



McArthur Evo

Centre Pocket Framing



McArthur Evo

101.6mm Centre Pocket Framing

Technical Manual
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alspec[®]
EVERYTHING ALUMINIUM
& HARDWARE

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2. Technical Specifications

ALUMINIUM

Aluminium frames should be manufactured using Alspec's **McARTHUR EVO 101.6mm CENTRE POCKET FRAMING** system

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

GLAZING

- Minimum glass thickness is 6mm
- Maximum glass thickness is 14mm
- Glazing wedges shall be Alspec's wedges to suit standard & captive glazing options, refer glazing pages 12.1 and 12.2.

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 **McARTHUR EVO 101.6mm CENTRE POCKET 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	2030	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
Ixx = 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:

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

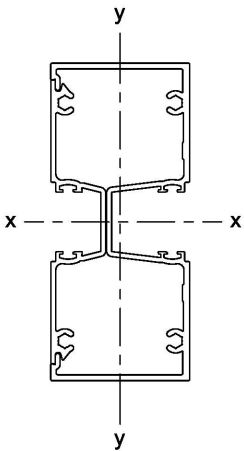
3. Loading Tables

ME1 + ME4 Mullion

Max Stress = 110Mpa

S = Serviceability limit state I/250

U = Ultimate limit state

ME1 + ME4 MULLION	Panel Height	Maximum Design Pressure (Pa)						
	3300	S	660	540				
		U	1790	1440				
	3150	S	760	620	520			
		U	1960	1590	1340			
	3000	S	890	720	610	540		
		U	2170	1760	1490	1300		
	2850	S	1040	840	720	630	570	530
		U	2410	1960	1660	1460	1310	1200
	2700	S	1230	1000	850	750	680	630
		U	2700	2190	1870	1640	1480	1360
	2550	S	1460	1200	1020	910	830	770
		U	3040	2470	2110	1860	1690	1560
	2400	S	1770	1450	1250	1110	1010	950
		U	3440	2810	2410	2130	1940	1810
	2250	S	2160	1780	1530	1370	1270	1200
		U	3940	3230	2780	2470	2270	2130
	2100	S	2670	2210	1920	1730	1610	1540
		U	4550	3750	3240	2900	2680	2550
Ixx = 883 x 10³ mm⁴	Mullion centres		800	1000	1200	1400	1600	1800
								2000

Tables are based on theoretical section properties



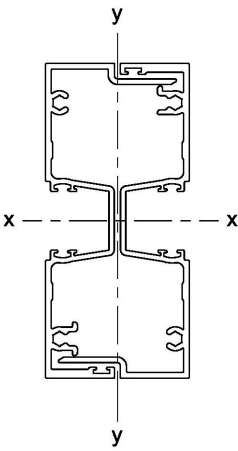
3. Loading Tables

ME6 Self Mating Mullion

Max Stress = 110Mpa

S = Serviceability limit state l/250

U = Ultimate limit state

ME6 SELF MATING MULLION	Panel Height	Maximum Design Pressure (Pa)						
	3750	S	580					
		U	1720					
	3600	S	650	530				
		U	1870	1510				
	3450	S	740	600	510			
		U	2040	1650	1390			
	3300	S	850	690	580	510		
		U	2240	1810	1530	1330		
	3150	S	980	800	680	590	530	
		U	2460	1990	1690	1470	1320	
	3000	S	1140	930	790	690	620	570
		U	2720	2210	1870	1630	1470	1340
	2850	S	1340	1090	930	810	730	680
		U	3020	2460	2080	1830	1640	1510
	2700	S	1580	1290	1100	970	880	810
		U	3380	2750	2340	2060	1860	1710
	2550	S	1880	1540	1320	1170	1060	990
		U	3800	3100	2650	2340	2120	1960
	2400	S	2270	1860	1600	1430	1310	1220
		U	4310	3530	3020	2680	2440	2270
$I_{xx} = 1129 \times 10^3 \text{ mm}^4$	Mullion centres		800	1000	1200	1400	1600	1800
								2000

Tables are based on theoretical section properties

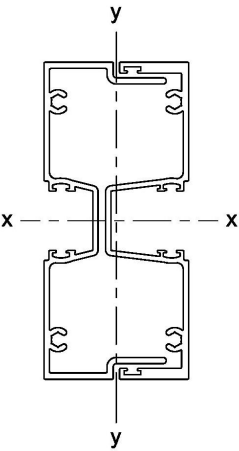
3. Loading Tables

ME10 + ME11 STD Mullions

Max Stress = 110Mpa

S = Serviceability limit state l/250

U = Ultimate limit state

ME10 + ME11 STD MULLIONS	Panel Height	Maximum Design Pressure (Pa)						
		S	U	S	U	S	U	S
	3750	S	580					
		U	1790					
	3600	S	660	530				
		U	1940	1570				
	3450	S	750	610	510			
		U	2120	1710	1440			
	3300	S	860	700	590	510		
		U	2320	1870	1580	1380		
	3150	S	990	800	680	600	530	
		U	2550	2060	1750	1520	1360	
	3000	S	1150	940	790	700	630	570
		U	2820	2280	1940	1690	1520	1390
	2850	S	1350	1100	930	820	740	680
		U	3130	2540	2160	1890	1700	1560
	2700	S	1590	1300	1110	980	890	820
		U	3500	2850	2420	2130	1920	1770
	2550	S	1900	1550	1330	1180	1070	1000
		U	3940	3210	2740	2420	2190	2030
	2400	S	2290	1880	1620	1440	1320	1230
		U	4460	3650	3130	2770	2520	2350
$I_{xx} = 1146 \times 10^3 \text{ mm}^4$	Mullion centres		800	1000	1200	1400	1600	1800
								2000

Tables are based on theoretical section properties



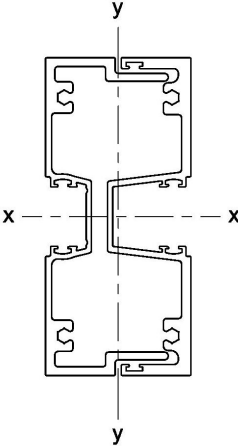
3. Loading Tables

ME12 + ME13 H.D. Mullions

Max Stress = 110Mpa

S = Serviceability limit state I/250

U = Ultimate limit state

ME12 + ME13 H.D. MULLIONS	Panel Height	Maximum Design Pressure (Pa)							
	3900	S	700	560					
		U	2240	1800					
	3750	S	790	640	540				
		U	2420	1950	1640				
	3600	S	890	720	610	530			
		U	2630	2120	1790	1560			
	3450	S	1020	820	700	610	540		
		U	2870	2320	1960	1700	1520		
	3300	S	1170	940	800	700	620	570	530
		U	3140	2540	2150	1870	1670	1520	1400
	3150	S	1350	1090	930	810	730	660	620
		U	3460	2800	2370	2070	1850	1680	1560
	3000	S	1560	1270	1080	950	850	780	730
		U	3820	3100	2620	2300	2060	1880	1750
	2850	S	1830	1490	1270	1120	1010	930	870
		U	4240	3450	2930	2570	2310	2120	1970
	2700	S	2160	1760	1500	1330	1200	1110	1050
		U	4740	3860	3280	2890	2610	2400	2250
	2550	S	2580	2110	1810	1600	1460	1350	1280
		U	5340	4350	3720	3280	2970	2750	2600
	2400	S	3110	2550	2190	1950	1790	1670	1600
		U	6050	4950	4240	3760	3420	3190	3030
$I_{xx} = 1552 \times 10^3 \text{ mm}^4$	Mullion centres		800	1000	1200	1400	1600	1800	2000

Tables are based on theoretical section properties

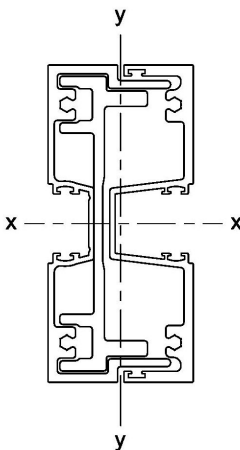
3. Loading Tables

ME12 + ME13 H.D. Mullions + M14 Splice

Max Stress = 110Mpa

S = Serviceability limit state l/250

U = Ultimate limit state

ME12 + ME13 H.D. MULLIONS + M14 SPLICE	Panel Height	Maximum Design Pressure (Pa)							
	4200	S	820	660	550				
		U	2820	2270	1910				
	4050	S	920	740	620	540			
		U	3030	2440	2050	1780			
	3900	S	1030	830	700	610	540		
		U	3280	2640	2220	1930	1710		
	3750	S	1160	930	790	690	610	550	
		U	3550	2860	2410	2090	1860	1680	
	3600	S	1310	1060	890	780	690	630	580
		U	3850	3110	2620	2280	2030	1840	1690
	3450	S	1490	1210	1020	890	800	720	670
		U	4200	3400	2870	2490	2220	2020	1860
	3300	S	1710	1390	1170	1030	920	840	780
		U	4600	3720	3150	2740	2450	2220	2050
	3150	S	1970	1600	1360	1190	1070	970	910
		U	5060	4100	3470	3030	2710	2470	2290
	3000	S	2290	1860	1580	1390	1250	1150	1070
		U	5590	4540	3840	3360	3010	2760	2560
	2850	S	2680	2180	1860	1640	1480	1360	1270
		U	6220	5050	4290	3760	3380	3100	2890
	2700	S	3160	2580	2210	1950	1760	1630	1540
		U	6950	5650	4810	4230	3820	3520	3300
$I_{xx} = 2272 \times 10^3 \text{ mm}^4$	Mullion centres		800	1000	1200	1400	1600	1800	2000

Tables are based on theoretical section properties



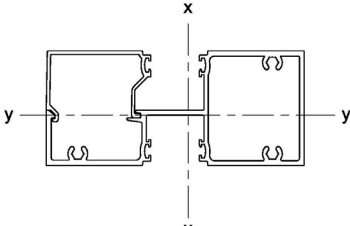
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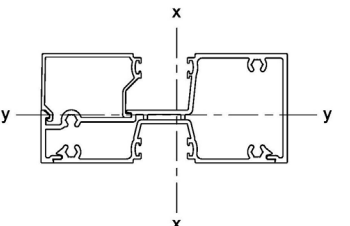
ME25 Hollow Transom & ME2 + ME4 Transom

Max Stress = 110Mpa

S = Serviceability limit state l/250

U = Ultimate limit state

ME25 HOLLOW TRANSOM	Transom Centres	Maximum Design Loads (Pa)							
	1650	S	3000	2920	2360	1800	1540	1240	1070
		U	5620	4390	3550	2700	2310	1860	1540
	1500	S	3000	3000	2630	1950	1580	1460	1120
		U	6250	4870	3950	3000	2380	1940	1620
	1350	S	3000	3000	2670	2070	1660	1540	1200
		U	6948	5420	4010	3110	2500	2060	1730
	1200	S	3000	3000	2790	2200	1780	1660	1300
		U	7720	5520	4190	3300	2680	2230	1880
	1050	S	3000	3000	3000	2400	1960	1830	1440
		U	7900	5820	4500	3600	2950	2460	2090
	900	S	3000	3000	3000	2687	2220	2060	1630
		U	8450	6370	4990	4030	3330	2800	2380
	Max Kg		100	100	100	100	100	80	64
$I_{xx} = 597 \times 10^3 \text{ mm}^4$ $I_{yy} = 143 \times 10^3 \text{ mm}^4$	Transom length		1200	1350	1500	1650	1800	1950	2100

ME2 + ME4 TRANSOM	Transom Centres	Maximum Design Loads (Pa)							
	1650	S	3000	3000	3000	3000	2310	1710	1310
		U	6560	5580	4510	3770	2930	2360	1950
	1500	S	3000	3000	3000	3000	2370	1780	1370
		U	7290	6200	5020	3820	3020	2460	2050
	1350	S	3000	3000	3000	3000	2480	1880	1460
		U	8100	6890	5090	3950	3180	2620	2200
	1200	S	3000	3000	3000	3000	2650	2020	1580
		U	9000	7010	5320	4200	3410	2830	2390
	1050	S	3000	3000	3000	3000	2890	2230	1750
		U	9000	7390	5710	4570	3740	3130	2660
	900	S	3000	3000	3000	3000	3000	2510	1990
		U	9000	8080	6340	5120	4220	3550	3030
	Max Kg		100	100	100	77	60	47	38
$I_{xx} = 727 \times 10^3 \text{ mm}^4$ $I_{yy} = 84 \times 10^3 \text{ mm}^4$	Transom length		1200	1350	1500	1650	1800	1950	2100

Tables are based on theoretical section properties

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

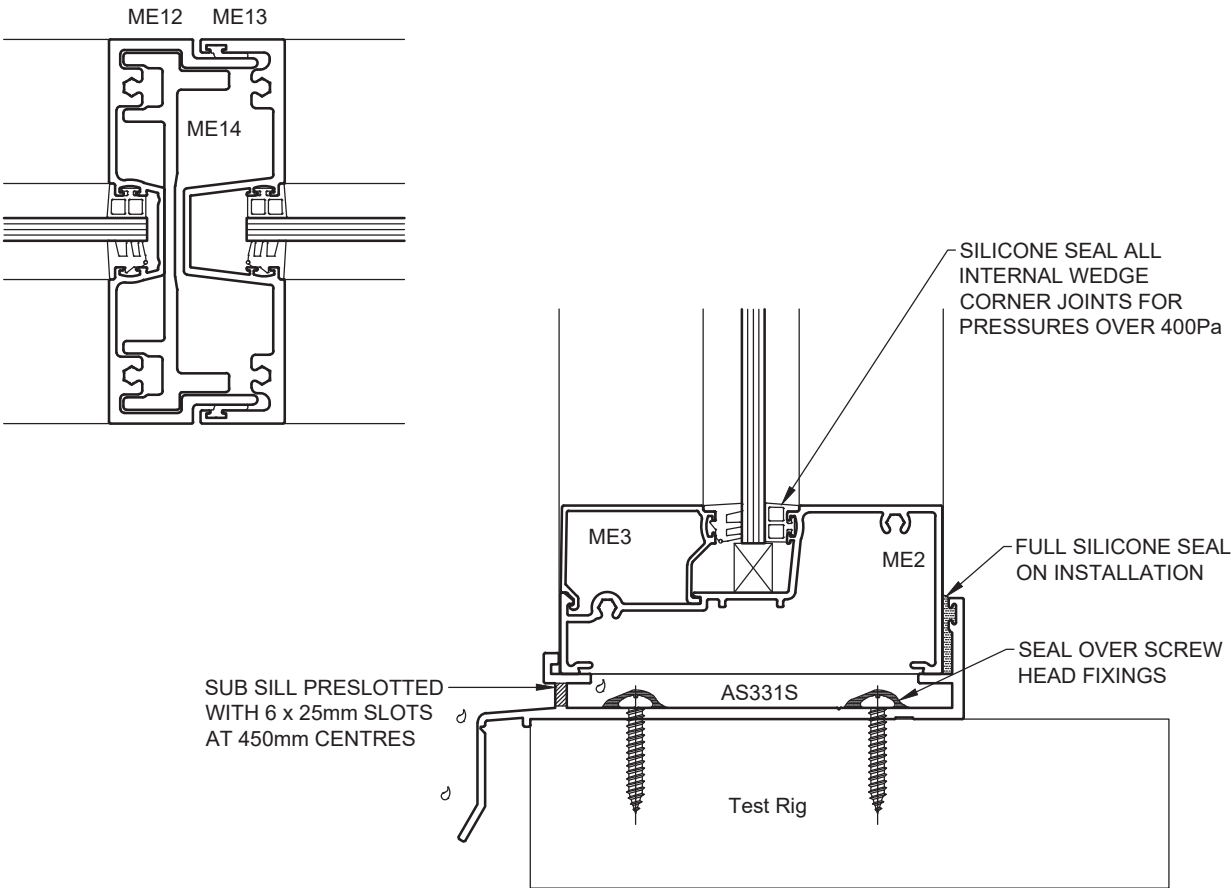


4. Test Summary

AS2047 - Fixed/ Fixed

TEST REPORT:	AS14-228
SYSTEM CONFIGURATION	McARTHUR EVO F/F MULLION AND SPLICE
TEST SAMPLE SIZE	3200 H x 2000 W
SERVICEABILITY LOAD	+/- 1650 Pa
ULTIMATE LOAD	+/- 4090 Pa
WATER PENETRATION	1015 Pa
AIR INFILTRATION	75Pa + 0.03 L/s/ms ² - 0.17 L/s/ms ²
	150Pa + 0.02 L/s/ms ² - 0.48 L/s/ms ²

HEAVY SPLIT MULLION
COMBINATION WITH SPLICE

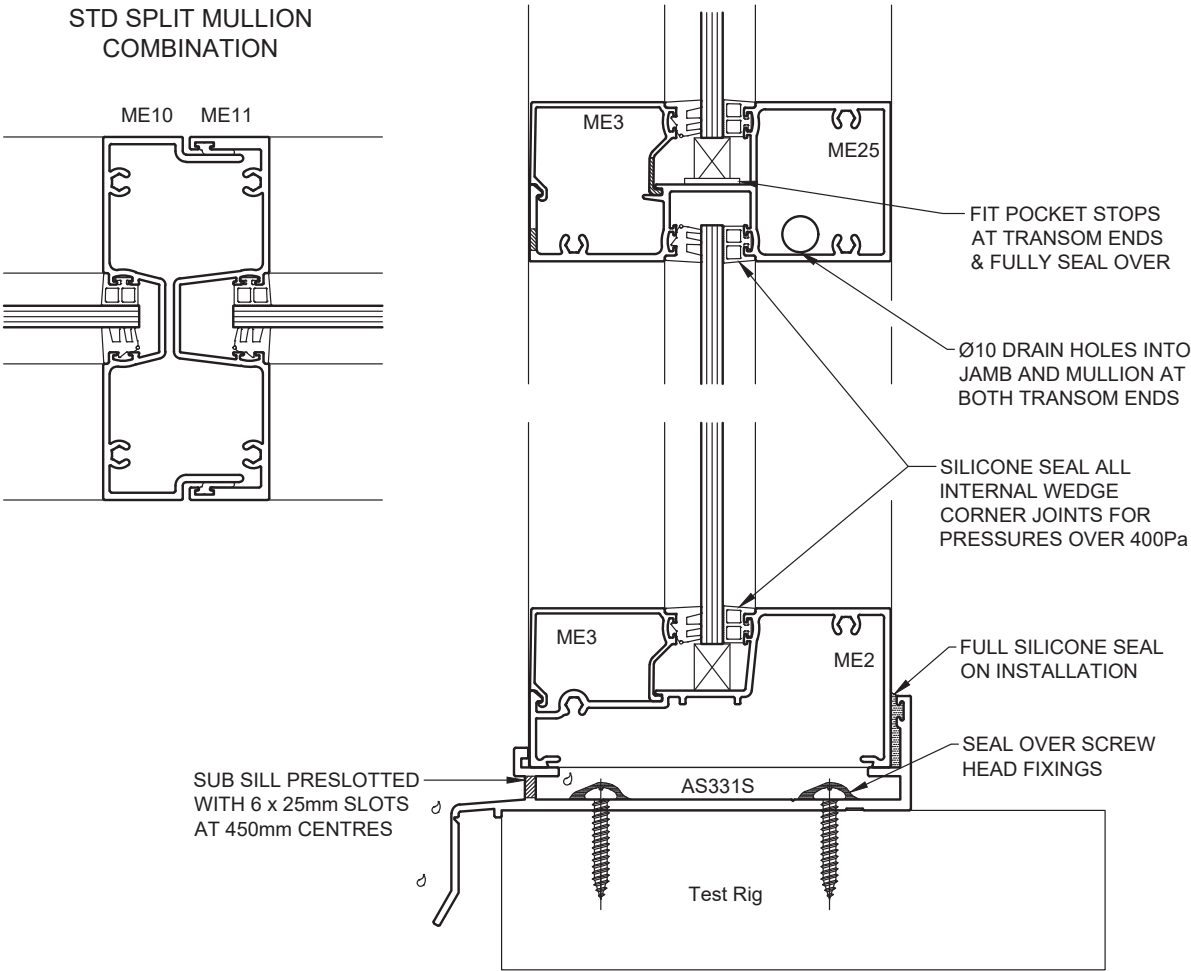


DISCLAIMER:
Please note that the test results shown above reflect specific configurations of a system and are representative only. If a specific high wind load or a different configuration (i.e. changes to frames, transoms, mullions) is required on a project please discuss with Alspec prior to commencement.

4. Test Summary

AS2047 - Fixed/ Fixed

TEST REPORT:	AS14-229
SYSTEM CONFIGURATION	McARTHUR EVO F/F WITH STD SPLIT MULLION
TEST SAMPLE SIZE	3200 H x 2000 W
SERVICEABILITY LOAD	+/- 1000 Pa
ULTIMATE LOAD	+/- 3010 Pa
WATER PENETRATION	1000 Pa
AIR INFILTRATION	75Pa + 0.02 L/s/ms ² - 0.19 L/s/ms ²
	150Pa + 0.02 L/s/ms ² - 0.44 L/s/ms ²



DISCLAIMER:

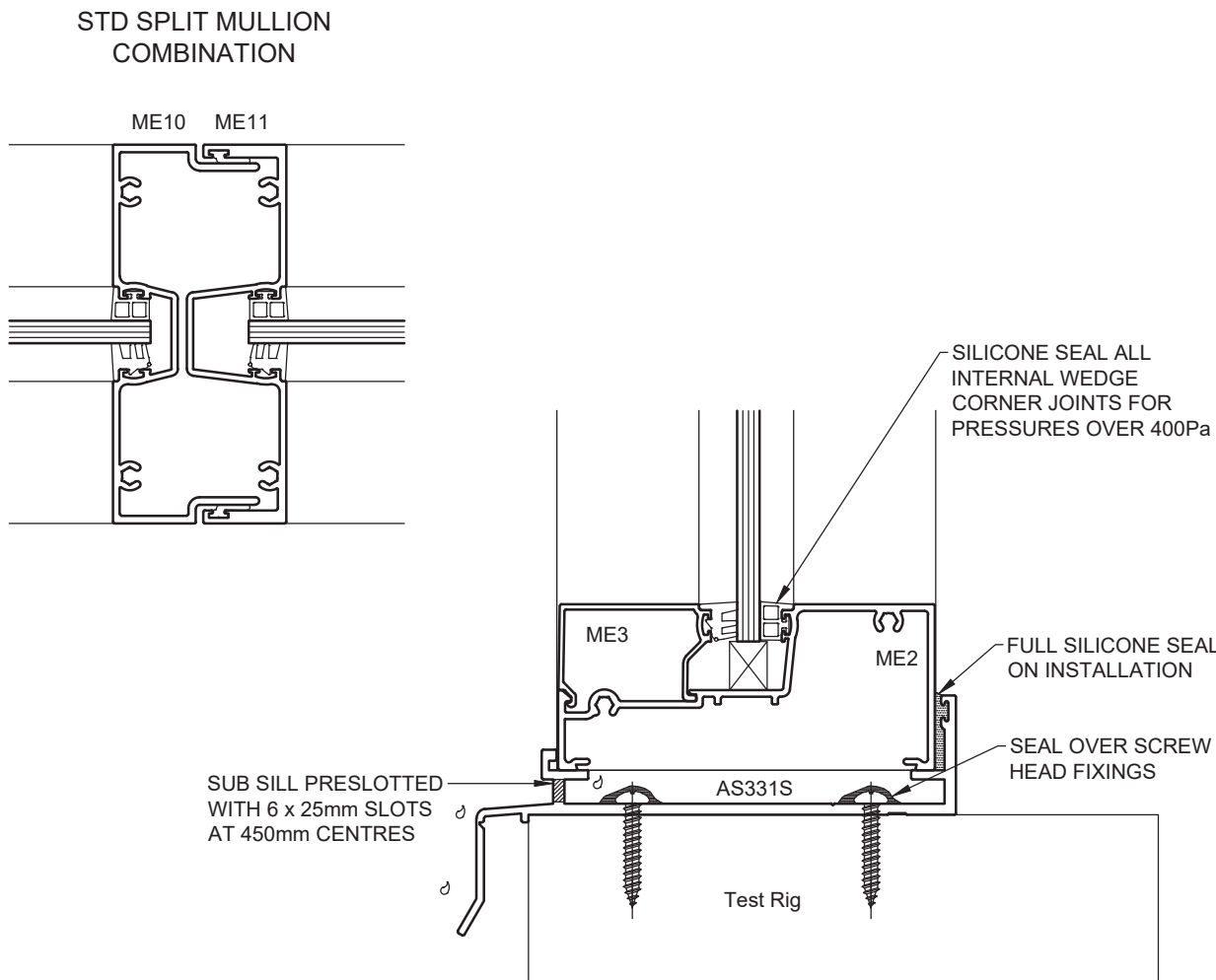
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4. Test Summary

AS2047 - Fixed/ Fixed

TEST REPORT:	AS14-232
SYSTEM CONFIGURATION	McARTHUR EVO F/F WITH STD SPLIT MULLION
TEST SAMPLE SIZE	2100 H x 2000 W
SERVICEABILITY LOAD	+/- 3128 Pa
ULTIMATE LOAD	+/- 5350 Pa
WATER PENETRATION	1000 Pa
AIR INFILTRATION	75Pa + 0.05 L/s/ms ² - 0.12 L/s/ms ²
	150Pa + 0.08 L/s/ms ² - 0.11 L/s/ms ²



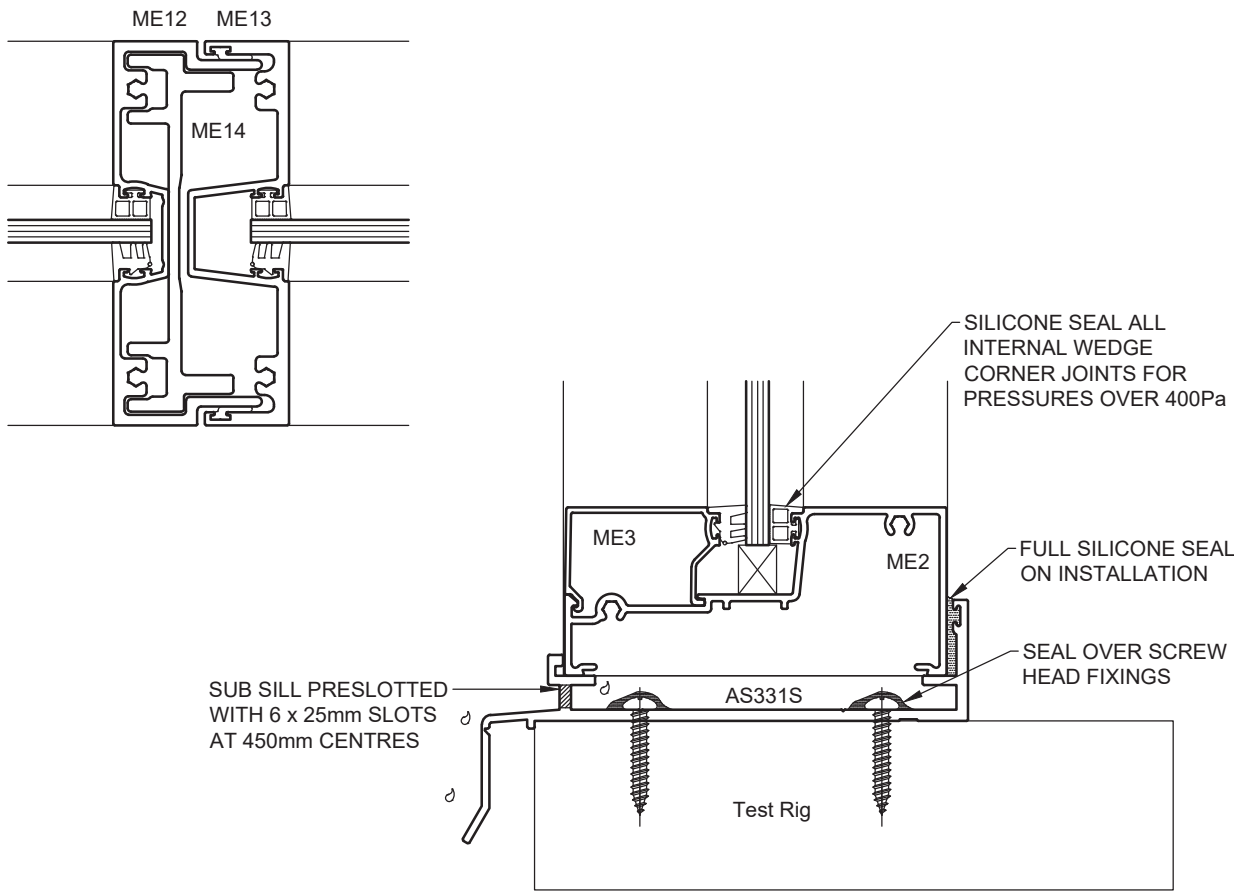
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4. Test Summary

AS2047 - Fixed/ Fixed over Fixed/ Fixed

TEST REPORT:	AS14-231		
SYSTEM CONFIGURATION	McARTHUR EVO F/F-F/F WITH HD MULLION AND SPLICE, AND ME25 TRANSOM		
TEST SAMPLE SIZE	2100 H x 2000 W		
SERVICEABILITY LOAD	+/- 3000 Pa		
ULTIMATE LOAD	+/- 7260 Pa		
WATER PENETRATION	1010 Pa		
AIR INFILTRATION	75Pa	+ 0.04 L/s/ms ²	- 0.19 L/s/ms ²
	150Pa	+ 0.06 L/s/ms ²	- 0.11 L/s/ms ²

HEAVY SPLIT MULLION
COMBINATION WITH SPLICE



DISCLAIMER:

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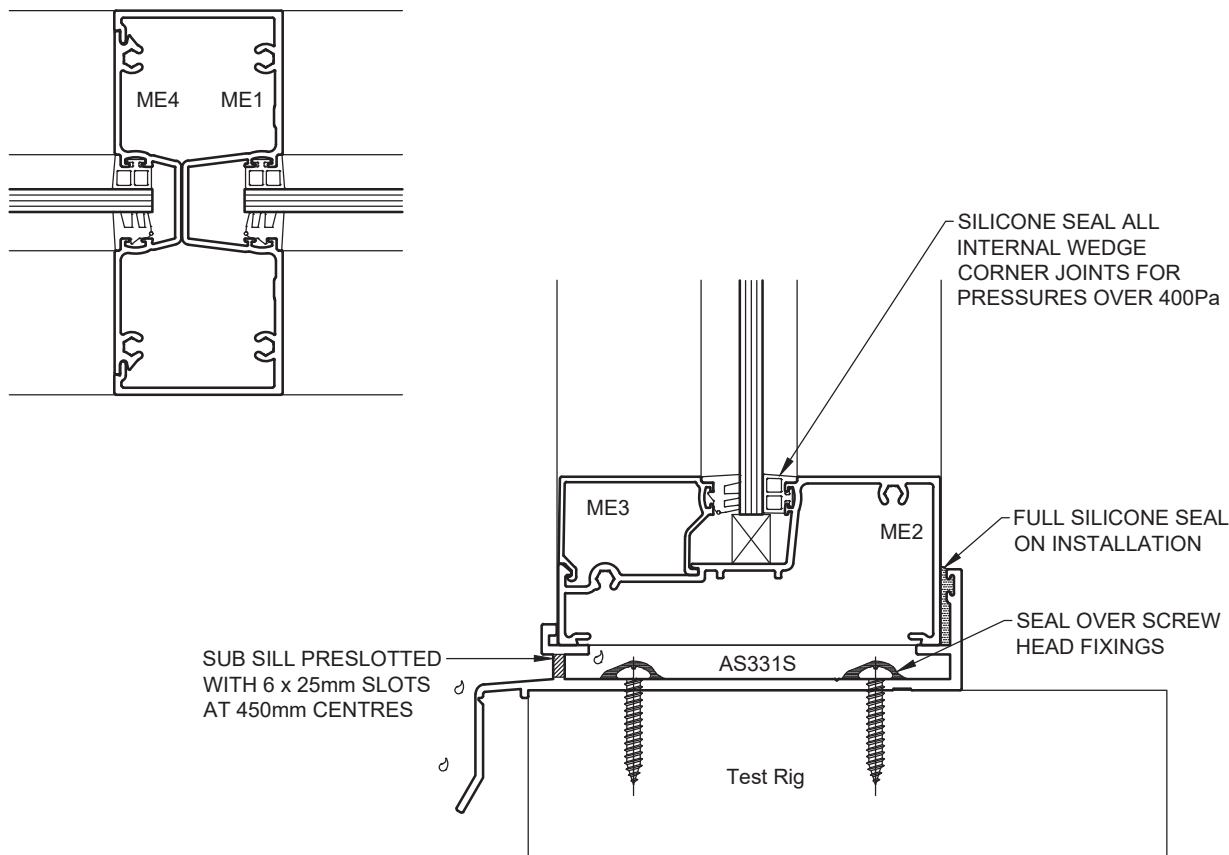


4. Test Summary

AS2047 - Fixed/ Fixed

TEST REPORT:	AS14-233		
SYSTEM CONFIGURATION	McARTHUR EVO F/F WITH FRAME / ADAPTOR MULLION		
TEST SAMPLE SIZE	2100 H x 2000 W		
SERVICEABILITY LOAD	+/- 2110 Pa		
ULTIMATE LOAD	+/- 4120 Pa		
WATER PENETRATION	815 Pa		
AIR INFILTRATION	75Pa	+ 0.09 L/s/ms ²	- 0.19 L/s/ms ²
	150Pa	+ 0.05 L/s/ms ²	- 0.15 L/s/ms ²

FRAME & ADAPTOR MULLION
COMBINATION



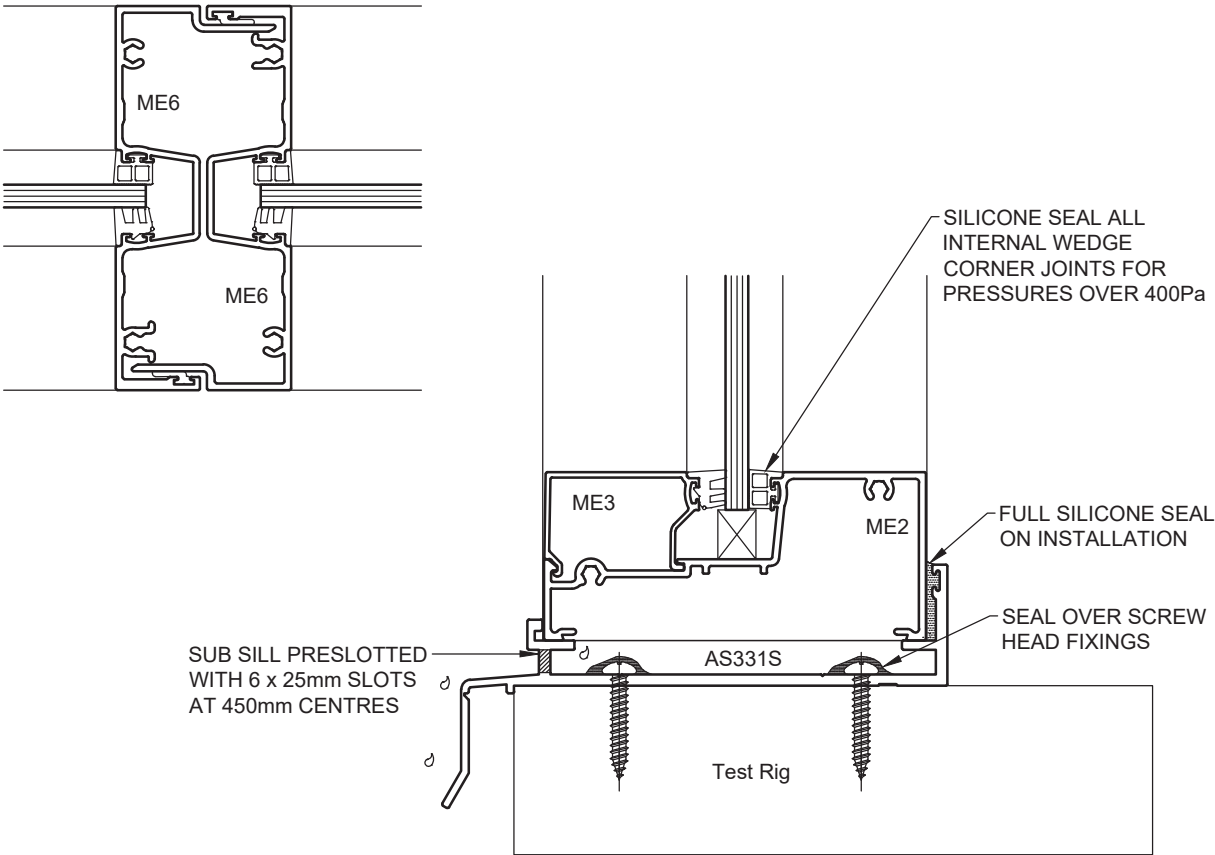
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4. Test Summary

AS2047 - Fixed/ Fixed

TEST REPORT:	AS14-234		
SYSTEM CONFIGURATION	McARTHUR EVO F/F WITH SELF MATING MULLION		
TEST SAMPLE SIZE	2100 H x 2000 W		
SERVICEABILITY LOAD	+/- 3110 Pa		
ULTIMATE LOAD	+/- 5350 Pa		
WATER PENETRATION	1005 Pa		
AIR INFILTRATION	75Pa	+ 0.04 L/s/ms ²	- 0.04 L/s/ms ²
	150Pa	+ 0.06 L/s/ms ²	- 0.11 L/s/ms ²

SELF MATING MULLION
COMBINATION



DISCLAIMER:

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4. Test Summary

Acoustic - AS/NZS ISO 717.1

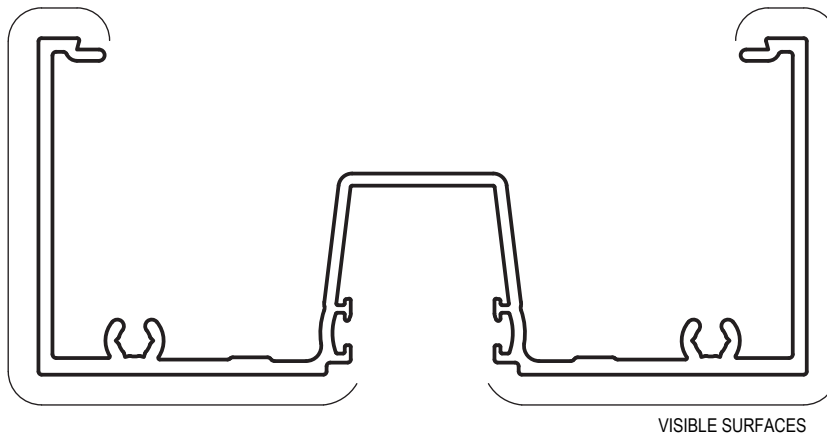
TEST REPORT	PRODUCT DESCRIPTION	SIZE	GLASS	Rw
14-106	McARTHUR EVO FIXED / 45mm SWAN EVO HINGED DOOR	2.1m (H) x 1.8m (W)	6.38mm LAMINATE	32
14-105	McARTHUR EVO FIXED / FIXED	2.1m (H) x 1.8m (W)	6.38mm LAMINATE	32
14-104	McARTHUR EVO FIXED OVER FIXED / AWNING OVER FIXED	2.1m (H) x 1.8m (W)	6.38mm LAMINATE	32
TL581-04-1	McARTHUR EVO 101.6 FIXED / FIXED	2.1m (H) x 1.8m (W)	12.5mm VLAM HUSH	38
TL636-14-1	McARTHUR EVO 101.6 FIXED / SWAN EVO HINGED DOOR	2.1m (H) x 1.8m (W)	10.5mm VLAM HUSH	35

BAL40 - 1530.8.1

TEST REPORT	DESCRIPTION	SIZE	SEALS	RESULT
FSZ1662A	McARTHUR EVO 101.6mm with 6mm CLEAR TOUGHENED GLASS	0.4m (H) x 0.8m (W)	GR47FR and GR46FR	BAL40
FRT230003.R1	McARTHUR EVO 101.6mm with 6mm CLEAR TOUGHENED GLASS	2.6m (H) x 2.6m (W)	GR47FR and CE49FR	BALAA40



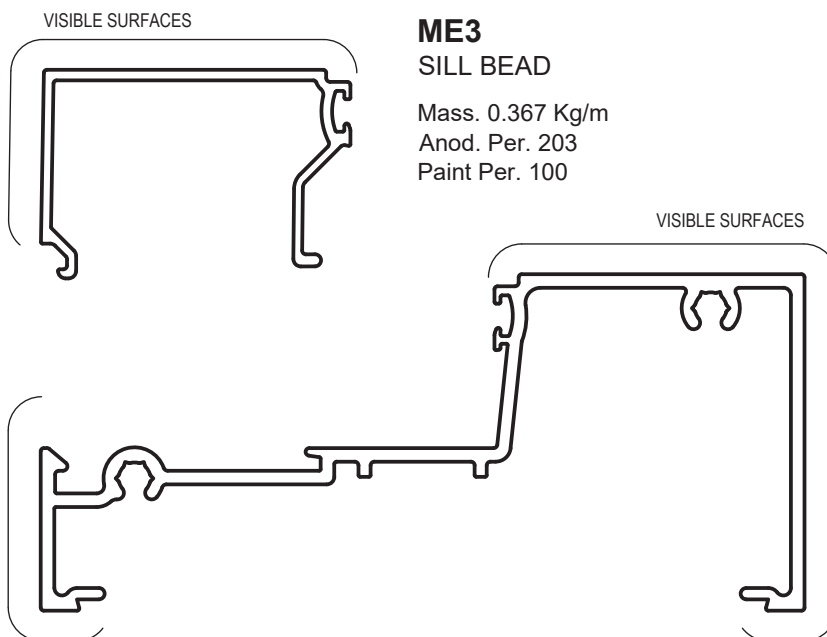
5. Extrusions



ME1 FRAME / JAMB

Mass. 1.365 Kg/m
Anod. Per. 560
Paint Per. 182

$I_{xx} = 695.7 \times 10^3 \text{ mm}^4$



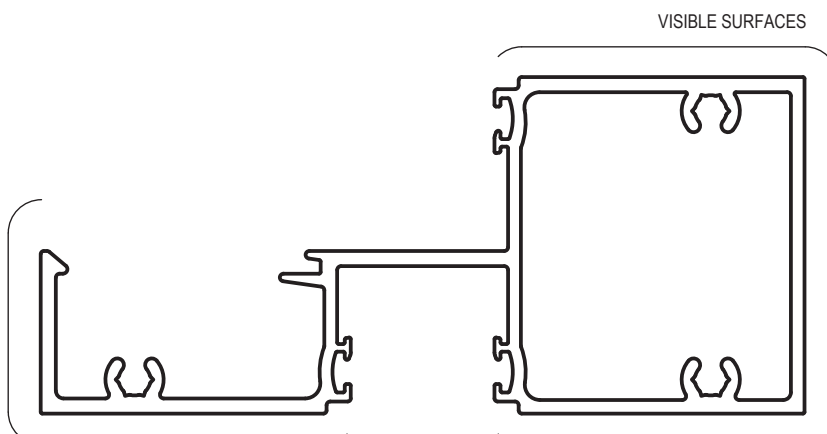
ME3 SILL BEAD

Mass. 0.367 Kg/m
Anod. Per. 203
Paint Per. 100

ME2 SILL

Mass. 1.133 Kg/m
Anod. Per. 464
Paint Per. 123

$I_{xx} = 539.6 \times 10^3 \text{ mm}^4$
 $I_{yy} = 75.9 \times 10^3 \text{ mm}^4$



ME25 HOLLOW TRANSOM

Mass. 1.571 Kg/m
Anod. Per. 437
Paint Per. 189

$I_{xx} = 597.0 \times 10^3 \text{ mm}^4$
 $I_{yy} = 143.0 \times 10^3 \text{ mm}^4$



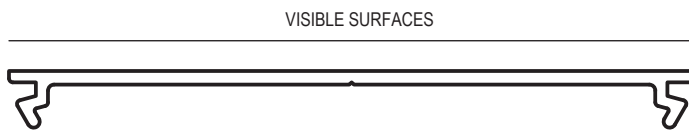
AS60

100mm INTERNAL COUPLER

Mass. 0.752 Kg/m

Anod. Per. 281

$I_{xx} = 249 \times 10^3 \text{ mm}^4$



AS5

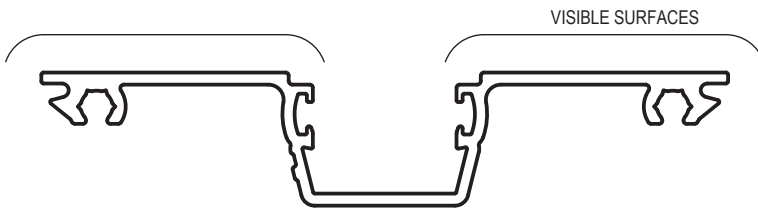
FLUSH ADAPTOR

Mass. 0.500 Kg/m

Anod. Per. 213

Paint Per. 100

$I_{xx} = 150.5 \times 10^3 \text{ mm}^4$



ME4

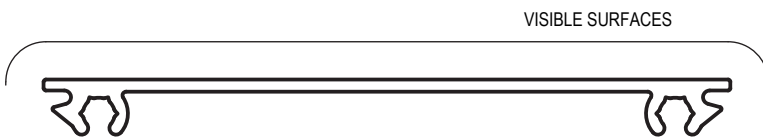
GLAZING ADAPTOR

Mass. 0.685 Kg/m

Anod. Per. 303

Paint Per. 100

$I_{xx} = 187.7 \times 10^3 \text{ mm}^4$



AS5F

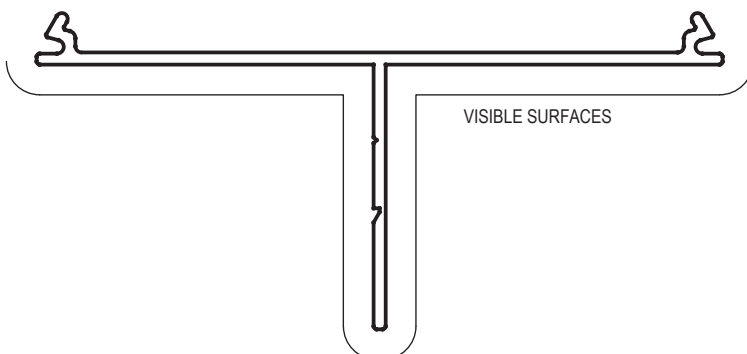
FLUSH ADAPTOR WITH
SCREW FLUTES

Mass. 0.538 Kg/m

Anod. Per. 231

Paint Per. 100

$I_{xx} = 180.0 \times 10^3 \text{ mm}^4$



ME27

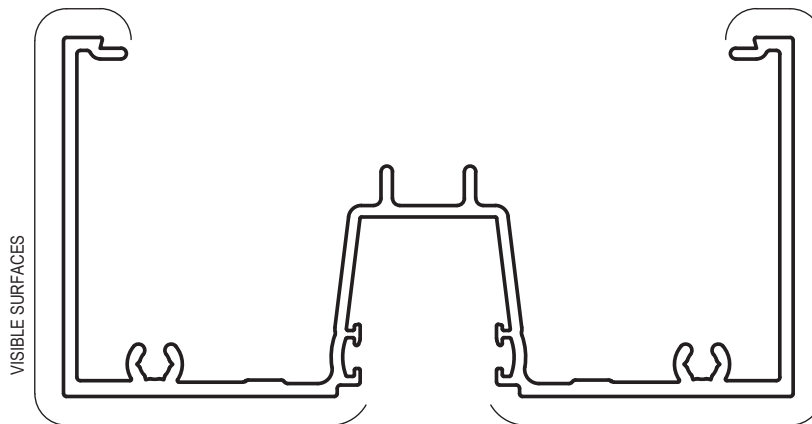
101.6mm FLASHING
ADAPTOR

Mass. 0.598 Kg/m

Anod. Per. 279

Paint Per. 161

$I_{xx} = 135.9 \times 10^3 \text{ mm}^4$



ME50

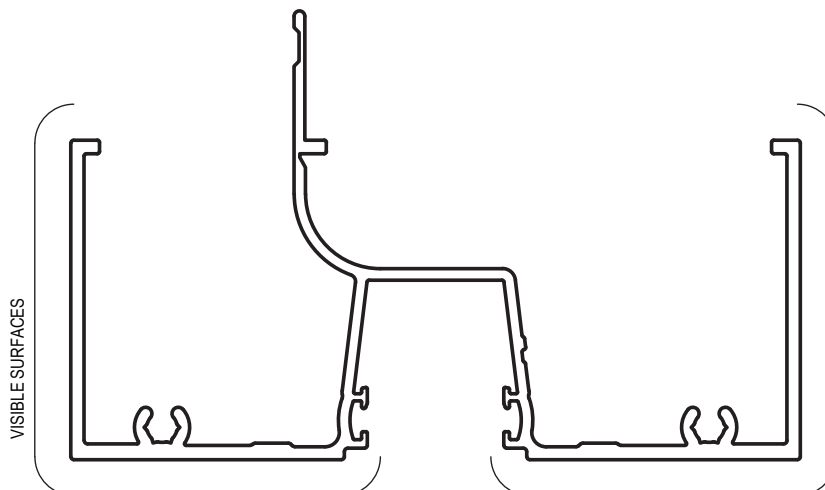
50mm FRAME / JAMB

Mass. 1.469 Kg/m

Anod. Per. 600

Paint Per. 188

$I_{xx} = 746.9 \times 10^3 \text{ mm}^4$



ME17

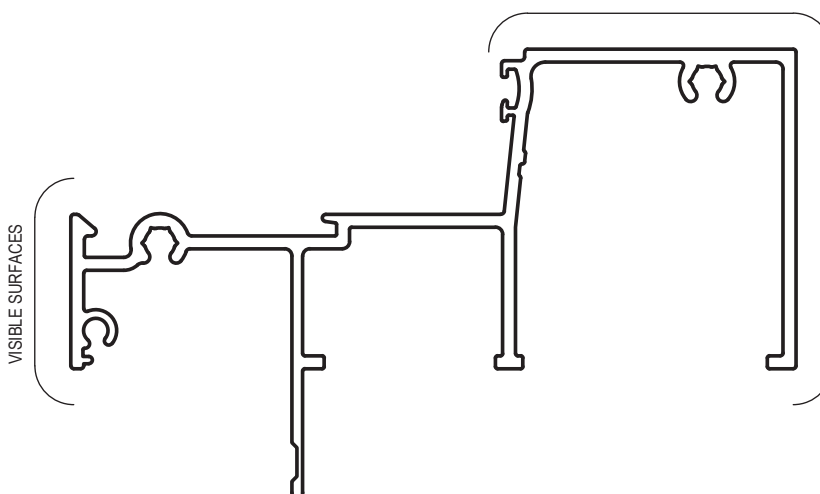
101.6mm REVEAL FRAME

Mass. 1.492 Kg/m

Anod. Per. 625

Paint Per. 170

$I_{xx} = 678.55 \times 10^3 \text{ mm}^4$



ME18

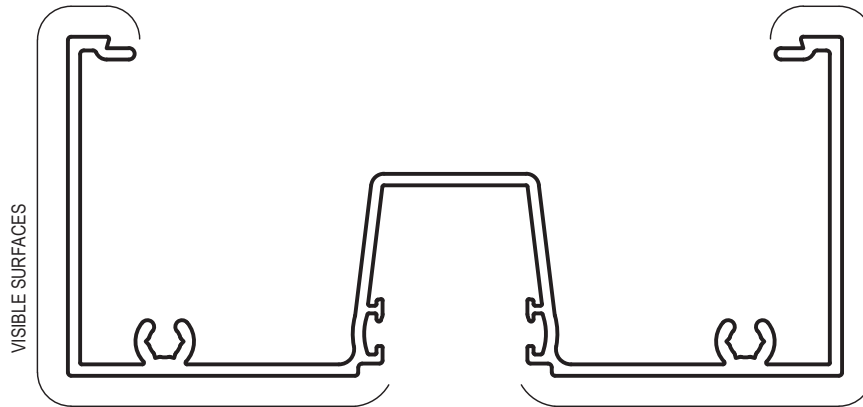
101.6mm REVEAL SILL

Mass. 1.342 Kg/m

Anod. Per. 567

Paint Per. 105

$I_{xx} = 551.98 \times 10^3 \text{ mm}^4$



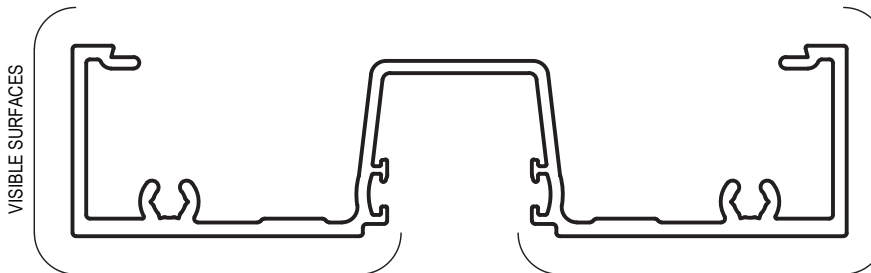
ME31
LIGHT DUTY FRAME

Mass. 1.198 Kg/m

Anod. Per. 567

Paint Per. 182

$I_{xx} = 607.3 \times 10^3 \text{ mm}^4$

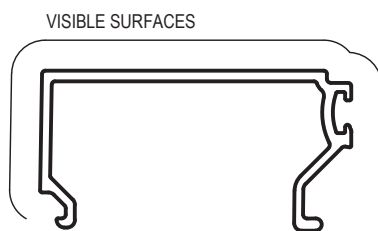


ME24
25mm NARROW FRAME

Mass. 1.140 Kg/m

Anod. Per. 468

Paint Per. 127

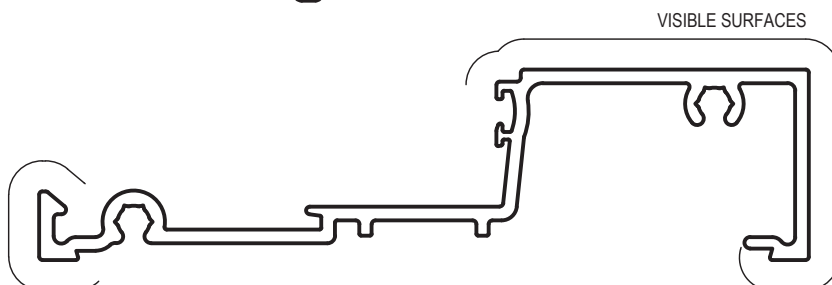


ME53*
25mm SILL BEAD

Mass. 0.325 Kg/m

Anod. Per. 178

Paint Per. 100



ME52*
25mm SILL

Mass. 0.931 Kg/m

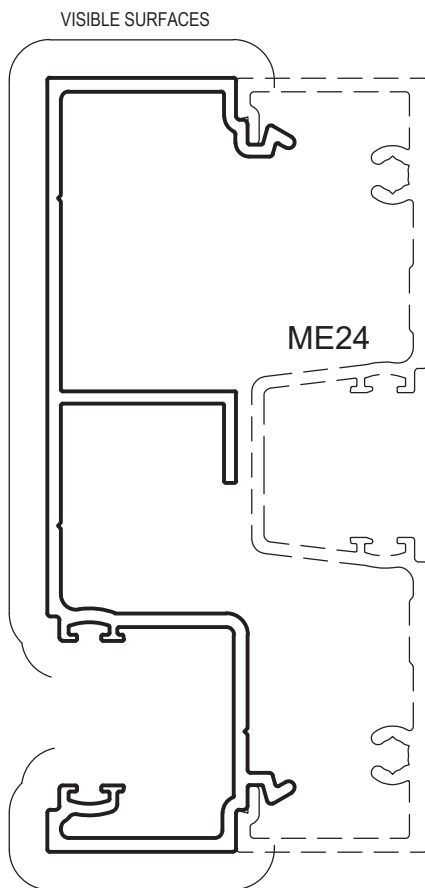
Anod. Per. 379

Paint Per. 100

$I_{xx} = 377.6 \times 10^3 \text{ mm}^4$

$I_{yy} = 25.8 \times 10^3 \text{ mm}^4$

* INTERNAL USE ONLY



HE334

25mm NARROW JAMB
ADAPTOR (HUNTER EVO)

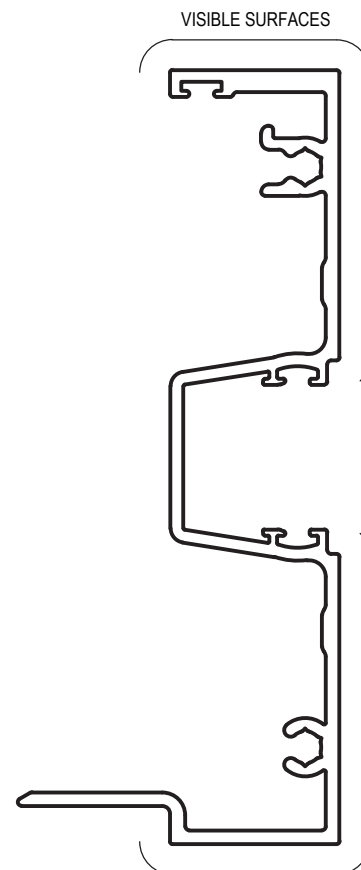
Mass. 1.182 Kg/m

Anod. Per. 508

Paint Per. 163

Ixx = $517.0 \times 10^3 \text{ mm}^4$

CLIPS TO ALL 101.6mm FRAMES.
COMPATIBLE WITH ALTITUDE AND
PROGLIDE SLIDING DOOR JAMBS.



ME6

SELF MATING MULLION

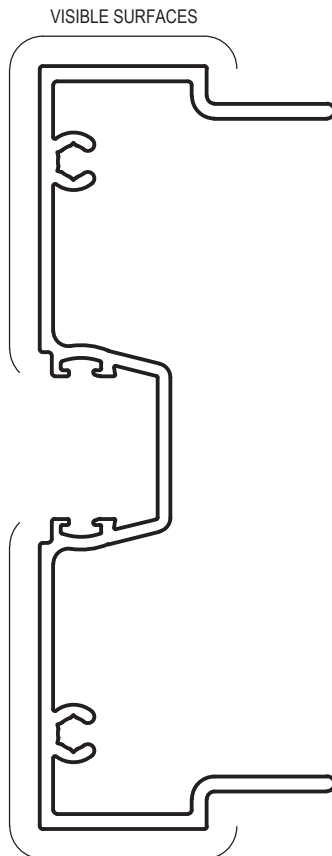
Mass. 1.221 Kg/m

Anod. Per. 495

Paint Per. 127

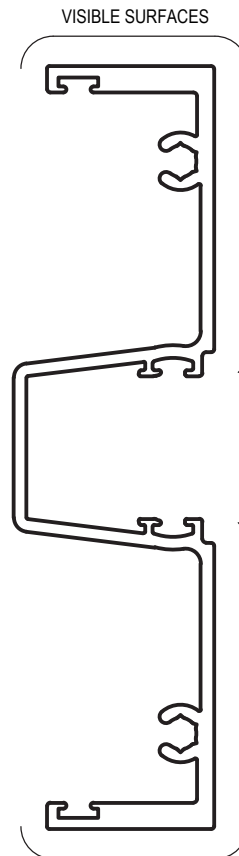
Ixx = $564.7 \times 10^3 \text{ mm}^4$

NOTE WHEN USING MULTIPLE SELF
MATING MULLIONS:
Glass edge cover in ME6 is limited to 8mm,
therefore a max glass thickness of 10.38mm
applies per AS1288



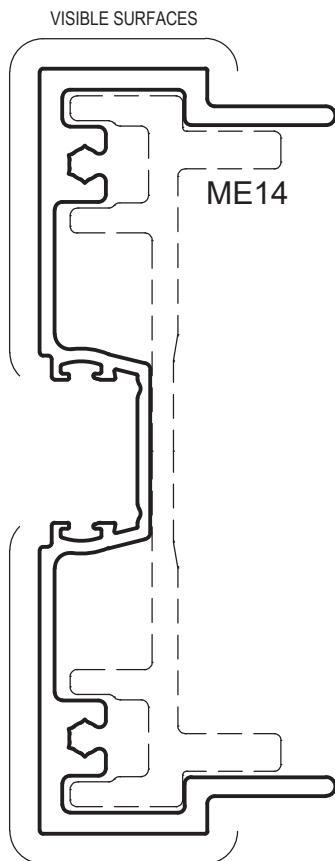
ME10
MALE MULLION

Mass. 1.212 Kg/m
Anod. Per. 486
Paint Per. 127
 $I_{xx} = 600.8 \times 10^3 \text{ mm}^4$



ME11
FEMALE MULLION

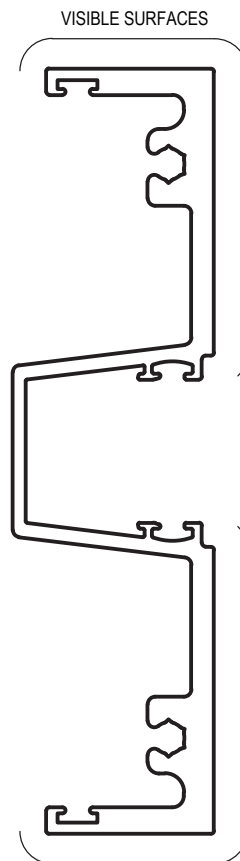
Mass. 1.205 Kg/m
Anod. Per. 453
Paint Per. 127
 $I_{xx} = 545.0 \times 10^3 \text{ mm}^4$



ME12
HD MALE MULLION

Mass. 1.582 Kg/m
Anod. Per. 474
Paint Per. 127

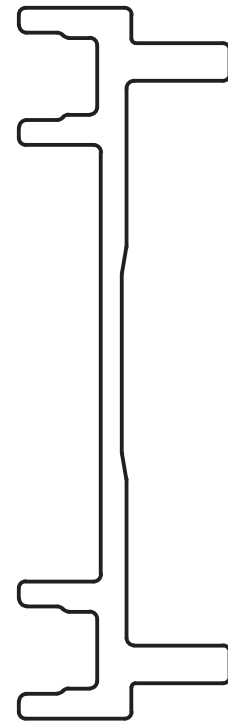
$I_{xx} = 853.5 \times 10^3 \text{ mm}^4$



ME13
HD FEMALE MULLION

Mass. 1.591 Kg/m
Anod. Per. 443
Paint Per. 127

$I_{xx} = 698.5 \times 10^3 \text{ mm}^4$



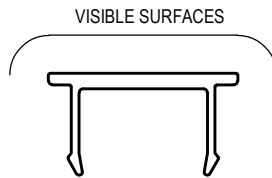
ME14
HD MULLION SPLICE
(SLIDE IN)

Mass. 1.667 Kg/m
Anod. Per. 325

$I_{xx} = 720.0 \times 10^3 \text{ mm}^4$

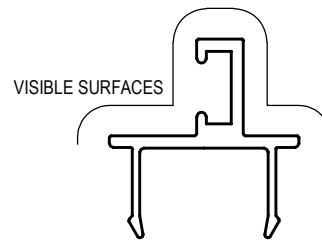
NOTE: SUPPLIED IN
ANODISED FINISH ONLY

5. Extrusions



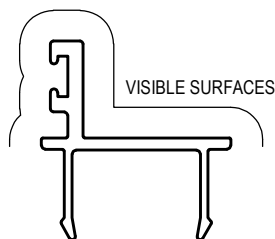
ME8
POCKET FILLER

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



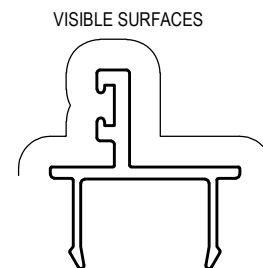
ME7
45mm DOOR STOP

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



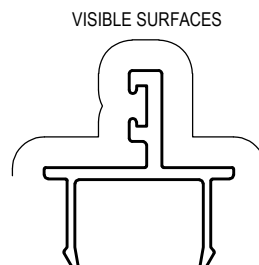
ME35
35mm DOOR STOP

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



ME40
40mm DOOR STOP

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

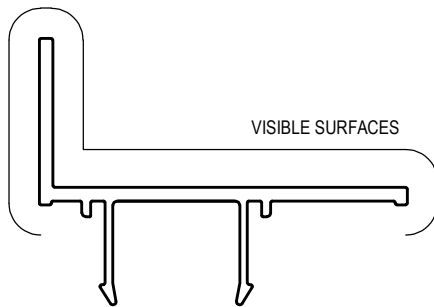


ME45
45mm DOOR STOP

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

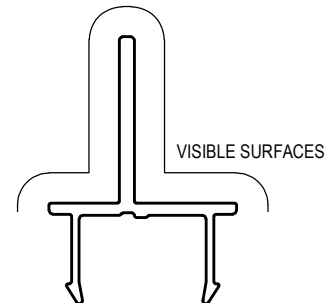


5. Extrusions



ME32
35mm SASH ADAPTOR

Mass. 0.430 Kg/m
Anod. Per. 204
Paint Per. 100

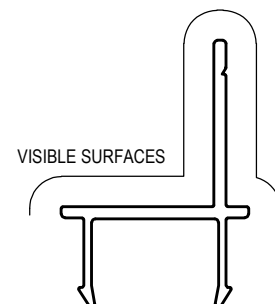
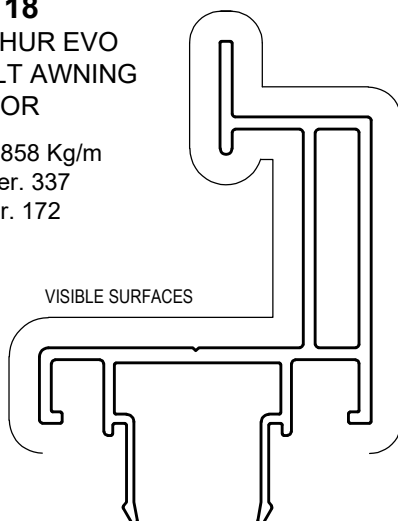


ME30
50mm SASH ADAPTOR

Mass. 0.293 Kg/m
Anod. Per. 143
Paint Per. 100

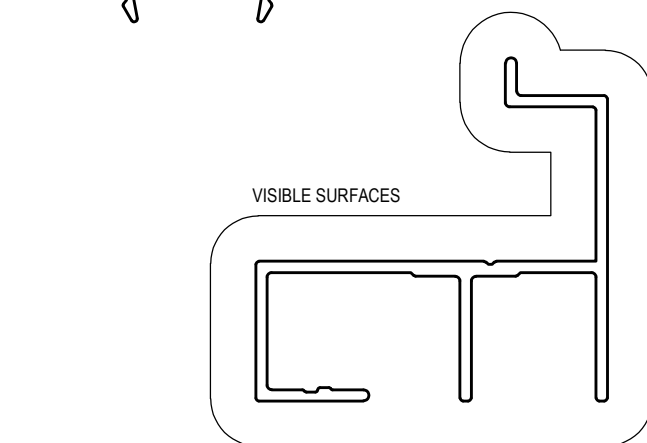
ASW118
McARTHUR EVO
PROTILT AWNING
ADAPTOR

Mass. 0.858 Kg/m
Anod. Per. 337
Paint Per. 172



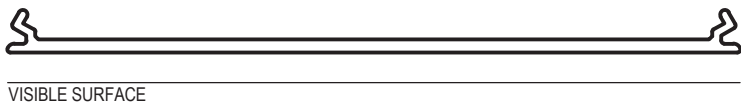
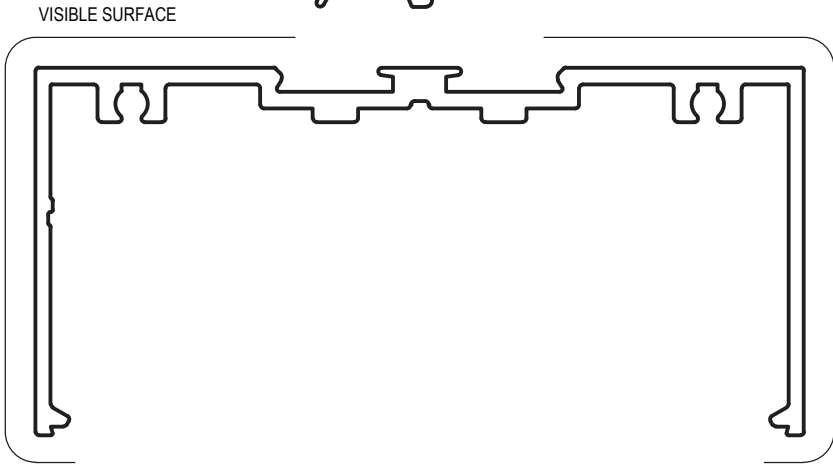
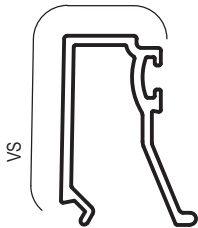
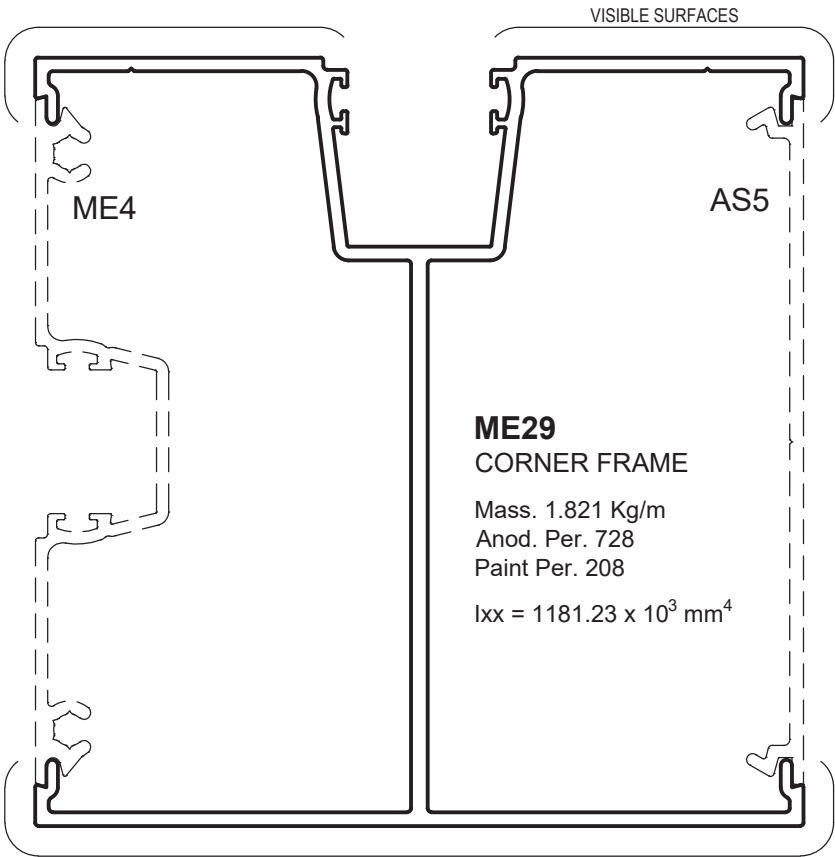
ME33
443 SASH ADAPTOR

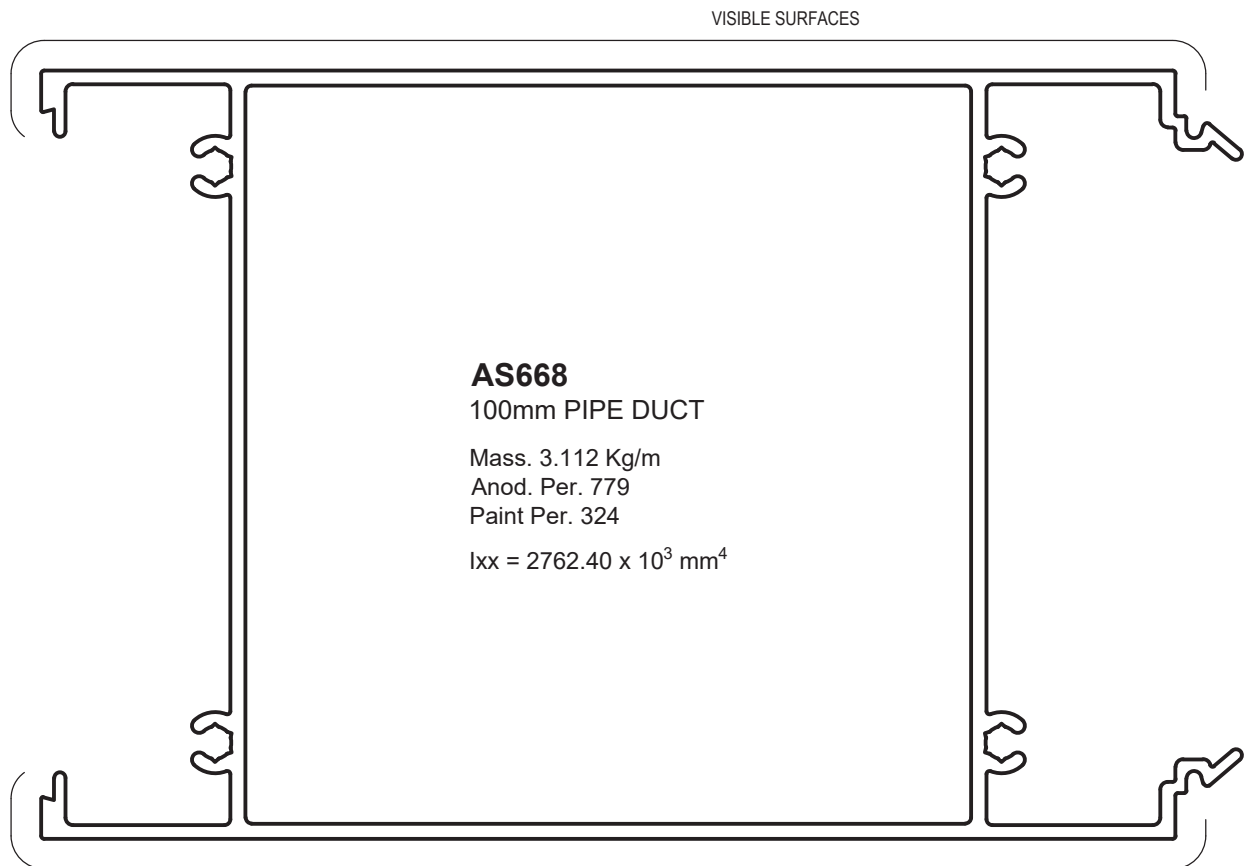
Mass. 0.268 Kg/m
Anod. Per. 143
Paint Per. 100



ASW43
AWNING WINDER
ADAPTOR

Mass. 0.624 Kg/m
Anod. Per. 299
Paint Per. 160

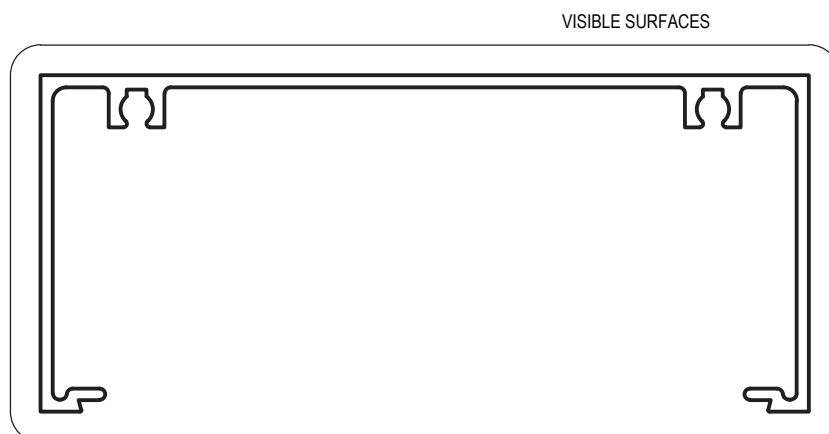




AS23
25mm PLAIN FRAME

Mass. 0.961 Kg/m
Anod. Per. 367
Paint Per. 163

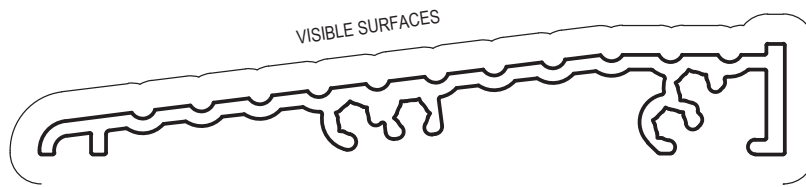
$I_{xx} = 513.44 \times 10^3 \text{ mm}^4$



AS24
PLAIN FRAME

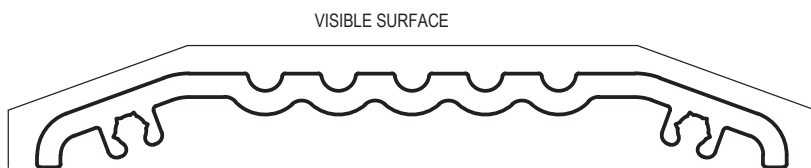
Mass. 1.010 Kg/m
Anod. Per. 446
Paint Per. 201

$I_{xx} = 606.3 \times 10^3 \text{ mm}^4$



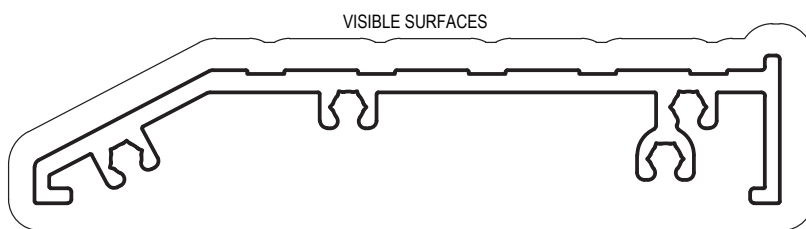
AD008
101.6mm DISABLED ACCESS
THRESHOLD

Mass. 0.953 Kg/m
Anod. Per. 330
Paint Per. 129



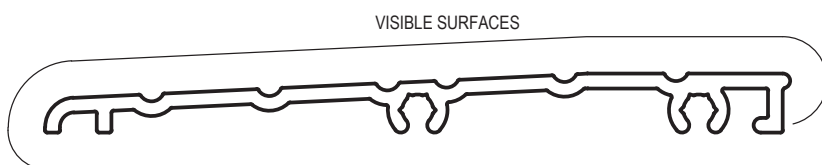
AS1853
101.6mm THRESHOLD

Mass. 1.136 Kg/m
Anod. Per. 277
Paint Per. 131



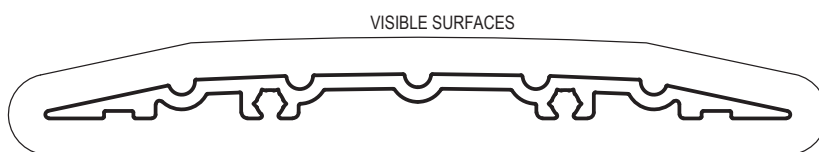
AS1852
101mm THRESHOLD

Mass. 1.177 Kg/m
Anod. Per. 356
Paint Per. 135



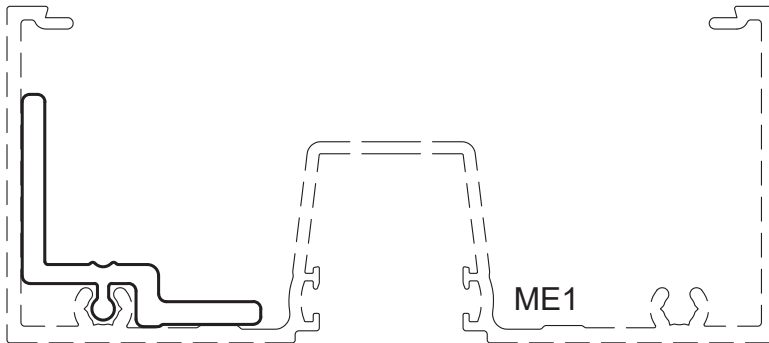
AS1800
100mm DISABLED ACCESS
THRESHOLD

Mass. 0.740 Kg/m
Anod. Per. 272
Paint Per. 111



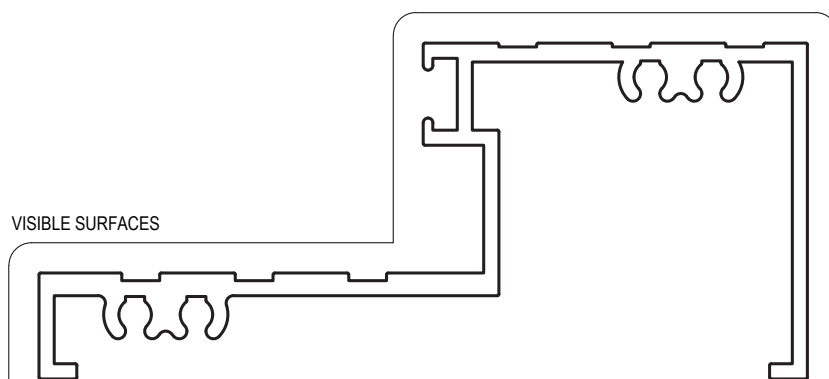
AS1801
100mm LOW PROFILE
THRESHOLD

Mass. 0.674 Kg/m
Anod. Per. 253
Paint Per. 113



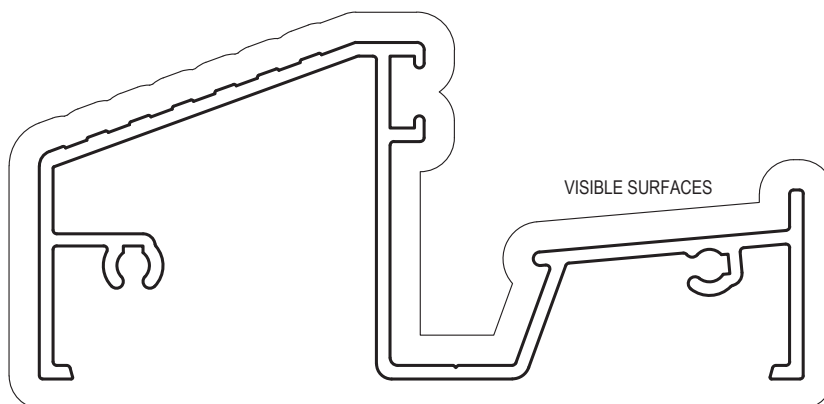
AD001
HINGE BACKING
PLATE

Mass. 0.483 Kg/m
Anod. Per. 131
NO VISIBLE SURFACE



AS2366
45mm DOOR THRESHOLD
OUTWARD OPENING

Mass. 1.552 Kg/m
Anod. Per. 491
Paint Per. 239

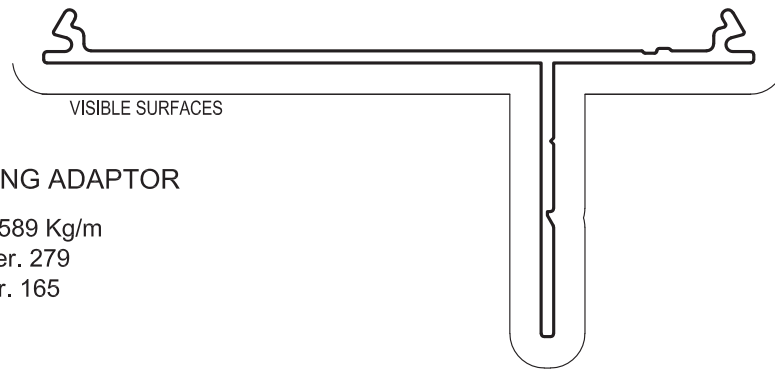


AS2371
45mm DOOR THRESHOLD
INWARD OPENING

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

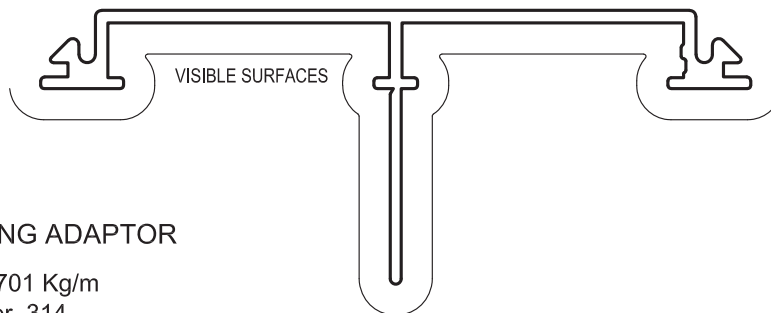


5. Extrusions



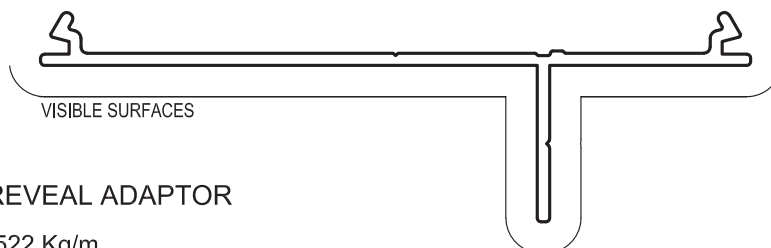
AS21
FLASHING ADAPTOR

Mass. 0.589 Kg/m
Anod. Per. 279
Paint Per. 165



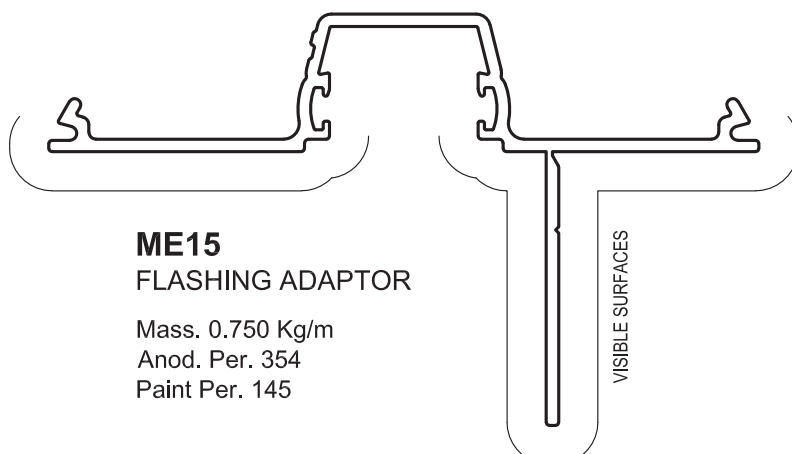
AS20
FLASHING ADAPTOR

Mass. 0.701 Kg/m
Anod. Per. 314
Paint Per. 190



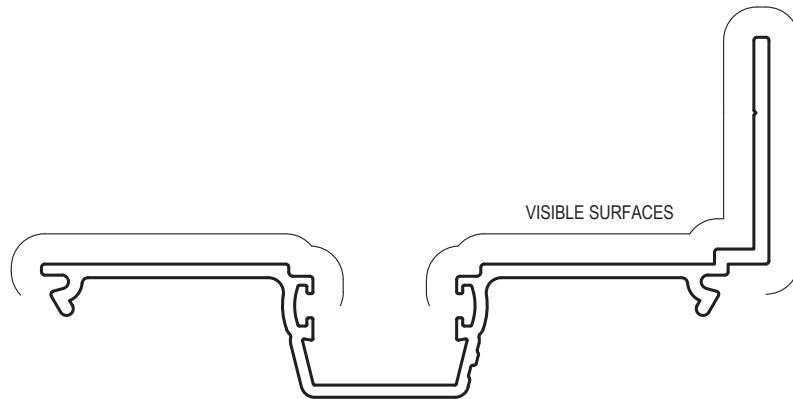
AS221
20mm REVEAL ADAPTOR

Mass. 0.522 Kg/m
Anod. Per. 250
Paint Per. 100



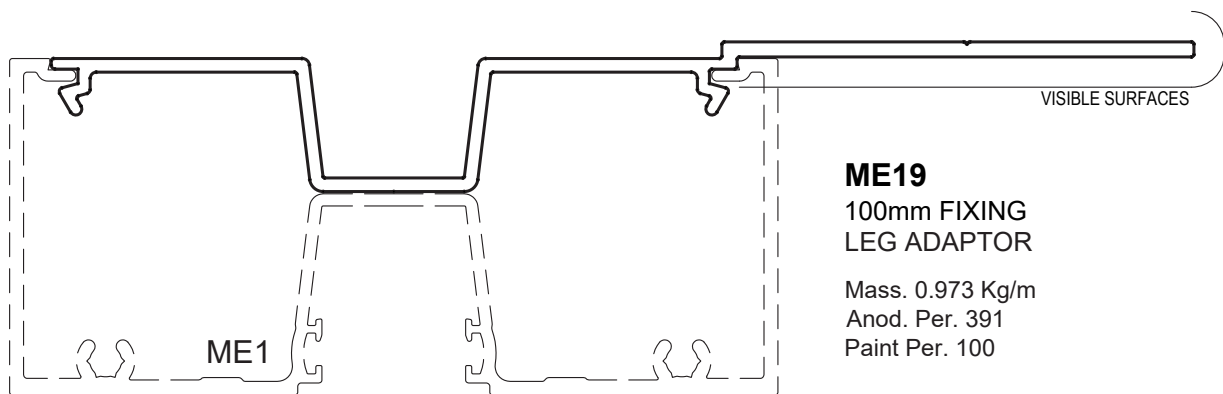
ME15
FLASHING ADAPTOR

Mass. 0.750 Kg/m
Anod. Per. 354
Paint Per. 145



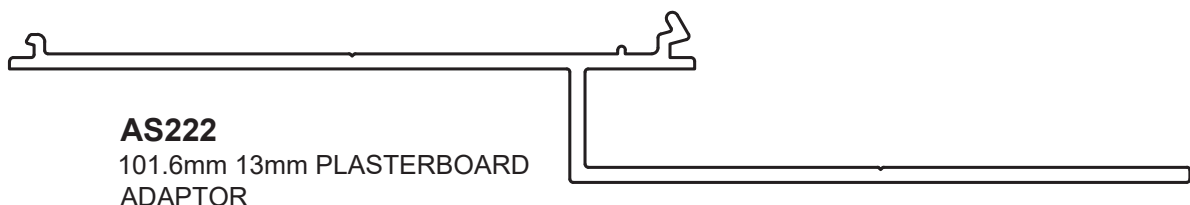
ME48
90 DEGREE FIXING
ADAPTOR

Mass. 0.829 Kg/m
Anod. Per. 352
Paint Per. 142



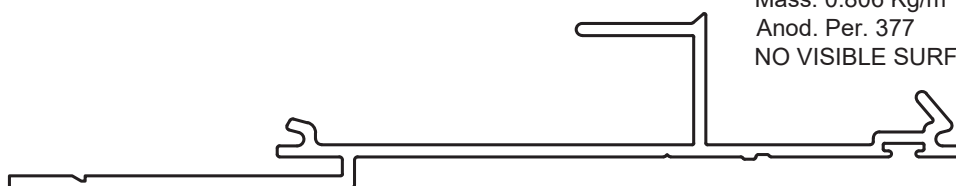
ME19
100mm FIXING
LEG ADAPTOR

Mass. 0.973 Kg/m
Anod. Per. 391
Paint Per. 100



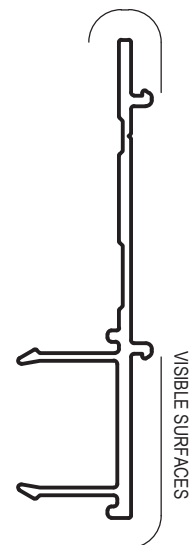
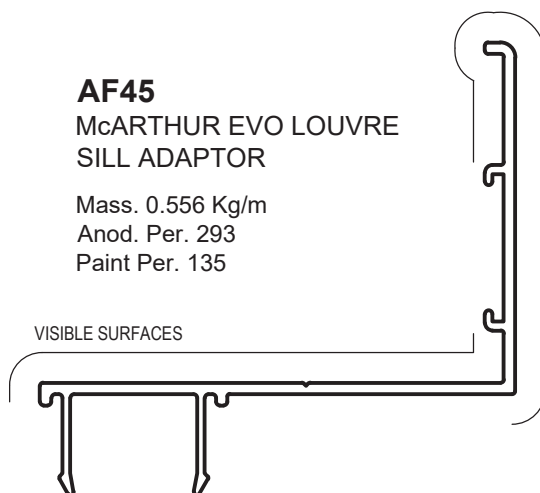
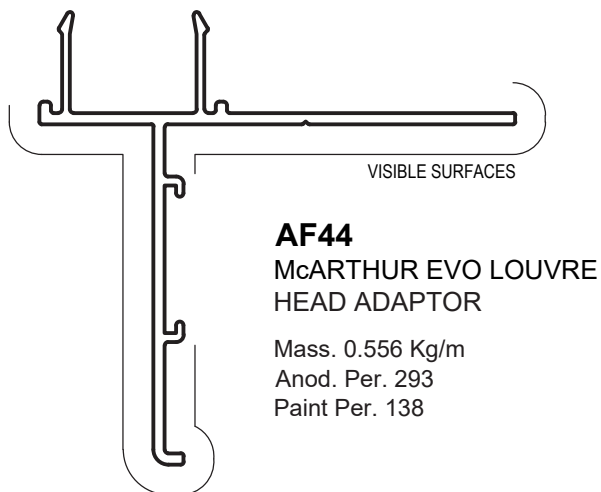
AS222
101.6mm 13mm PLASTERBOARD
ADAPTOR

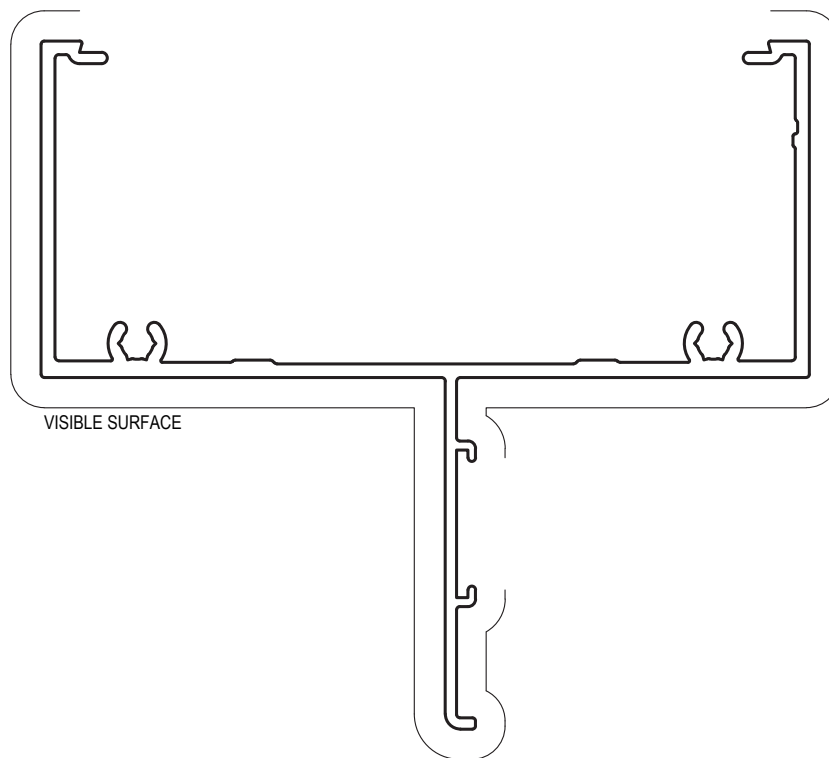
Mass. 1.043 Kg/m
Anod. Per. 395
NO VISIBLE SURFACE



ECO218
EZI REVEAL ADAPTOR

Mass. 0.806 Kg/m
Anod. Per. 377
NO VISIBLE SURFACE

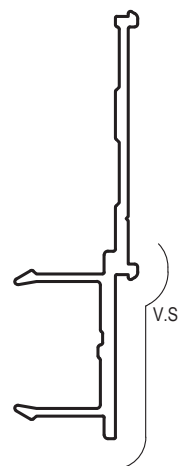




AF55
McARTHUR EVO
LOUVRE HEAD

Mass. 1.369 Kg/m
Anod. Per. 557
Paint Per. 278

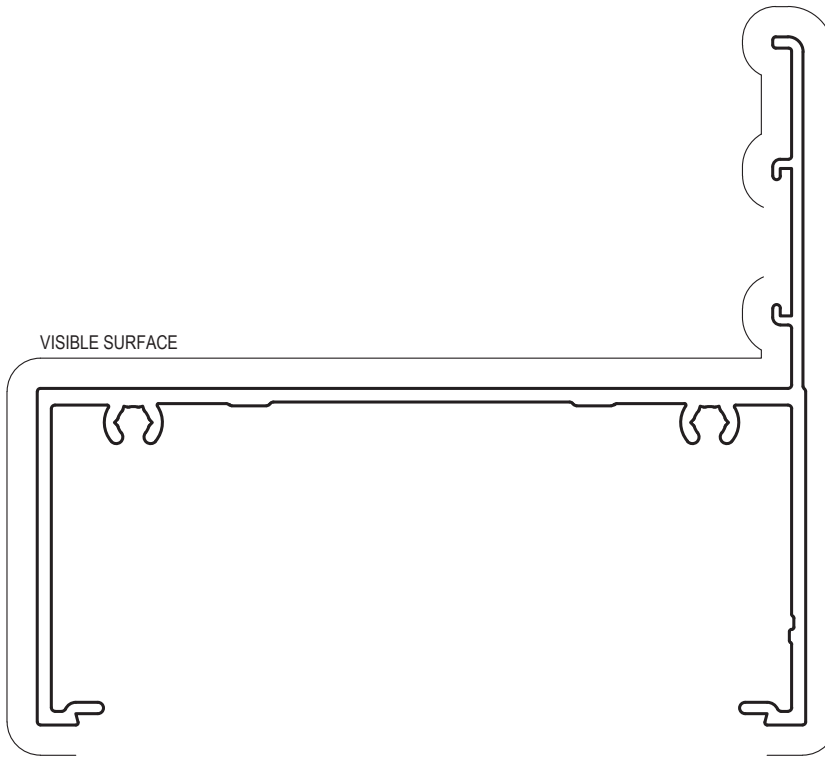
$I_{xx} = 685.60 \times 10^3 \text{ mm}^4$



AF54
McARTHUR EVO SLIM
LOUVRE ADAPTOR

Mass. 0.337 Kg/m
Anod. Per. 171
Paint Per. 100

NOTE:
AF53, AF54, AF55 AND AF56 ARE ONLY TO BE USED TOGETHER.

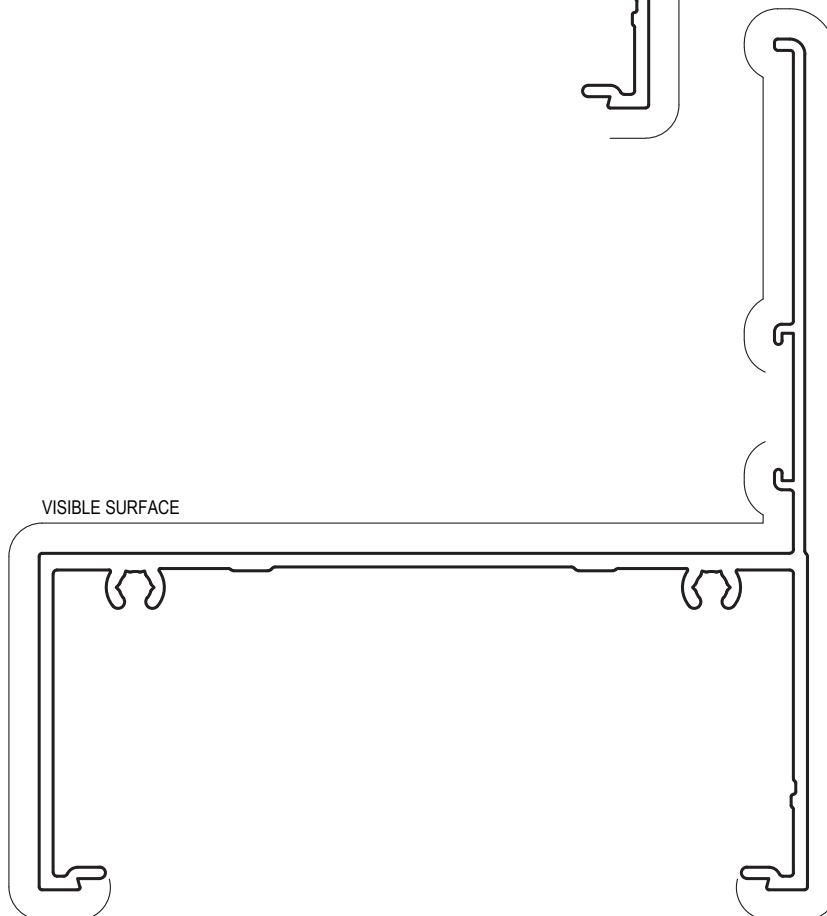


AF53

**McARTHUR EVO
LOUVRE SILL**

Mass. 1.369 Kg/m
Anod. Per. 557
Paint Per. 281

$I_{xx} = 850.69 \times 10^3 \text{ mm}^4$



AF56

**McARTHUR EVO
LOUVRE HIGH SILL**

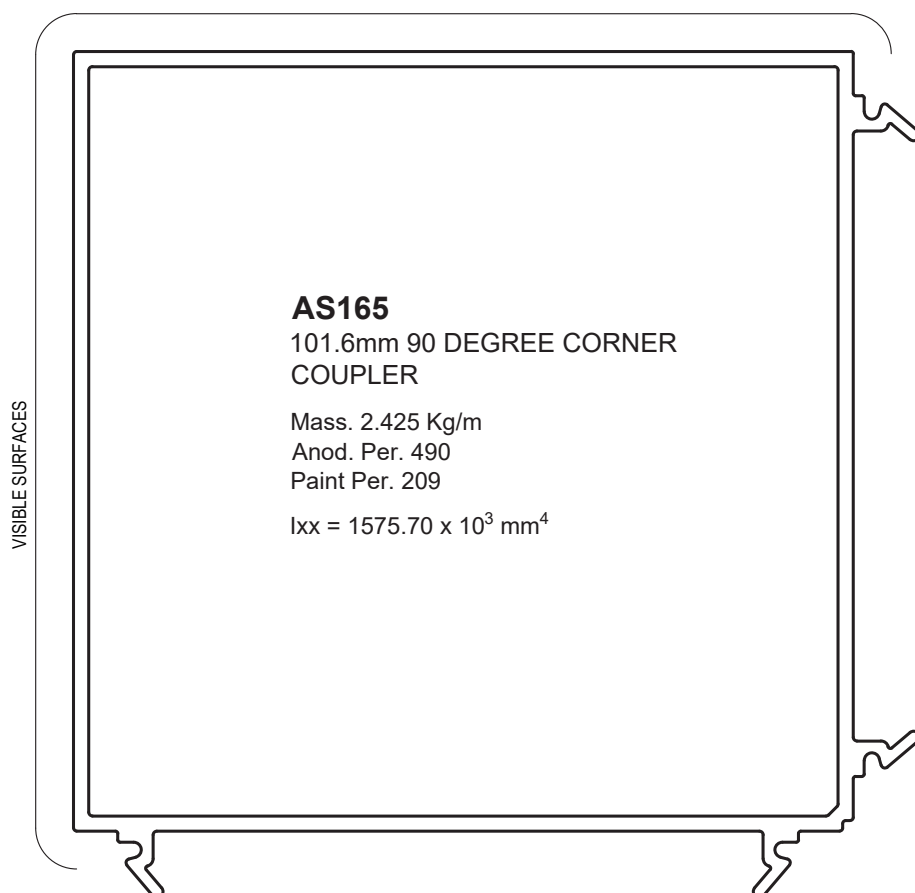
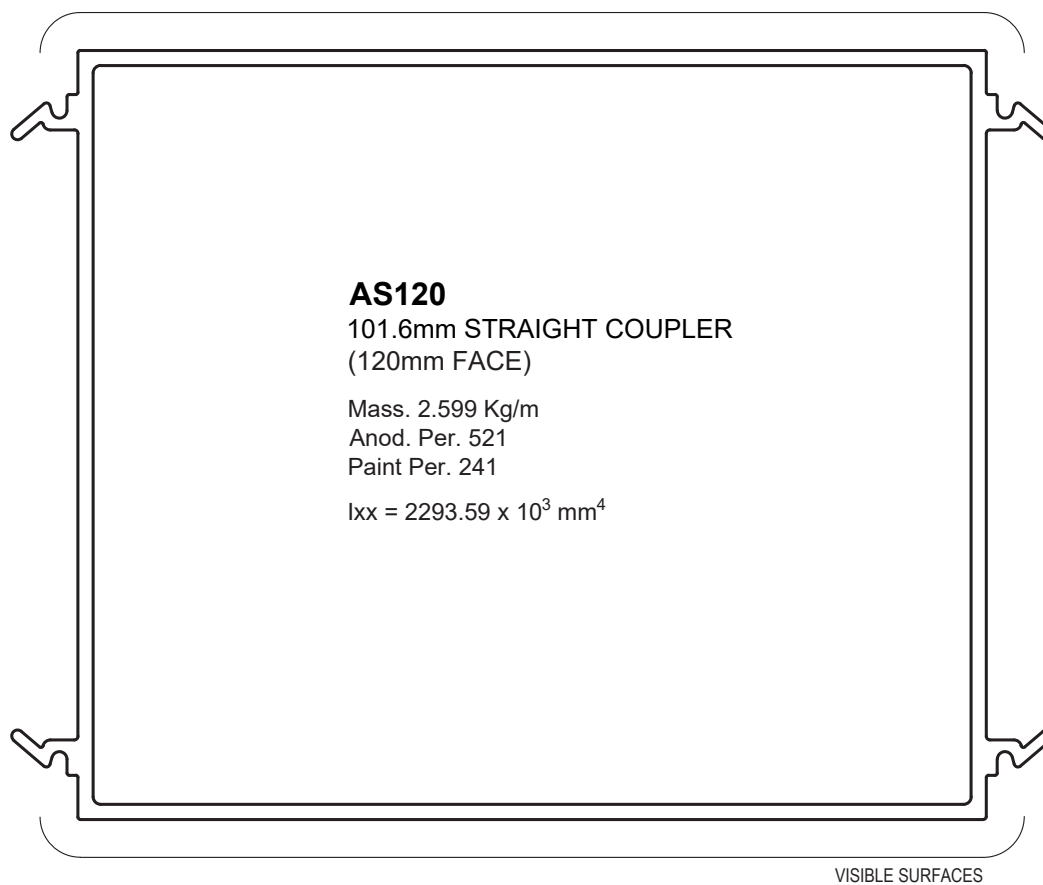
Mass. 1.457 Kg/m
Anod. Per. 600
Paint Per. 335

$I_{xx} = 903.56 \times 10^3 \text{ mm}^4$

NOTE:
AF53, AF54, AF55 AND AF56 ARE ONLY TO BE USED TOGETHER.



5. Extrusions





6. Hardware & Components

Glazing Wedges

IMAGE	TO SUIT GAP	MATERIAL	PART #	DESCRIPTION
	2mm	PVC	1376132	GR32 GLAZING WEDGE (2mm GAP) x 200m ROLL
	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

Backing Gaskets

IMAGE	TO SUIT GAP	MATERIAL	PART #	DESCRIPTION
	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	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	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

6. Hardware & Components

Seals

IMAGE	PART #	FINISH	DESCRIPTION
	1376079	BLACK (034)	CE308 CO-EXT DOOR BUFFER S/PRENE x 200m ROLL
	1376328	BLACK (034)	CE8 CO-EXT DOOR BUFFER x 100m ROLL
	1376345	BLACK (034)	CE5.5 CO-EXT BULB SEAL (5.5mm DIAMETER) x 250m ROLL
	1376413	BLACK (034)	LIP SEAL 4.8mm x 200m
	1377408	BLACK (034)	PS11 11mm FRINGE PILE x 100m

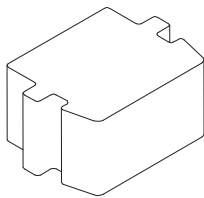
Fasteners

SCREWS			
PART #	HEAD	DESCRIPTION	LOCATION
1382644	SQUARE #2	10g x 1 (25mm) 304SS SQ #2 PAN S/TAP SCREW x 1000	MAIN FRAME
1382054	PHILLIPS #2	10g x 1 (25mm) SS PHIL PAN S/TAP SCREW x 500	MAIN FRAME

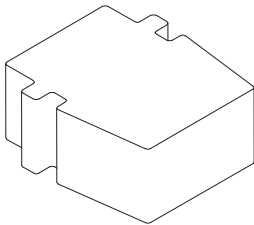
Frame Joint Gaskets

PART #	DESCRIPTION	FINISH
1385512	FJG45 FRAME JOINT GASKET PVC FOAM TAPE 45 x 1.6mm 45.7m	BLACK (034)
		GREY (036)
1385551	FJG001 45mm x 102mm 1010 PER ROLL	BLACK (034)
		GREY (036)
1376449	MS6 MULLION SEAL PVC x 200m	BLACK (034)

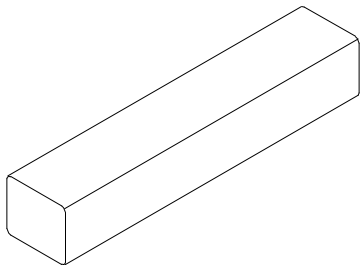
Accessories



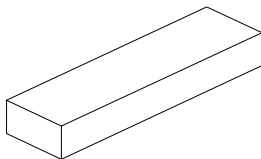
MEA001 SHALLOW POCKET DRAIN BLOCK PAD OF 20	
PART	1385588
FINISH	GREY (036)
QTY	SET



MEA002 DEEP POCKET DRAIN BLOCK PAD OF 20	
PART	1385587
FINISH	GREY (036)
QTY	SET



SETTING BLOCK 13 x 15 x 75mm x BAG OF 50	
PART	1376730
FINISH	GREY (036)
QTY	BAG



SETTING BLOCK 8 x 10 x 50mm	
PART	1376768
FINISH	BLACK (034)
QTY	EACH



6. Hardware & Components

Silicone



100% NEUTRAL CURE SILICONE

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



100% MATTE NEUTRAL CURE SILICONE

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



41 CLADDING SILICONE

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



WET AREA SILICONE

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



HYBRID PU ADHESIVE SEALANT

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



20 ACETIC CURE SILICONE

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



D60 SILICONE

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

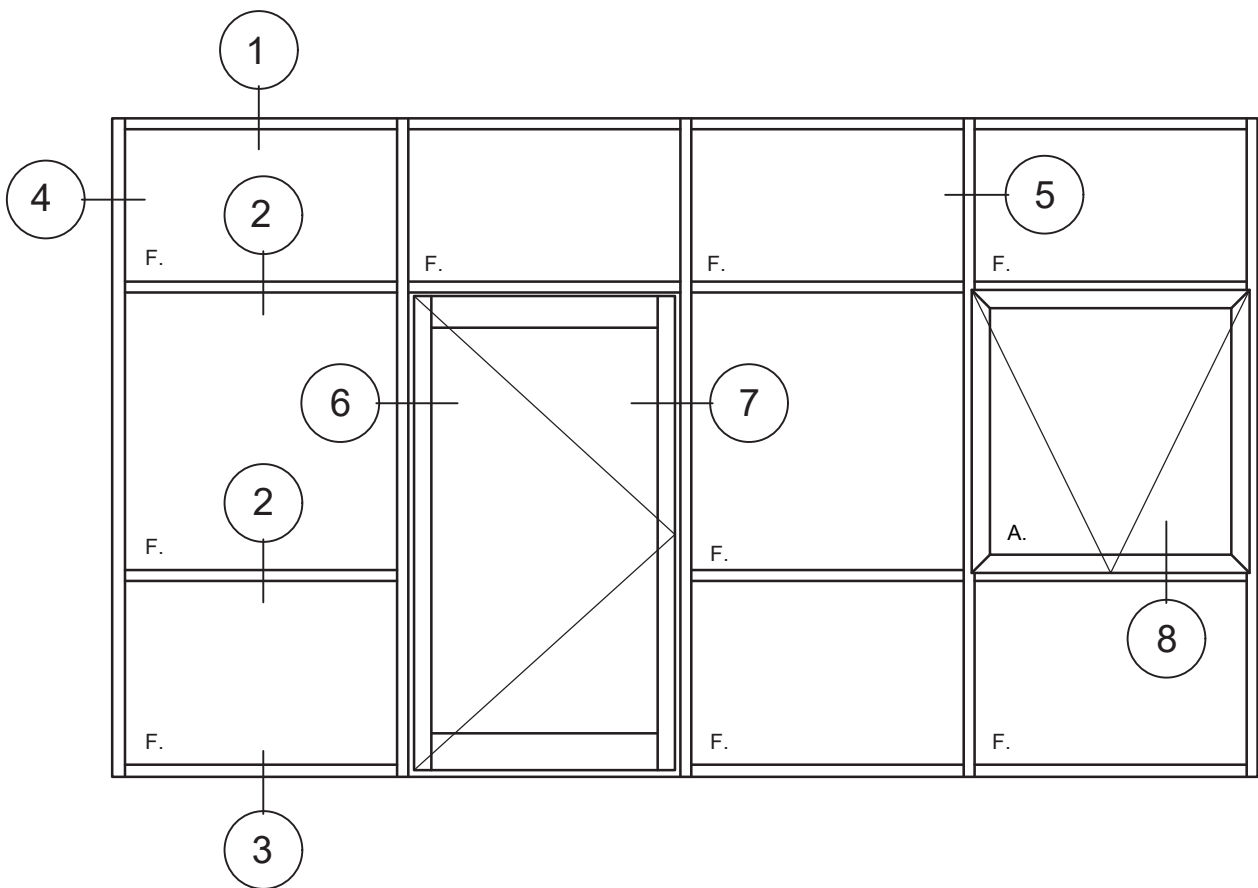
***FOR MORE INFORMATION ON SILICONES,
PLEASE REFER TO ALSPEC SILICONE BROCHURE.**



6. Hardware & Components

Silicone Product Codes

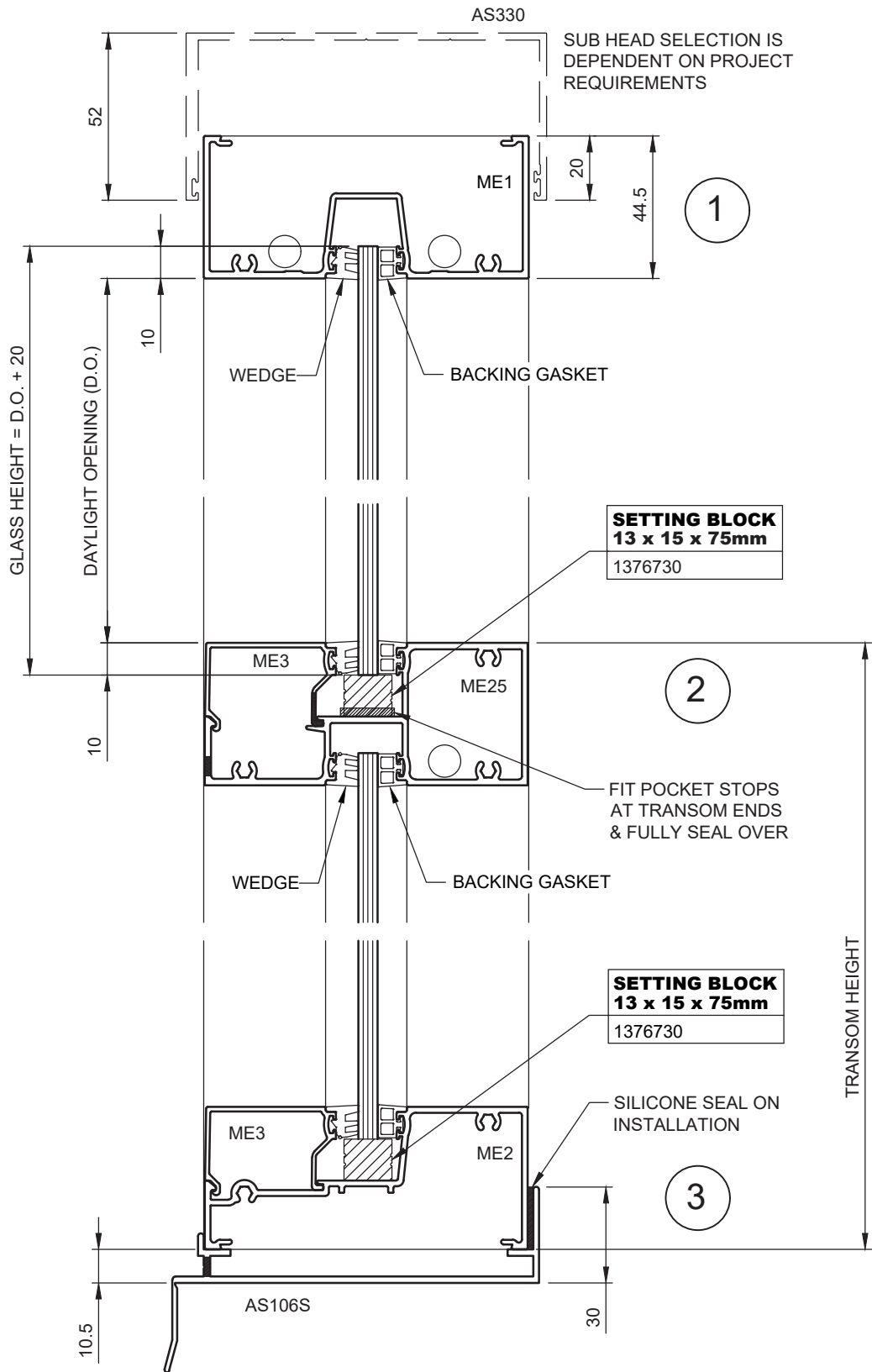
Product Category	Item No.	Alspec Part No.	Description	Finish	Pack
ALSPEC 100%	1	1386113	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	ALMOND IVORY	CARTRIDGE
	2	1386114	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	ALUMINIUM	CARTRIDGE
	3	1386105	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	BLACK	CARTRIDGE
	4	1386140	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	CAULFIELD GREEN	CARTRIDGE
	5	1386111	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	CLASSIC CREAM	CARTRIDGE
	6	1386108	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	LIGHT GREY	CARTRIDGE
	7	1386138	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	MONUMENT	CARTRIDGE
	8	1386112	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	OFF WHITE	CARTRIDGE
	9	1386141	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	STONE BEIGE	CARTRIDGE
	10	1386101	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	TRANSLUCENT	CARTRIDGE
	11	1386106	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	WHITE	CARTRIDGE
	12	1386143	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	WOODLAND GREY	CARTRIDGE
ALSPEC 100% MATT	13	1386103	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	BLACK MATT	CARTRIDGE
	14	1386107	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	LIGHT GREY MATT	CARTRIDGE
	15	1386144	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	WHITE MATT	CARTRIDGE
ALSPEC 20	16	1386115	ALSPEC 20 ACETIC CURE SILICONE x 300ml CAT	TRANSLUCENT	CARTRIDGE
ALSPEC 41 CLADDING	17	1386159	ALSPEC 41 CLADDING SILICONE x 300ml CAT	BLACK MATT	CARTRIDGE
	18	1386117	ALSPEC 41 CLADDING SILICONE x 600ml SAU	BLACK MATT	SAUSAGE
	19	1386158	ALSPEC 41 CLADDING SILICONE x 300ml CAT	LIGHT GREY MATT	CARTRIDGE
	20	1386118	ALSPEC 41 CLADDING SILICONE x 600ml SAU	LIGHT GREY MATT	SAUSAGE
	21	1386157	ALSPEC 41 CLADDING SILICONE x 300ml CAT	WHITE MATT	CARTRIDGE
	22	1386145	ALSPEC 41 CLADDING SILICONE x 600ml SAU	WHITE MATT	SAUSAGE
ALSPEC D60	23	1386121	ALSPEC D60 SILICONE x 300ml CAT	BLACK	CARTRIDGE
	25	1386123	ALSPEC D60 SILICONE x 300ml CAT	GREY	CARTRIDGE
	26	1386120	ALSPEC D60 SILICONE x 300ml CAT	TRANSLUCENT	CARTRIDGE
	27	1386124	ALSPEC D60 SILICONE x 300ml CAT	WHITE	CARTRIDGE
ALSPEC HYBRID PU	28	1386127	ALSPEC HYBRID PU x 300ml CAT	BLACK	CARTRIDGE
	29	1386126	ALSPEC HYBRID PU x 600ml SAU	BLACK	SAUSAGE
	30	1386160	ALSPEC HYBRID PU x 300ml CAT	GREY	CARTRIDGE
	31	1386128	ALSPEC HYBRID PU x 600ml SAU	GREY	SAUSAGE
	32	1386130	ALSPEC HYBRID PU x 300ml CAT	WHITE	CARTRIDGE
	33	1386129	ALSPEC HYBRID PU x 600ml SAU	WHITE	SAUSAGE
ALSPEC WET AREA	34	1386137	ALSPEC WET AREA SILICONE x 300ml CAT	ALMOND IVORY	CARTRIDGE
	35	1386139	ALSPEC WET AREA SILICONE x 300ml CAT	BLACK	CARTRIDGE
	36	1386146	ALSPEC WET AREA SILICONE x 300ml CAT	BLUESTONE	CARTRIDGE
	37	1386147	ALSPEC WET AREA SILICONE x 300ml CAT	CHARCOAL	CARTRIDGE
	38	1386136	ALSPEC WET AREA SILICONE x 300ml CAT	LIGHT GREY	CARTRIDGE
	39	1386148	ALSPEC WET AREA SILICONE x 300ml CAT	MID GREY	CARTRIDGE
	40	1386149	ALSPEC WET AREA SILICONE x 300ml CAT	OFF WHITE	CARTRIDGE
	41	1386150	ALSPEC WET AREA SILICONE x 300ml CAT	PEWTER	CARTRIDGE
	42	1386151	ALSPEC WET AREA SILICONE x 300ml CAT	STONE BEIGE	CARTRIDGE
	43	1386154	ALSPEC WET AREA SILICONE x 300ml CAT	TAUPE	CARTRIDGE
	44	1386152	ALSPEC WET AREA SILICONE x 300ml CAT	TILE GREY	CARTRIDGE
	45	1386133	ALSPEC WET AREA SILICONE x 300ml CAT	TRANSLUCENT	CARTRIDGE
	46	1386153	ALSPEC WET AREA SILICONE x 300ml CAT	TRAVERTINE	CARTRIDGE
	47	1386134	ALSPEC WET AREA SILICONE x 300ml CAT	WHITE	CARTRIDGE





8. Typical Details

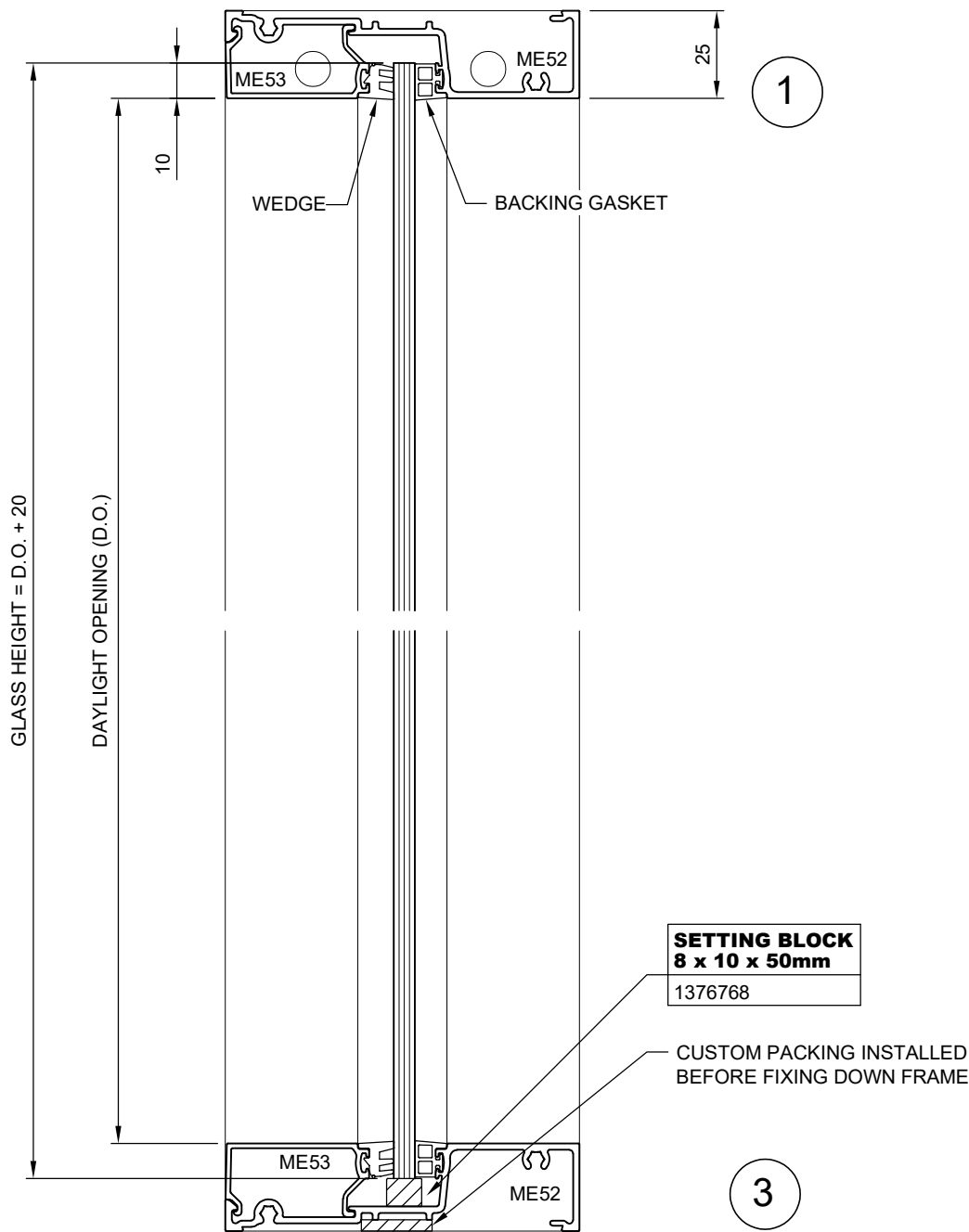
Typical Head, Transom and Sill Details





8. Typical Details

25mm Typical Head and Sill Details

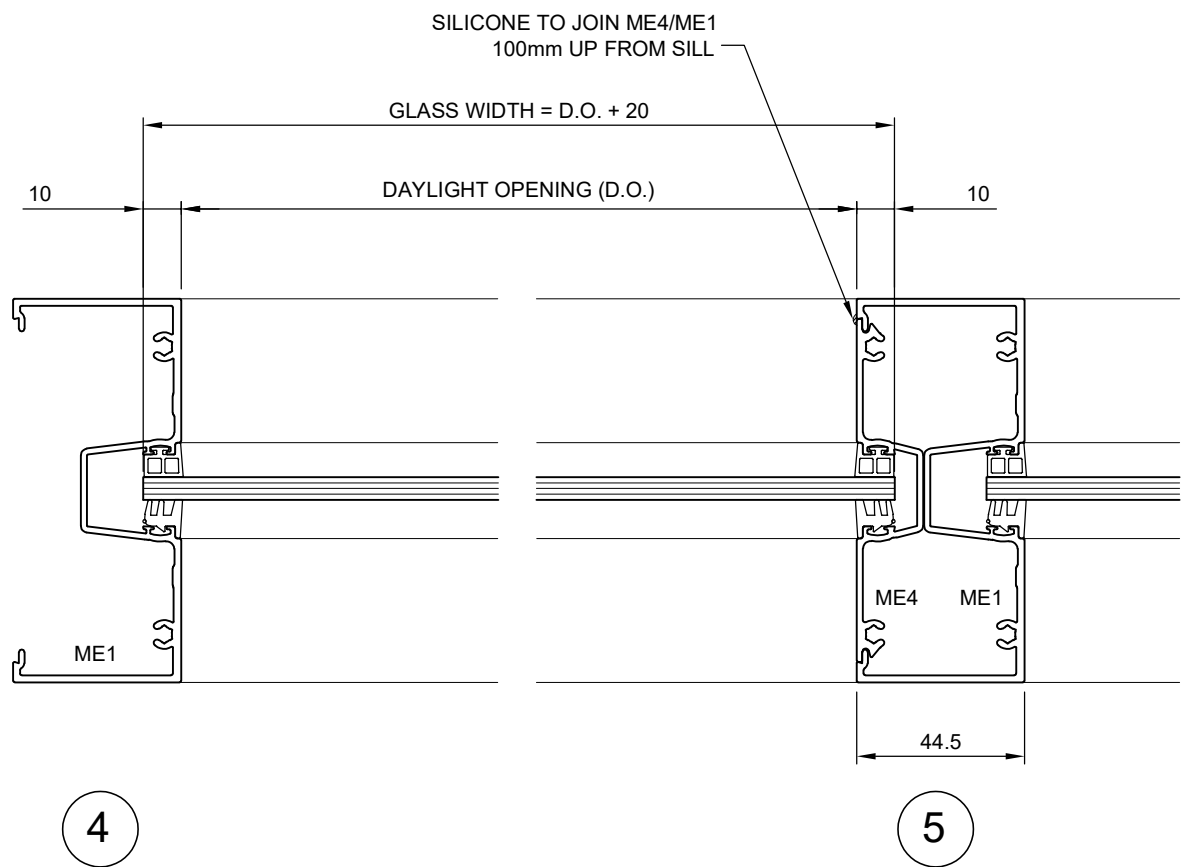


NOTE: HEAD AND SILL ARE INTERNAL USE ONLY

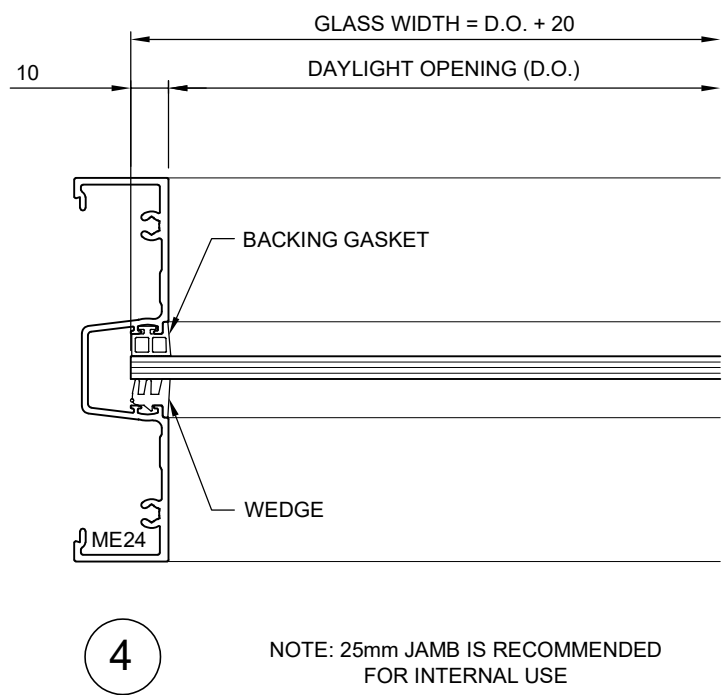


8. Typical Details

Typical Jamb/ Mullion Details



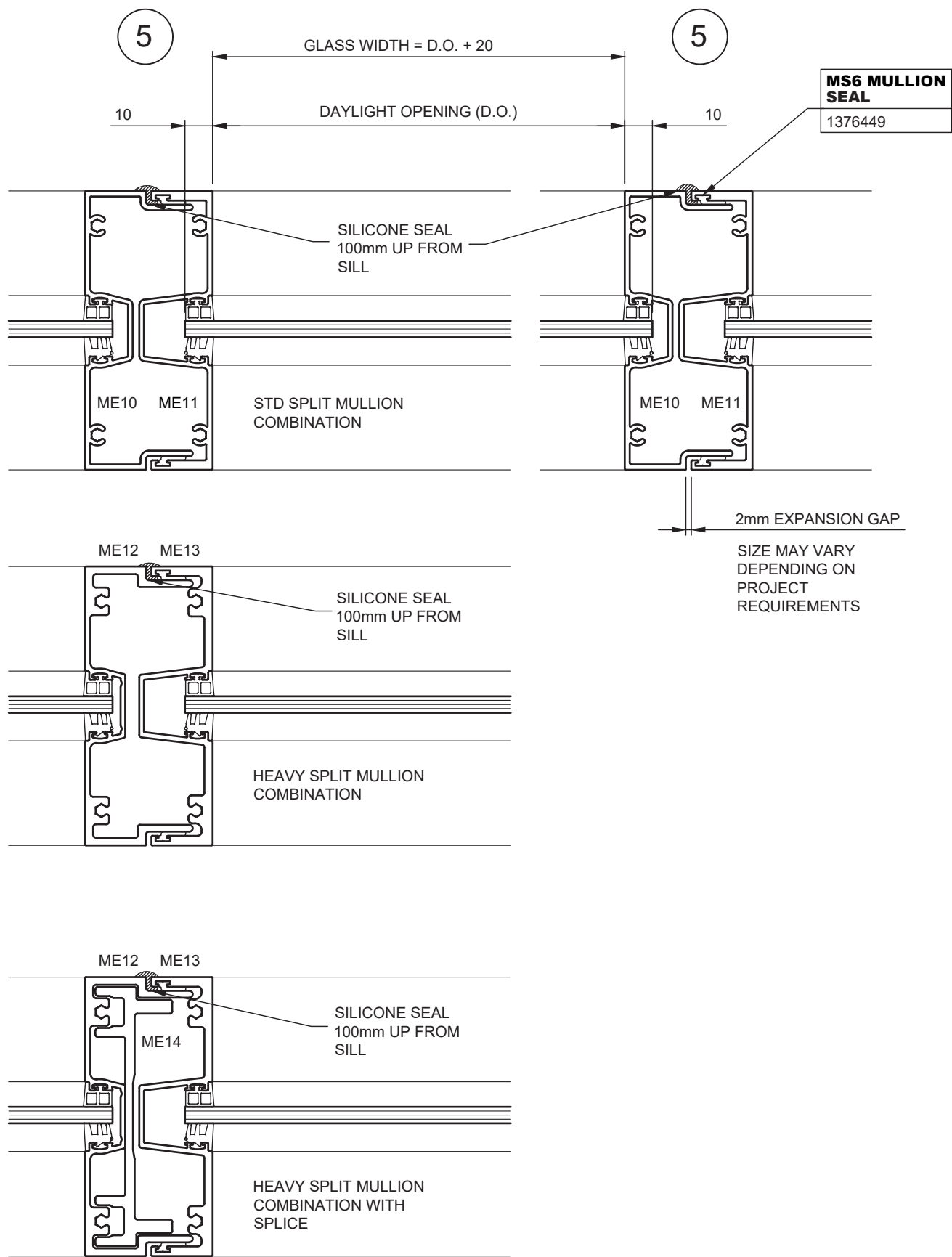
25mm Typical Jamb Details





8. Typical Details

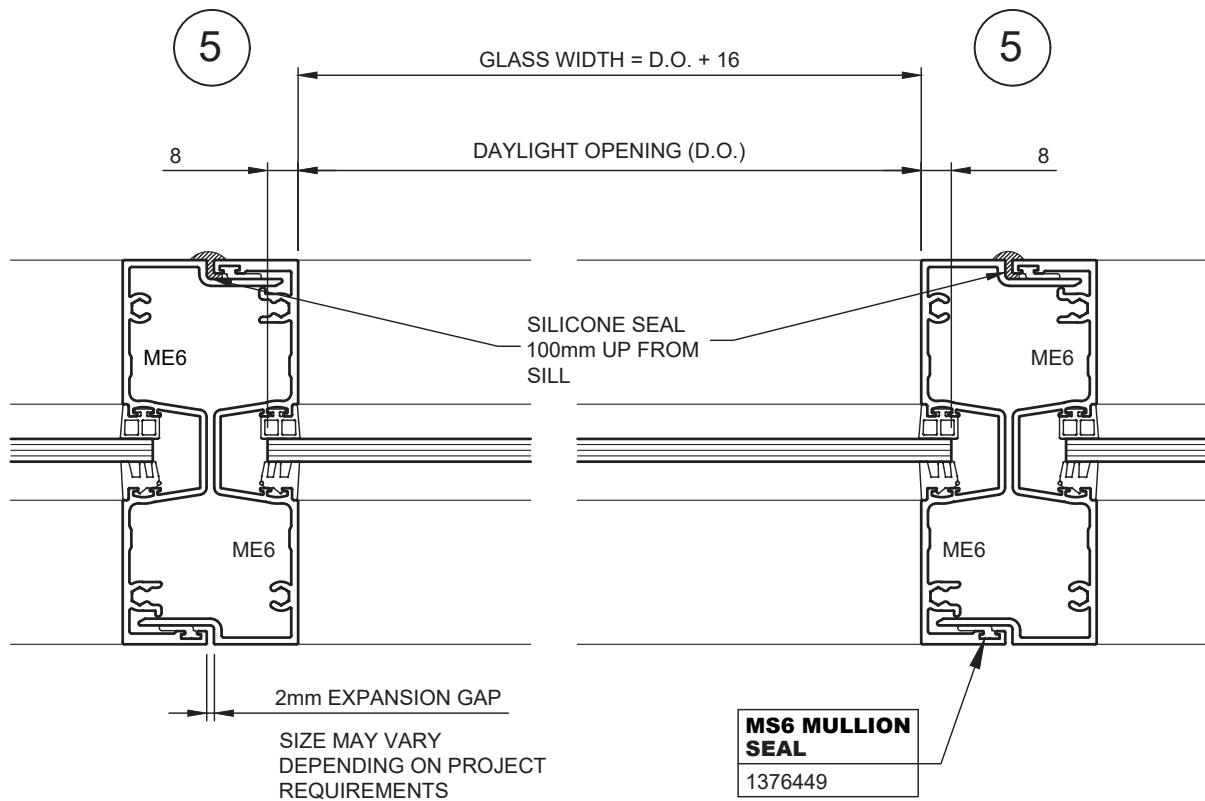
Split Mullion Details - Male/ Female (Max 14mm GLASS)





8. Typical Details

Split Mullion Details - Self Mating (Max 10.5mm GLASS)

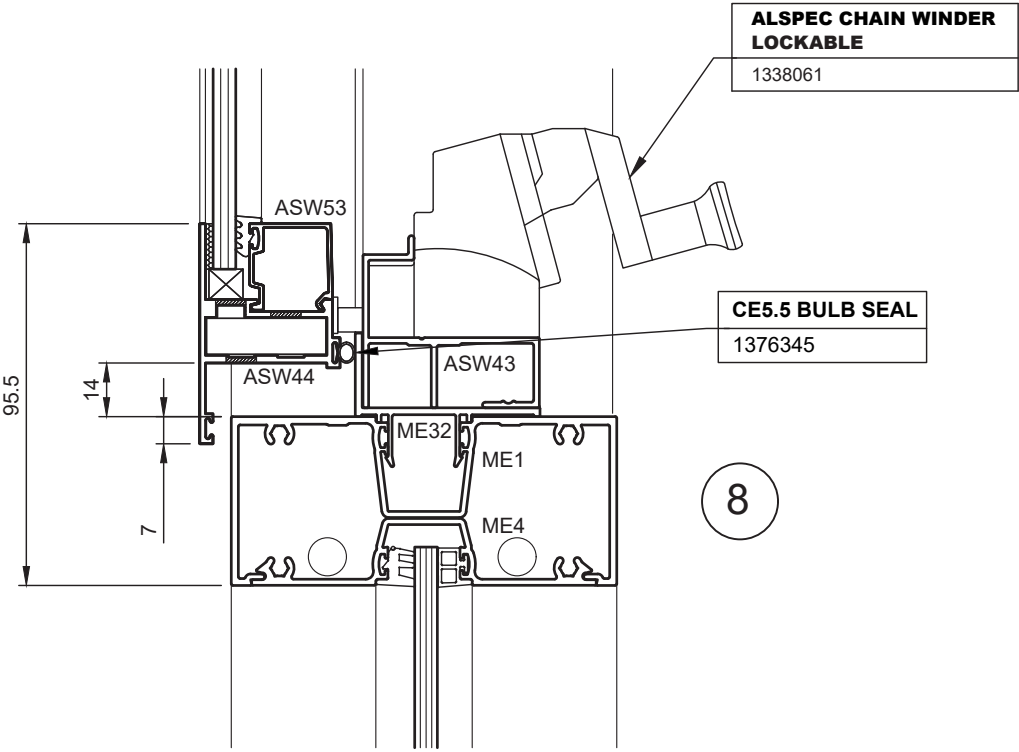
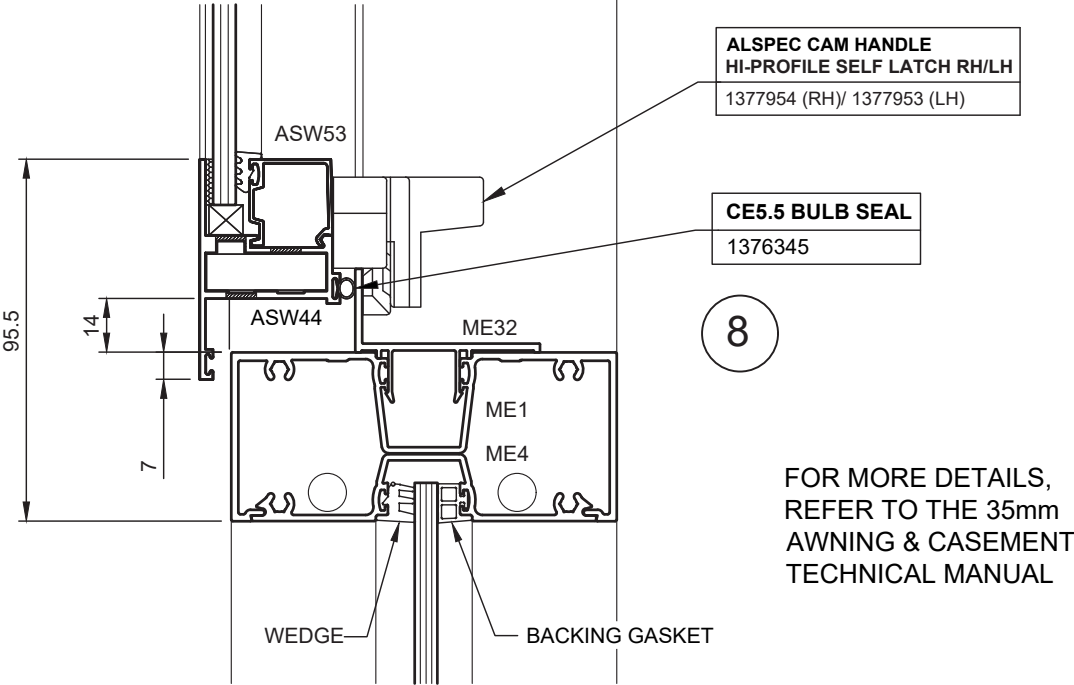


NOTE WHEN USING MULTIPLE SELF MATING MULLIONS:
Glass edge cover in ME6 is limited to 8mm, therefore a max glass
thickness of 10.38mm applies per AS1288



8. Typical Details

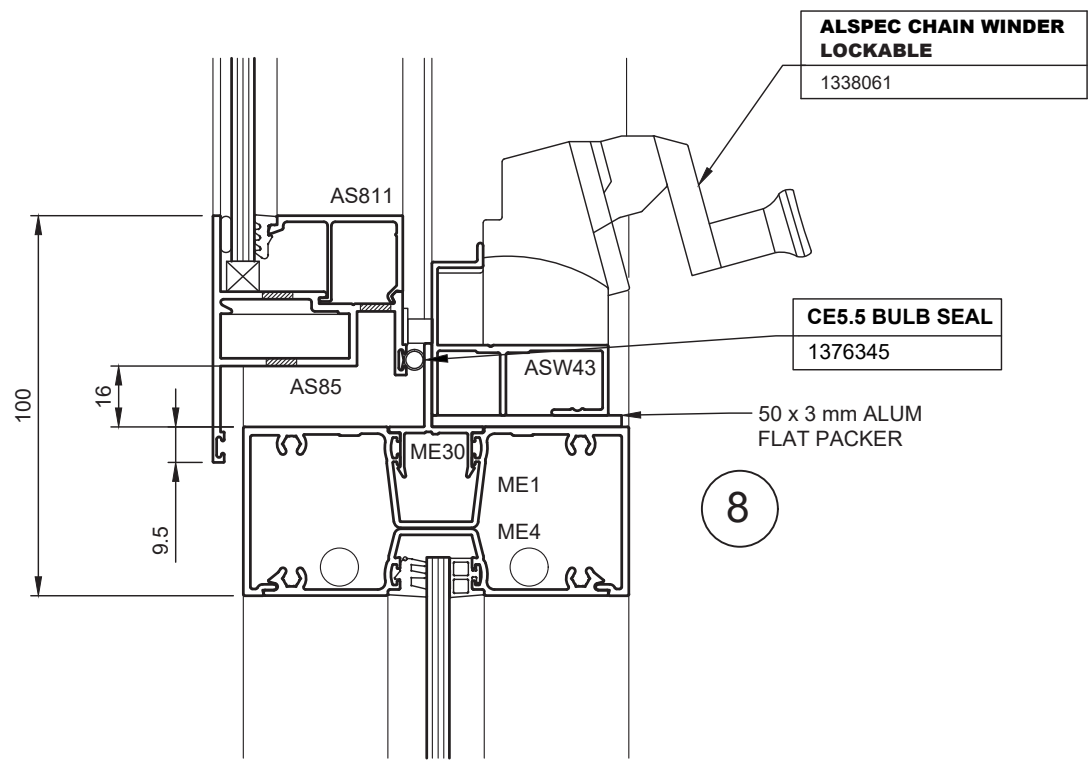
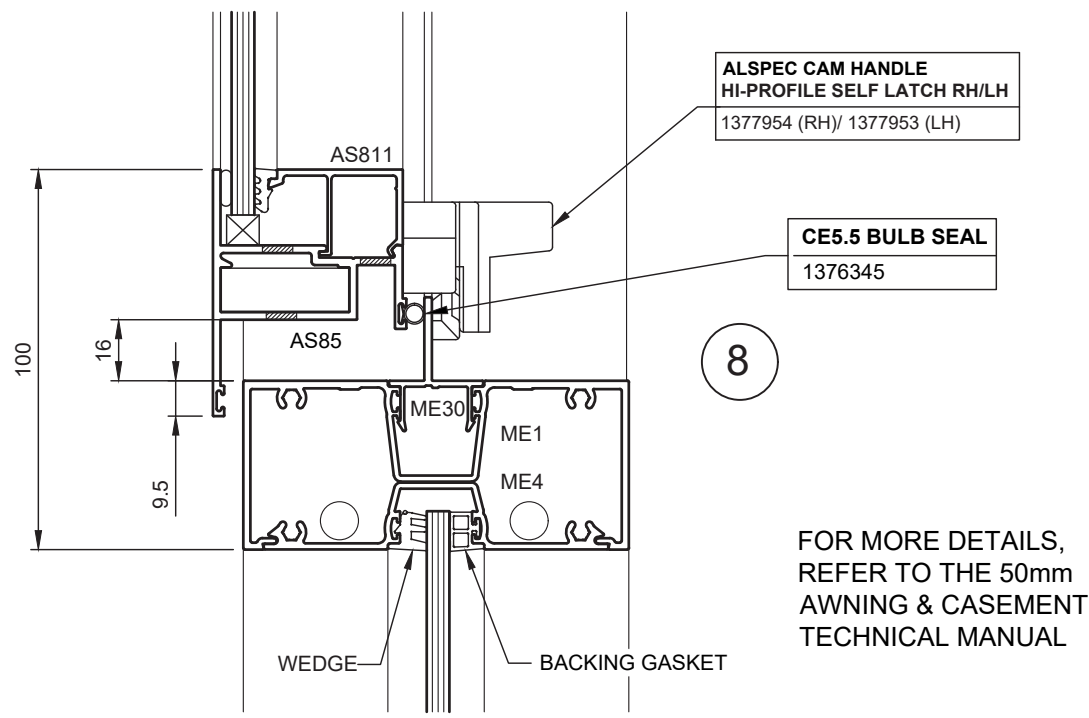
Transom Details - 35mm Awnings/ Fixed





8. Typical Details

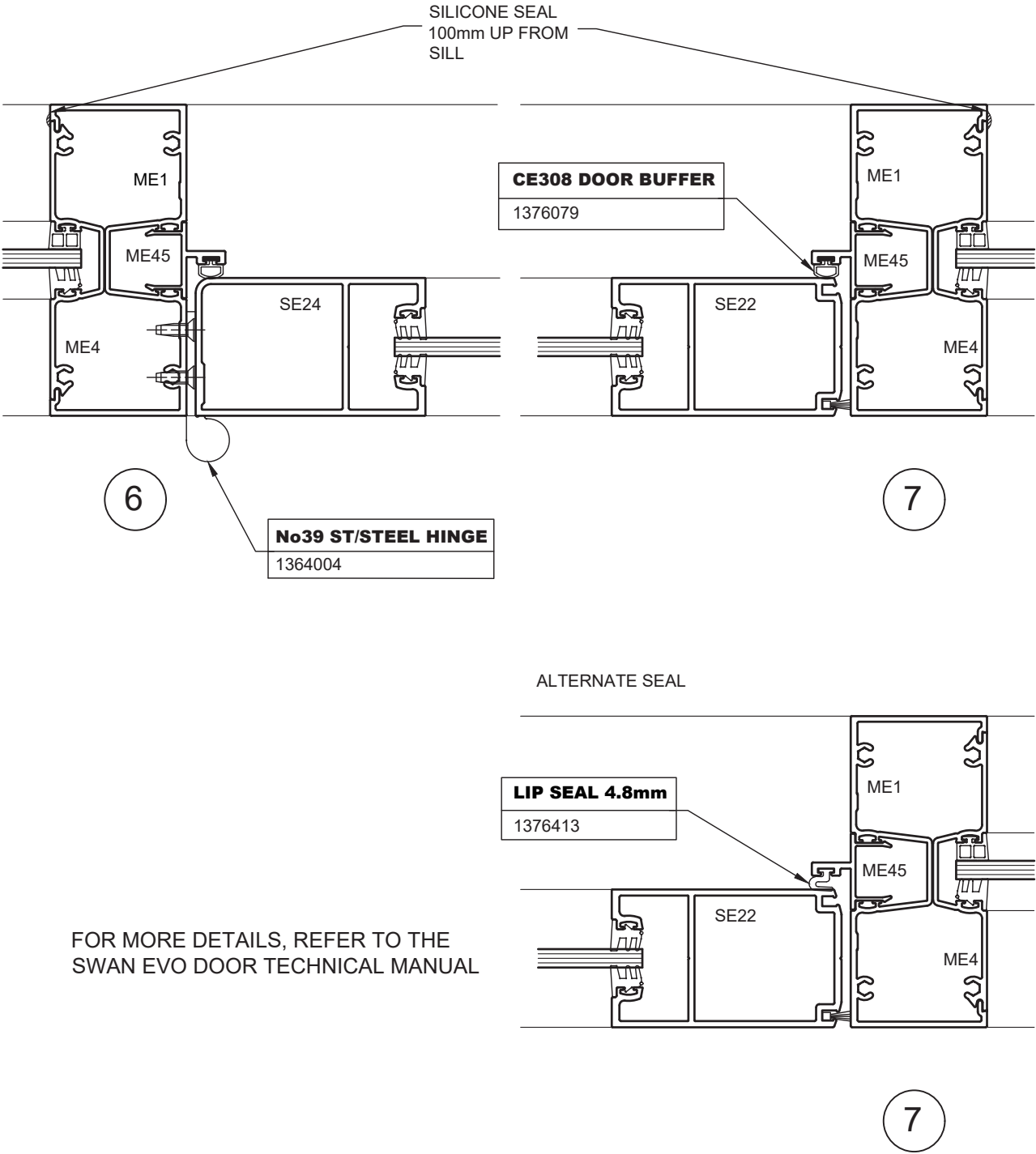
Transom Details - 50mm Awnings/ Fixed





8. Typical Details

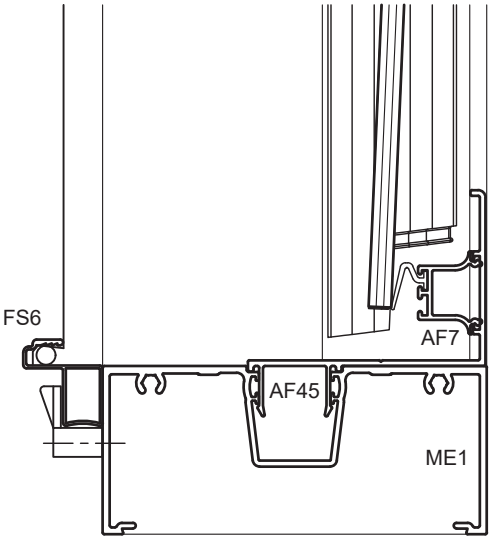
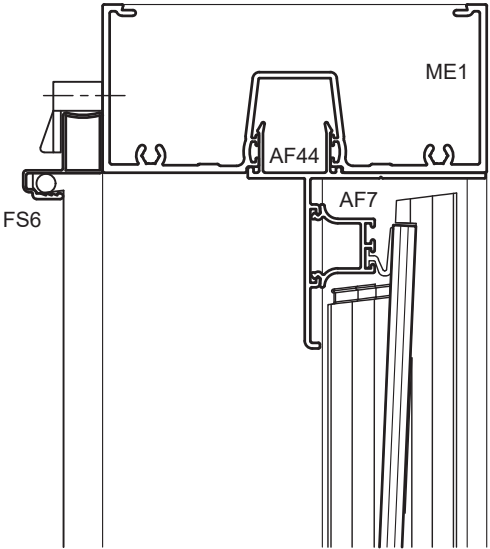
Door Jamb Details



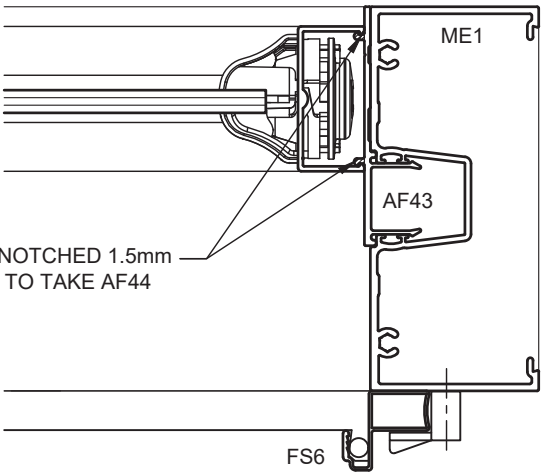
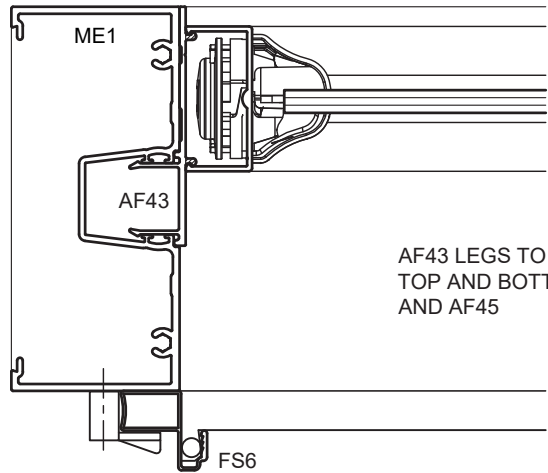


8. Typical Details

Louvre Detail

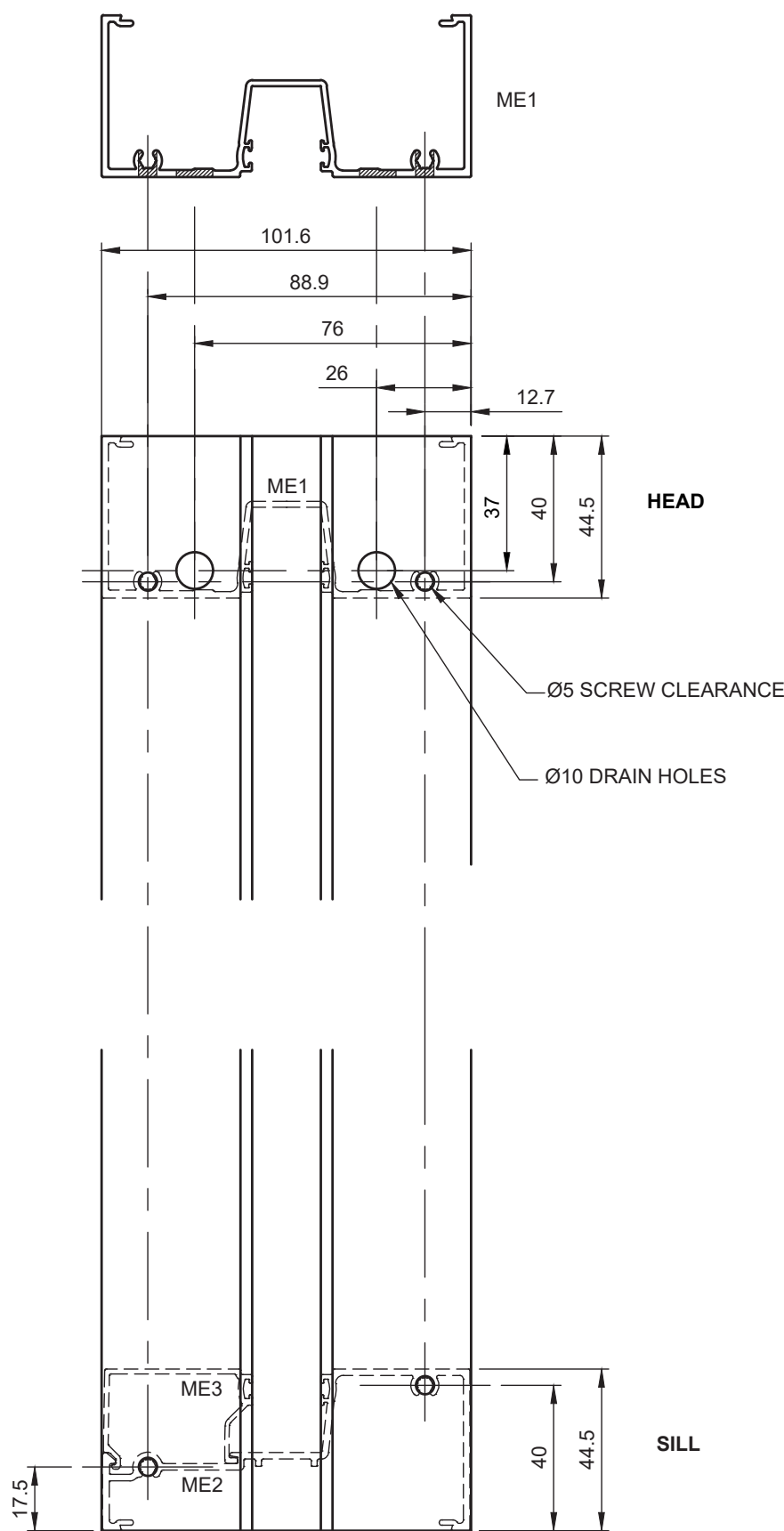


FOR MORE DETAILS, REFER TO THE
AIR-FLO PLUS LOUVRE TECHNICAL
MANUAL

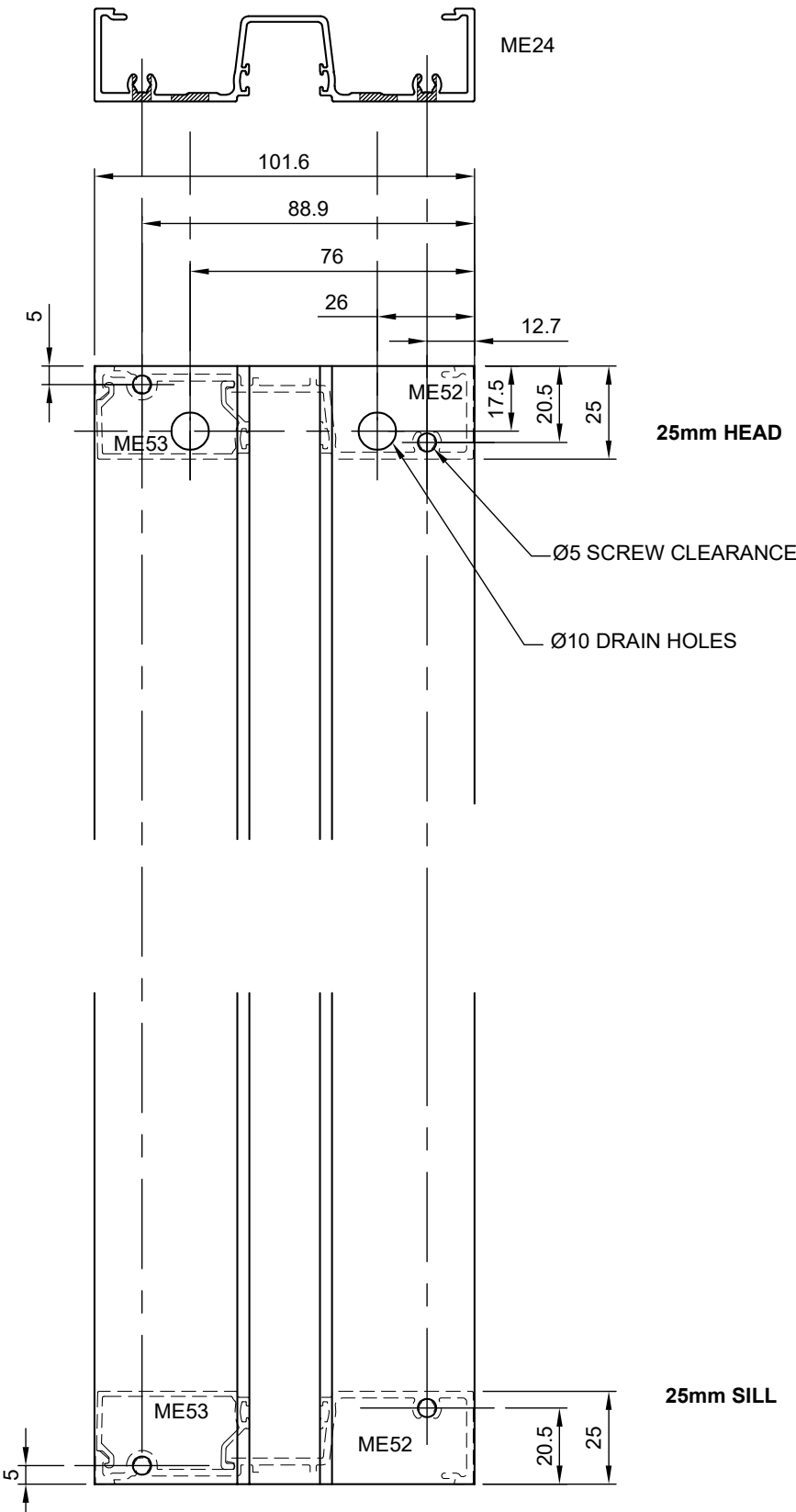


AF43 LEGS TO BE NOTCHED 1.5mm
TOP AND BOTTOM TO TAKE AF44
AND AF45

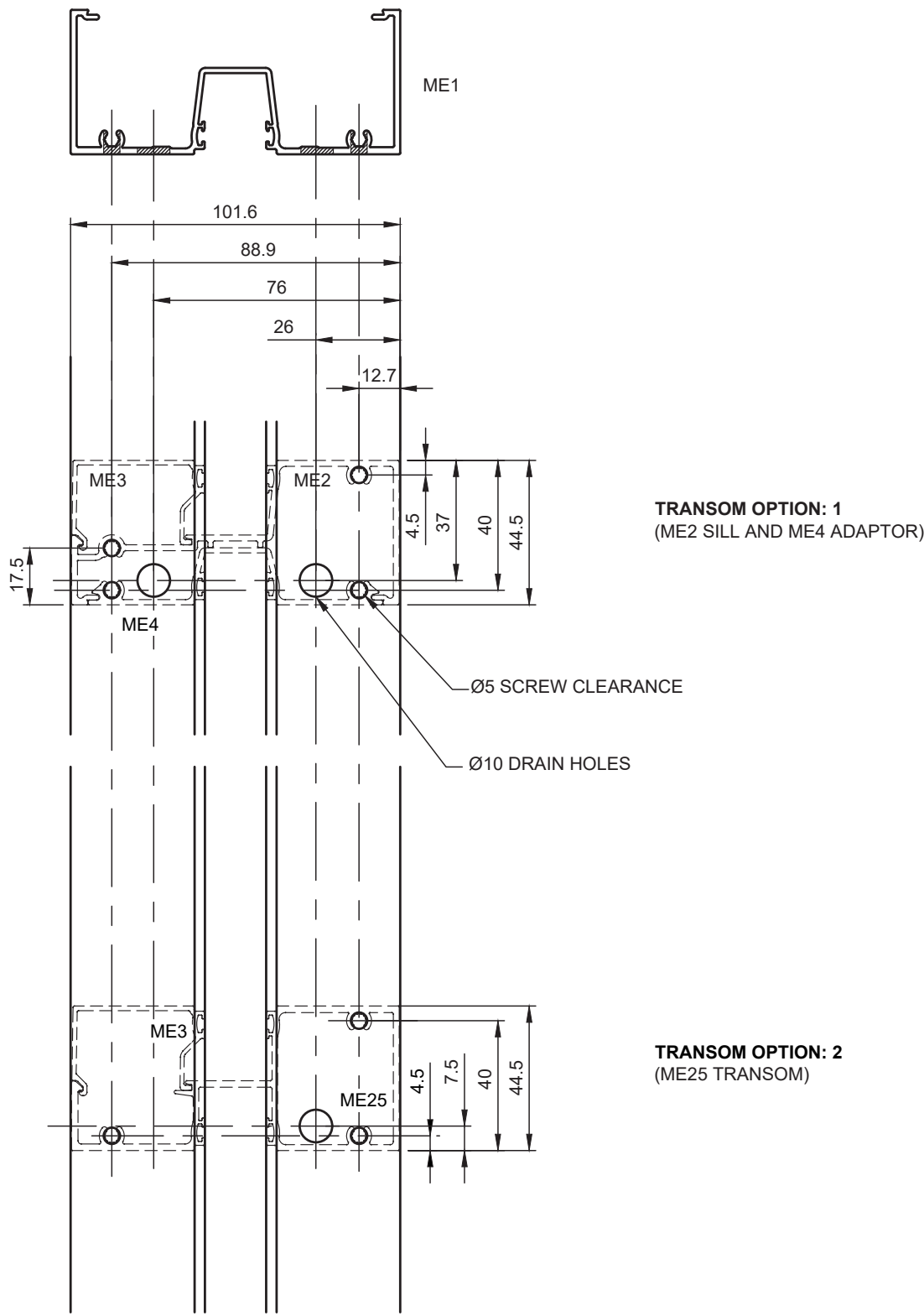
Jamb Preparation - Head/ Sill - External Glaze



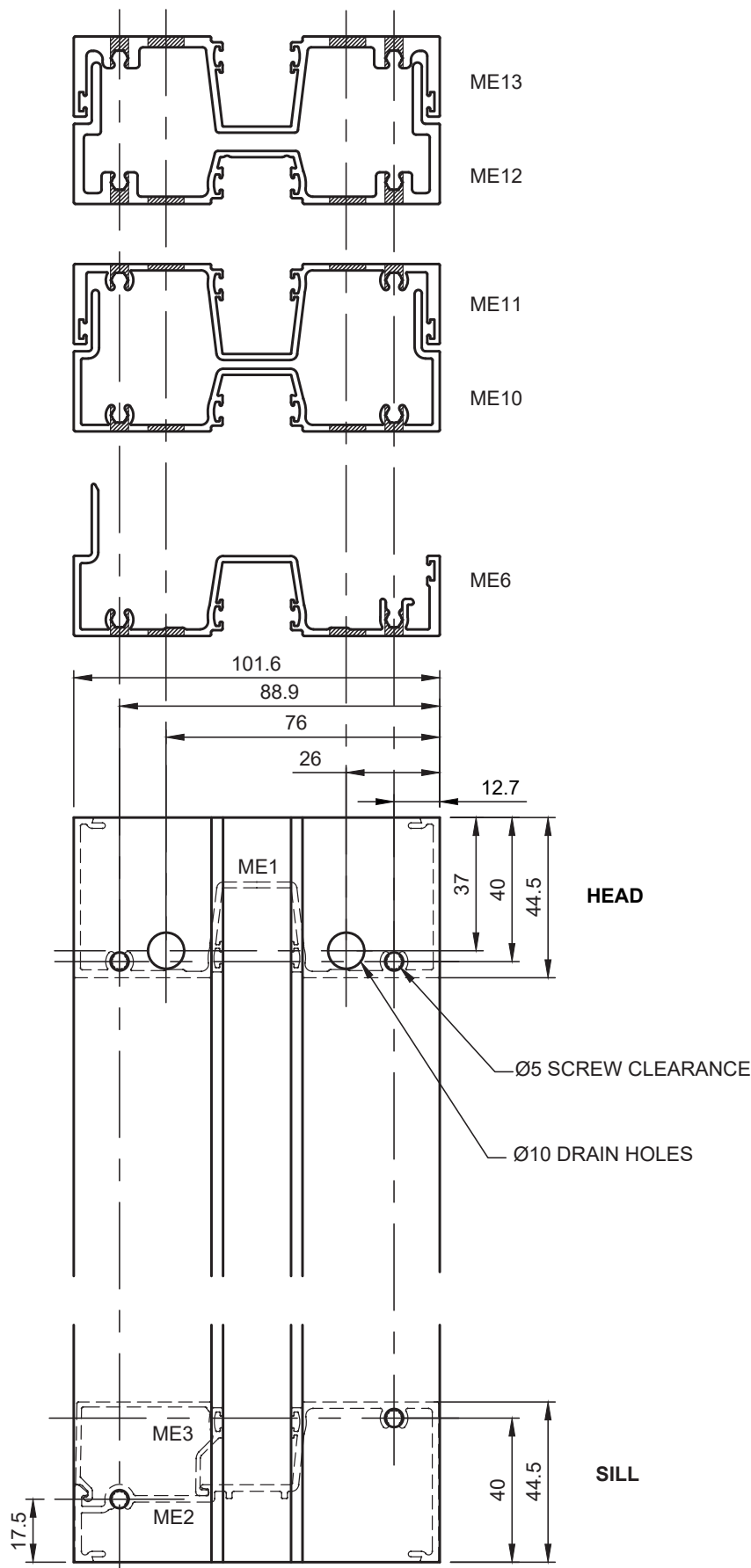
Jamb Preparation - 25mm Head/ Sill - Internal Glaze



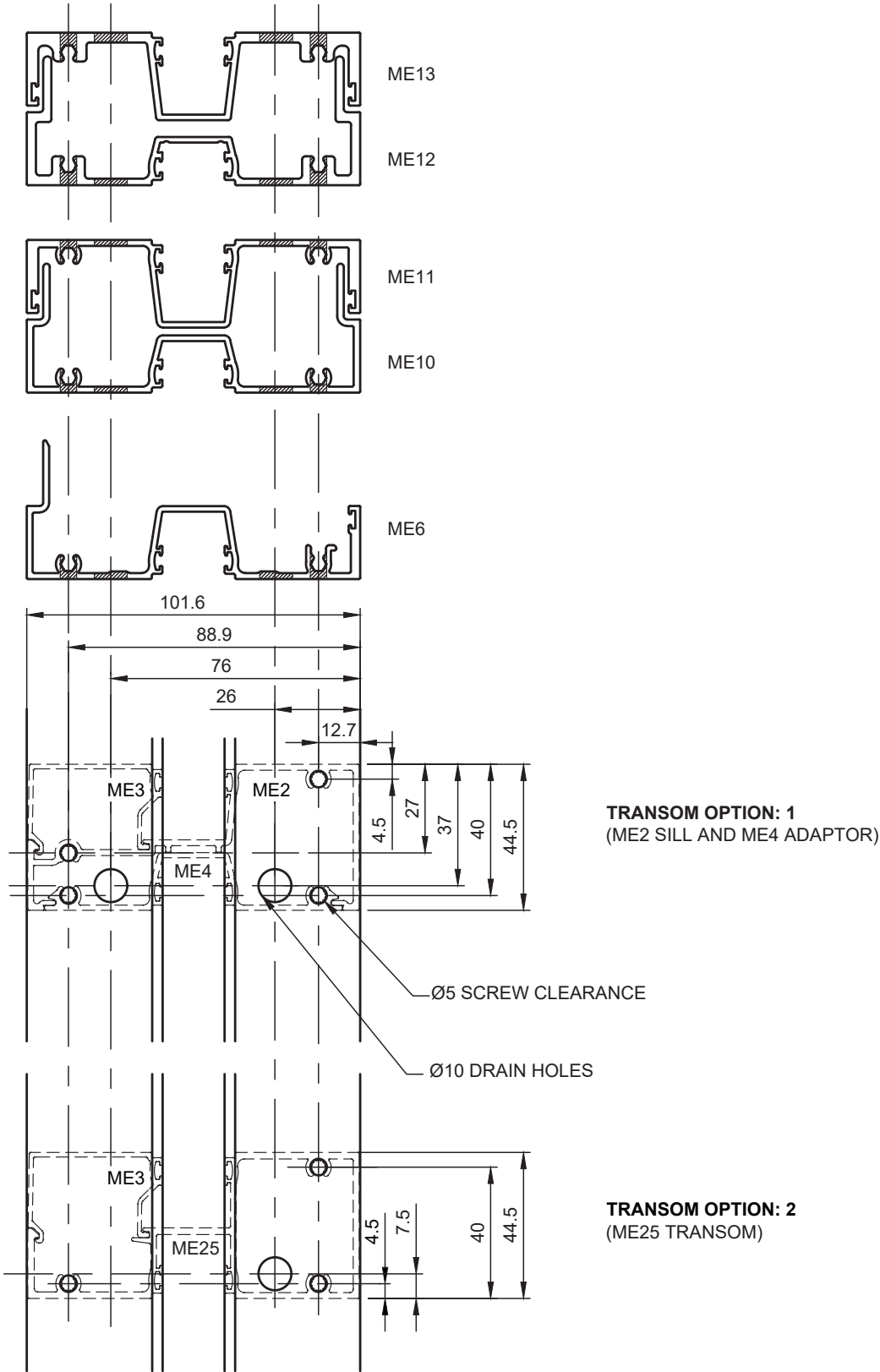
Jamb Preparation - Transom - External Glaze



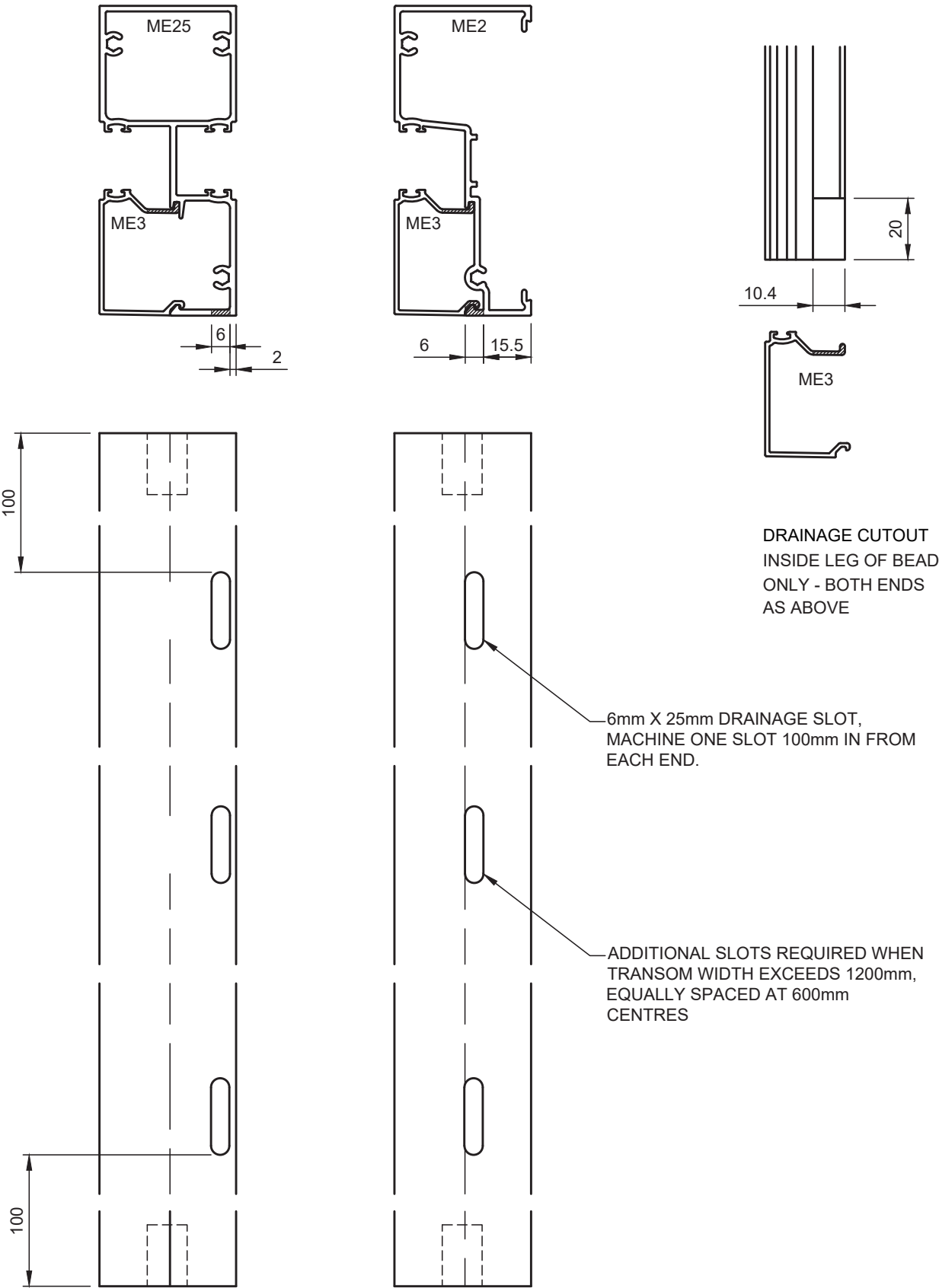
Mullion Preparation - Head / Sill - External Glaze



Mullion Preparation - Transom- External Glaze



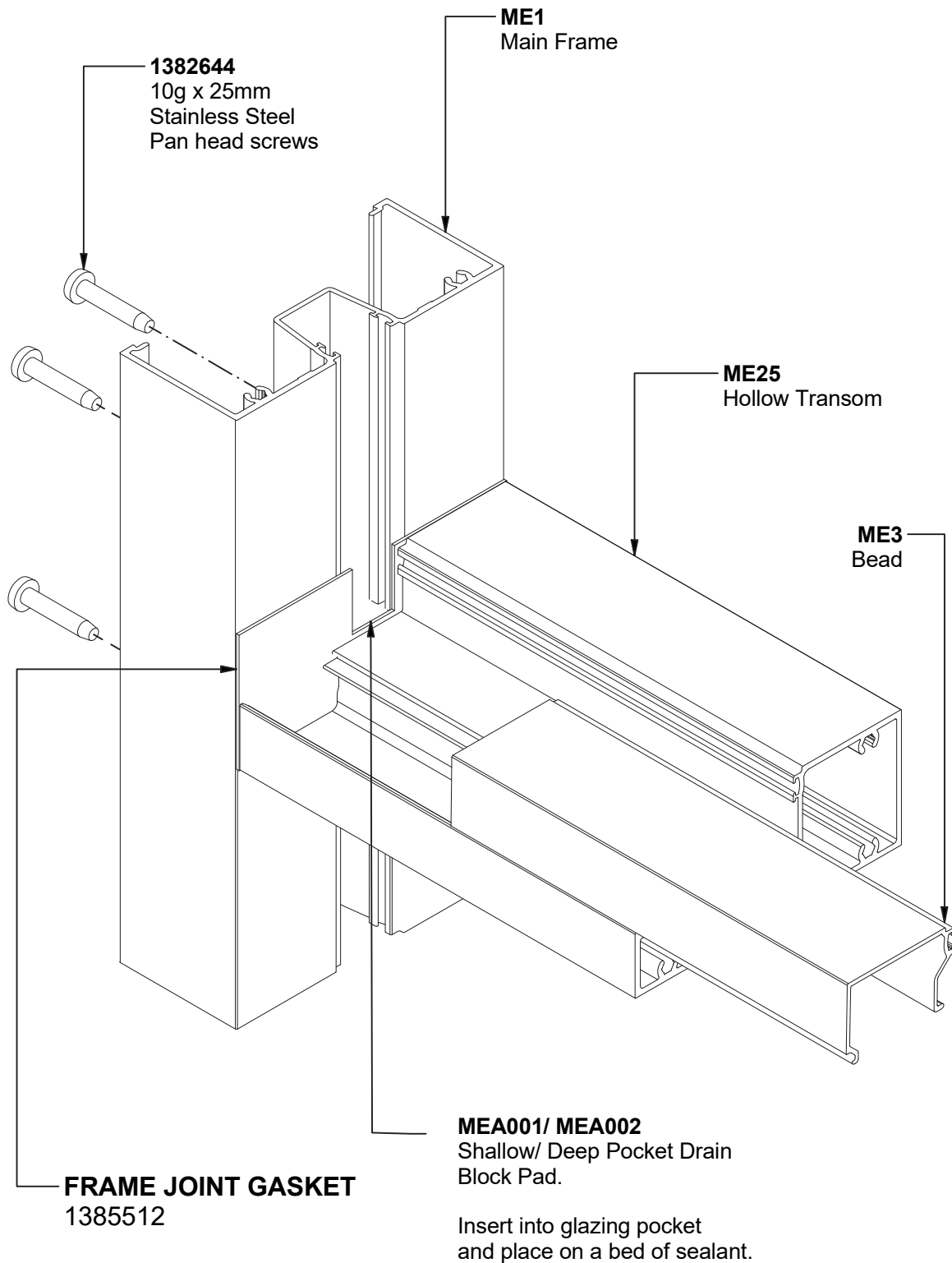
Transom Drainage Preparation - External Glaze



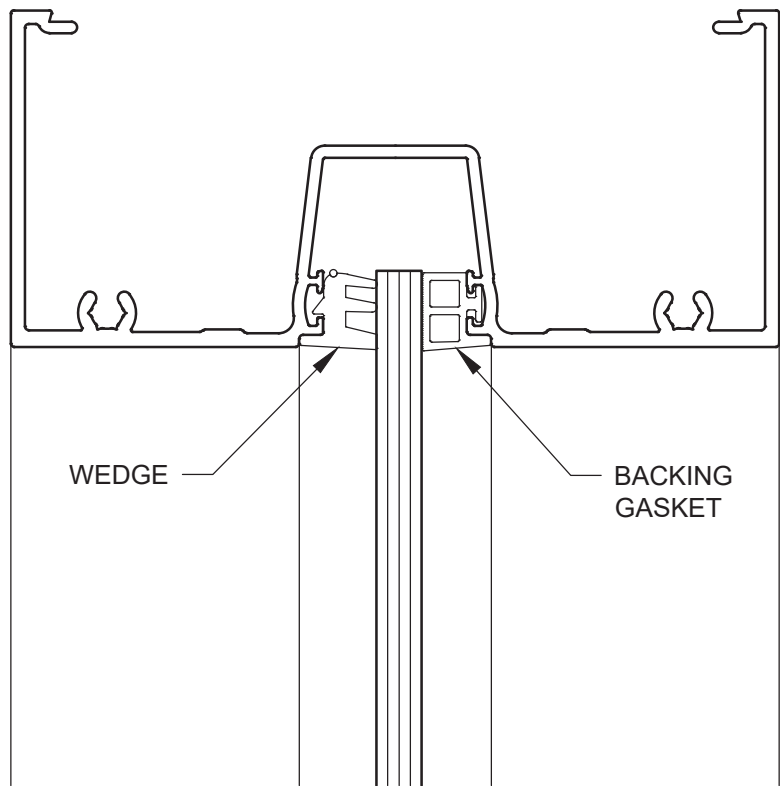


11. Assembly Details

Transom Assembly and Sealing Details



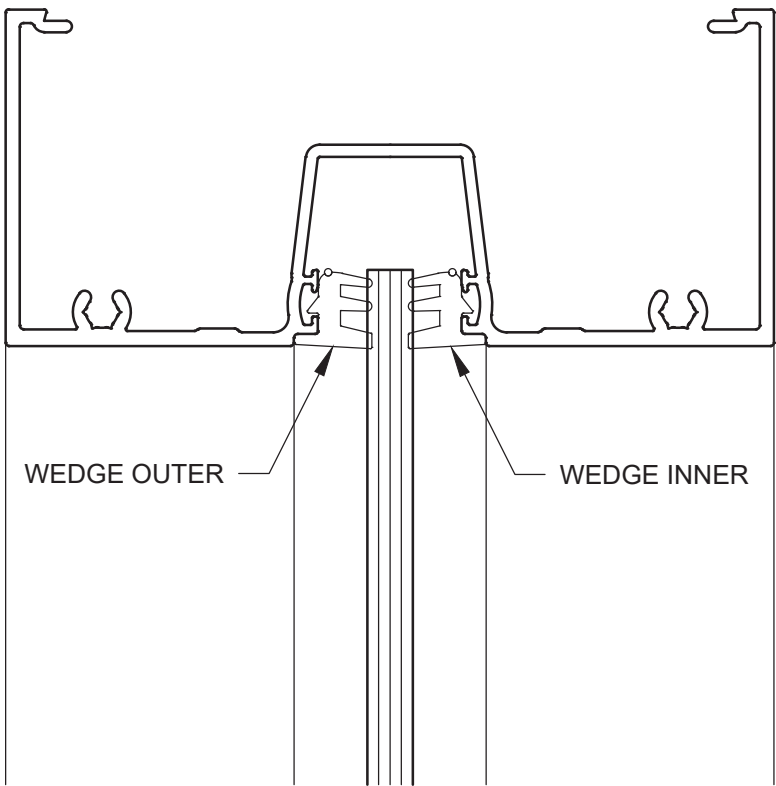
Glazing Details - Captive



	WEDGE		CO-EXTRUDED BACKING GASKET
GLASS THICKNESS	ID COLOUR	REF. (GAP)	REF. (GAP)
6/6.38mm	RED	GR47 (7mm)	CE49 (6mm)
8/8.38mm	BLUE	GR45 (5mm)	CE49 (6mm)
9.5mm	BLUE	GR45 (5mm)	CE37 (4mm)
10/10.38mm	BLUE	GR45 (5mm)	CE37 (4mm)
11.5mm	BLUE	GR45 (5mm)	CE36 (2mm)
12/12.38mm	BLUE	GR45 (5mm)	CE36 (2mm)
13.5mm	BROWN	GR43 (3mm)	CE36 (2mm)
14mm	BROWN	GR43 (3mm)	CE36 (2mm)

REVERSE GLAZING WEDGE COMBINATIONS FOR INTERNAL GLAZING

Glazing Details - Non Captive



	WEDGE INNER		WEDGE OUTER	
GLASS THICKNESS	ID COLOUR	REF. (GAP)	ID COLOUR	REF. (GAP)
6/6.38mm	RED	GR47 (7mm)	YELLOW	GR46 (6mm)
8/8.38mm	BLUE	GR45 (5mm)	YELLOW	GR46 (6mm)
9.5mm	BLUE	GR45 (5mm)	WHITE	GR44 (4mm)
10/10.38mm	BLUE	GR45 (5mm)	WHITE	GR44 (4mm)
11.5mm	BROWN	GR43 (3mm)	WHITE	GR44 (4mm)
12/12.38mm	BROWN	GR43 (3mm)	BROWN	GR43 (3mm)
13.5mm	PURPLE	GR42 (2.5mm)	BROWN	GR43 (3mm)
14mm	-	GR32 (2mm)	-	GR32 (2mm)

FRAMING

Your new **McArthur Evo 101.6mm Centre Pocket** 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 **McArthur Evo 101.6mm Centre Pocket** frame will retain it's good looks and resist the elements for years to come.

The **McArthur Evo 101.6mm Centre Pocket 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 **McArthur Evo 101.6mm Centre Pocket** 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 **McArthur Evo 101.6mm Centre Pocket 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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BRENDALE

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