Hastings
101.6mm Front Glazed Framing

Technical Manual

February 2024 | ISSUE C

EVERYTHING ALUMINIUM & HARDWARE

Hastings
Front Glazed Framing

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Contents

1. Technical Manual Release Notes

This page is intended to record all changes to the **HASTINGS 101.6mm FRONT GLAZED FRAMING** technical manual pages.

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

ISSUE	DATE	Amendment Description	Refer to Tech Memo #
	09/2008	Technical Manual Initial Release	48
A	02/2009	Technical Manual Updated	
B	05/2017	Technical Manual Updated For Re-Release	
C	04/2021	Technical Manual Updated For Re-Release	451

ALUMINIUM
Aluminium frames should be manufactred using Alspec's HASTINGS 101.6mm FRONT GLAZED FRAMING system.

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

GLAZING
Standard SG Panel: 6mm - 13.62mm
Standard DG Panel: 24mm - 28mm

Glazing wedges shall be Alspec's wedges and channels for HASTINGS 101.6mm FRONT GLAZED FRAMING system to suit standard and captive glazing options, refer to glazing pages in Alspec Technical Manual.

HARDWARE
All hardware 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 to AS2047.

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) or AS4666 (Insulated Glass Units).

Fabricators of the HASTINGS 101.6mm FRONT 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.

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
STEP 1 →	2400	S	1770	1450	1250	[illegible]	1010
		U	3440	2810	2410	[illegible]	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

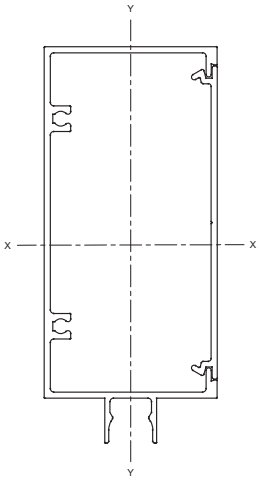
← STEP 3

STEP 2 ↑

3. Loading Tables

Mullion Combination AS101 + AS5

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

AS101 + AS5 MULLION COMBINATION	Panel Height		Maximum Design Pressure (Pa)						
	3900	S	1020						
		U	430						
	3600	S	550	450					
		U	1390	1120	950	820			
	3300	S	720	590	500	430			
		U	1660	1340	1140	990	880	800	740
	3000	S	970	790	670	590	530	480	450
		U	2020	1640	1390	1210	1090	990	920
	2700	S	1340	1090	930	820	750	690	650
		U	2510	2040	1740	1530	1380	1270	1190
	2400	S	1930	1580	1360	1210	1110	1040	990
		U	3210	2620	2240	1990	1810	1690	1600
	2100	S	2920	2420	2100	1890	1760	1680	1640
		U	4240	3490	3020	2700	2500	2370	2310
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	5880	4900	4300	3930	3730	3660	3730
Ixx = 957 x 10^3 mm^4	**Mullion Spacing**		**800**	**1000**	**1200**	**1400**	**1600**	**1800**	**2000**

Tables are based on theoretical section properties

3. Loading Tables

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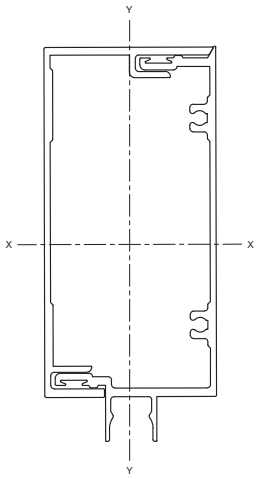
Split Mullion Combination AS102 + AS103

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

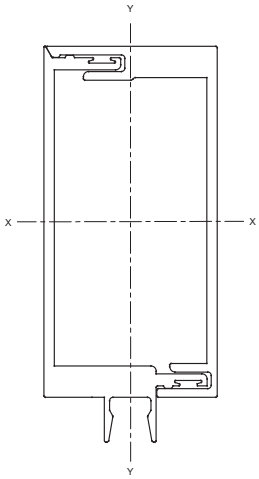
AS102 + AS103 SPLIT MULLION COMBINATION	Panel Height		Maximum Design Pressure (Pa)						
	3900	S	570	460					
		U	1460	1180	990	860			
	3600	S	730	590	500	430			
		U	1720	1390	1170	1020	900	820	750
	3300	S	960	770	660	570	510	470	430
		U	2060	1660	1410	1220	1090	990	920
	3000	S	1280	1040	880	780	700	640	600
		U	2500	2030	1720	1500	1350	1230	1140
	2700	S	1770	1440	1230	1090	990	910	860
		U	3110	2530	2150	1890	1710	1570	1470
	2400	S	2550	2090	1800	1600	1460	1370	1310
		U	3970	3240	2780	2460	2240	2090	1980
	2100	S	3000	3000	2770	2500	2330	2220	2170
		U	5240	4320	3730	3340	3090	2930	2860
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	7270	6060	5310	4860	4610	4530	4610
Ixx = 1264 x 10^3 mm^4	**Mullion Spacing**		**800**	**1000**	**1200**	**1400**	**1600**	**1800**	**2000**

Tables are based on theoretical section properties

3. Loading Tables

Mullion Combination AS111 + AS112

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

AS111 + AS112 MULLION COMBINATION	Panel Height		Maximum Design Pressure (Pa)						
	3900	S	790	640	540	470	410		
		U	1870	1510	1270	1100	970	880	800
	3600	S	1010	820	690	600	530	480	450
		U	2200	1780	1500	1300	1160	1050	960
	3300	S	1320	1070	900	790	710	640	600
		U	2630	2120	1790	1560	1390	1270	1170
	3000	S	1760	1430	1220	1070	960	880	820
		U	3190	2590	2190	1920	1720	1570	1460
	2700	S	2440	1990	1700	1500	1360	1260	1180
		U	3970	3230	2750	2410	2180	2010	1880
	2400	S	3000	2880	2470	2200	2020	1890	1800
		U	5060	4140	3540	3140	2860	2660	2530
	2100	S	3000	3000	3000	3000	3000	3000	2980
		U	6690	5510	4760	4270	3940	3740	3650
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	7730	6780	6200	5880	5780	5890
Ixx = 1738 x 10^3 mm^4	**Mullion Spacing**		**800**	**1000**	**1200**	**1400**	**1600**	**1800**	**2000**

Tables are based on theoretical section properties

3. Loading Tables

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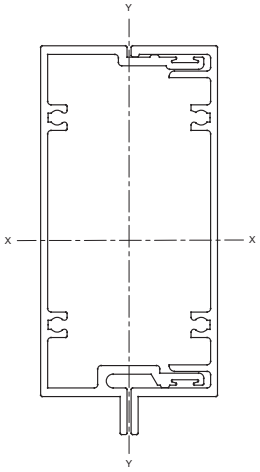
Mullion Combination AS114 + AS115

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

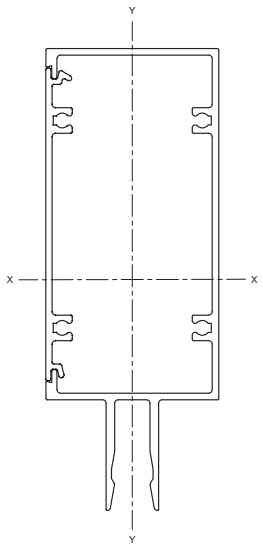
AS114 + AS115 MULLION COMBINATION	Panel Height		Maximum Design Pressure (Pa)						
	3900	S	700	570	480	410			
		U	1910	1540	1290	1120	1000	900	
	3600	S	900	720	610	530	470	430	
		U	2250	1810	1530	1330	1180	1070	980
	3300	S	1170	950	800	700	630	570	530
		U	2690	2170	1830	1600	1430	1300	1200
	3000	S	1560	1270	1080	950	850	780	730
		U	3260	2650	2240	1960	1760	1610	1490
	2700	S	2160	1760	1510	1330	1200	1110	1050
		U	4050	3300	2810	2470	2230	2050	1920
	2400	S	3000	2550	2190	1950	1790	1680	1600
		U	5170	4230	3620	3210	2920	2720	2590
	2100	S	3000	3000	3000	3000	2840	2710	2650
		U	6840	5630	4870	4360	4030	3830	3730
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	7900	6930	6340	6010	5900	6020
Ixx = 1544 x 10^3 mm^4	**Mullion Spacing**		**800**	**1000**	**1200**	**1400**	**1600**	**1800**	**2000**

Tables are based on theoretical section properties

3. Loading Tables

Mullion Combination AS201 + AS205

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

AS201 + AS205 MULLION COMBINATION	Panel Height		Maximum Design Pressure (Pa)						
	3900	S	630	510	430				
		U	1500	1210	1020	880	780		
	3600	S	800	650	550	480	420		
		U	1770	1420	1200	1040	930	840	770
	3300	S	1050	850	720	630	560	510	470
		U	2110	1710	1440	1250	1120	1020	940
	3000	S	1400	1140	970	850	760	700	650
		U	2560	2080	1760	1540	1380	1260	1170
	2700	S	1940	1580	1350	1190	1080	1000	940
		U	3180	2590	2200	1940	1750	1610	1510
	2400	S	2790	2290	1970	1750	1610	1500	1440
		U	4060	3320	2840	2520	2290	2140	2030
	2100	S	3000	3000	3000	2740	2550	2430	2380
		U	5370	4420	3820	3430	3170	3010	2930
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	7450	6210	5450	4980	4720	4640	4730
Ixx = 1385 x 10^3 mm^4	**Mullion Spacing**		**800**	**1000**	**1200**	**1400**	**1600**	**1800**	**2000**

Tables are based on theoretical section properties

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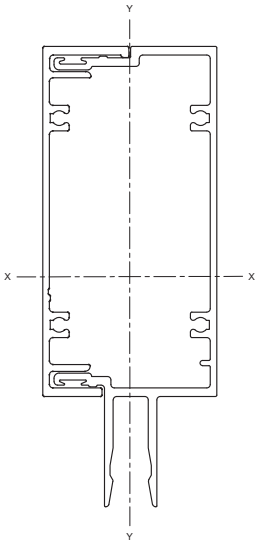
Mullion Combination AS202 + AS203

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

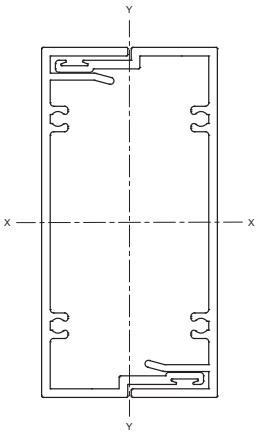
AS202 + AS203 MULLION COMBINATION	Panel Height		Maximum Design Pressure (Pa)						
	3900	S	810	650	550	480	420		
		U	1910	1540	1290	1120	990	900	820
	3600	S	1030	830	700	610	540	490	460
		U	2250	1810	1530	1330	1180	1070	980
	3300	S	1340	1090	920	800	720	660	610
		U	2680	2170	1830	1600	1420	1300	1200
	3000	S	1800	1460	1240	1090	980	900	840
		U	3260	2640	2240	1960	1760	1610	1490
	2700	S	2490	2030	1730	1530	1390	1280	1210
		U	4050	3300	2800	2470	2220	2050	1920
	2400	S	3000	2930	2520	2250	2060	1930	1840
		U	5170	4230	3620	3210	2920	2720	2590
	2100	S	3000	3000	3000	3000	3000	3000	3000
		U	6830	5630	4860	4360	4030	3830	3730
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	7890	6930	6340	6010	5900	6020
Ixx = 1772 x 10^3 mm^4	**Mullion Spacing**		**800**	**1000**	**1200**	**1400**	**1600**	**1800**	**2000**

Tables are based on theoretical section properties

3. Loading Tables

Mullion Combination AS122 x2

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

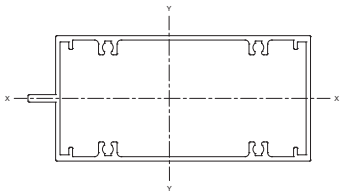
AS122 x2 MULLION COMBINATION	Panel Height		Maximum Design Pressure (Pa)						
	3900	S	660	530	450				
		U	1990	1600	1350	1170	1040		
	3600	S	840	680	570	500	450		
		U	2340	1890	1590	1380	1230	1110	1020
	3300	S	1100	890	750	660	590	540	500
		U	2790	2260	1910	1660	1480	1350	1250
	3000	S	1470	1200	1020	890	800	740	690
		U	3390	2750	2330	2040	1830	1670	1550
	2700	S	2040	1660	1420	1250	1130	1050	990
		U	4220	3430	2920	2570	2320	2130	2000
	2400	S	2930	2400	2070	1840	1690	1580	1510
		U	5380	4400	3770	3340	3040	2830	2690
	2100	S	3000	3000	3000	2880	2680	2550	2500
		U	7110	5860	5060	4540	4190	3980	3880
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	8220	7210	6590	6250	6140	6260
Ixx = 1452 x 10^3 mm^4	**Mullion Spacing**		**800**	**1000**	**1200**	**1400**	**1600**	**1800**	**2000**

Tables are based on theoretical section properties

3. Loading Tables

Transom Combination AS110

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

AS110 TRANSOM	Transom Centres		Maximum Design Loads (Pa)				
	2400	S	3000	3000	2800	1580	
		U	9000	5550	3380	2280	
	2100	S	3000	3000	2900	1650	990
		U	9000	5850	3560	2360	1620
	1800	S	3000	3000	3000	1700	1050
		U	9000	6150	3750	2430	1730
	1500	S	3000	3000	3000	1840	1170
		U	9000	6480	3900	2650	1940
	1200	S	3000	3000	3000	2120	1370
		U	9000	6870	4400	3090	2300
	900	S	3000	3000	3000	2660	1750
		U	9000	8190	5460	3910	2950
	Max Kg		150	150	150	150	95
Ixx = 974 x 10^3 mm^4 Iyy = 296 x 10^3 mm^4	**Transom Length**		**1200**	**1500**	**1800**	**2100**	**2400**

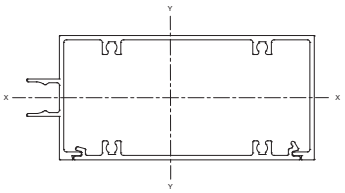
Tables are based on theoretical section properties

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

3. Loading Tables

Transom Combination AS101 + AS5

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

AS101 + AS5 TRANSOM	Transom Centres		Maximum Design Loads (Pa)			
	2400	S	3000	3000	3000	
		U	9000	5430	3300	
	2100	S	3000	3000	3000	
		U	9000	5710	3480	
	1800	S	3000	3000	3000	1670
		U	9000	6010	3660	2370
	1500	S	3000	3000	3000	1810
		U	9000	6330	3810	2590
	1200	S	3000	3000	3000	2080
		U	9000	6700	4300	3020
	900	S	3000	3000	3000	2620
		U	9000	7990	5330	3820
	Max Kg		150	150	105	65
Ixx = 957 x 10^3 mm^4 Iyy = 135 x 10^3 mm^4	**Transom Length**		**1200**	**1500**	**1800**	**2100**

Tables are based on theoretical section properties

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

3. Loading Tables

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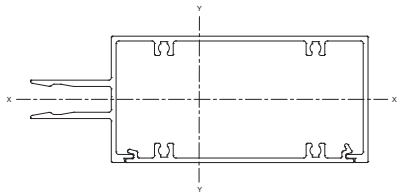
Transom Combination AS201 + AS205

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

AS201 + AS205 TRANSOM	Transom Centres		Maximum Design Loads (Pa)			
	2400	S	3000	3000	3000	
		U	9000	6850	4170	
	2100	S	3000	3000	3000	
		U	9000	7220	4380	
	1800	S	3000	3000	3000	
		U	9000	7600	4620	
	1500	S	3000	3000	3000	
		U	9000	8000	4810	
	1200	S	3000	3000	3000	2940
		U	9000	8470	5430	3810
	900	S	3000	3000	3000	3000
		U	9000	9000	6730	4830
	Max Kg		150	150	120	75
Ixx = 1350 x 10^3 mm^4 Iyy = 152 x 10^3 mm^4	**Transom Length**		**1200**	**1500**	**1800**	**2100**

Tables are based on theoretical section properties

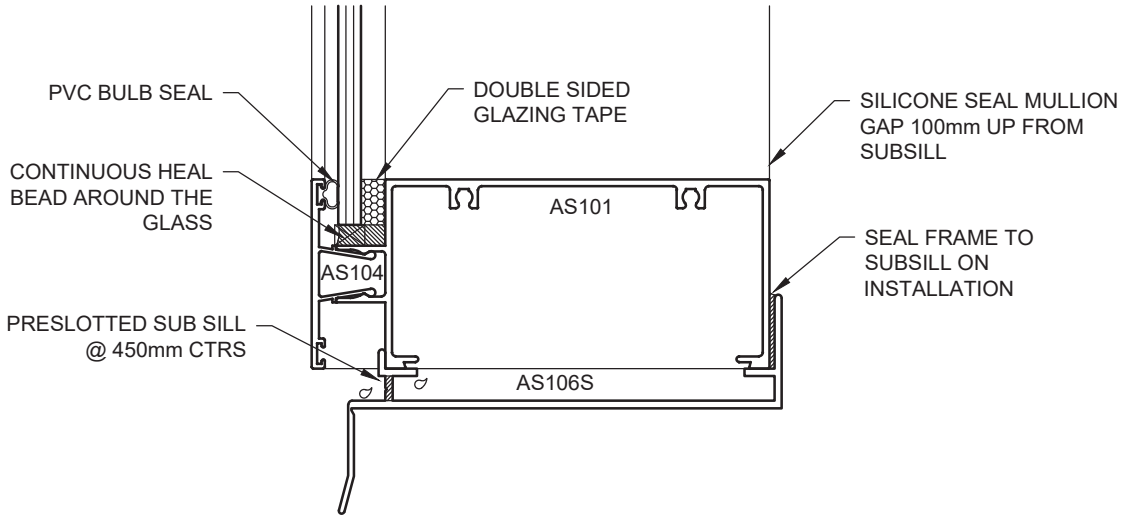
Maximum glass weights have been determined to limit deflection to 5mm, using setting block locations at 1/8 points.

4. Test Summary

Hastings
Front Glazed Framing

AS2047 - Single Glazed Window Configuration

TEST REPORT:	0002
SYSTEM CONFIGURATION	HASTINGS 101.6mm F/F FRONT GLAZED, SINGLE GLAZED FRAMING
TEST SAMPLE SIZE	2.4m high x 3.0m wide
SERVICEABILITY LOAD	+/- 1.3 kPa
ULTIMATE LOAD	+/- 1.8 kPa
WATER PENETRATION	300 Pa
AIR INFILTRATION	150Pa + 0.04L/m/s² - 0.05L/m/s²



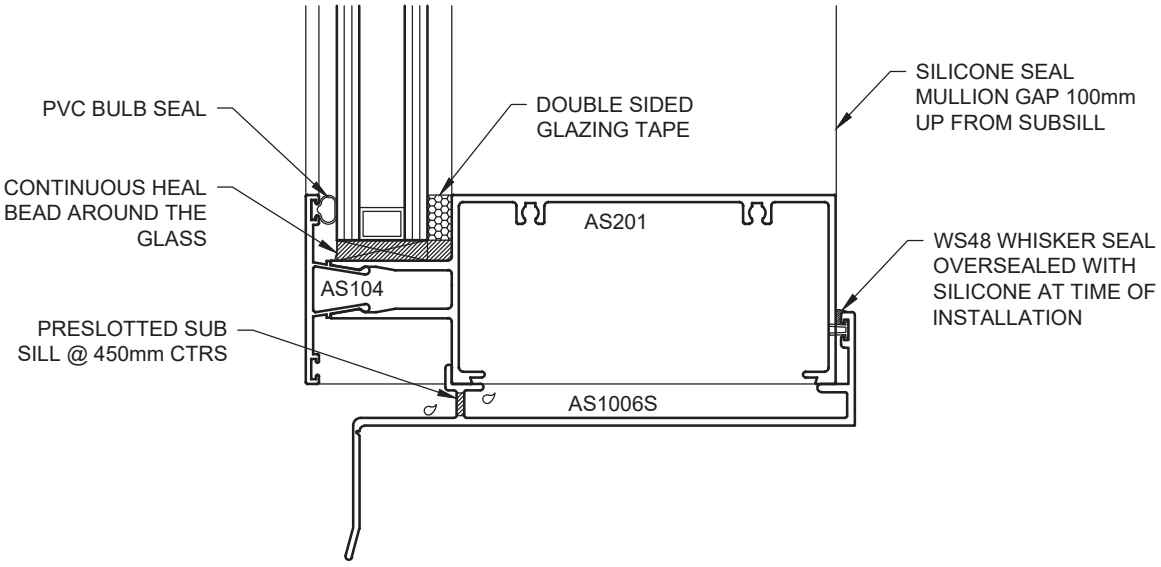
DISCLAIMER:
Please note that the test results shown above reflect specific configurations of a system and are representative only. If a specific high wind load or a different configuration (i.e. changes to frames, transoms, mullions) is required on a project please discuss with Alspec prior to commencement.

4. Test Summary

Hastings
Front Glazed Framing

AS2047 - Double Glazed Window Configuration

TEST REPORT:	AS13-217
SYSTEM CONFIGURATION	HASTINGS 101.6mm F/F FRONT GLAZED, DOUBLE GLAZED FRAMING
TEST SAMPLE SIZE	2.4m high x 2.4m wide
SERVICEABILITY LOAD	+/- 2.4 kPa
ULTIMATE LOAD	+/- 3.0 kPa
WATER PENETRATION	1000 Pa
AIR INFILTRATION	75Pa + 0.09L/m/s² - 0.03L/m/s²



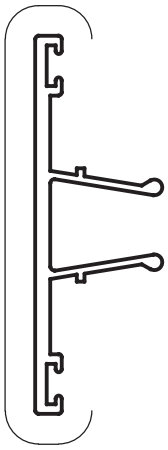
DISCLAIMER:
Please note that the test results shown above reflect specific configurations of a system and are representative only. If a specific high wind load or a different configuration (i.e. changes to frames, transoms, mullions) is required on a project please discuss with Alspec prior to commencement.

4. Test Summary

Acoustic - AS/NZS ISO 717.1

TEST REPORT	PRODUCT DESCRIPTION	SIZE	GLASS	SEALS	Rw
4863-R13	HASTINGS 101.6mm FRONT GLAZED, SINGLE GLAZED FRAMING	2.1m (H) x 1.8m (W)	6.38mm Clear LAMINATE	HB1 BULB SEAL	32 (-1, -2)

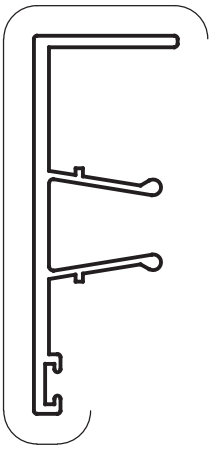
VISIBLE SURFACE



AS104
SNAP ADAPTOR

Mass. 0.381 Kg/m
Anod. Per. 188
Paint Per. 100

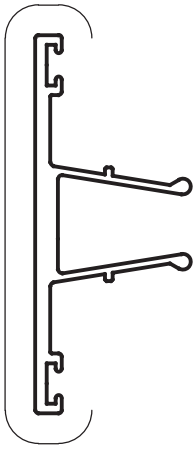
VISIBLE SURFACE



AS105
SNAP ADAPTOR

Mass. 0.443 Kg/m
Anod. Per. 211
Paint Per. 100

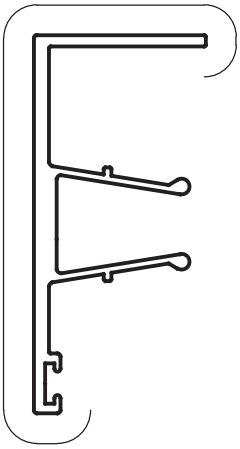
VISIBLE SURFACE



AS124
SNAP ADAPTOR

Mass. 0.438 Kg/m
Anod. Per. 201
Paint Per. 100

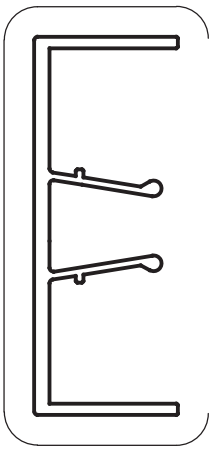
VISIBLE SURFACE



AS125
SNAP ADAPTOR
WITH LEG

Mass. 0.515 Kg/m
Anod. Per. 232
Paint Per. 100

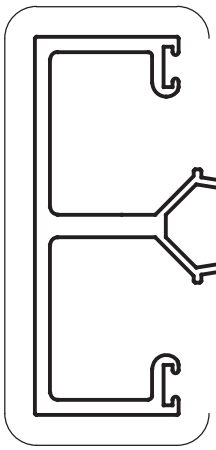
VISIBLE SURFACE



AS119
SNAP COVER

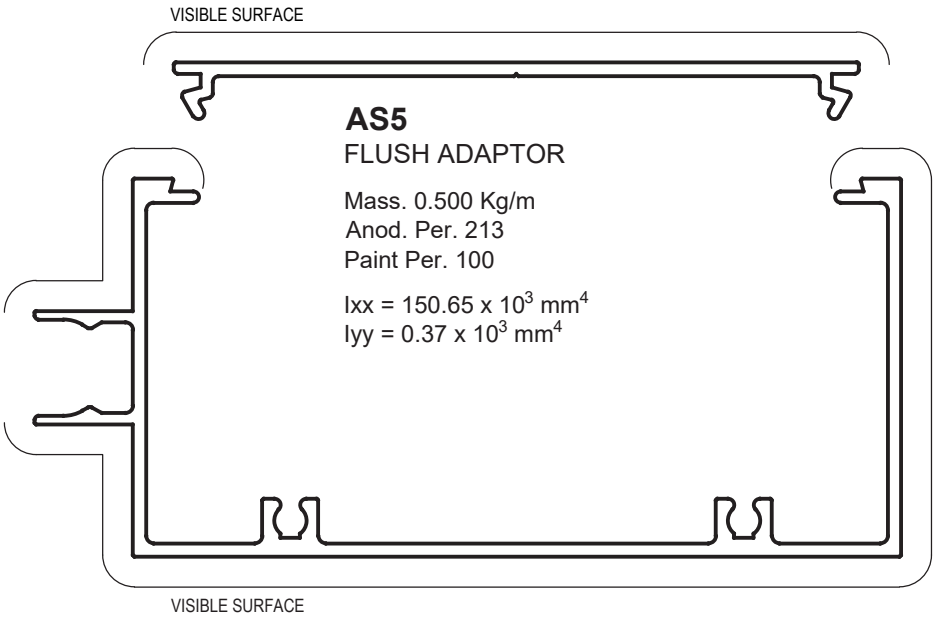
Mass. 0.505 Kg/m
Anod. Per. 235
Paint Per. 100

VISIBLE SURFACE



AS113
DEEP ADAPTOR

Mass. 0.749 Kg/m
Anod. Per. 235
Paint Per.100



AS5
FLUSH ADAPTOR

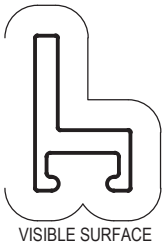
Mass. 0.500 Kg/m
Anod. Per. 213
Paint Per. 100

Ixx = 150.65 x 10^3 mm^4
Iyy = 0.37 x 10^3 mm^4

AS101
FRAME

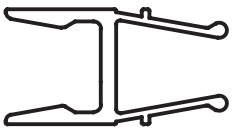
Mass. 1.276 Kg/m
Anod. Per. 519
Paint Per. 161

Ixx = 807.30 x 10^3 mm^4
Iyy = 135.80 x 10^3 mm^4



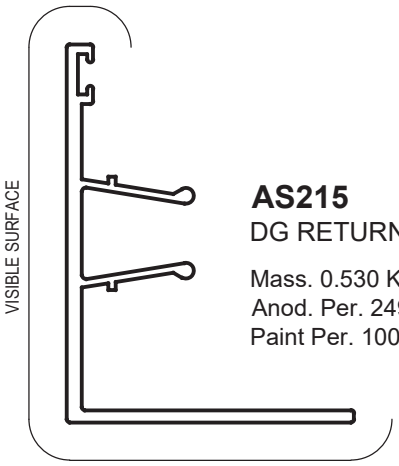
AS108
PLANT ON DOOR STOP

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



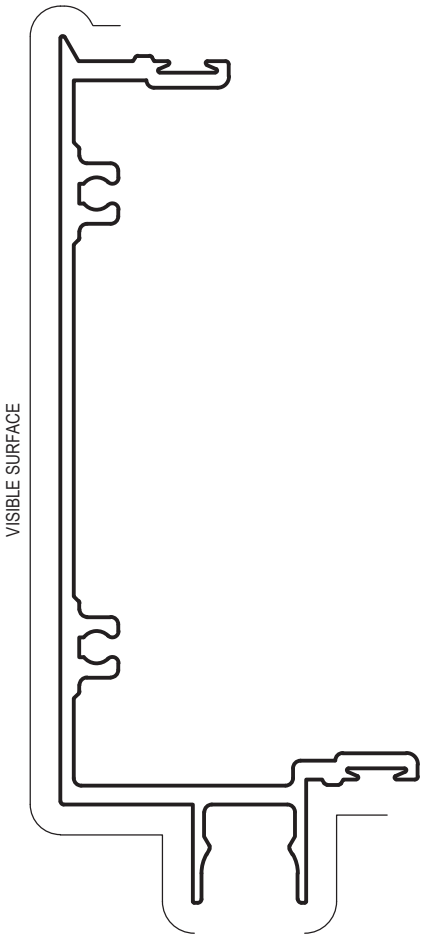
AS126
DOUBLE SNAP
GLAZING ADAPTOR

Mass. 0.299 Kg/m
Anod. Per. 147
NO VISIBLE SURFACE



AS215
DG RETURN END CAP

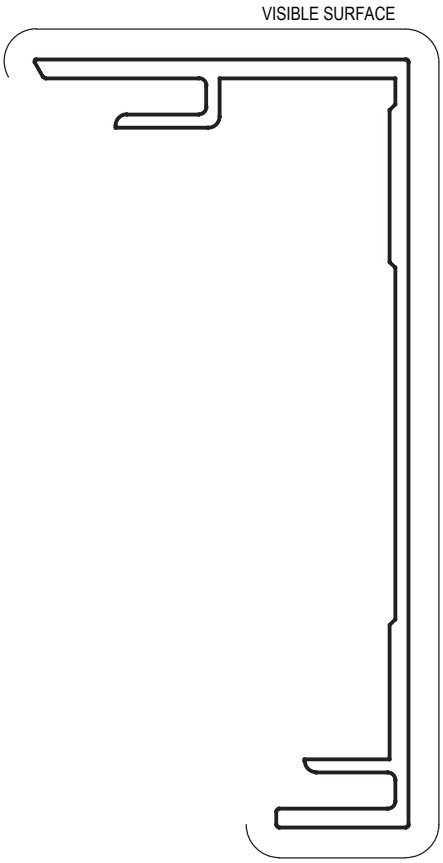
Mass. 0.530 Kg/m
Anod. Per. 249
Paint Per. 100



AS102
SPLIT MULLION
(MALE)

Mass. 1.237 Kg/m
Anod. Per. 451
Paint Per. 157

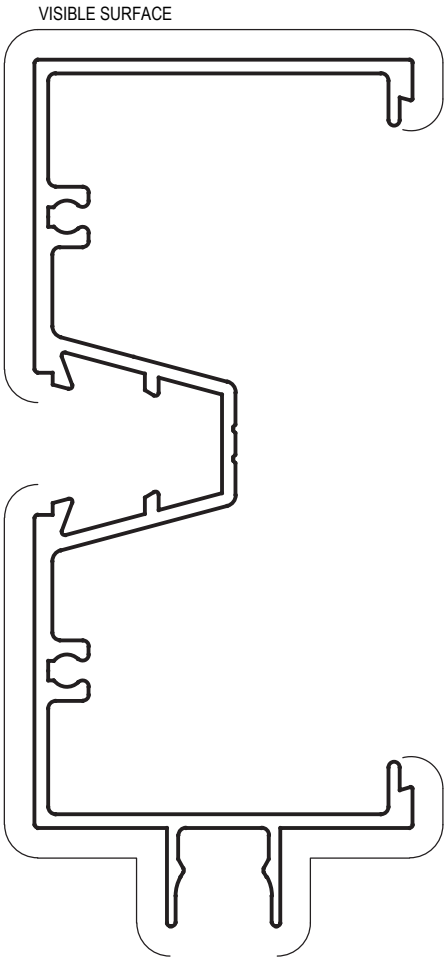
Ixx = 661.20 x 10^3 mm^4
Iyy = 77.00 x 10^3 mm^4



AS103
SPLIT MULLION
(FEMALE)

Mass. 1.090 Kg/m
Anod. Per. 387
Paint Per. 169

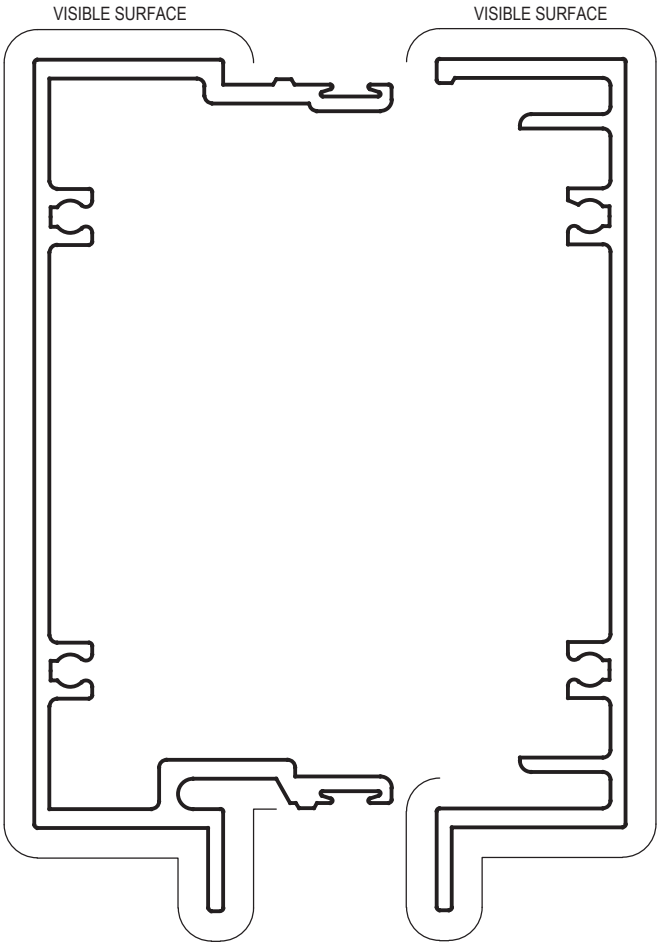
Ixx = 603.35 x 10^3 mm^4
Iyy = 73.92 x 10^3 mm^4



AS121
JAMB / FRAME
WITH SIDE POCKET

Mass. 1.626 Kg/m
Anod. Per. 620
Paint Per. 244

Ixx = 837.27 x 10^3 mm^4
Iyy = 142.79 x 10^3 mm^4



AS115
STRUCTURAL SPLIT
MULLION (MALE)

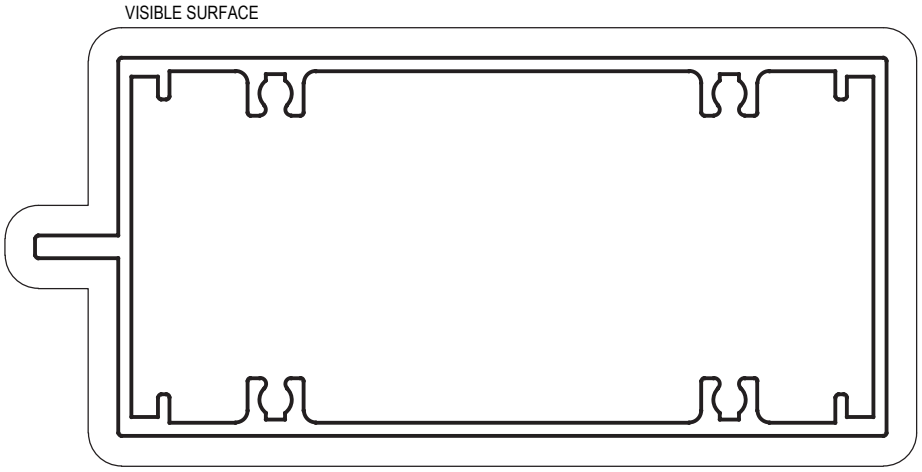
Mass. 1.491 Kg/m
Anod. Per. 502
Paint Per. 163

Ixx = 890.33 x 10^3 mm^4
Iyy = 111.53 x 10^3 mm^4

AS114
STRUCTURAL SPLIT
MULLION (FEMALE)

Mass. 1.177 Kg/m
Anod. Per. 408
Paint Per. 163

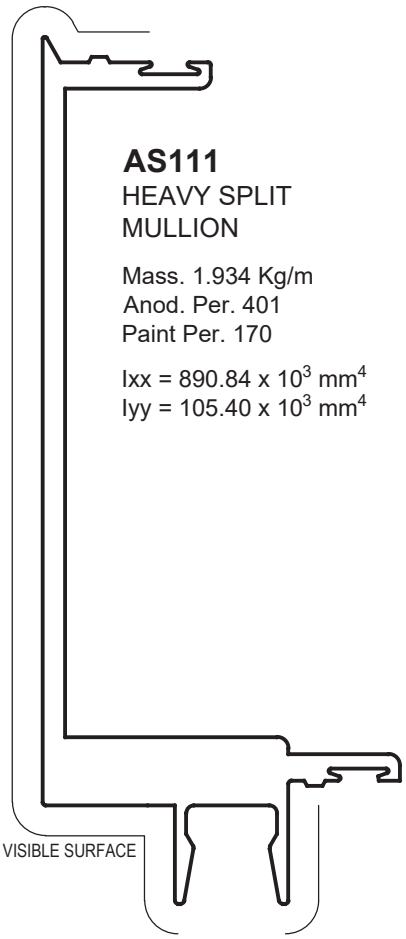
Ixx = 652.63 x 10^3 mm^4
Iyy = 24.97x 10^3 mm^4



AS110**
STRUCTURAL
GLAZED TRANSOM

Mass. 1.859 Kg/m
Anod. Per. 324
Paint Per. 324

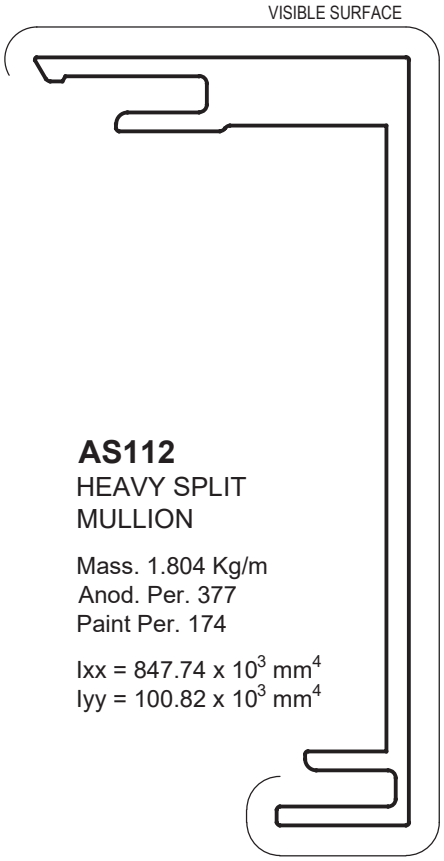
Ixx = 973.92 x 10^3 mm^4
Iyy = 296.59 x 10^3 mm^4



AS111
HEAVY SPLIT
MULLION

Mass. 1.934 Kg/m
Anod. Per. 401
Paint Per. 170

Ixx = 890.84 x 10^3 mm^4
Iyy = 105.40 x 10^3 mm^4

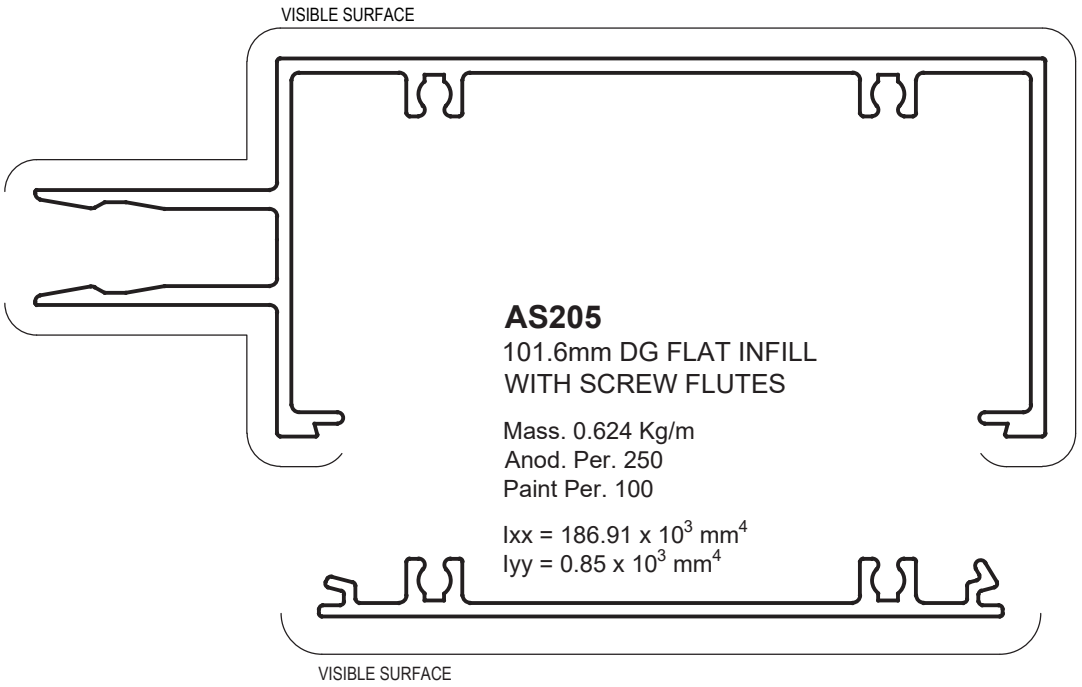


AS112
HEAVY SPLIT
MULLION

Mass. 1.804 Kg/m
Anod. Per. 377
Paint Per. 174

Ixx = 847.74 x 10^3 mm^4
Iyy = 100.82 x 10^3 mm^4

** NON STOCK ITEM



AS205
101.6mm DG FLAT INFILL
WITH SCREW FLUTES

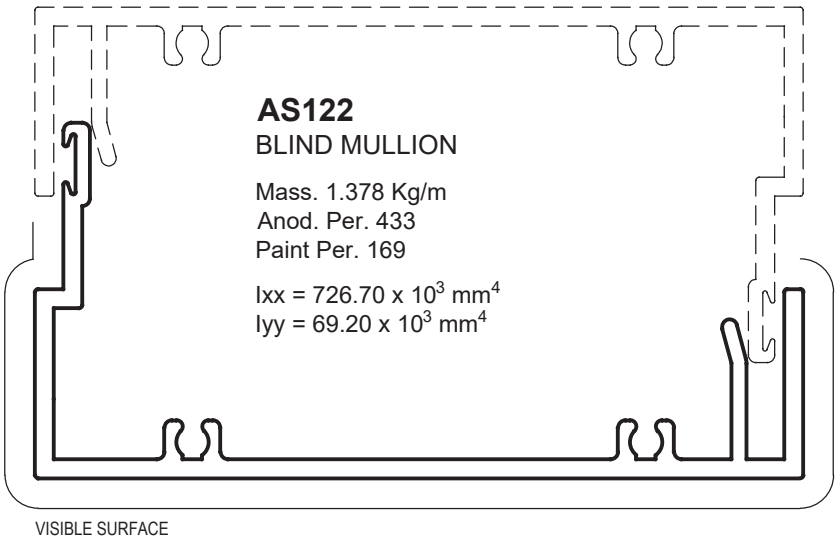
Mass. 0.624 Kg/m
Anod. Per. 250
Paint Per. 100

Ixx = 186.91 x 10^3 mm^4
Iyy = 0.85 x 10^3 mm^4

AS201
101.6mm DOUBLE
GLAZED FRAME

Mass. 1.613 Kg/m
Anod. Per. 591
Paint Per. 260

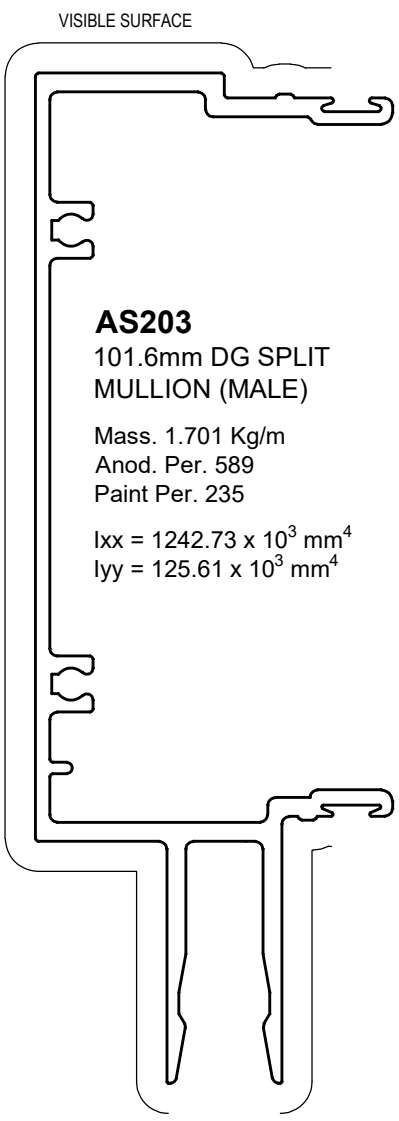
Ixx = 1198.59 x 10^3 mm^4
Iyy = 152.67 x 10^3 mm^4



AS122
BLIND MULLION

Mass. 1.378 Kg/m
Anod. Per. 433
Paint Per. 169

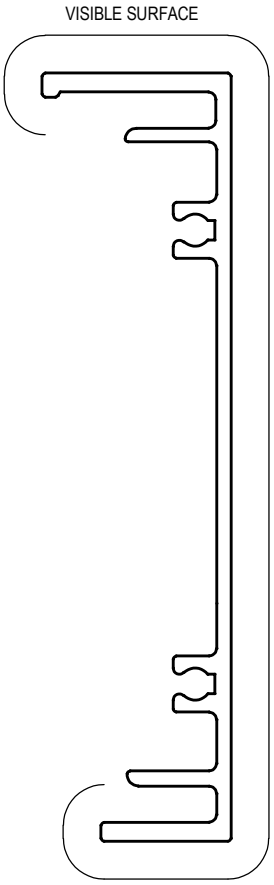
Ixx = 726.70 x 10^3 mm^4
Iyy = 69.20 x 10^3 mm^4



AS203
101.6mm DG SPLIT MULLION (MALE)

Mass. 1.701 Kg/m
Anod. Per. 589
Paint Per. 235

Ixx = 1242.73 x 10^3 mm^4
Iyy = 125.61 x 10^3 mm^4

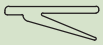
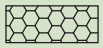


AS202
101.6mm DG SPLIT MULLION (FEMALE)

Mass. 1.043 Kg/m
Anod. Per. 371
Paint Per. 149

Ixx = 530.30 x 10^3 mm^4
Iyy = 12.98 x 10^3 mm^4

Seals

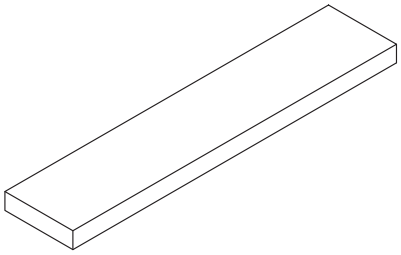
IMAGE	PART #	FINISH	DESCRIPTION
	1376300	BLACK (034)	HB1 BULB SEAL x 100m
	1376301		HB1 BULB SEAL x 1m
	1376451	BLACK (034)	MS1B MULLION RUBBER x 1m
	1376452		MS1B MULLION RUBBER x 100m
	1376847	BLACK (034)	WS48 SEAL PVC x 1m
	1376848		WS48 PVC SEAL x 500m
	1385506	BLACK (034)	12mm x 6.4mm DOUBLE SIDED GLAZING TAPE x 10.7m
	1385549		12mm x 3.2mm DOUBLE SIDED GLAZING TAPE x 30.5m
	1385577		12mm x 4.8mm DOUBLE SIDED GLAZING TAPE x 15.2m
	1385580		12mm x 1.6mm DOUBLE SIDED GLAZING TAPE x 61m

Fasteners

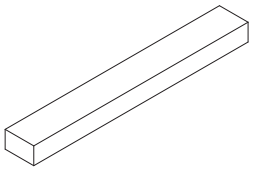
SCREWS			
PART #	HEAD	DESCRIPTION	LOCATION
1382054	PHILLIPS	10g x 1 (25mm) SS PHIL PAN S/TAP SCREW x 500	Framing

6. Hardware & Components

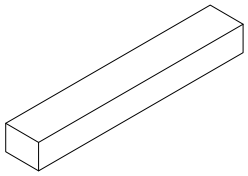
Accessories



SETTING BLOCK 5 x 21 x 100mm BAG OF 100	
PART	1376774
FINISH	BLACK (034)
QTY	BAG OF 100



SETTING BLOCK 10 x 6 x 75mm BAG OF 100	
PART	1376775
FINISH	BLACK (034)
QTY	BAG OF 100



SETTING BLOCK 6 x 8 x 50mm BAG OF 1000	
PART	1376776
FINISH	BLACK (034)
QTY	BAG OF 1000

Silicone

100% NEUTRAL CURE SILICONE

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

100% MATTE NEUTRAL CURE SILIICONE

- 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.

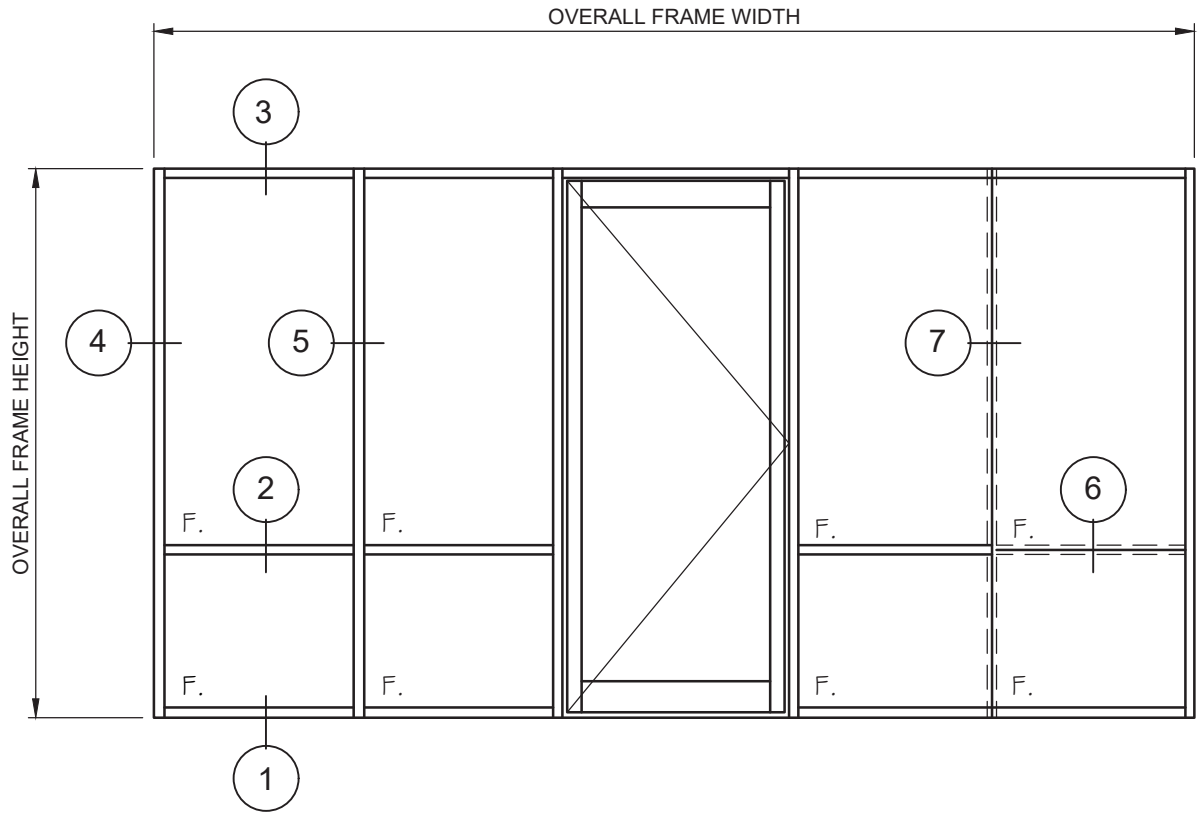
Hastings
Front Glazed Framing

Silicone Product Codes

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

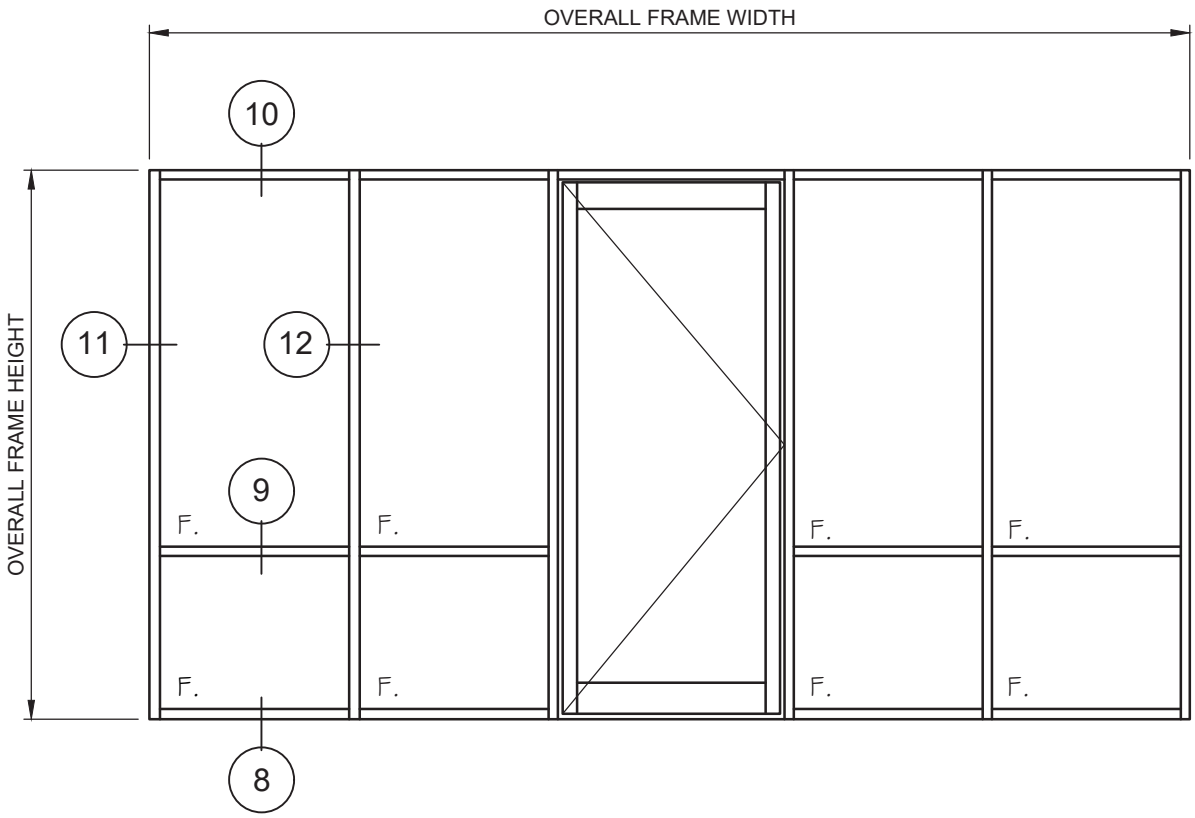
7. Typical Elevation

Single Glazing



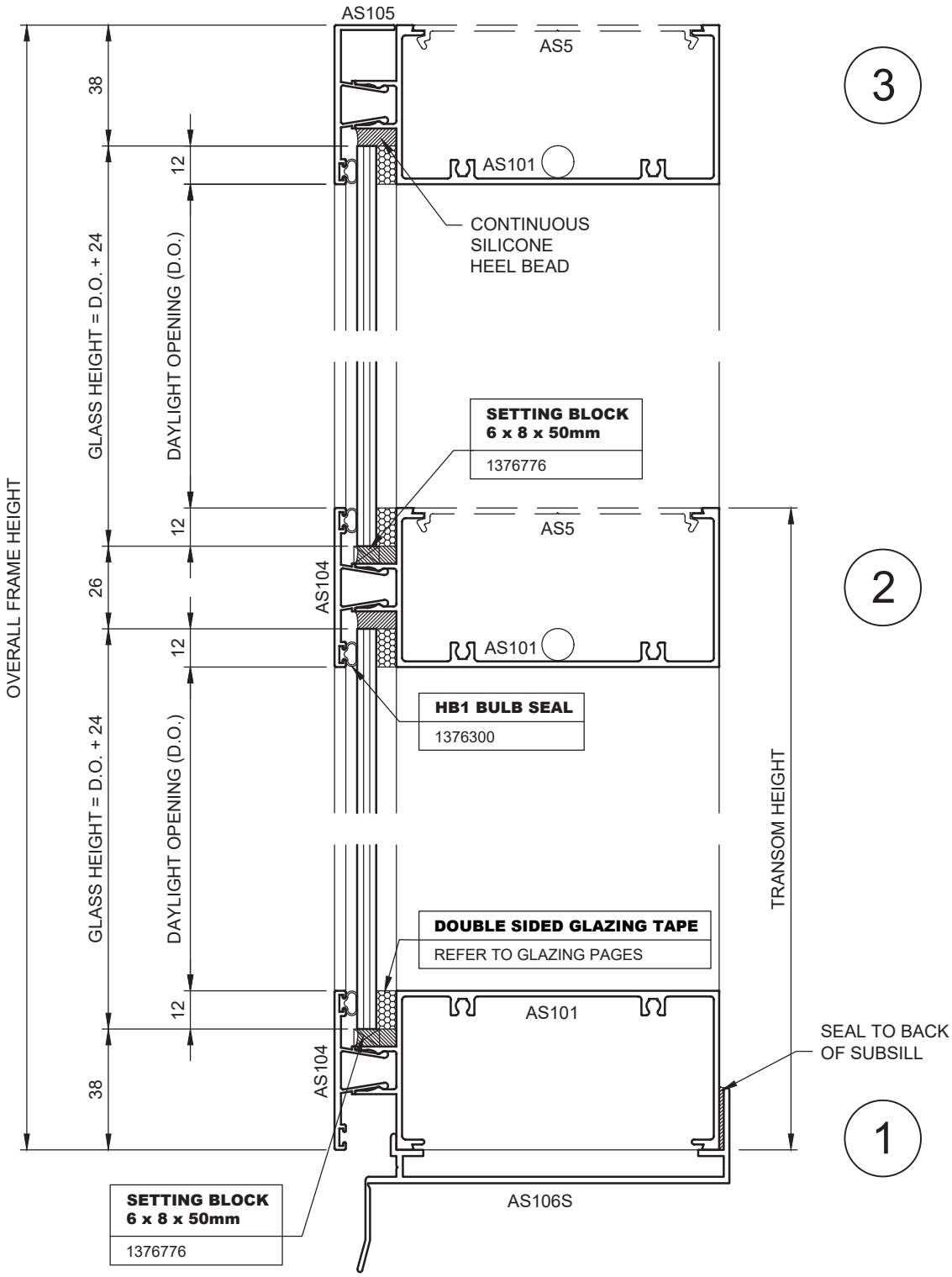
7. Typical Elevation

Double Glazing



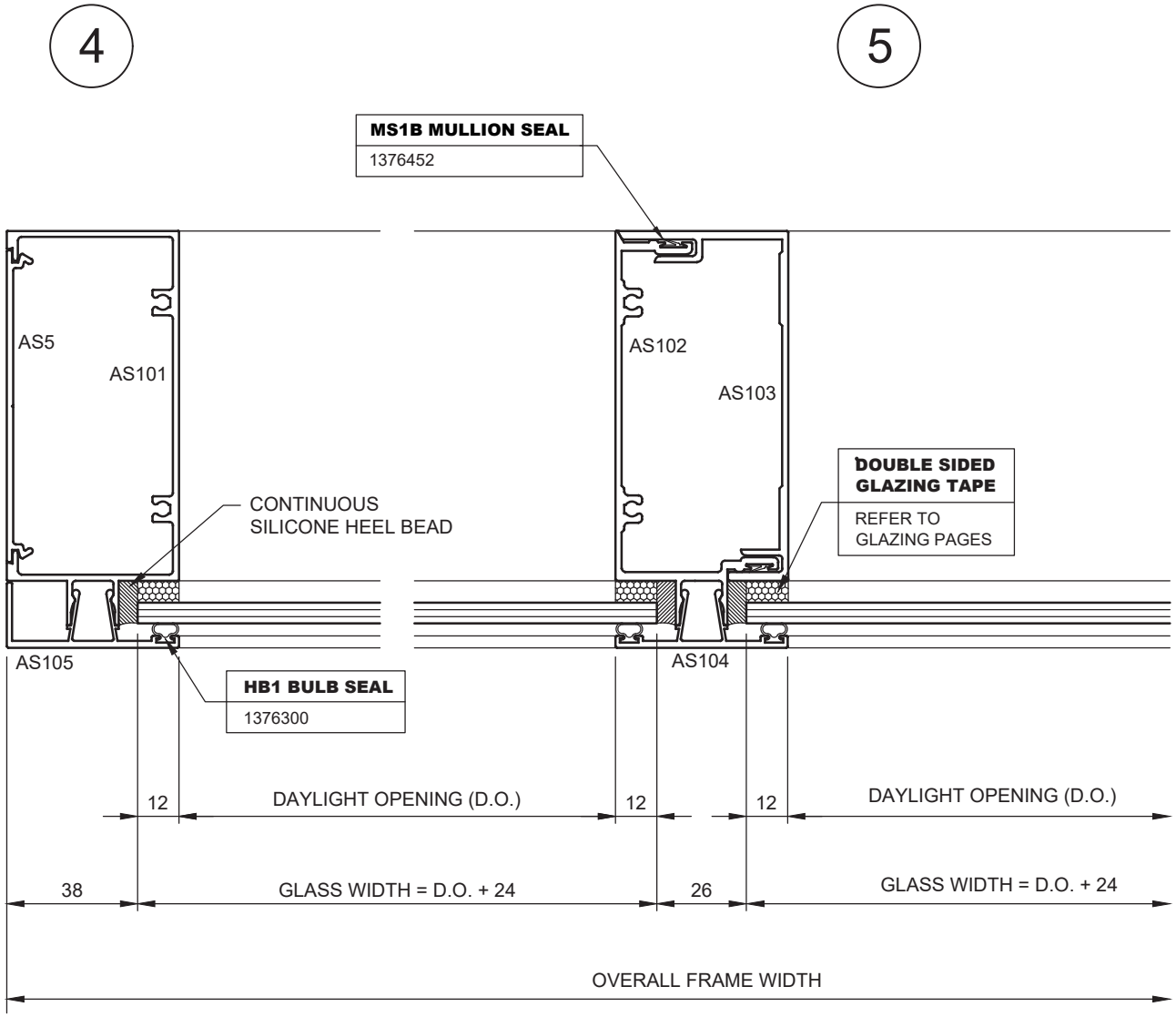
8. Typical Details

Sill, Transom and Head Details



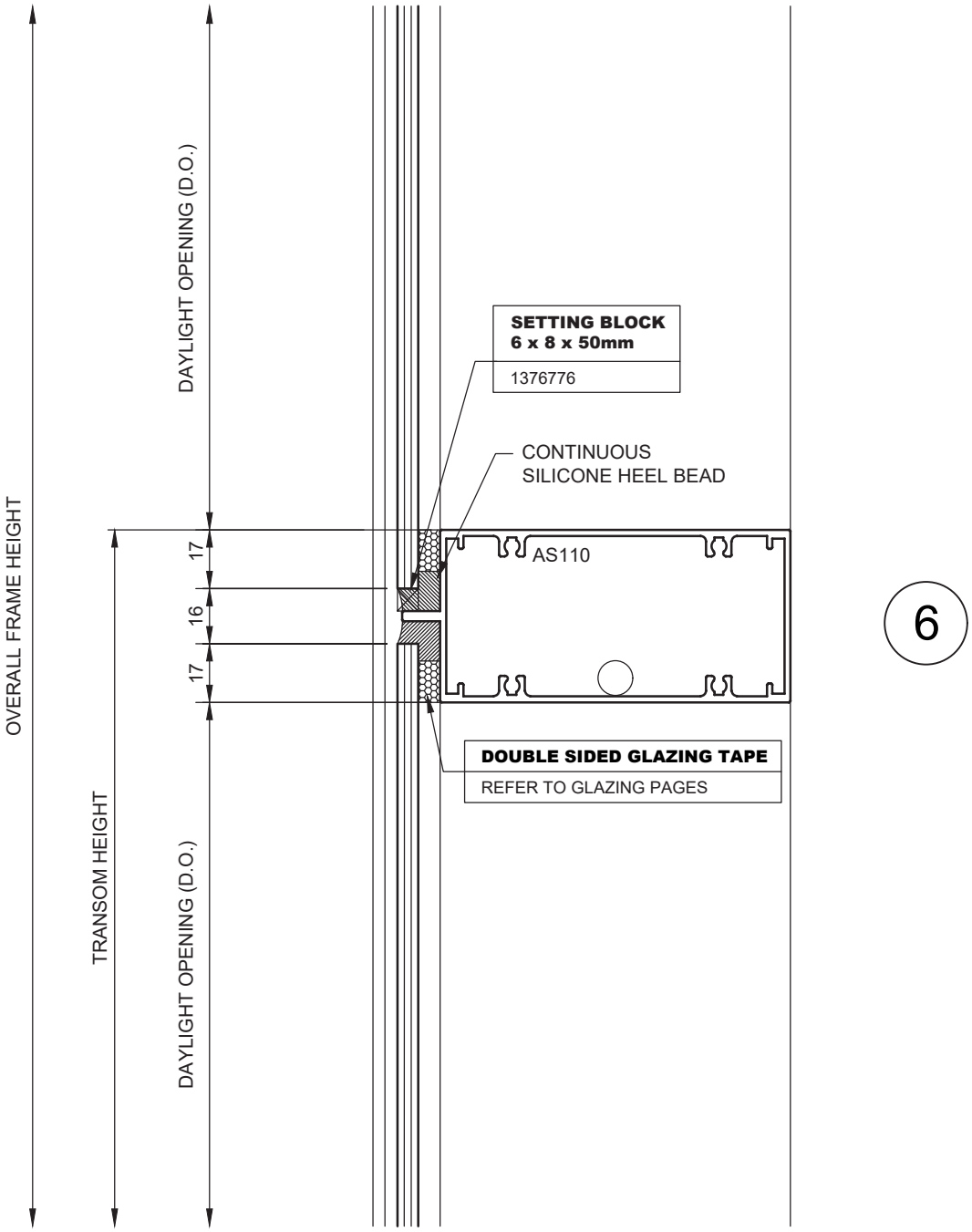
Hastings
Front Glazed Framing

Jamb and Mullion Details

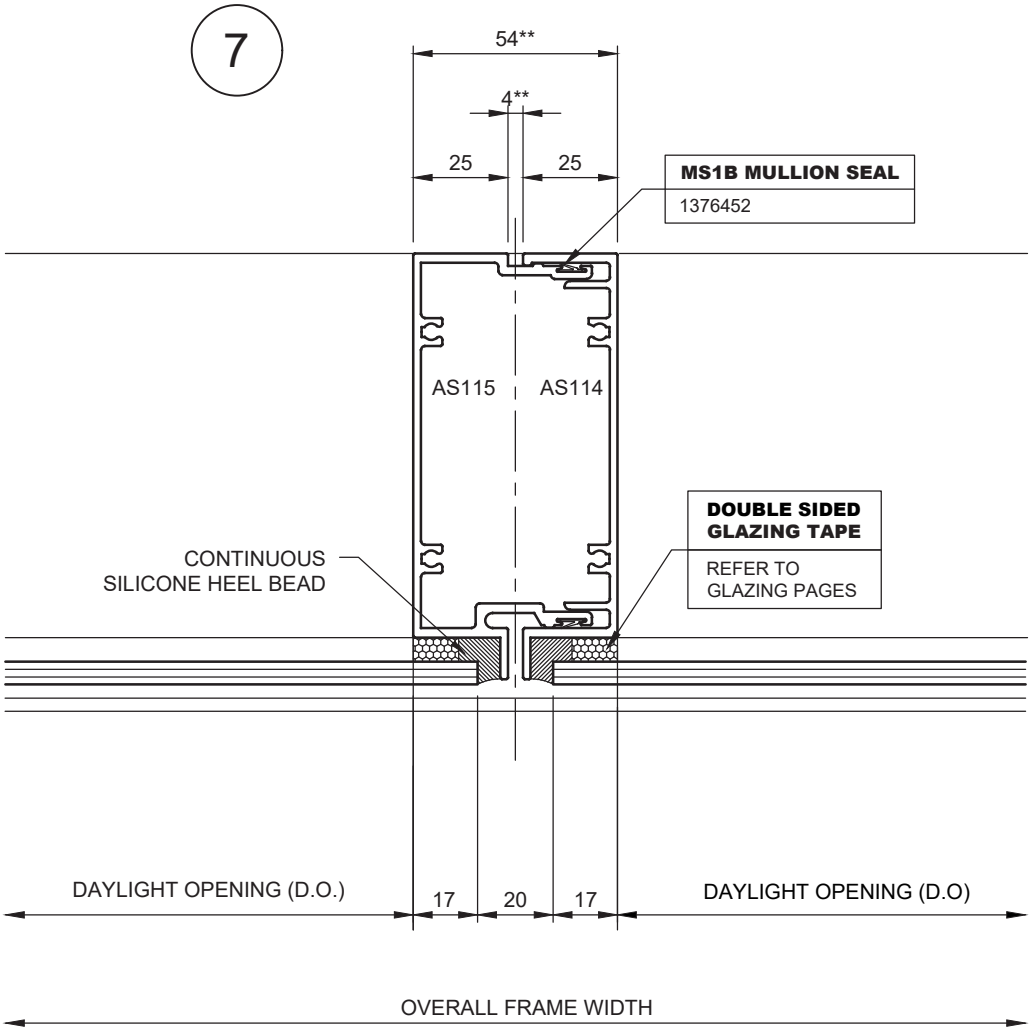


Hastings
Front Glazed Framing

Silicone Glazed Transom Details

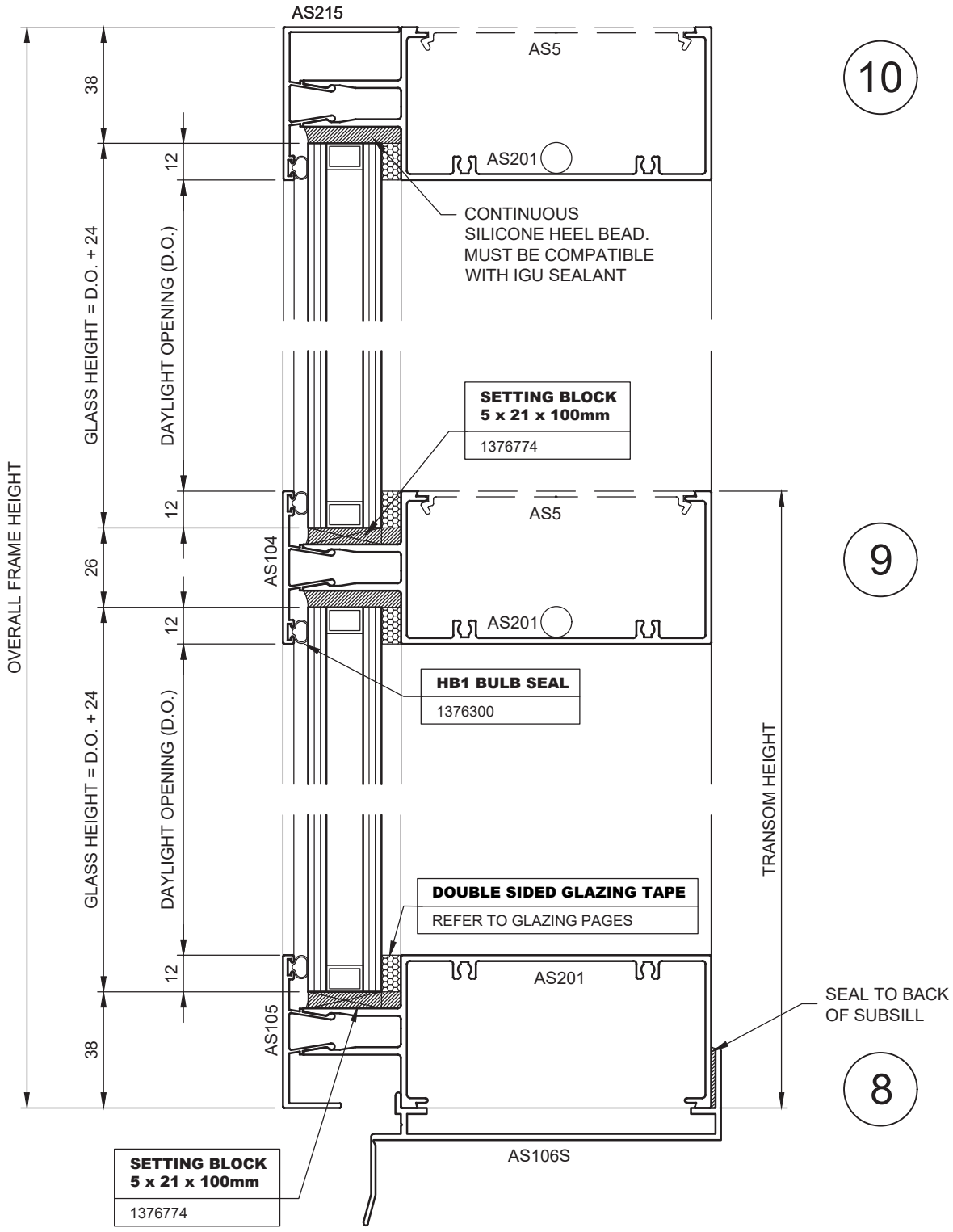


Silicone Glazed Mullion Detail

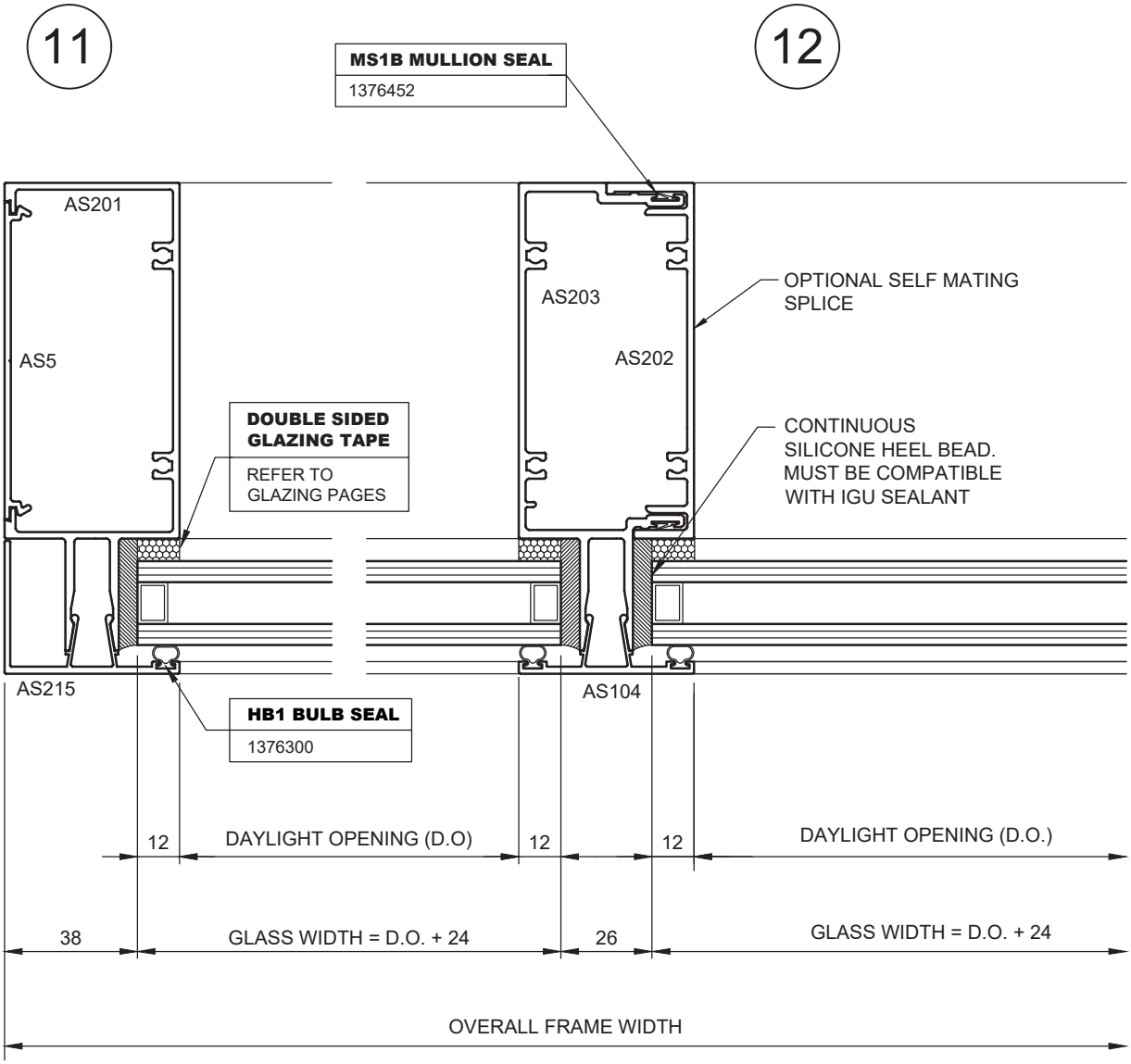


** NOMINAL DIMENSIONS ONLY. MAY VARY TO PROJECT REQUIREMENTS.

Double Glazed Sill, Transom and Head Details

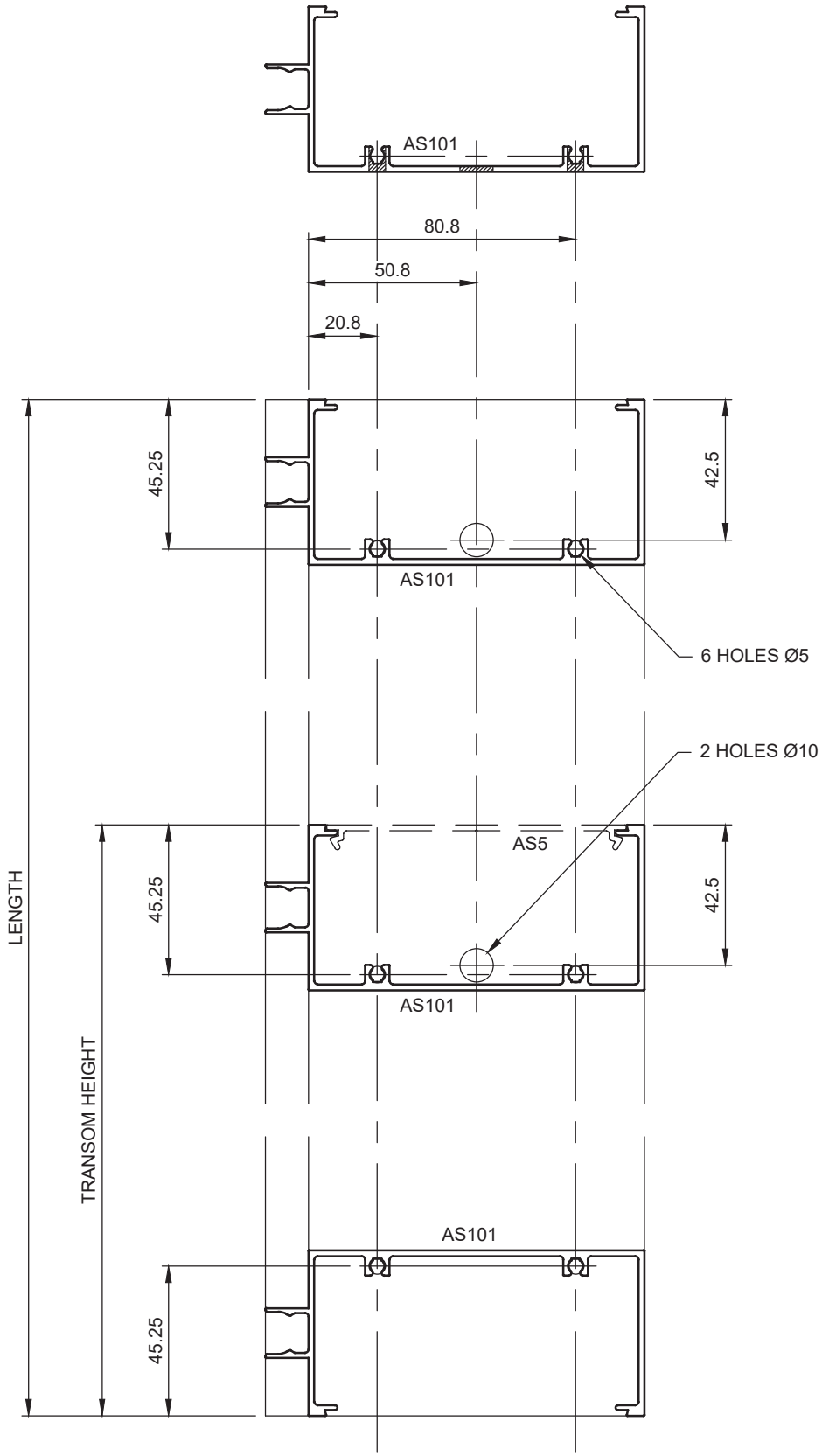


Double Glazed Jamb and Mullion Details

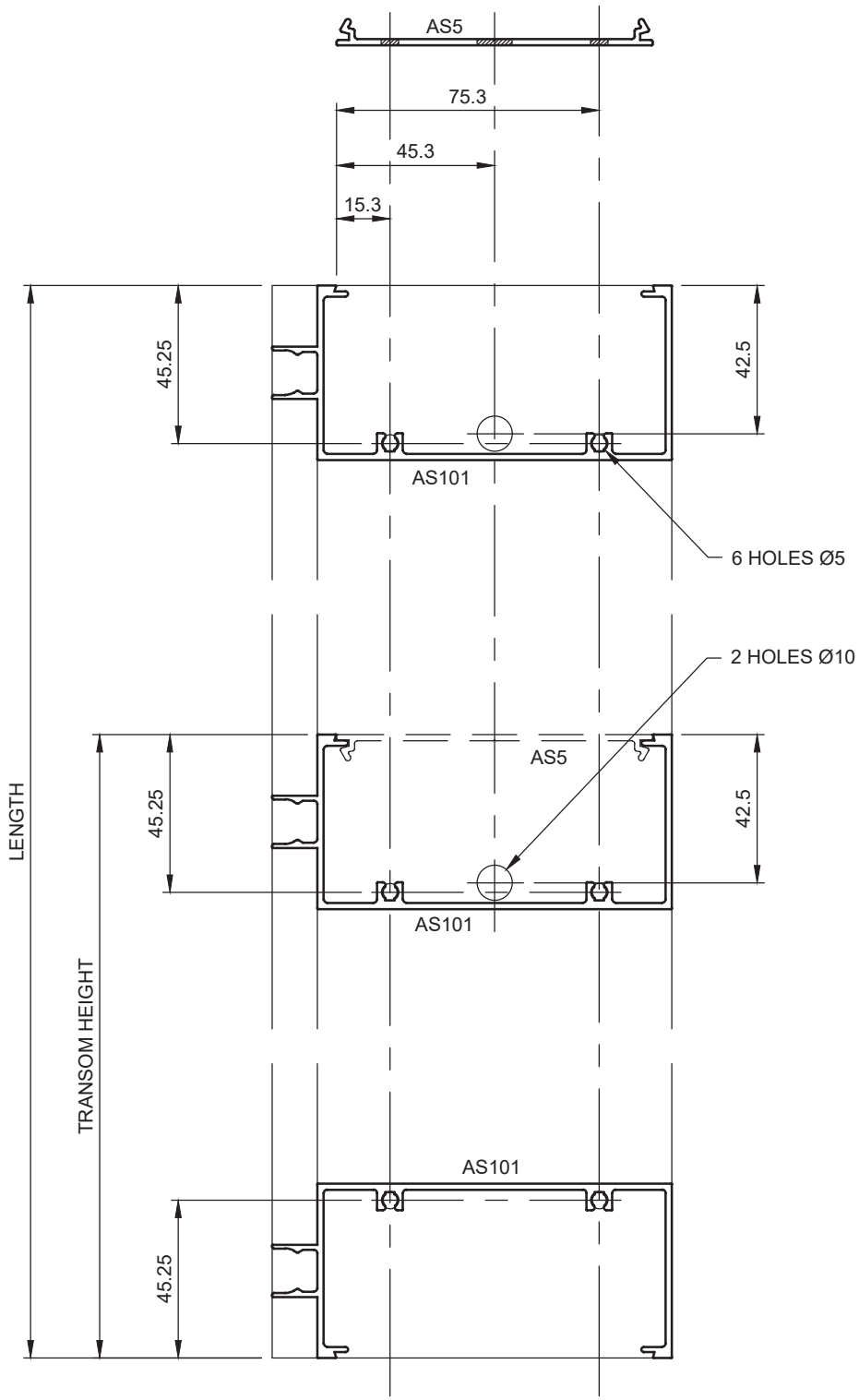


10. Manufacturing Details

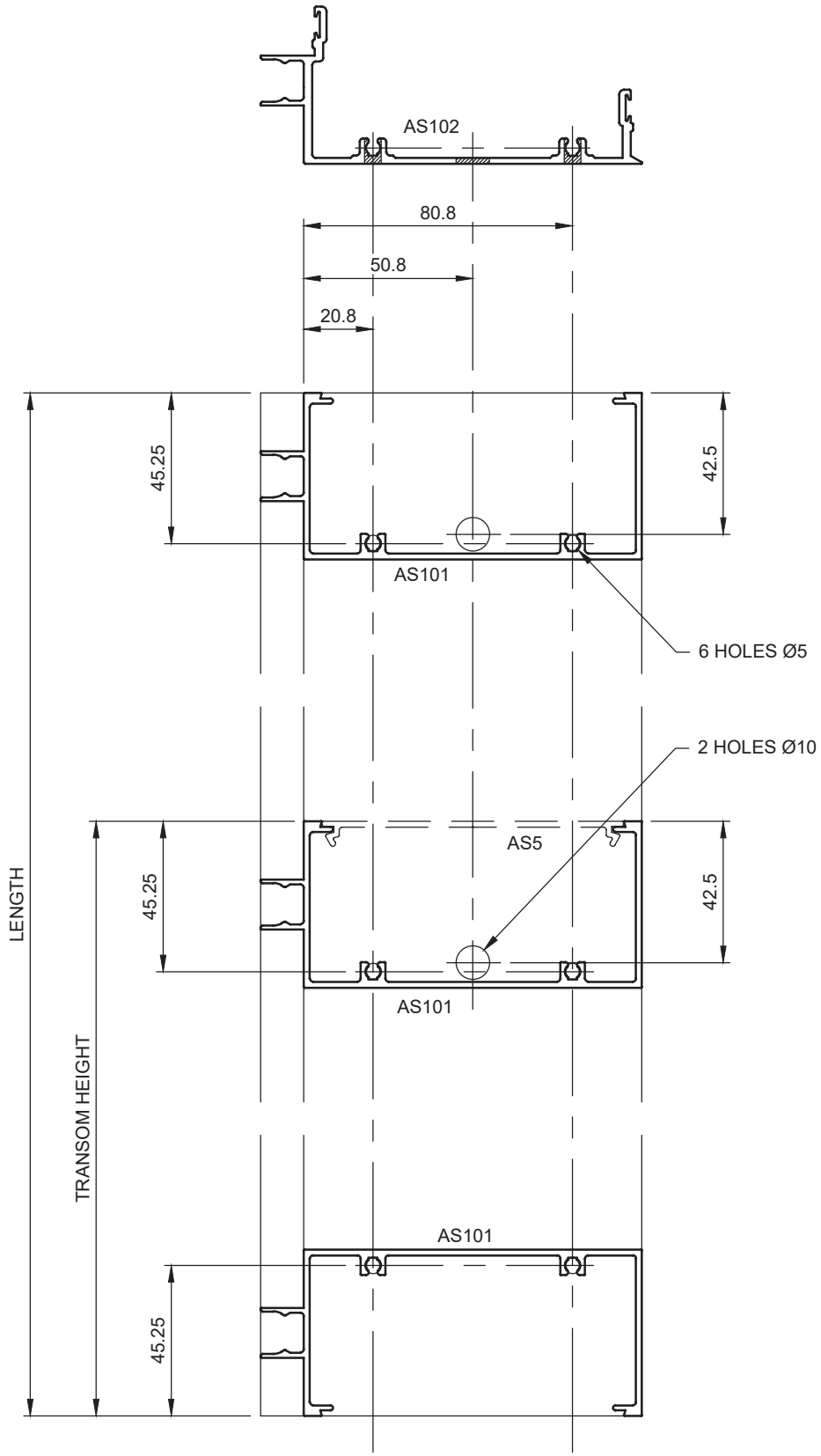
SG Frame



Flush Adaptor

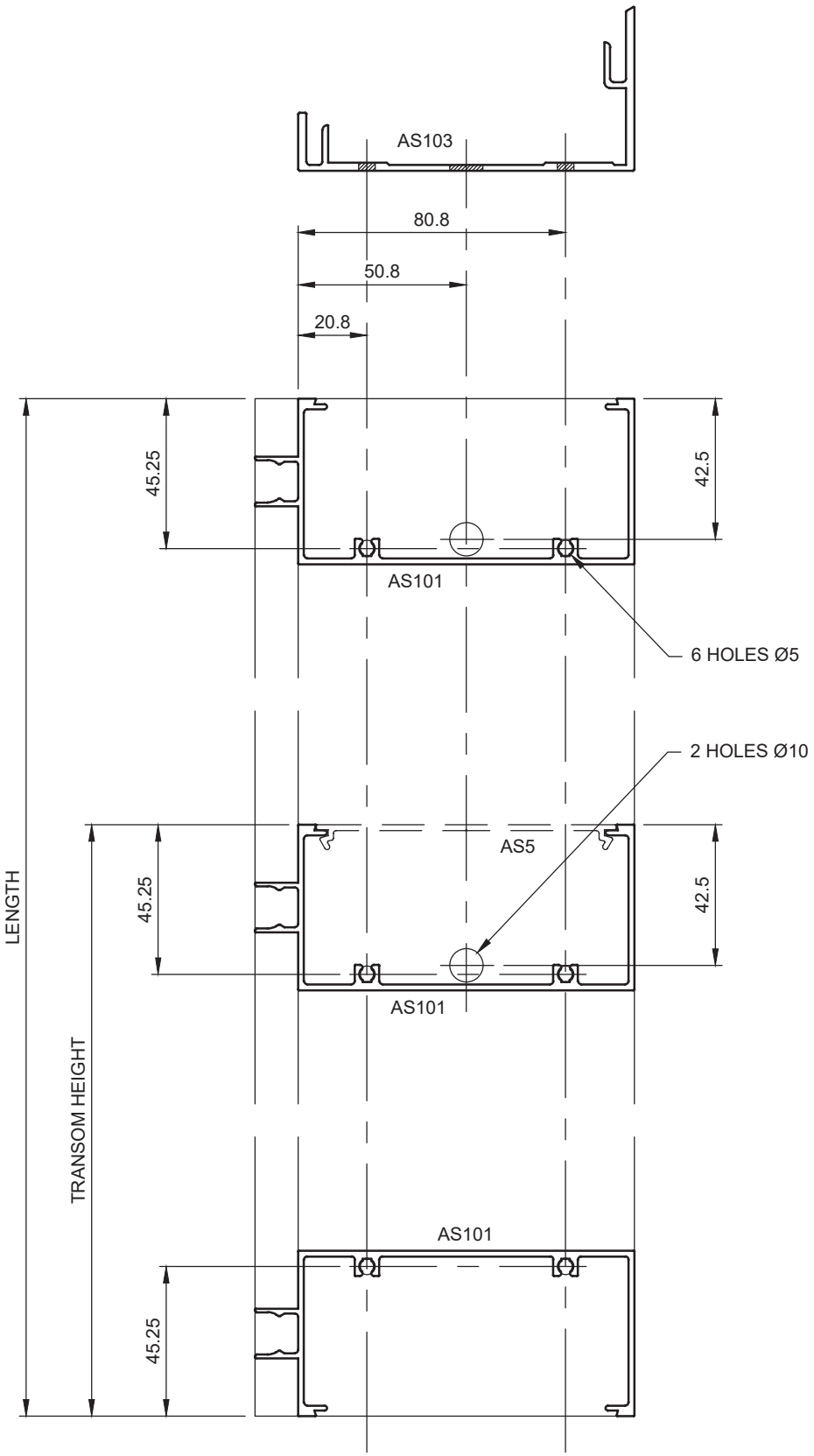


Split Mullion (Male)

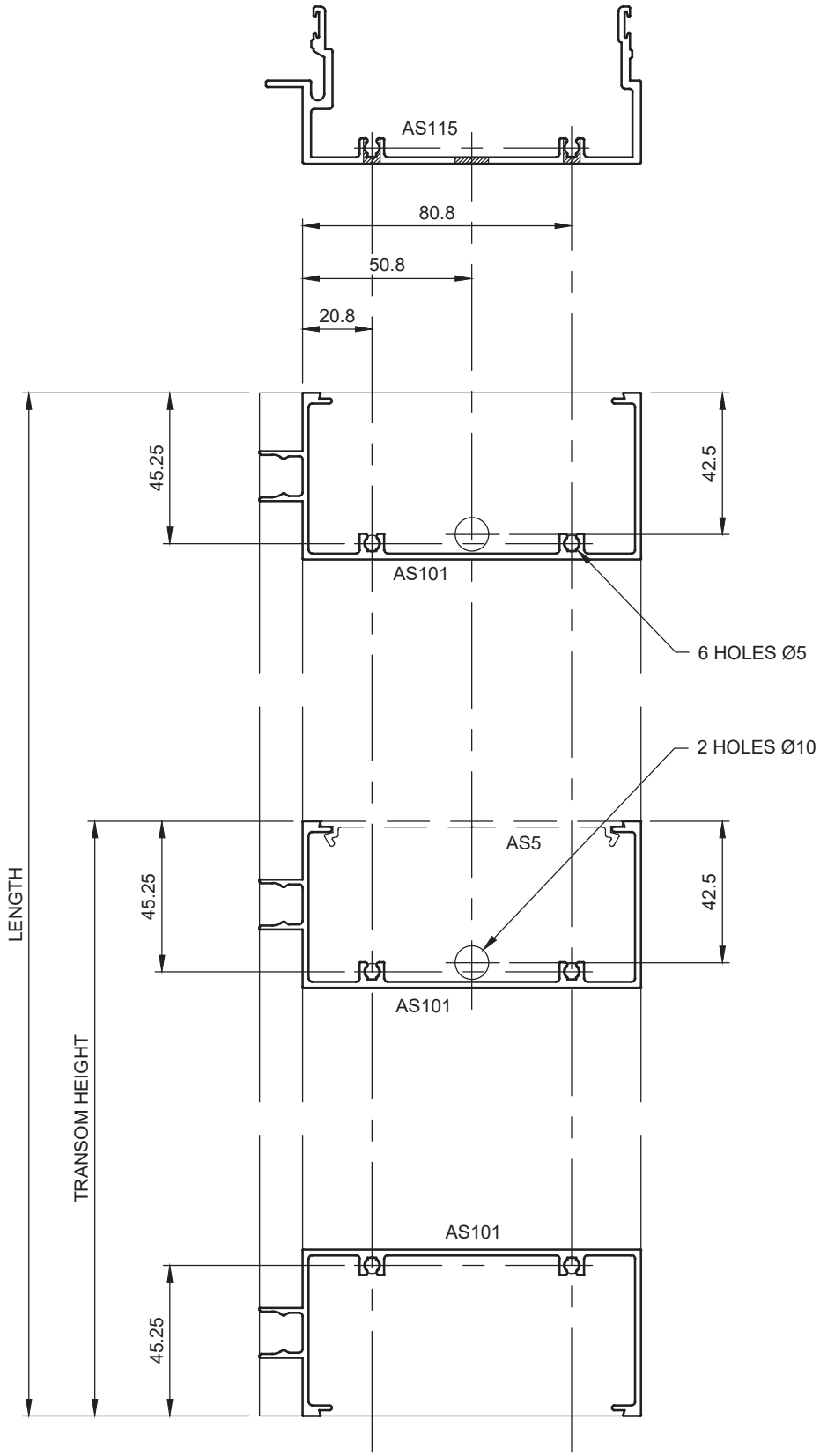


Hastings
Front Glazed Framing

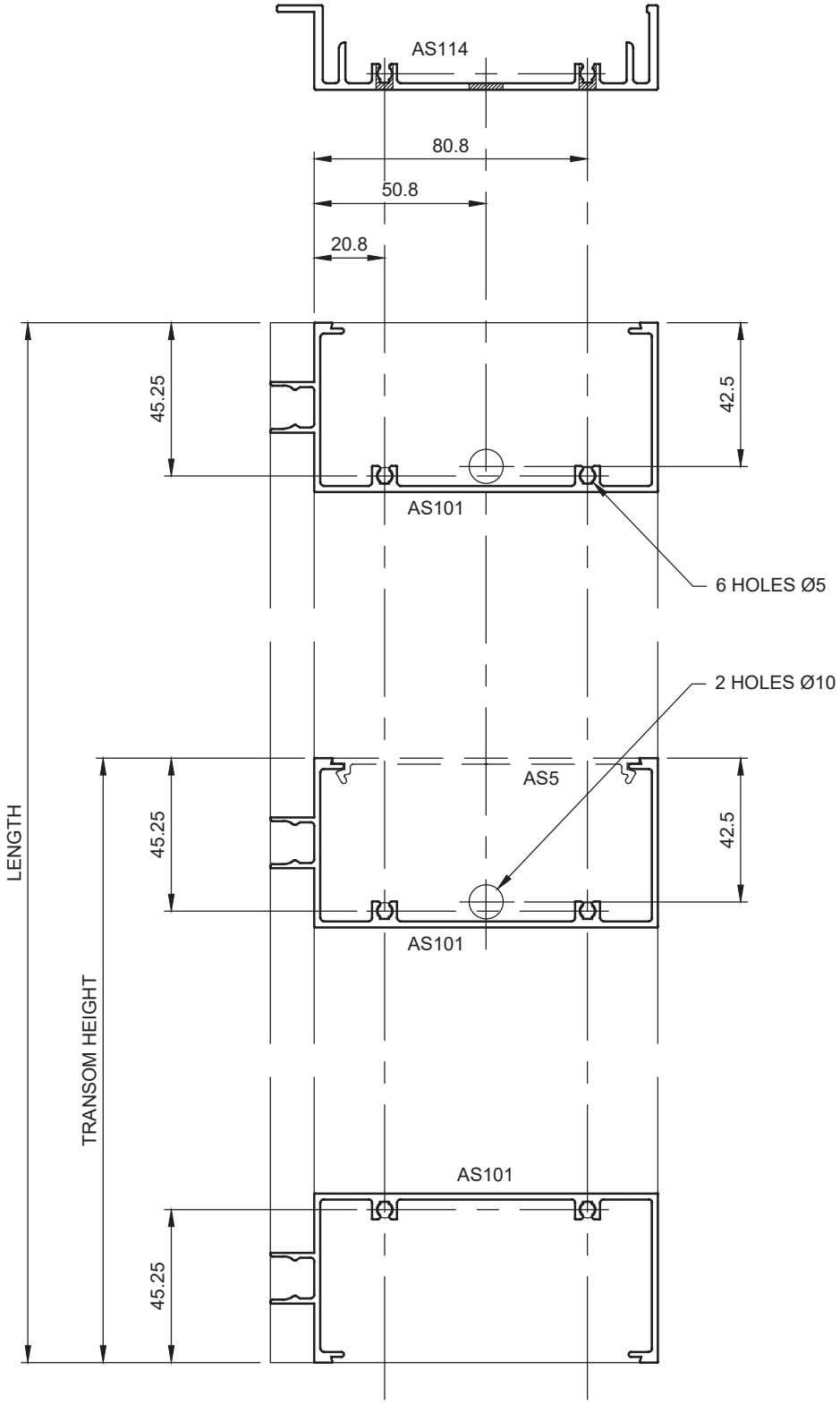
Split Mullion (Female)



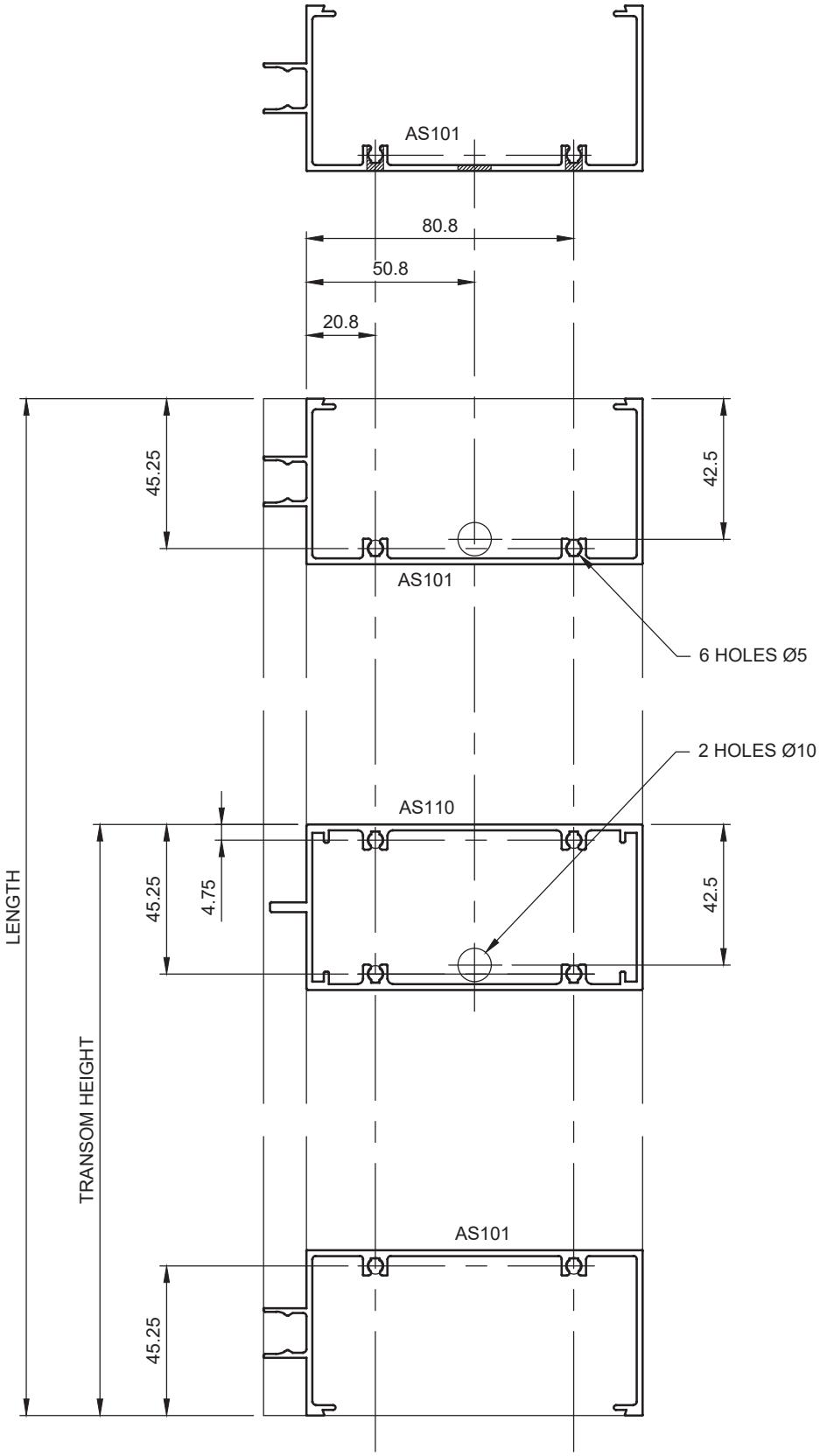
Structural Split Mullion (Male)



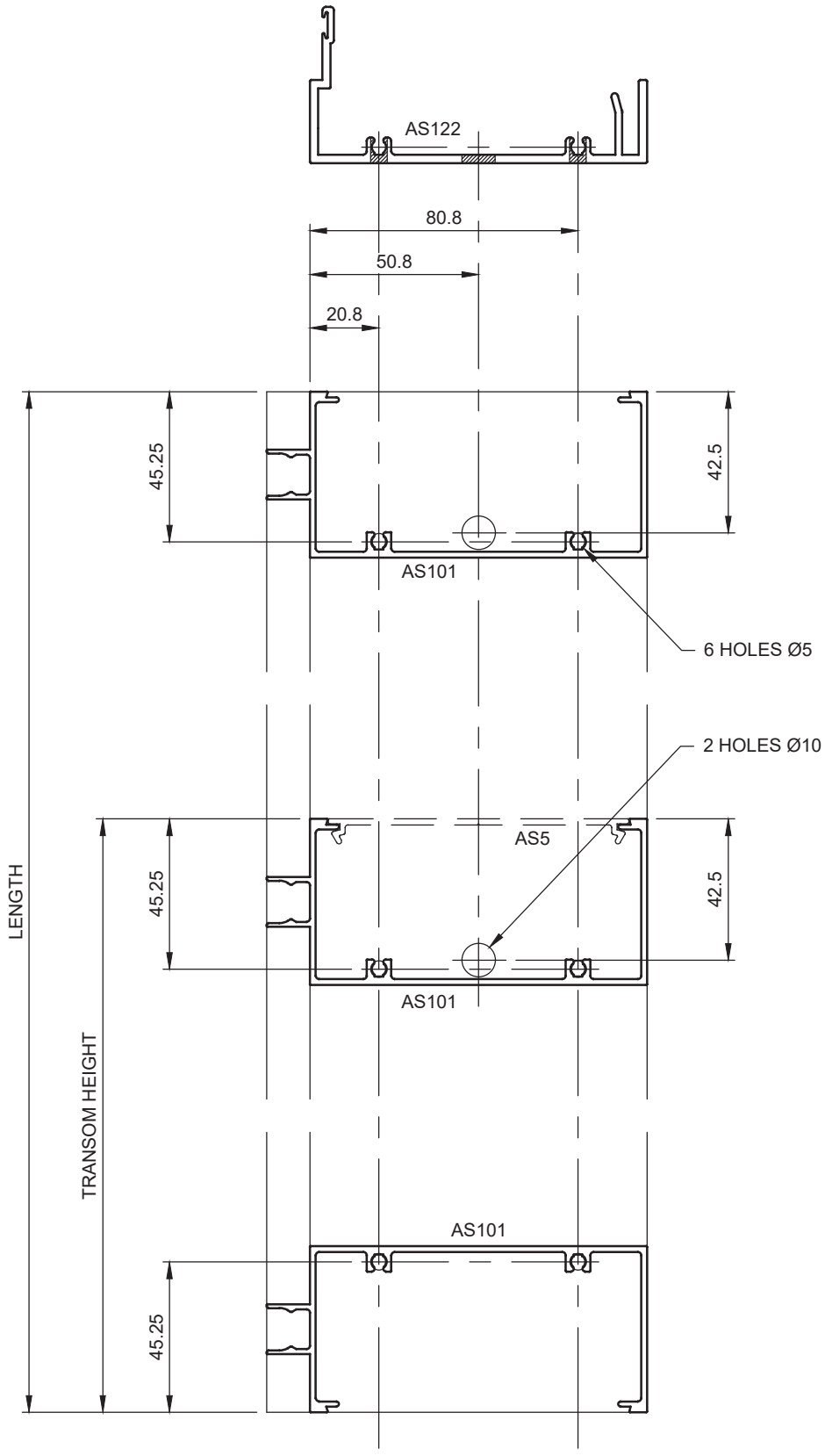
Structural Split Mullion (Female)



Alternate Frame

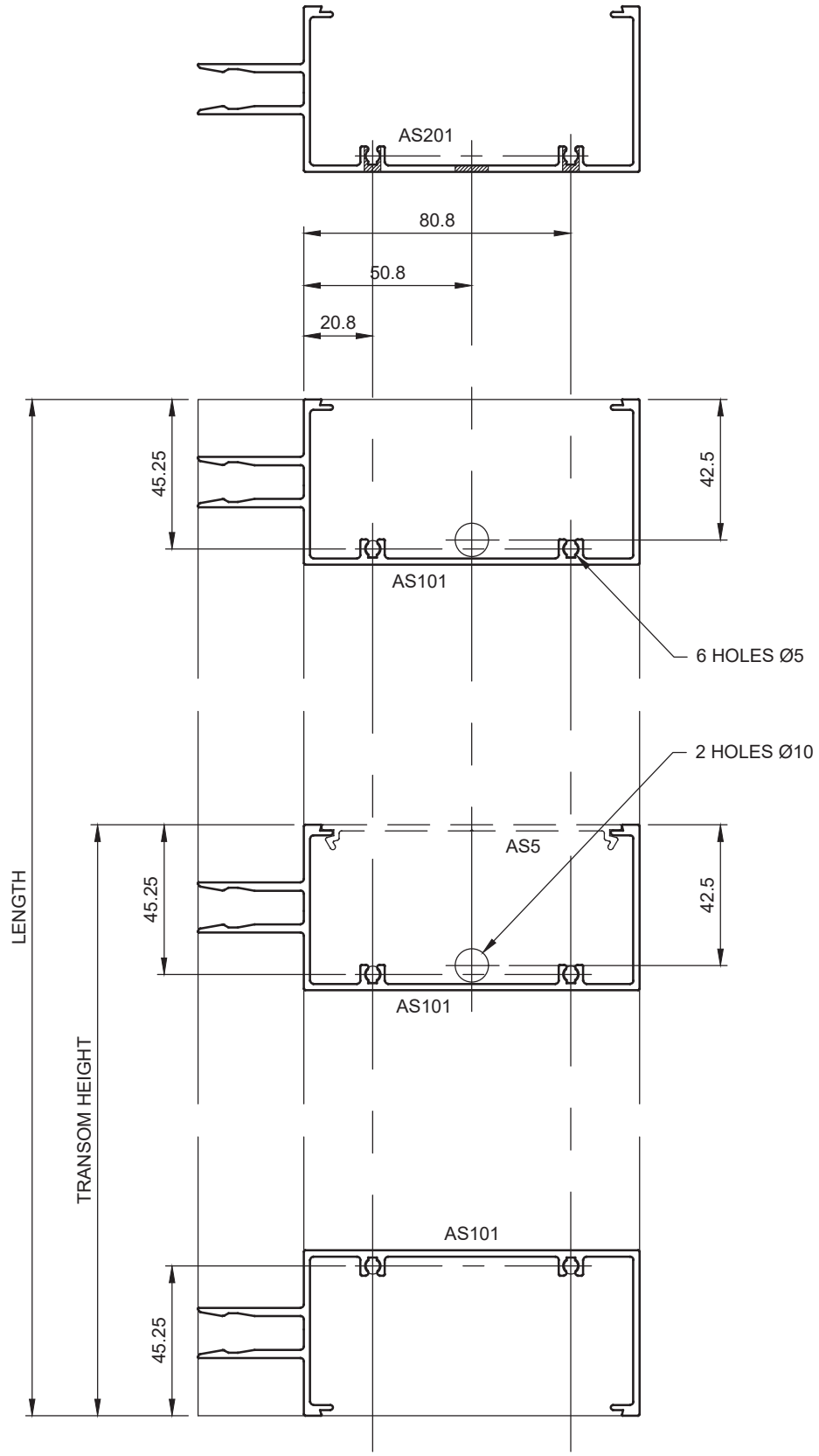


Blind Mullion

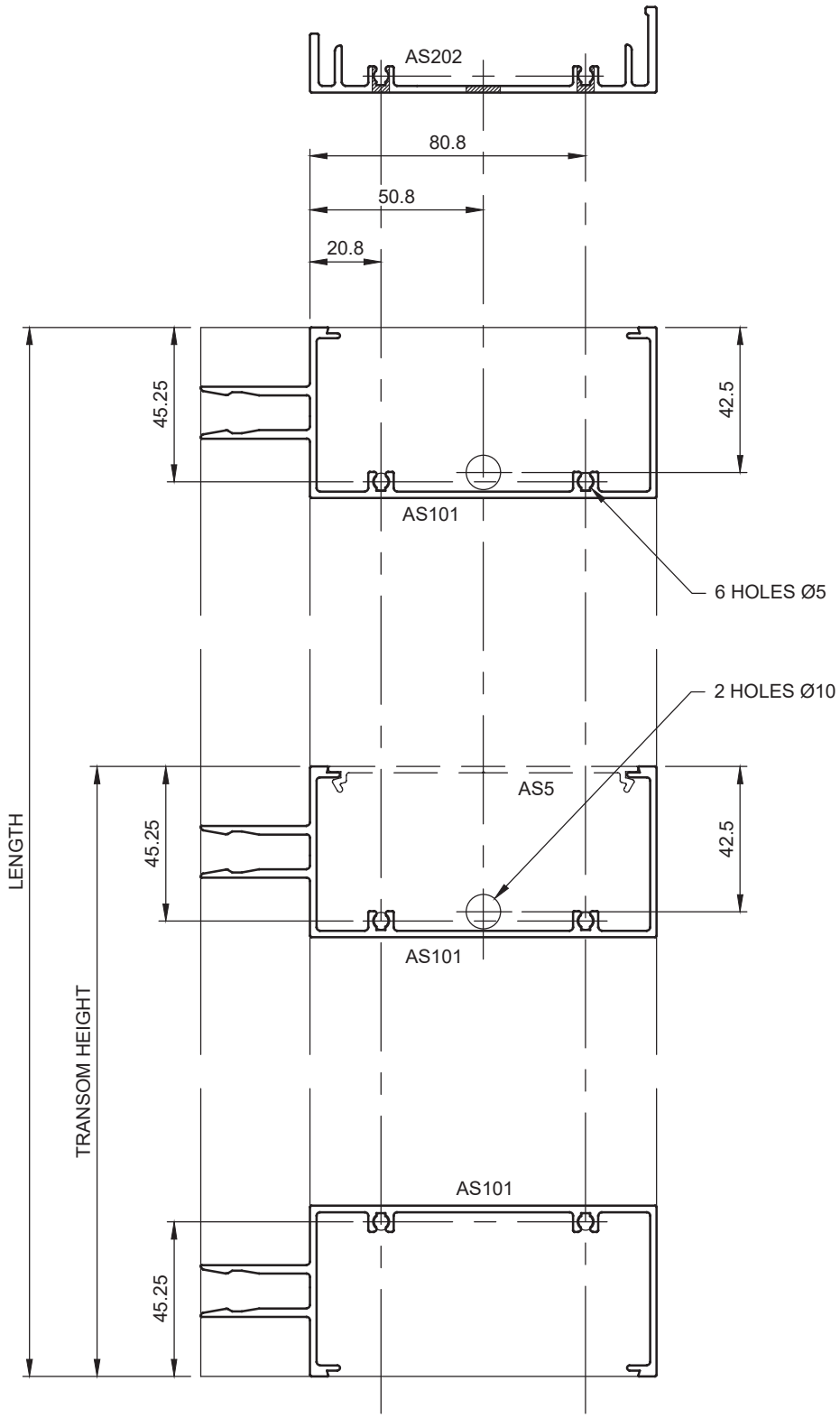


10. Manufacturing Details

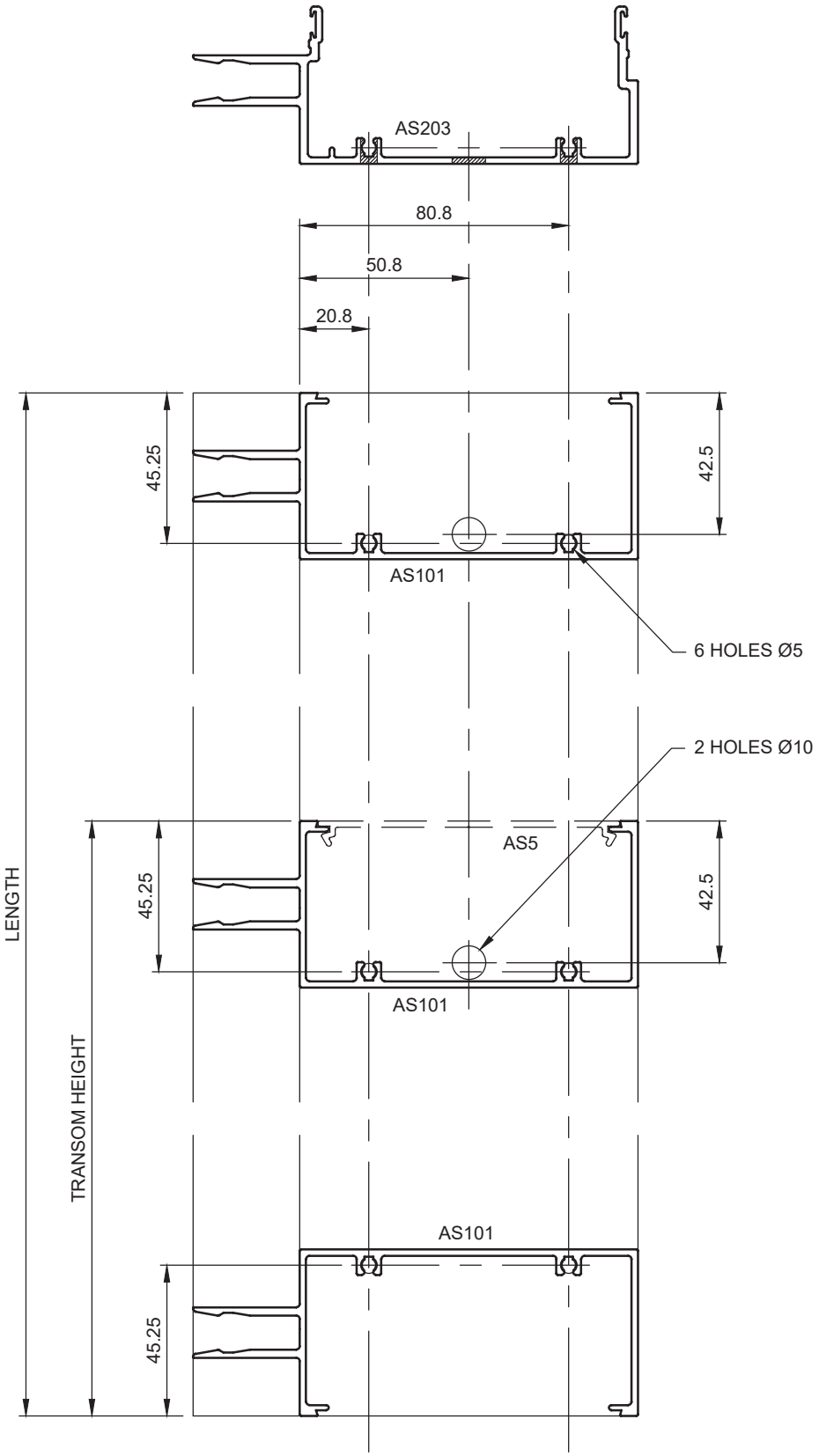
DG Frame



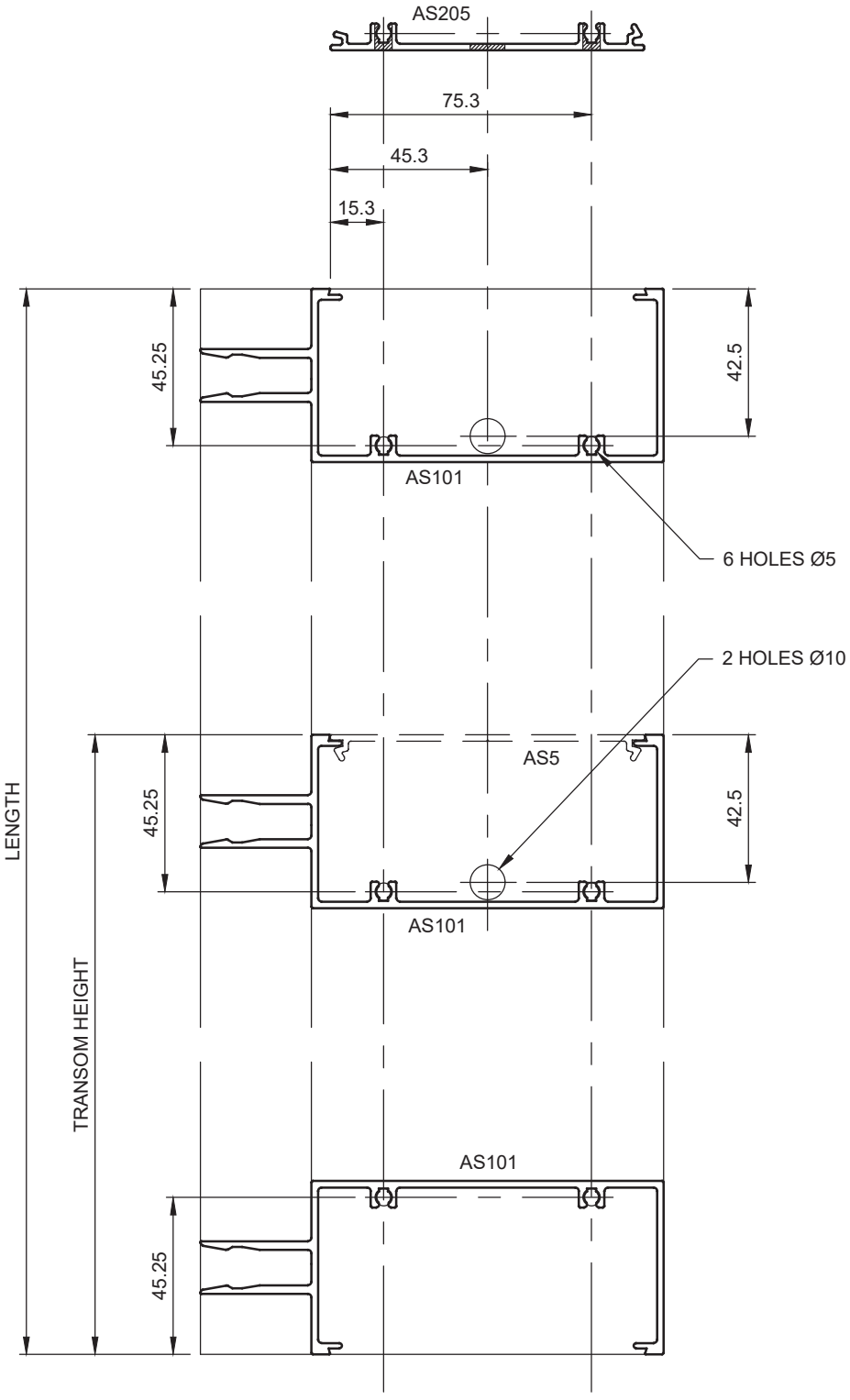
DG Split Mullion (Female)



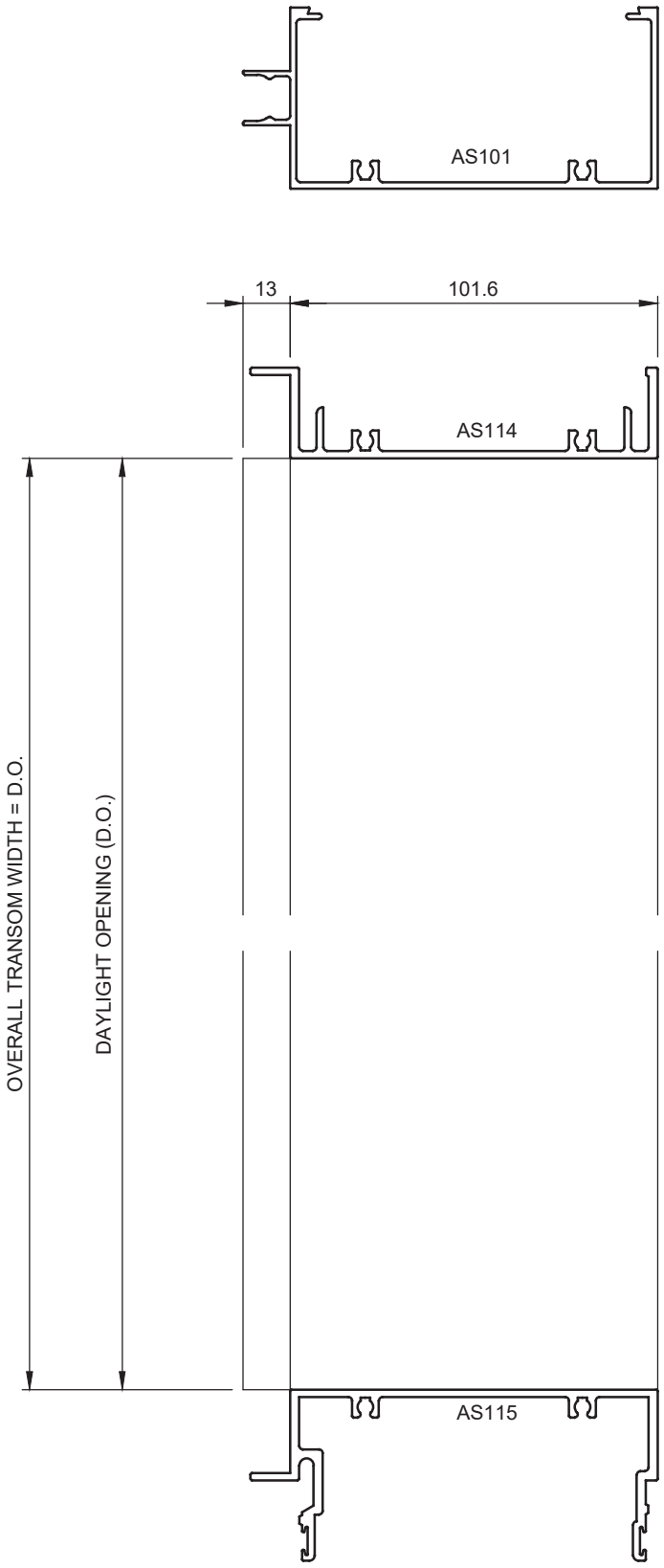
DG Split Mullion (Male)



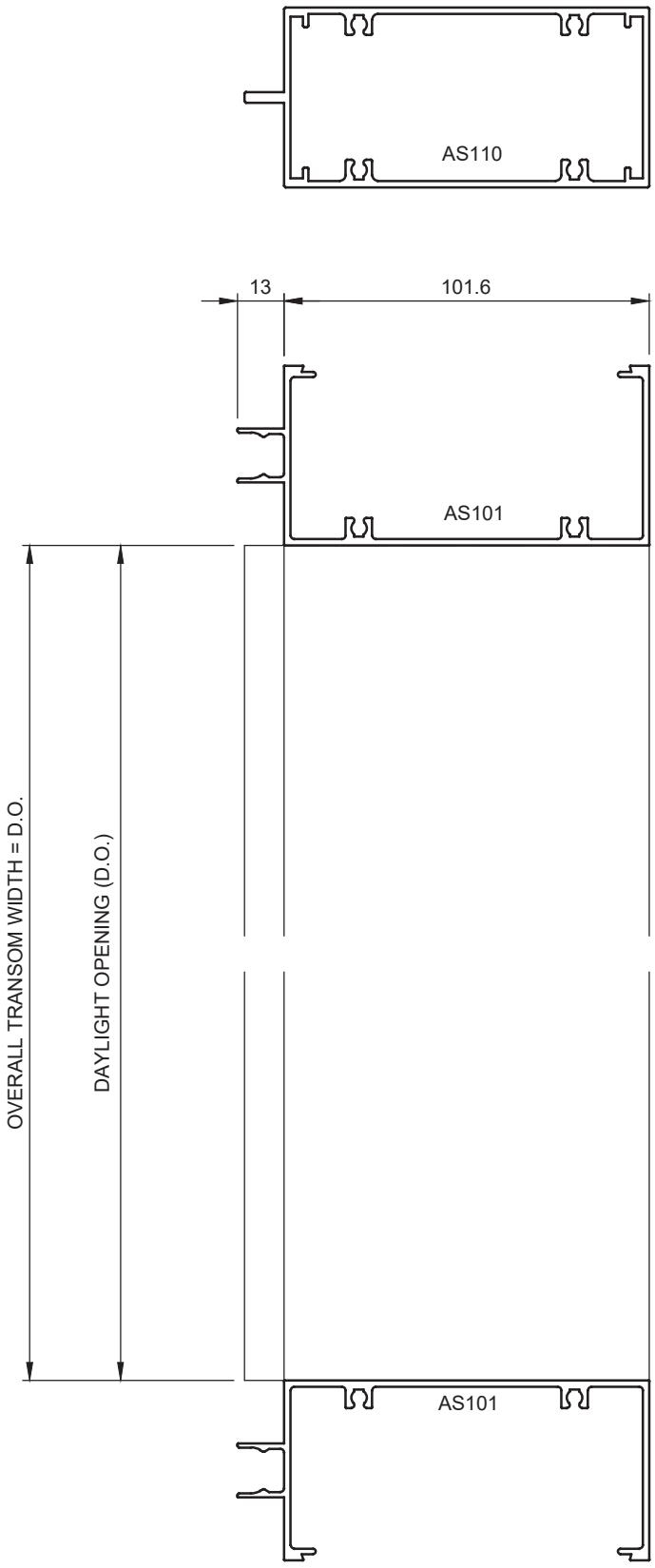
DG Flat Infill



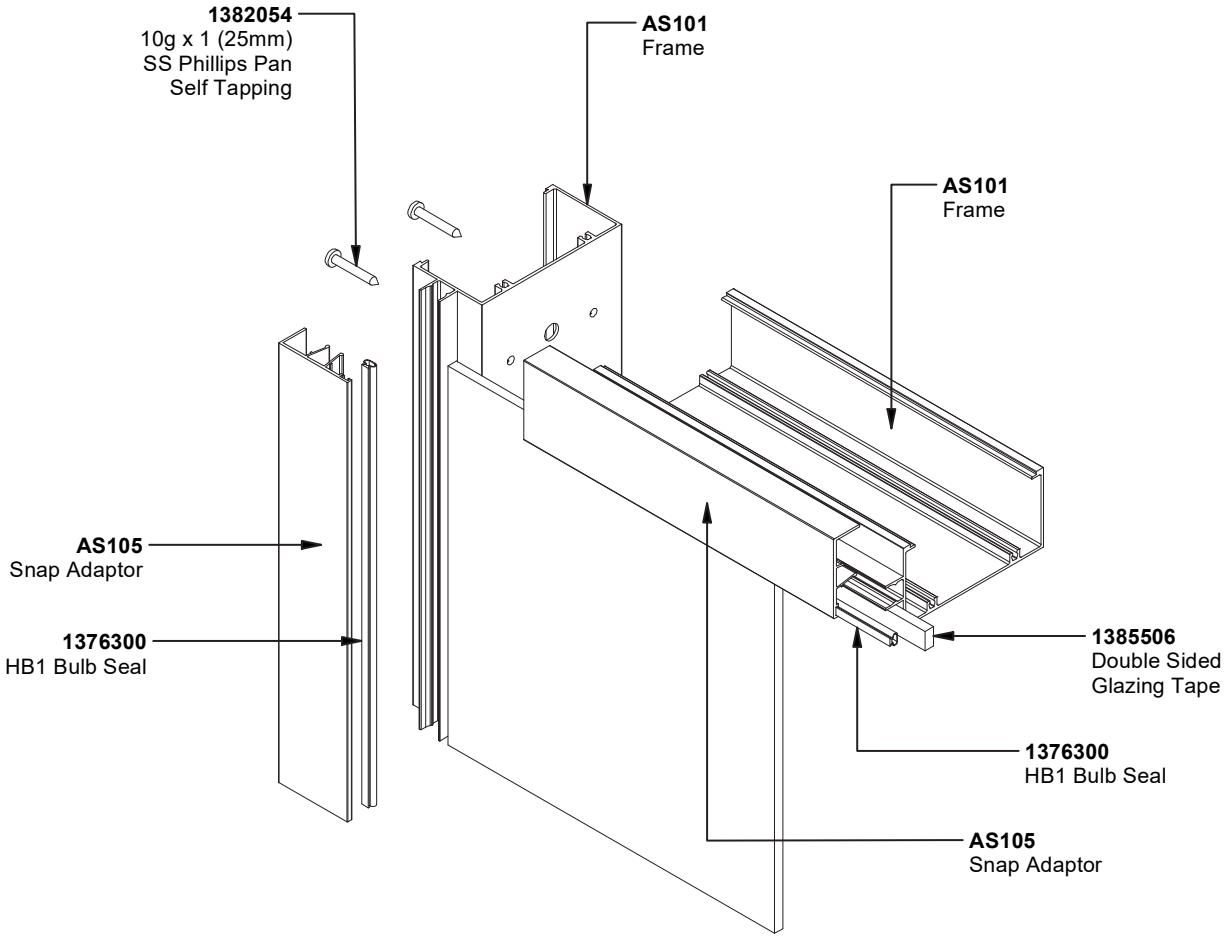
Transom


AS101
13
101.6
AS114
OVERALL TRANSOM WIDTH = D.O.
DAYLIGHT OPENING (D.O.)
AS115

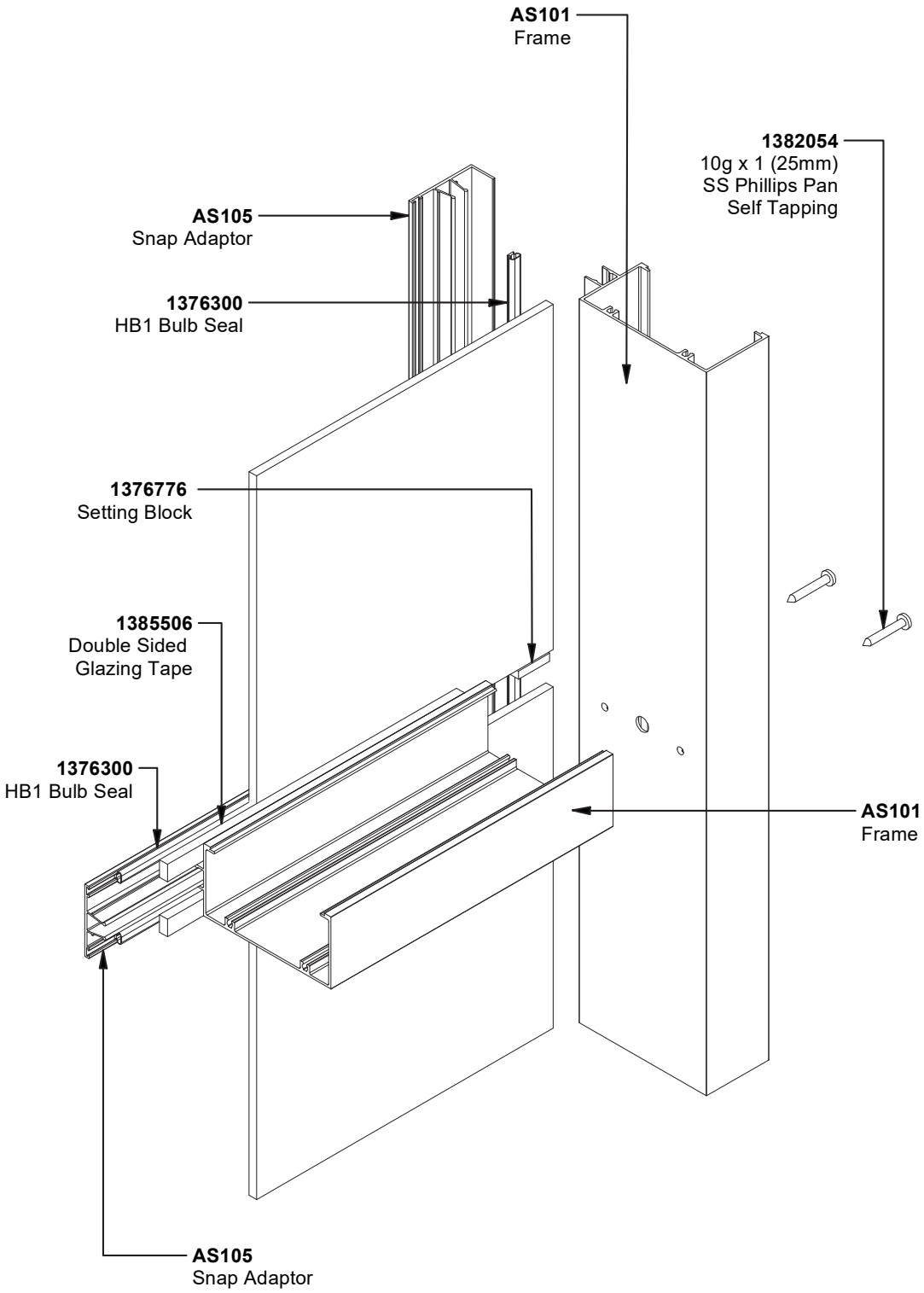
Structurally Glazed Transom



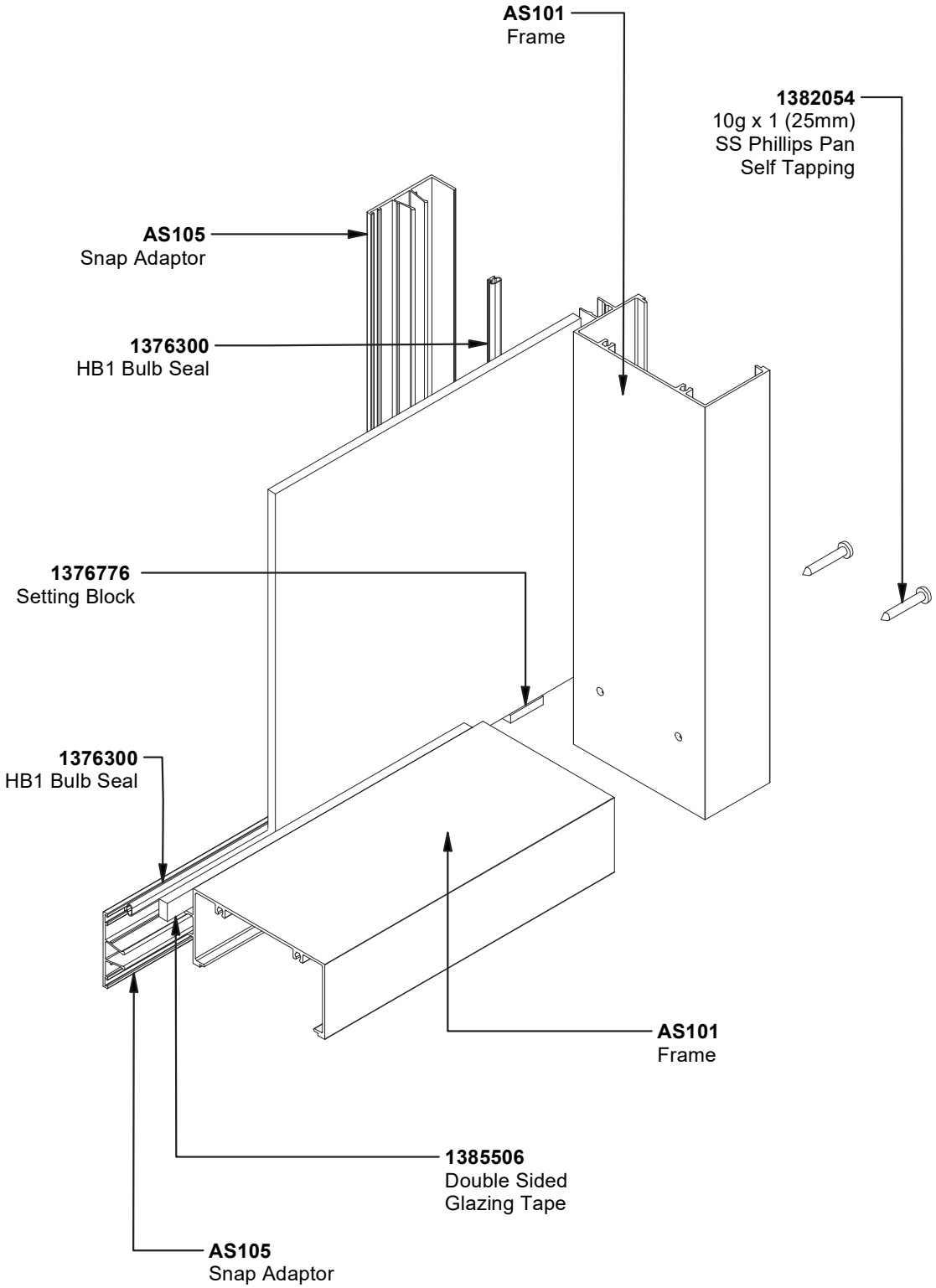
Jamb and Head Assembly Details



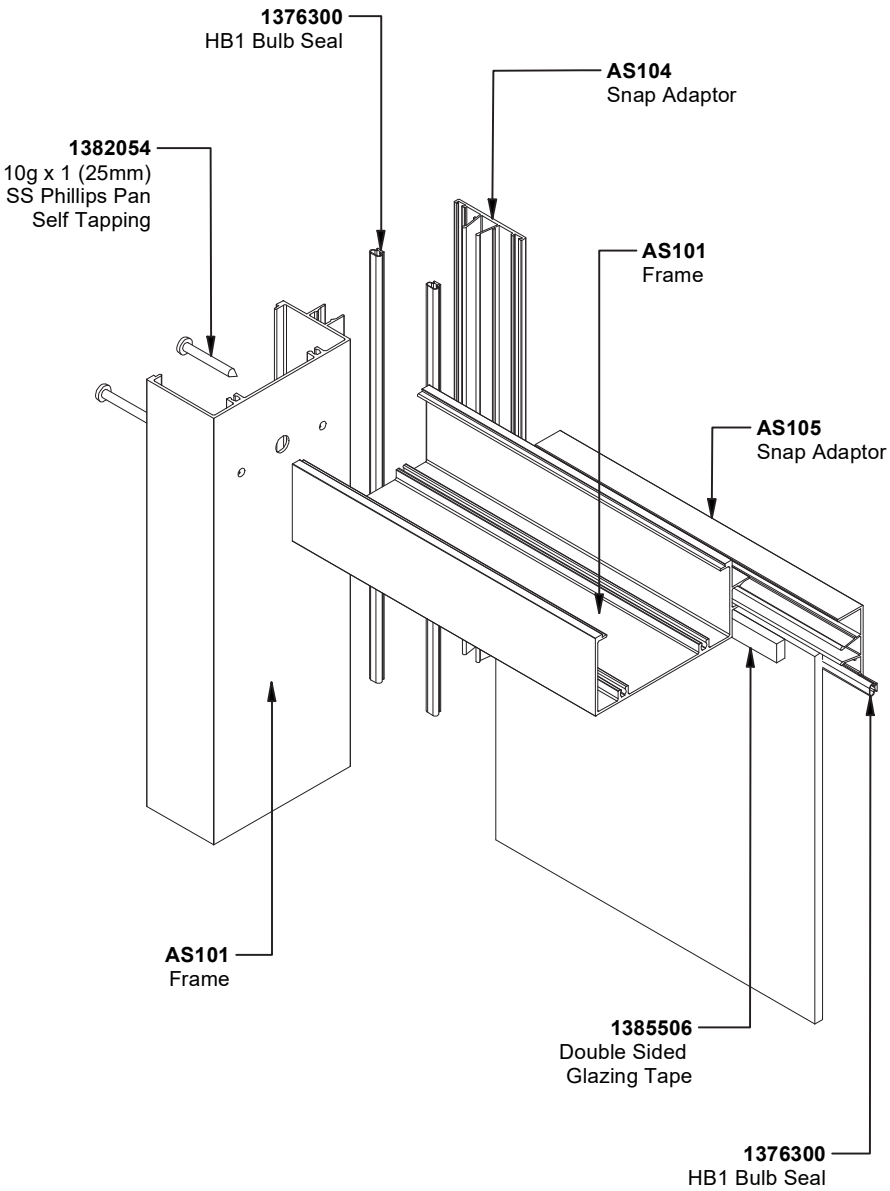
Jamb and Transom Assembly Details



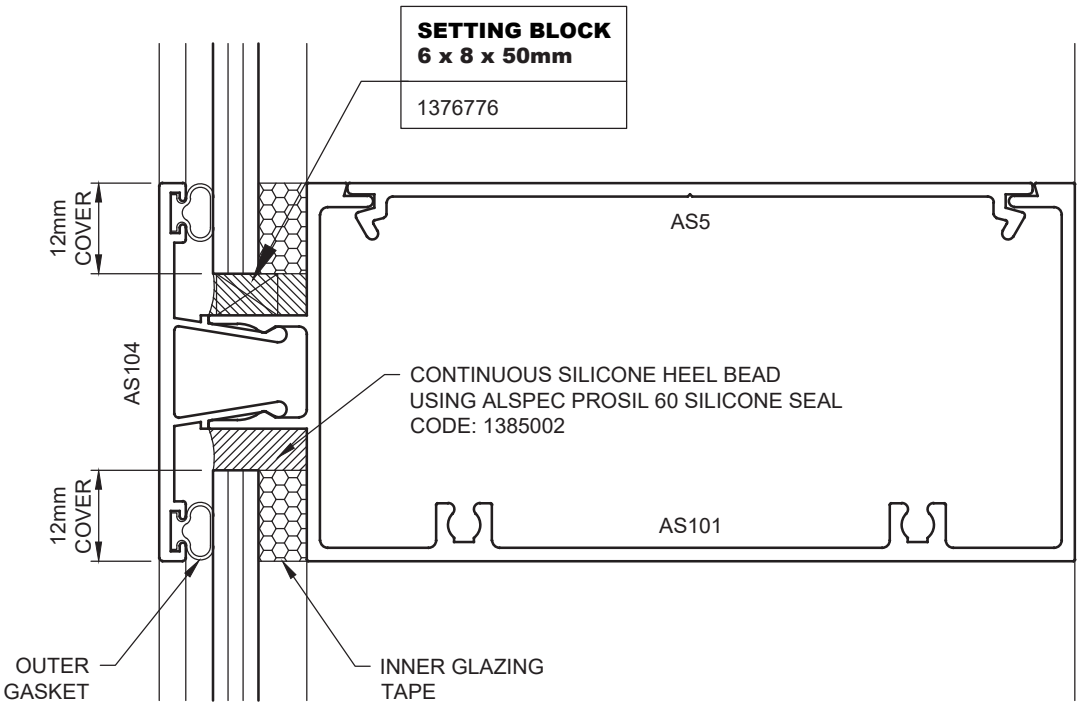
Jamb and Sill Assembly Details



Head and Mullion Assembly Details

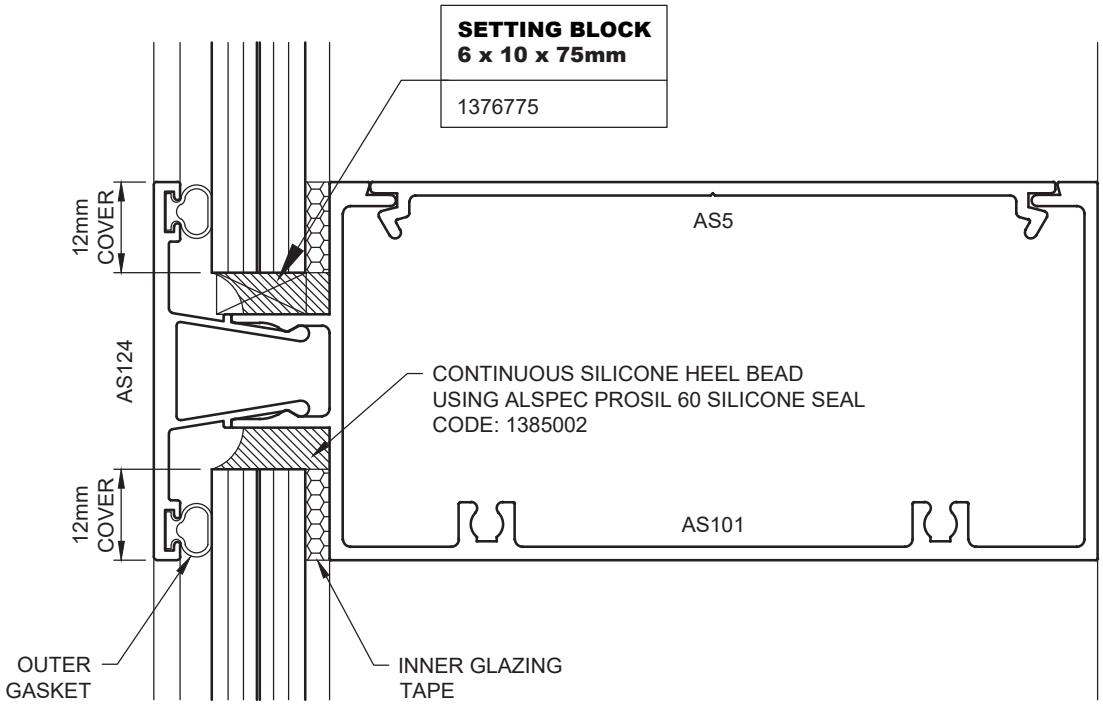


Standard Glazing Details - with AS104 Snap Adaptor



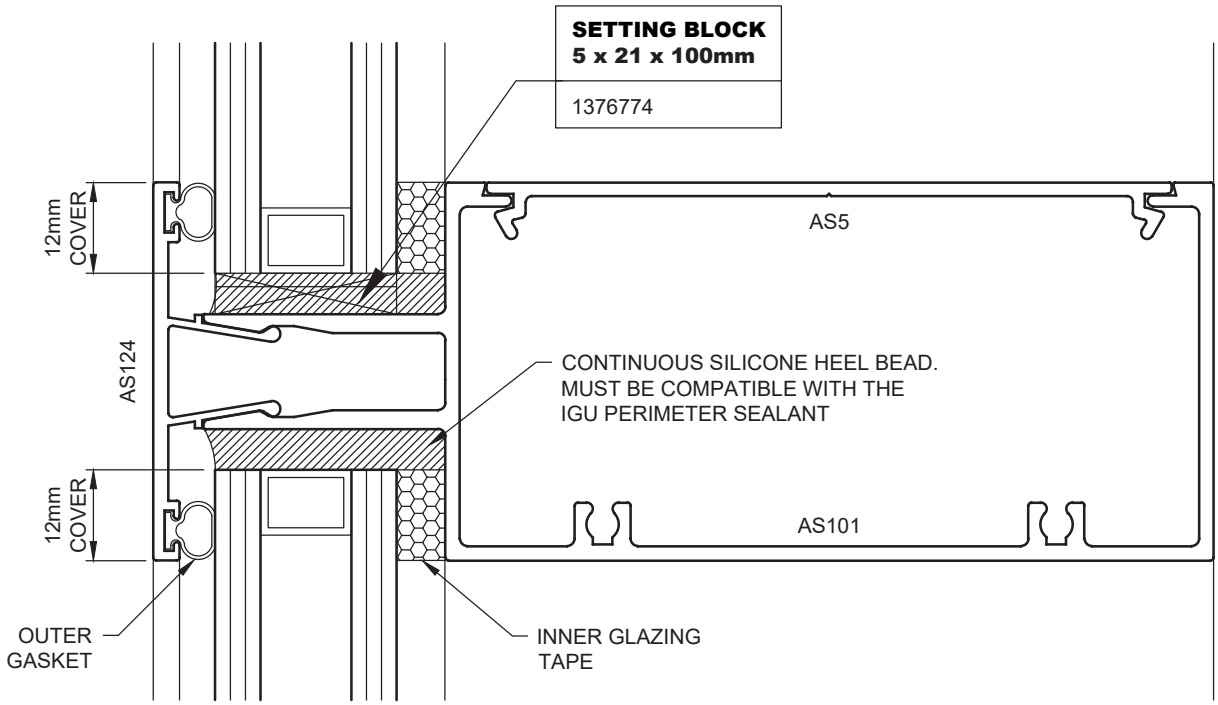
	OUTER GASKET		INNER GLAZING TAPE	
GLASS THICKNESS	REF.	CODE	REF.	CODE
6/6.38mm	HB1	1376300	12 x 6.4mm DOUBLE SIDED	1385506
8/8.38mm	HB1	1376300	12 x 4.8mm DOUBLE SIDED	1385577
10/10.38mm	HB1	1376300	12 x 3.2mm DOUBLE SIDED	1385549

Standard Glazing Details - with AS124 Snap Adaptor



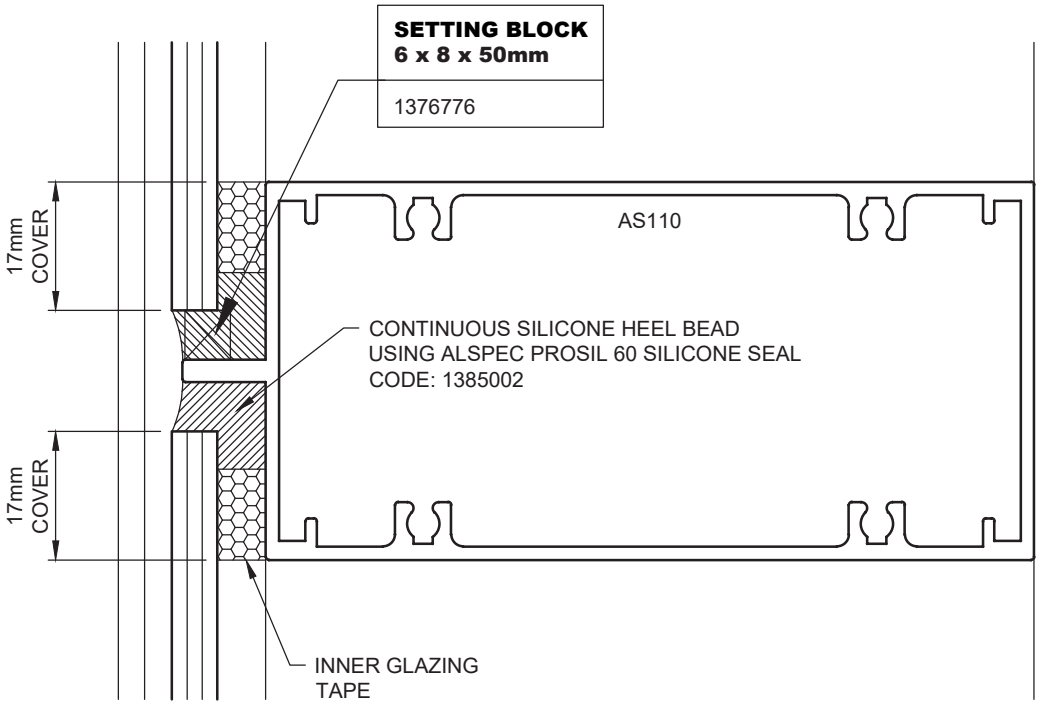
	OUTER GASKET		INNER GLAZING TAPE	
GLASS THICKNESS	REF.	CODE	REF.	CODE
12/12.38mm	HB1	1376300	12 x 3.2mm DOUBLE SIDED	1385549
13.52mm	HB1	1376300	12 x 3.2mm DOUBLE SIDED	1385549

Silicone Glazing Details



	OUTER GASKET		INNER GLAZING TAPE	
GLASS THICKNESS	REF.	CODE	REF.	CODE
24mm	HB1	1376300	12 x 6.4mm DOUBLE SIDED	1385506
26mm	HB1	1376300	12 x 4.8mm DOUBLE SIDED	1385577
28mm	HB1	1376300	12 x 3.2mm DOUBLE SIDED	1385549

Structural Glazing Details



	INNER GLAZING TAPE	
GLASS THICKNESS	REF.	CODE
6mm	12 x 3.2mm DOUBLE SIDED	1385549
6mm	12 x 4.8mm DOUBLE SIDED	1385577
6mm	12 x 6.4mm DOUBLE SIDED	1385506

NOTE: THIS SYSTEM IS NOT DESIGNED TO BE USED IN A FOUR SIDED STRUCTURAL GLAZING APPLICATION. SNAP ADAPTORS AND OUTER GASKETS MUST BE USED FOR TWO SIDE GLASS SUPPORT MIN.

FRAMING

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

The **Hastings 101.6mm Front Glazed Framing** 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 **Hastings 101.6mm Front Glazed Framing** 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 **Hastings 101.6mm Front Glazed Framing** 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.

EVERYTHING ALUMINIUM & HARDWARE

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