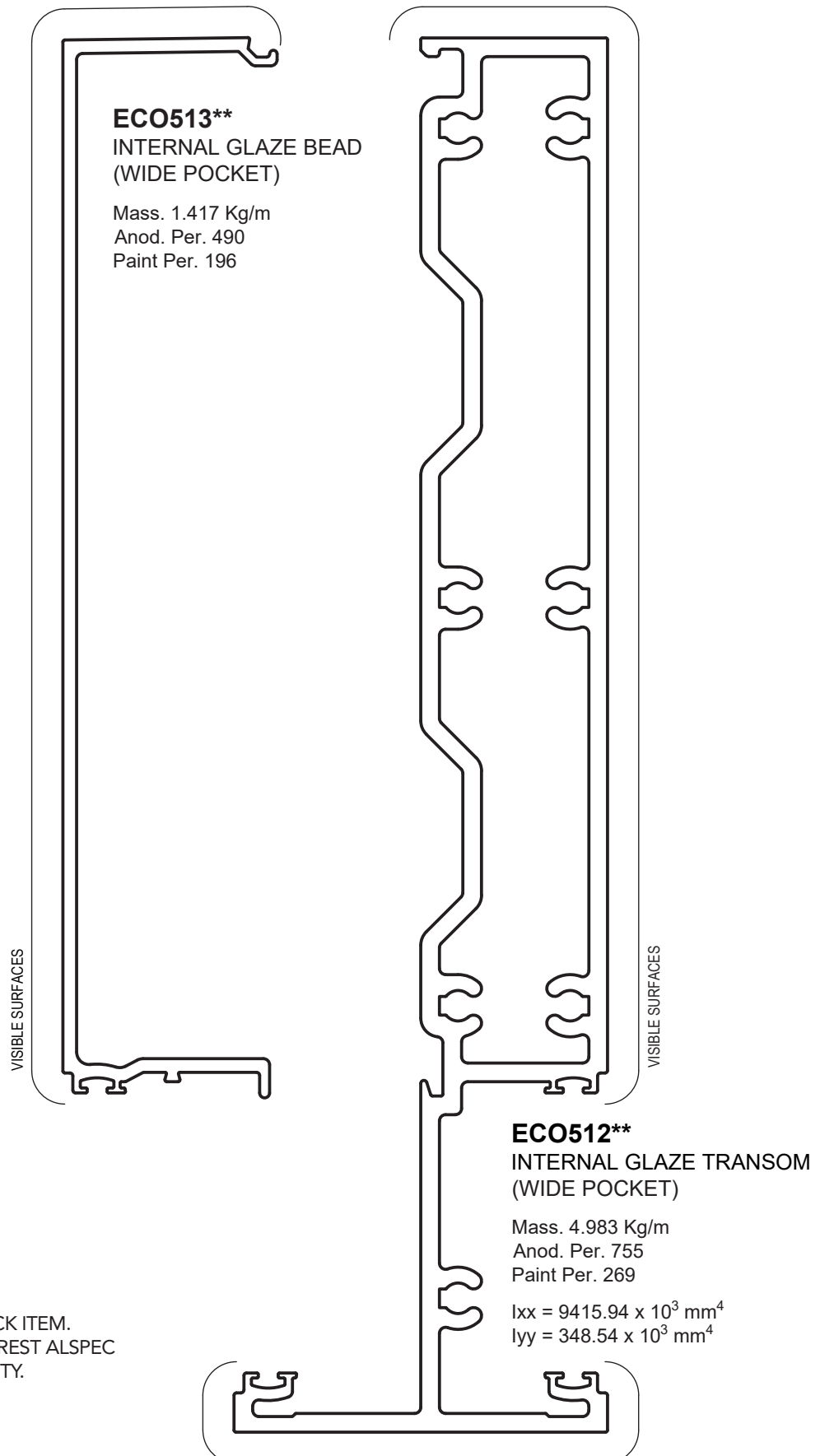
ECO126
DG STRUCTURAL
GLAZED TRANSOM

Mass. 4.996 Kg/m
Anod. Per. 535
Paint Per. 535

$I_{xx} = 8198.62 \times 10^3 \text{ mm}^4$
 $I_{yy} = 1102.32 \times 10^3 \text{ mm}^4$



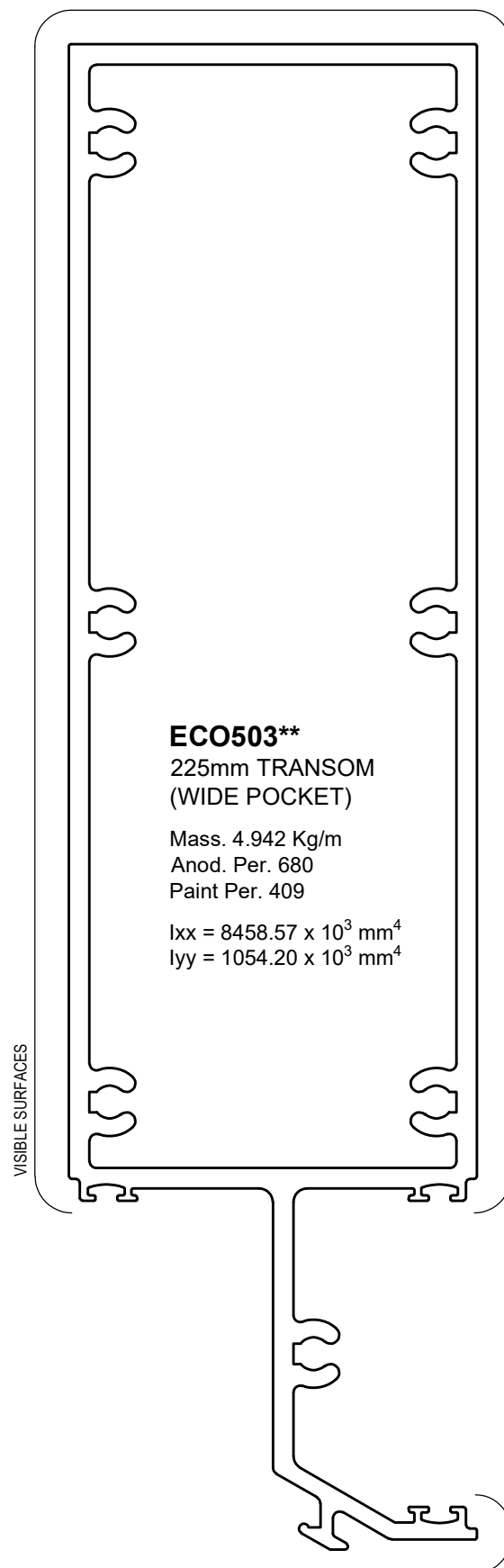
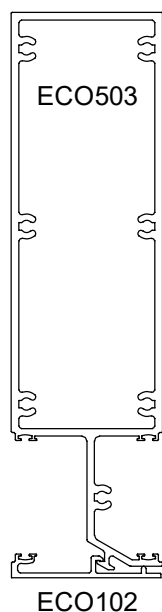
** REFERS TO NON STOCK ITEM.
CHECK WITH YOUR NEAREST ALSPEC
BRANCH FOR AVAILABILITY.



** REFERS TO NON STOCK ITEM.
CHECK WITH YOUR NEAREST ALSPEC
BRANCH FOR AVAILABILITY.

5. Extrusions

** REFERS TO NON STOCK ITEM.
CHECK WITH YOUR NEAREST ALSPEC
BRANCH FOR AVAILABILITY.



** REFERS TO NON STOCK ITEM.
CHECK WITH YOUR NEAREST ALSPEC
BRANCH FOR AVAILABILITY.

ECO504**

225mm MALE MULLION
(WIDE POCKET)

Mass. 3.902 Kg/m
Anod. Per. 833
Paint Per. 243

$I_{xx} = 8705.54 \times 10^3 \text{ mm}^4$

ECO505**

225mm FEMALE
MULLION
(WIDE POCKET)

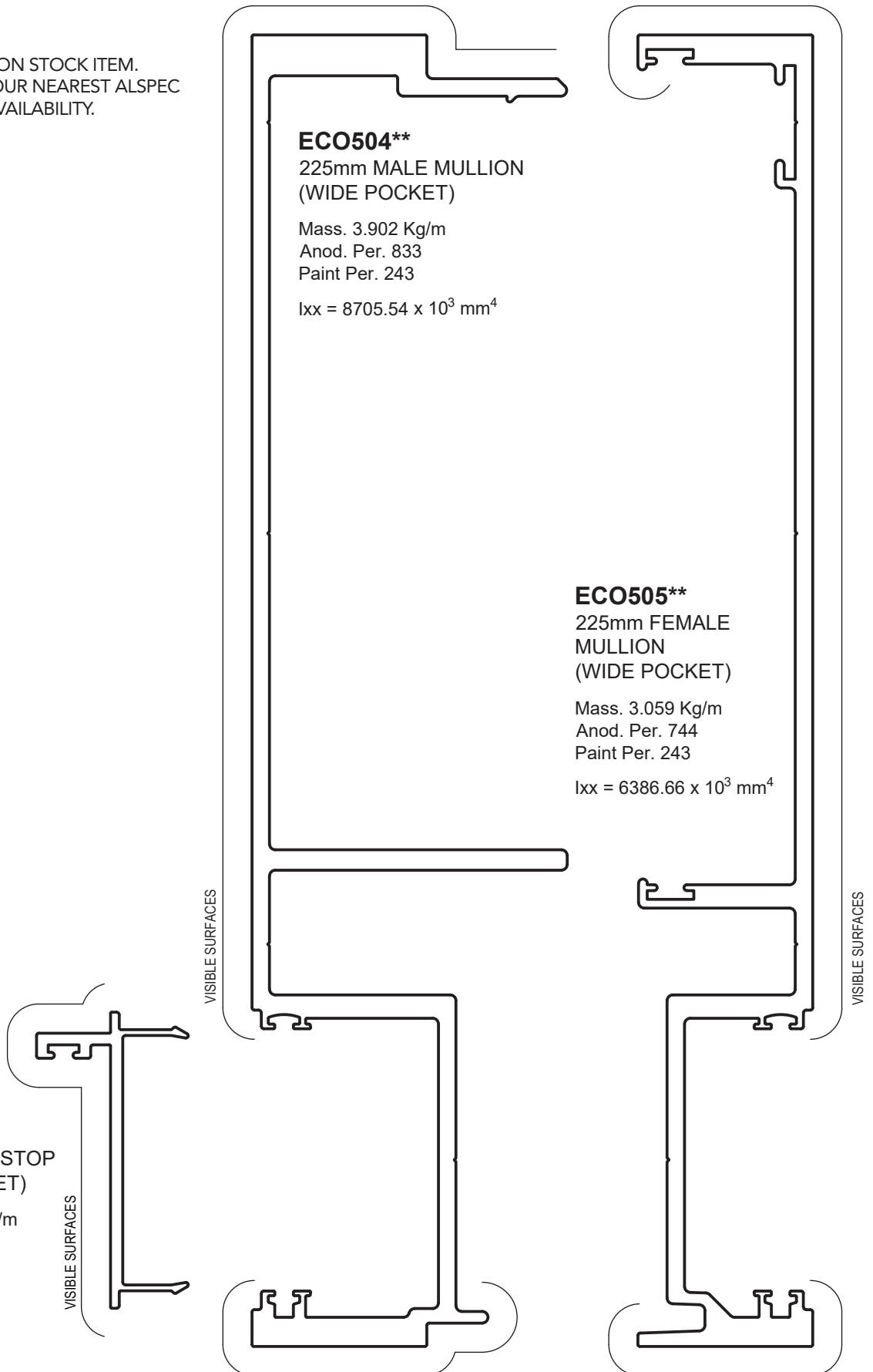
Mass. 3.059 Kg/m
Anod. Per. 744
Paint Per. 243

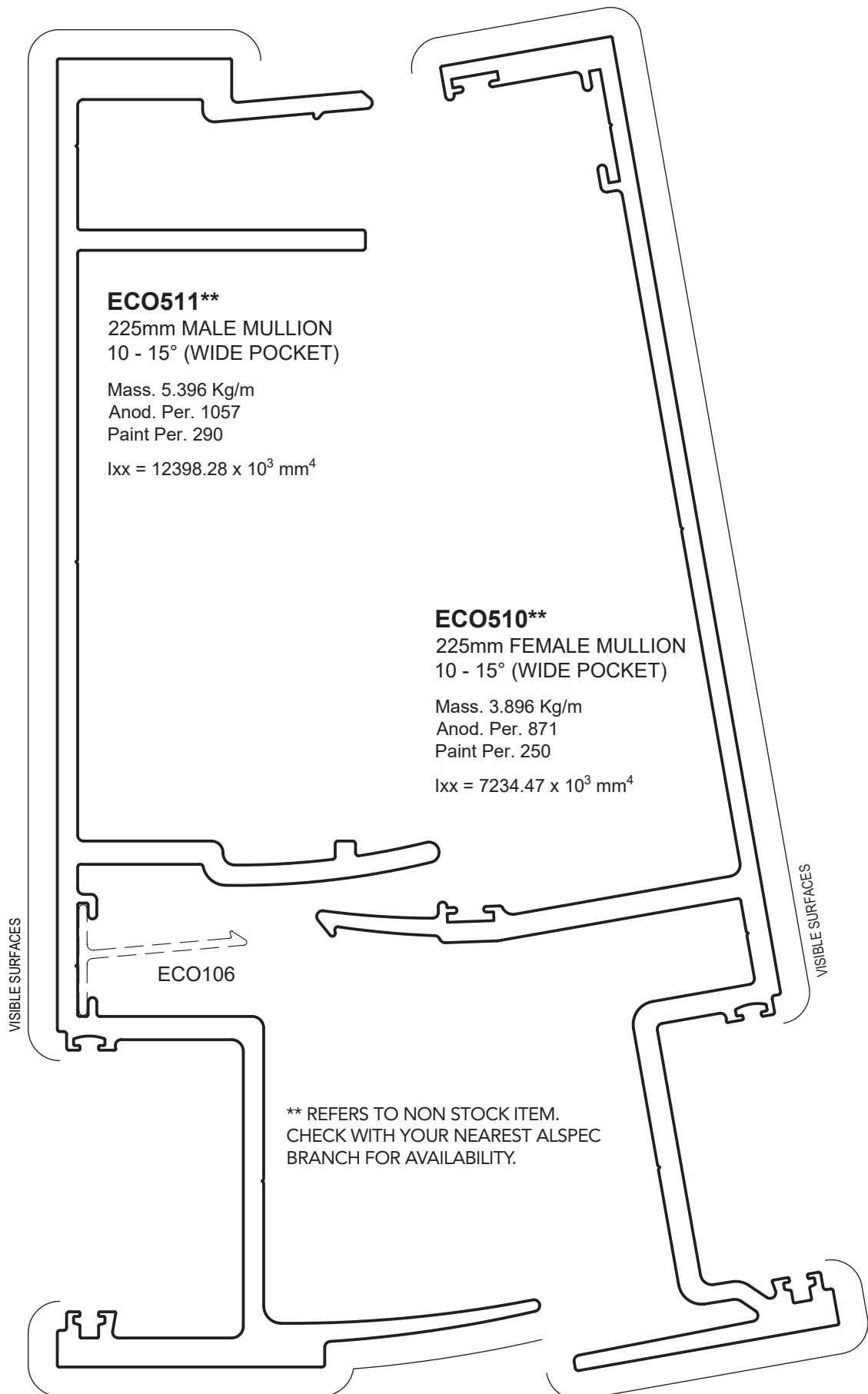
$I_{xx} = 6386.66 \times 10^3 \text{ mm}^4$

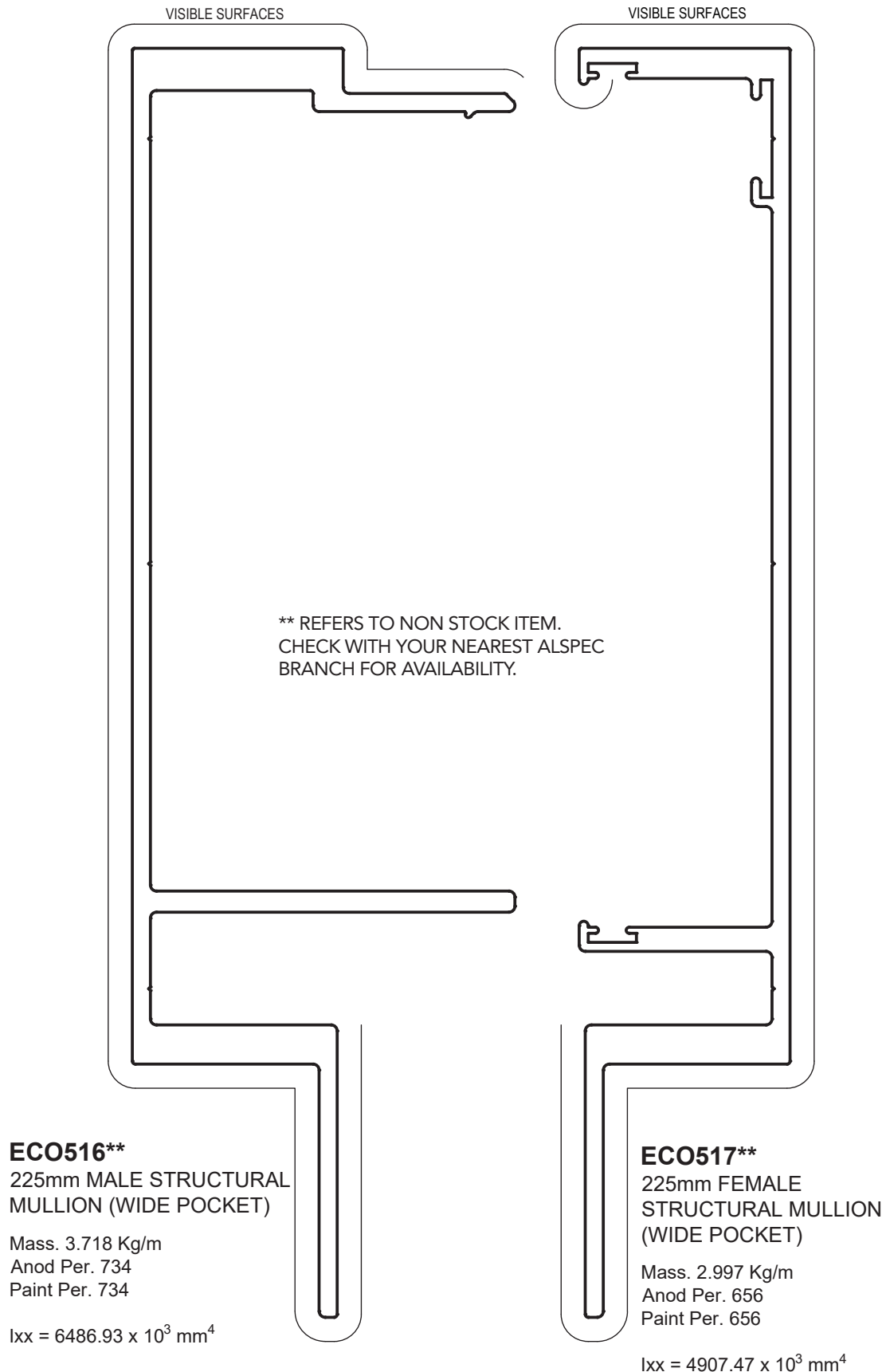
ECO508**

45mm DOOR STOP
(WIDE POCKET)

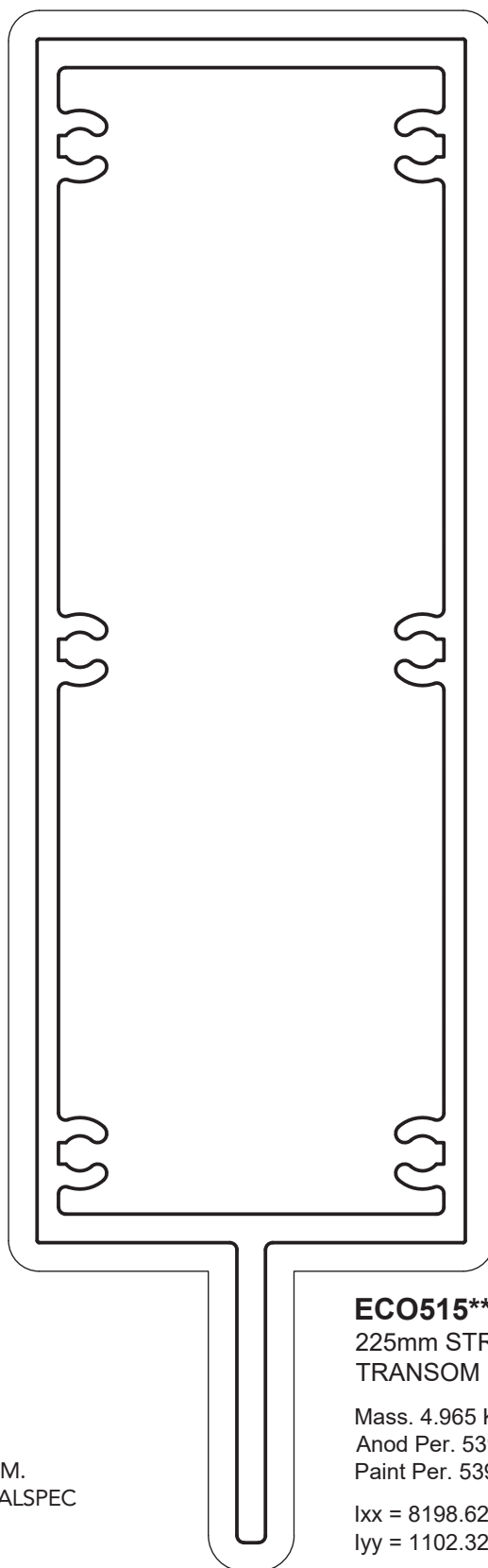
Mass. 0.442 Kg/m
Anod. Per. 187
Paint Per. 100







VISIBLE SURFACES

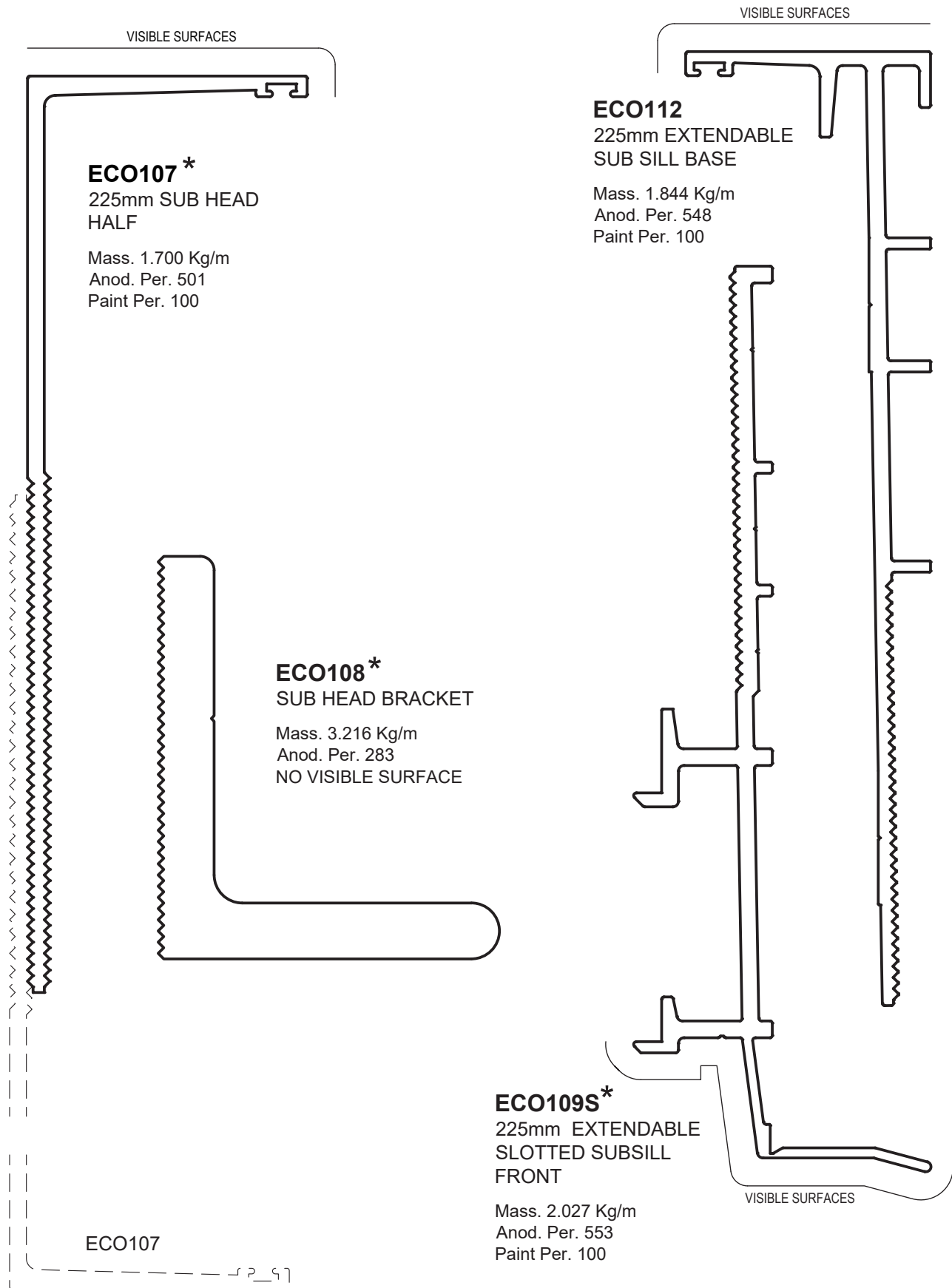


** REFERS TO NON STOCK ITEM.
CHECK WITH YOUR NEAREST ALSPEC
BRANCH FOR AVAILABILITY.

ECO515**
225mm STRUCTURAL
TRANSOM (WIDE POCKET)

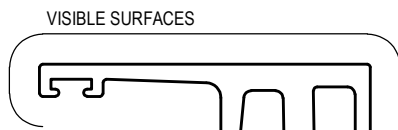
Mass. 4.965 Kg/m
Anod Per. 539
Paint Per. 539

$I_{xx} = 8198.62 \times 10^3 \text{ mm}^4$
 $I_{yy} = 1102.32 \times 10^3 \text{ mm}^4$



* DENOTES REGISTERED DESIGN

5. Extrusions



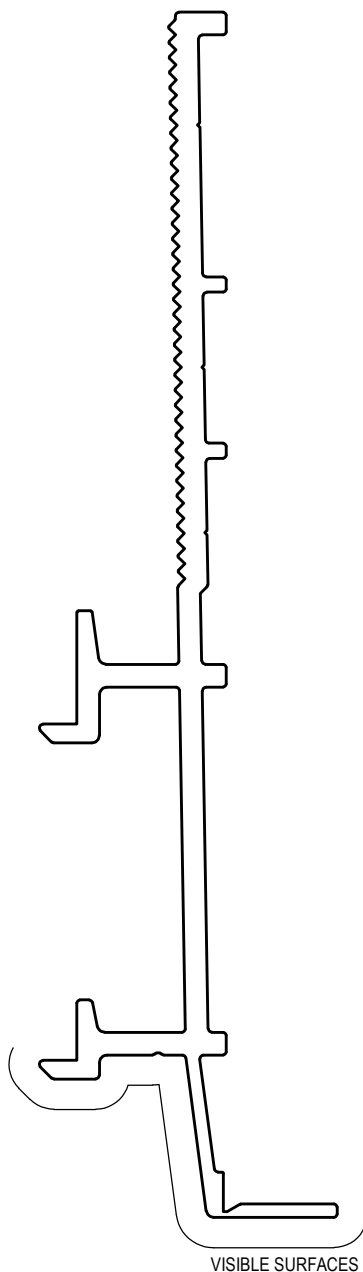
ECO134**
225mm HEAVY DUTY
EXTENDABLE SUB
SILL BASE

Mass. 2.096 kg/m
Anod Per. 539
Paint Per. 100

** REFERS TO NON STOCK ITEM.
CHECK WITH YOUR NEAREST ALSPEC
BRANCH FOR AVAILABILITY.

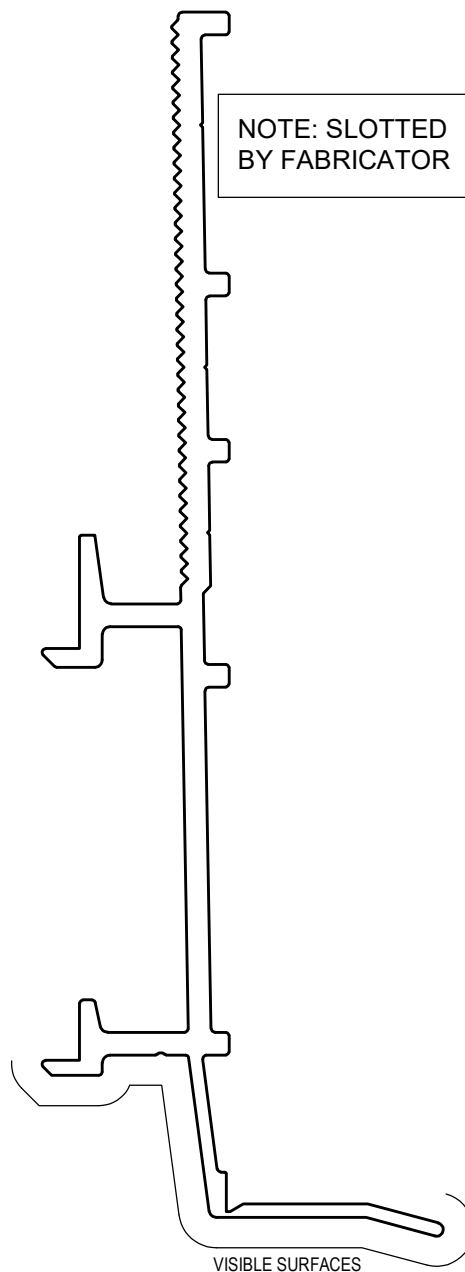
ECO139S**
225mm ALT. EXTENDABLE
SLOTTED SUB SILL FRONT

Mass. 1.968 kg/m
Anod Per. 525
Paint Per. 100

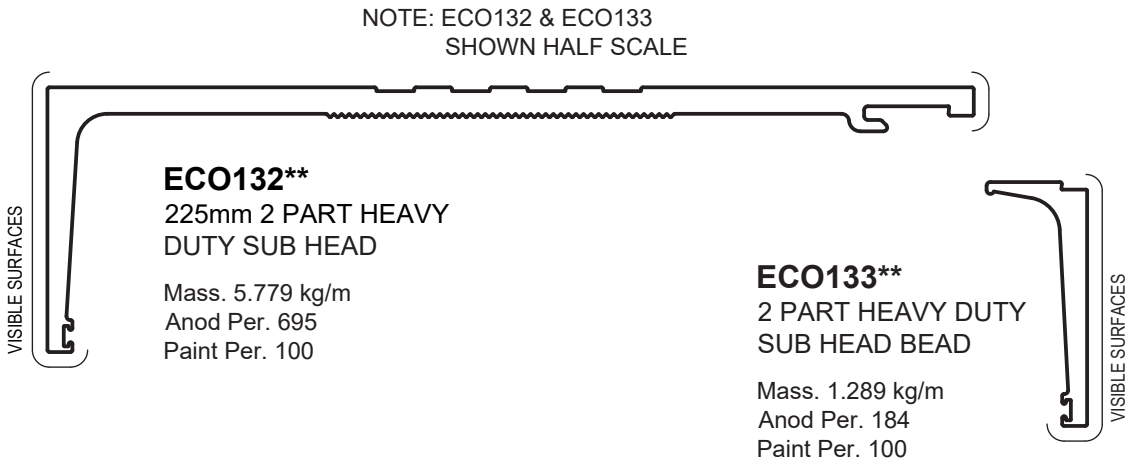


ECO509**
225mm EXTENDABLE
UNSLOTTED SUB SILL
FRONT (WIDE POCKET)

Mass. 2.042 kg/m
Anod Per. 552
Paint Per. 100



** REFERS TO NON STOCK ITEM.
CHECK WITH YOUR NEAREST ALSPEC
BRANCH FOR AVAILABILITY.



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
	9mm	PVC	1313076	GR50 GLAZING WEDGE (GREEN) (9mm GAP) PVC x 100m ROLL

6. Hardware & Components

Backing Gaskets

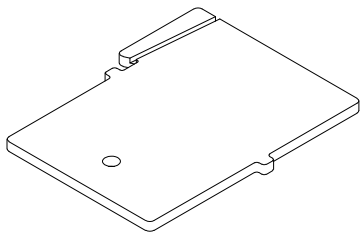
IMAGE	TO SUIT GAP	MATERIAL	PART #	DESCRIPTION
	2mm	PVC	1313052	GR36 BACKING GASKET - PUSH IN (2mm GAP) PVC x 200m ROLL
		S/PRENE	1313053	GR36S BACKING GASKET - PUSH IN (2mm GAP) S/PRENE x 200m ROLL
	2mm	PVC	1313079	CE36 CO-EXT BACKING GASKET (2mm GAP) PVC x 100m ROLL
		S/PRENE	1313080	CE36S CO-EXT BACKING 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
	8.5mm	S/PRENE	1313078	CE52S CO-EXT BACKING GASKET (8.5mm GAP) x 100m ROLL

Seals

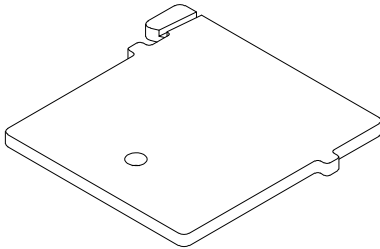
IMAGE	PART #	FINISH	DESCRIPTION
	1378190	BLACK (034)	MS5 HIGH PERF V SEAL x 100m
	1376848	BLACK (034)	WS48 PVC SEAL x 500m
	1376402	BLACK (034)	DB1 DOOR STOP RUBBER x 100m
	1376079	BLACK (034)	CE308 CO-EXT DOOR BUFFER S/PRENE x 200m ROLL
	1376300	BLACK (034)	HB1 BULB SEAL x 100m

Frame Joint Gaskets

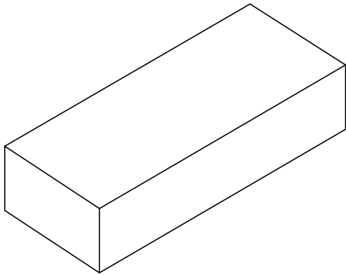
PART #	DESCRIPTION	FINISH
1385521	FJG60 FRAME JOINT GASKET PVC FOAM TAPE 60 x 1.6mm 36.5m	BLACK (034)



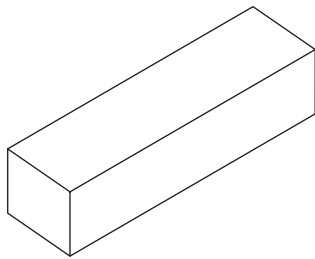
HE003 POCKET STOP x 50	
PART	1378196
FINISH	NOT SPECIFIED (099)
QTY	BAG



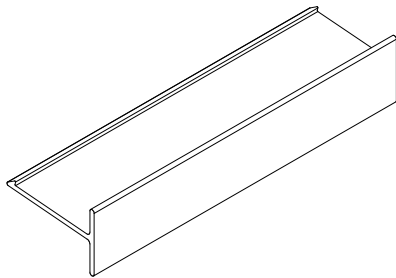
HE004 POCKET STOP x 50	
PART	1378197
FINISH	NOT SPECIFIED (099)
QTY	BAG



SETTING BLOCK 17 x 30 x 75mm BAG OF 50	
PART	1376734
FINISH	BLACK (034)
QTY	BAG OF 50



SETTING BLOCK 17 x 20 x 75mm BAG OF 50	
PART	1376737
FINISH	BLACK (034)
QTY	BAG OF 50



ECO106 MULLION CLIP x 150mm 6106 T6	
PART	1378140
FINISH	MILL (001)
QTY	EACH

Fasteners

SCREWS			
PART #	HEAD	DESCRIPTION	LOCATION
1382687	SQUARE #2	12g x 2 1/2 (63mm) 304SS SQ #3 CSK S/TAP SCREW x 500	MULLIONS
1382075	PHILLIPS #2	12g x 2 1/2 (63mm) 304SS PH CSK S/TAP SCREW x 500	
1382684	SQUARE #2	12g x 1 1/2 (38mm) 304SS SQ #3 PAN S/TAP SCREW x 100	MAIN FRAME
1382071	PHILLIPS #2	12g x 1 1/2 (38mm) 304SS PH PAN S/TAP SCREW x 100	

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

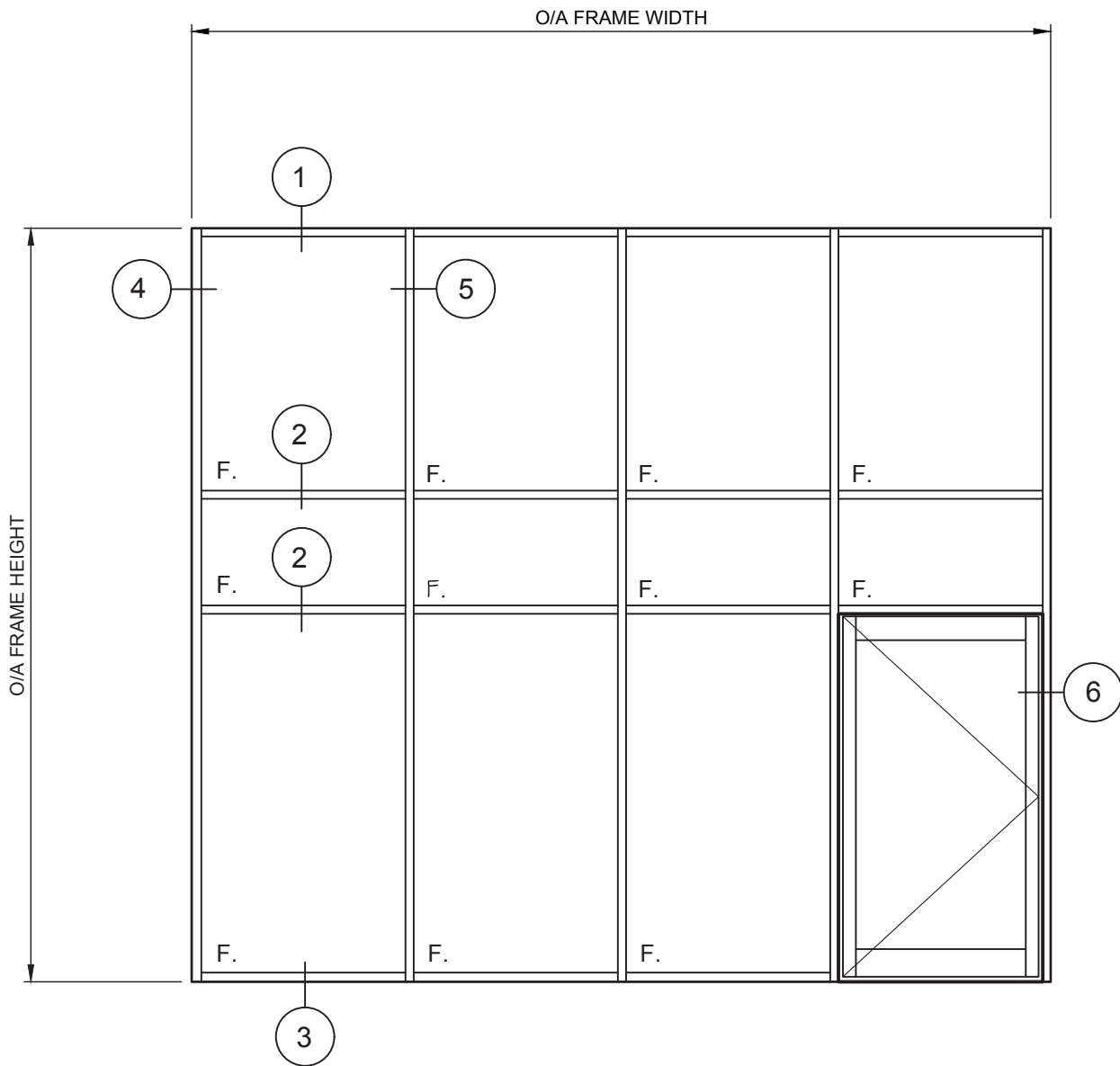
*For more information on silicones,
please refer to Alspec Silicone Brochure.



6. Hardware & Components

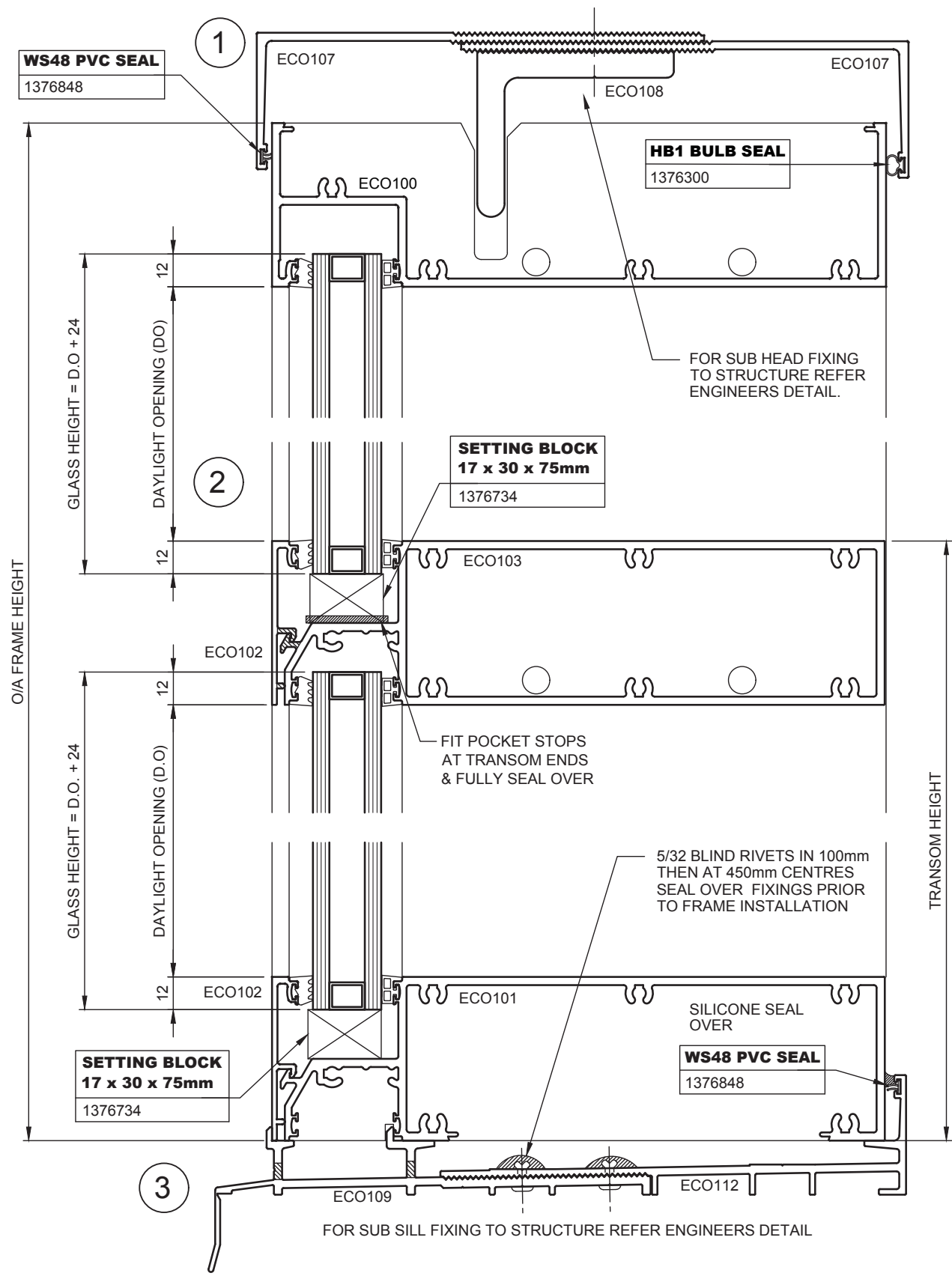
Silicone Product Codes

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



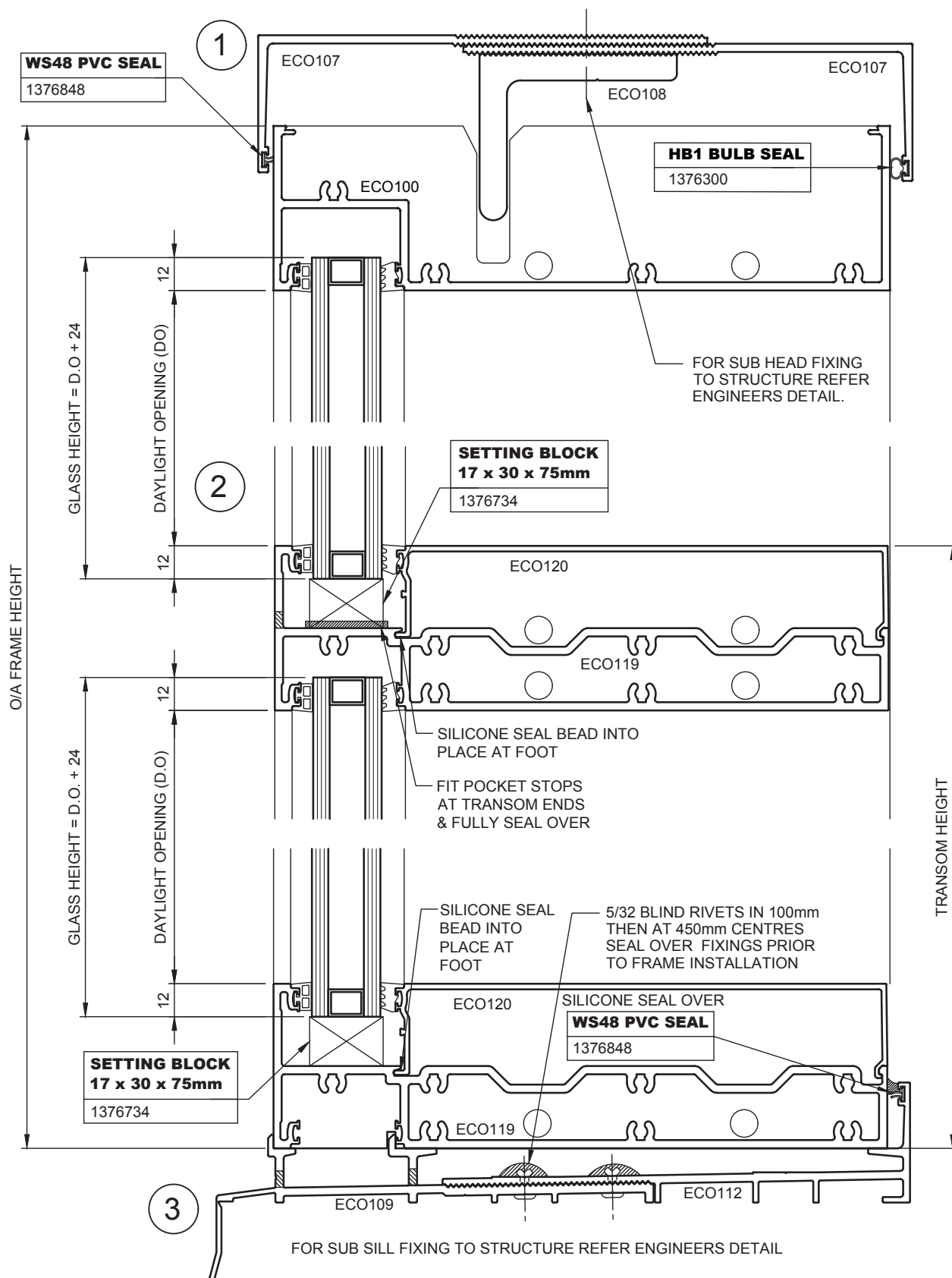
8. Typical Details

Head, Sill, Transom - Double Glazed - External



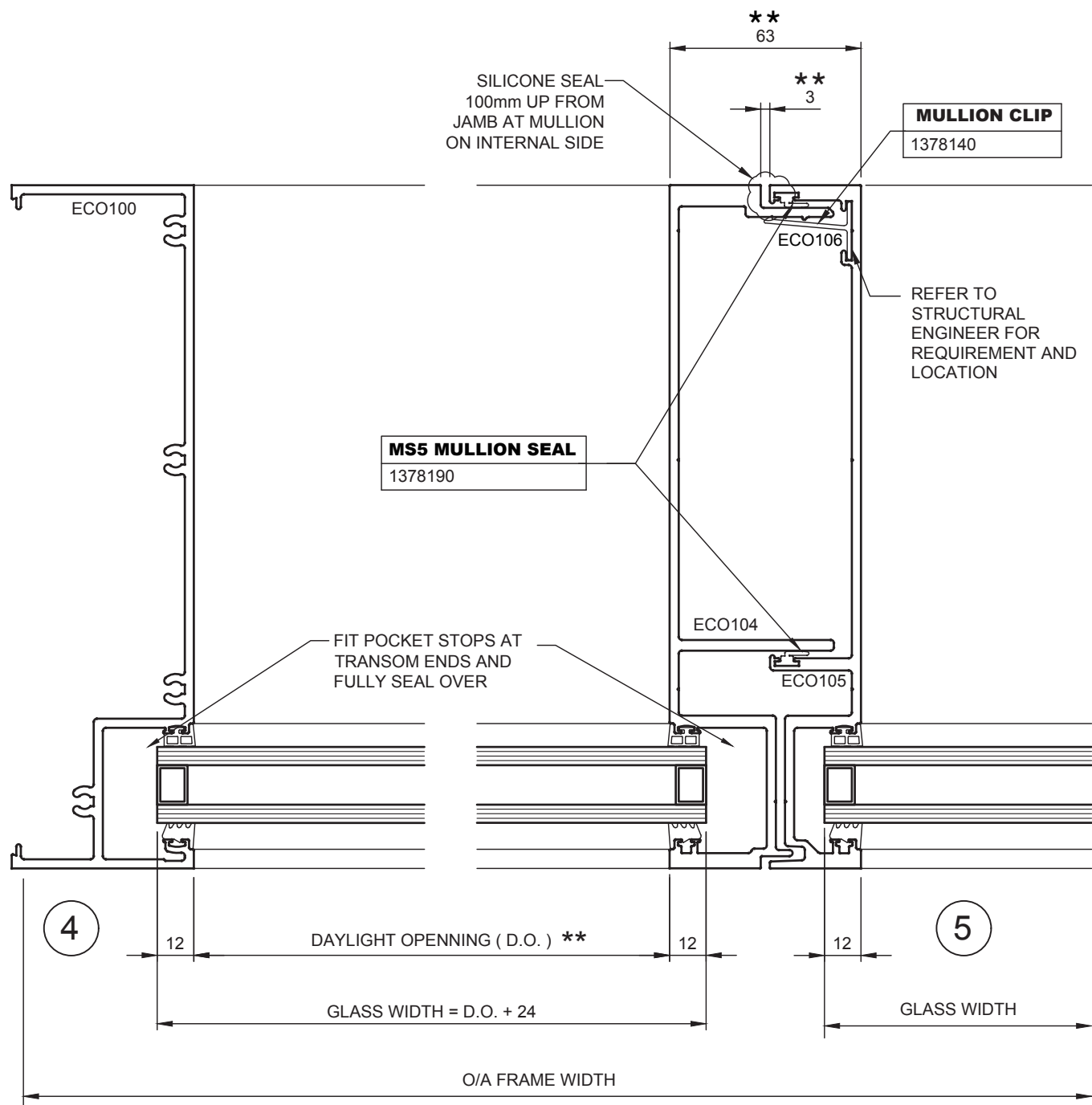
8. Typical Details

Head, Sill, Transom - Double Glazed - Internal



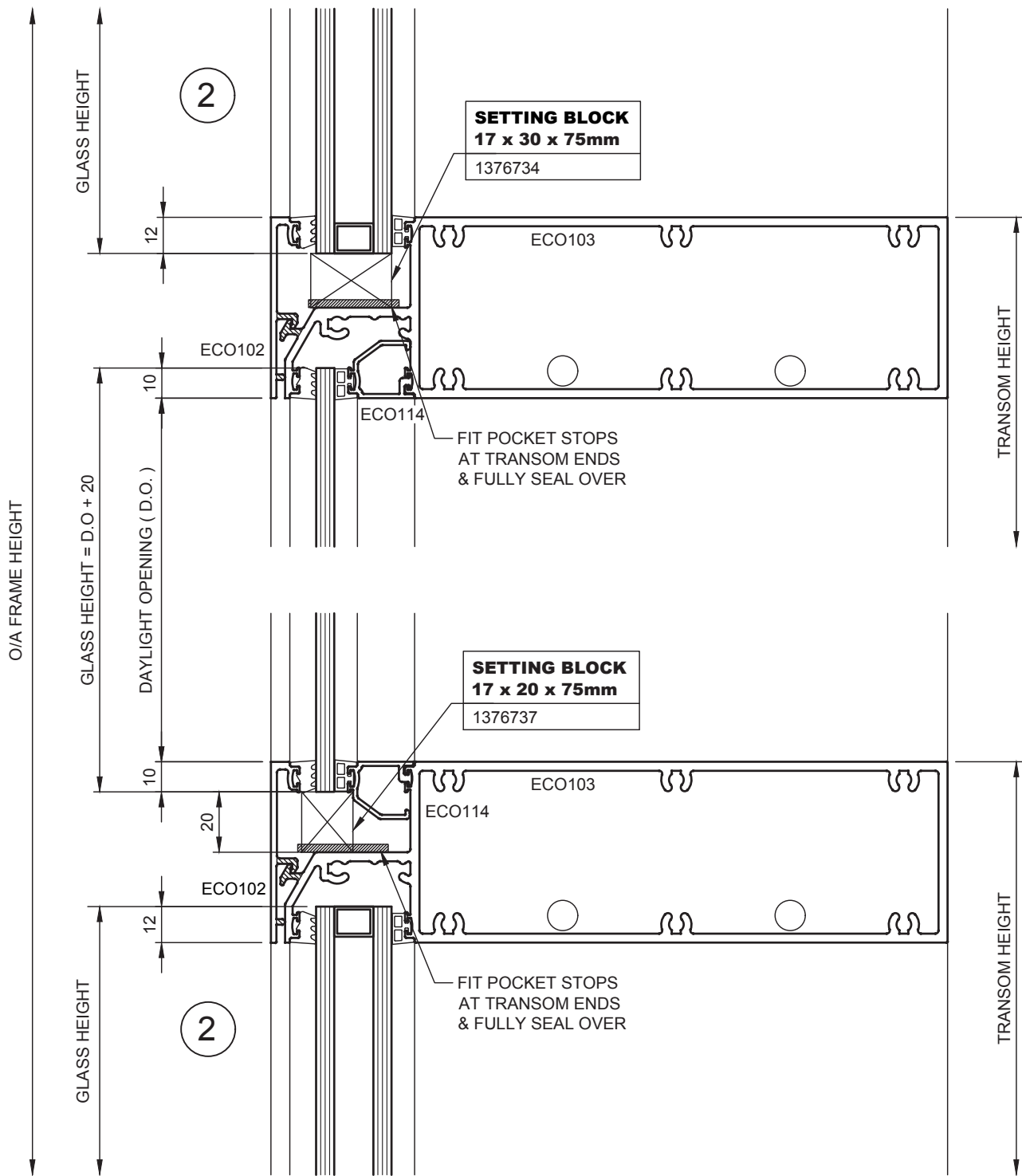
8. Typical Details

Jamb & Split Mullion - Double Glazed



8. Typical Details

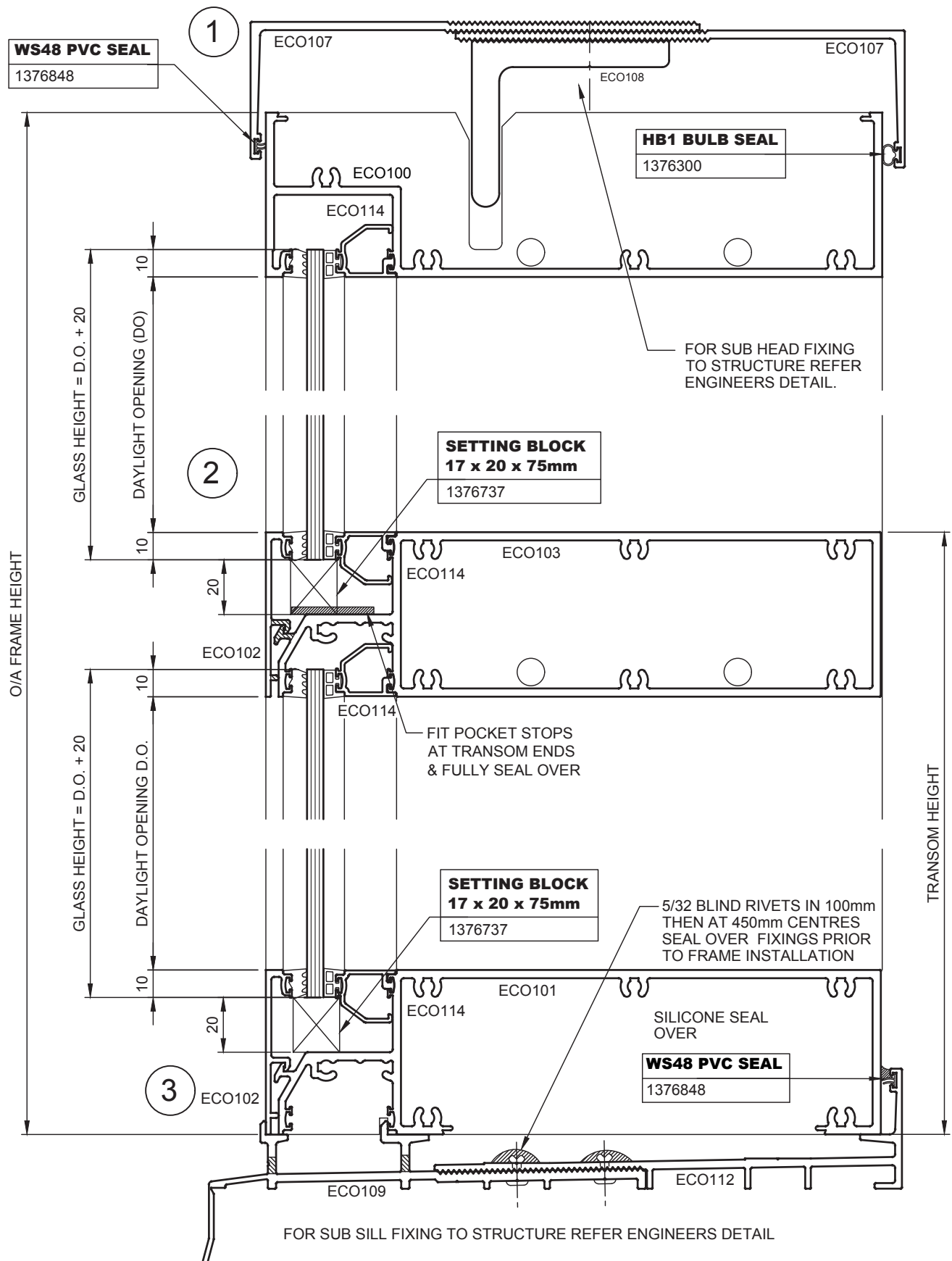
Transom - Double & Single Glazed





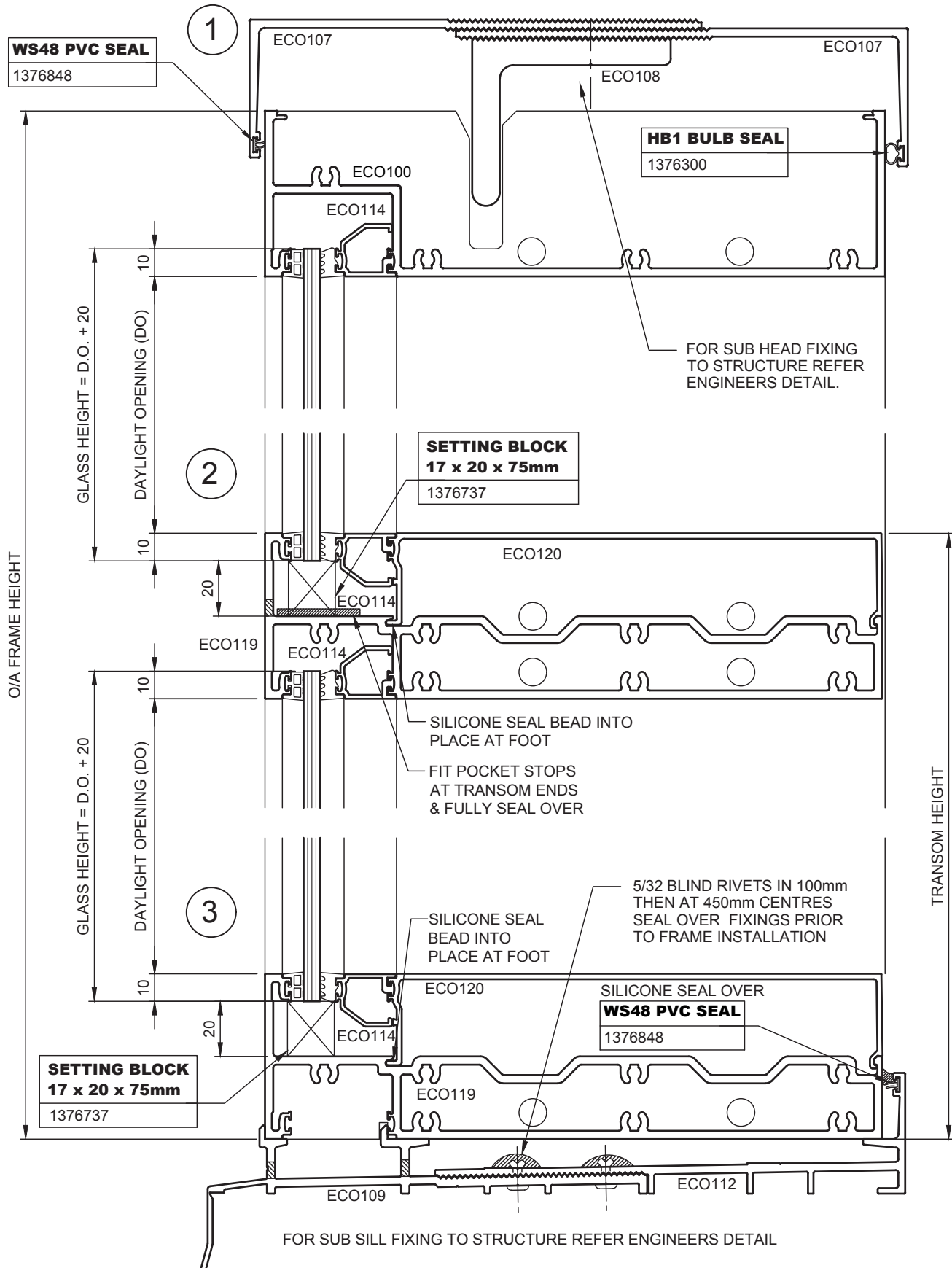
8. Typical Details

Head, Sill, Transom - Single Glazed - External



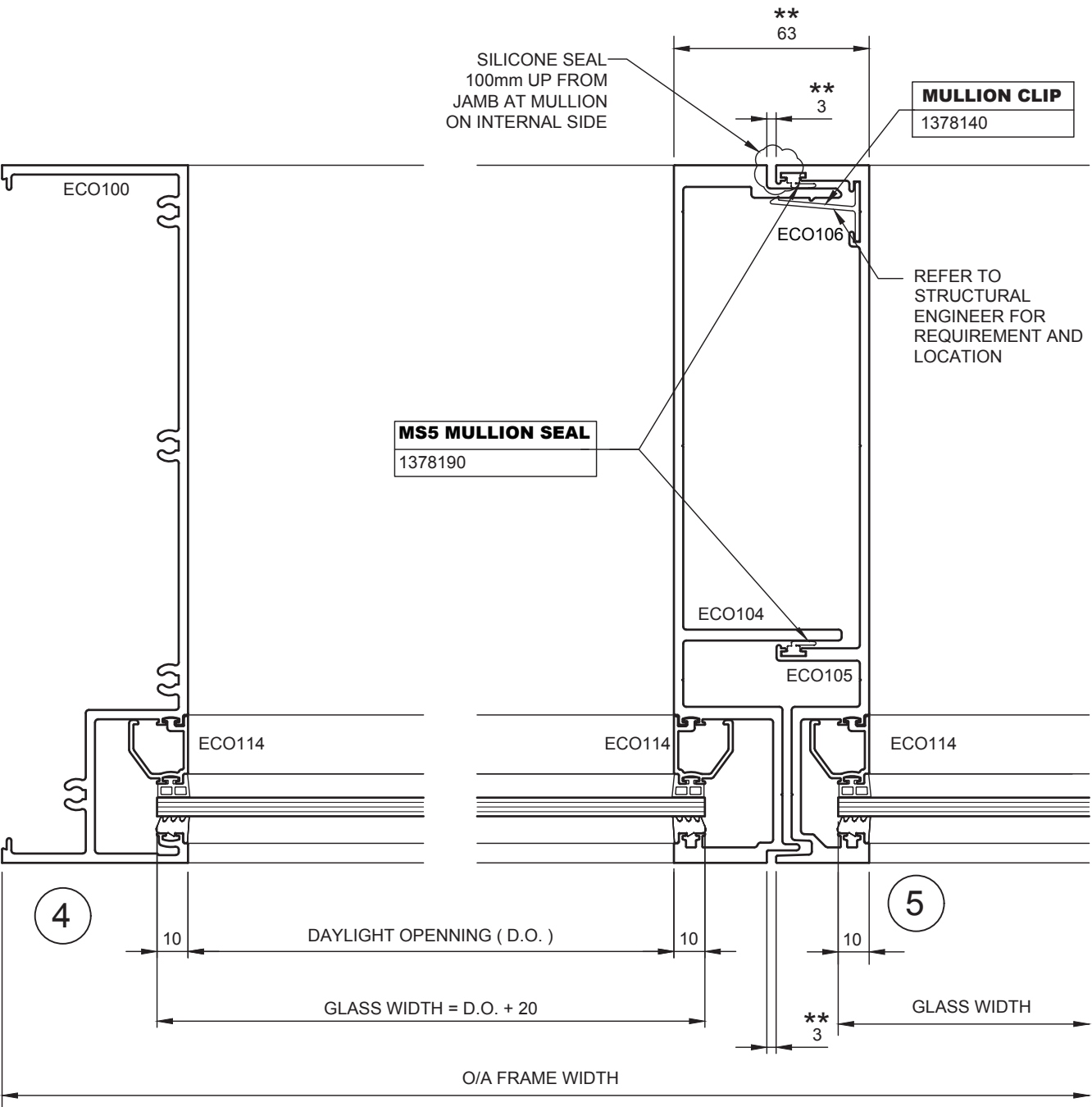
8. Typical Details

Head, Sill, Transom - Single Glazed - Internal



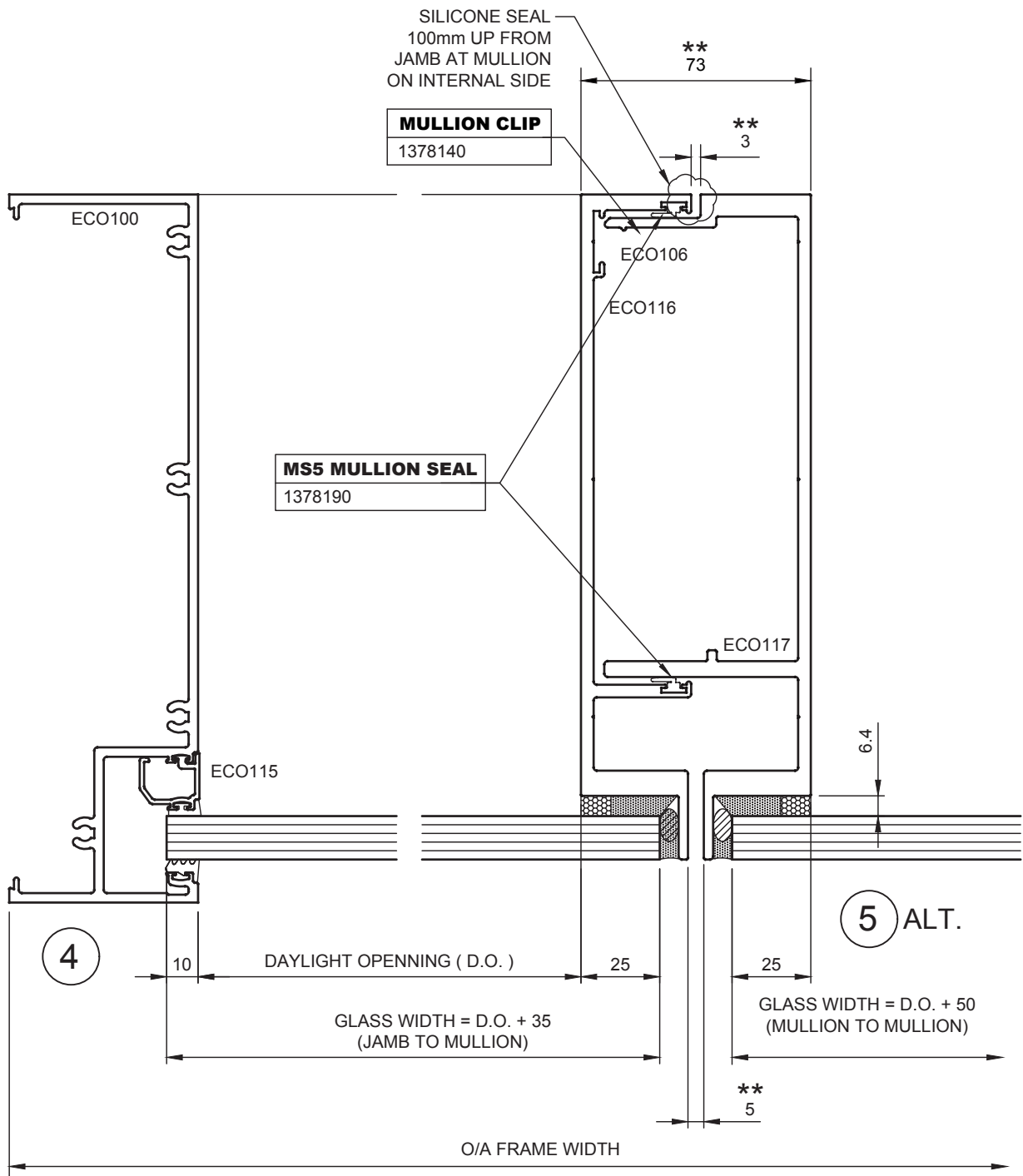
8. Typical Details

Jamb & Split Mullion - Single Glazed



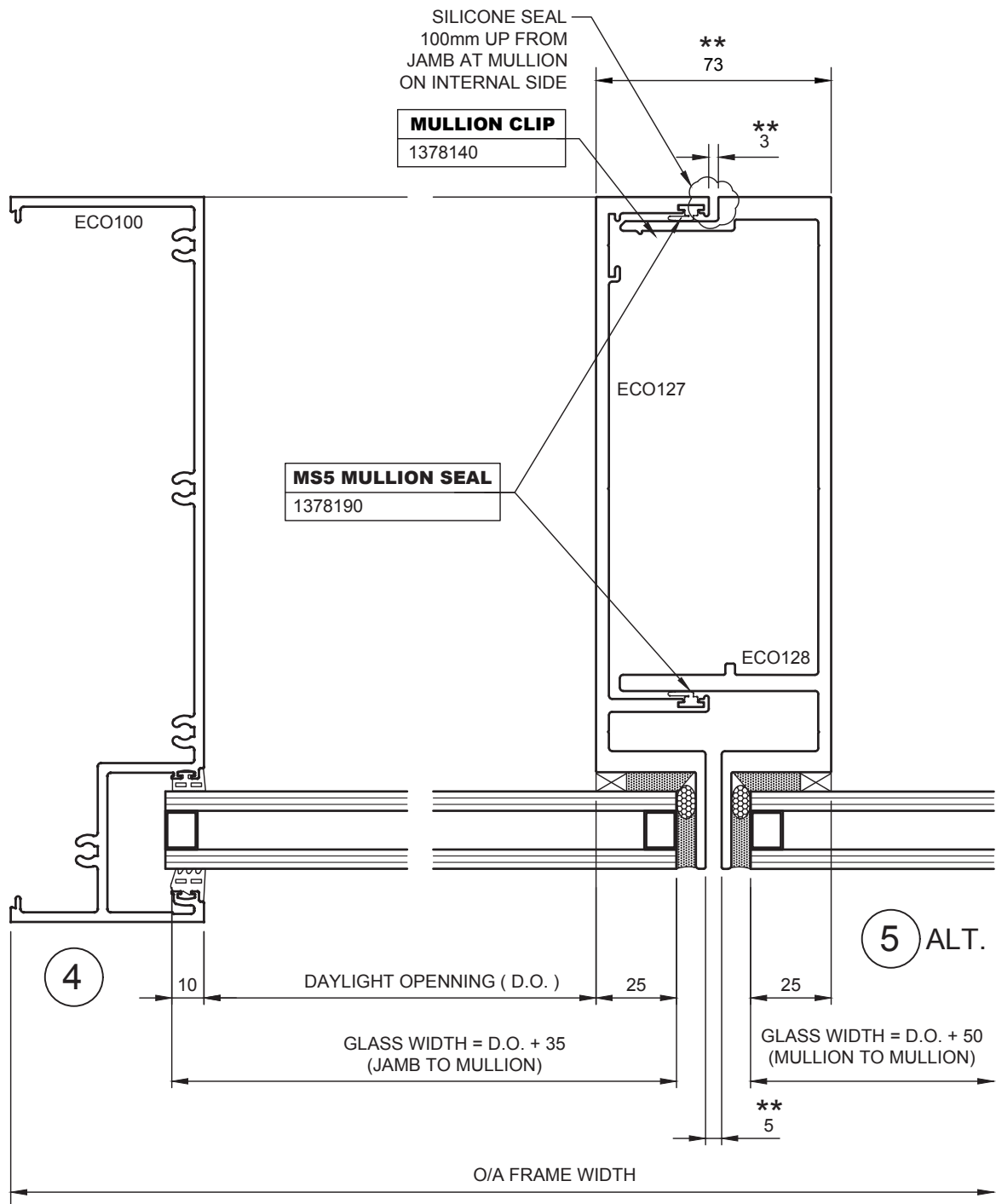
8. Typical Details

Jamb & Split Mullion - Single Glazed - Structurally Glazed



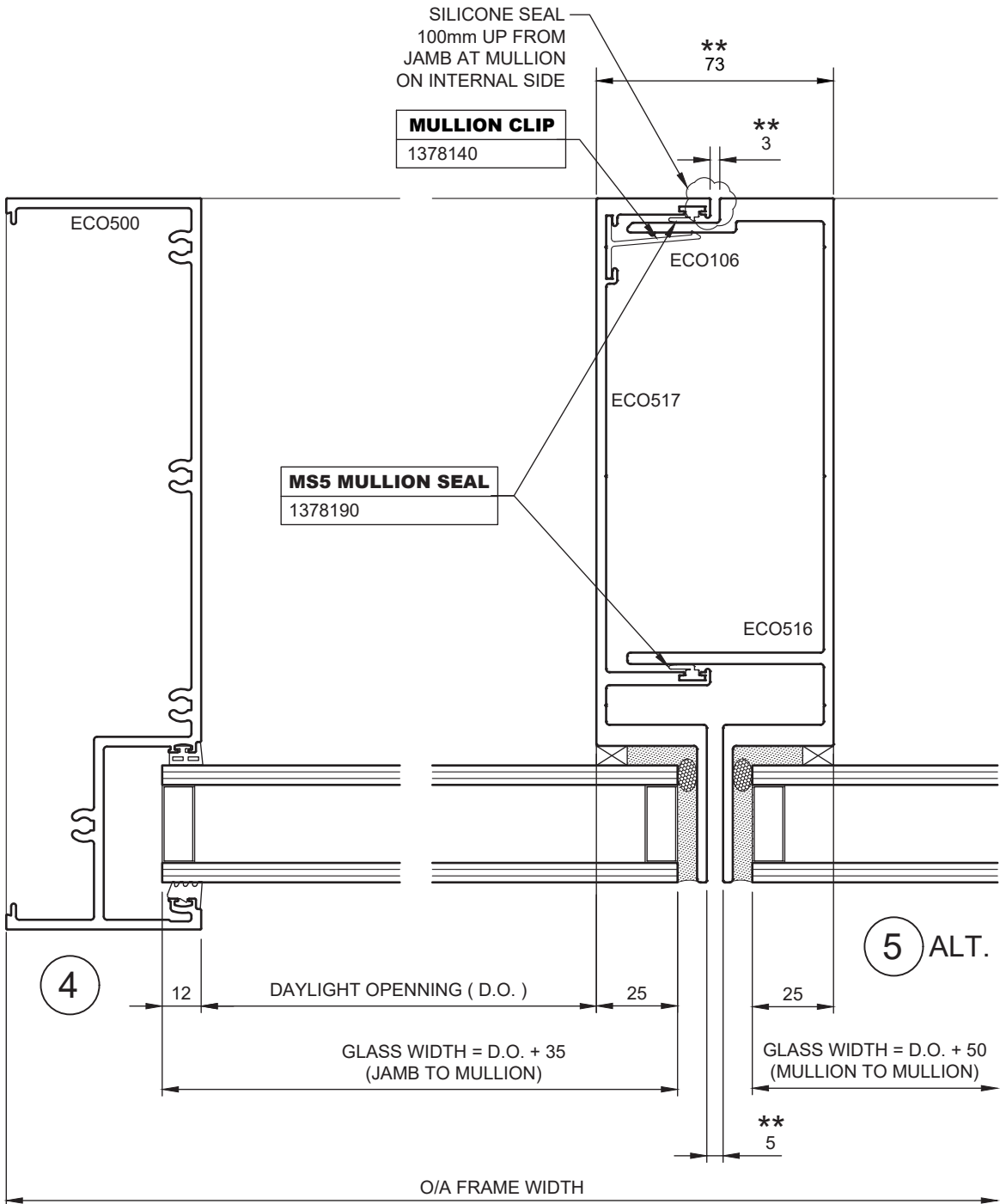
****** NOMINAL DIMENSION ONLY. MAY VARY DUE TO PROJECT REQUIREMENTS
REFER TO SILICONE MANUFACTURER FOR STRUCURAL SILICONE REQUIREMENTS

Jamb & Split Mullion - Double Glazed - Structurally Glazed



****** NOMINAL DIMENSION ONLY. MAY VARY DUE TO PROJECT REQUIREMENTS
REFER TO SILICONE MANUFACTURER FOR STRUCURAL SILICONE REQUIREMENTS

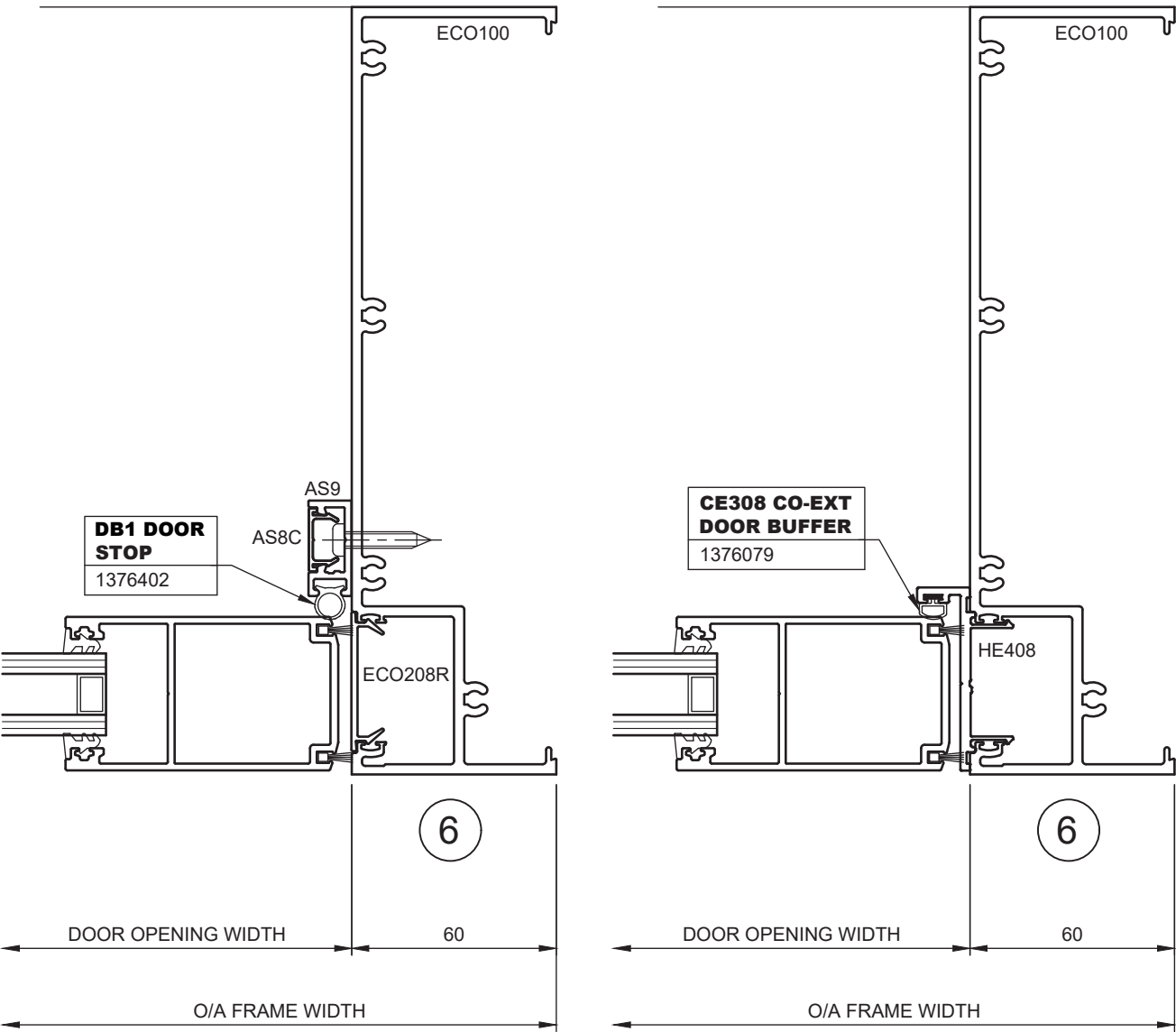
Jamb & Split Mullion - Wide Pocket - Double Glazed - Structurally Glazed



** NOMINAL DIMENSION ONLY. MAY VARY DUE TO PROJECT REQUIREMENTS
REFER TO SILICONE MANUFACTURER FOR STRUCURAL SILICONE REQUIREMENTS

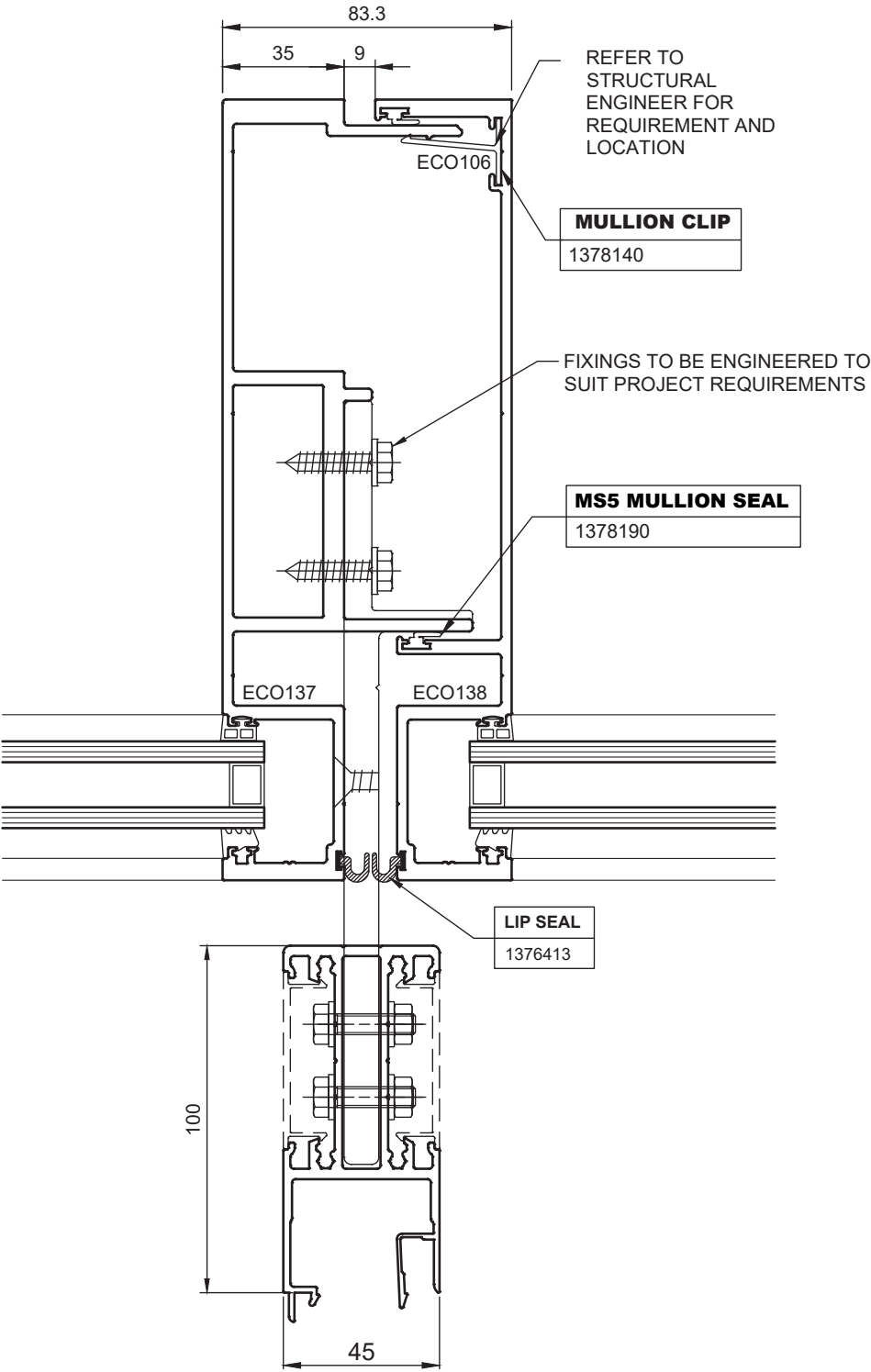
8. Typical Details

45mm Door Jamb

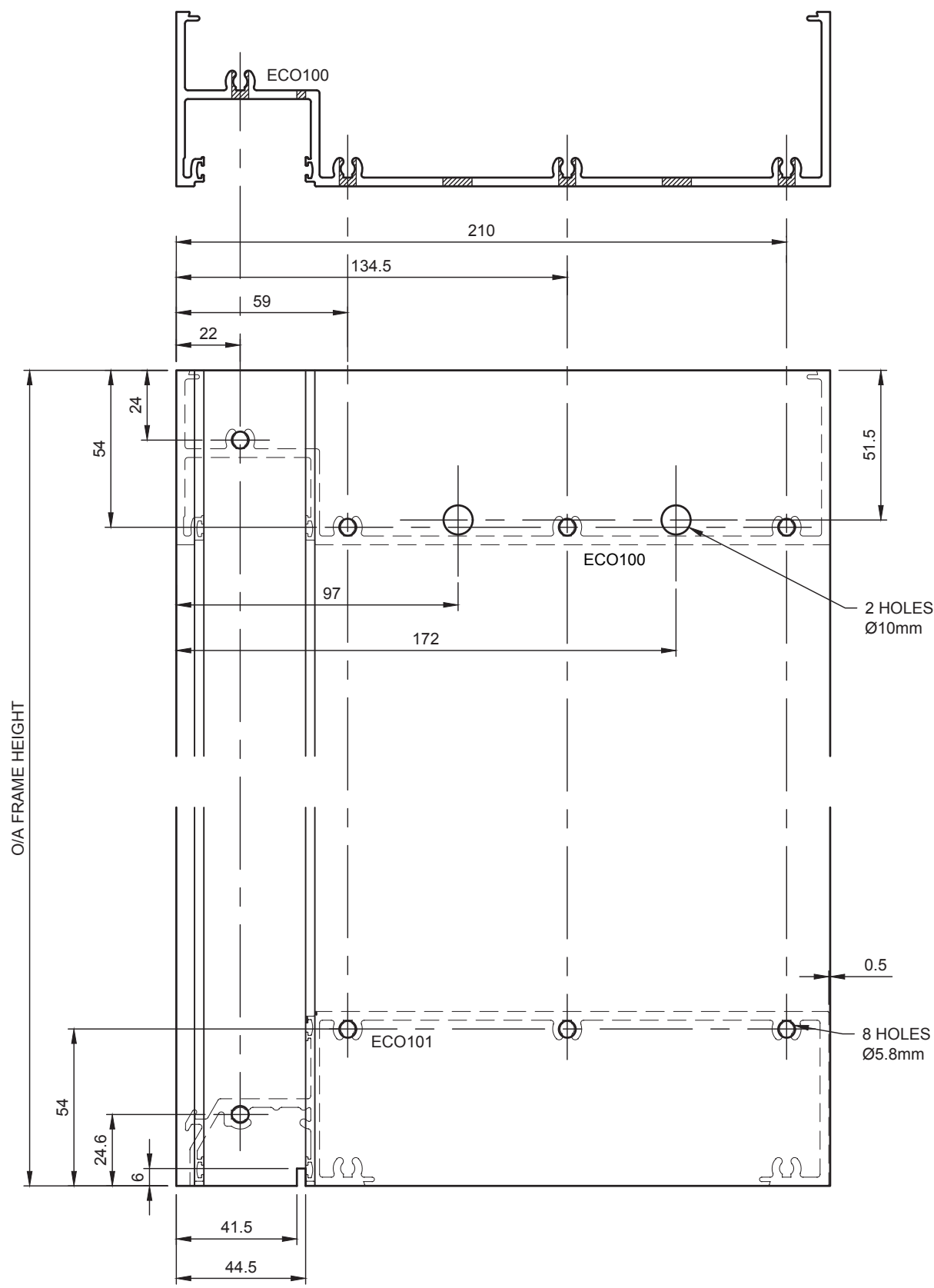


8. Typical Details

Vertical Blade Assembly

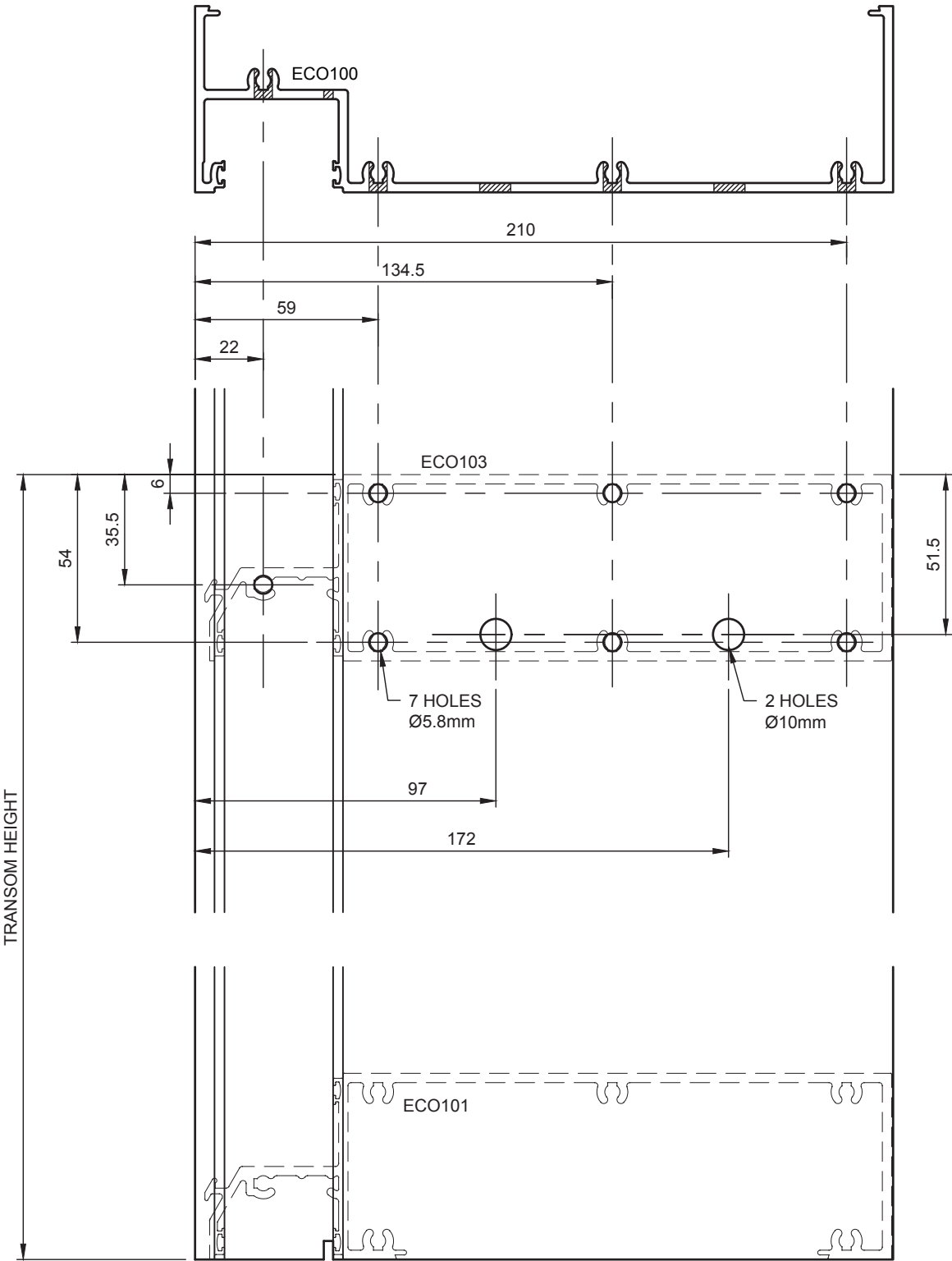


Typical Jamb Preparation



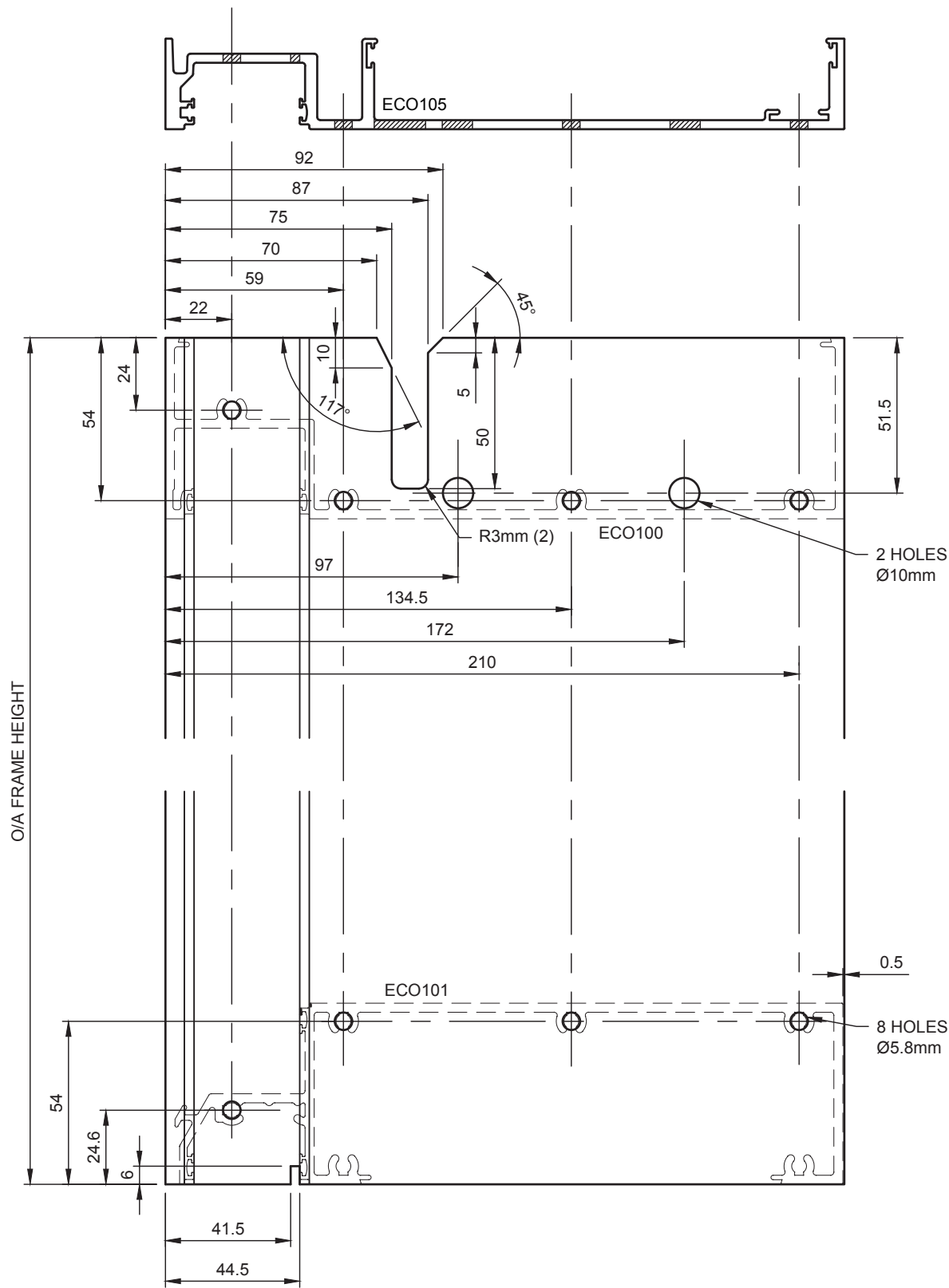
L.H. DRAWN
R.H. OPPOSITE

Typical Jamb Preparation for Transoms



L.H. DRAWN
R.H. OPPOSITE

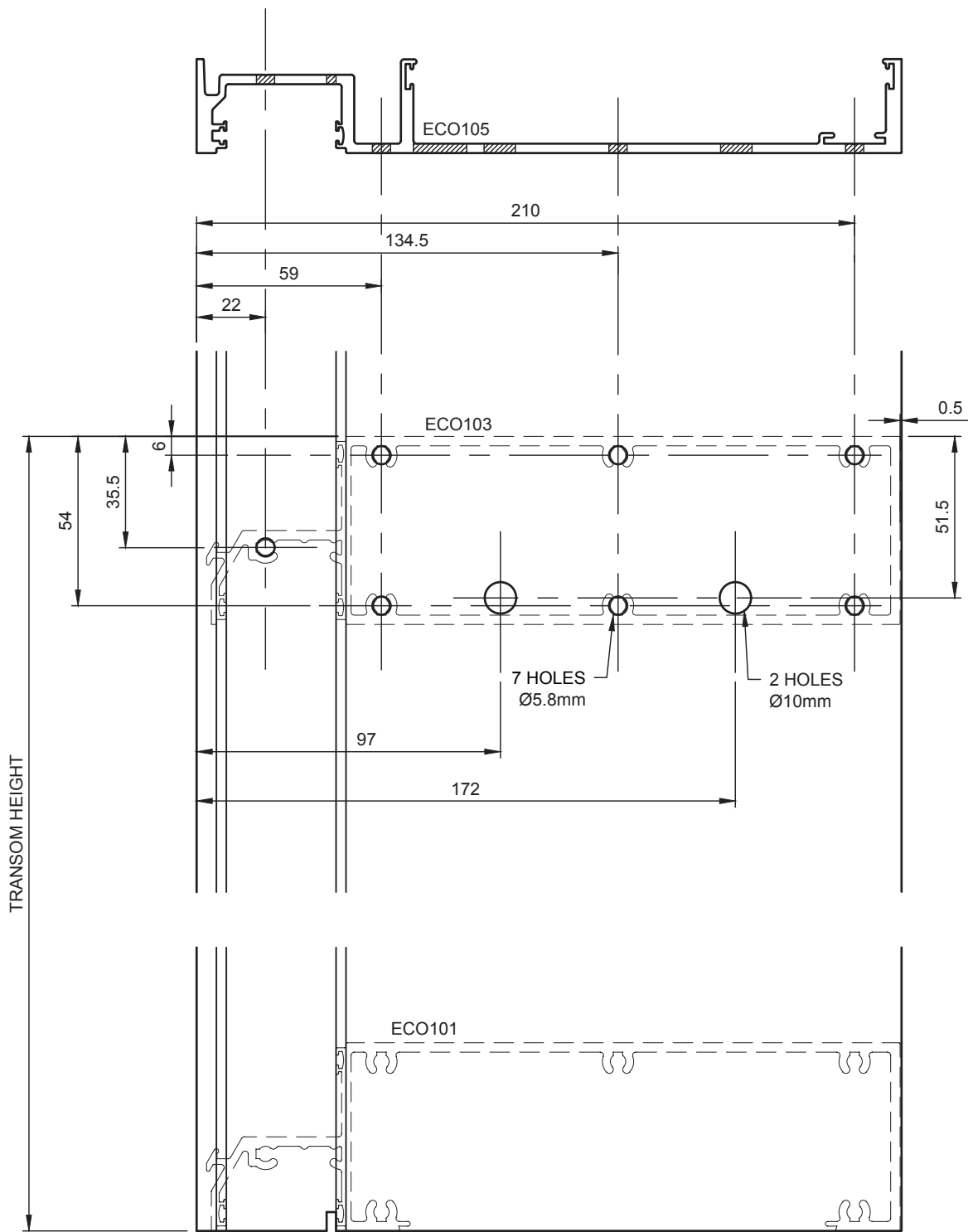
Typical Female Mullion Preparation



L.H. DRAWN
R.H. OPPOSITE

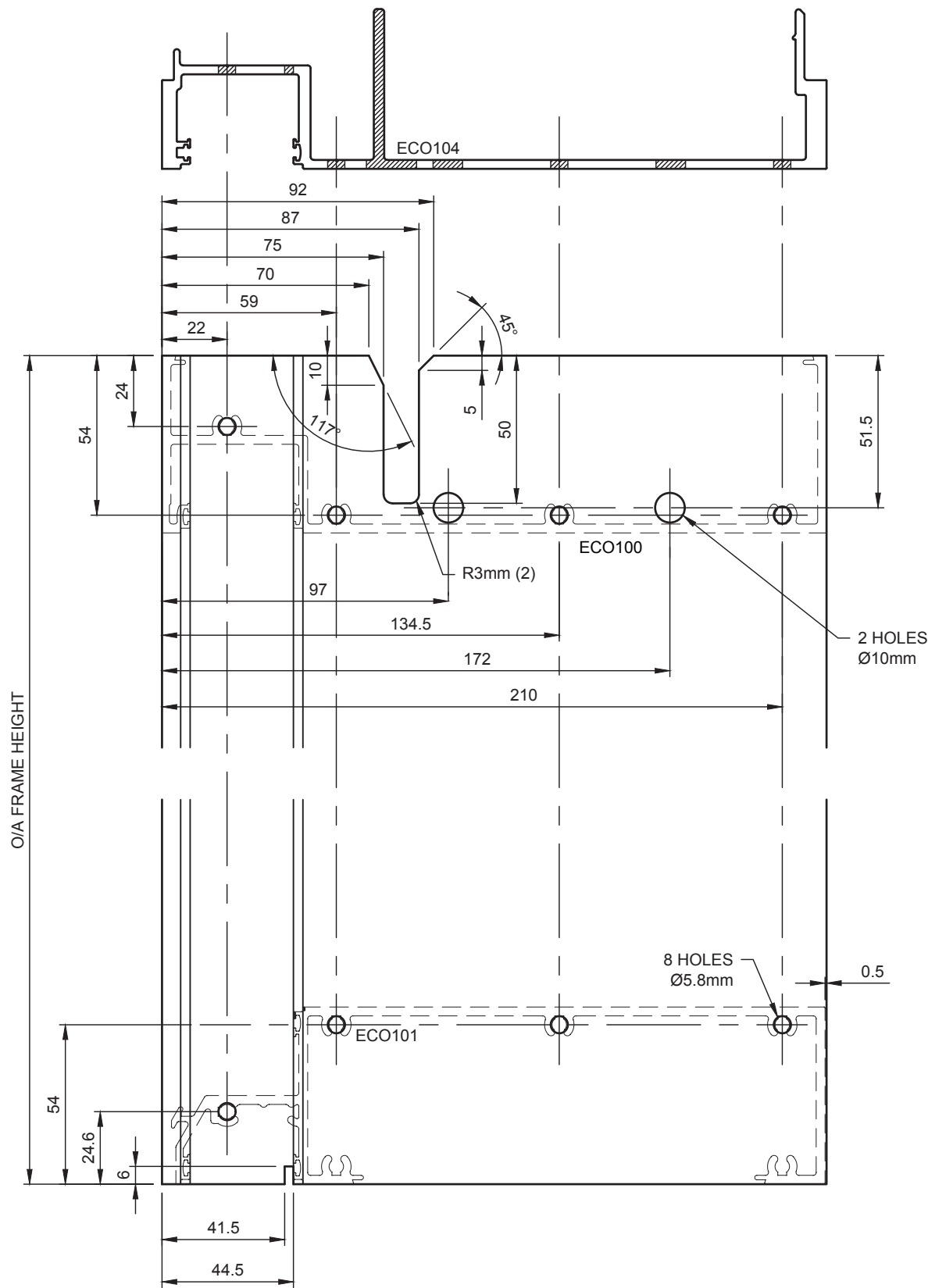
10. Manufacturing Details

Typical Female Mullion Preparation for Transoms



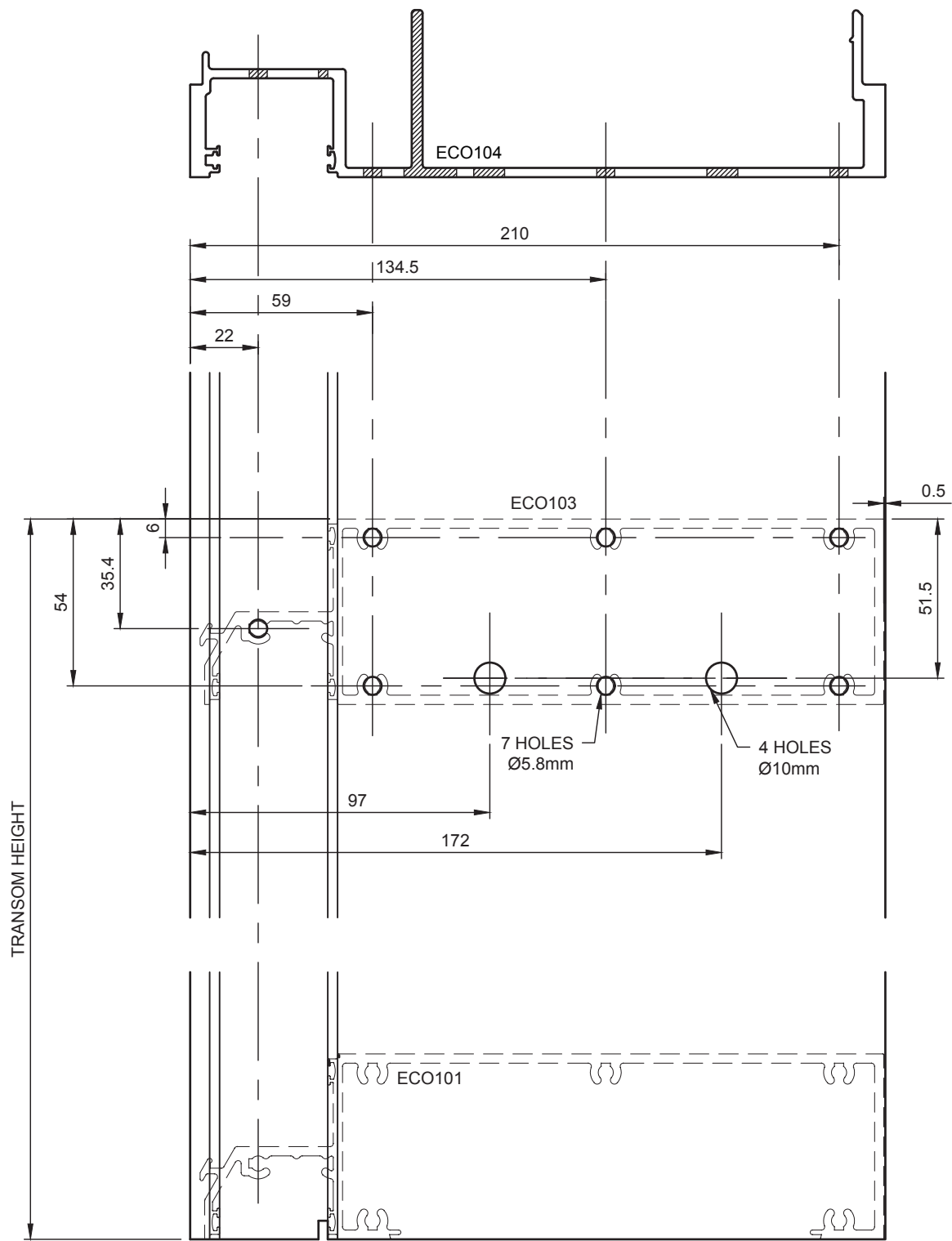
L.H. DRAWN
R.H. OPPOSITE

Typical Male Mullion Preparation - Internal Glaze



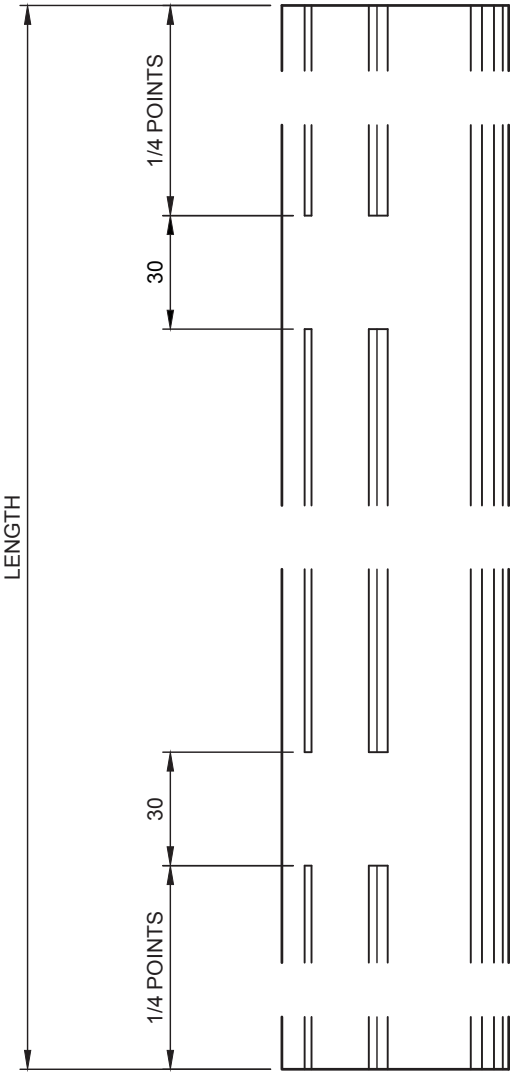
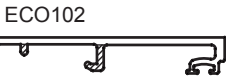
L.H. DRAWN
R.H. OPPOSITE

Typical Male Mullion Preparation for Transoms



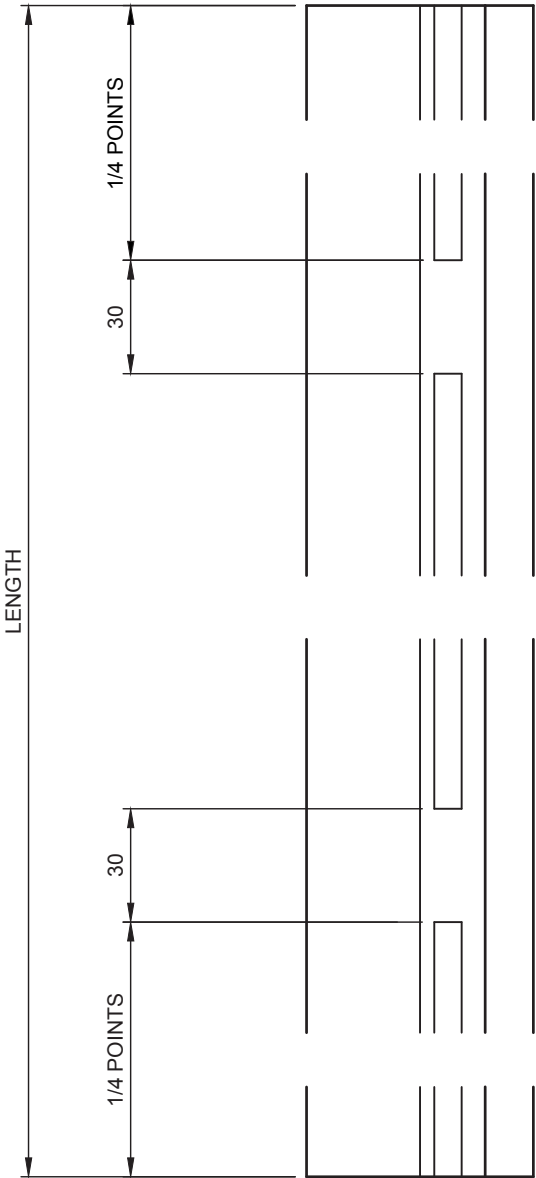
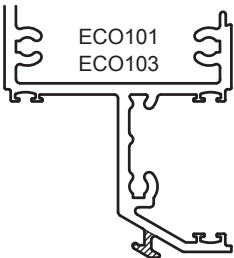
L.H. DRAWN
R.H. OPPOSITE

Face Glazing Bead Preparation - Transoms



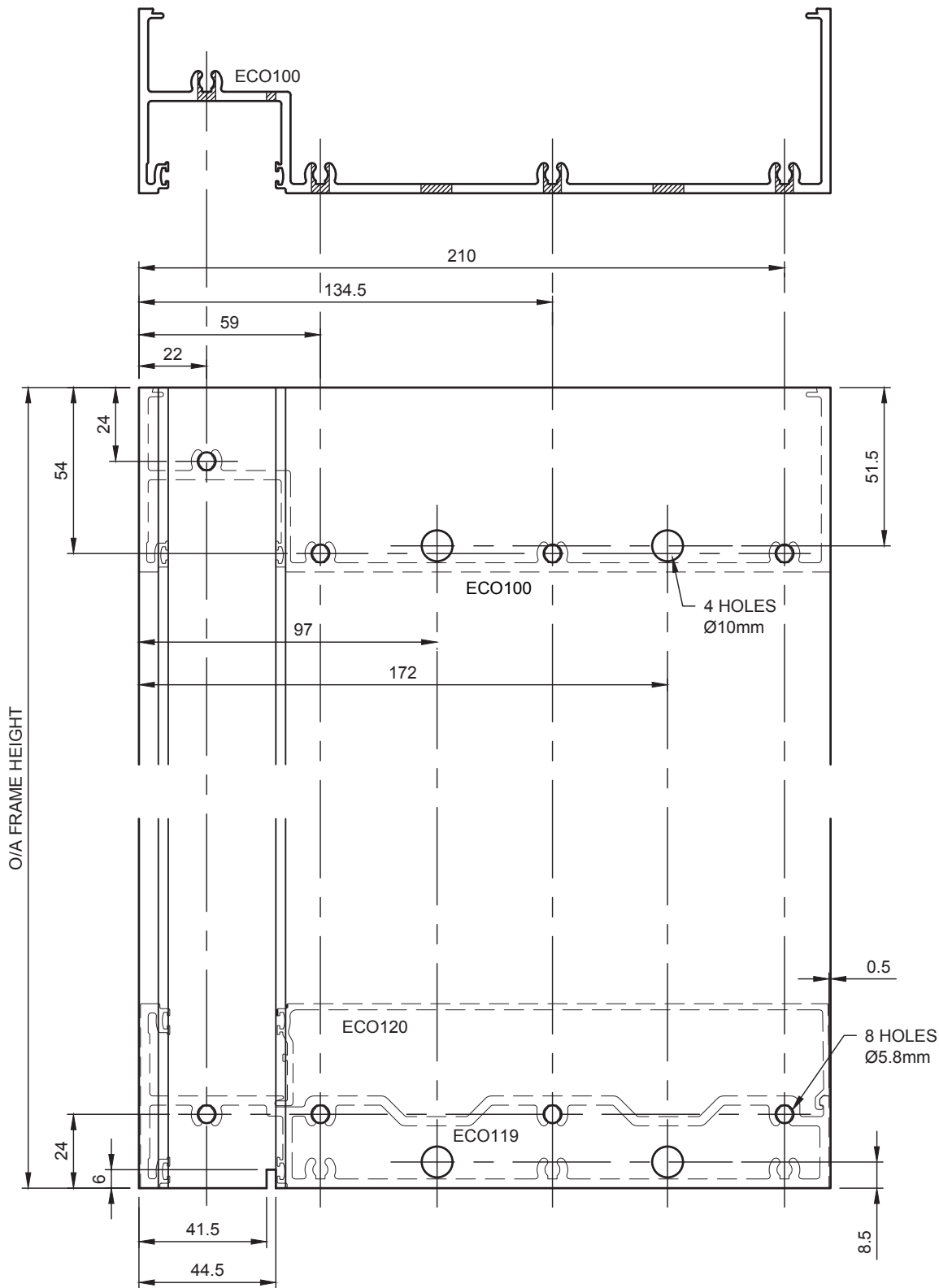
10. Manufacturing Details

Transom Drainage Preparation - Internal Glaze



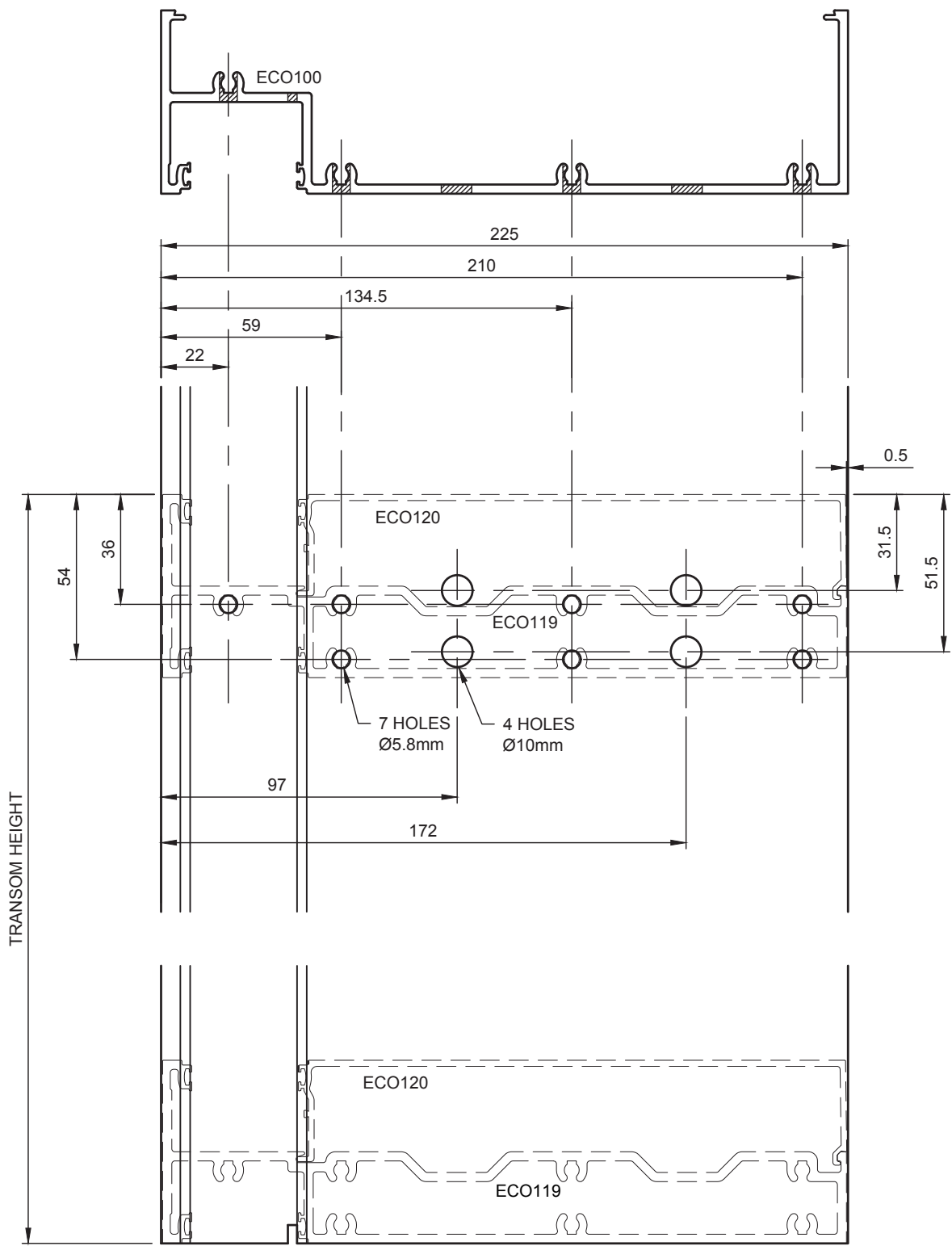
10. Manufacturing Details

Typical Jamb Preparation - Internal Glaze



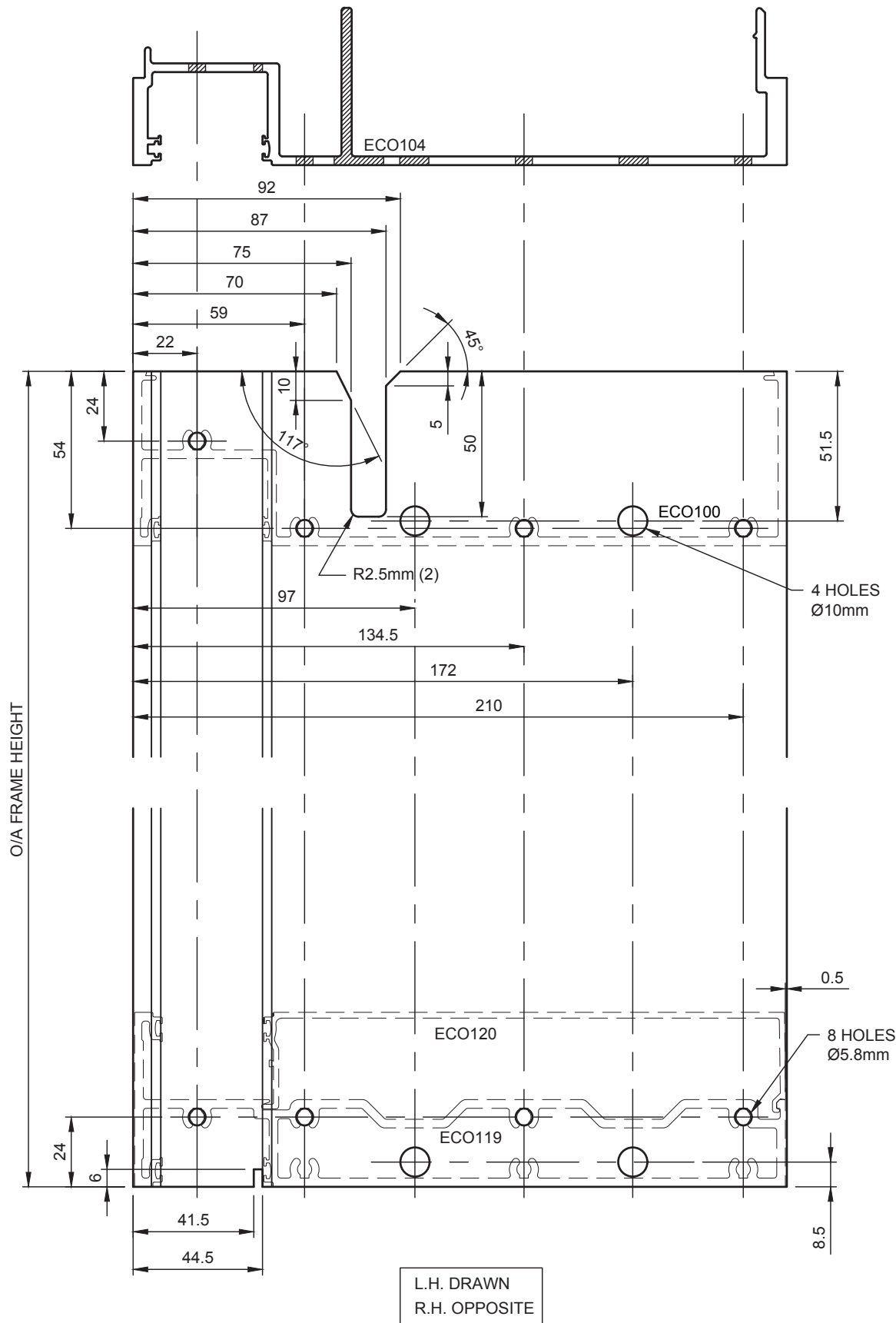
L.H. DRAWN
R.H. OPPOSITE

Typical Jamb Preparation for Transoms - Internal Glaze

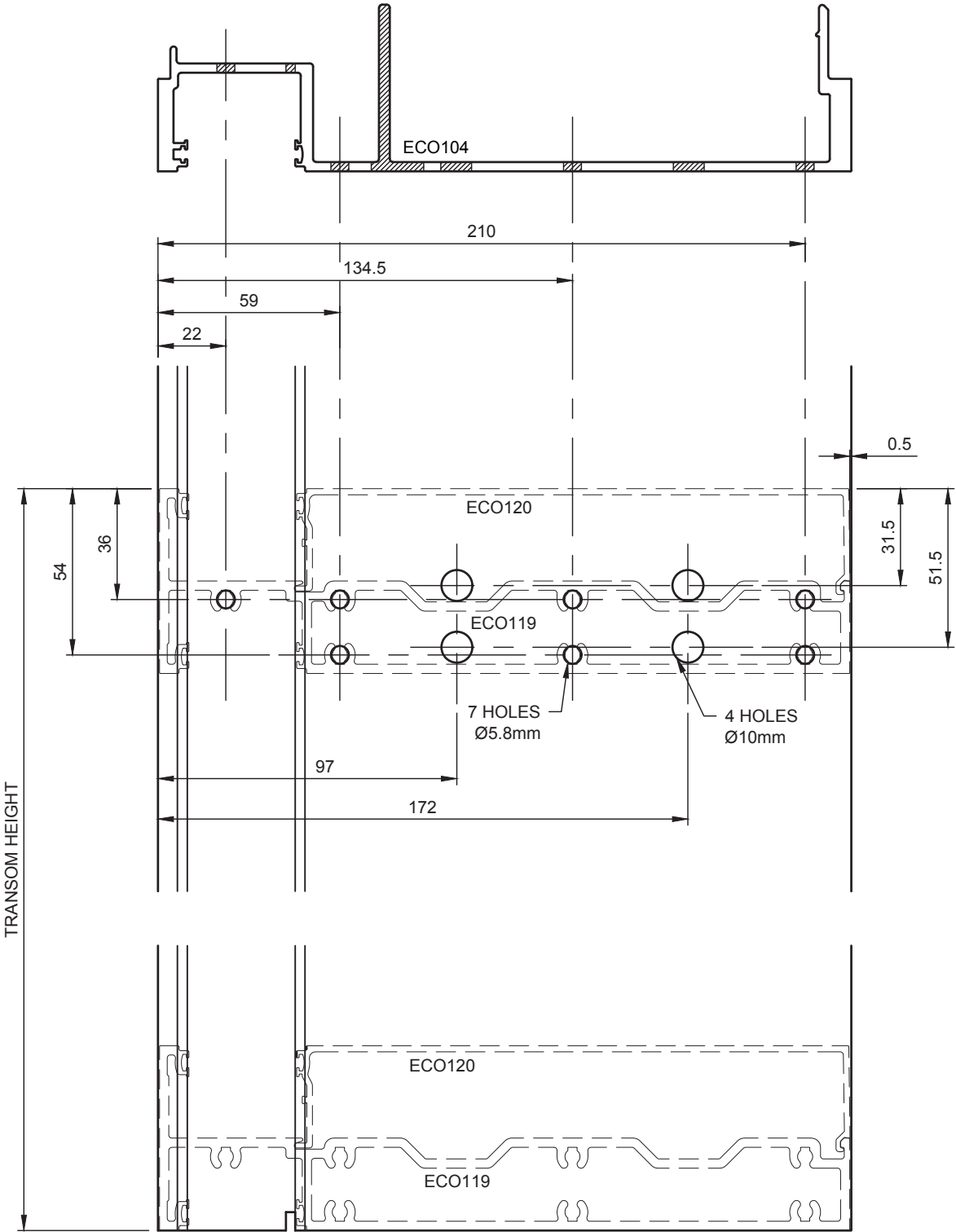


L.H. DRAWN
R.H. OPPOSITE

Typical Male Mullion Preparation - Internal Glaze

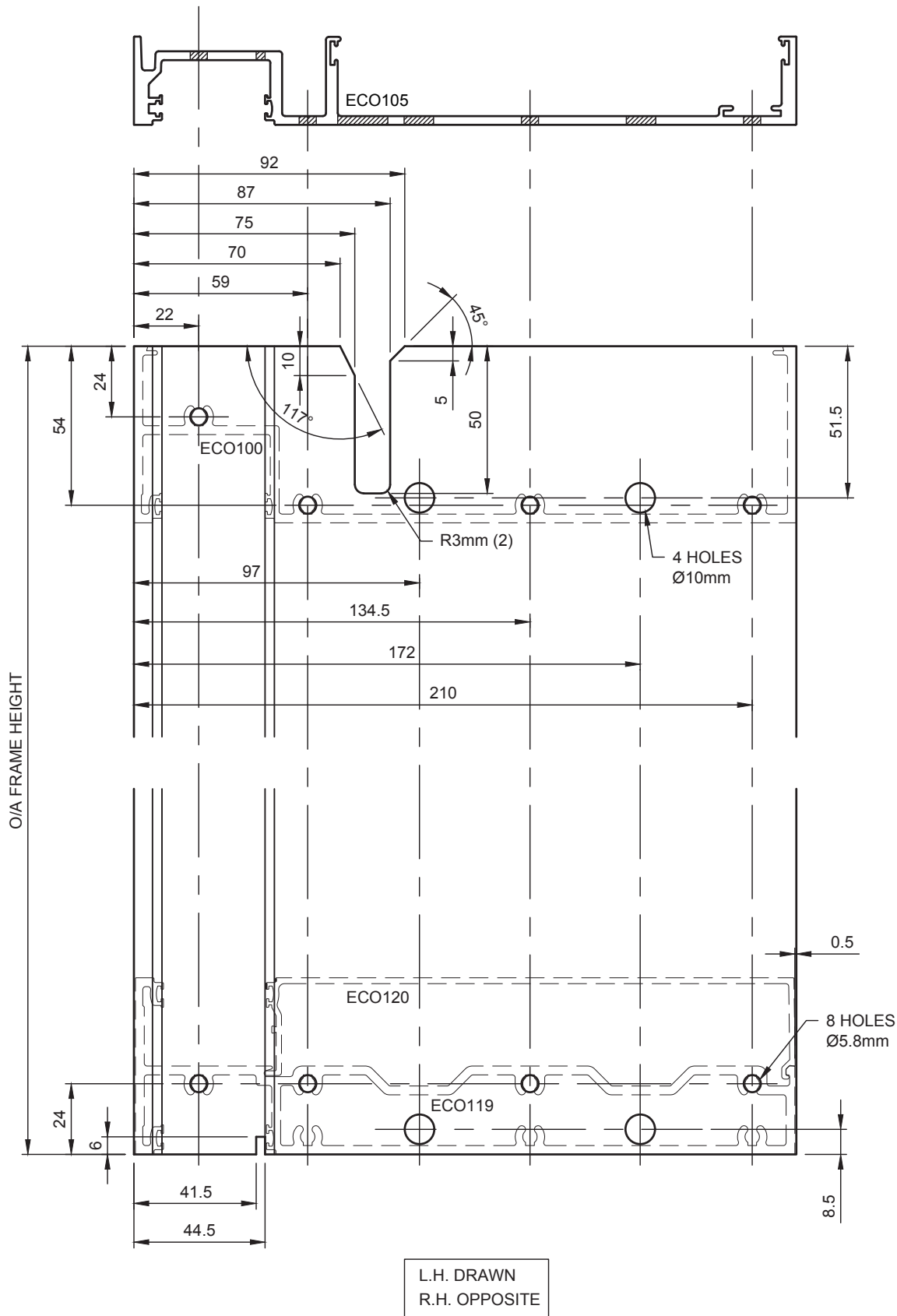


Typical Male Mullion Preparation for Transoms - Internal Glaze

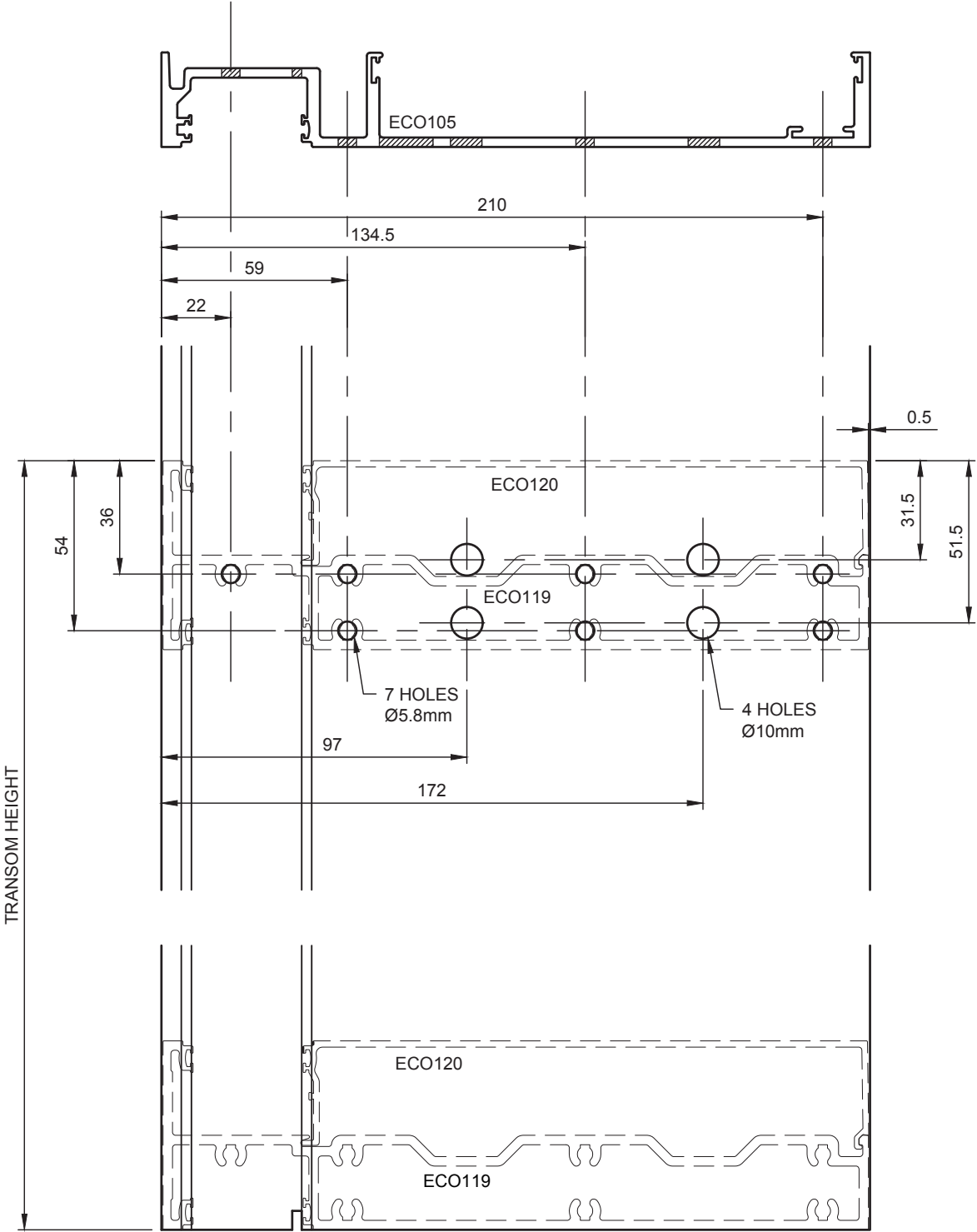


L.H. DRAWN
R.H. OPPOSITE

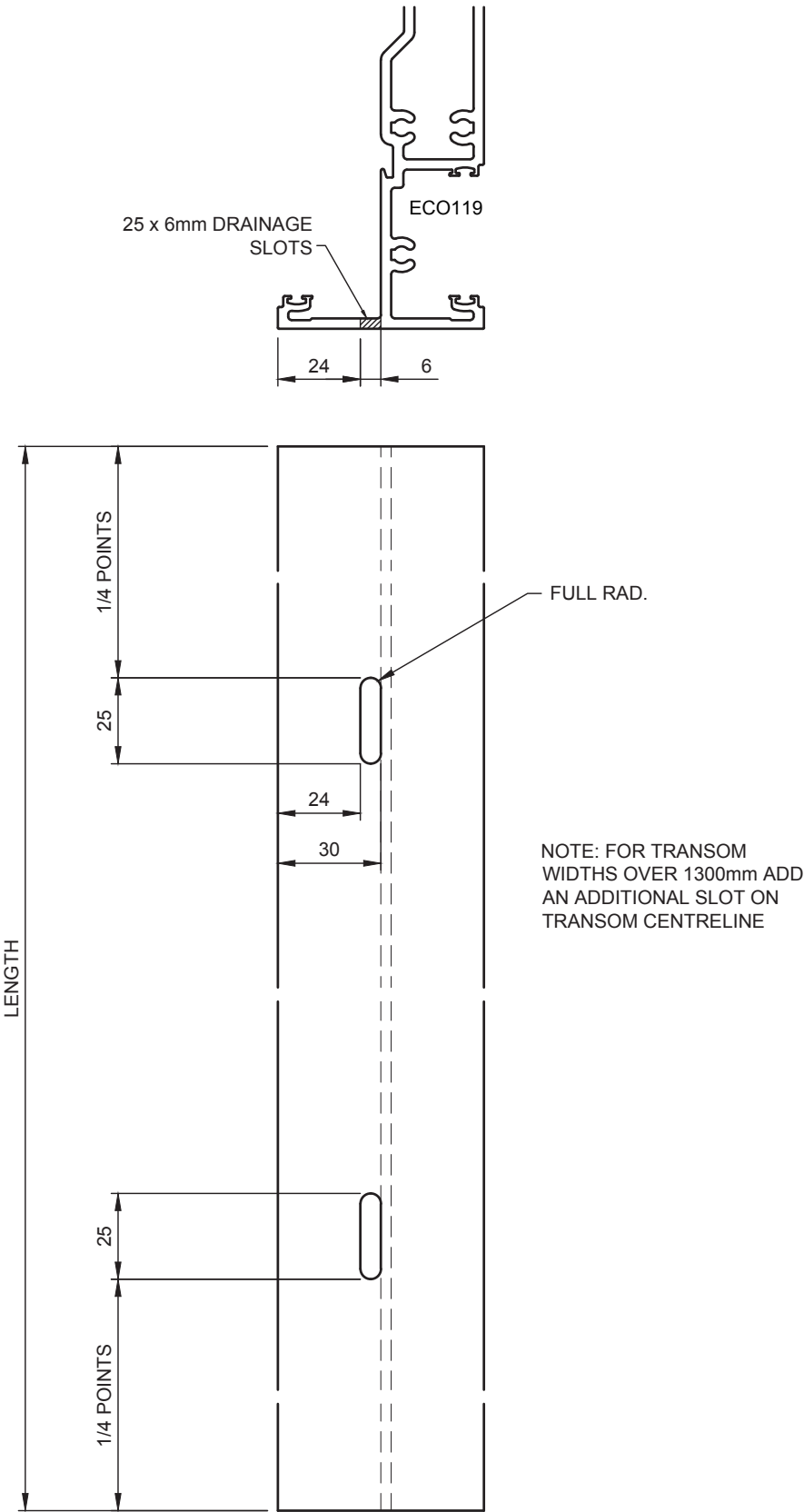
Typical Female Mullion Preparation - Internal Glaze



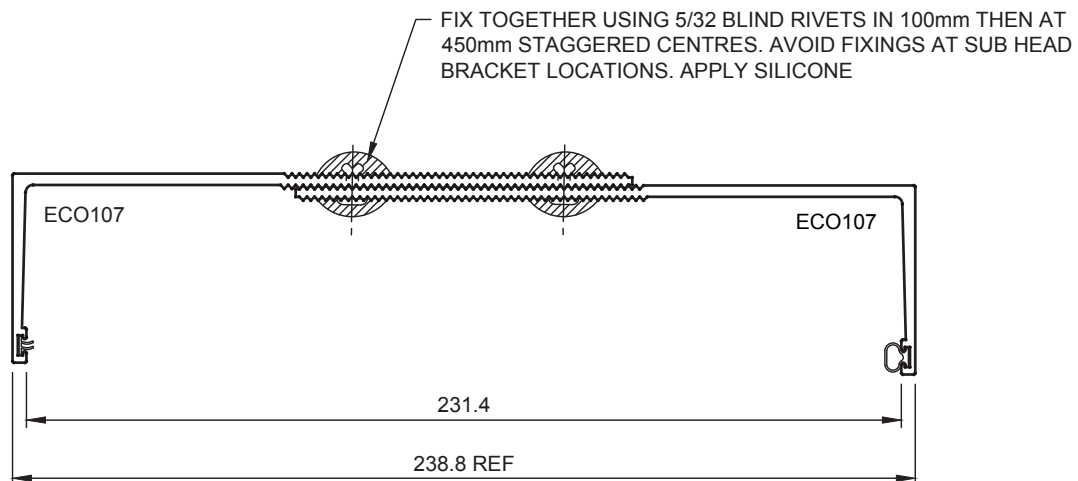
Typical Female Mullion Preparation for Transoms - Internal Glaze



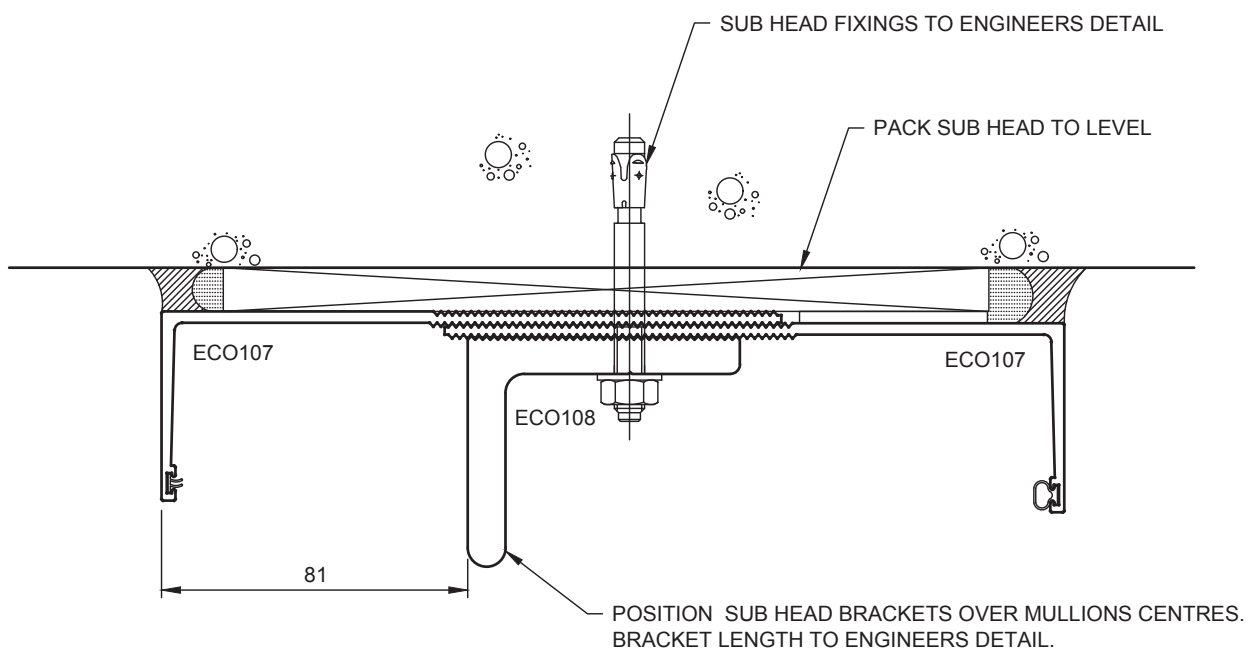
Typical Drainage Preparation - Internal Glaze



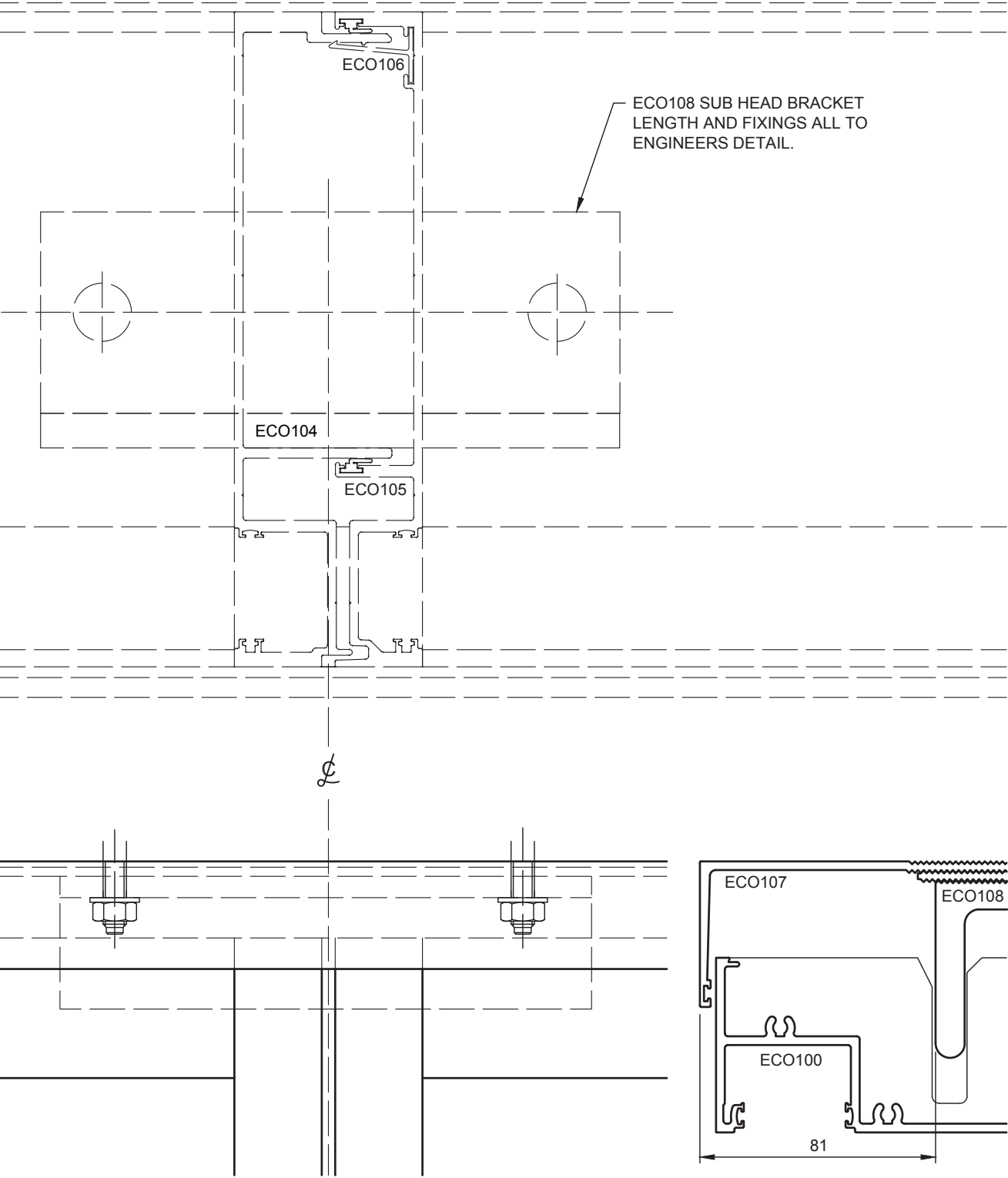
Sub Head Preparation and Set Out



FOR 225mm FRAMING POSITION OUTER HALF OF SUB HEAD OVER THE INNER HALF TO ACHIEVE THE DIMENSIONS ABOVE

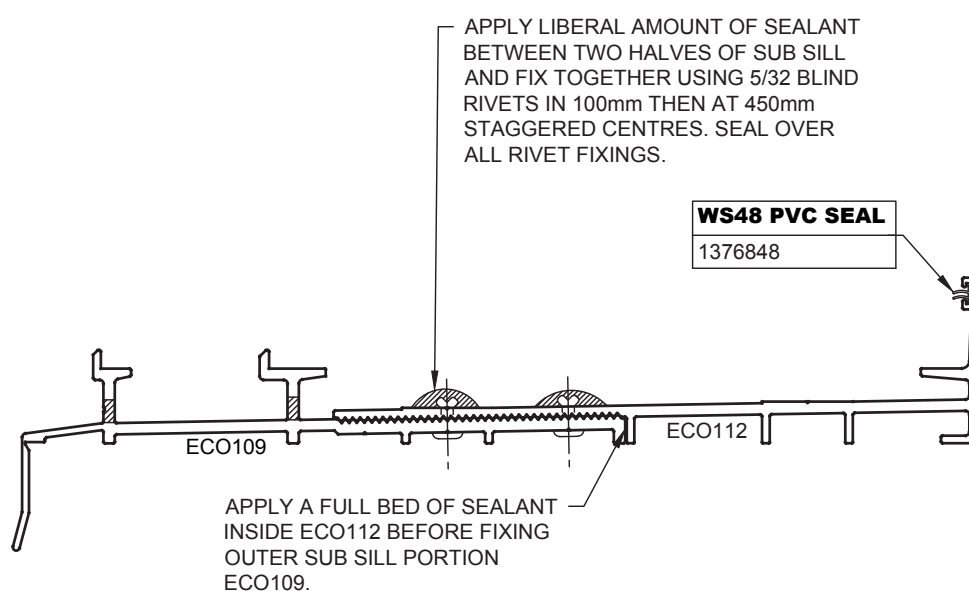


Sub Head Preparation and Set Out Bracket Arrangement

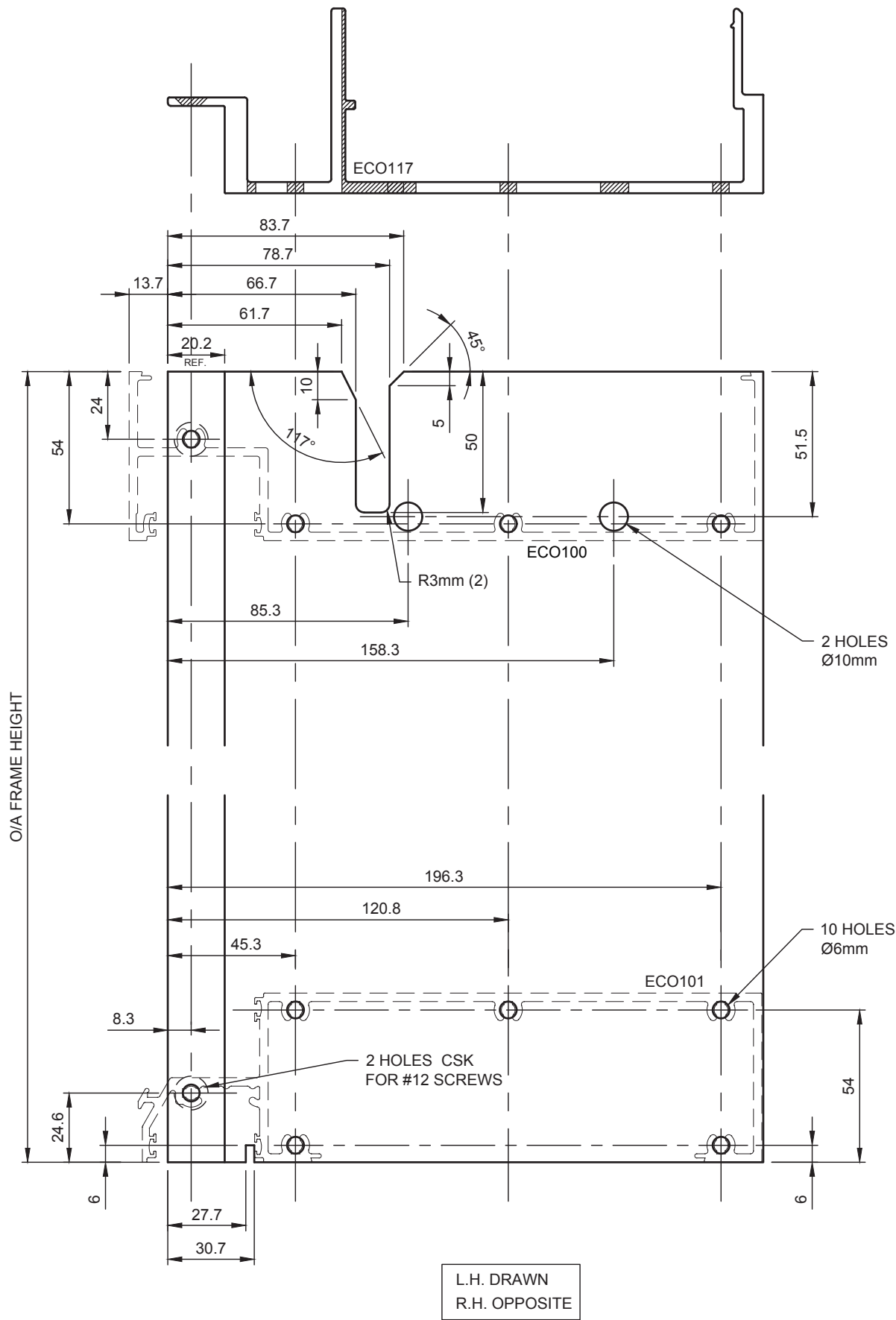


10. Manufacturing Details

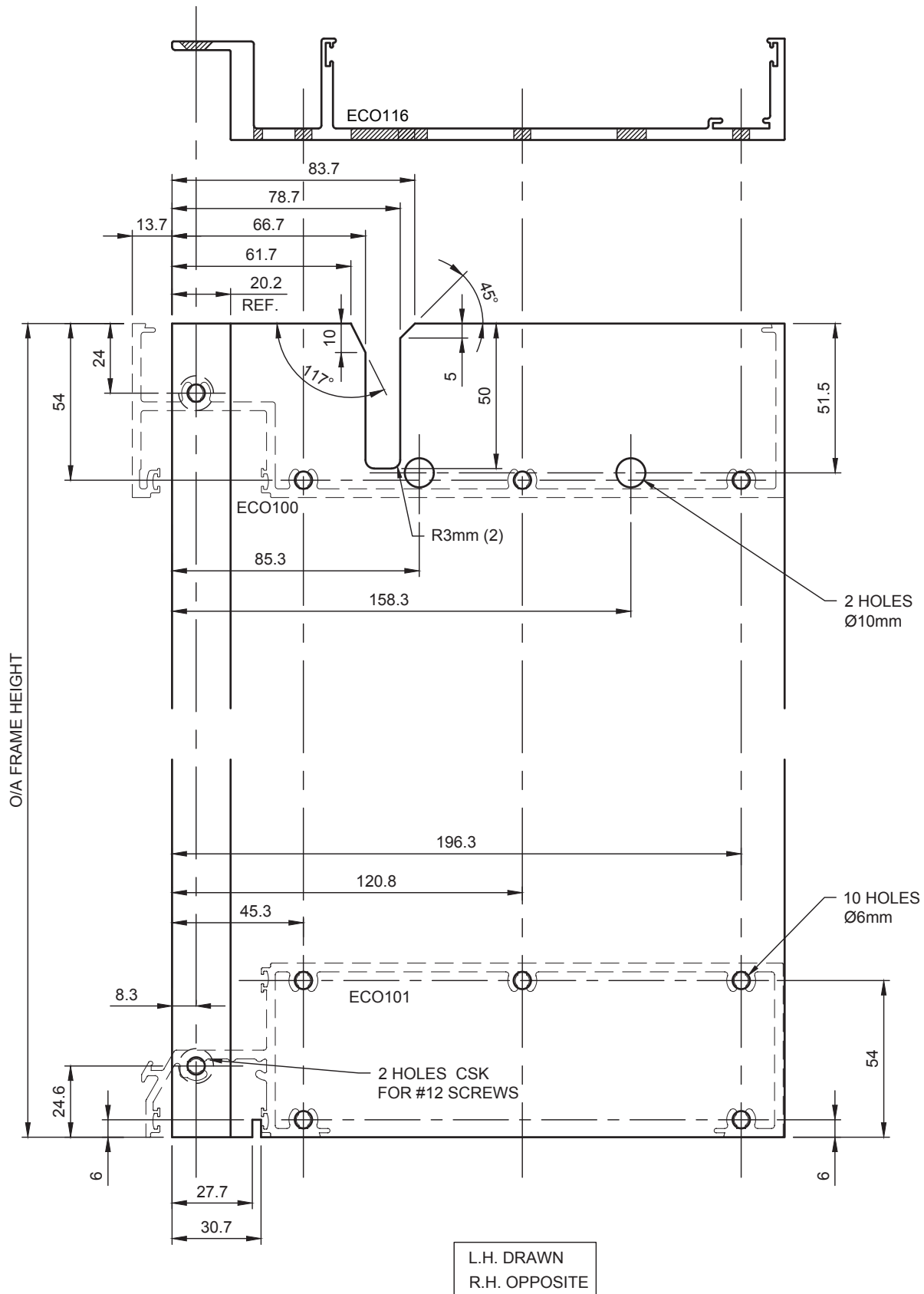
Sub Sill Preparation



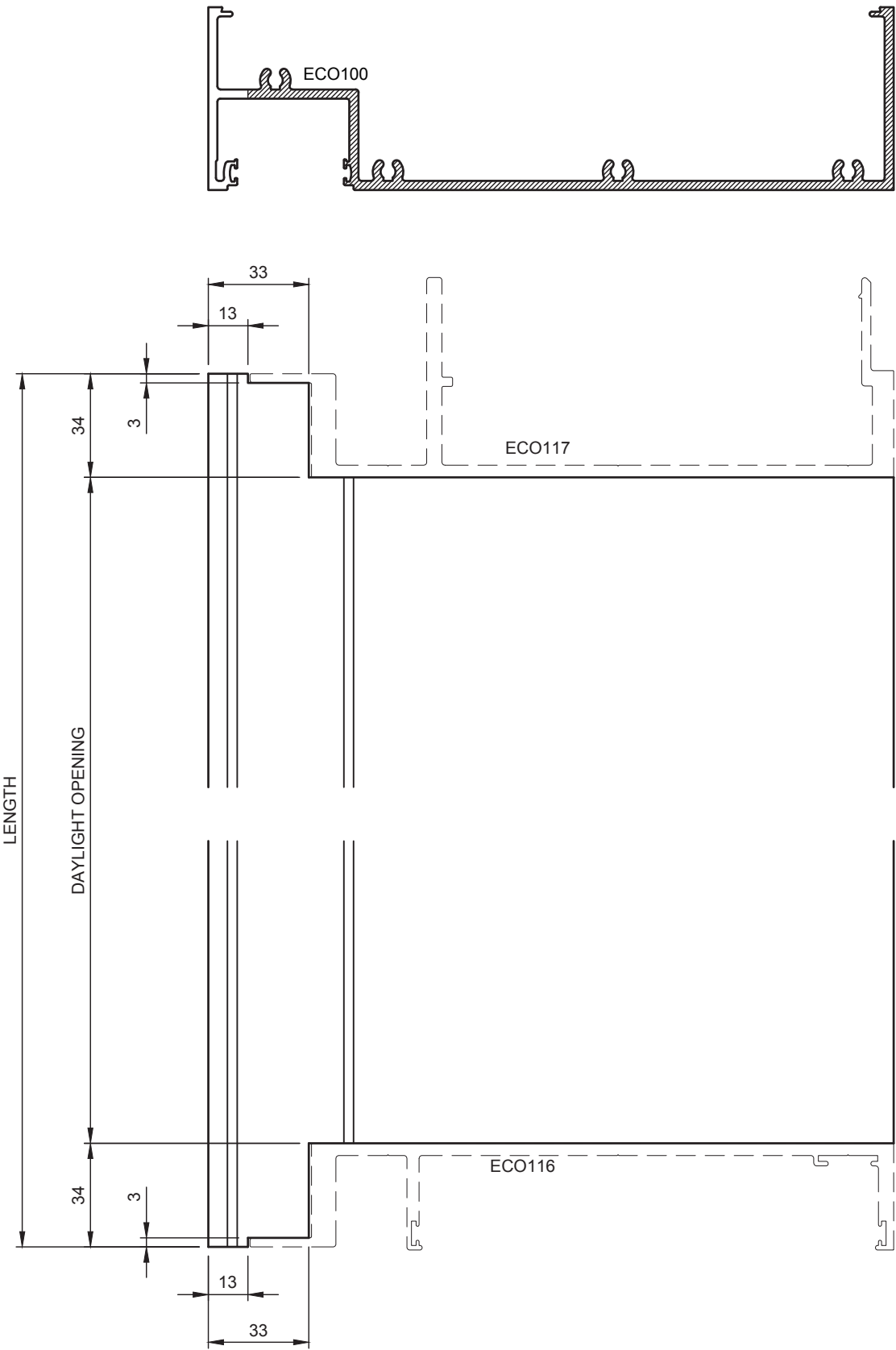
Typical SG Structural Male Mullion Preparation



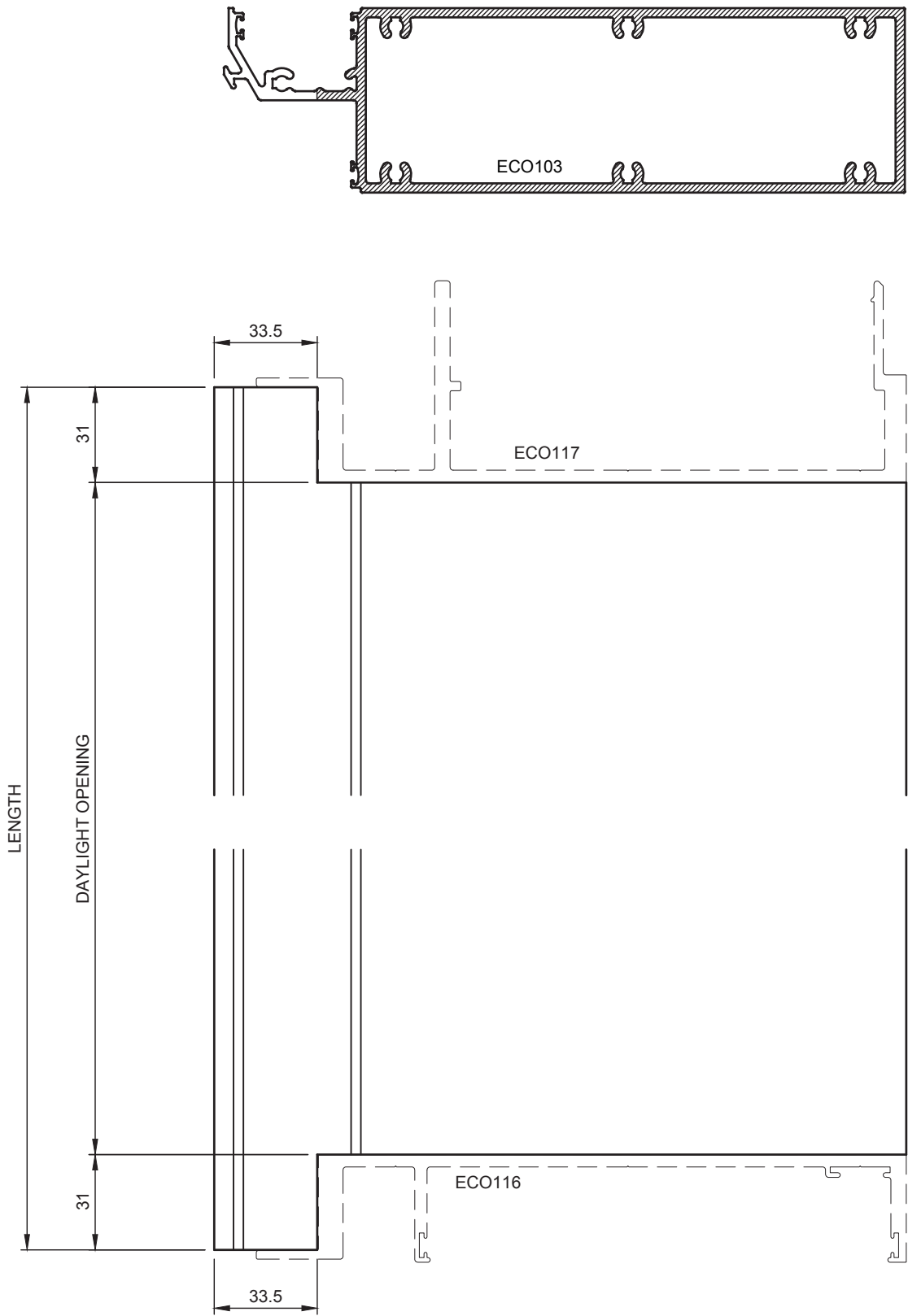
Typical SG Structural Female Mullion Preparation



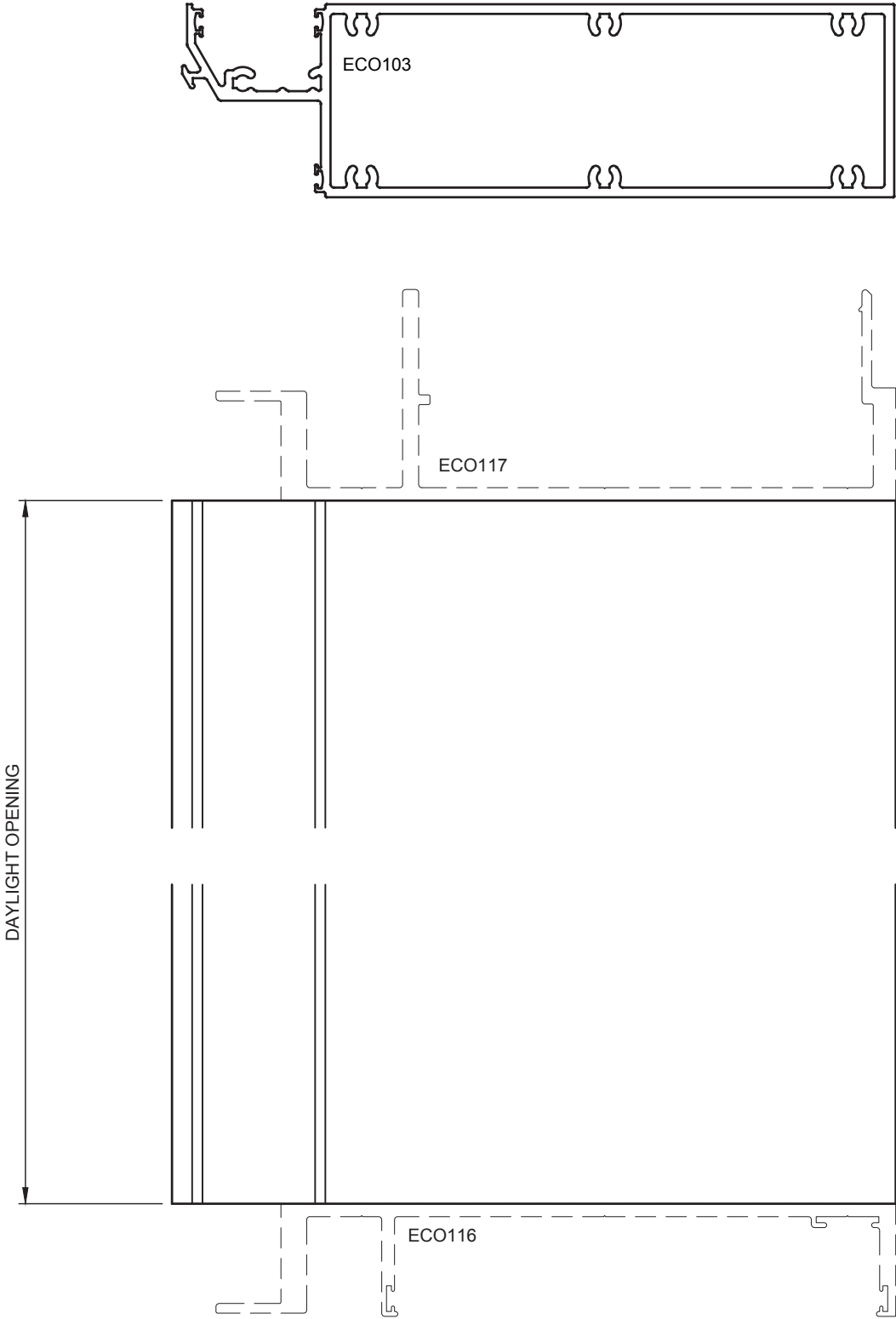
Frame Preparation - Head with SG Structural Mullions



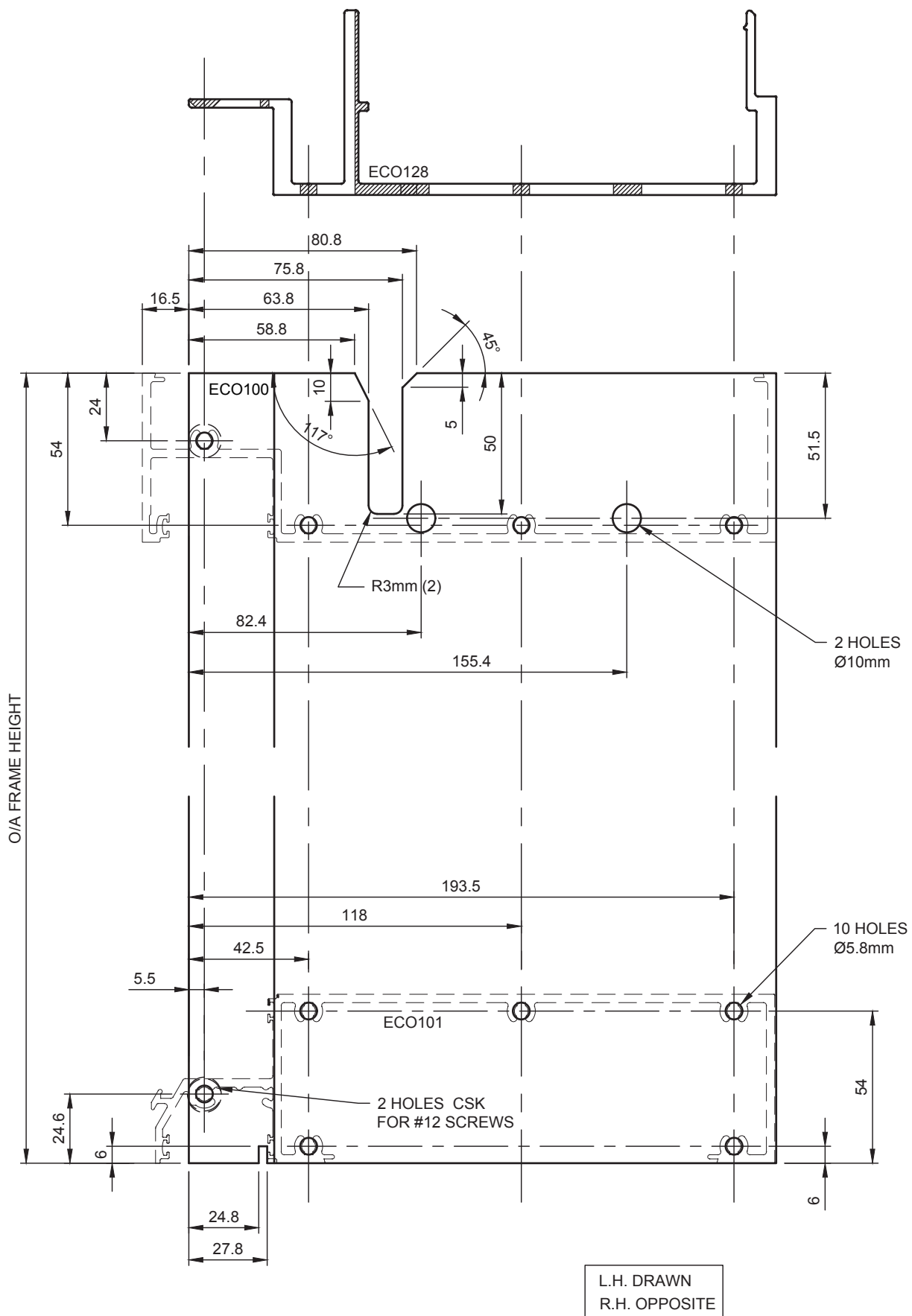
Typical Transom Preparation with SG Structural Mullions



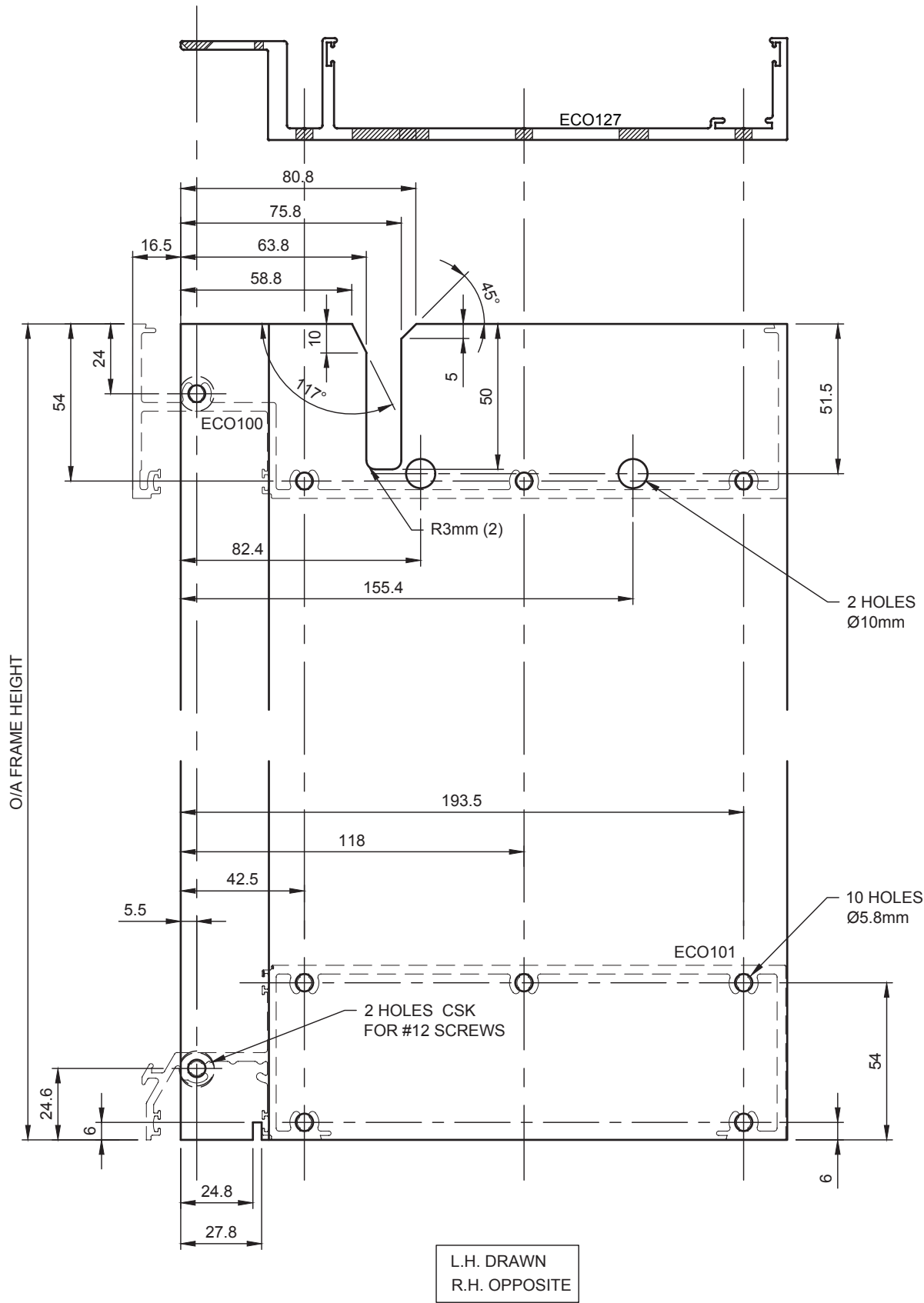
Typical Sill Preparation with SG Structural Mullions



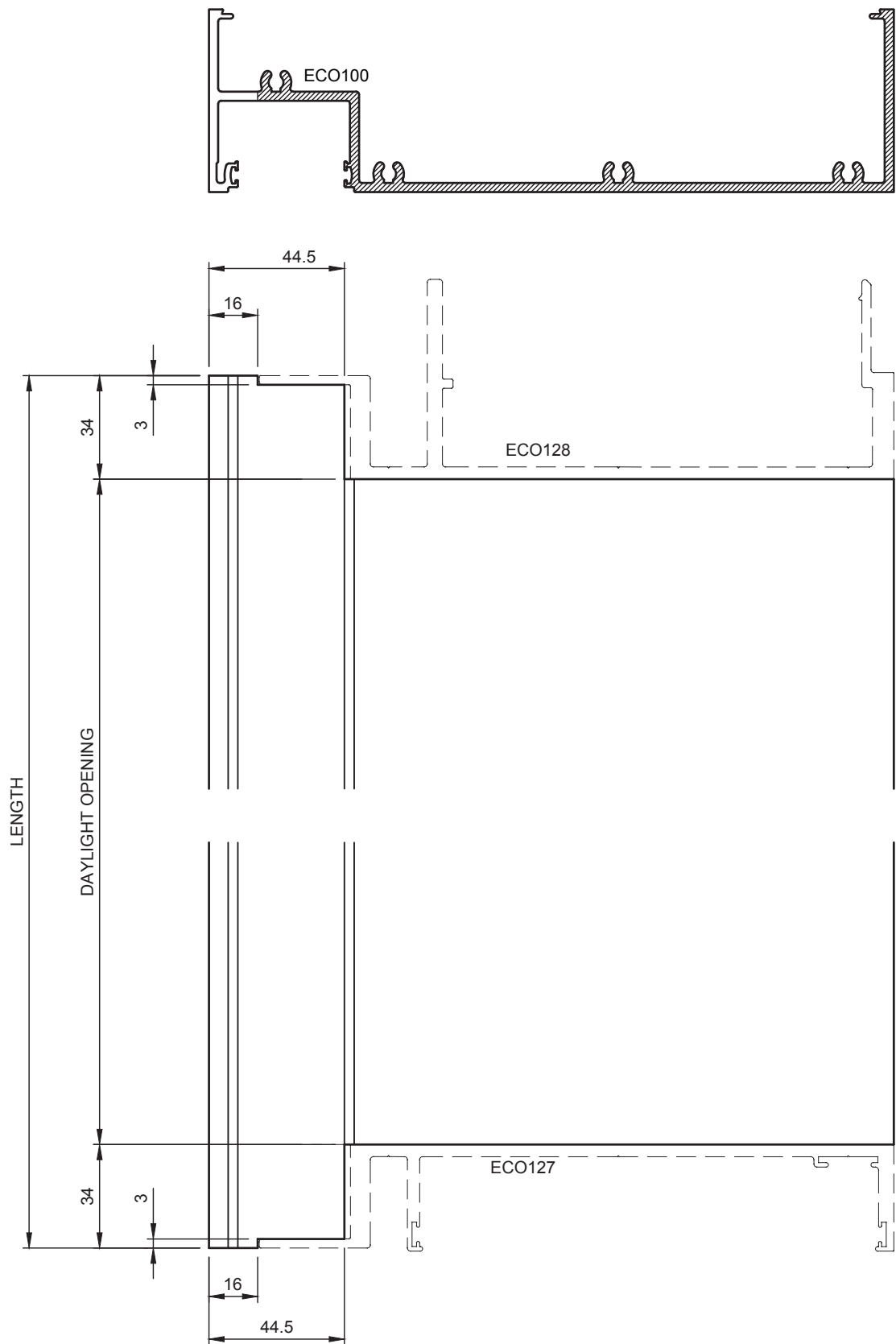
Typical DG Structural Male Mullion Preparation



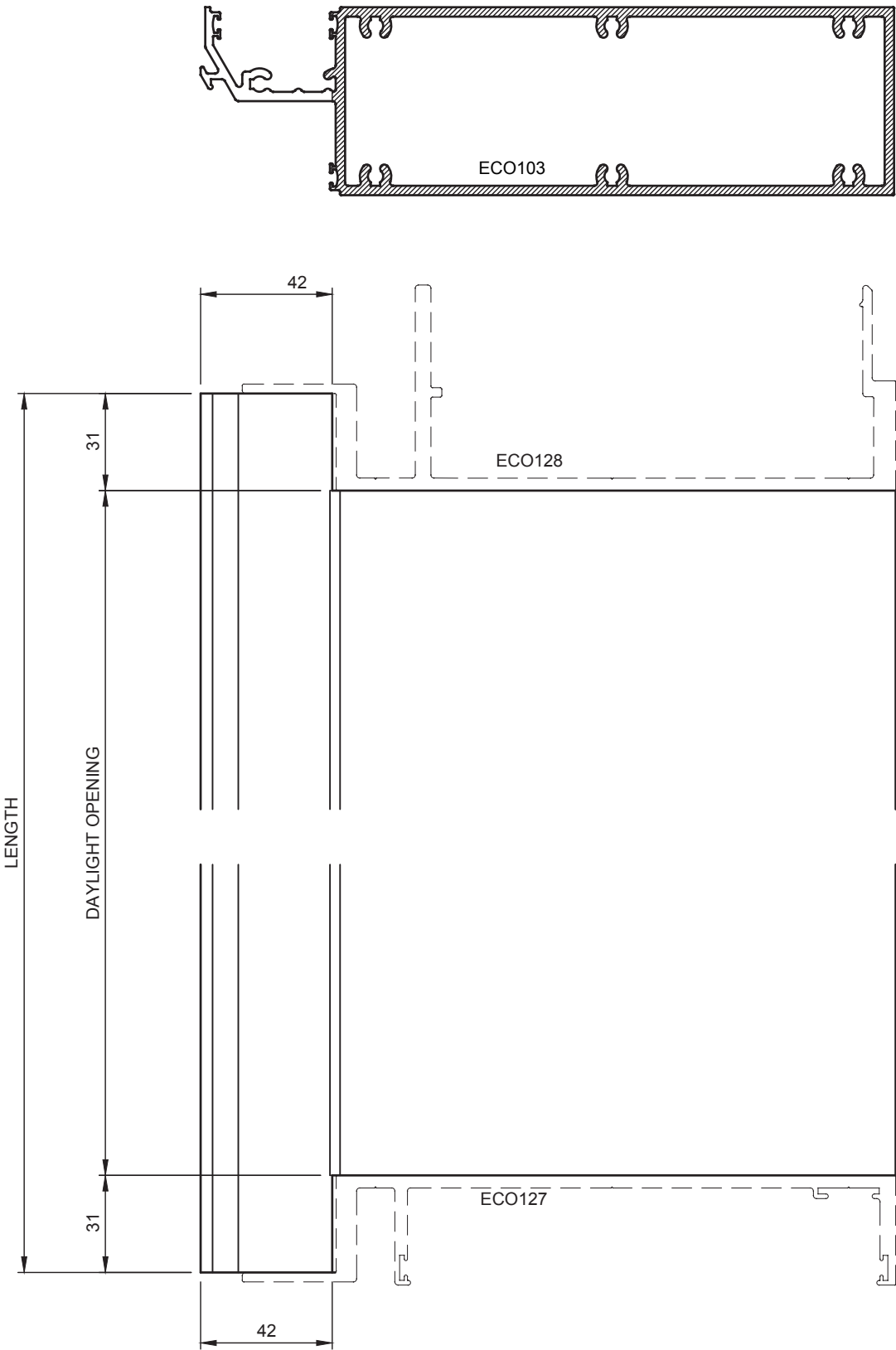
Typical DG Structural Female Mullion Preparation



Frame Preparation - Head with DG Structural Mullions

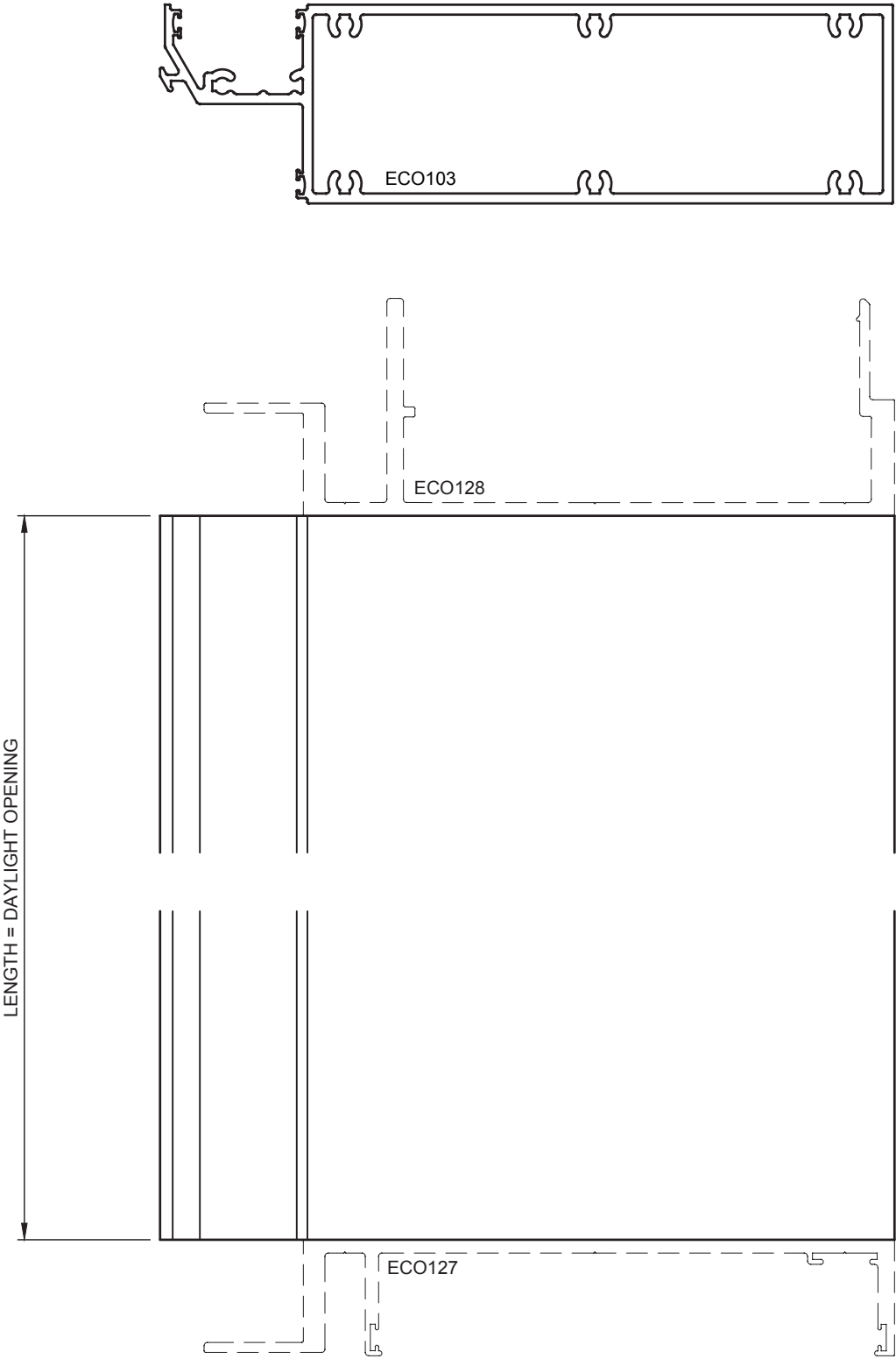


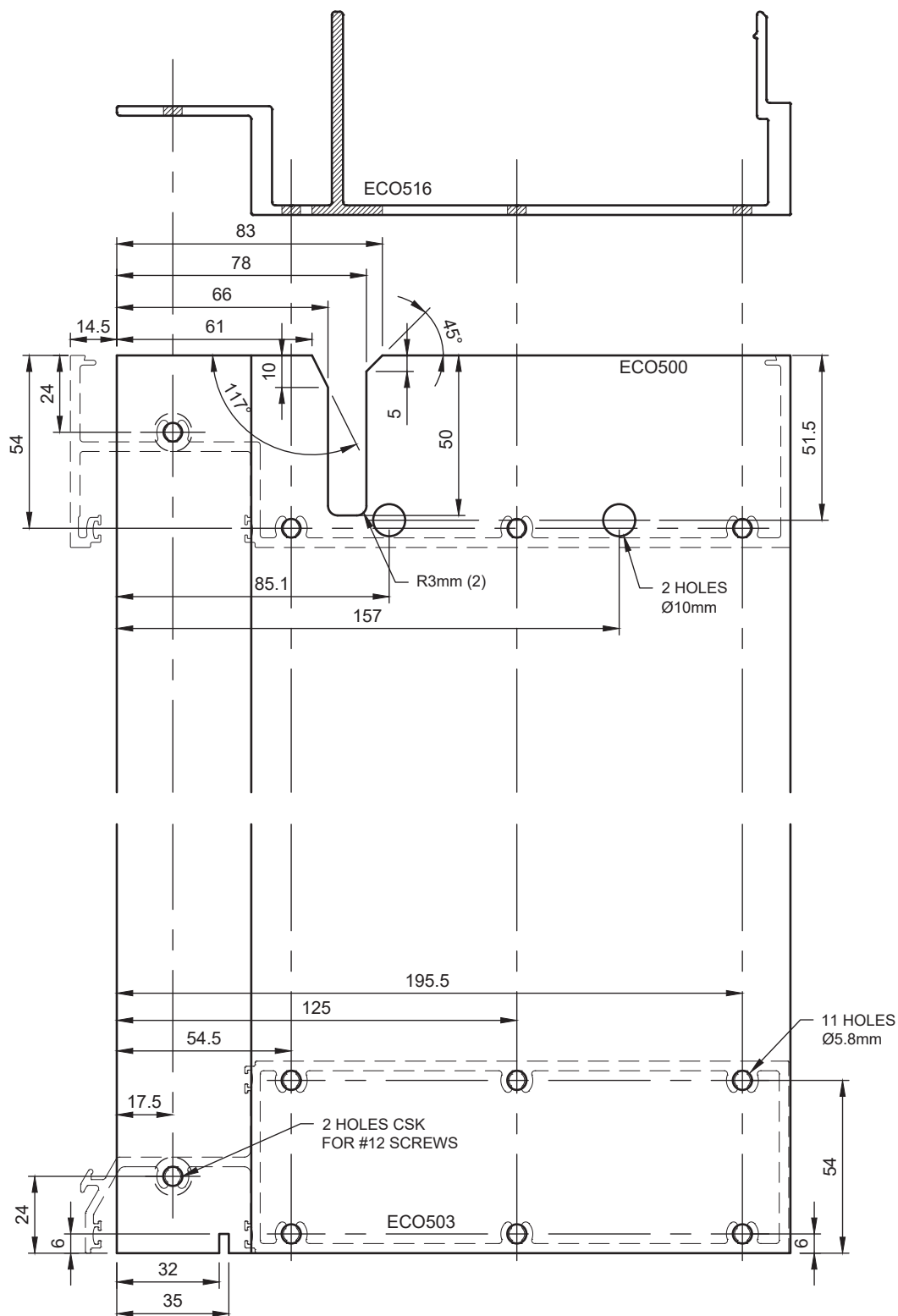
Typical Transom Preparation with DG Structural Mullions



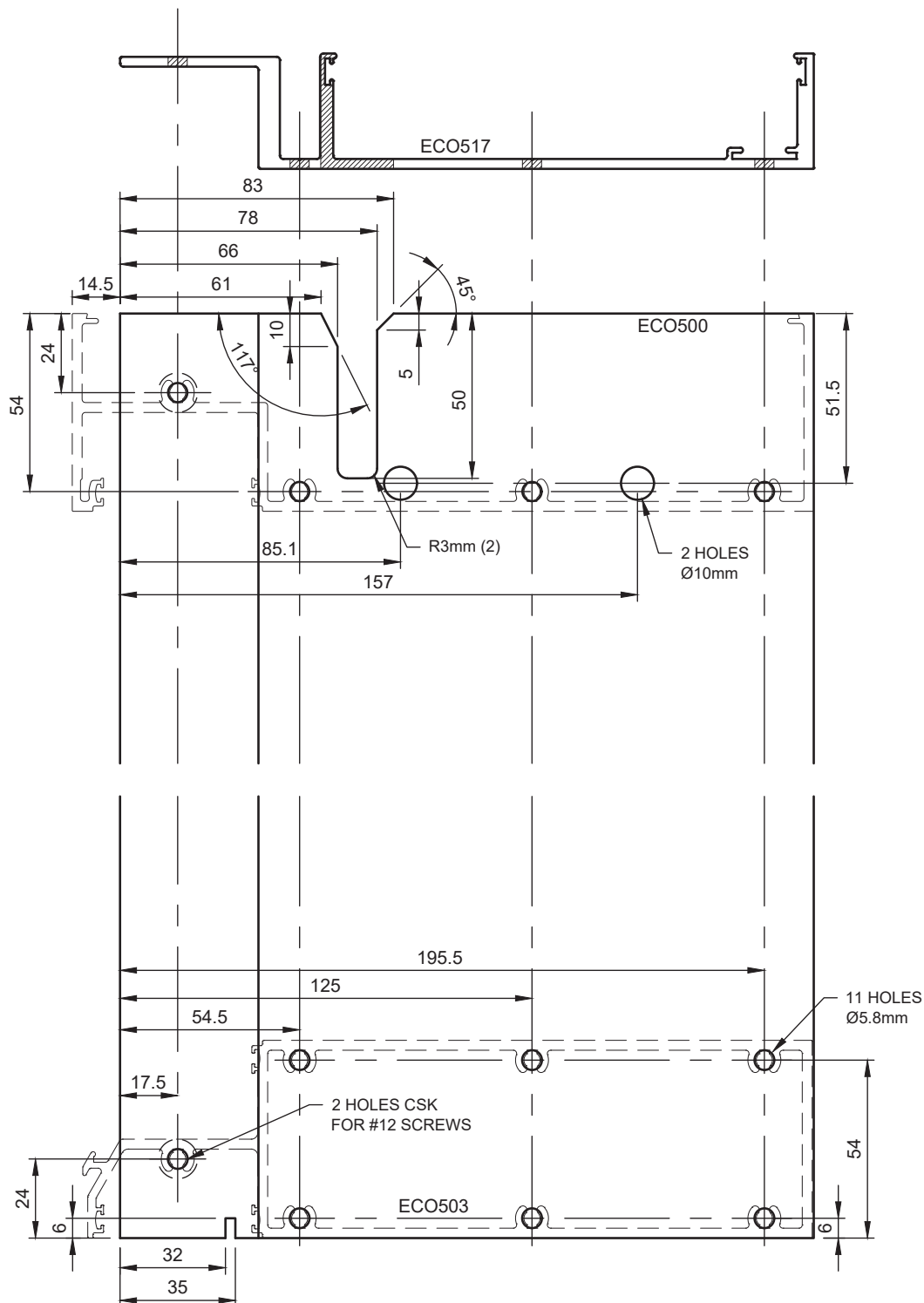
10. Manufacturing Details

Typical Sill Preparation with DG Structural Mullions



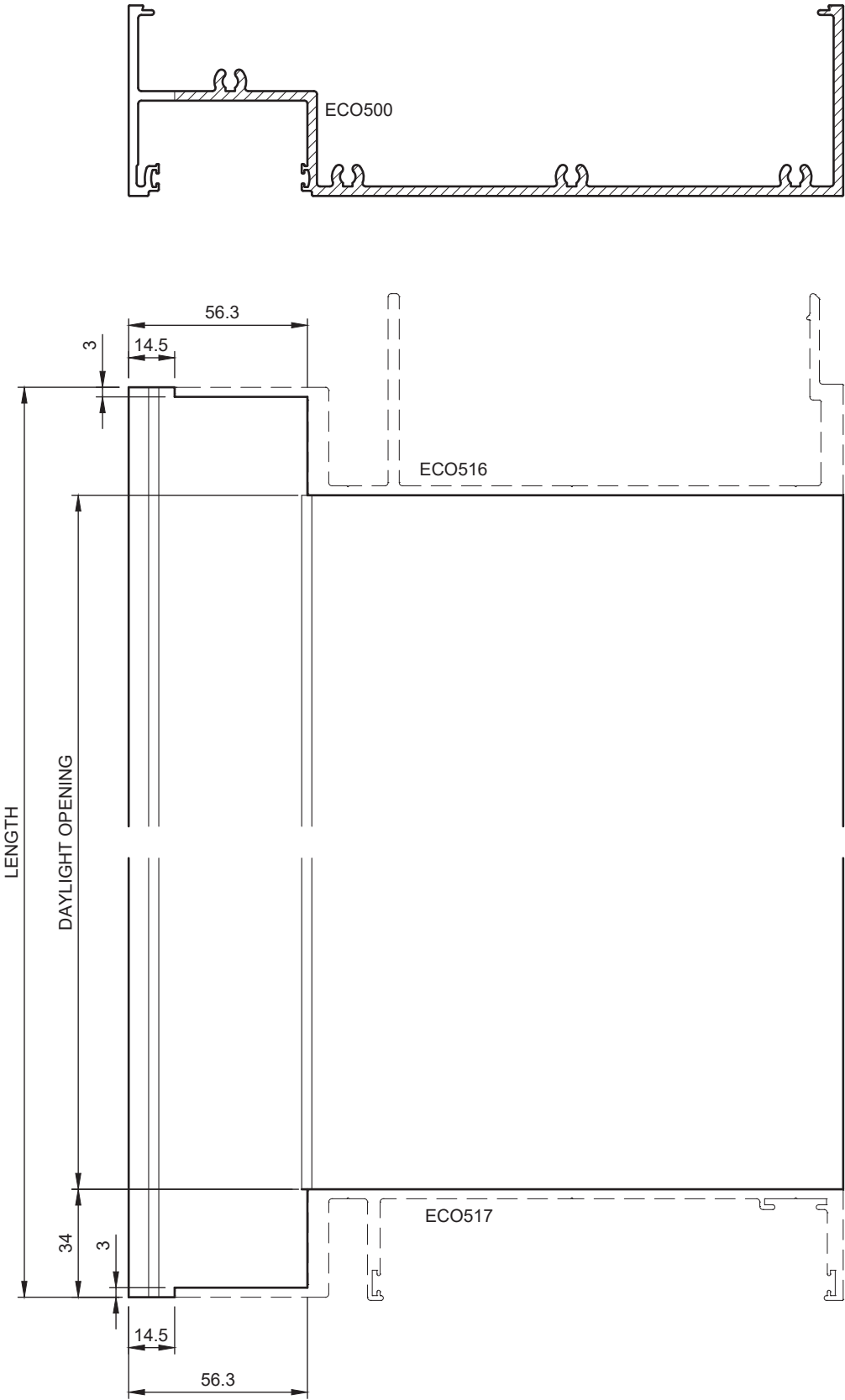


Typical DG Wide Pocket Structural Female Mullion Preparation

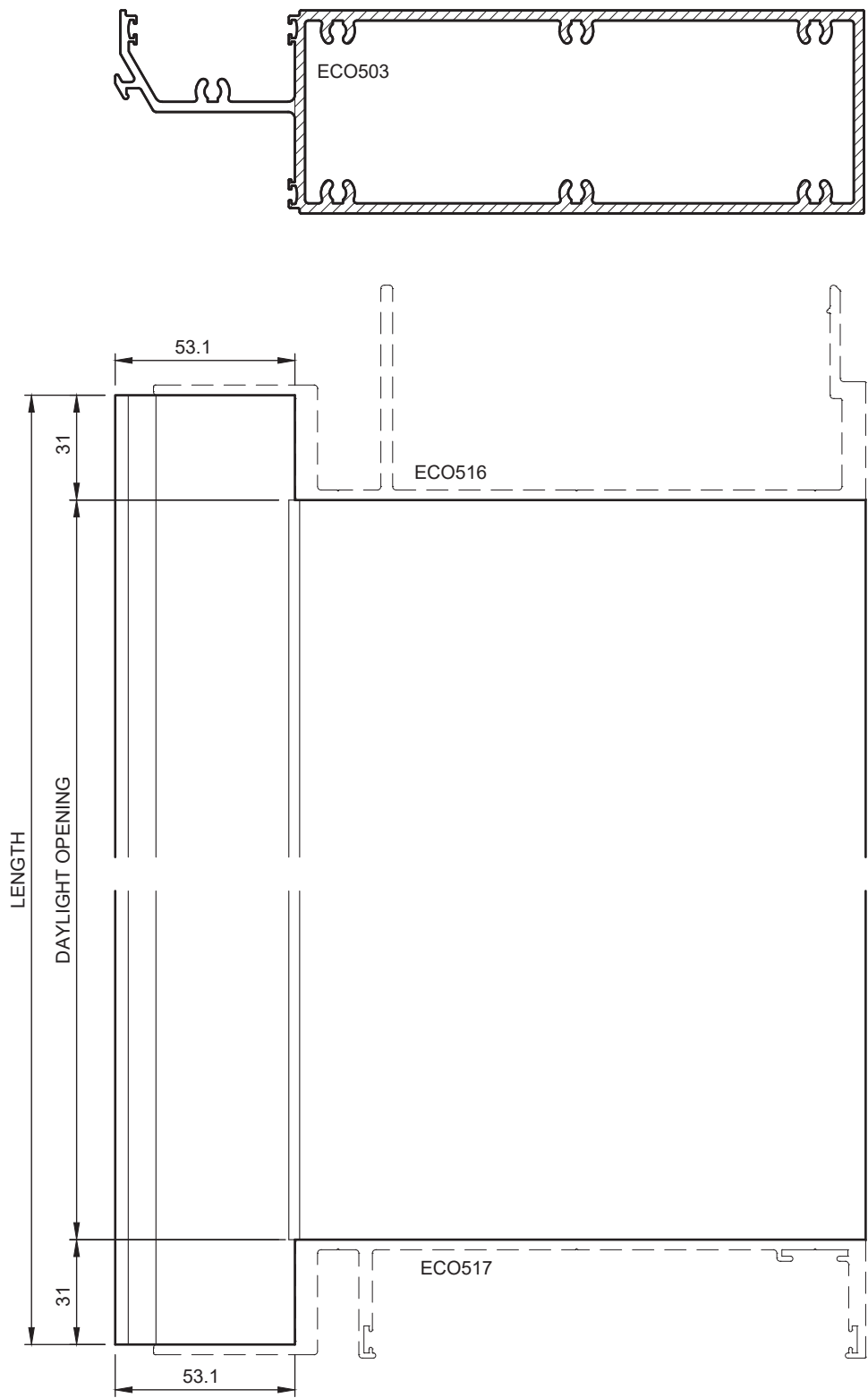


L.H. DRAWN
R.H. OPPOSITE

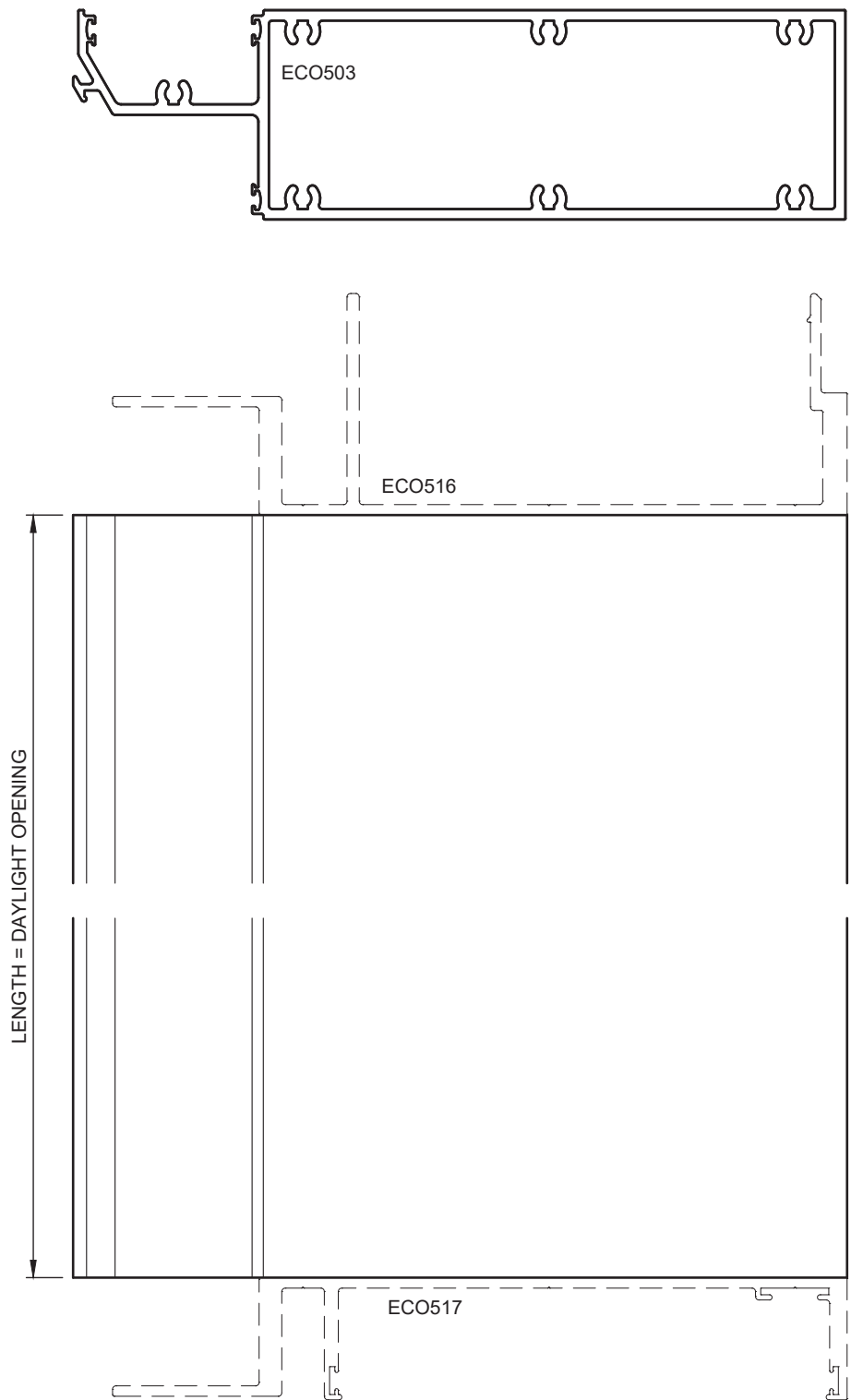
Frame Preparation - Head with DG Structural Mullions - Wide Pocket



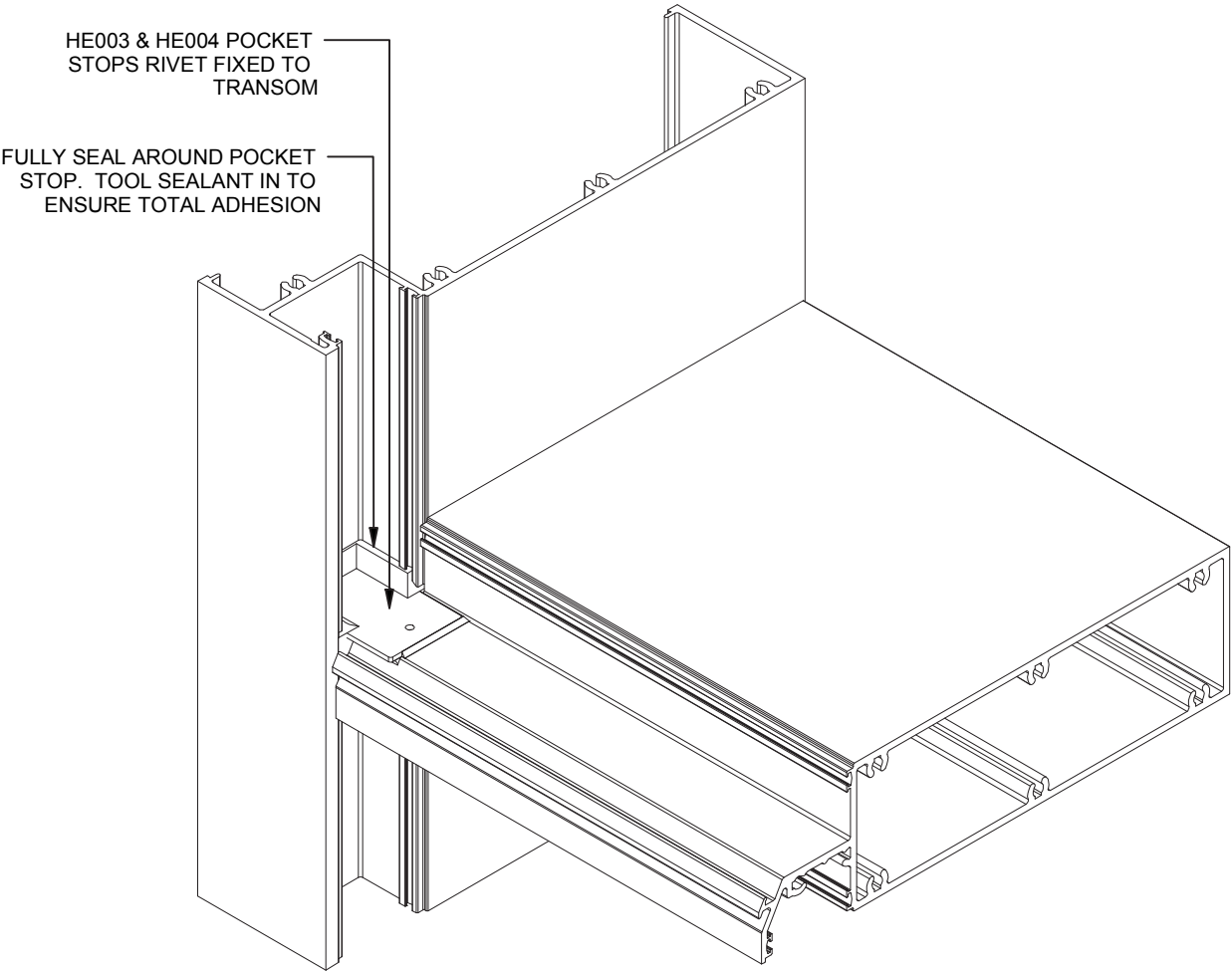
Typical Transom Preparation with DG Structural Mullions - Wide Pocket



Typical Sill Preparation with DG Structural Mullions - Wide Pocket

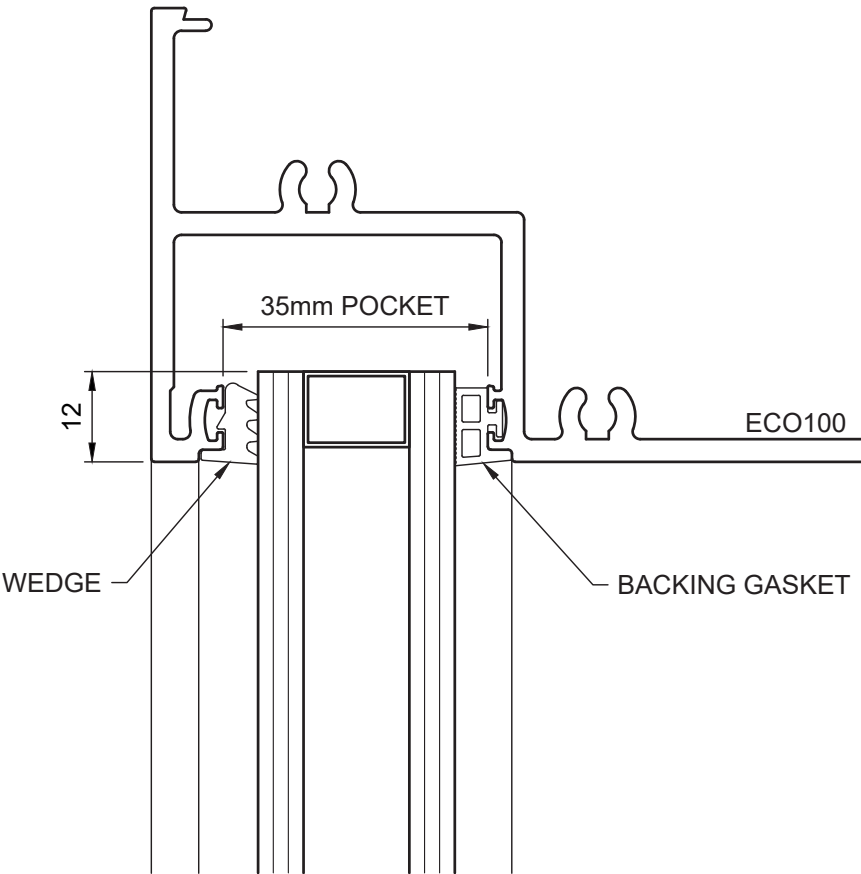


Transom Sealing Detail



TYPICAL ISOMETRIC VIEW OF
TRANSOM TO FRAME ASSEMBLY

Standard Glazing - Double Glazed



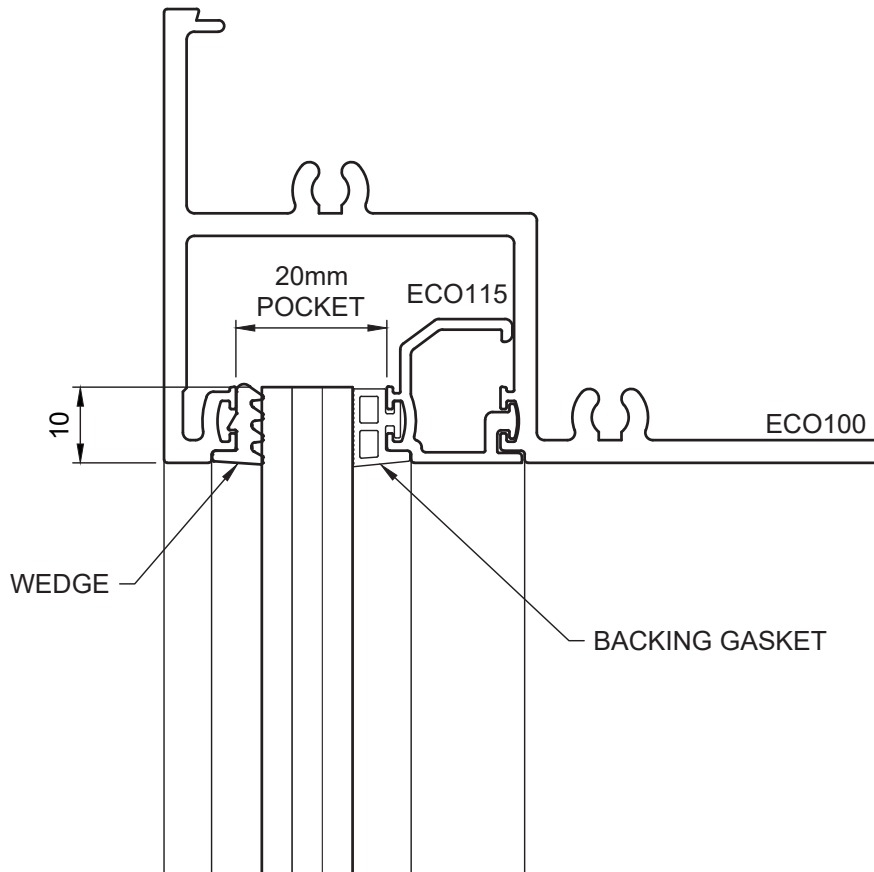
REVERSE GLAZING WEDGE COMBINATIONS FOR INTERNAL GLAZING

	WEDGE		PUSH IN BACKING GASKET	CO-EXTRUDED BACKING GASKET
GLASS THICKNESS	ID COLOUR	REF. (GAP)	REF. (GAP)	REF. (GAP)
20mm	GREEN	GR50 (9mm)	GR49 (6mm)	CE49 (6mm)
22mm	RED	GR47 (7mm)	GR49 (6mm)	CE49 (6mm)
24mm	RED	GR47 (7mm)	GR37 (4mm)	CE47 (4mm)
25mm	YELLOW	GR46 (6mm)	GR37 (4mm)	CE47 (4mm)
26mm	BLUE	GR45 (5mm)	GR37 (4mm)	CE47 (4mm)
28mm	BROWN	GR43 (3mm)	GR37 (4mm)	CE47 (4mm)

Note: For window & door systems requiring a co-extruded captive gasket on the external side of the glazed pocket, Santoprene is the recommended material to be applied.

12. Glazing Details

Standard Glazing with ECO115 Glazing Adaptor

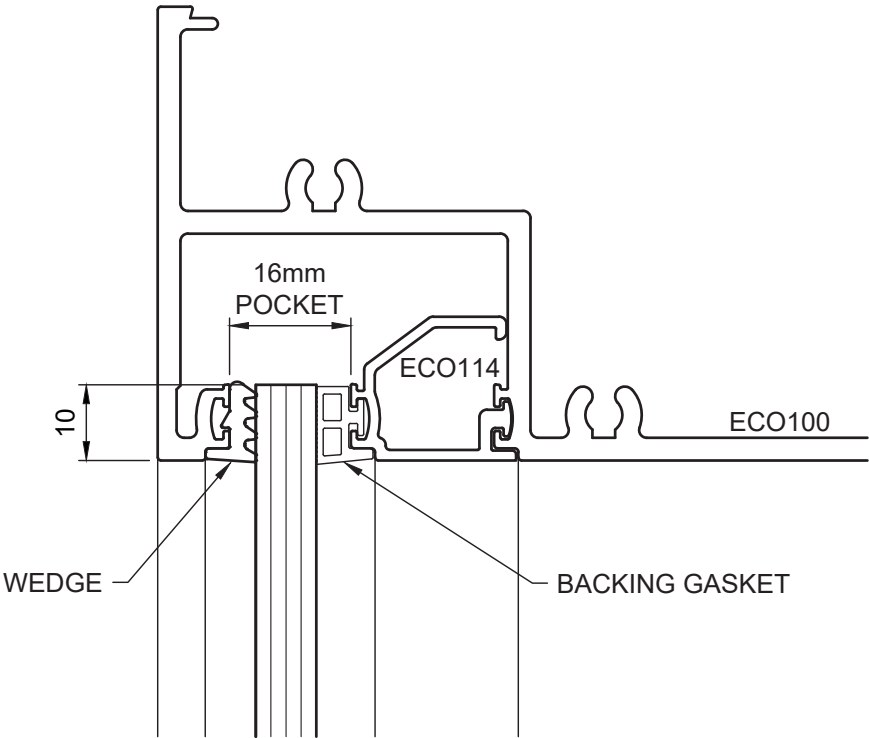


REVERSE GLAZING WEDGE COMBINATIONS FOR INTERNAL GLAZING

	WEDGE		PUSH IN BACKING GASKET	CO-EXTRUDED BACKING GASKET
GLASS THICKNESS	ID COLOUR	REF. (GAP)	REF. (GAP)	REF. (GAP)
12mm - 12.38mm	WHITE	GR44 (4mm)	GR37 (4mm)	CE37 (4mm)
14mm	WHITE	GR44 (4mm)	GR36 (2mm)	CE36 (2mm)

Note: For window & door systems requiring a co-extruded captive gasket on the external side of the glazed pocket, Santoprene is the recommended material to be applied.

Standard Glazing with ECO114 Glazing Adaptor

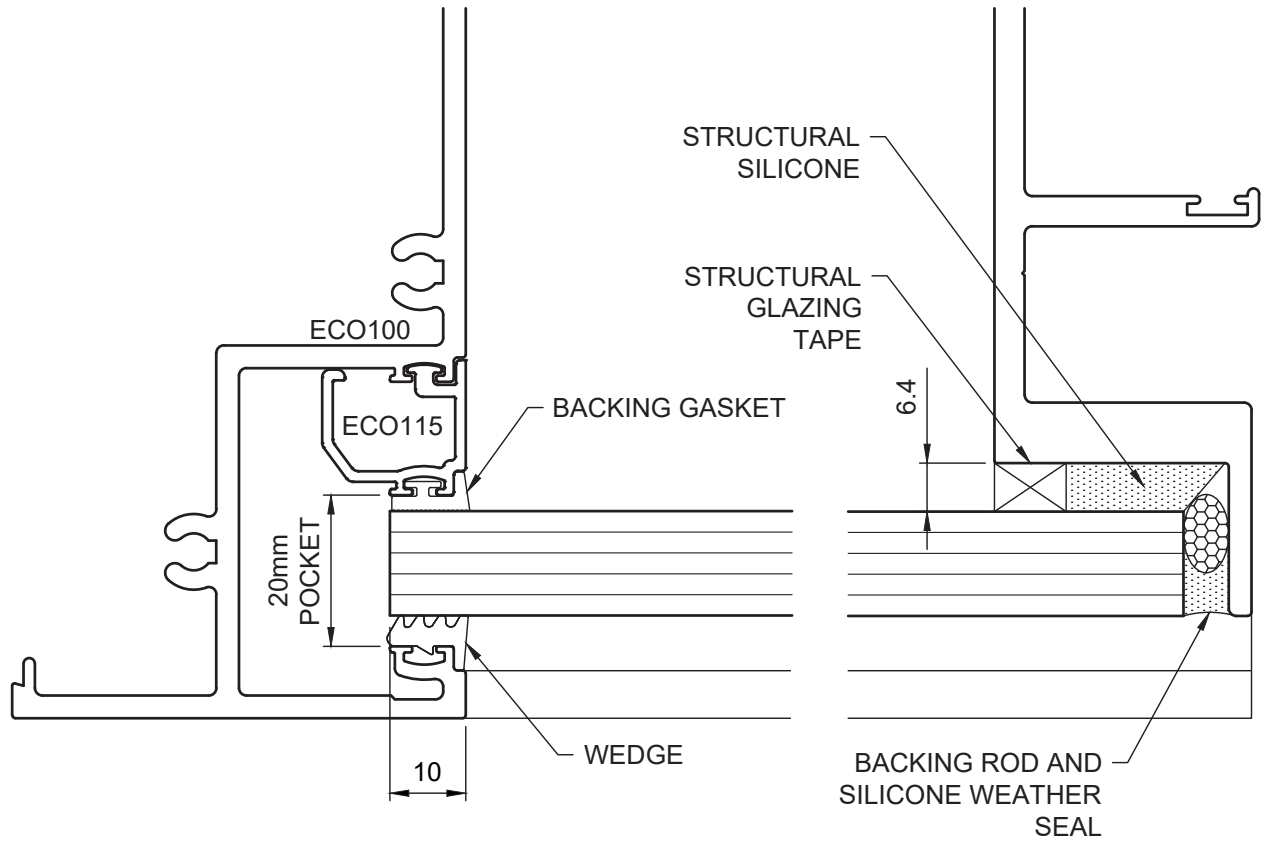


REVERSE GLAZING WEDGE COMBINATIONS FOR INTERNAL GLAZING

	WEDGE		PUSH IN BACKING GASKET	CO-EXTRUDED BACKING GASKET
GLASS THICKNESS	ID COLOUR	REF. (GAP)	REF. (GAP)	REF. (GAP)
4mm	ORANGE	GR48 (8mm)	GR37 (4mm)	CE37 (4mm)
5mm	RED	GR47 (7mm)	GR37 (4mm)	CE37 (4mm)
6mm - 6.38mm	YELLOW	GR46 (6mm)	GR37 (4mm)	CE37 (4mm)
8mm - 8.38mm	WHITE	GR44 (4mm)	GR37 (4mm)	CE37 (4mm)
10mm - 10.38mm	WHITE	GR44 (4mm)	GR36 (2mm)	CE36 (2mm)

Note: For window & door systems requiring a co-extruded captive gasket on the external side of the glazed pocket, Santoprene is the recommended material to be applied.

Structural Glazing with ECO115 Glazing Adaptor



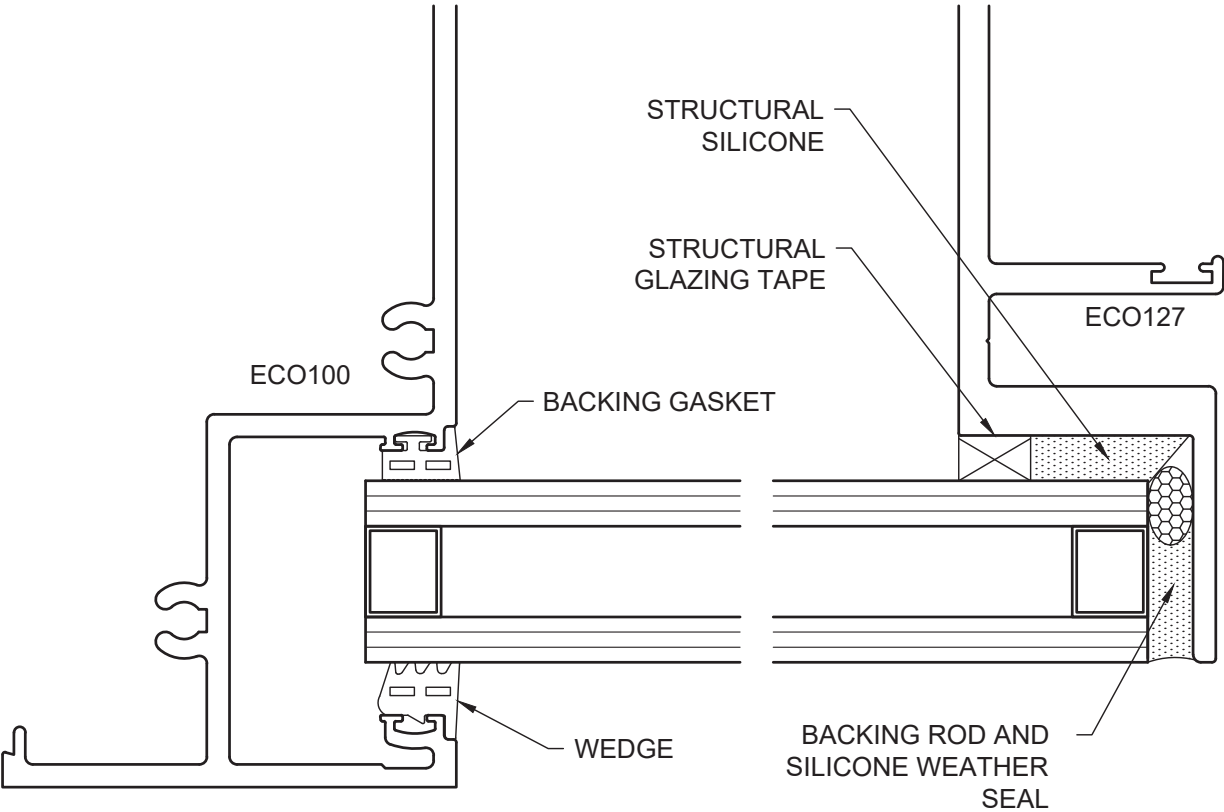
NOTE ON STRUCTURAL GLAZING:
TAPE AND STRUCTURAL BITE WIDTH ARE JOB SPECIFIC
DEPENDING ON LOAD REQUIREMENTS.

REVERSE GLAZING WEDGE COMBINATIONS FOR INTERNAL GLAZING

	WEDGE		PUSH IN BACKING GASKET	CO-EXTRUDED BACKING GASKET
GLASS THICKNESS	ID COLOUR	REF. (GAP)	REF. (GAP)	REF. (GAP)
12mm	YELLOW	GR46 (6mm)	GR36 (2mm)	CE36 (2mm)
12.38mm	YELLOW	GR46 (6mm)	GR36 (2mm)	CE36 (2mm)
13.52mm	WHITE	GR44 (4mm)	GR36 (2mm)	CE36 (2mm)
13.80mm	WHITE	GR44 (4mm)	GR36 (2mm)	CE36 (2mm)
14mm	WHITE	GR44 (4mm)	GR36 (2mm)	CE36 (2mm)

Note: For window & door systems requiring a co-extruded captive gasket on the external side of the glazed pocket, Santoprene is the recommended material to be applied.

Structural Glazing - Double Glazed



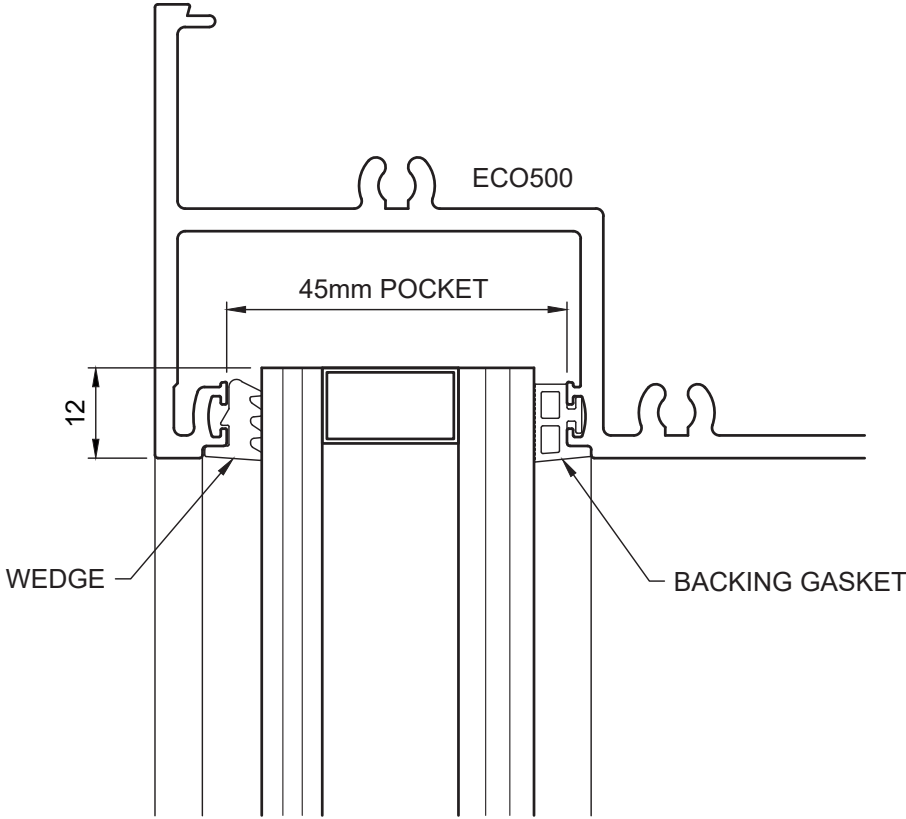
NOTE ON STRUCTURAL GLAZING:
TAPE AND STRUCTURAL BITE WIDTH ARE JOB SPECIFIC
DEPENDING ON LOAD REQUIREMENTS.

REVERSE GLAZING WEDGE COMBINATIONS FOR INTERNAL GLAZING

	WEDGE		CO-EXTRUDED BACKING GASKET
GLASS THICKNESS	ID COLOUR	REF. (GAP)	REF. (GAP)
24mm	RED	GR47 (7mm)	CE37 (4mm)
25mm	YELLOW	GR46 (6mm)	CE37 (4mm)
26mm	BLUE	GR45 (5mm)	CE37 (4mm)
28mm	BROWN	GR43 (3mm)	CE37 (4mm)

Note: For window & door systems requiring a co-extruded captive gasket on the external side of the glazed pocket, Santoprene is the recommended material to be applied.

Wide Pocket Glazing



REVERSE GLAZING WEDGE COMBINATIONS FOR INTERNAL GLAZING

	WEDGE		PUSH IN BACKING GASKET	CO-EXTRUDED BACKING GASKET
GLASS THICKNESS	ID COLOUR	REF. (GAP)	REF. (GAP)	REF. (GAP)
30mm	GREEN	GR50 (9mm)	GR49 (6mm)	CE49 (6mm)
32mm	RED	GR47 (7mm)	GR49 (6mm)	CE49 (6mm)
34mm	RED	GR47 (7mm)	GR37 (4mm)	CE37 (4mm)
35mm	YELLOW	GR46 (6mm)	GR37 (4mm)	CE37 (4mm)
36mm	BLUE	GR45 (5mm)	GR37 (4mm)	CE37 (4mm)
38mm	BLUE	GR45 (5mm)	GR36 (2mm)	CE36 (2mm)

Note: For window & door systems requiring a co-extruded captive gasket on the external side of the glazed pocket, Santoprene is the recommended material to be applied.

FRAMING

Your new **ecoWALL 225 Flush Glazed Framing** 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 **ecoWALL 225 Flush Glazed Framing** frame will retain it's good looks and resist the elements for years to come.

The **ecoWALL 225 Flush Glazed Framing** 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 **ecoWALL 225 Flush Glazed Framing** 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 **ecoWALL 225 Flush Glazed Framing** 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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