



Air-Flo Plus

125mm Louvre



Air-Flo Plus 125mm Louvre

Technical Manual
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alspec[®]
EVERYTHING ALUMINIUM
& HARDWARE

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

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2. Technical Specifications

ALUMINIUM

Aluminium frames should be manufactured using Alspec's **AIR-FLO PLUS 125mm LOUVRE** system with Breezway's Altair® Louvre Galleries and Alspec Aero Gallery.

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

The maximum frame height shall be 3075mm.

The maximum single louvre frame width shall be:

- 964mm (152mm Gallery)
- 814mm (102mm Gallery)
- 1191mm (Stronghold System)

GLAZING

- 6mm Glass thickness only to be used with Breezway Altair® or Alspec Aero Galleries.
- Maximum Glass Blade lengths are
 - 102mm Blade is 750mm (With or without Stronghold Blades)
 - 152mm Blade is 900mm
 - 152mm Breezway Stronghold Blades is 1127mm (glass must be toughened)
- Aluminium Blades as nominated in Technical Manual.
- Minimum glass thickness for single glazed fixed lite frame is 4mm thick.
- Maximum glass thickness for single glazed fixed lite frame is 10.38mm thick.
- Glazing wedges shall be Alspec's wedges for **AIR-FLO PLUS 125mm LOUVRE** to suit standard and captive glazing options, refer glazing pages 12.1-12.2. For window systems requiring a co-extruded captive gasket on the external side of the glazed pocket, Santoprene is the recommended material to be applied.

HARDWARE

Hardware to be as per Alspec Technical Manual.

FINISHED

- 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 requirements of AS2047 (windows in buildings), AS1170 (loading code). All glass, glazing rubbers, seals and gaskets shall be applied in accordance with the requirements of AS1288 (Glass in Buildings – Selection and Installation) or AS4666 (Insulated Glass Units).

Fabricators of the AIR-FLO PLUS 125mm LOUVRE system should seek confirmation of design wind pressure and deflection criteria from the building designer.

3. Loading Tables

Loading Table Guide

The following pages contain wind pressure tables that may be used as a guide to the suitability of Alspec Aluminium Systems framing for various wind loads and frame sizes.

In most situations the Design Wind Pressure for a particular building should be available from the building designer or engineer.

Framing must be checked for suitability.

For a window/door, 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)					
		S	1040	840	720	630	570
	2850	U	2410	1960	1660	1460	1310
		S	1230	1000	850	750	680
	2700	U	2700	2190	1870	1640	1480
		S	1460	1200	1020	910	830
	2550	U	3040	2470	2210	1860	1690
		S	1770	1450	1250	1080	1010
	2400	U	3440	2810	2410	2030	1940
		S	2160	1780	1530	1370	1270
	2250	U	3940	3230	2780	2470	2270
		S	2670	2210	1920	1730	1610
	2100	U	4550	3750	3240	2900	2680
lxx = xxx x xxx mm4	Panel Width		800	1000	1200	1400	1600

STEP 1 → **2400** (Panel Height)

STEP 2 → **1000** (Panel Width)

STEP 3 → **2810** (Maximum Design Pressure for Suction on Upwind side)

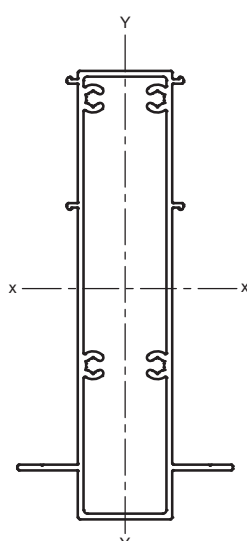
3. Loading Tables

AF219 Screened Mullion

Max Stress = 110Mpa

S = Serviceability limit state I/250

U = Ultimate limit state

AF219 SCREENED MULLION		Height	Maximum Design Pressure (Pa)						
	3000	S	1210	1040	910	820	740	680	630
		U	2530	2180	1920	1710	1550	1420	1320
	2800	S	1490	1280	1130	1010	920	850	780
		U	2910	2510	2210	1980	1790	1650	1520
	2600	S	1870	1610	1420	1280	1160	1070	990
		U	3390	2920	2570	2310	2100	1930	1790
	2400	S	2380	2060	1820	1640	1490	1380	1280
		U	3990	3440	3040	2730	2480	2290	2130
	2200	S	3000	2690	2390	2150	1970	1820	1700
		U	4770	4120	3650	3280	2990	2760	2580
	2000	S	3000	3000	3000	2910	2670	2480	2330
		U	5800	5030	4450	4020	3680	3410	3190
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	5570	5050	4640	4320	4070
	1600	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	5690	5410
	1400	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1200	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
Ixx = 904 x 10 ³ mm ⁴		Width	600	700	800	900	1000	1100	1200

Tables are based on theoretical section properties

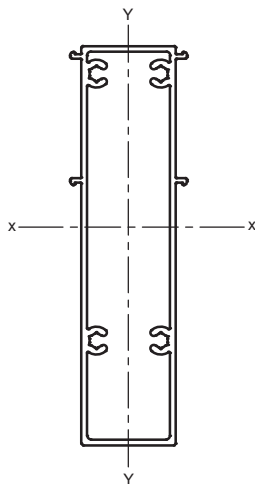
3. Loading Tables

AF218 Mullion

Max Stress = 110Mpa

S = Serviceability limit state l/250

U = Ultimate limit state

AF218 MULLION	Height	Maximum Design Pressure (Pa)							
	3000	S	810	700	610	550	500	460	420
		U	1800	1550	1370	1220	1110	1010	940
	2800	S	1000	860	760	680	620	570	530
		U	2070	1790	1570	1410	1280	1170	1090
	2600	S	1250	1080	950	860	780	720	670
		U	2410	2080	1830	1640	1490	1370	1270
	2400	S	1600	1380	1220	1100	1000	920	860
		U	2840	2450	2170	1940	1770	1630	1520
	2200	S	2090	1810	1600	1440	1320	1220	1140
		U	3400	2940	2600	2340	2130	1970	1840
	2000	S	2800	2430	2160	1950	1790	1670	1560
		U	4130	3580	3180	2860	2620	2430	2280
	1800	S	3000	3000	3000	2730	2520	2360	2230
		U	5140	4470	3970	3600	3310	3080	2900
	1600	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	5740	5130	4670	4320	4060	3850
1400	S	3000	3000	3000	3000	3000	3000	3000	
	U	6000	6000	6000	6000	5920	5620	5420	
1200	S	3000	3000	3000	3000	3000	3000	3000	
	U	6000	6000	6000	6000	6000	6000	6000	
$I_{xx} = 608 \times 10^3 \text{ mm}^4$	Width	600	700	800	900	1000	1100	1200	

Tables are based on theoretical section properties

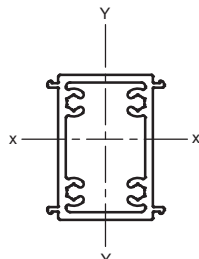
3. Loading Tables

AF220 38mm Mullion

Max Stress = 110Mpa

S = Serviceability limit state I/250

U = Ultimate limit state

AF220 38MM MULLION	Height	Maximum Design Pressure (Pa)							
	1500	S	690	600	540	500	460	440	420
		U	2200	1930	1730	1580	1470	1380	1320
	1400	S	850	750	680	630	590	560	540
		U	2550	2240	2010	1850	1730	1640	1580
	1300	S	1080	960	870	810	760	730	720
		U	2990	2640	2380	2200	2070	1990	1940
	1200	S	1400	1240	1140	1070	1020	990	980
		U	3560	3150	2870	2670	2540	2470	2440
	1100	S	1850	1660	1530	1450	1410	1390	1340
		U	4310	3850	3530	3330	3210	3170	3120
	1000	S	2530	2300	2150	2070	2040	2010	2000
		U	5340	4810	4480	4290	4230	4200	4120
	900	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	5910	5800	5710	5600	5500
	800	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	700	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	600	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
$I_{xx} = 61 \times 10^3 \text{ mm}^4$	Width		600	700	800	900	1000	1100	1200

Tables are based on theoretical section properties

3. Loading Tables

AF211/AF210 Jamb & Adaptor

Max Stress = 110Mpa

S = Serviceability limit state l/250

U = Ultimate limit state

AF211 & AF210 JAMB ADAPTOR	Height	Maximum Design Pressure (Pa)							
	3000	S	1670	1440	1270	1140	1030	950	880
		U	3090	2660	2340	2090	1900	1740	1610
	2800	S	2060	1780	1570	1410	1280	1170	1090
		U	3560	3060	2700	2420	2190	2010	1860
	2600	S	2590	2230	1970	1770	1610	1480	1380
		U	4140	3570	3140	2820	2560	2350	2180
	2400	S	3000	2860	2530	2270	2070	1910	1780
		U	4870	4210	3710	3330	3030	2790	2600
	2200	S	3000	3000	3000	2980	2730	2530	2360
		U	5820	5030	4450	4010	3650	3370	3150
	2000	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	5440	4910	4490	4160	3900
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	5670	5280	4980
	1600	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1400	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1200	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
lxx = 1253 x 10³ mm⁴	Width		600	700	800	900	1000	1100	1200

Tables are based on theoretical section properties

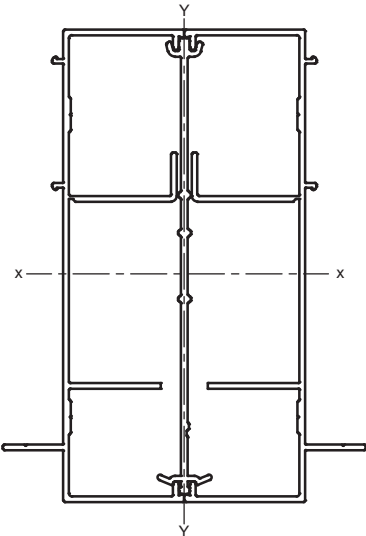
3. Loading Tables

AF211/AF39/AF211 Jamb & Coupling Bar

Max Stress = 110Mpa

S = Serviceability limit state I/250

U = Ultimate limit state

AF211 / AF39 / AF211 JAMB & COUPLING BAR	Height	Maximum Design Pressure (Pa)							
	3000	S	2690	2310	2040	1830	1660	1520	1410
		U	4960	4270	3760	3360	3050	2790	2580
	2800	S	3000	2860	2520	2260	2050	1890	1750
		U	5700	4920	4330	3880	3520	3230	2990
	2600	S	3000	3000	3000	2840	2590	2380	2210
		U	6000	5720	5040	4520	4110	3780	3500
	2400	S	3000	3000	3000	3000	3000	3000	2860
		U	6000	6000	5950	5350	4870	4480	4170
	2200	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	5860	5410	5050
	2000	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1600	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1400	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1200	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
Ixx = 2009 x 10 ³ mm ⁴	Width	600	700	800	900	1000	1100	1200	

Tables are based on theoretical section properties

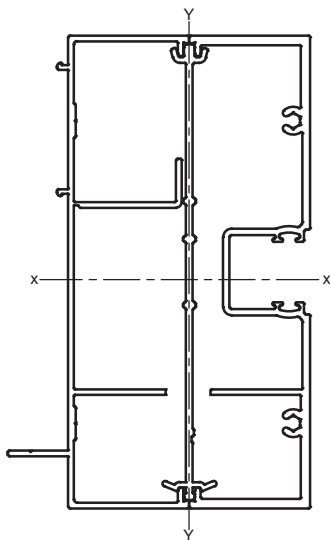
3. Loading Tables

AF211/AF39/AF212 Jamb, Coupling Bar & Frame

Max Stress = 110Mpa

S = Serviceability limit state l/250

U = Ultimate limit state

AF211 / AF39 / AF212 JAMB, COUPLING BAR & FRAME	Height	Maximum Design Pressure (Pa)							
	3000	S	2890	2490	2200	1970	1780	1640	1520
		U	5340	4600	4050	3620	3280	3010	2780
	2800	S	3000	3000	2710	2430	2210	2030	1880
		U	6000	5290	4660	4170	3790	3480	3220
	2600	S	3000	3000	3000	3000	2790	2560	2380
		U	6000	6000	5430	4870	4430	4070	3770
	2400	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	5760	5240	4830	4490
	2200	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	5830	5440
	2000	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1600	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1400	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1200	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
I_{xx} = 2163 x 10³ mm⁴	Width	600	700	800	900	1000	1100	1200	

Tables are based on theoretical section properties

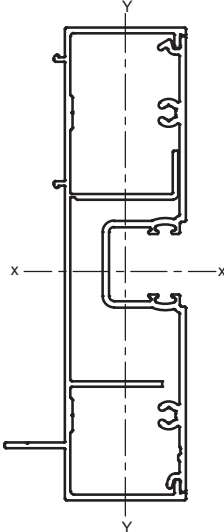
3. Loading Tables

AF211/AF213 Jamb & Glazing Adaptor

Max Stress = 110Mpa

S = Serviceability limit state I/250

U = Ultimate limit state

AF211 / AF213 JAMB & GLAZING ADAPTOR		Height	Maximum Design Pressure (Pa)						
	3000	S	1590	1370	1210	1080	980	900	830
		U	2940	2530	2230	1990	1810	1660	1530
	2800	S	1960	1690	1490	1340	1220	1120	1040
		U	3390	2920	2570	2300	2090	1910	1770
	2600	S	2460	2130	1880	1690	1530	1410	1310
		U	3940	3400	2990	2680	2440	2240	2080
	2400	S	3000	2720	2400	2160	1970	1820	1700
		U	4640	4000	3530	3170	2890	2660	2470
	2200	S	3000	3000	3000	2840	2600	2400	2250
		U	5540	4790	4240	3810	3480	3210	3000
	2000	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	5840	5180	4670	4280	3960	3710
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	5870	5400	5030	4740
	1600	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1400	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1200	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
I _{xx} = 1193 x 10 ³ mm ⁴		Width	600	700	800	900	1000	1100	1200

Tables are based on theoretical section properties

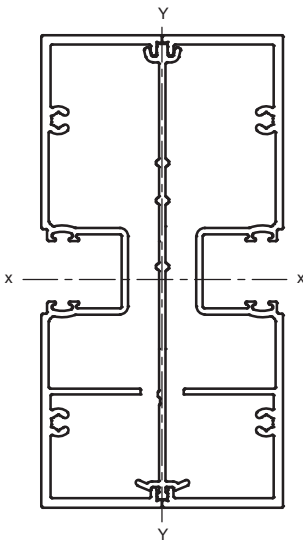
3. Loading Tables

AF212/AF39/AF212 Frame & Coupling Bar

Max Stress = 110Mpa

S = Serviceability limit state l/250

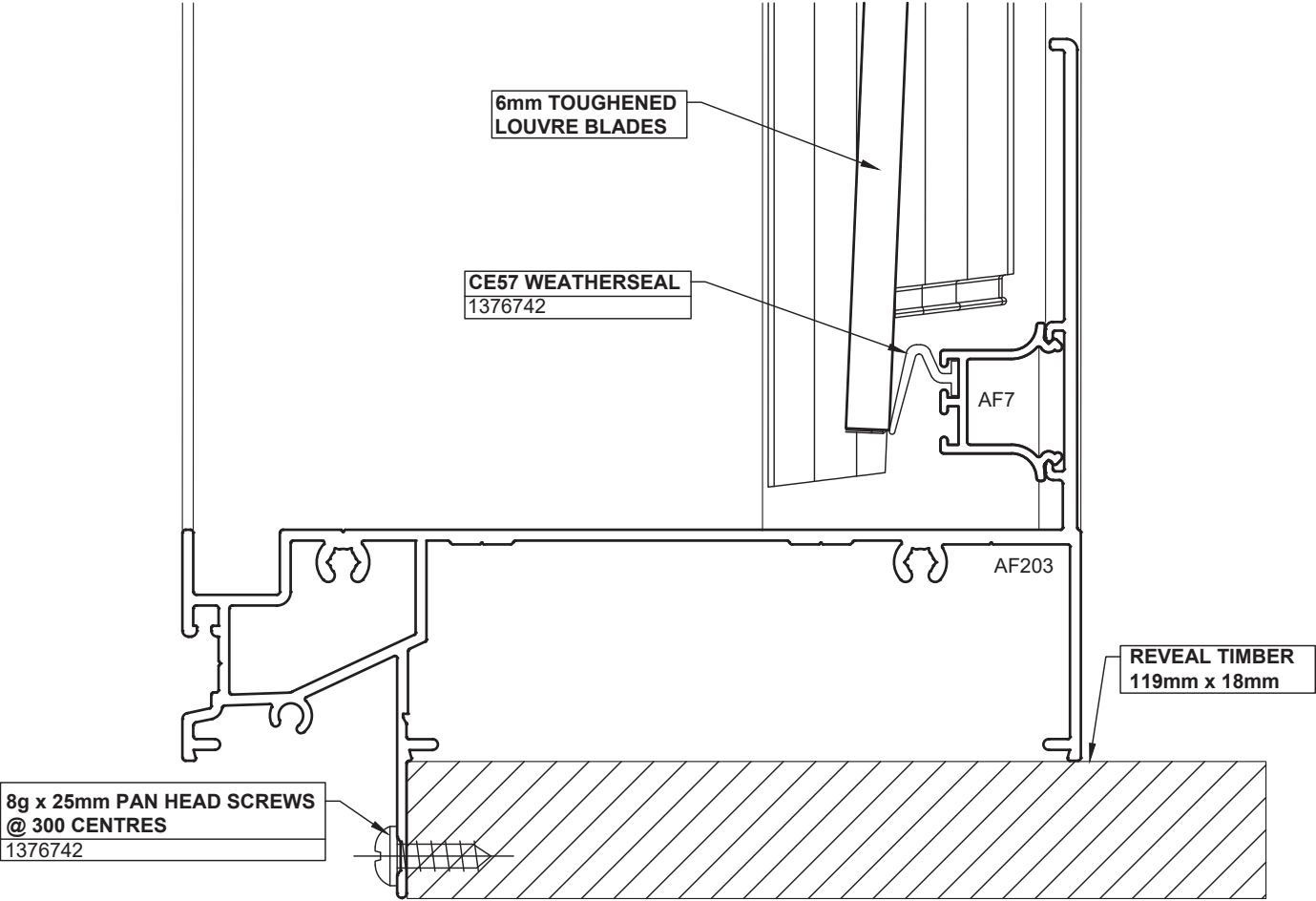
U = Ultimate limit state

AF212 / AF39 / AF212 JAMB & COUPLING BAR	Height	Maximum Design Pressure (Pa)						
	3000	S	3000	2680	2360	2110	1920	1760
		U	5760	4960	4370	3910	3540	3250
	2800	S	3000	3000	2920	2620	2380	2180
		U	6000	5710	5030	4510	4090	3750
	2600	S	3000	3000	3000	3000	3000	2760
		U	6000	6000	5860	5260	4780	4390
	2400	S	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	5660	5210
	2200	S	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	5870
	2000	S	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000
	1800	S	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000
	1600	S	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000
	1400	S	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000
	1200	S	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000
Ixx = 2326 x 10³ mm⁴	Width		600	700	800	900	1000	1100
								1200

Tables are based on theoretical section properties

AS2047 - Altair Louvre Frame

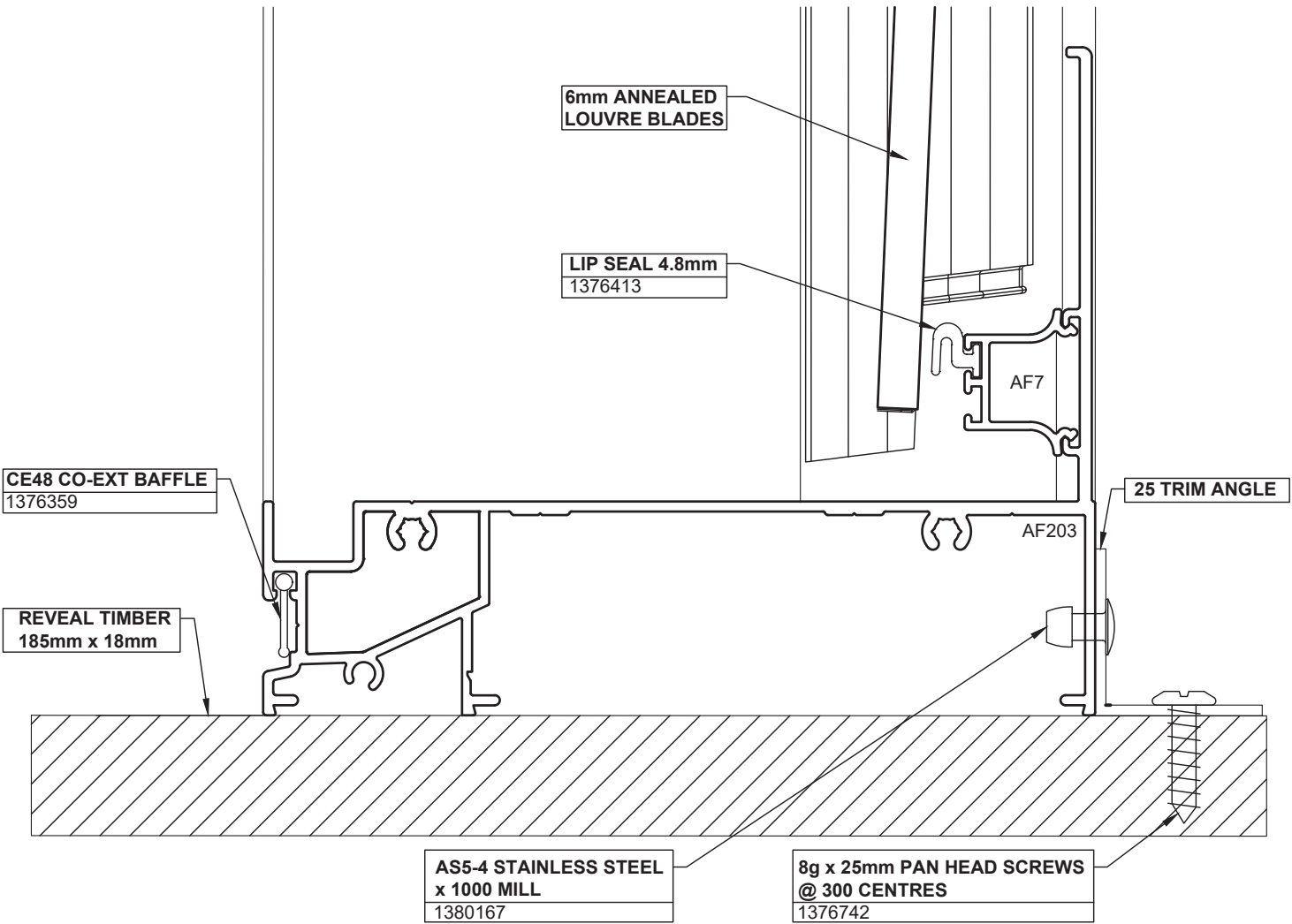
TEST REPORT:	20200427
SYSTEM CONFIGURATION	Alspec Air-Flo Plus 125mm Louvre Frame, Altair Louvre Gallery Toughened 152 glass blades
TEST SAMPLE SIZE	2.205m high x 0.8m wide
ULTIMATE LOAD	+/- 5.0 kPa
WATER PENETRATION	300 Pa
AIR INFILTRATION @ 75Pa	+ 3.27L/m/s ²



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

AS2047 - Altair Louvre Frame

TEST REPORT:	20200602
SYSTEM CONFIGURATION	Alspec Air-Flo Plus 125mm Louvre Frame, Altair Louvre Gallery Annealed 152 glass blades
TEST SAMPLE SIZE	1.505m high x 0.611m wide
WATER PENETRATION	450 Pa

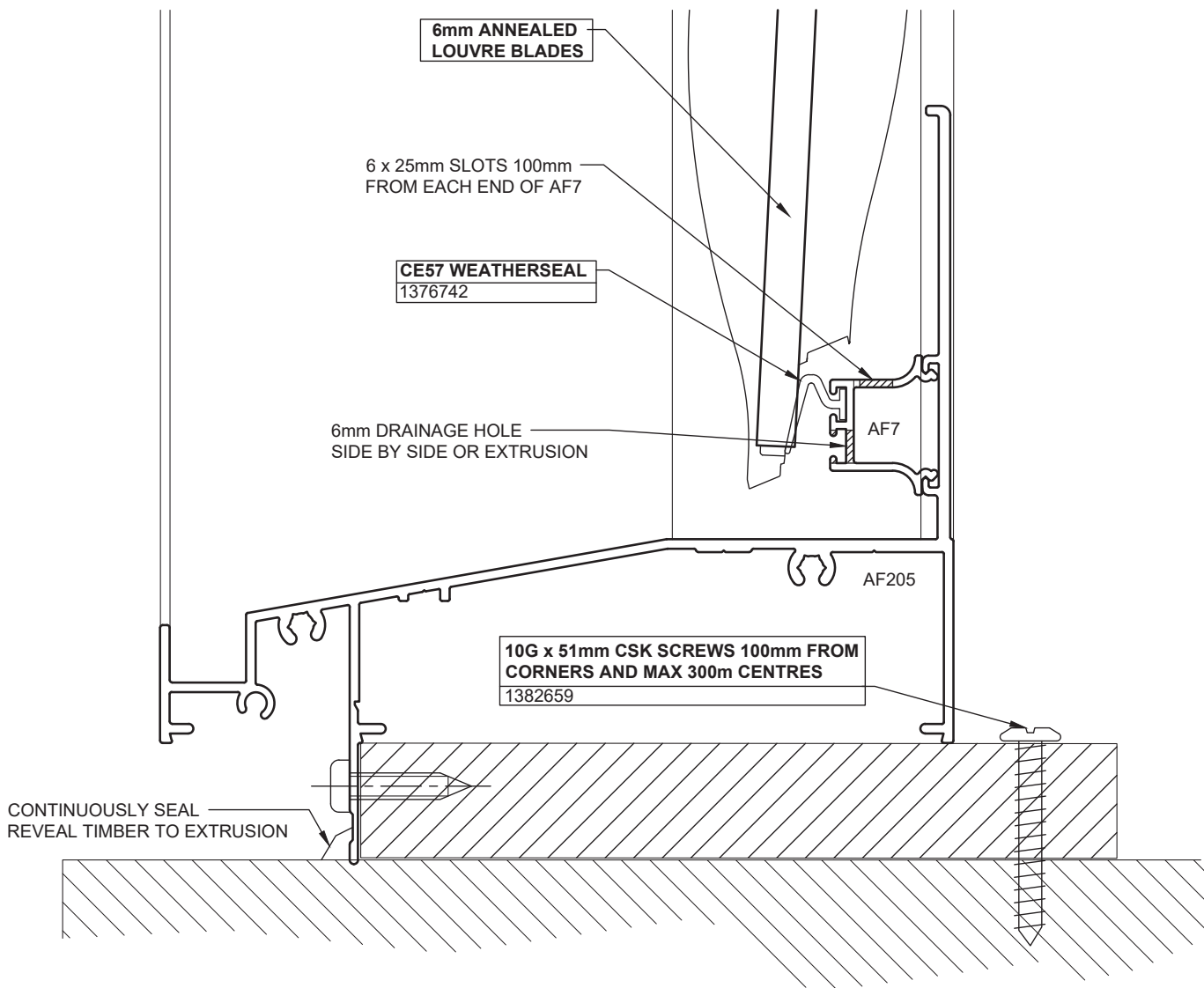


DISCLAIMER:

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.

AS2047 - Aero Louvre Frame

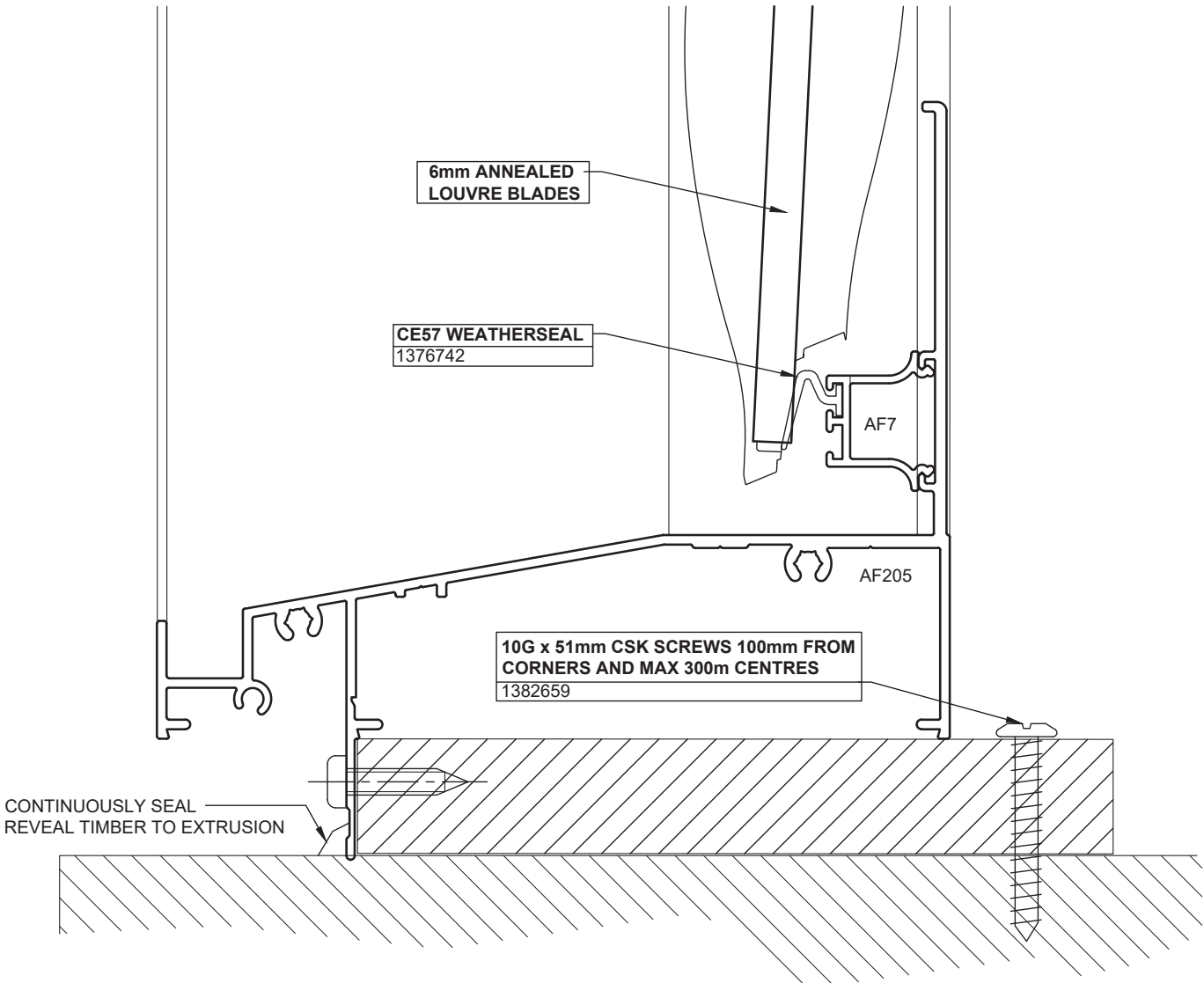
TEST REPORT:	OT21 - 059
SYSTEM CONFIGURATION	Alspec Air-Flo Plus 125mm Window, 152mm Aero Louvre 15 blade
TEST SAMPLE SIZE	2.205m high x 0.8m wide
ULTIMATE LOAD	+/- 1.4 kPa
WATER PENETRATION	152 Pa
AIR INFILTRATION @ 75Pa	+ 3.92 L/m/s ² - 5.44 L/m/s ²



DISCLAIMER:
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AS2047 - Altair Louvre Frame

TEST REPORT:	OT21 - 067
SYSTEM CONFIGURATION	Alspec Air-Flo Plus 125mm Window, 152mm Aero Louvre 6 blade
TEST SAMPLE SIZE	0.94m high x 0.61m wide
ULTIMATE LOAD	+/- 4.0 kPa
WATER PENETRATION	305 Pa
AIR INFILTRATION @ 75Pa	+1.25 L/m/s ² - 2.63 L/m/s ²

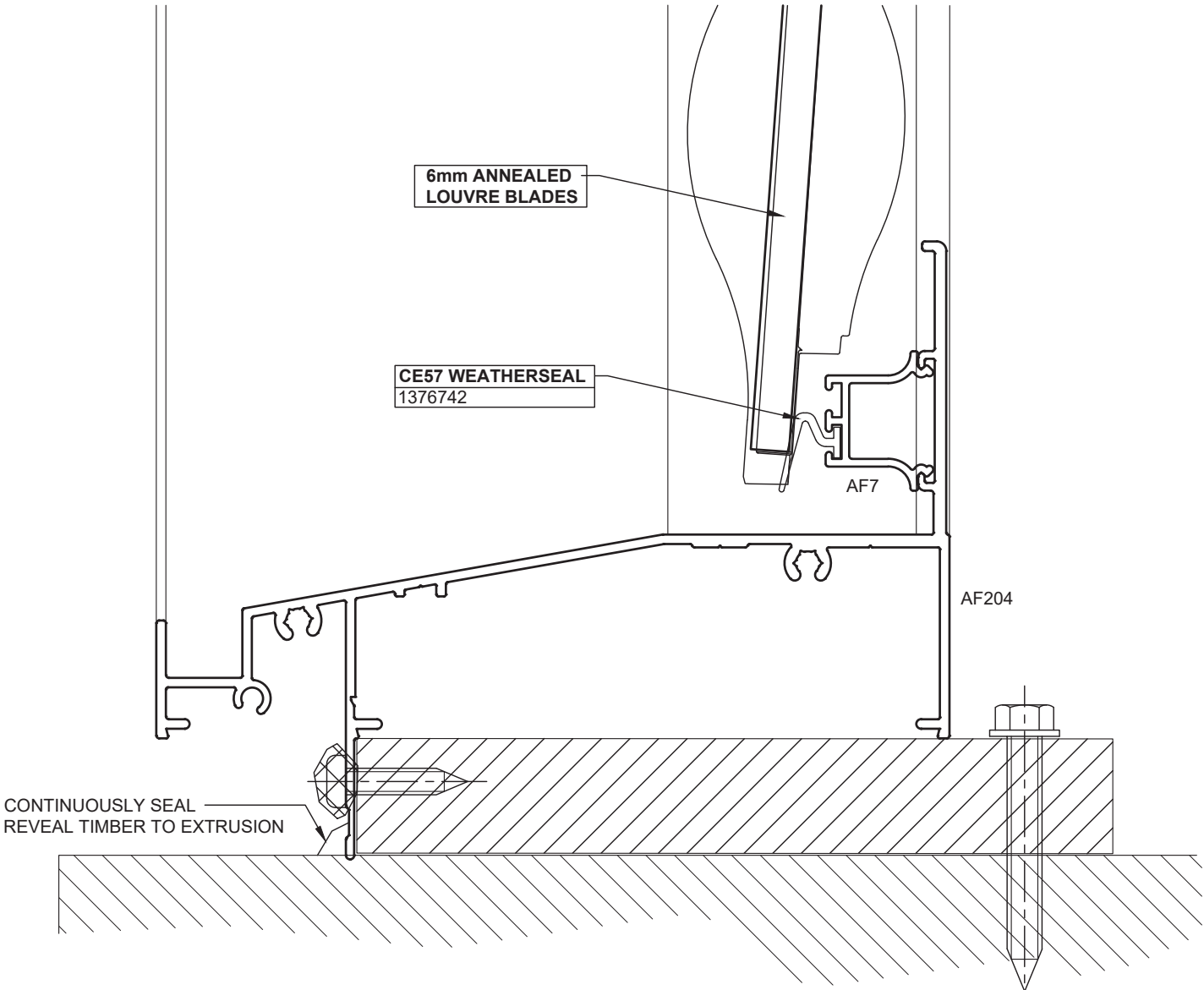


DISCLAIMER:

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

AS2047 - Aero Louvre Frame

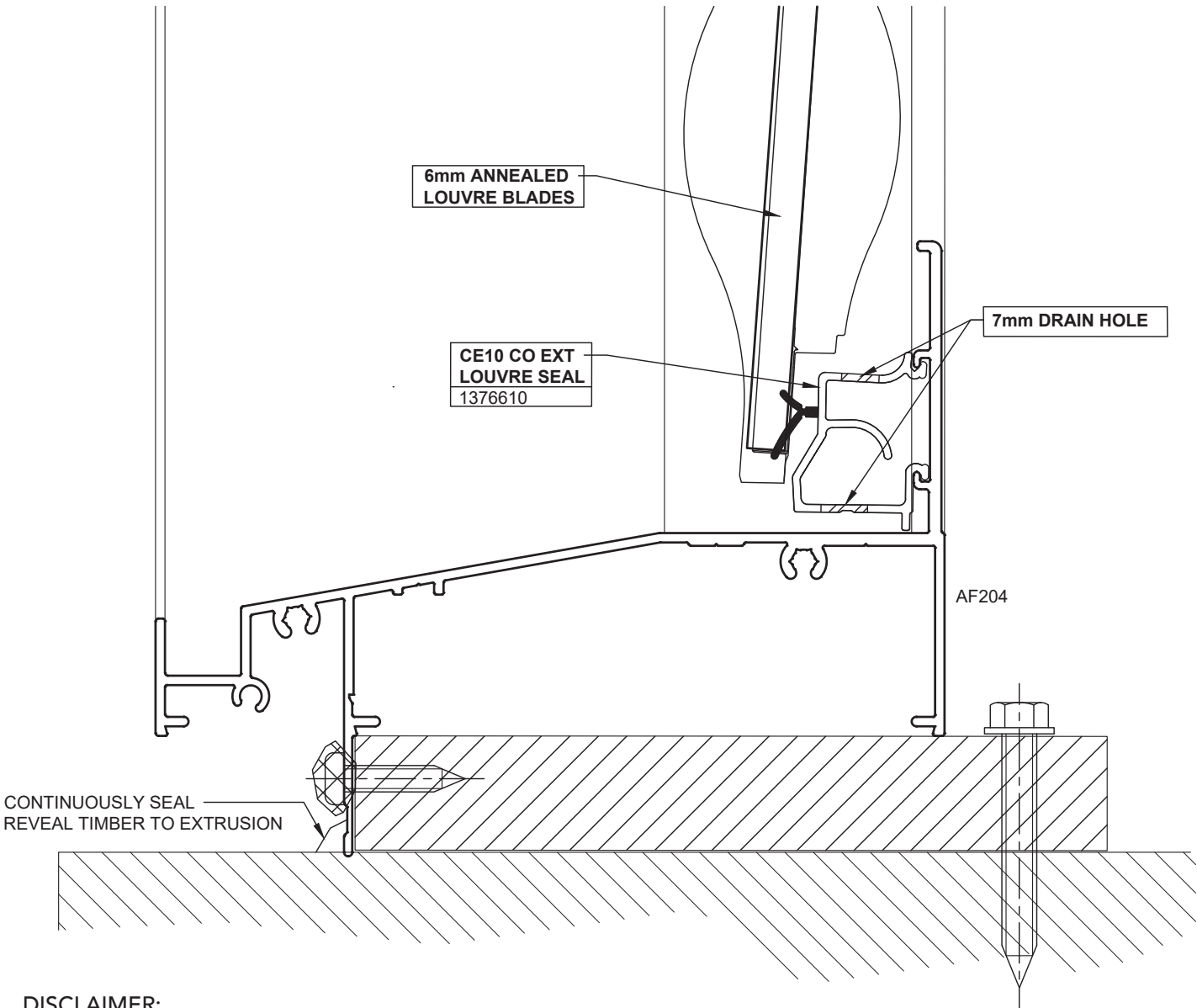
TEST REPORT:	OT21 - 061
SYSTEM CONFIGURATION	Alspec Air-Flo Plus 125mm Window, 102mm Aero Louvre 24 blade
TEST SAMPLE SIZE	2.239m high x 0.8m wide
ULTIMATE LOAD	+/- 1.4 kPa
WATER PENETRATION	155 Pa
AIR INFILTRATION @ 75Pa	+4.31 L/m/s ² - 4.62 L/m/s ²



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

AS2047 - Aero Louvre Frame

TEST REPORT:	OT22 - 118
SYSTEM CONFIGURATION	Alspec Air-Flo Plus 125mm Window, 102mm Aero Louvre 9 blade
TEST SAMPLE SIZE	0.9m high x 0.6m wide
ULTIMATE LOAD	+/- 4 kPa
WATER PENETRATION	300 Pa
AIR INFILTRATION @ 75Pa	+ 2.12 L/m/s ² - 3.04 L/m/s ²

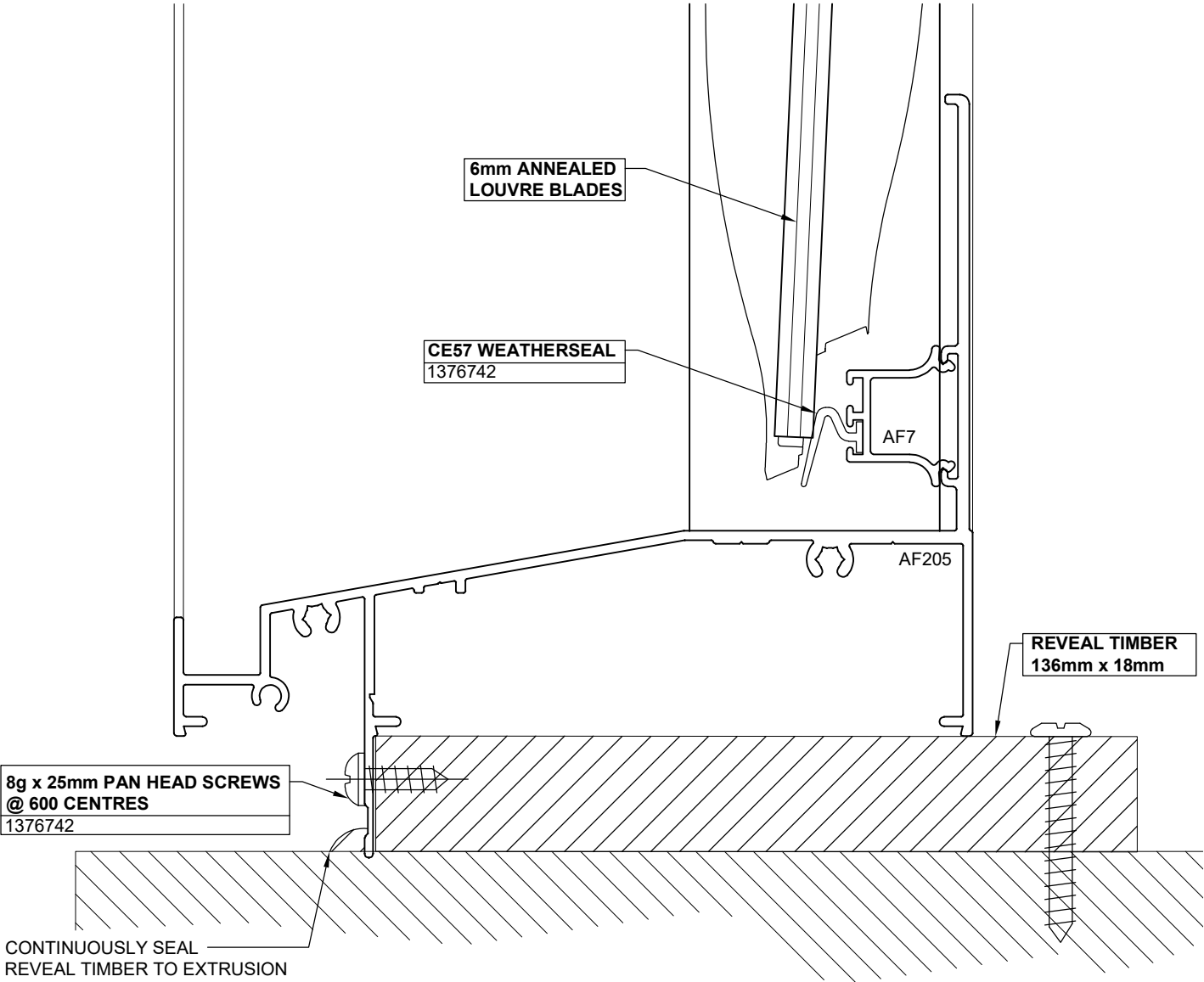


DISCLAIMER:

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

AS2047 - Aero Louvre Frame

TEST REPORT:	OT22 - 147
SYSTEM CONFIGURATION	Alspec Air-Flo Plus 125mm Window, 152mm Aero Louvre 21 blade
TEST SAMPLE SIZE	3.044m high x 0.964m wide
ULTIMATE LOAD	+/- 1.413 kPa
WATER PENETRATION	150 Pa
AIR INFILTRATION @ 75Pa	+ 0.89 L/m/s ² - 1.63 L/m/s ²



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

4. Test Summary

Bushfire BAL40 - AS 1530.8.1

TEST REPORT	PRODUCT DESCRIPTION	SIZE (mm)	GLASS	SEALS	RESULT
FSZ1662A & FCO-3147A	AF Louvre Window with Altair Gallery & Invisgard Screen	750 (H) x 300 (W)	6mm Clear Toughened	Santoprene	BAL 40
FRT210419.R1	Air-Flo Plus 125mm Aero Louvre & Invisgard Screen	2400 (H) x 500 (W)	6mm Clear Toughened	FR-PVC	BAL AA-40

Note: Maximum Breezway gallery height allowed is 2.4m x 1.0m wide under BAL40 Bushfire conditions.

Protection of Openable Windows - AS 5203: 2016

TEST REPORT	PRODUCT DESCRIPTION	SIZE (mm)	RESTRICTOR DEVICE	RESULT
OT.POW22-03	Air Flo Plus with 102mm Aero Louvre 9 blade & restricted opening	904 (H) x 876 (W)	AFL013 Bearing cap restrictor	PASS
OT.POW22-04revA	Air Flo Plus with 152mm Aero Louvre 6 blade & restricted opening	944 (H) x 1030 (W)	AFL012 Bearing cap restrictor	PASS
OT.POW21-02	Air Flo Plus 125mm Louvre Frame & Kidscreen Stainless steel mesh	2431 (H) x 970 (W)	SS KidScreen Protection	PASS

Neutral Salt Spray - AS2331.3.1

TEST REPORT	PRODUCT DESCRIPTION	DURATION
EST-NSW-349643640884	Aero Gallery & Standard Handle & Handle Cover	1000 hours

UV Weathering Resistance - ASTM - G154 - 00

TEST REPORT	PRODUCT DESCRIPTION	DURATION
OT.UV21-01	Aero Louvre Clips & Standard Handle & Handle Cover	2950 hours

Cyclic Testing

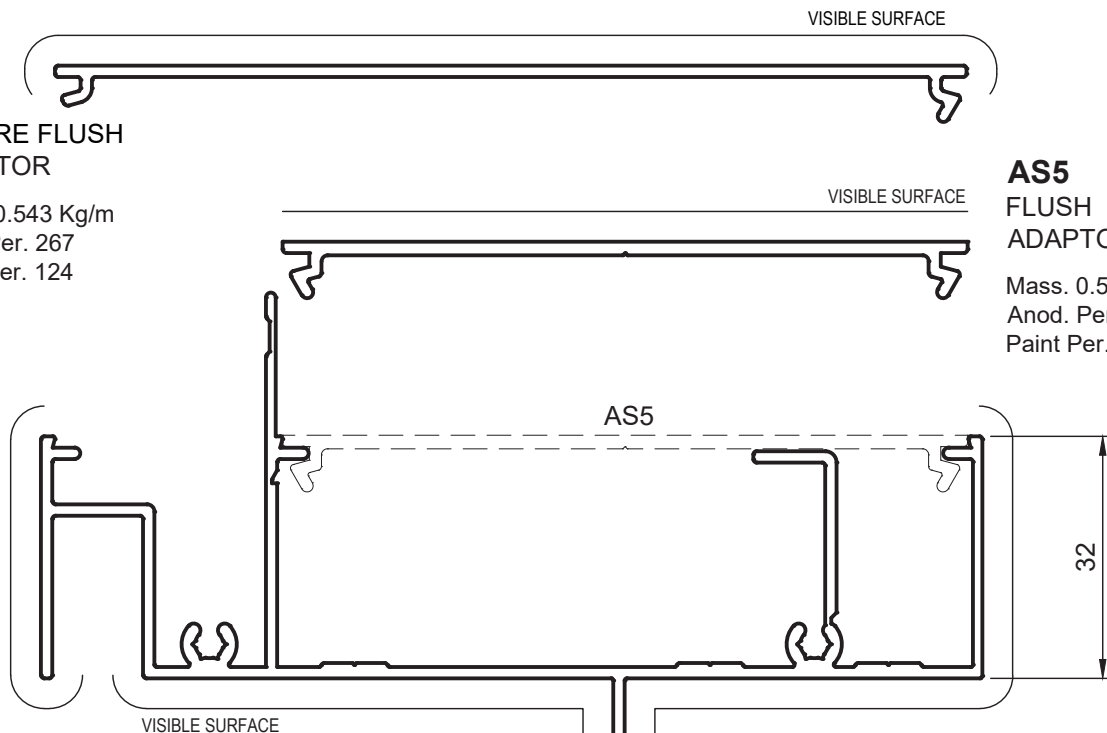
TEST REPORT	PRODUCT DESCRIPTION	DURATION
OTRT21-05	Air Flo Plus 125mm Louvre Frame 152mm Aero Louvre 6 Blade	59,380 Cycles

AF21
LOUVRE FLUSH
ADAPTOR

Mass. 0.543 Kg/m
Anod. Per. 267
Paint Per. 124

AS5
FLUSH
ADAPTOR

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



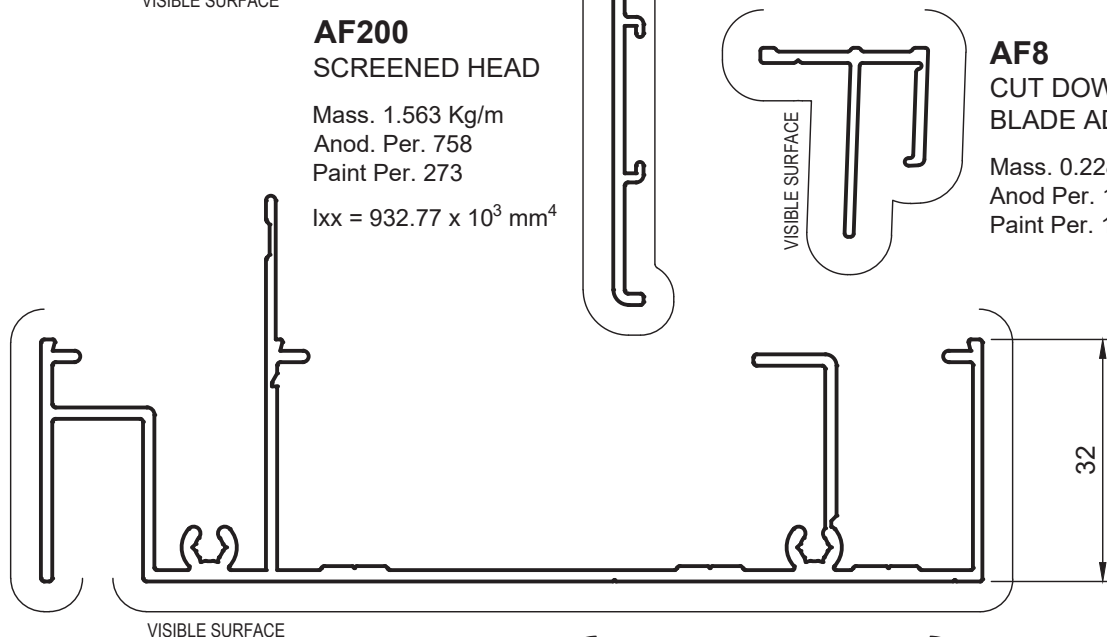
AF200
SCREENED HEAD

Mass. 1.563 Kg/m
Anod. Per. 758
Paint Per. 273

$I_{xx} = 932.77 \times 10^3 \text{ mm}^4$

AF8
CUT DOWN
BLADE ADAPTOR

Mass. 0.228 Kg/m
Anod. Per. 124
Paint Per. 101



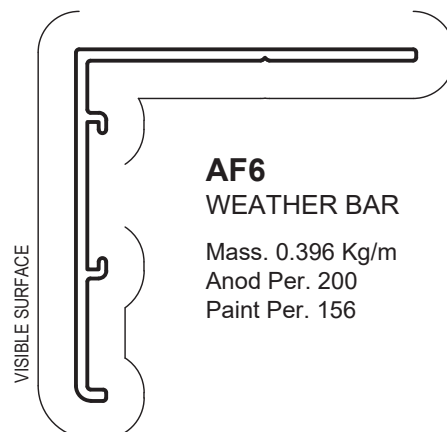
AF201
PLAIN SCREENED HEAD

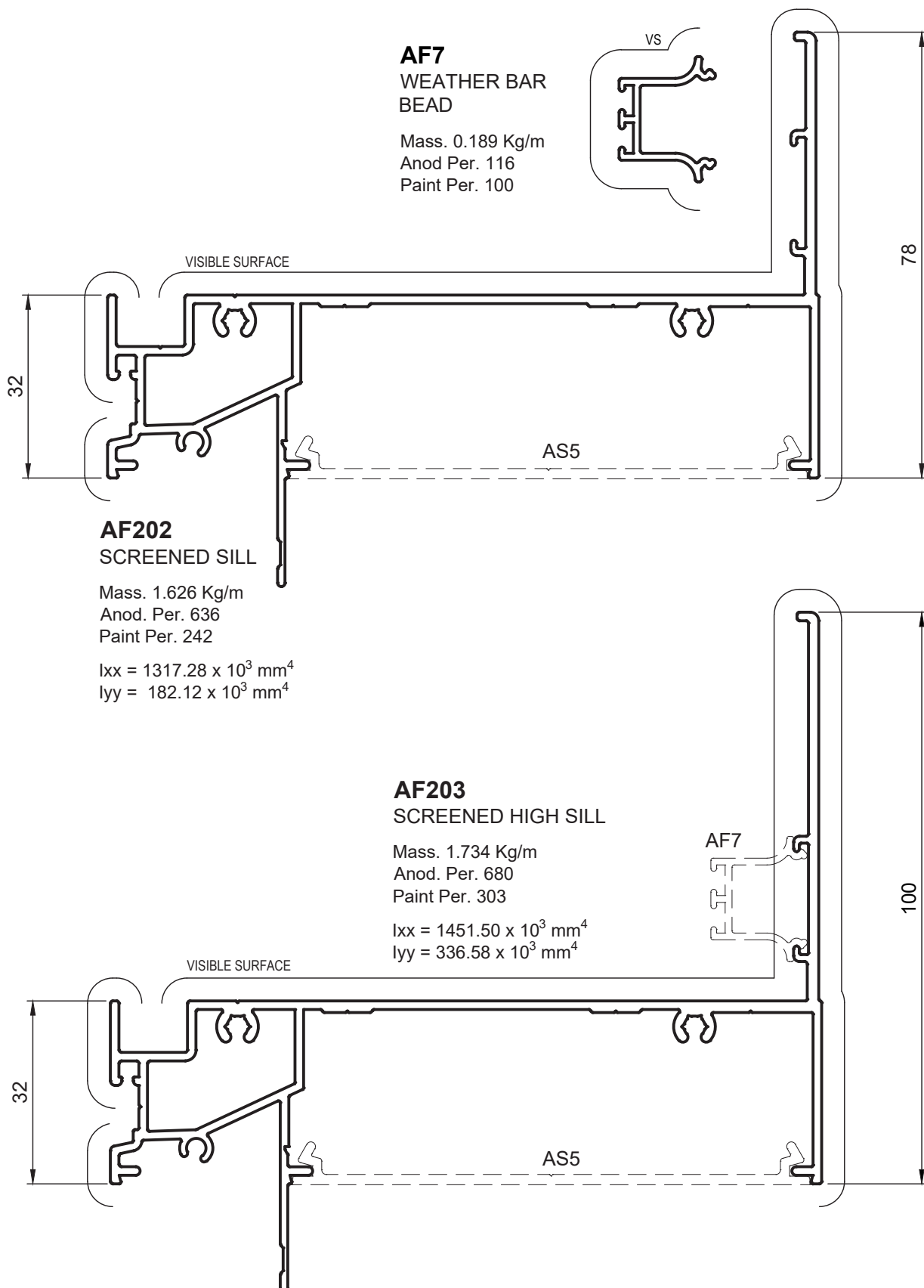
Mass. 1.343 Kg/m
Anod. Per. 648
Paint Per. 177

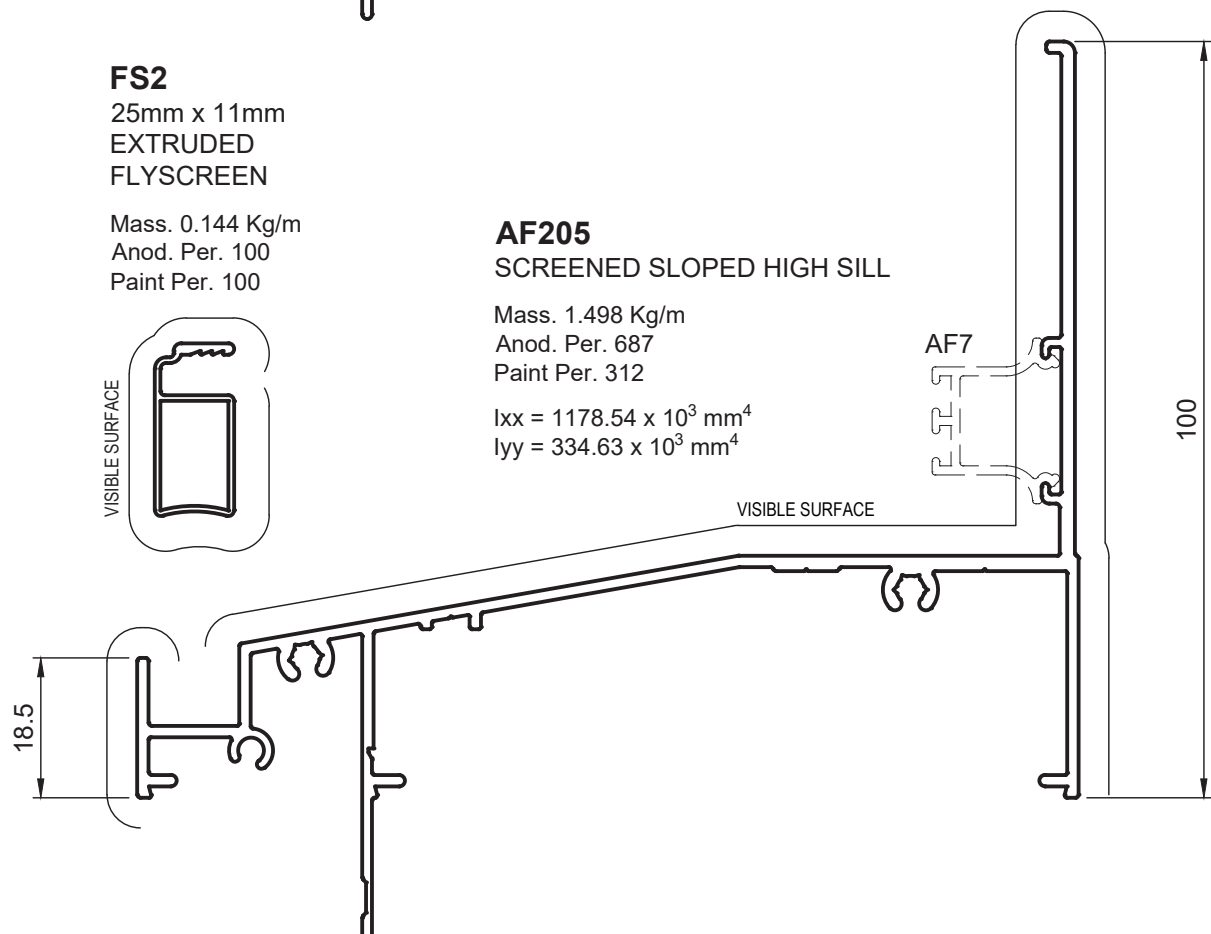
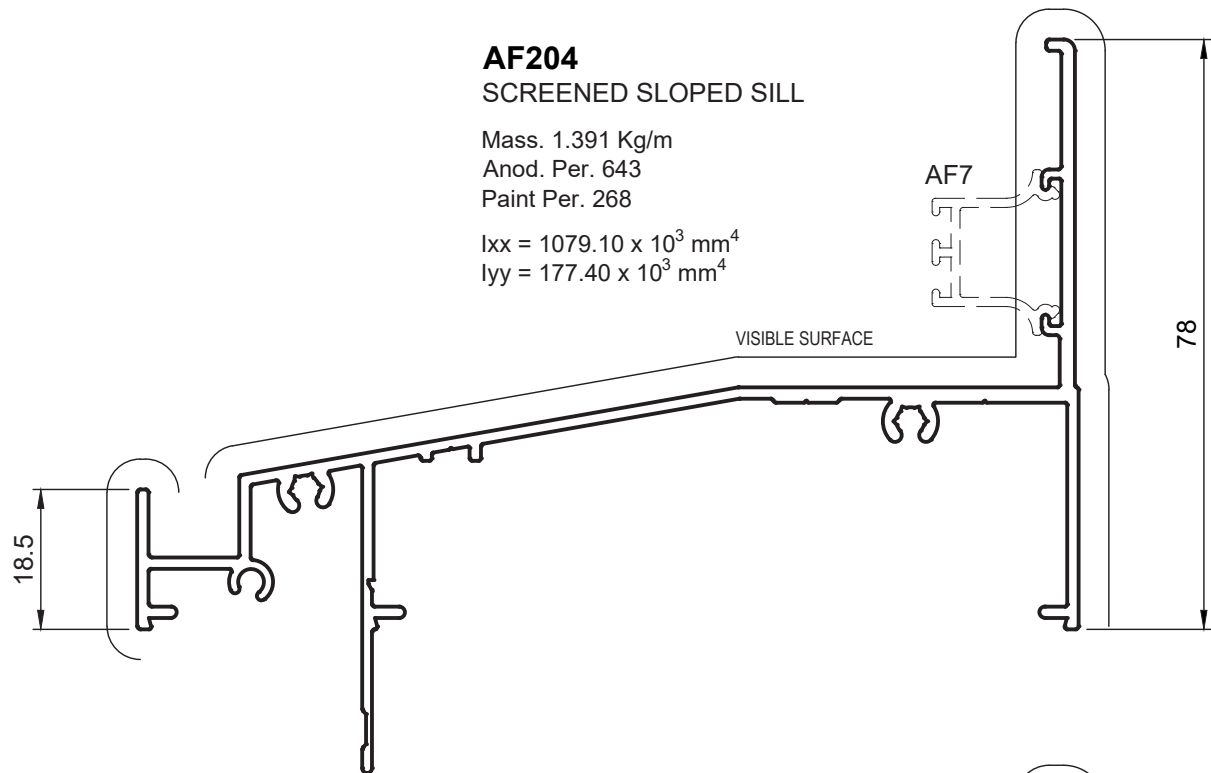
$I_{xx} = 907.71 \times 10^3 \text{ mm}^4$

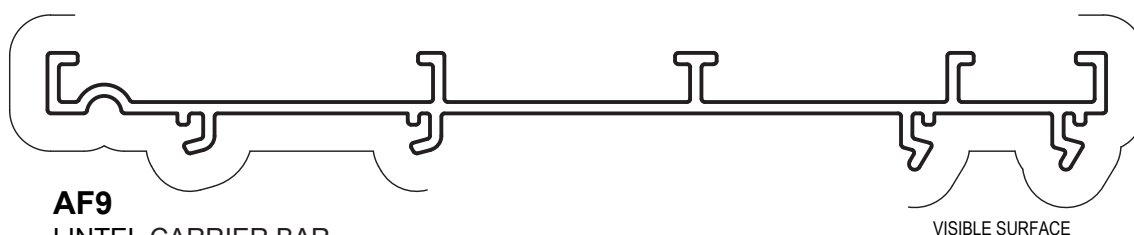
AF6
WEATHER BAR

Mass. 0.396 Kg/m
Anod. Per. 200
Paint Per. 156









AF9

LINTEL CARRIER BAR

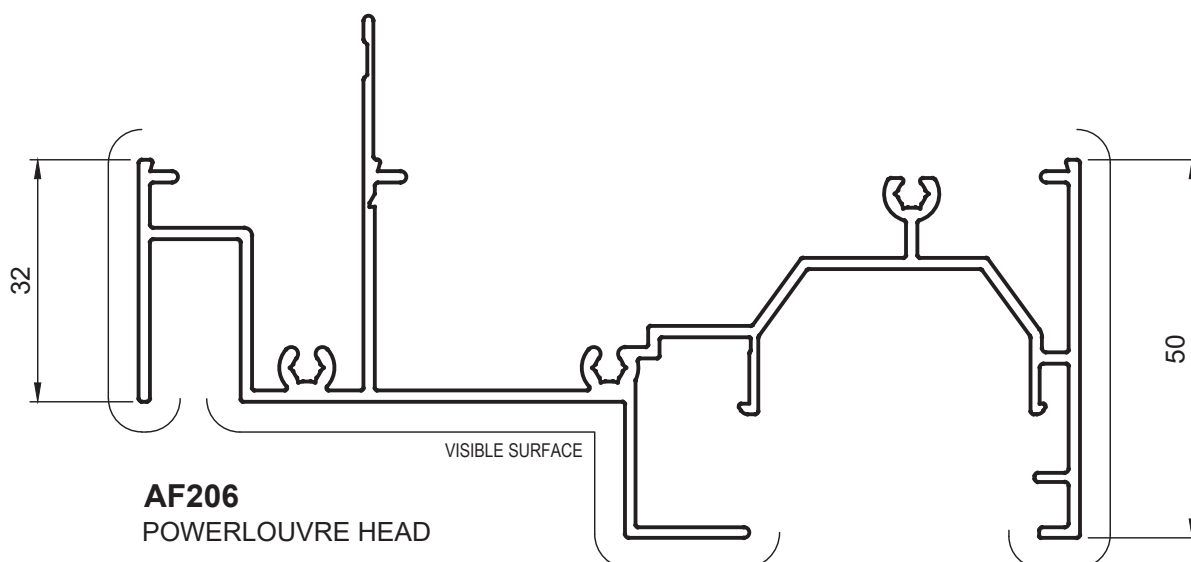
Mass. 0.920 Kg/m

Anod. Per. 443

Paint Per. 100

$I_{xx} = 655.57 \times 10^3 \text{ mm}^4$

$I_{yy} = 2.84 \times 10^3 \text{ mm}^4$



AF206

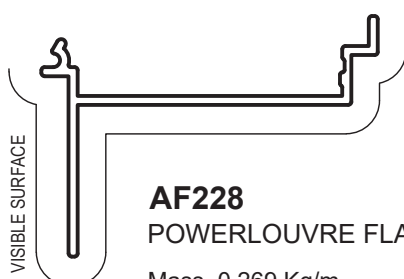
POWERLOUVRE HEAD

Mass. 1.635 Kg/m

Anod. Per. 799

Paint Per. 201

$I_{xx} = 1074.13 \times 10^3 \text{ mm}^4$



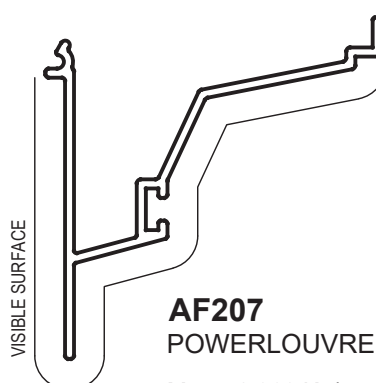
AF228

POWERLOUVRE FLAT ADAPTOR

Mass. 0.269 Kg/m

Anod. Per. 166

Paint Per. 100



AF207

POWERLOUVRE ADAPTOR

Mass. 0.368 Kg/m

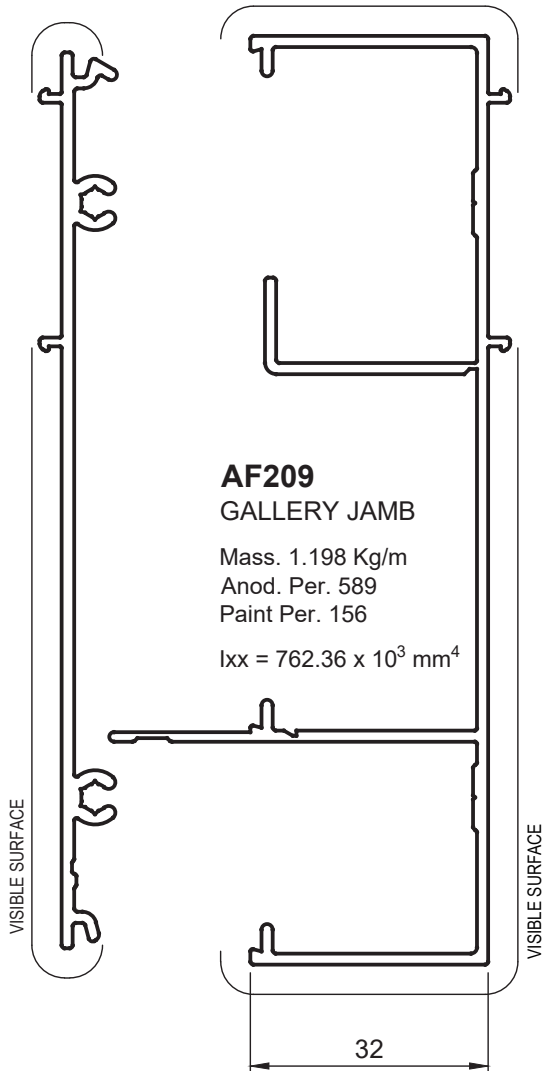
Anod. Per. 223

Paint Per. 103

AF208

GALLERY INFILL
ADAPTOR

Mass. 0.744 Kg/m
Anod. Per. 322
Paint Per. 100

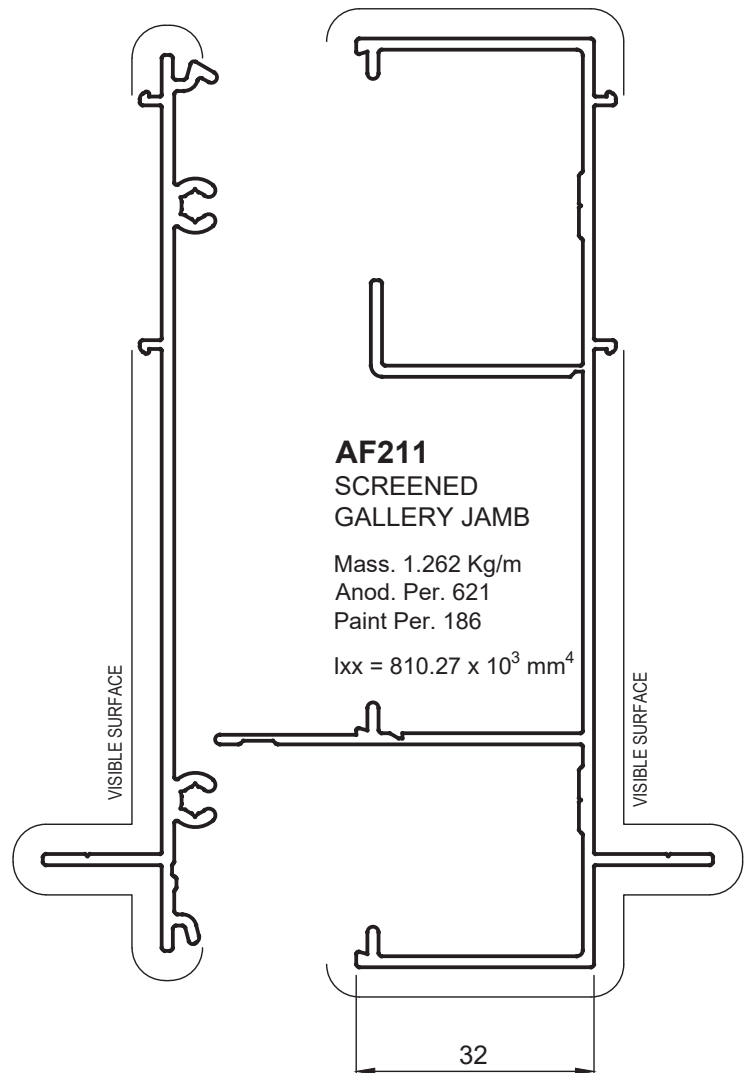


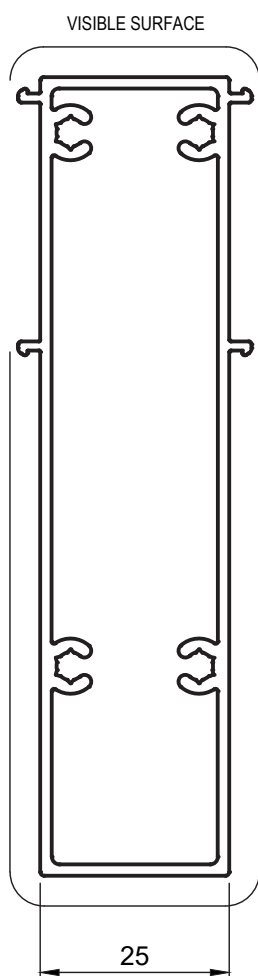
AF210

GALLERY INFILL
SCREEN ADAPTOR

Mass. 0.808 Kg/m
Anod. Per. 354
Paint Per. 121

$I_{xx} = 442.43 \times 10^3 \text{ mm}^4$

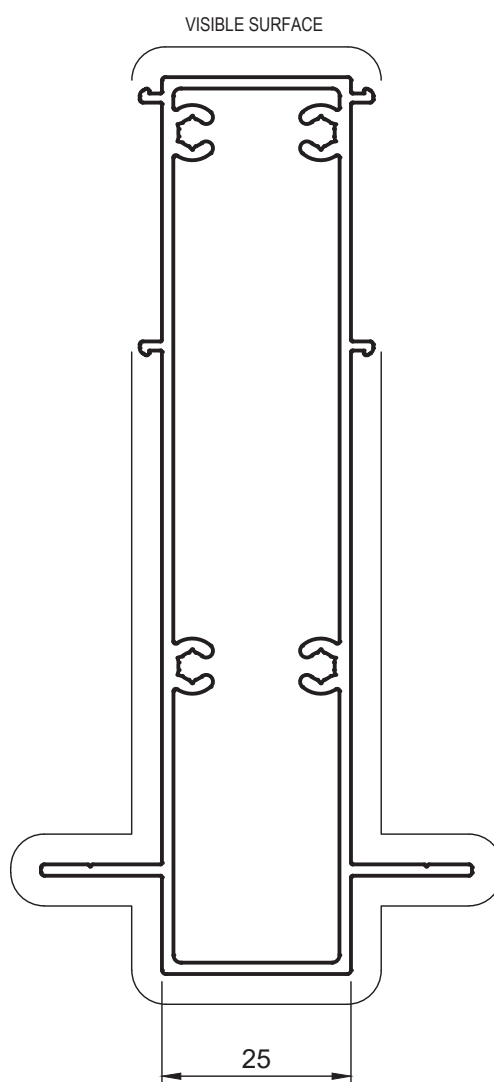




AF218
MULLION

Mass. 1.310 Kg/m
Anod. Per. 286
Paint Per. 189

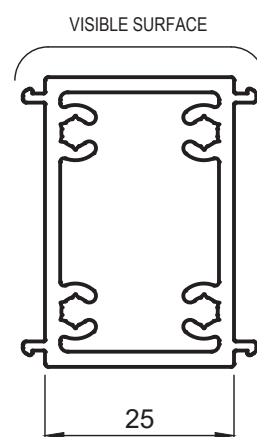
$I_{xx} = 607.64 \times 10^3 \text{ mm}^4$



AF219
SCREENED MULLION

Mass. 1.547 Kg/m
Anod. Per. 375
Paint Per. 278

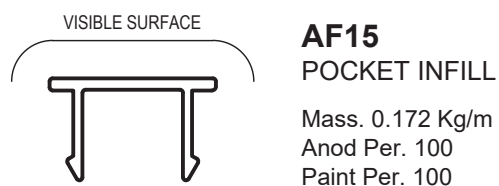
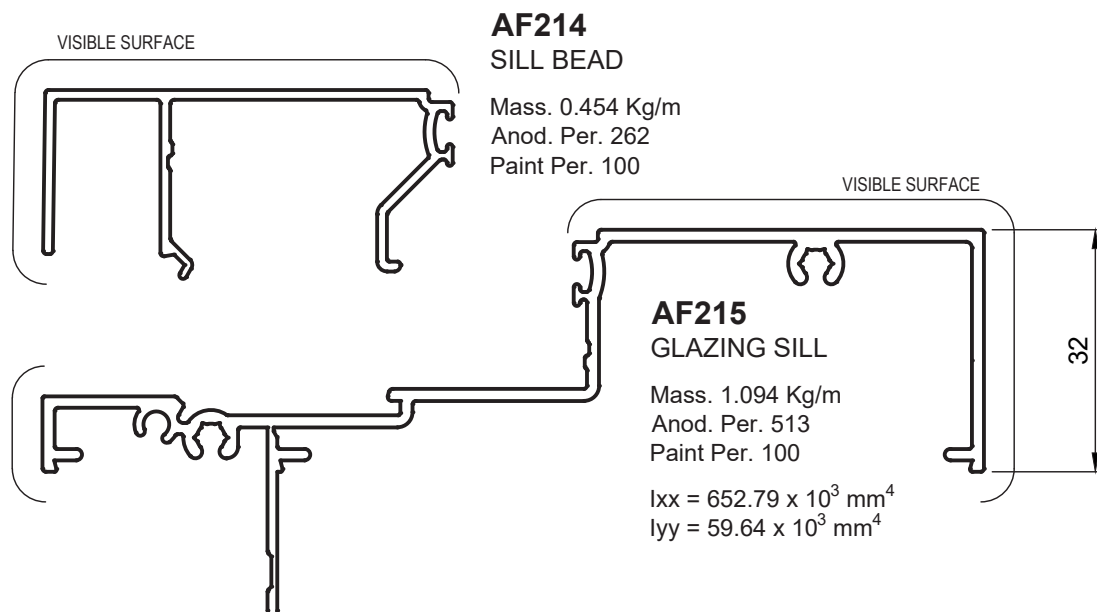
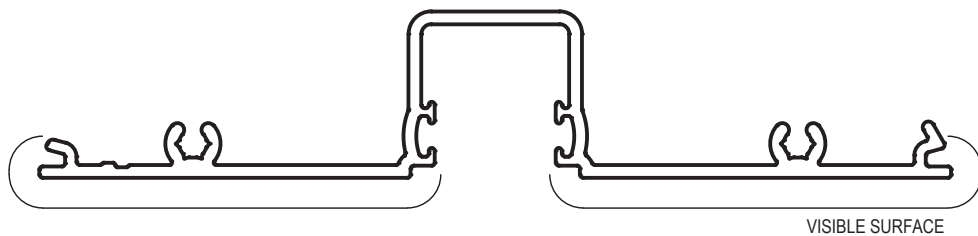
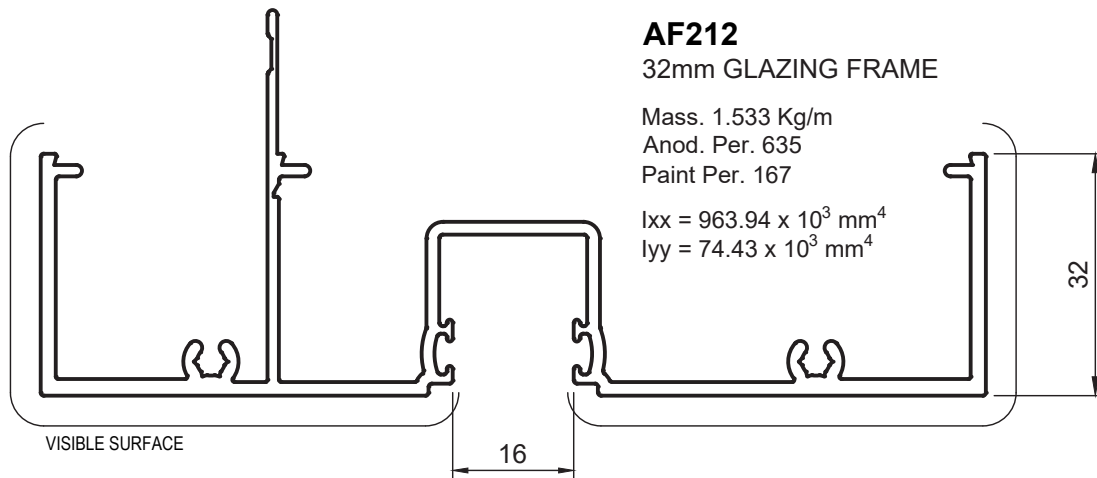
$I_{xx} = 904.33 \times 10^3 \text{ mm}^4$



AF220
38mm MULLION

Mass. 0.882 Kg/m
Anod. Per. 151
Paint Per. 100

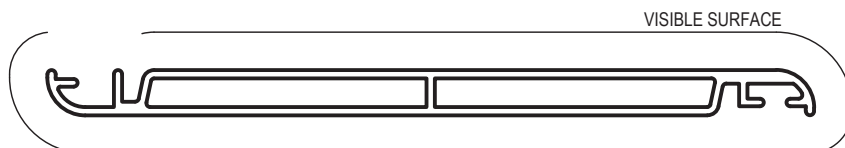
$I_{xx} = 61.4 \times 10^3 \text{ mm}^4$



AF102

LOUVRE 102mm
ALUM BLADE

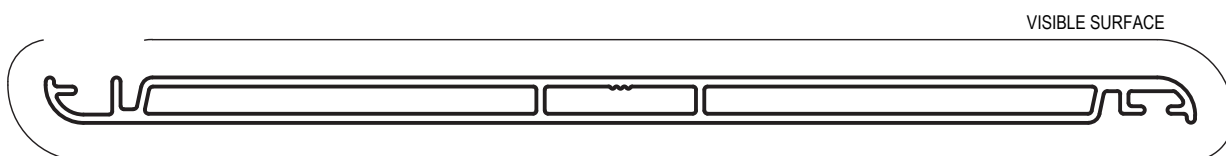
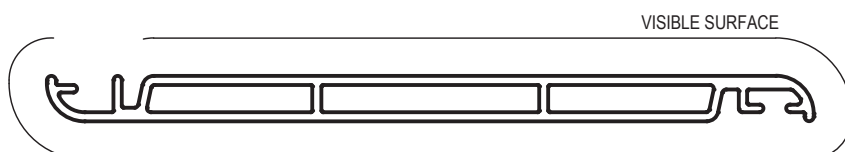
Mass. 0.642 Kg/m
Anod Per. 249
Paint Per. 226



AF102M

LOUVRE 102mm
ALUM BLADE

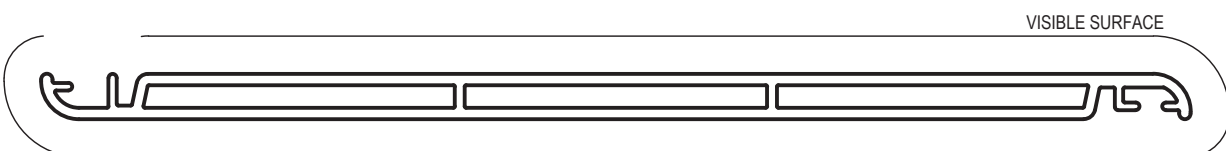
Mass. 0.700 Kg/m
Anod Per. 247
Paint Per. 247



AF152

LOUVRE 152mm ALUM BLADE

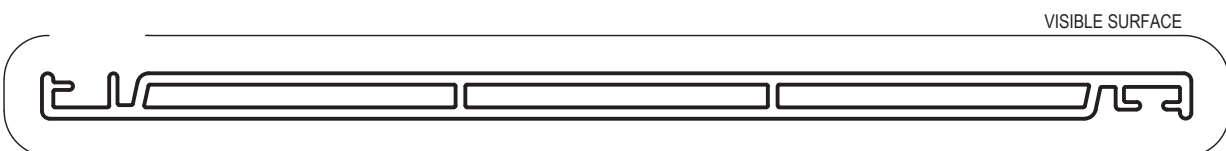
Mass. 1.024 Kg/m
Anod Per. 349
Paint Per. 288



AF152M

LOUVRE 152mm ALUM BLADE

Mass. 1.245 Kg/m
Anod Per. 348
Paint Per. 348



AF152SQ

LOUVRE 152mm ALUM BLADE

Mass. 1.262 Kg/m
Anod Per. 354
Paint Per. 354

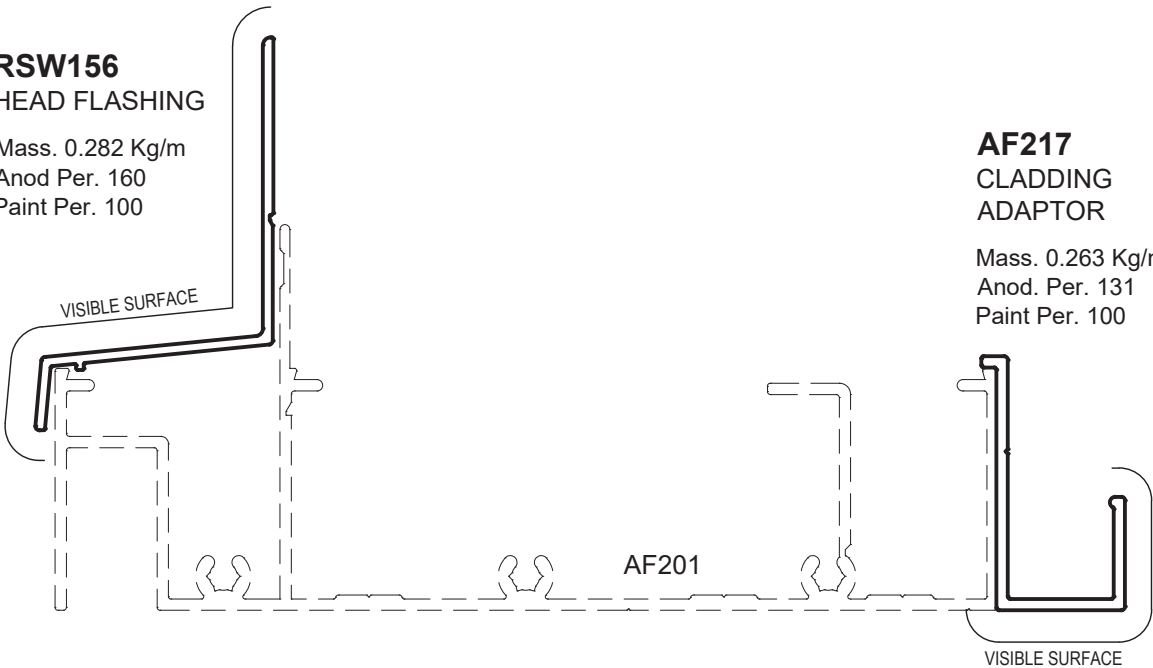
NOTE: SEAL USED IN BETWEEN ALUMINIUM BLADES IS MS7. REFER TO PAGE 6.2

RSW156
HEAD FLASHING

Mass. 0.282 Kg/m
Anod Per. 160
Paint Per. 100

AF217
CLADDING
ADAPTOR

Mass. 0.263 Kg/m
Anod. Per. 131
Paint Per. 100

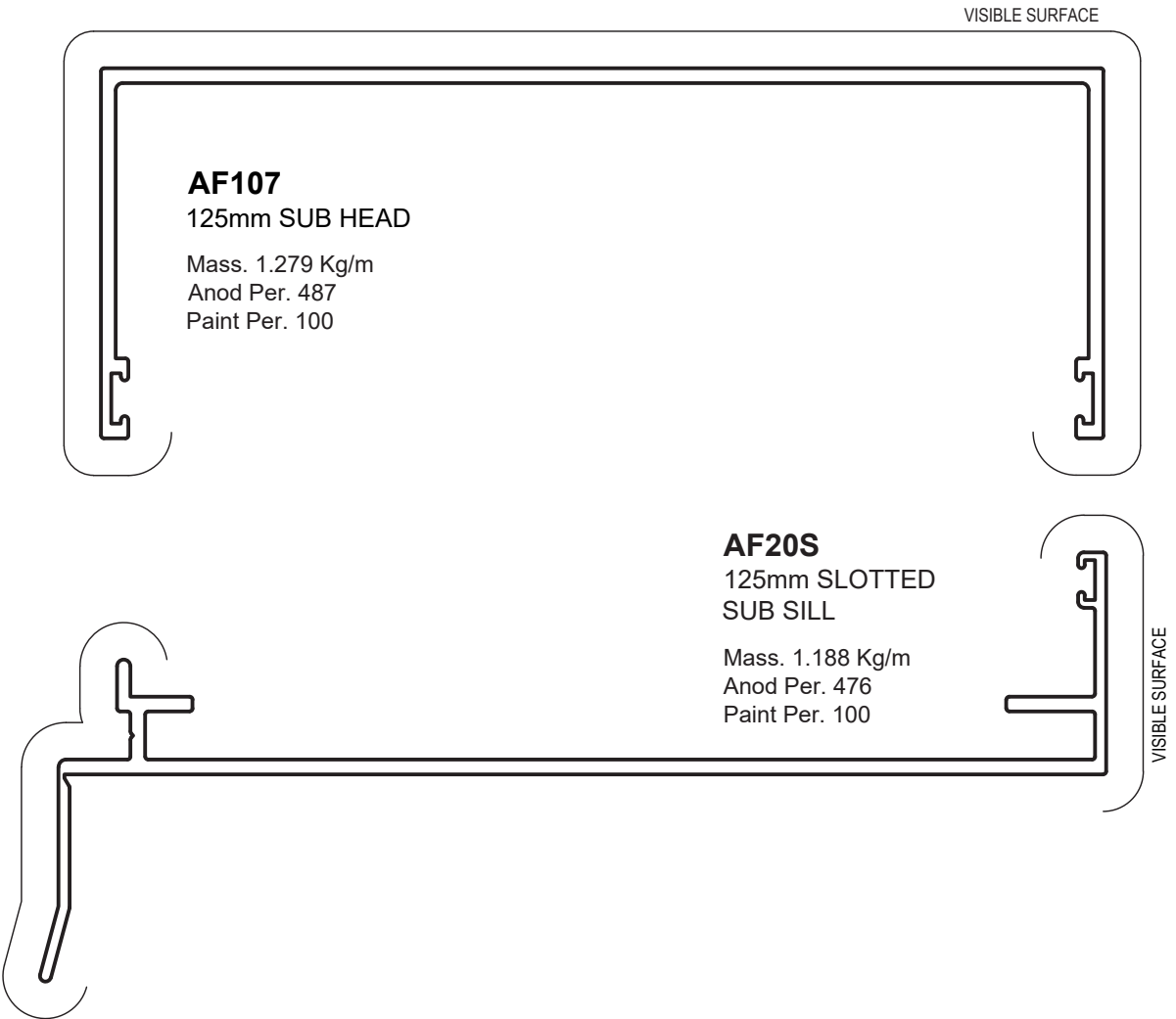


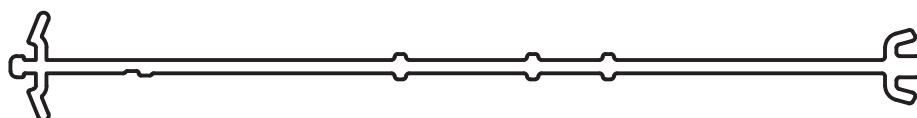
AF107
125mm SUB HEAD

Mass. 1.279 Kg/m
Anod Per. 487
Paint Per. 100

AF20S
125mm SLOTTED
SUB SILL

Mass. 1.188 Kg/m
Anod Per. 476
Paint Per. 100





AF39

125mm COUPLING BAR

Mass. 0.702 Kg/m
Anod. Per. 299
No Visible Surface

$I_{xx} = 389.26 \times 10^3 \text{ mm}^4$
 $I_{yy} = 0.61 \times 10^3 \text{ mm}^4$



AF14

COUPLING BAR

Mass. 0.719 Kg/m
Anod Per. 299
No Visible Surface

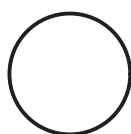
$I_{xx} = 411.33 \times 10^3 \text{ mm}^4$
 $I_{yy} = 0.69 \times 10^3 \text{ mm}^4$



AF38

**SECURITY JAMB
W/CSK HOLES**

Mass. 0.276 Kg/m
Anod Per. 100
Paint Per. 100



1000014

**ROUND ROD 16mm
(SECURITY BAR)**

Mass. 0.543 Kg/m
Satin Black P/C



AF41

GALLERY COUPLER

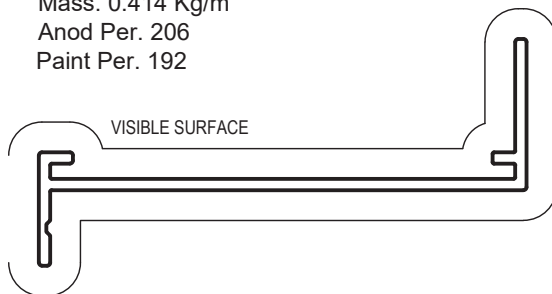
Mass. 0.152 Kg/m
Anod Per. 100
No Visible Surface

NOTE:
THE EXTRUSIONS DISPLAYED ON THIS PAGE ARE
ONLY SUITABLE FOR 50mm FRAMING.

AF33

LOUVRE BUILDOUT FRAME

Mass. 0.414 Kg/m
Anod Per. 206
Paint Per. 192

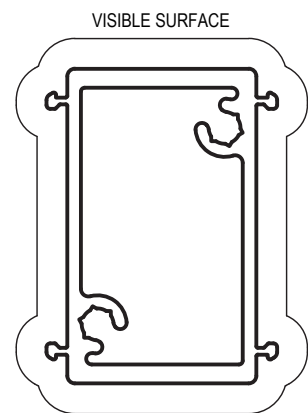


AF34

50mm LOUVRE
FRAME MULLION

Mass. 0.849 Kg/m
Anod Per. 158
Paint Per. 158

$I_{xx} = 74.39 \times 10^3 \text{ mm}^4$

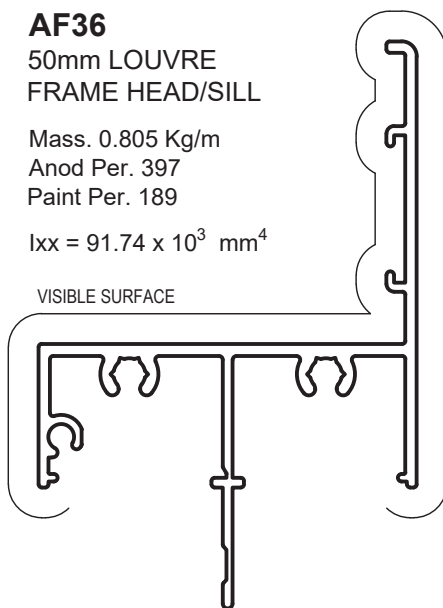


AF36

50mm LOUVRE
FRAME HEAD/SILL

Mass. 0.805 Kg/m
Anod Per. 397
Paint Per. 189

$I_{xx} = 91.74 \times 10^3 \text{ mm}^4$

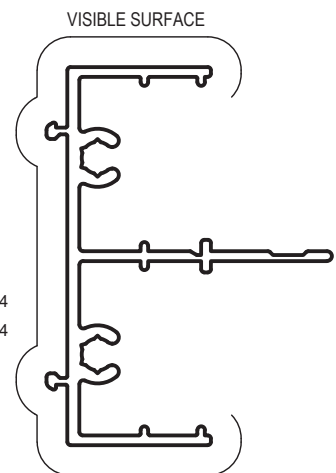


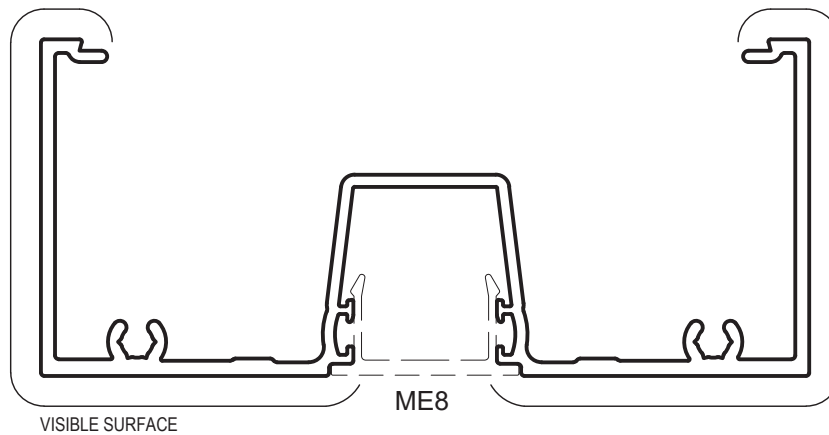
AF35

50mm LOUVRE
FRAME JAMB

Mass. 0.604 Kg/m
Anod Per. 307
Paint Per. 105

$I_{xx} = 54.81 \times 10^3 \text{ mm}^4$
 $I_{yy} = 14.79 \times 10^3 \text{ mm}^4$

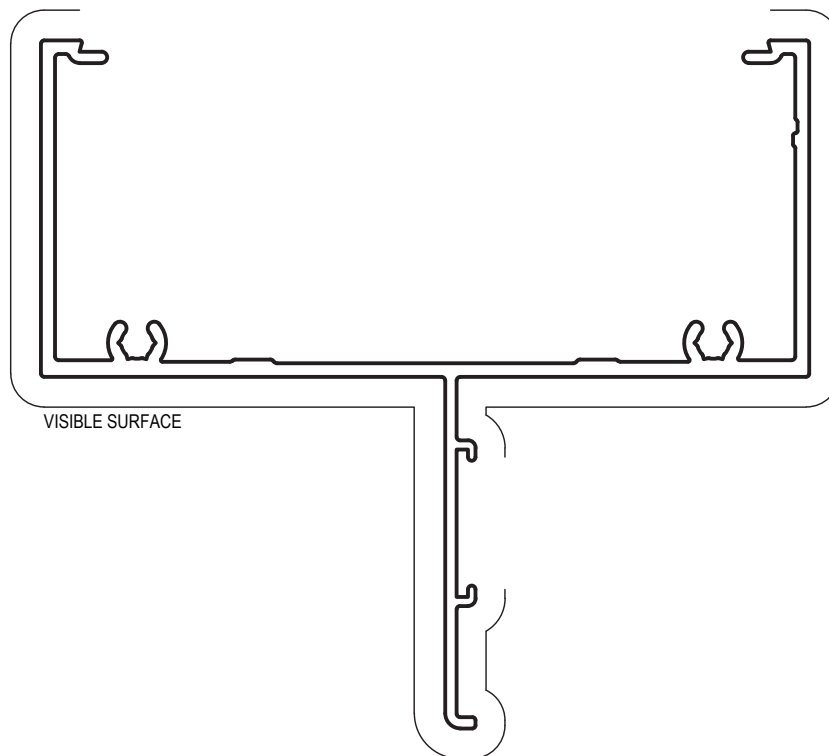




ME1
FRAME / JAMB

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

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

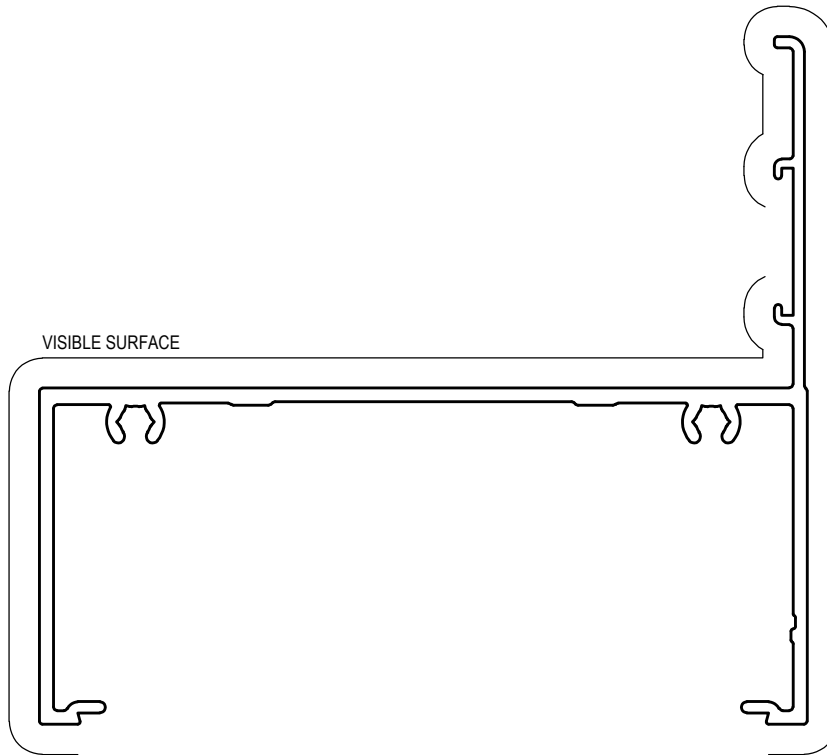


AF55
McARTHUR EVO
LOUVRE HEAD

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

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

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



AF53

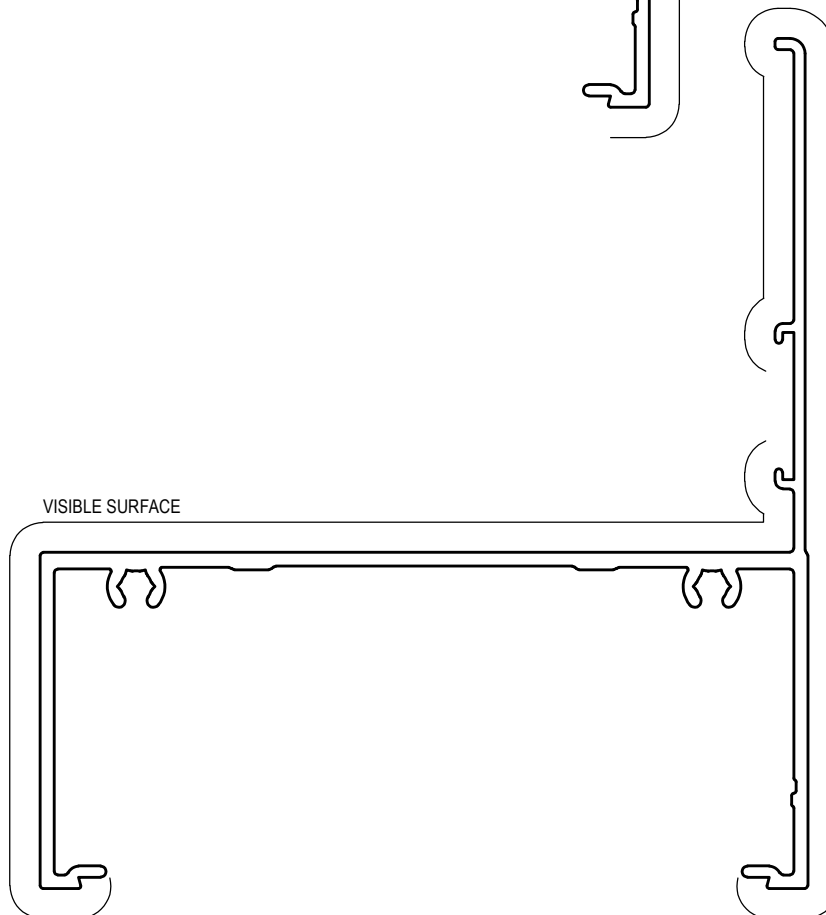
McARTHUR EVO
LOUVRE SILL

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

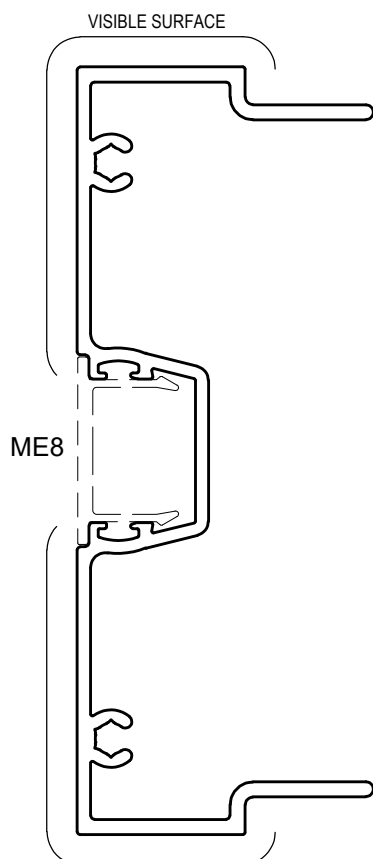
Anod. Per. 600

Paint Per. 335

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

NOTE:

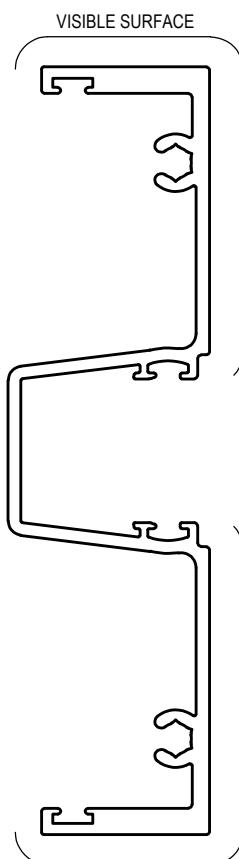
AF53, AF54, AF55 AND AF56 ARE ONLY TO BE USED TOGETHER.



ME10
MALE MULLION

Mass. 1.212 Kg/m
Anod. Per. 486
Paint Per. 127

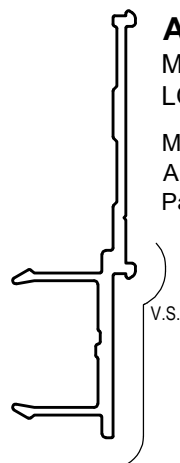
$I_{xx} = 600.8 \times 10^3 \text{ mm}^4$



ME11
FEMALE MULLION

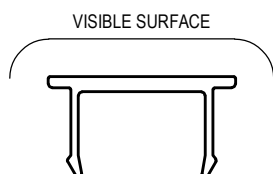
Mass. 1.205 Kg/m
Anod. Per. 453
Paint Per. 127

$I_{xx} = 545.0 \times 10^3 \text{ mm}^4$



AF54
McARTHUR EVO SLIM
LOUVRE ADAPTOR

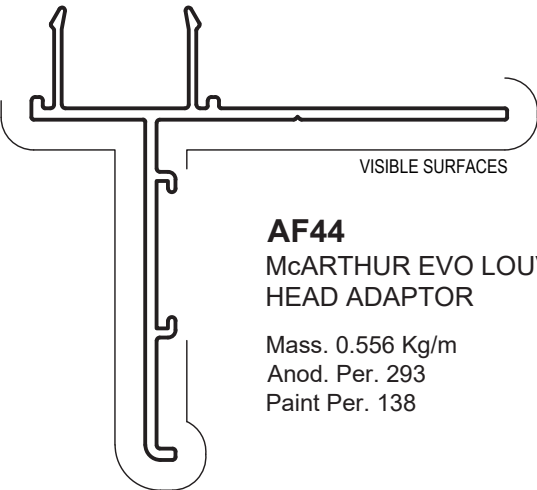
Mass. 0.337 Kg/m
Anod. Per. 171
Paint Per. 100



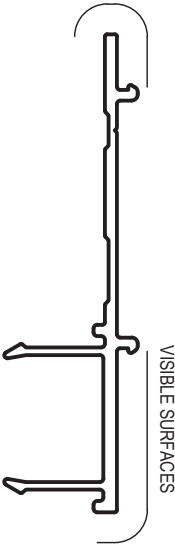
ME8
POCKET FILLER

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

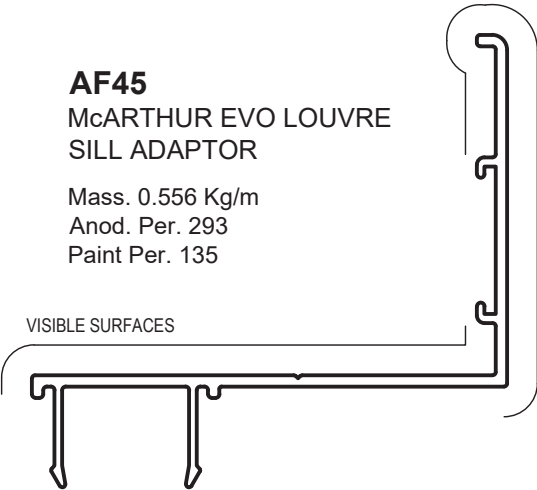
NOTE:
AF53, AF54, AF55 AND AF56 ARE ONLY TO BE USED TOGETHER.



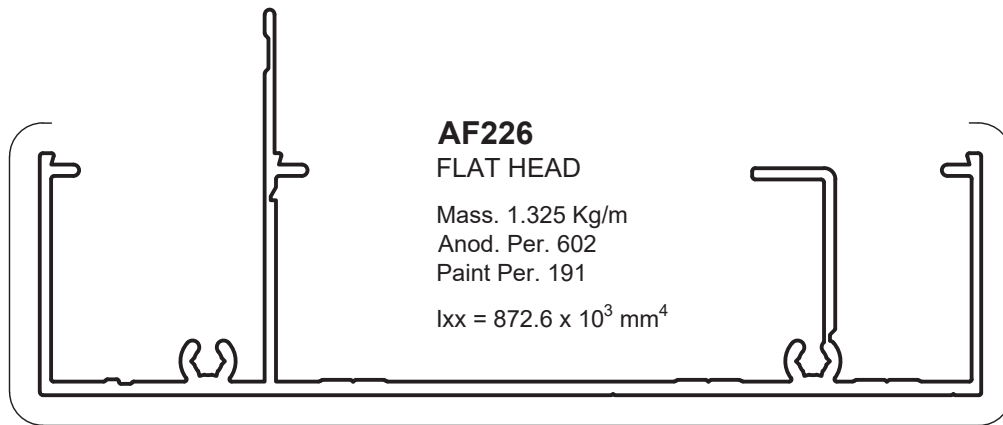
AF44
McARTHUR EVO LOUVRE
HEAD ADAPTOR
Mass. 0.556 Kg/m
Anod. Per. 293
Paint Per. 138



AF43
McARTHUR EVO
LOUVRE ADAPTOR
Mass. 0.377 Kg/m
Anod. Per. 197
Paint Per. 100

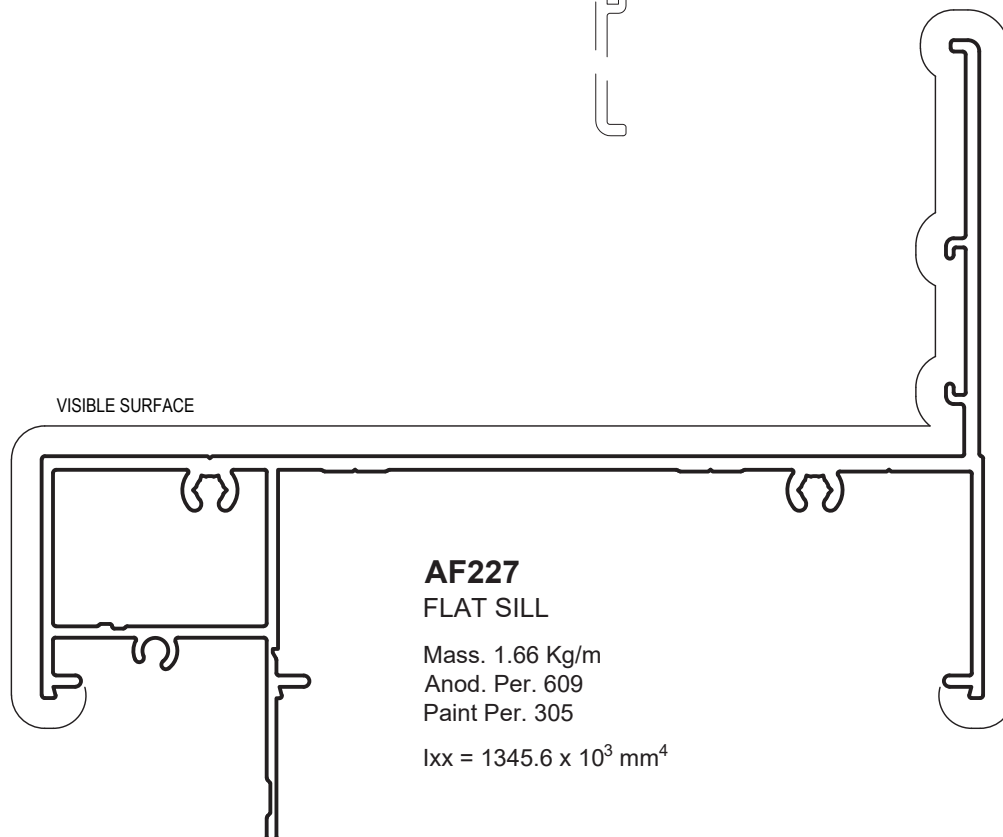


AF45
McARTHUR EVO LOUVRE
SILL ADAPTOR
Mass. 0.556 Kg/m
Anod. Per. 293
Paint Per. 135



VISIBLE SURFACE

AF6



VISIBLE SURFACE

Glazing Wedges

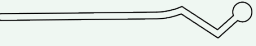
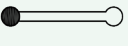
IMAGE	TO SUIT GAP	MATERIAL	PART #	DESCRIPTION
	2mm	PVC	1376045	GR42 GLAZING WEDGE (PURPLE) (2.5mm GAP) PVC x 200m ROLL
	3mm	PVC	1313055	GR43 GLAZING WEDGE (BROWN) (3mm GAP) PVC x 200m ROLL
		S/PRENE	1313063	GR43S GLAZING WEDGE (BROWN) (3mm GAP) S/PRENE x 200m ROLL
	4mm	PVC	1313056	GR44 GLAZING WEDGE (WHITE) (4mm GAP) PVC x 200m ROLL
		S/PRENE	1313064	GR44S GLAZING WEDGE (WHITE) (4mm GAP) S/PRENE x 200m ROLL
	4.5mm	PVC	1376149	GR1038 GLAZING WEDGE (4.5mm GAP) PVC x 150m ROLL
		S/PRENE	1376150	GR1038S GLAZING WEDGE (4.5mm GAP) S/PRENE x 150m 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
	6.5mm	PVC	1376147	GR638 GLAZING WEDGE (6.5mm GAP) PVC x 150m ROLL
		S/PRENE	1376148	GR638S GLAZING WEDGE (6.5mm 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	1376059	GR54 GLAZING WEDGE x 50m ROLL

6. Hardware & Components

Backing Gaskets

IMAGE	TO SUIT GAP	MATERIAL	PART #	DESCRIPTION
	2mm	PVC	1313052	GR36 BACKING GASKET - PUSH IN (2mm GAP) PVC x 200m ROLL
		S/PRENE	1313053	GR36S BACKING GASKET - PUSH IN (2mm GAP) S/PRENE x 200m ROLL
	2mm	PVC	1313079	CE36 CO-EXT BACKING GASKET (2mm GAP) PVC x 100m ROLL
		S/PRENE	1313080	CE36S CO-EXT BACKING GASKET (2mm GAP) S/PRENE x 100m ROLL
	4mm	PVC	1313054	GR37 BACKING GASKET - PUSH IN (4mm GAP) PVC x 175m ROLL
		S/PRENE	1313069	GR37S BACKING GASKET - PUSH IN (4mm GAP) S/PRENE x 175m ROLL
	4mm	PVC	1313081	CE37 CO-EXT BACKING GASKET (4mm GAP) PVC x 100m ROLL
		S/PRENE	1313082	CE37S CO-EXT BACKING GASKET (4mm GAP) S/PRENE x 100m ROLL
	6mm	PVC	1313074	GR49 BACKING GASKET - PUSH IN (6mm GAP) PVC x 100m ROLL
		S/PRENE	1313075	GR49S BACKING GASKET - PUSH IN (6mm GAP) S/PRENE x 100m ROLL
	6mm	PVC	1313083	CE49 CO-EXT BACKING GASKET (6mm GAP) PVC x 100m ROLL
		S/PRENE	1313084	CE49S CO-EXT BACKING GASKET (6mm GAP) S/PRENE x 100m ROLL
	8.5mm	S/PRENE	1313078	CE52S CO-EXT BACKING GASKET (8.5mm GAP) x 100m ROLL

Seals

IMAGE	PART #	FINISH	DESCRIPTION
	1376370	BLACK (034)	CE21 CO-EXT SILL FLAP x 100m ROLL
	1376742	BLACK (034)	CE57 CO-EXT LOUVRE WEATHER SEAL x 250m ROLL
	1376757		CE57 CO-EXT LOUVRE WEATHER SEAL x 1m
	1376359	BLACK (034)	CE48 CO-EXT BAFFLE (13.5mm HEIGHT) x 500m ROLL
	1376358		CE48FR CO-EXT BAFFLE (13.5mm HEIGHT) F/RES x 500m ROLL
	1376126	BLACK (034)	MS7 CO-EXT MULLION SEAL x 250m
	1376127		MS7 CO-EXT MULLION SEAL x 1m
	1376610	BLACK (034)	CE10 CO-EXT LOUVRE SEAL x 1.5m

6. Hardware & Components



Fasteners

SCREWS			
PART #	HEAD	DESCRIPTION	LOCATION
1382638	SQUARE #2	8g x 1 (25mm) 304SS SQ #2 PAN S/TAP SCREW x 1000	MAIN FRAME
1382046	PHILLIPS #2	8g x 1 (25mm) SS PHILLIPS PAN S/TAP SCREW x 500	
1382564	SQUARE #2	8g x 1 1/2 (38mm) 304SS SQUARE CSK W/WIND S/TAP x 500	GALLERY
1382016	PHILLIPS #2	8g x 1 1/2 (40mm) SS PHILLIPS CSK S/TAP x 500	
1383107	RESYTORK	10g x 1 (25mm) ZP RESYTORK U/CUT S/DRILL BLACK x 1000	SECURITY JAMB
1382688	SQUARE #2	10-16 x 19mm WAFER HEAD SQUARE SDS SS 304 x 1000 (2/500)	AF41 GALLERY COUPLER

DRIVER BIT		
PART #	DESCRIPTION	LOCATION
1391451	DRIVER BIT TORX T25 x 25mm	SECURITY JAMB SCREW

TAPE		
PART #	DESCRIPTION	LOCATION
1385622	TESA 51495 PV1 REINFORCED ALUM FOIL TAPE SILVER 48mm x 50m	AT EXPOSED VOIDS IN NON-SUB HEAD APPLICATIONS
1385623	TESA 51495 PV1 REINFORCED ALUM FOIL TAPE SILVER 72mm x 50m	
1385624	TESA 51495 PV1 REINFORCED ALUM FOIL TAPE SILVER 96mm x 50m	

6. Hardware & Components

Frame Joint Gaskets



Note: Suits AF218, AF219 & AF220

**AFL002 25 x 125mm JOINT GASKET
x 1**

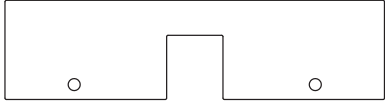
PART	1330056
FINISH	BLACK (034)
QTY	EACH



Note: Suits AF218, AF219 & AF220

**AFL002 25 x 125mm JOINT GASKET
ROLL x 1860**

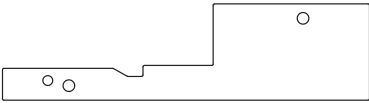
PART	1330059
FINISH	BLACK (034)
QTY	ROLL



Note: Suits AF212 & AF312

**AFL004 32 x 125mm FRAME JOINT
GASKET ROLL x 680 PER ROLL**

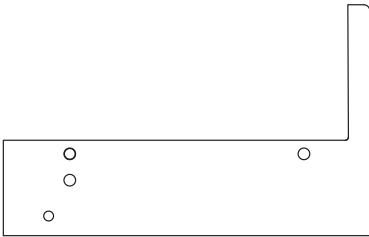
PART	1330081
FINISH	BLACK (034)
QTY	ROLL



Note: Suits AF215 & AF315

**AFL005 GLAZING SILL GASKET
ROLL x 340 PAIRS PER ROLL**

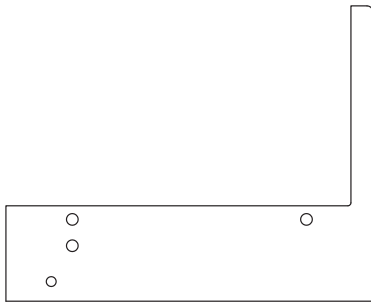
PART	1330083
FINISH	BLACK (034)
QTY	ROLL



Note: Suits AF202

**AFL006 SCREEN SILL GASKET ROLL
x 340 PAIRS PER ROLL**

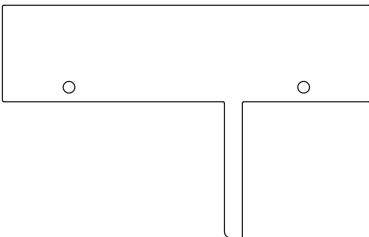
PART	1330085
FINISH	BLACK (034)
QTY	ROLL



Note: Suits AF203

**AFL007 SCREEN HIGH SILL GASKET
ROLL x 340 PAIRS PER ROLL**

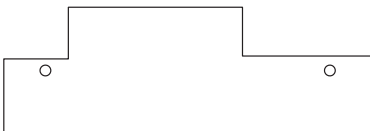
PART	1330087
FINISH	BLACK (034)
QTY	ROLL



Note: Suits AF200 & AF201

**AFL008 SCREEN HEAD GASKET
ROLL x 320 PAIRS PER ROLL**

PART	1330089
FINISH	BLACK (034)
QTY	ROLL



Note: Suits AF222 & AF223

**AFD004 125mm HEAD/SILL JOINT
GASKET x PAIR**

PART	1315108
FINISH	BLACK (034)
QTY	PAIR

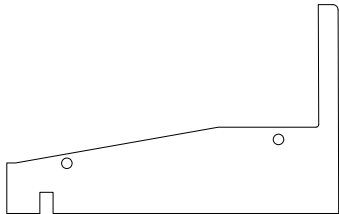


Note: Suits ME1

**FJG45 FRAME JOINT GASKET PVC
FOAM TAPE 45 x 1.6mm 45.7m**

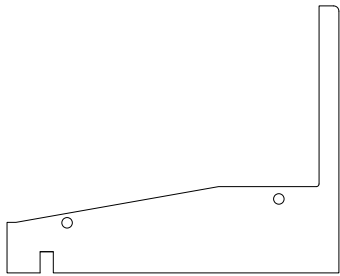
PART	1385512
FINISH	BLACK (034) / GREY (036)
QTY	ROLL

Frame Joint Gaskets



Note: Suits AF204

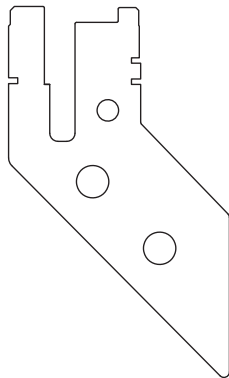
AFL014 SLOPED SILL GASKET ROLL x 270 PAIRS PER ROLL	
PART	1330060
FINISH	BLACK (034)
QTY	ROLL



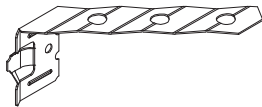
Note: Suits AF205

AFL016 SLOPED HIGH SILL GASKET ROLL x 215 PAIRS PER ROLL	
PART	1330063
FINISH	BLACK (034)
QTY	ROLL

Brick Lugs



AF + AFP 125mm BRICK LUG x 200	
PART	1315129
FINISH	NON SPECIFIED (099)
QTY	CARTON



BRICK LUG (NAIL FIN TYPE) D21	
PART	1315101
FINISH	NON SPECIFIED (099)
QTY	EACH

6. Hardware & Components

Accessories



AFL012
152mm RH 50mm RESTRICTOR CAP

PART	1330097
FINISH	RED (018)
QTY	EACH



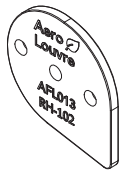
AFL012
152mm LH 50mm RESTRICTOR CAP

PART	1330095
FINISH	RED (018)
QTY	EACH



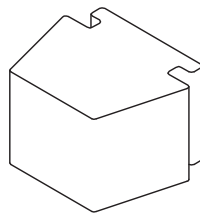
AFL013
102mm LH 50mm RESTRICTOR CAP

PART	1330098
FINISH	RED (018)
QTY	EACH



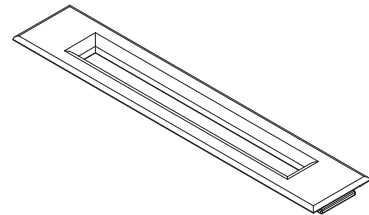
AFL013
102mm RH 50mm RESTRICTOR CAP

PART	1330099
FINISH	RED (018)
QTY	EACH



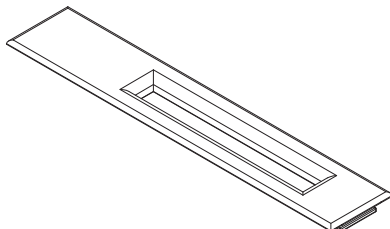
MCARTHUR FOAM DRAIN BLOCK
(20/PAD)

PART	1385590
FINISH	BLACK (034)
QTY	SET



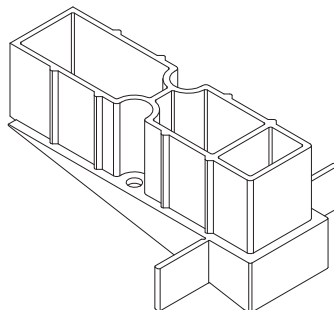
AFL011 AERO HANDLE COVER

PART	1330092	BLACK (034)
PART	1330093	WHITE (010)
PART	1330094	GREY (036)
QTY	EACH	



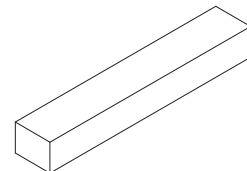
AFL018 AERO RESTRICTED
HANDLE COVER

PART	1330103	BLACK (034)
PART	1330104	GREY (036)
PART	1330105	WHITE (015)
QTY	EACH	



AFL009 MULLION ADAPTOR

PART	1330090
FINISH	BLACK (034)
QTY	EACH

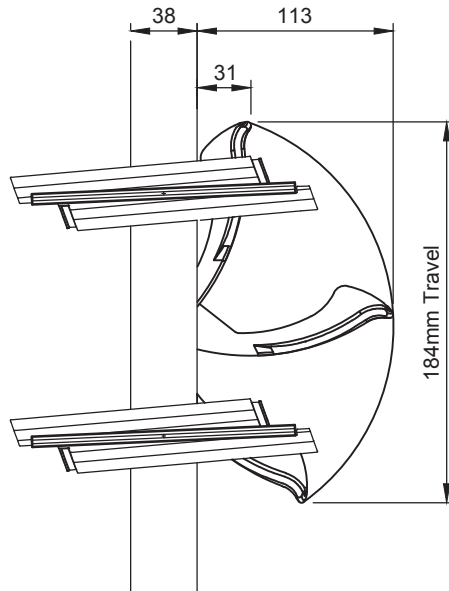


SETTING BLOCK 10 x 13 x 75mm
BAG OF 50

PART	1376762
FINISH	BLACK (034)
QTY	BAG

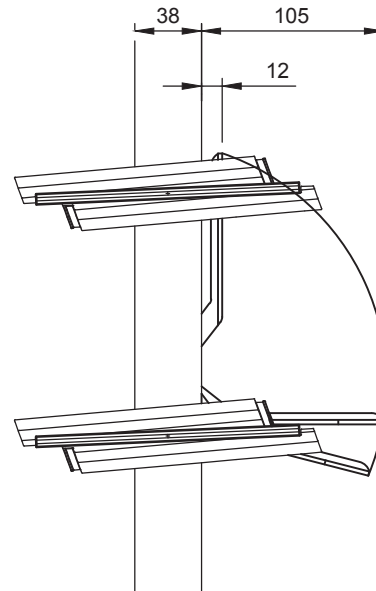
Assembly Detail page 11.5

Altair® Louvre Handles



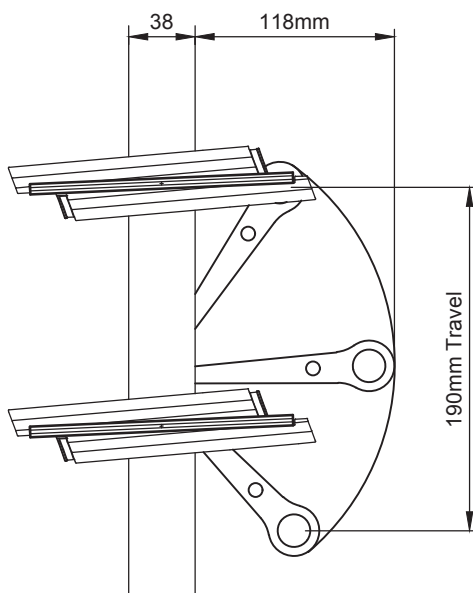
STANDARD HANDLE & LOCKING BAR

- Acetal Handle
- Ergonomic design for comfortable use



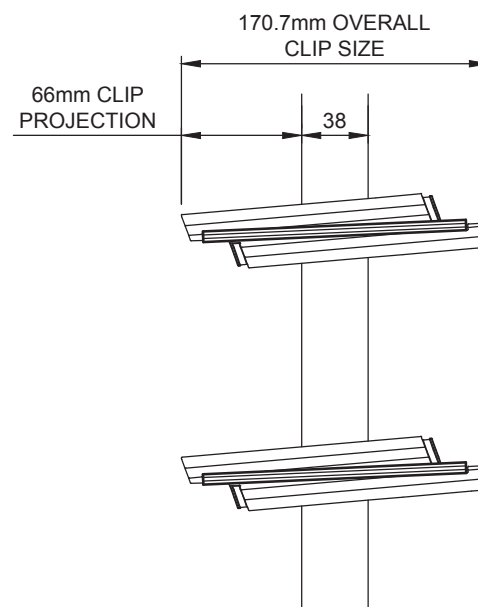
LOW PROFILE HANDLE

- Stainless steel handle
- Substitute for Standard Handle when inserting into bi-folding and sliding door panels



RING HANDLE (P13)

- Acetal handle for manual operation with Breezway Map Rod when installed out of arms reach

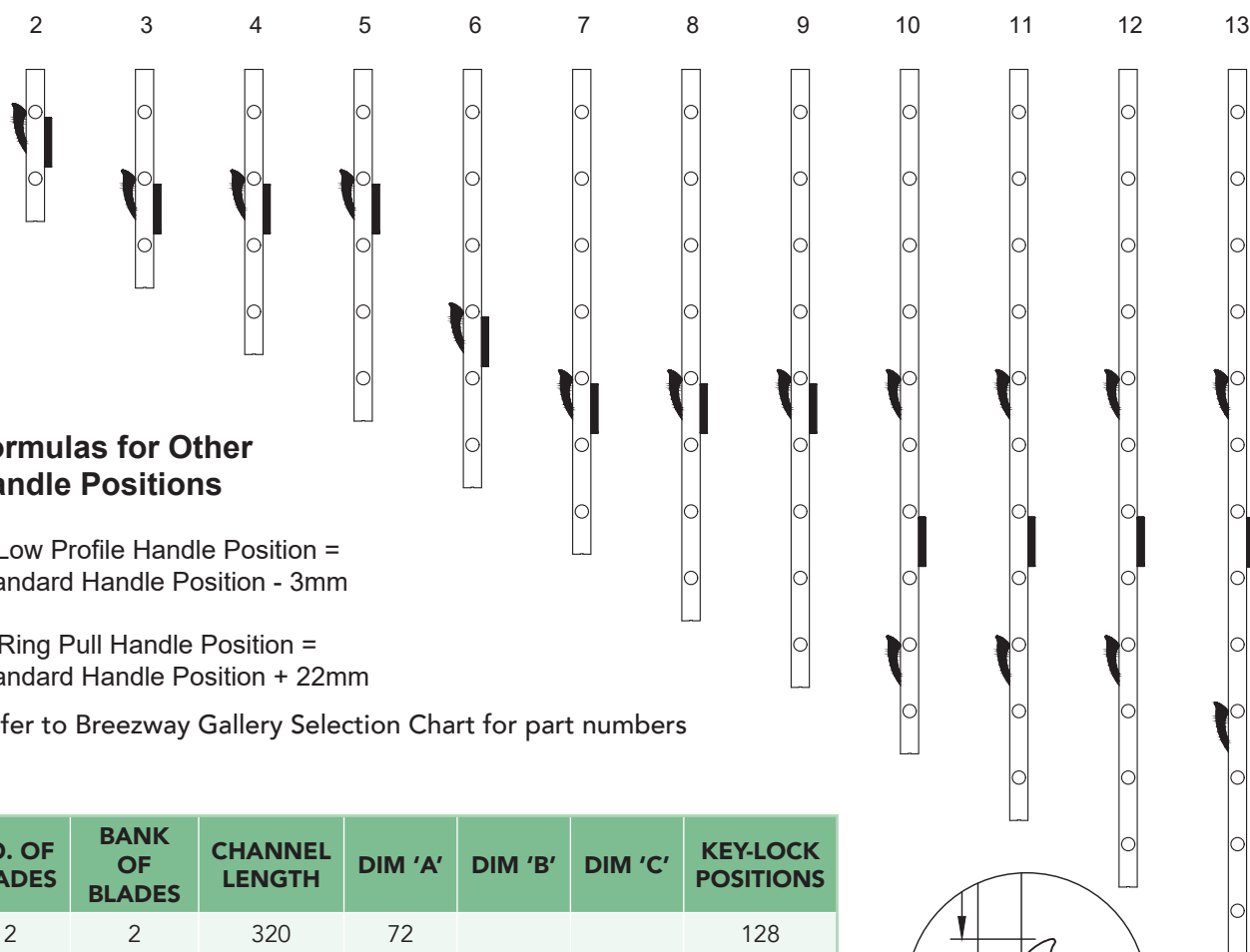


POWERLOUVRE GALLERY

- Concealed motors and connectors for use with Remote Window Control Systems (Keylock not available)

6. Hardware & Components

152mm Altair® Louvre - Standard Handle & Keylock Positions



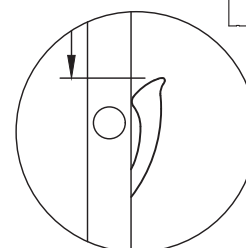
Formulas for Other Handle Positions

1. Low Profile Handle Position =
Standard Handle Position - 3mm

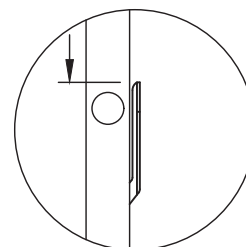
2. Ring Pull Handle Position =
Standard Handle Position + 22mm

Refer to Breezway Gallery Selection Chart for part numbers

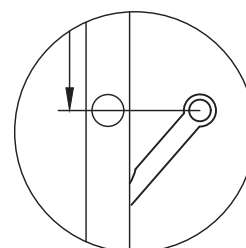
NO. OF BLADES	BANK OF BLADES	CHANNEL LENGTH	DIM 'A'	DIM 'B'	DIM 'C'	KEY-LOCK POSITIONS
2	2	320	72			128
3	3	460	212			268
4	4	600	212			268
5	5	740	212			268
6	6	880	492			548
7	7	1020	632			688
8	8	1160	632			688
9	9	1300	632			688
10	7, 3	1440	632	1192		968
11	7, 4	1580	632	1192		968
12	7, 5	1720	632	1192		968
13	8, 5	1860	632	1332		968
14	9, 5	2000	632	1472		1108
15	7, 8	2140	632	1612		1108
16	7, 9	2280	632	1612		1108
17	8, 9	2420	632	1752		1108
18	9, 9	2560	1052	1892		1528
19	9, 4, 6	2700	1052	1472	2312	1528
20	9, 6, 5	2840	1052	1752	2312	1808
21	9, 7, 5	2980	1052	1892	2452	1948



Standard Handle

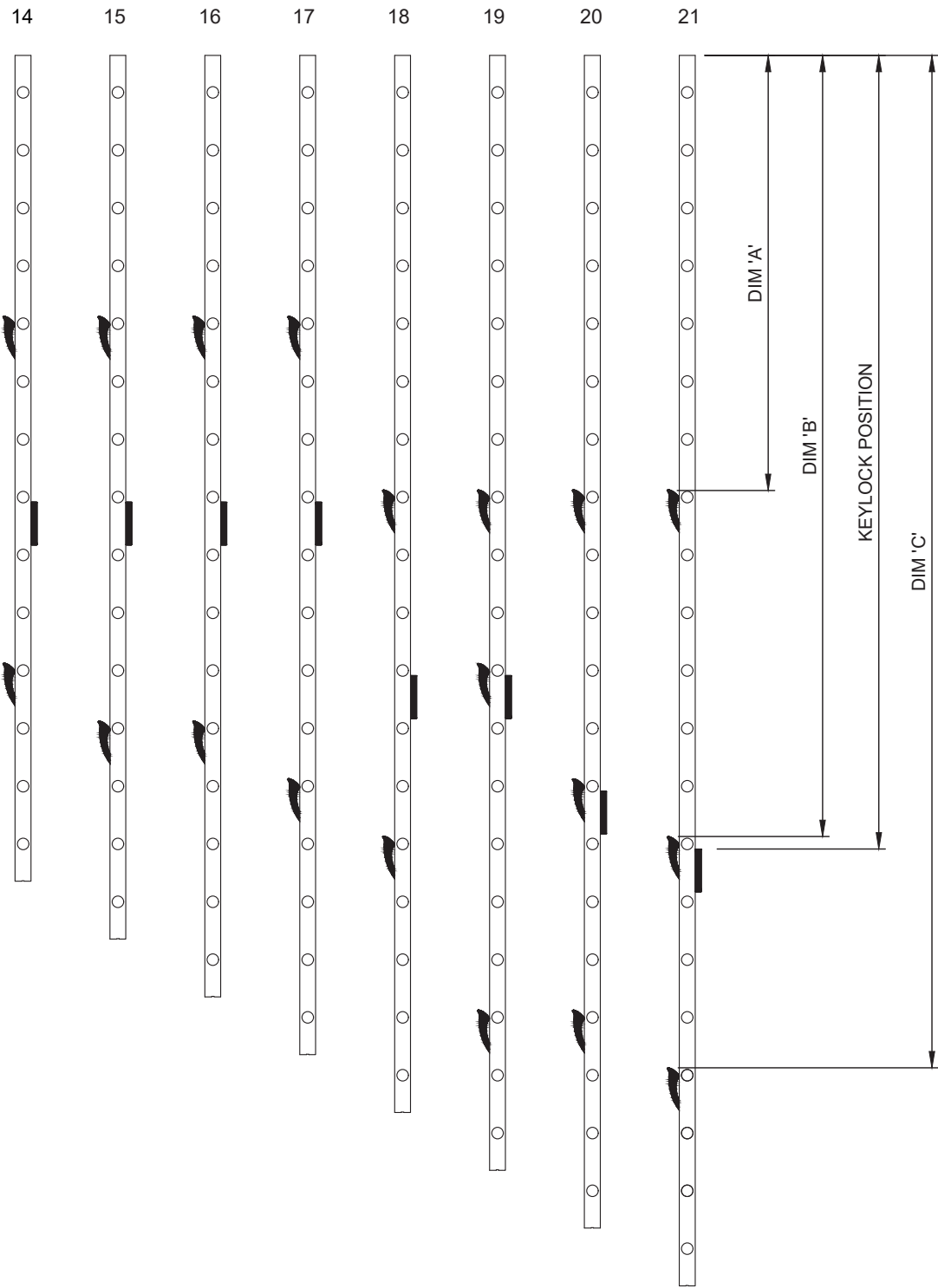


Low Profile Handle



Ring Pull Handle

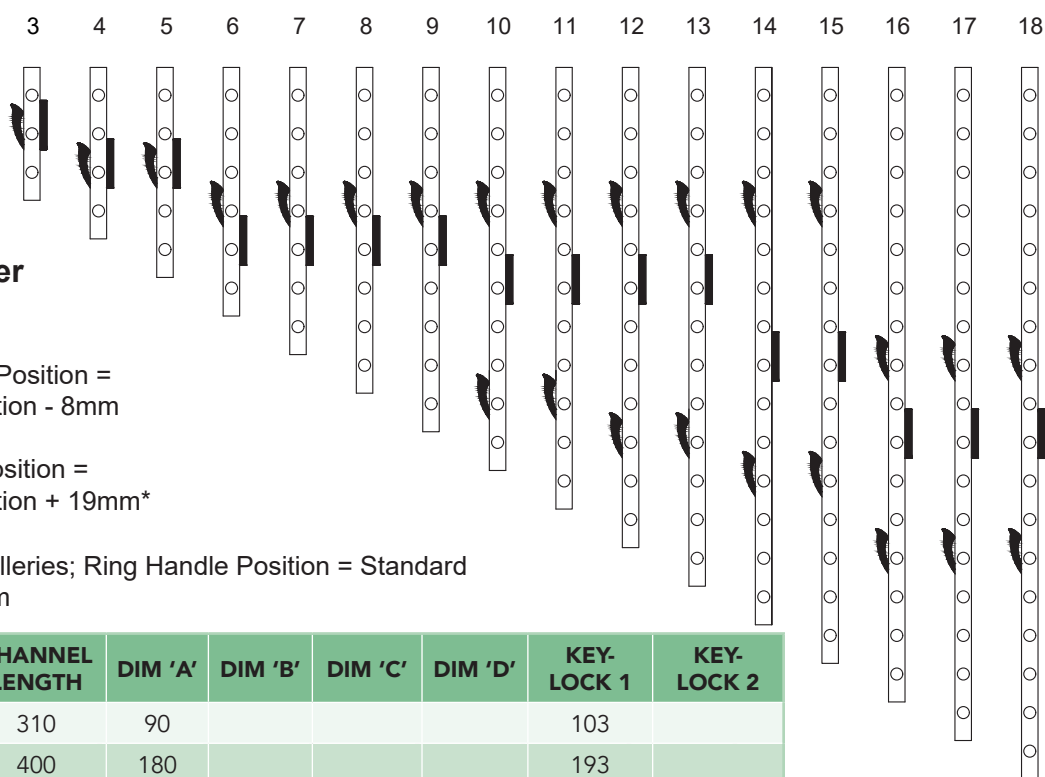
152mm Altair® Louvre - Standard Handle & Keylock Positions



6. Hardware & Components

102mm Altair® Louvre - Handle & Keylock Positions

Refer to Breezway Gallery Selection Chart for part numbers



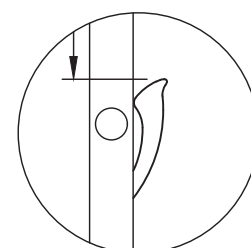
Formulas for Other Handle Positions

1. Low Profile Handle Position =
Standard Handle Position - 8mm

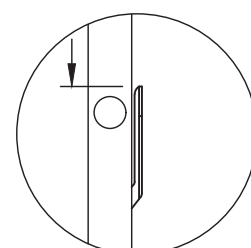
2. Ring Pull Handle Position =
Standard Handle Position + 19mm*

* For 3 and 4 Blade Galleries; Ring Handle Position = Standard Handle Position - 71mm

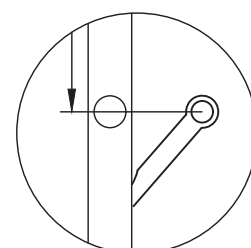
NO. OF BLADES	BANK OF BLADES	CHANNEL LENGTH	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	KEY-LOCK 1	KEY-LOCK 2
3	3	310	90				103	
4	4	400	180				193	
5	5	490	180				193	
6	6	580	270				373	
7	7	670	270				373	
8	8	760	270				373	
9	9	850	270				373	
10	6, 4	940	270	720			463	
11	6, 5	1030	270	720			463	
12	6, 6	1120	270	810			463	
13	6, 7	1210	270	810			463	
14	7, 7	1300	270	900			643	
15	7, 8	1390	270	900			643	
16	9, 7	1480	630	1080			823	
17	9, 8	1570	630	1080			823	
18	9, 9	1660	630	1080			823	
19	9, 5, 5	1750	630	990	1440		823	1273
20	9, 5, 6	1840	630	990	1530		823	1273
21	9, 5, 7	1930	630	990	1530		823	1273
22	9, 6, 7	2020	630	1080	1620		823	1453
23	9, 6, 8	2110	630	1080	1620		823	1453
24	9, 6, 9	2200	630	1080	1620		823	1453
25	9, 9, 7	2290	630	1080	1890		823	1633
26	9, 9, 8	2380	630	1080	1890		823	1633
27	9, 9, 9	2470	630	1080	1890		823	1633



Standard Handle



Low Profile Handle

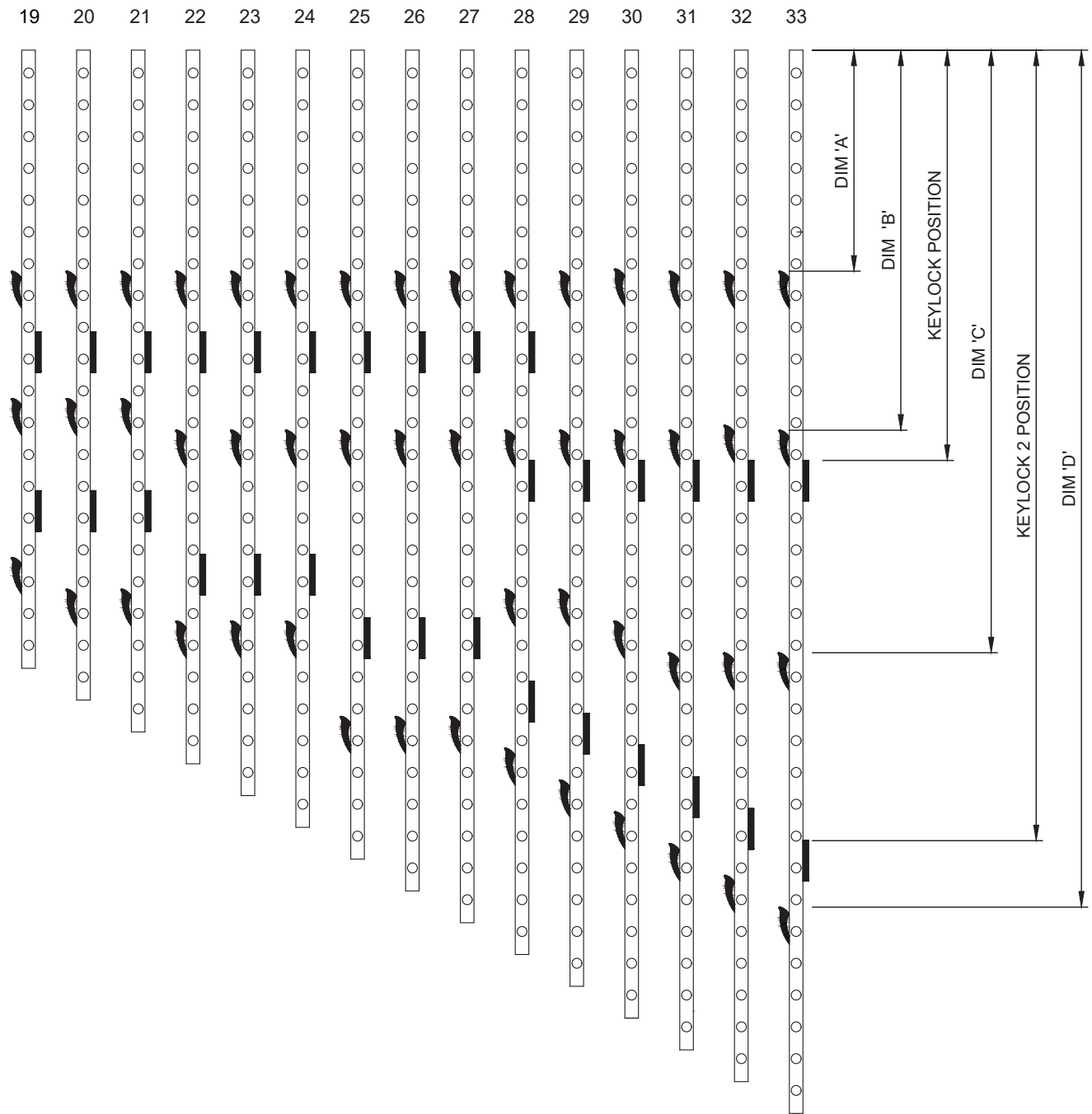


Ring Pull Handle

6. Hardware & Components

102mm Altair® Louvre - Handle & Keylock Positions

Refer to Breezway Gallery Selection Chart for part numbers



NO. OF BLADES	BANK OF BLADES	CHANNEL LENGTH	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	KEY-LOCK 1	KEY-LOCK 2
28	9, 6, 4, 9	2560	630	1080	1530	1980	1183	1813
29	9, 6, 5, 9	2650	630	1080	1530	2070	1183	1903
30	9, 7, 5, 9	2740	630	1080	1620	2160	1183	1993
31	9, 7, 6, 9	2830	630	1080	1710	2250	1183	2083
32	9, 7, 7, 9	2920	630	1080	1710	2340	1183	2173
33	9, 7, 8, 9	3010	630	1080	1710	2340	1183	2263

Altair® Powerlouvre® Control Units



POWERLOUVRE APPTIVATE CONTROL - DUAL CHANNEL

PART	1643113
FINISH	NOT SPECIFIED (099)
QTY	EACH (Operates up to 12 motors)

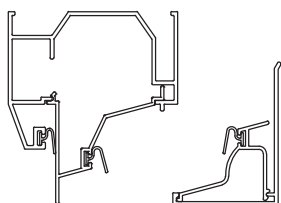
POWERLOUVRE APPTIVATE CONTROL - SINGLE CHANNEL

PART	1643112
FINISH	NOT SPECIFIED (099)
QTY	EACH (Operates up to 6 motors)

POWERLOUVRE 2 AMP TRANSFORMER

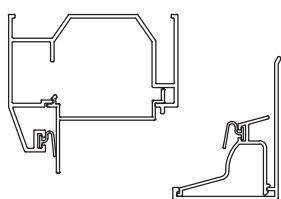
PART	1643114
FINISH	NOT SPECIFIED (099)
QTY	EACH

POWERLOUVRE STANDARD WEATHERSTRIP SET CTL



PART	1643102
FINISH	PEARL WHITE (010) SATIN BLACK (059) 25um CLEAR (093) CUSTOM FINISH (098) BREEZWAY STANDARD FINISH (B01) BREEZWAY SPECIAL FINISH (B02)
INCLUSIONS	POWERLOUVRE HEAD AND INSERT, BOTTOM WEATHERSTRIP, INSERT AND ALL SEALS
QTY	METRE - CUT TO LENGTH (Max 2.9m)

POWERLOUVRE EXTENDED WEATHERSTRIP SET CTL



PART	1643103
FINISH	PEARL WHITE (010) SATIN BLACK (059) 25um CLEAR (093) CUSTOM FINISH (098) BREEZWAY STANDARD FINISH (B01) BREEZWAY SPECIAL FINISH (B02)
INCLUSIONS	POWERLOUVRE HEAD AND INSERT, BOTTOM WEATHERSTRIP, INSERT AND ALL SEALS
QTY	METRE - CUT TO LENGTH (Max 2.9m)

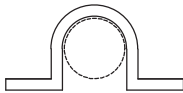
Altair® Louvre Components



ALTAIR® MAP ROD (2m, 3m, 4m LENGTHS)	
PART	1643110
FINISH	MILL (001)
QTY	LENGTH



TELESCOPIC MAP ROD 1.86m to 3.46m	
PART	1636239
FINISH	10UM CLR ANOD (002)
QTY	EACH



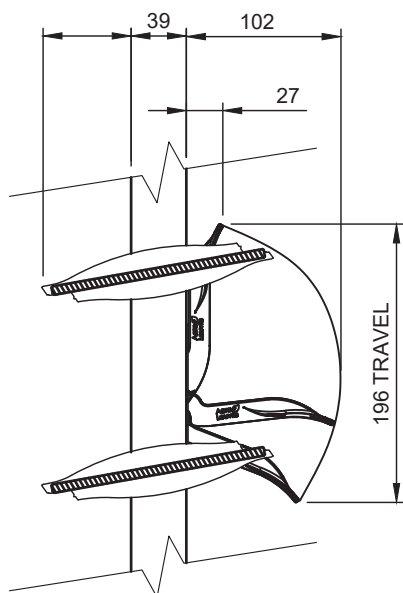
ALTAIR SECURITY BAR SADDLES	
PART	1643119
FINISH	NOT SPECIFIED (099)
QTY	EACH

6. Hardware & Components

Aero 152mm & 102mm Louvre Handles (Standard / Low Profile & Ring Pull)

62mm CLIP PROJECTION
FOR 152mm LOUVRE

36mm CLIP PROJECTION
FOR 102mm LOUVRE

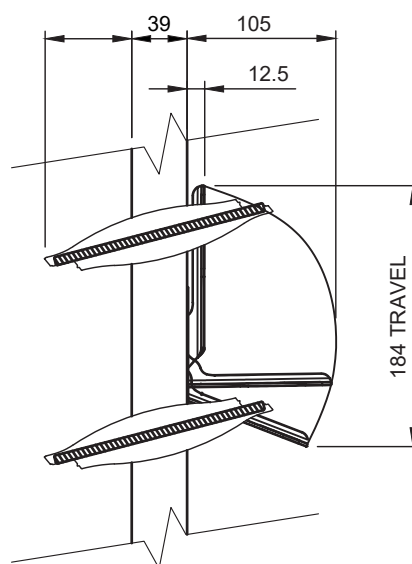


STANDARD HANDLE & LOCKING BAR

- Acetal Handle
- Ergonomic design for comfortable use

62mm CLIP PROJECTION
FOR 152mm LOUVRE

36mm CLIP PROJECTION
FOR 102mm LOUVRE

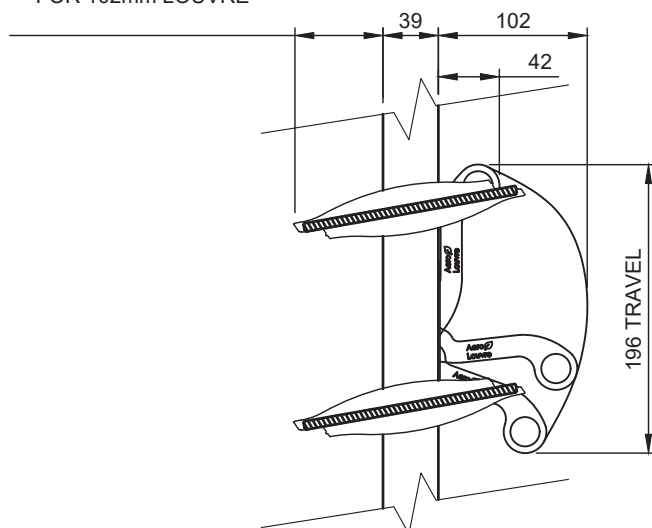


LOW PROFILE HANDLE

- Stainless steel handle
- Substitute for Standard Handle when inserting into bi-folding and sliding door panels

62mm CLIP PROJECTION
FOR 152mm LOUVRE

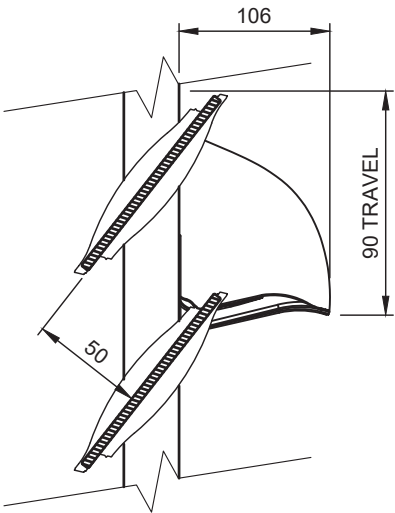
36mm CLIP PROJECTION
FOR 102mm LOUVRE



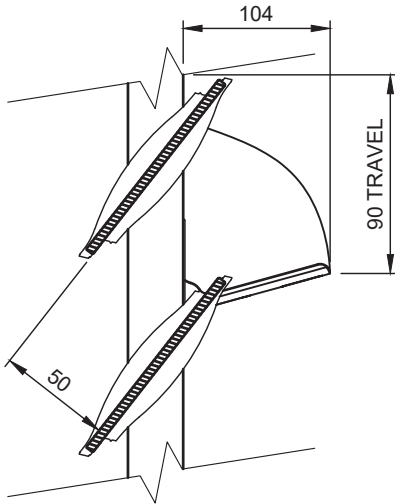
RING PULL HANDLE

- Acetal Handle
- Ergonomic design for comfortable use
- Easy map hook access for high to reach locations

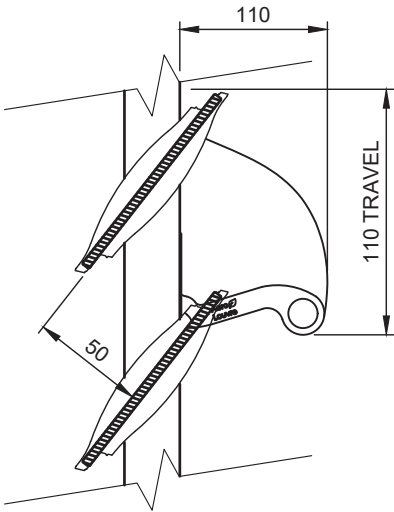
Aero 152mm & 102mm Louvre Standard, Low Profile & Ring Pull Handle - 50mm Restrictor



STANDARD HANDLE



LOW PROFILE HANDLE

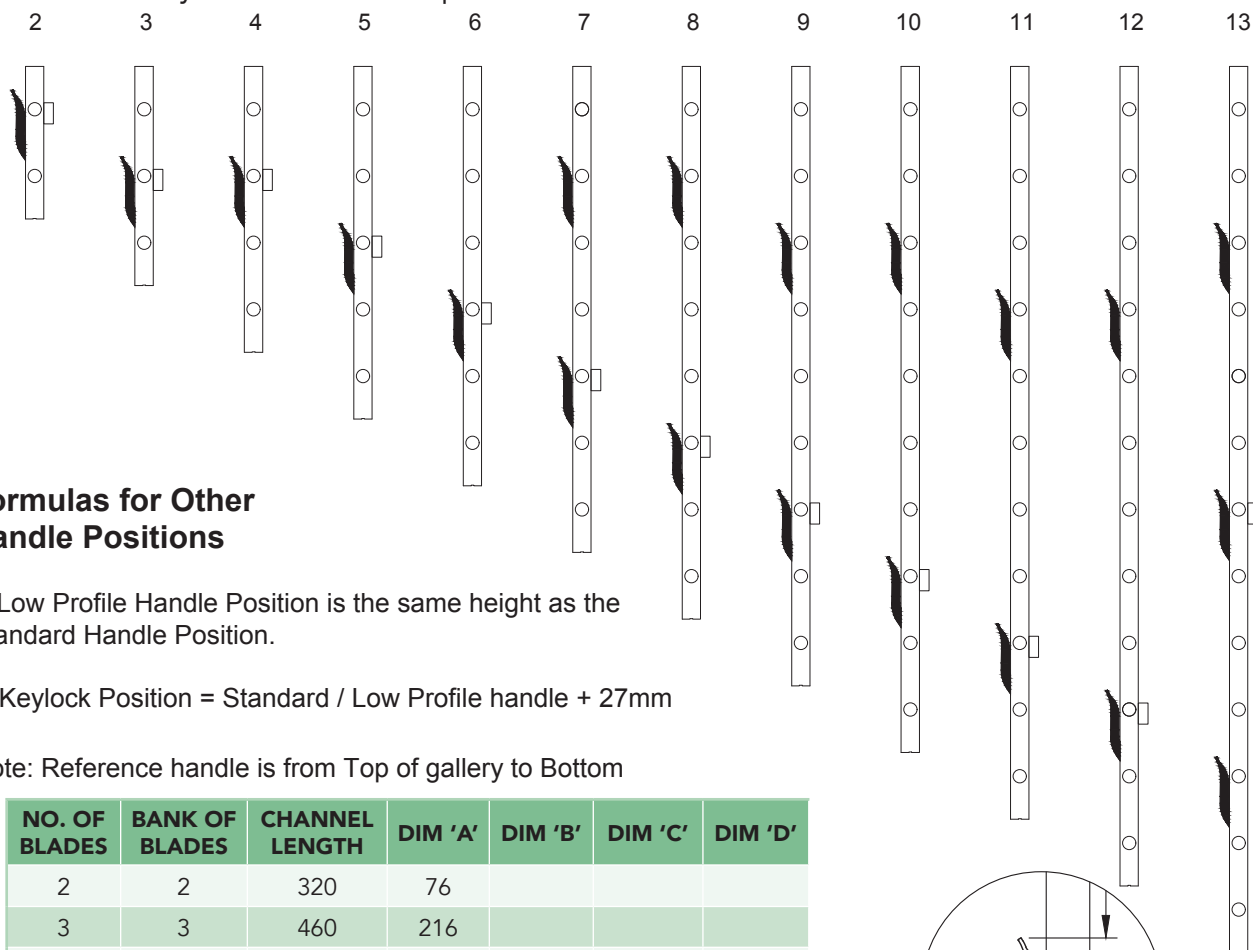


RING PULL HANDLE

6. Hardware & Components

152mm Aero Louvre Gallery - Handle positions

Refer to Aero Gallery Selection Chart for part numbers

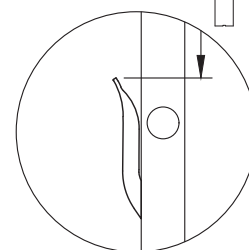


Formulas for Other Handle Positions

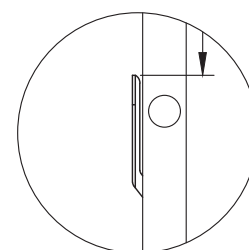
1. Low Profile Handle Position is the same height as the Standard Handle Position.
2. Keylock Position = Standard / Low Profile handle + 27mm

Note: Reference handle is from Top of gallery to Bottom

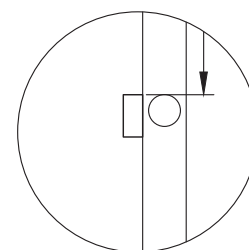
NO. OF BLADES	BANK OF BLADES	CHANNEL LENGTH	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'
2	2	320	76			
3	3	460	216			
4	4	600	195			
5	5	740	335			
6	6	880	475			
7	4,3	1020	195	615		
8	4,4	1160	195	755		
9	5,4	1300	335	895		
10	5,5	1440	335	1035		
11	6,5	1580	475	1175		
12	6,6	1720	475	1315		
13	5,4,4	1860	335	965	1455	
14	5,5,4	2000	335	1105	1595	
15	5,5,5	2140	335	1105	1735	
16	6,5,5	2280	475	1245	1875	
17	6,6,5	2420	475	1385	2015	
18	6,6,6	2560	475	1525	2155	
19	5,5,5,4	2700	335	1105	1735	2295
20	5,5,5,5	2840	335	1105	1735	2432
21	6,5,5,5	2980	475	1245	1875	2575



Standard Handle



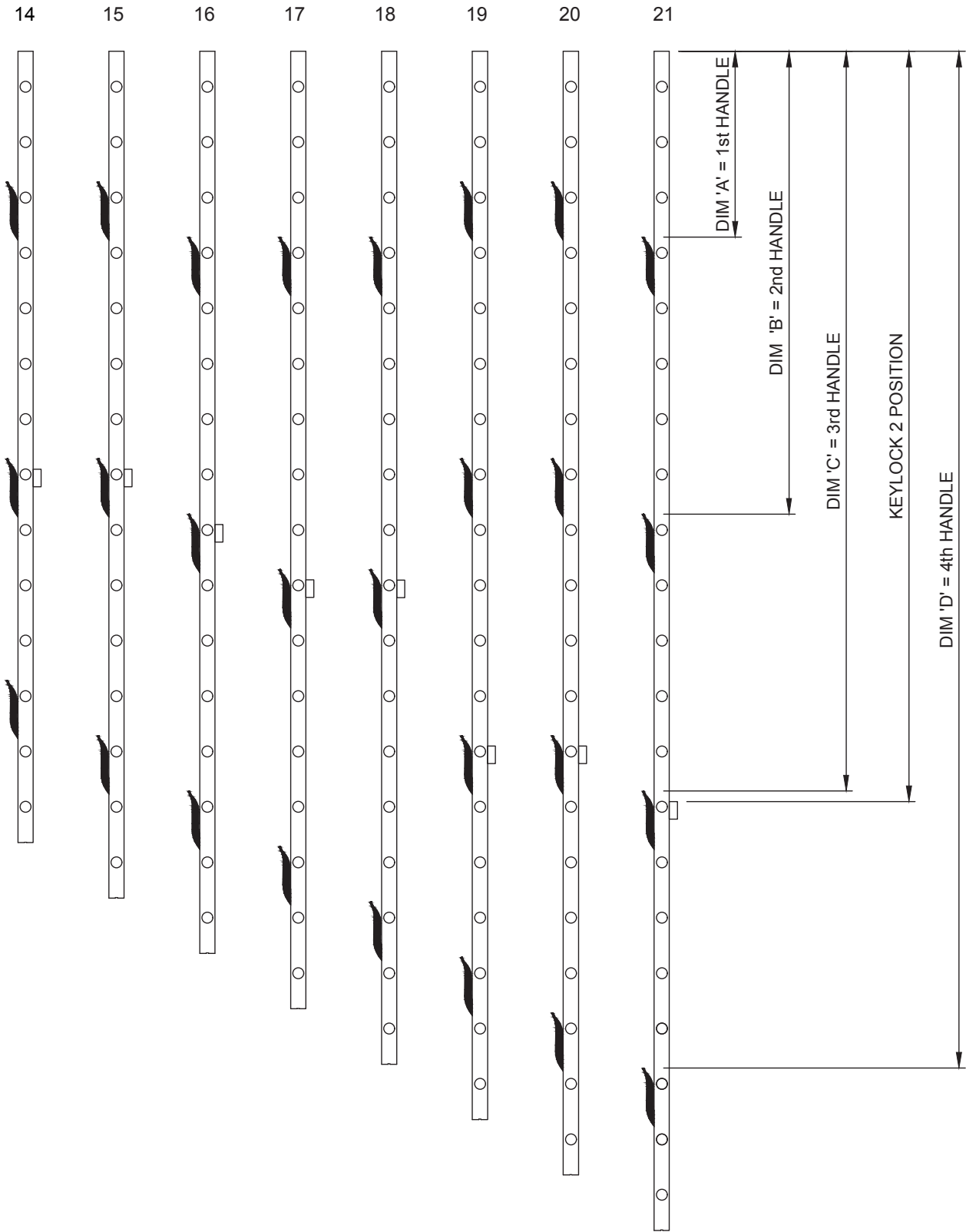
Low Profile Handle



Key Lock

152mm Aero Louvre Gallery - Handle positions

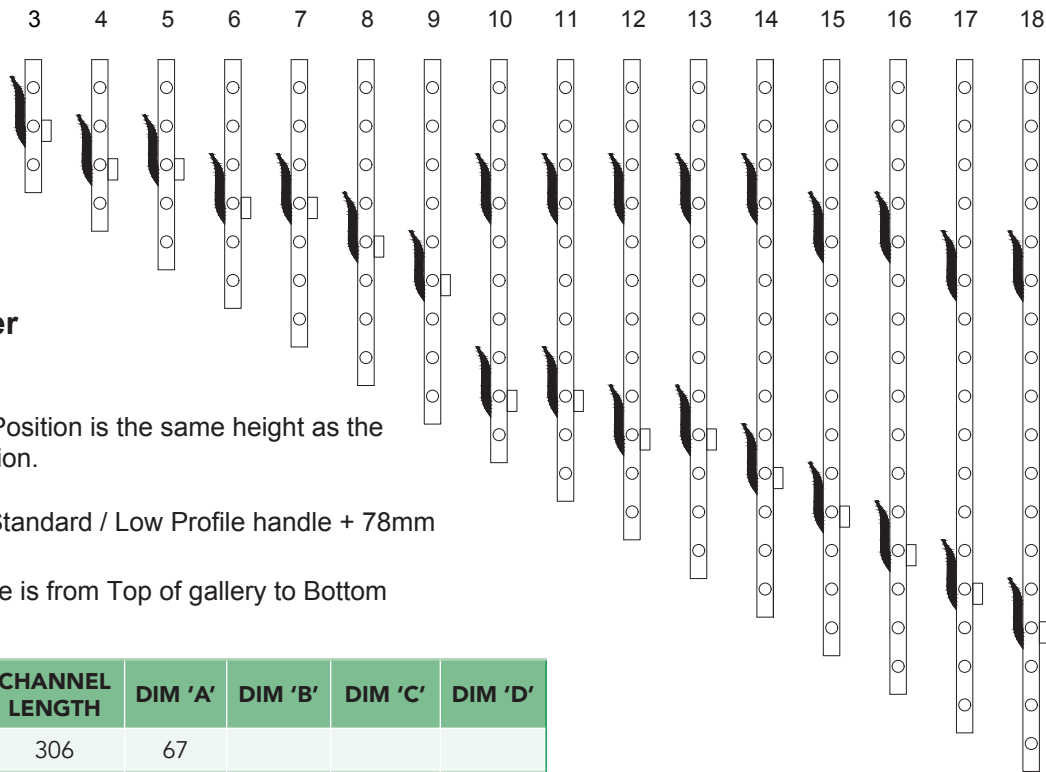
Refer to Aero Gallery Selection Chart for part numbers



6. Hardware & Components

102mm Aero Louvre Gallery - Handle positions

Refer to Aero Gallery Selection Chart for part numbers

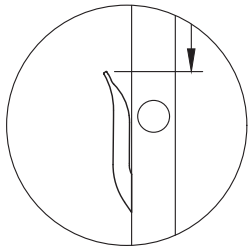


Formulas for Other Handle Positions

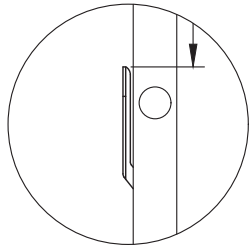
1. Low Profile Handle Position is the same height as the Standard Handle Position.
2. Keylock Position = Standard / Low Profile handle + 78mm

Note: Reference handle is from Top of gallery to Bottom

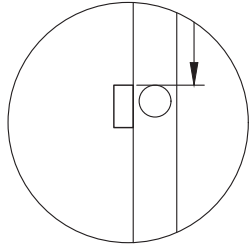
NO. OF BLADES	BANK OF BLADES	CHANNEL LENGTH	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'
3	3	306	67			
4	4	395	156			
5	5	484	156			
6	6	573	245			
7	7	662	245			
8	8	751	334			
9	9	840	423			
10	5,5	929	245	690		
11	6,5	1018	245	690		
12	6,6	1107	245	779		
13	7,6	1196	245	779		
14	7,7	1285	245	868		
15	8,7	1374	334	957		
16	8,8	1463	334	1046		
17	9,8	1552	423	1135		
18	9,9	1641	423	1224		
19	7,6,6	1730	334	868	1402	
20	7,7,6	1819	334	868	1491	
21	7,7,7	1908	334	957	1580	
22	8,7,7	1997	423	1046	1669	
23	8,8,7	2086	423	1136	1758	
24	8,8,8	2175	423	1136	1847	
25	9,8,8	2264	423	1225	1936	
26	9,9,8	2353	423	1225	1936	
27	9,9,9	2442	423	1225	2025	



Standard Handle



Low Profile Handle

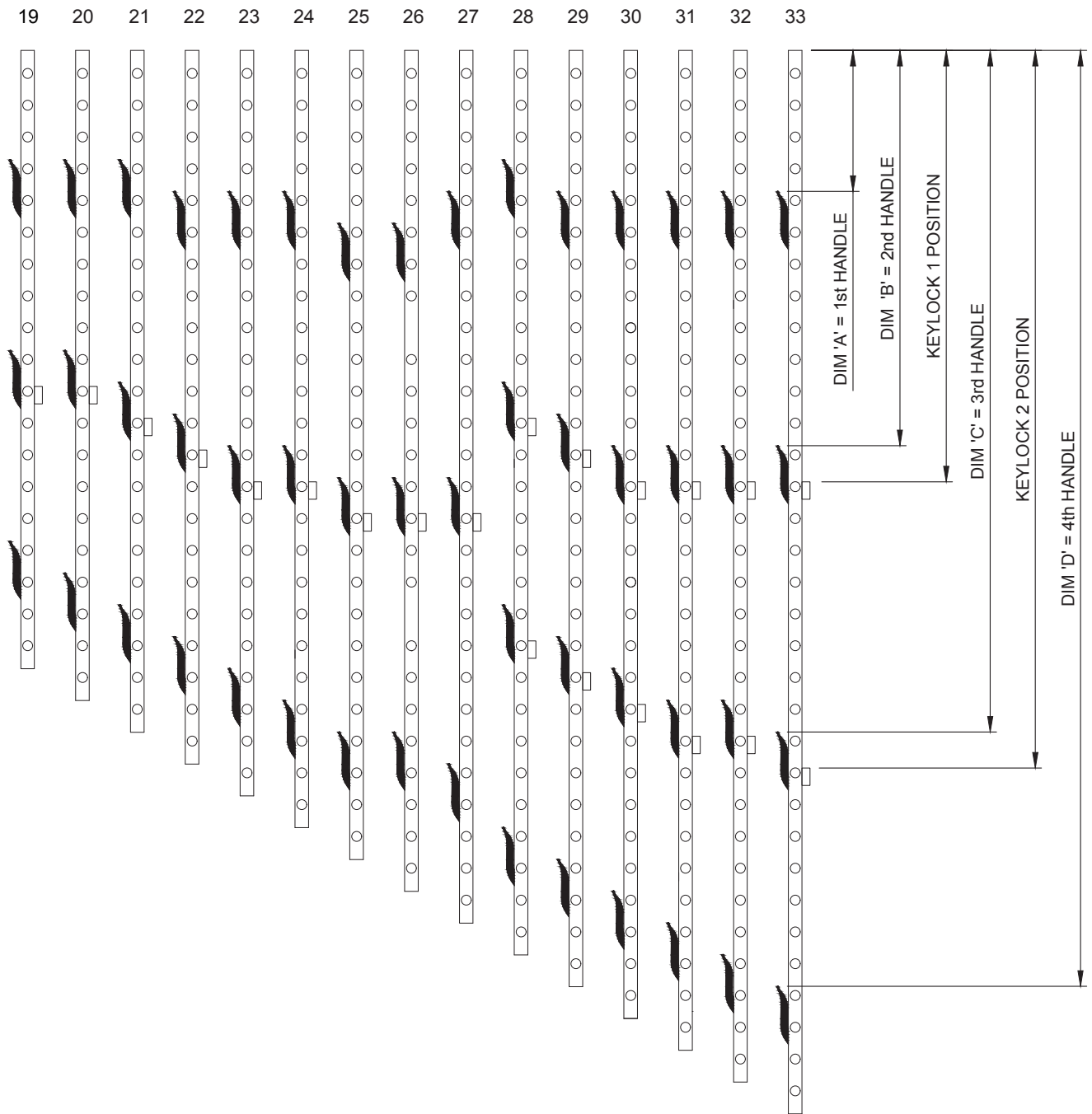


Key Lock

6. Hardware & Components

102mm Aero Louvre Gallery - Handle positions

Refer to Aero Gallery Selection Chart for part numbers



NO. OF BLADES	BANK OF BLADES	CHANNEL LENGTH	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'
28	7,7,7,7	2531	334	958	1581	2204
29	8,7,7,7	2620	423	1047	1670	2293
30	8,8,7,7	2709	423	1136	1759	2382
31	8,8,8,7	2798	423	1136	1848	2471
32	8,8,8,8	2887	423	1136	1848	2560
33	9,8,8,8	2976	423	1136	1937	2649

152mm & 102mm Glass Louvre Blades

152mm GLASS BLADES	ALSPEC CODE	GLASS FINISH
Clear Glass - Annealed 152mm CTL	1642013	Clear
Clear Glass - Toughened 152mm CTL	1642014	Clear, Grey
Clear Low E Glass - Annealed 152mm CTL	1642015	Clear
Clear Low E Glass - Toughened 152mm CTL	1642016	Clear
Energytech Glass - Annealed 152mm CTL	1642017	Clear, Grey
Energytech Glass - Toughened 152mm CTL	1642018	Clear, Grey
Tinted Glass - Annealed 152mm CTL	1642019	Grey, Green, Bronze, Dark Grey
Tinted Glass - Toughened 152mm CTL	1642020	Grey, Green, Bronze, Dark Grey
Evergreen Glass - Annealed 152mm CTL	1642021	Green
Evergreen Glass - Toughened 152mm CTL	1642022	Green
Soltech Neutral Glass - Annealed 152mm CTL	1642023	Neutral, Grey
Soltech Neutral Glass - Toughened 152mm CTL	1642024	Neutral
Sunergy Neutral Glass - Annealed 152mm CTL	1642025	Neutral
Sunergy Neutral Glass - Toughened 152mm CTL	1642026	Neutral
Satinlite Glass - Annealed 152mm CTL	1642027	White
Satinlite Glass - Toughened 152mm CTL	1642028	White
Satina Glass - Annealed 152mm CTL	1642029	Clear, White
Satina Glass - Toughened 152mm CTL	1642030	Grey, White

102mm GLASS BLADES	ALSPEC CODE	GLASS FINISH
Clear Glass - Annealed 102mm CTL	1642001	Clear G01
Clear Glass - Toughened 102mm CTL	1642002	Clear
Clear Low E Glass - Annealed 102mm CTL	1642003	Clear
Clear Low E Glass - Toughened 102mm CTL	1642004	Clear
Tinted Glass - Annealed 102mm CTL	1642005	Grey, Green, Bronze, Dark Grey
Tinted Glass - Toughened 102mm CTL	1642006	Grey, Green, Bronze, Dark Grey
Evergreen Glass - Annealed 102mm CTL	1642007	Green
Evergreen Glass - Toughened 102mm CTL	1642008	Green
Satinlite Glass - Annealed 102mm CTL	1642009	White
Satinlite Glass - Toughened 102mm CTL	1642010	White
Satina Glass - Annealed 102mm CTL	1642011	White, Grey
Satina Glass - Toughened 102mm CTL	1642012	White, Grey
Energytech Glass - Toughened 102mm CTL	1642047	Clear, Grey
Luminacloud Glass - Toughened 102mm CTL	1642051	White
Evantage Glass - Toughened 102mm CTL	1642052	Clear

Note:

- Refer page 6.22 & 6.23 for Louvre Blade and Extension Blade Cut Formulas.
- All Glass Louvre Blades are 6mm thick.
- The minimum glass extension blade height is 40mm. Any extensions requiring a lesser height requires a cut down Aluminium blade minimum 25mm in the same colour finish as the Gallery.

6. Hardware & Components

Breezway Stronghold® 152mm & 102mm Glass Louvre Blades

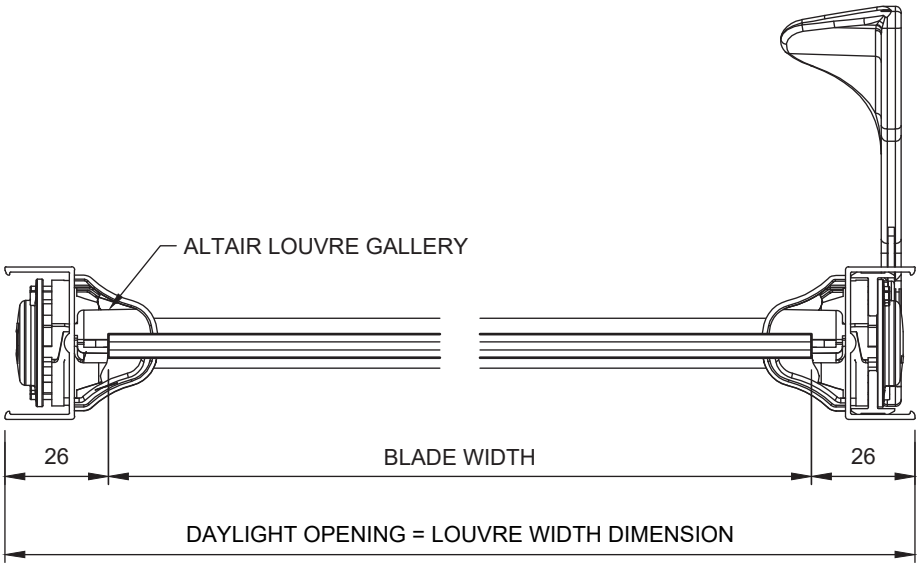
STRONGHOLD 152mm AND 102mm GLASS BLADES	ALSPEC CODE	GLASS FINISH
Stronghold Clear Glass - Toughened 152mm CTL	1642031	Clear, Grey
Stronghold Clear Glass - Toughened 102mm CTL	1642032	Clear, Grey
Stronghold Clear Low E Glass - Toughened 152mm CTL	1642033	Clear, Grey
Stronghold Clear Low E Glass - Toughened 102mm CTL	1642034	Clear
Stronghold Tinted Glass - Toughened 152mm CTL	1642035	Grey, Green, Bronze, Dark Grey
Stronghold Tinted Glass - Toughened 102mm CTL	1642036	Grey, Green, Bronze, Dark Grey
Stronghold Evergreen Glass - Toughened 152mm CTL	1642037	Green
Stronghold Evergreen Glass - Toughened 102mm CTL	1642038	Green
Stronghold Energytech Glass - Toughened 152mm CTL	1642039	Clear, Grey, Green
Stronghold Soltech Glass - Toughened 152mm CTL	1642040	Neutral, Grey
Stronghold Sunergy Glass - Toughened 152mm CTL	1642041	Neutral, Grey
Stronghold Satinlite Glass - Toughened 152mm CTL	1642042	White
Stronghold Satinlite Glass - Toughened 102mm CTL	1642043	White
Stronghold Satina Glass - Toughened 152mm CTL	1642044	Clear, Grey, White
Stronghold Satina Glass - Toughened 102mm CTL	1642045	Clear, Grey, White
Stronghold Energytech Glass - Toughened 102mm CTL	1642046	Clear, Grey
Stronghold Soltech Glass - Toughened 102mm CTL	1642048	Neutral, Grey
Stronghold Evantage Glass - Toughened 102mm CTL	1642049	Clear
Stronghold Evantage Glass - Toughened 152mm CTL	1642053	Clear, Grey
Stronghold Luminaccloud Glass - Toughened 152mm CTL	1642054	White
Stronghold Super Grey Glass - Toughened 152mm CTL	1642055	Grey

Note:

- Refer page 6.22 for Louvre Blade Cut Formulas.
- All Glass Louvre Blades are 6mm thick.
- The minimum glass extension blade height is 40mm. Any extensions requiring a lesser height requires a cut down Aluminium blade minimum 25mm in the same colour finish as the Gallery.
- Stronghold glass blades are supplied with holes at each end of the blades to suit Stronghold Galleries.

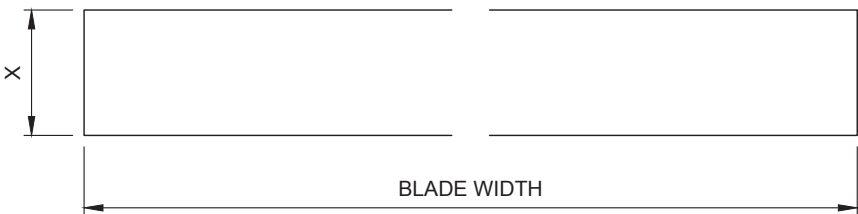
Breezway Louvre Blade and Extension Blade Cut Formulas

LOUVRE BLADE CUT FORMULAS	
Glass, Aluminium and Rebated Timber Blades	Blade Length = Daylight Opening - 52mm
Straight Cut Timber Blades	Blade Length = Daylight Opening - 72mm
Stonghold Blades	Blade Length = Daylight Opening - 48mm



Refer to page 2.1 for maximum glass spans

EXTENSION BLADE CUT FORMULAS - MANUALLY OPERATED	
Glass and Aluminium Blades	$X = \text{Channel Extension Height} + 20\text{mm}$
Timber Blades	$X = \text{Channel Extension Height} + 24\text{mm}$
EXTENSION BLADE CUT FORMULAS - POWERLOUVRE® OPERATED	
Glass and Aluminium Blades	$X = \text{Channel Extension Height} + 15\text{mm}$
Timber Blades	$X = \text{Channel Extension Height} + 19\text{mm}$



NOTE: ALLOWABLE TOLERANCE = +/-0.6mm

FOR ALLOWABLE LENGTH OF BLADES REFER TO AS 1288.

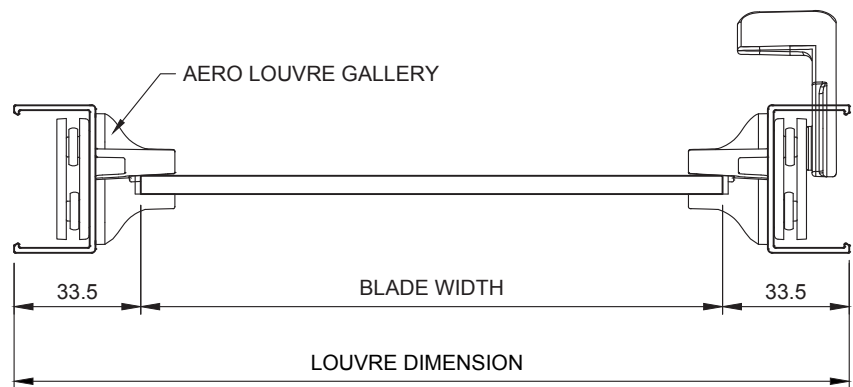
Note:

- The minimum glass extension blade height is 40mm. Any extensions requiring a lesser height requires a cut down Aluminium blade minimum 25mm in the same colour finish as the Gallery.

6. Hardware & Components

Aero Louvre Blade and Extension Blade Cut Formulas

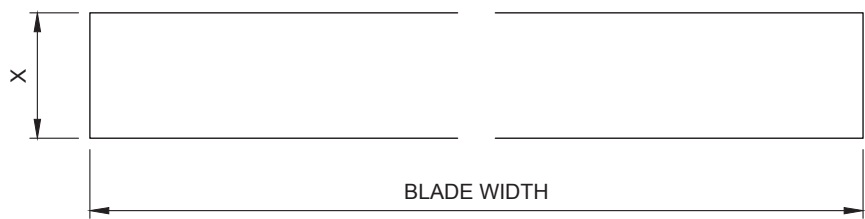
LOUVRE BLADE CUT FORMULAS	
Glass, Aluminium Blades	Blade Length = Daylight Opening - 67mm



Refer to page 2.1 for maximum glass spans

Note: Vertical glass edge must have even clearance both sides when assembled

EXTENSION BLADE CUT FORMULAS - MANUALLY OPERATED	
Glass & Aluminium Blades	$X = \text{Channel Extension Height} + 20\text{mm}$



NOTE: ALLOWABLE TOLERANCE = +/-0.6mm

FOR ALLOWABLE LENGTH OF BLADES REFER TO AS 1288.

Note:
- The minimum glass extension blade height is 40mm. Any extensions requiring a lesser height requires a cut down Aluminium blade minimum 25mm in the same colour finish as the Gallery.

Ventus Automated Hardware

Ventus Louvre

Pleased refer to Alspec Product Guide for hardware information and selection



RING PULL HANDLE

The perfect choice for the high and hard to reach galleries, Ring Pull can be operated by hand or an extension pole.



LOW PROFILE HANDLE

Providing the user an option for a Low profile handle and ring pull in one. This handle is perfectly suited to galleries with blinds or curtains installed or high out of reach windows that require a hook rod to operate.



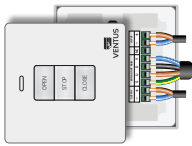
MANUAL

AUTO LOUVRES

The Auto Louvre system allows users to open and close the Louvres with a remote, wall switch or Cbus/BMS connection. The motor is hidden in the Gallery framing and connected by a plug and play control unit powered by a 24V DC power pack.



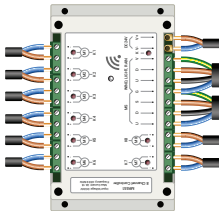
AUTOMATED



1 Channel Controller



4 Pin Plugs
(Accessories)



8 Channel Controller



2 Pin Plugs
(Power and Motors)

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

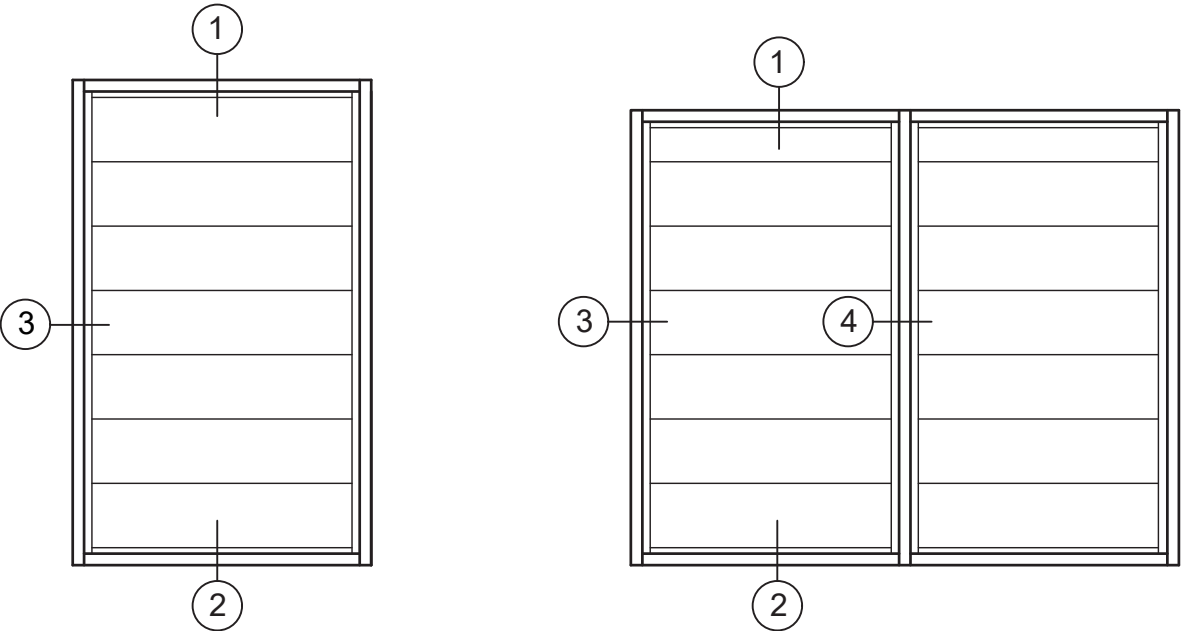
- Premium 100% silicone
- UV Stable
- 2-5 minute skin time
- Flexible + 25%
- No slump

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

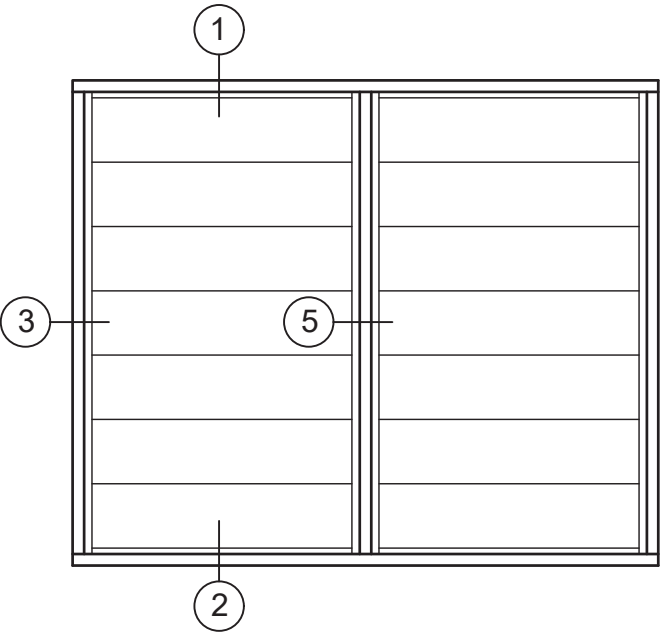
6. Hardware & Components

Silicone Product Codes

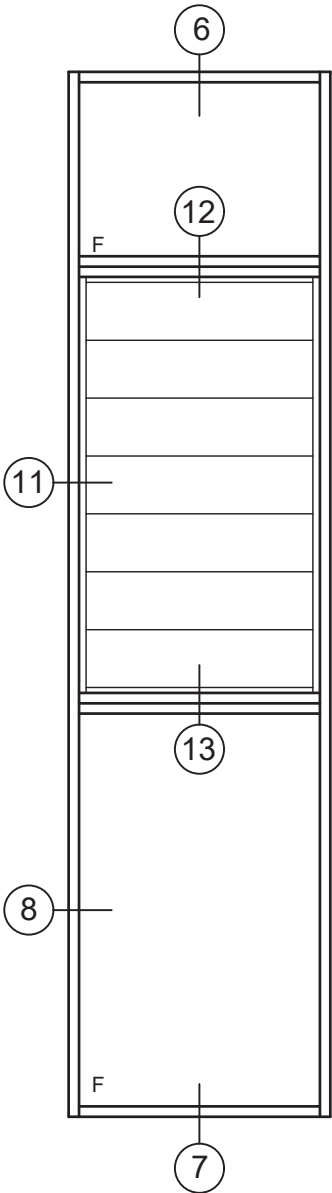
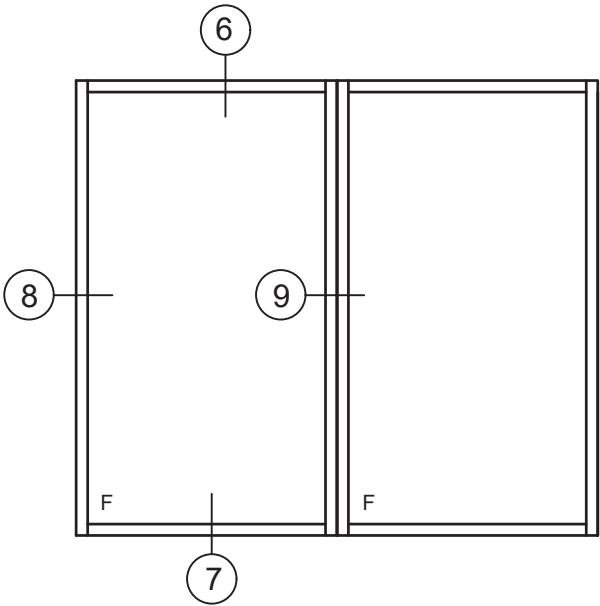
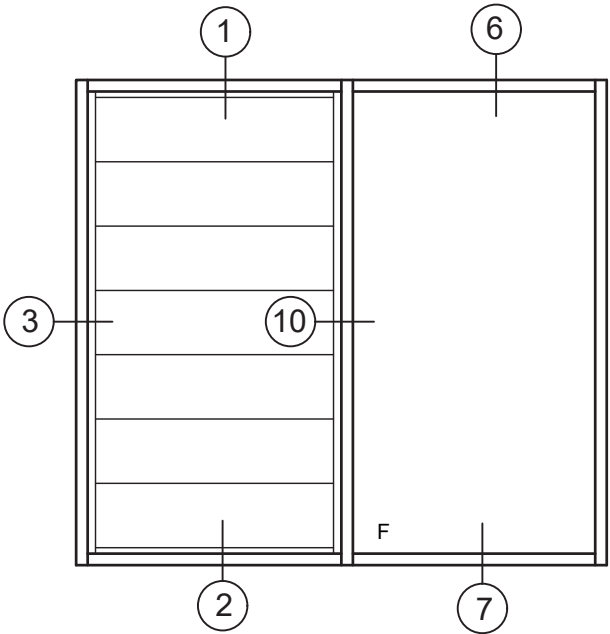
Product Category	Item No.	Alspec Part No.	Description	Finish	Pack
ALSPEC 100%	1	1386113	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	ALMOND IVORY	CARTRIDGE
	2	1386114	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	ALUMINIUM	CARTRIDGE
	3	1386105	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	BLACK	CARTRIDGE
	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



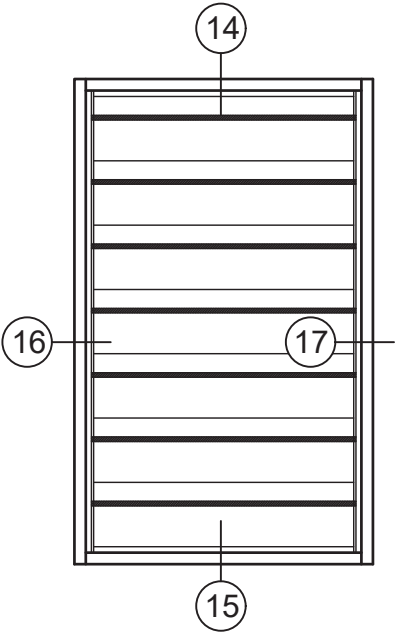
RUN THROUGH HEAD AND SILL OPTION



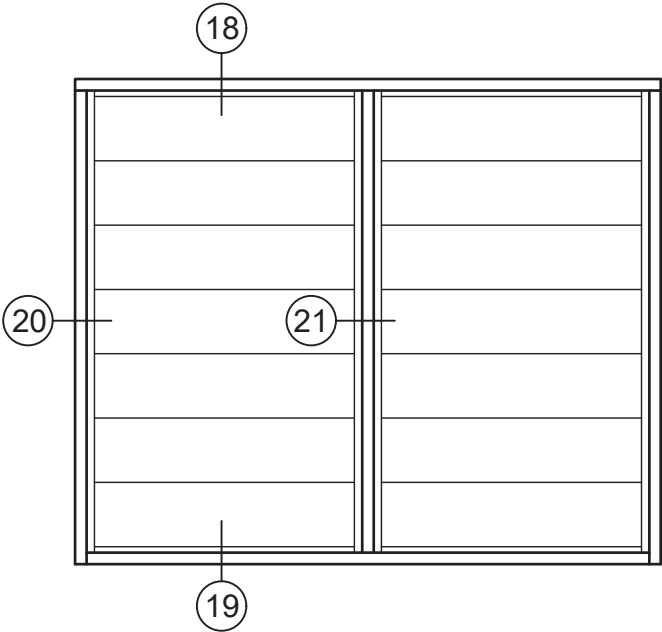
7. Typical Elevations



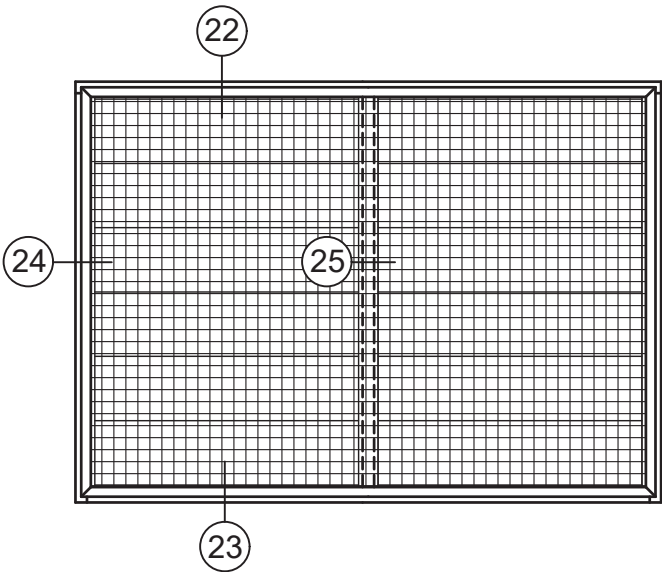
7. Typical Elevations



SECURITY BAR

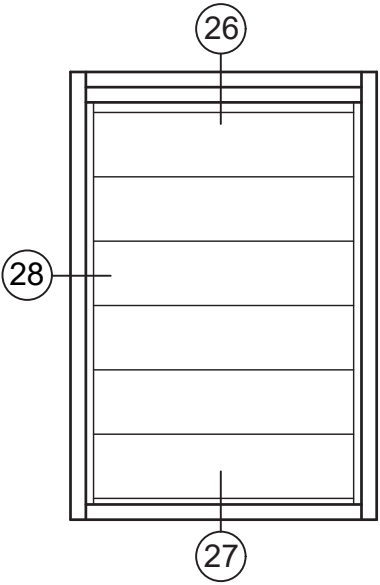


50mm FRAME

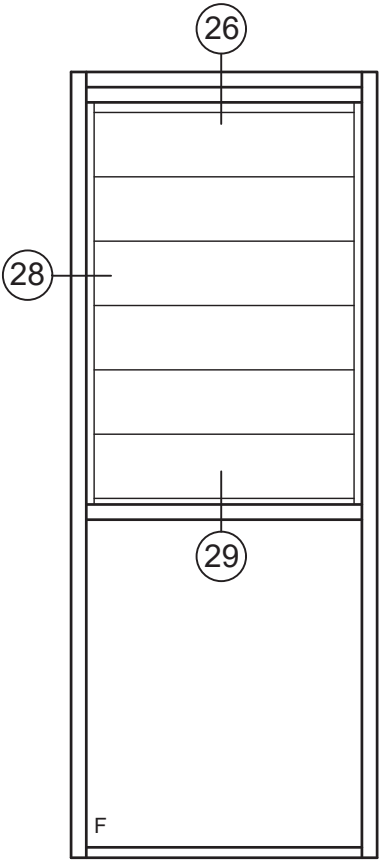


50mm FRAME WITH BUILDOUT

7. Typical Elevations



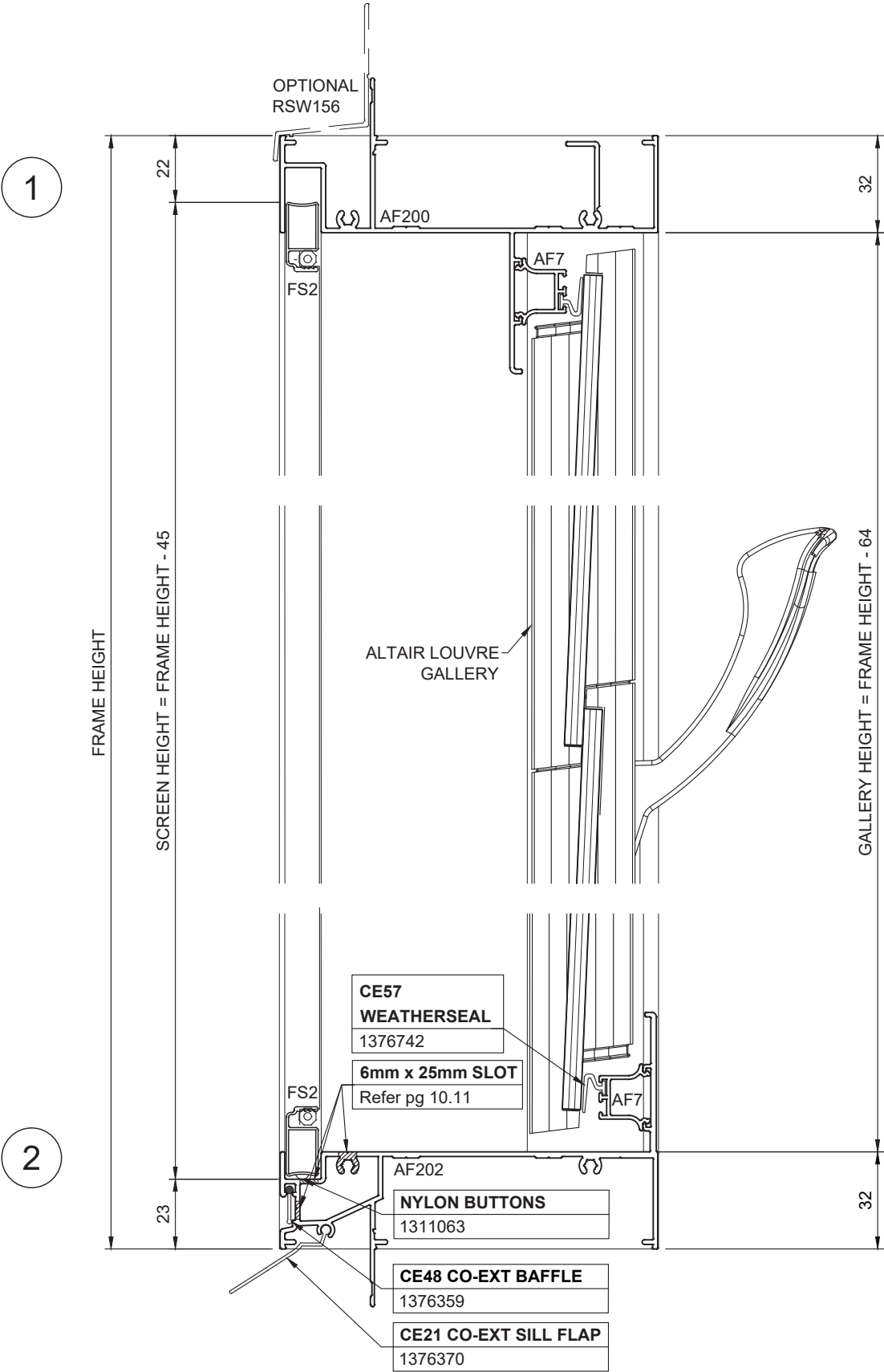
McARTHUR EVO



McARTHUR EVO

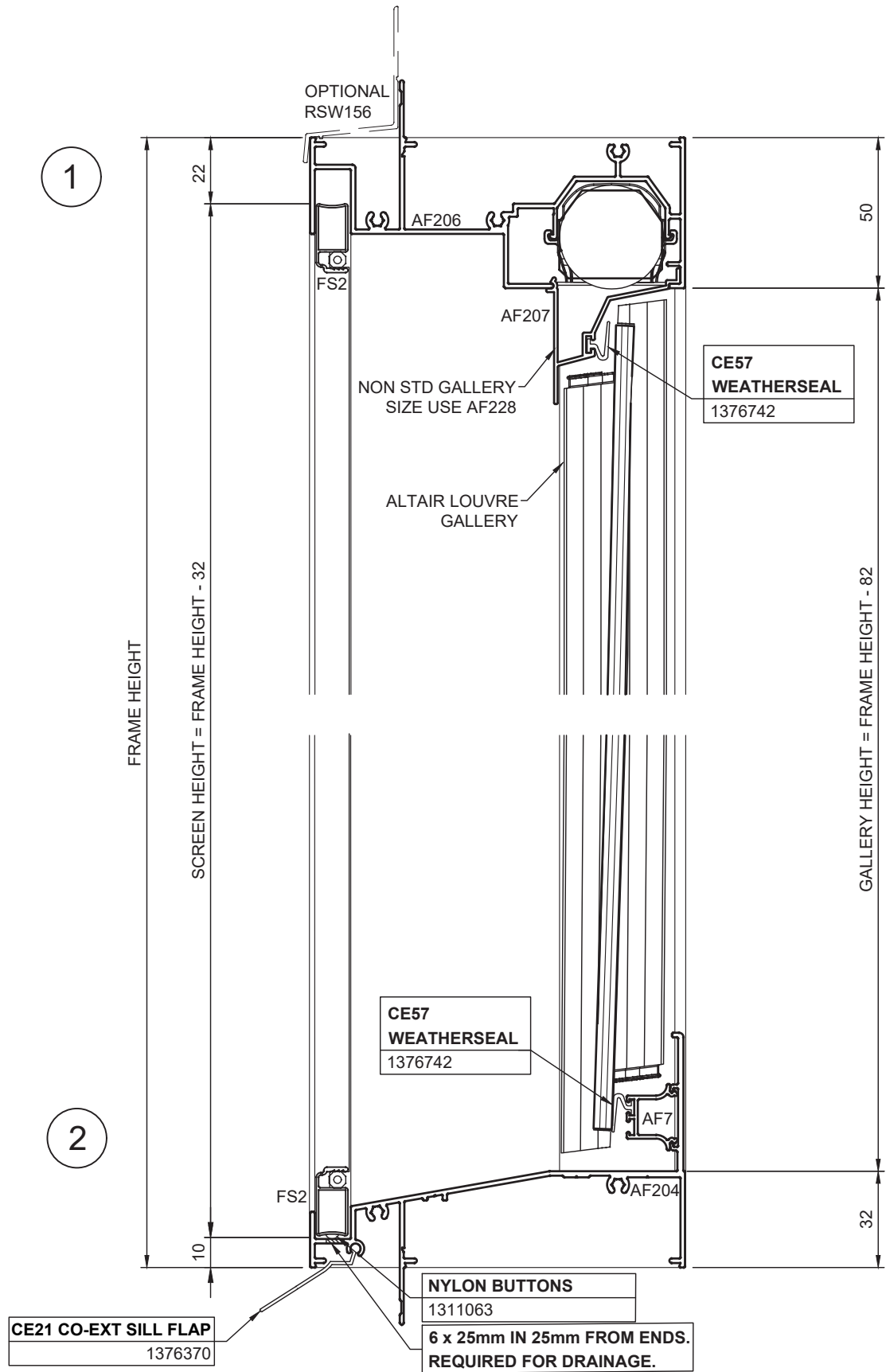
8. Typical Details

Typical Head and Sill Details



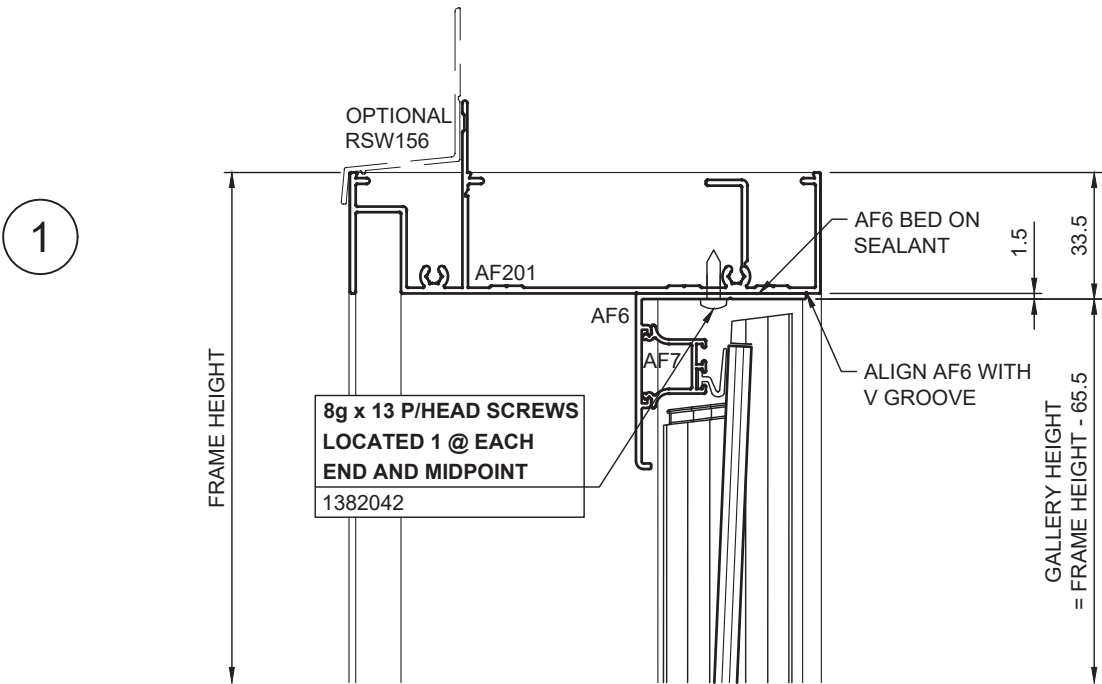
8. Typical Details

Powerlouvre Head and Sill Details

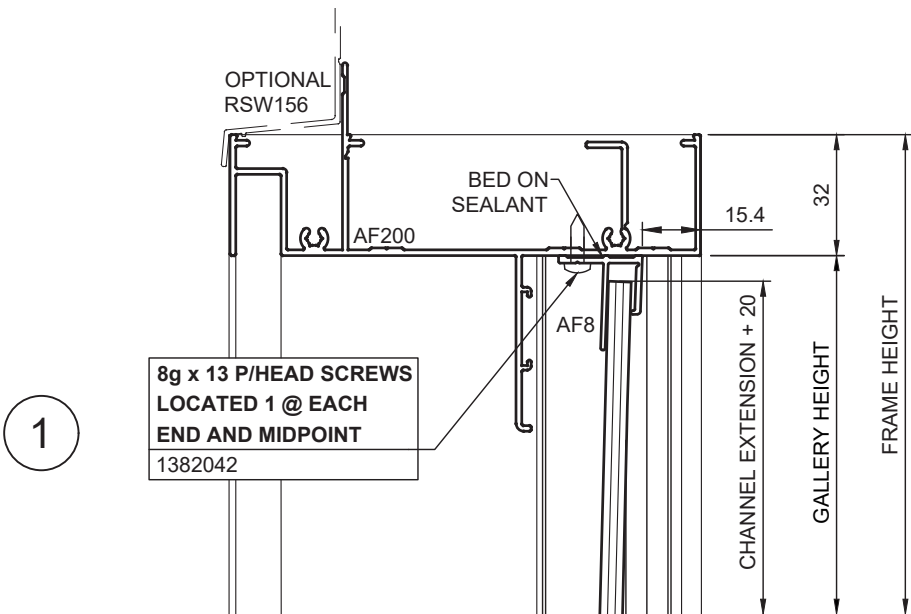


8. Typical Details

Alternate Head Detail

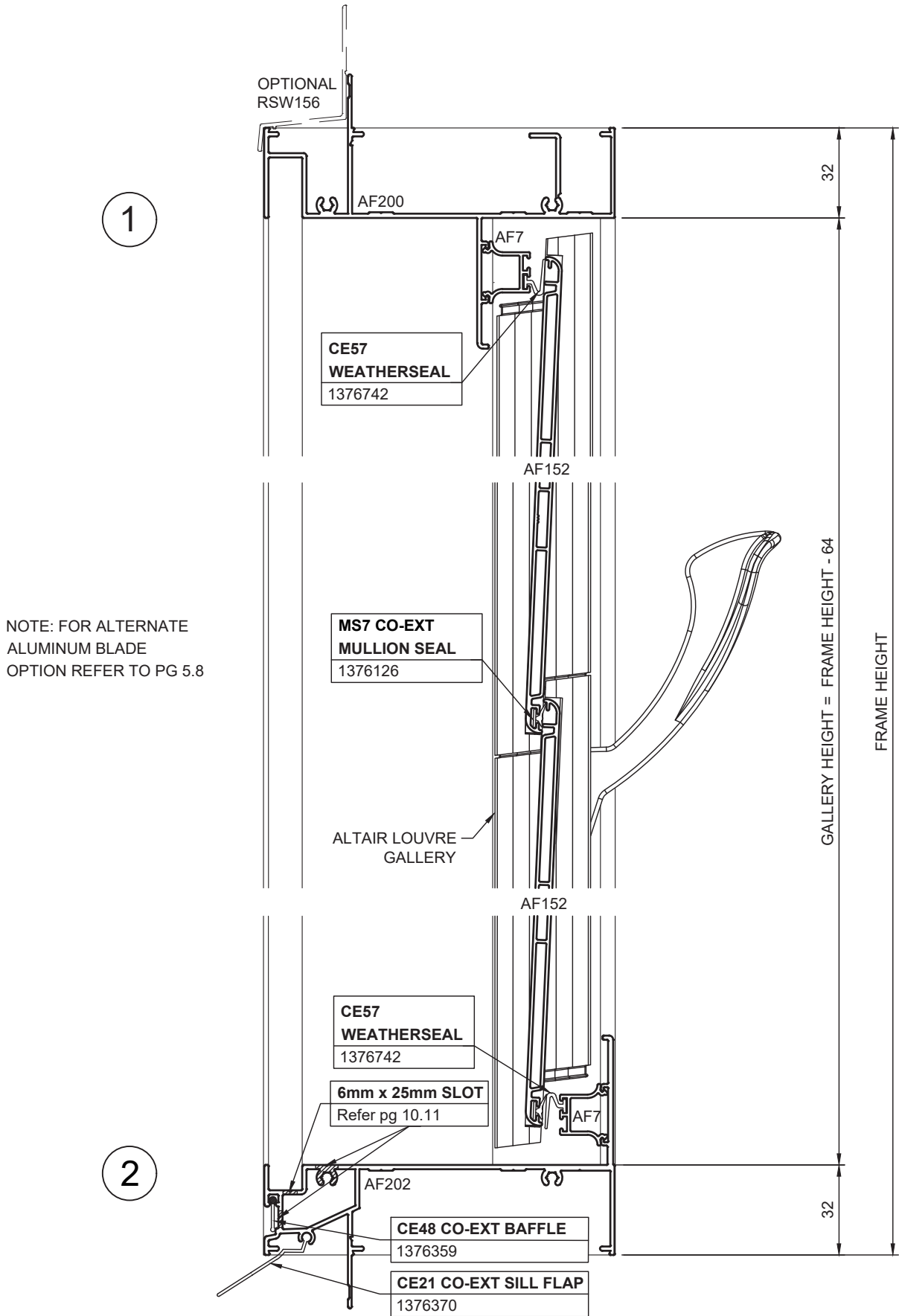


Cut Down Blade Adaptor Head Detail



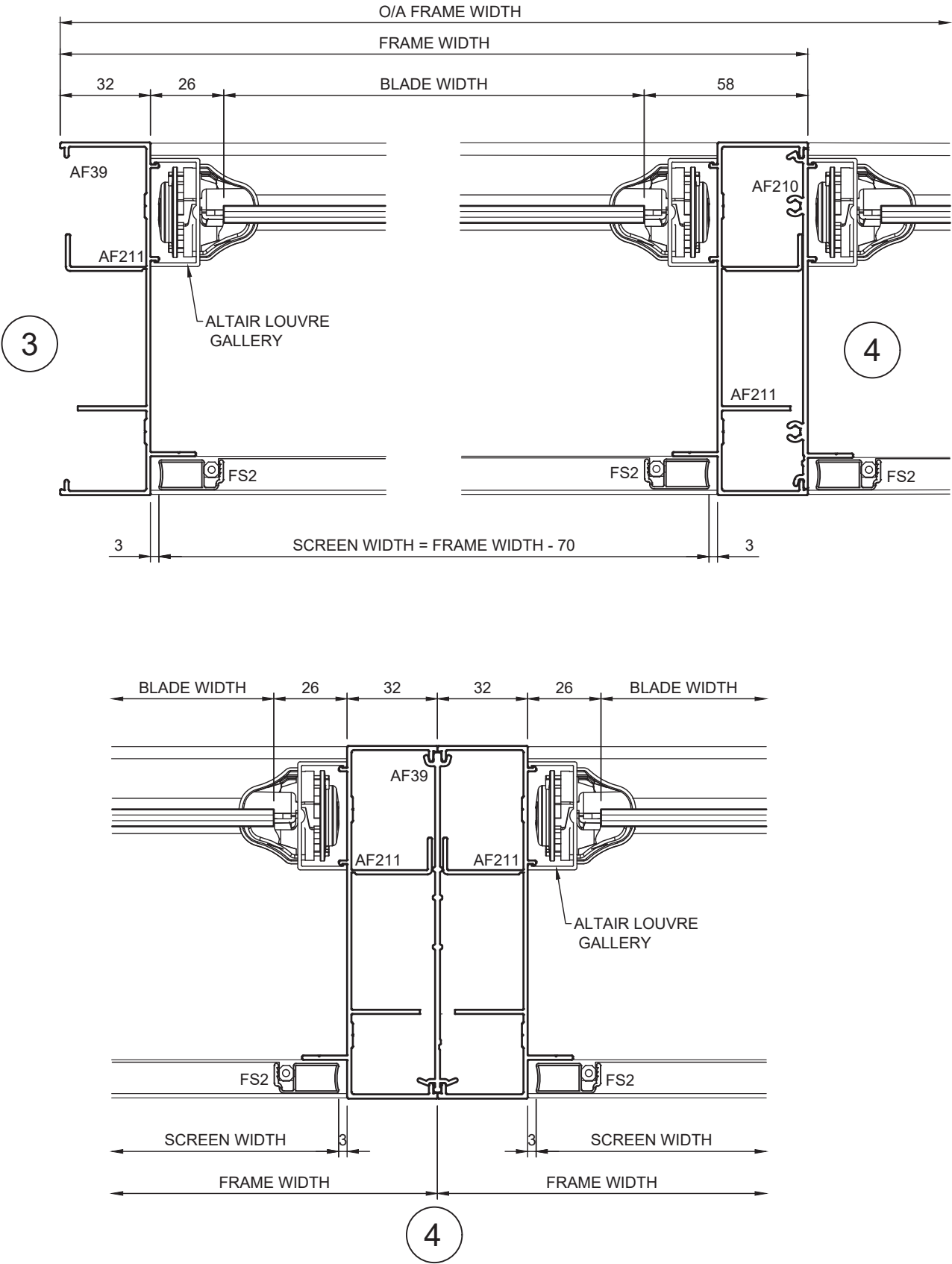
8. Typical Details

Head & Sill Details - Aluminium Blades



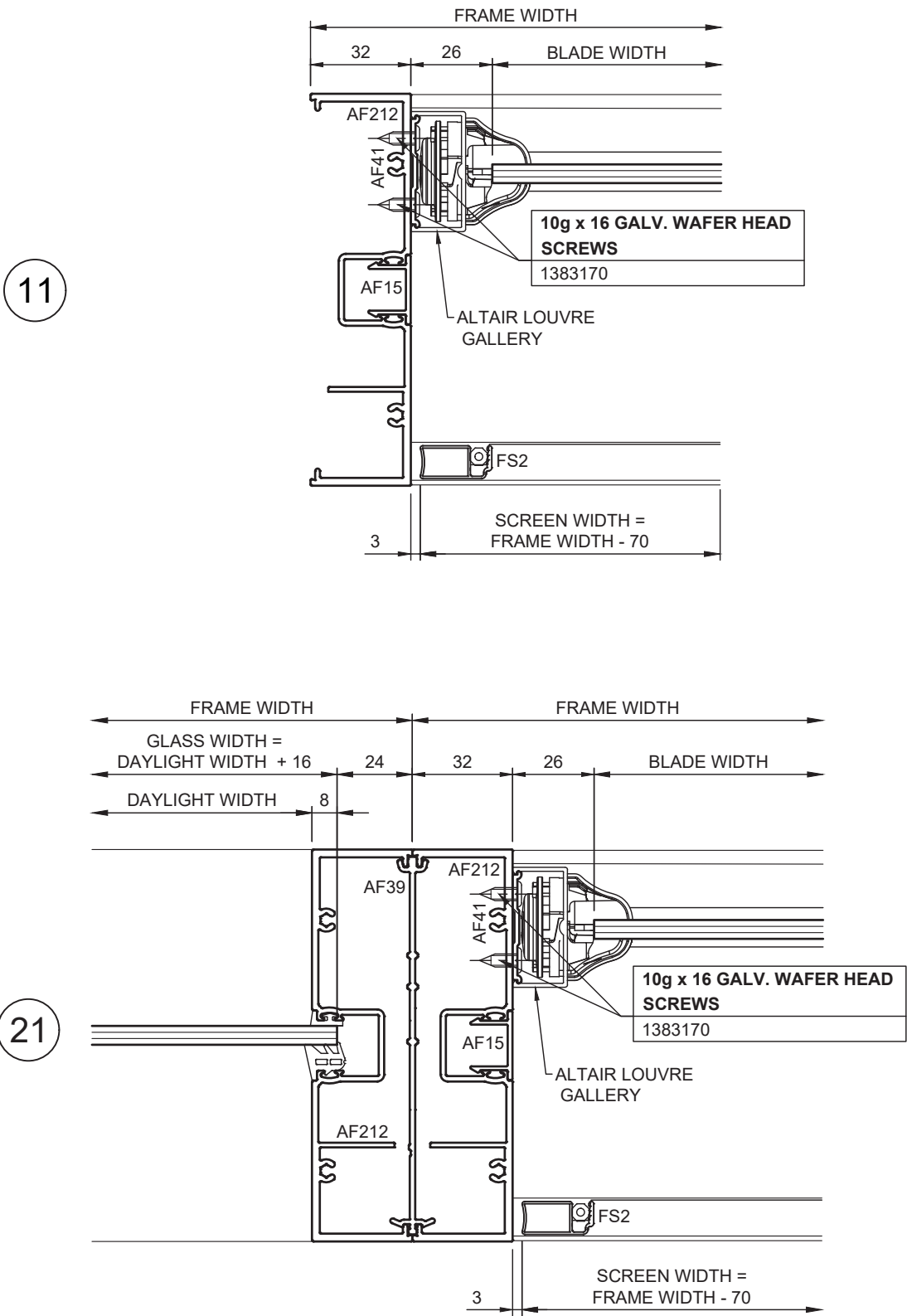
8. Typical Details

Louvre Jamb and Mullion Options

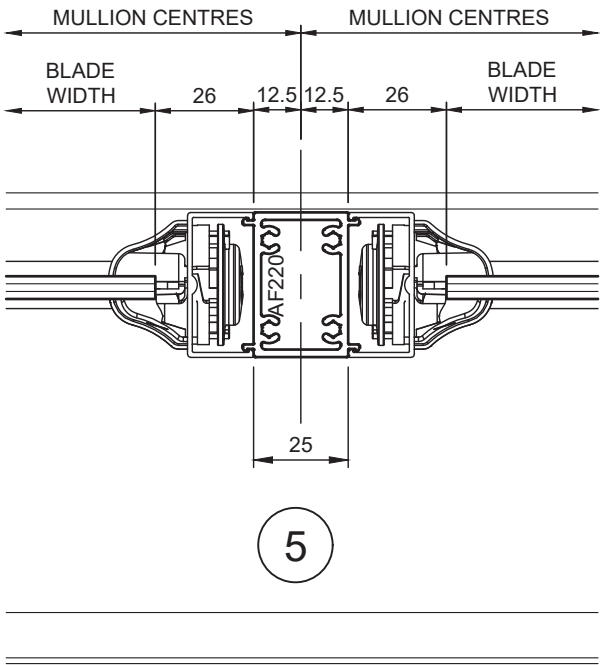
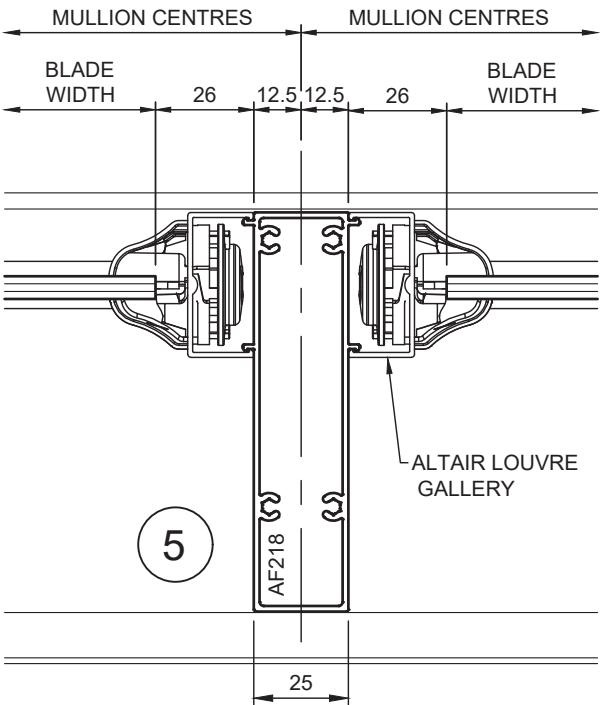


8. Typical Details

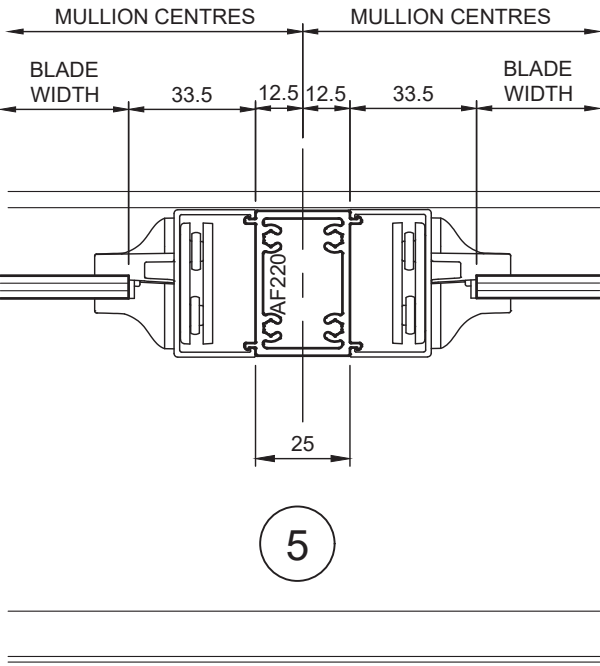
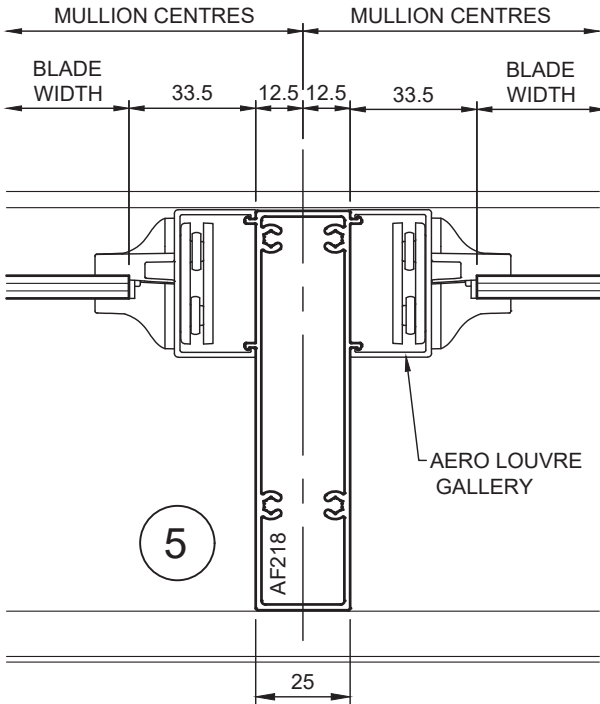
Louvre Jamb and Mullion Options



Run through Head & Sill Details with AF218 / AF220 Mullion - Altair Louvre Gallery

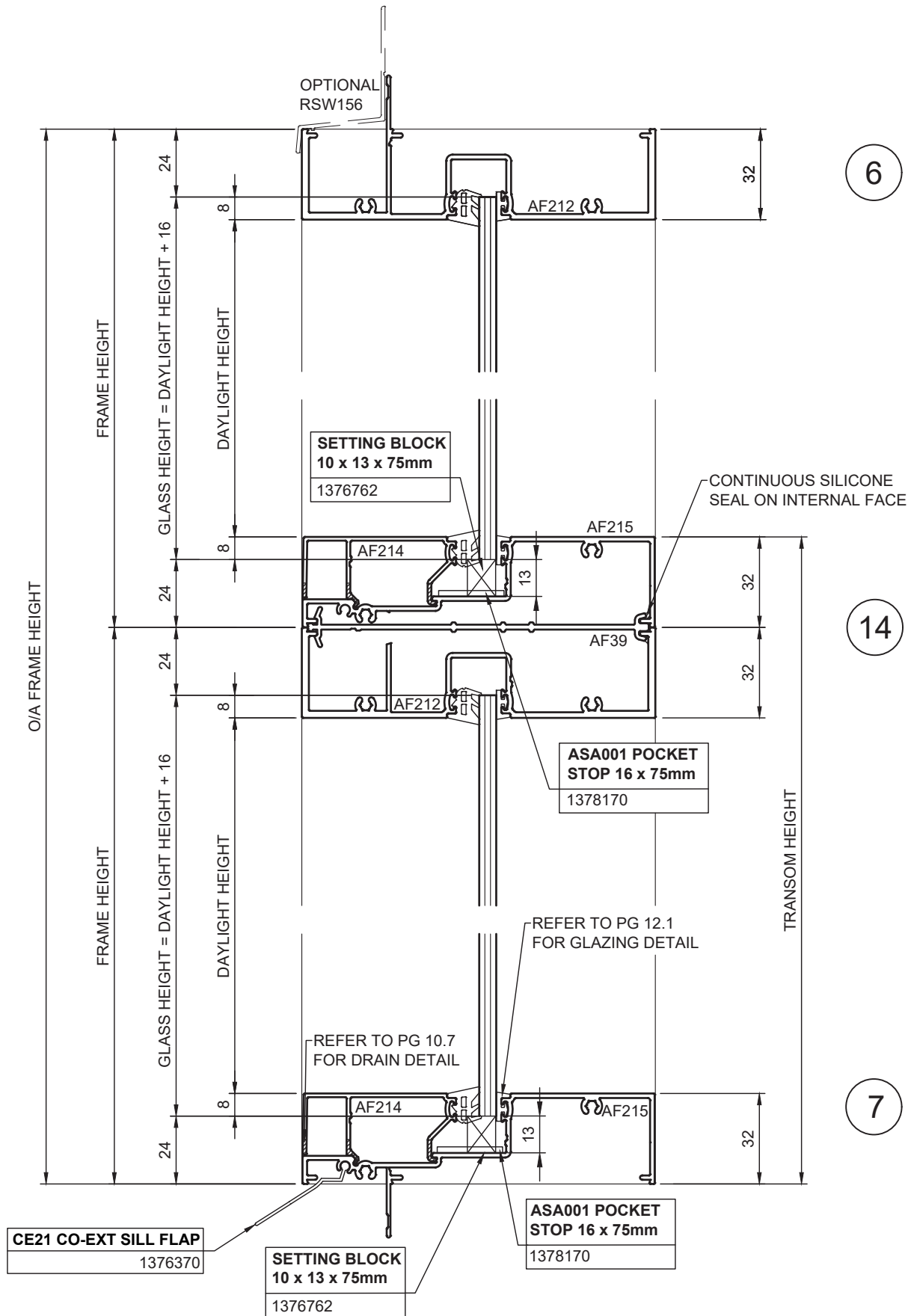


Run through Head Details with AF218 / AF220 Mullion - AERO Louvre Gallery



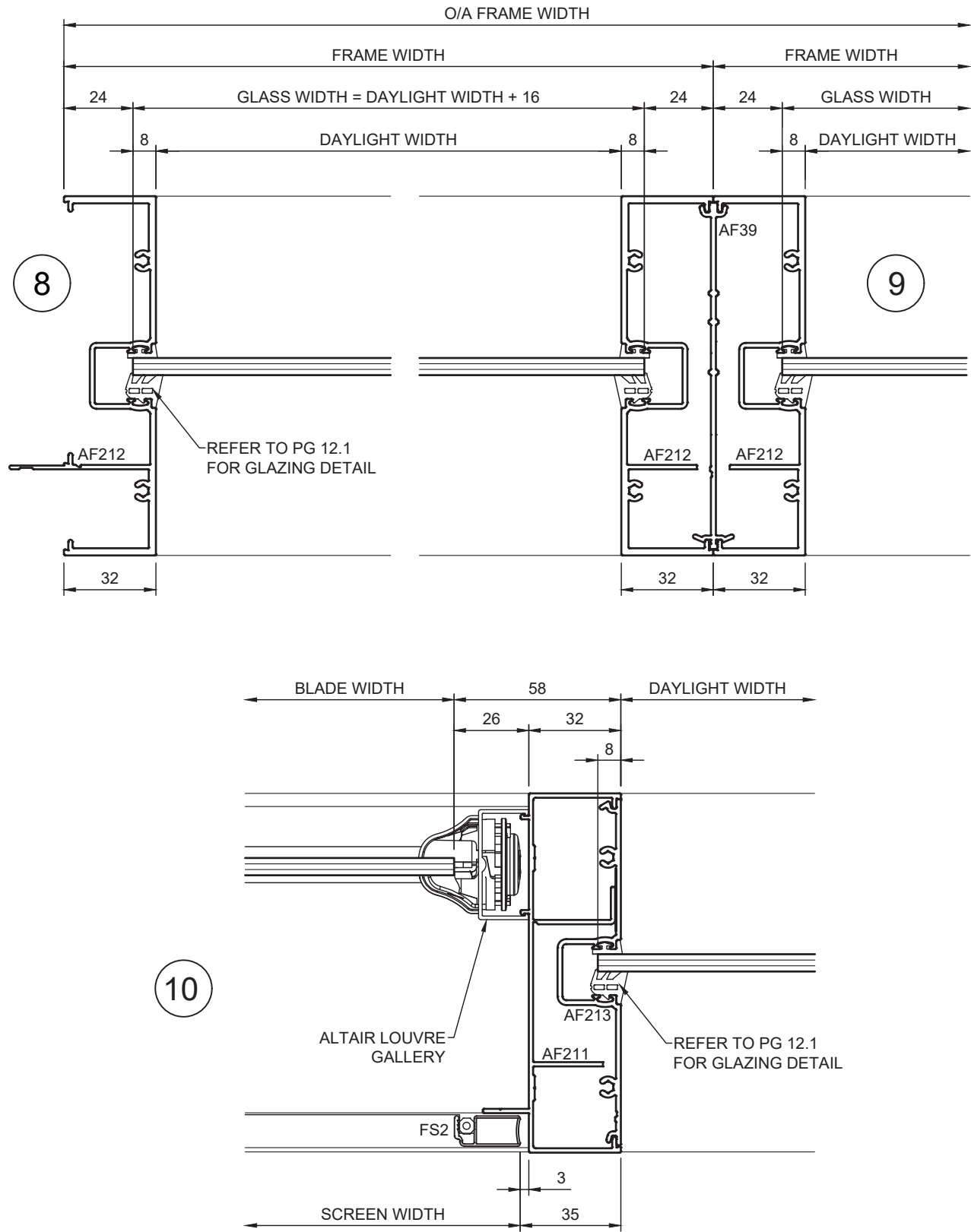
8. Typical Details

Fixed Glazing - Head, Sill and Transom Details



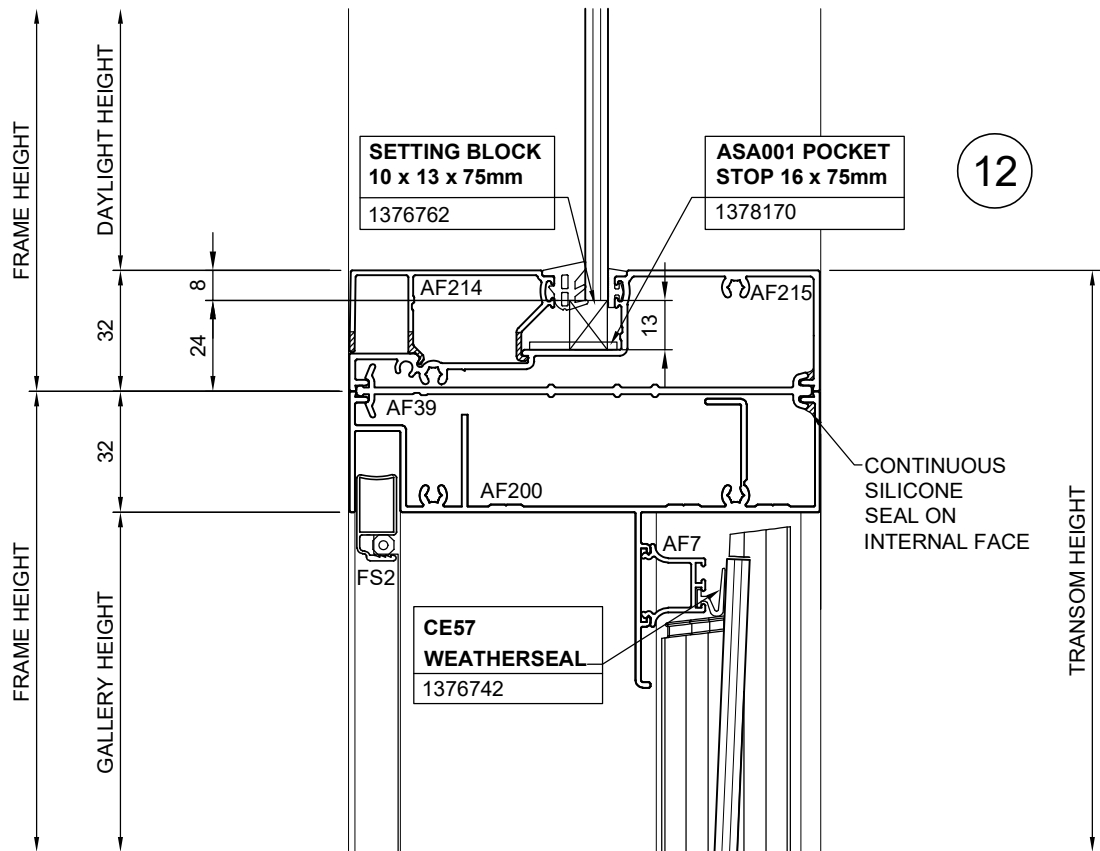
8. Typical Details

Fixed Glazing - Jamb and Mullion Details

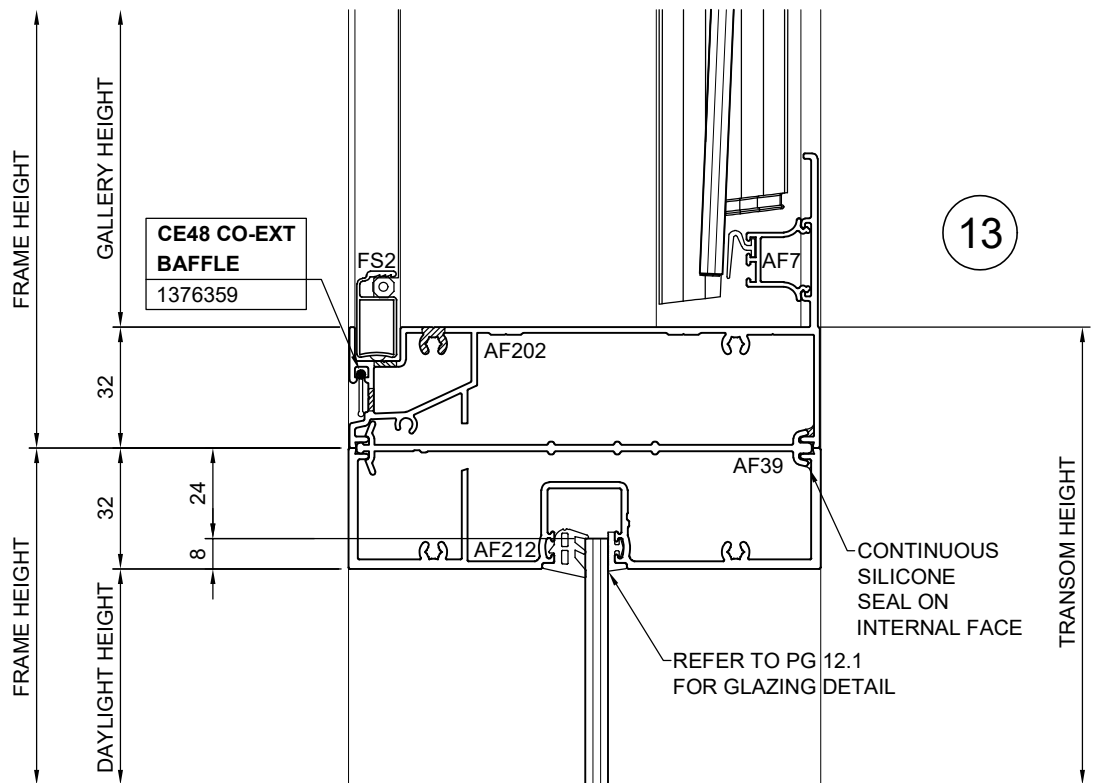


8. Typical Details

Transom Details - Fixed High Lite over Louvres

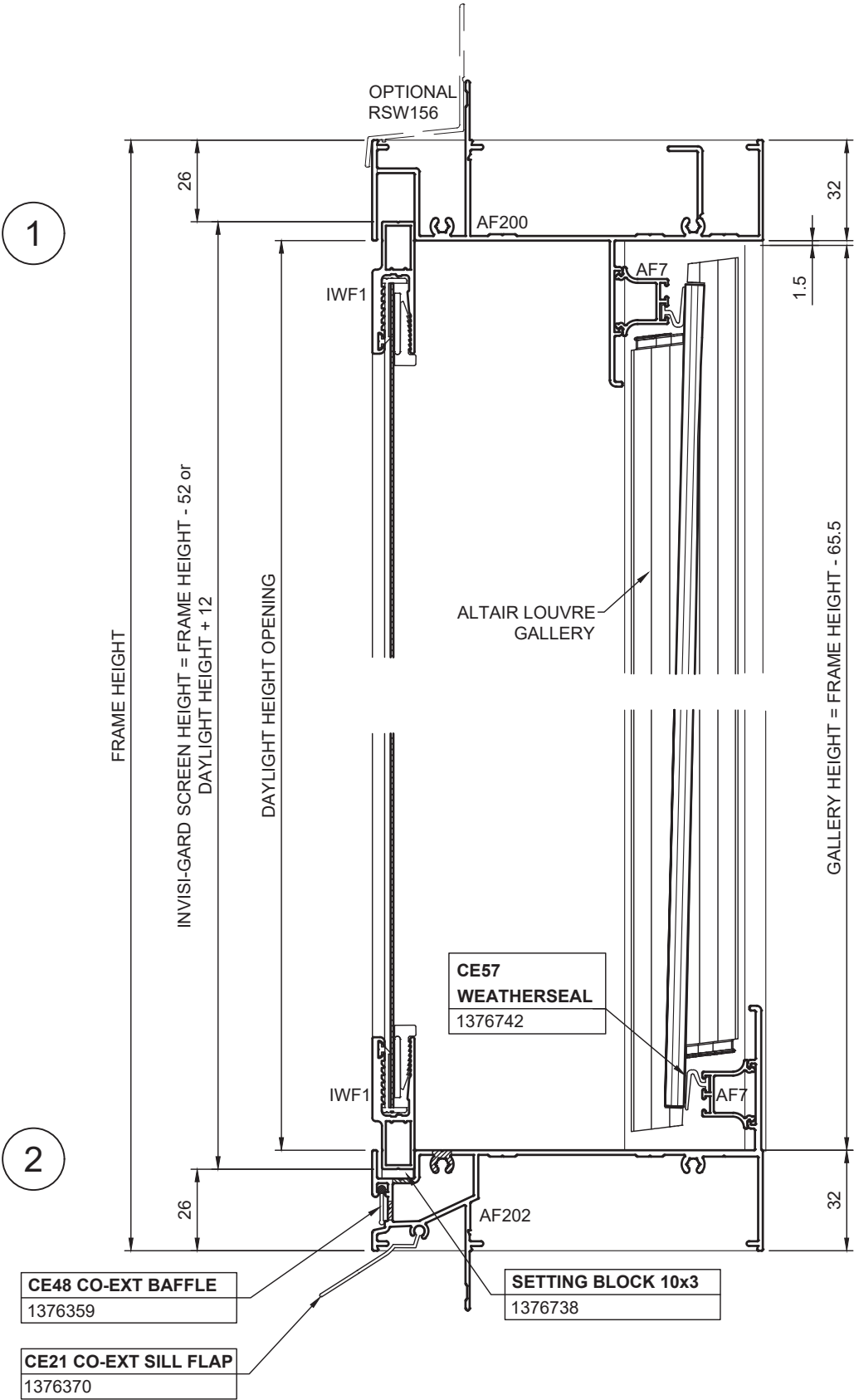


Transom Details - Louvres over Fixed Low Lite



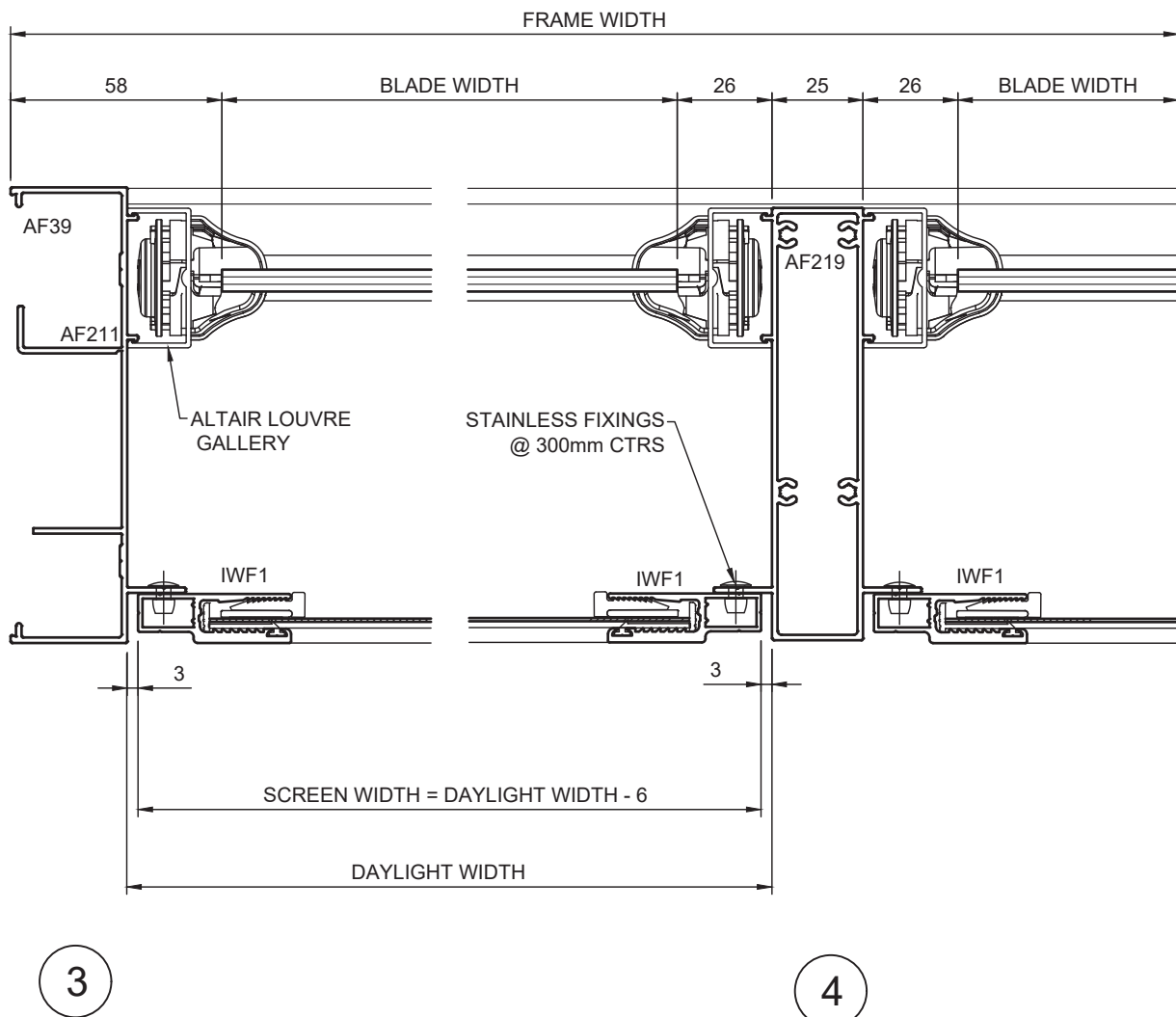
8. Typical Details

Invisi-Gard Window Screen Head and Sill Details

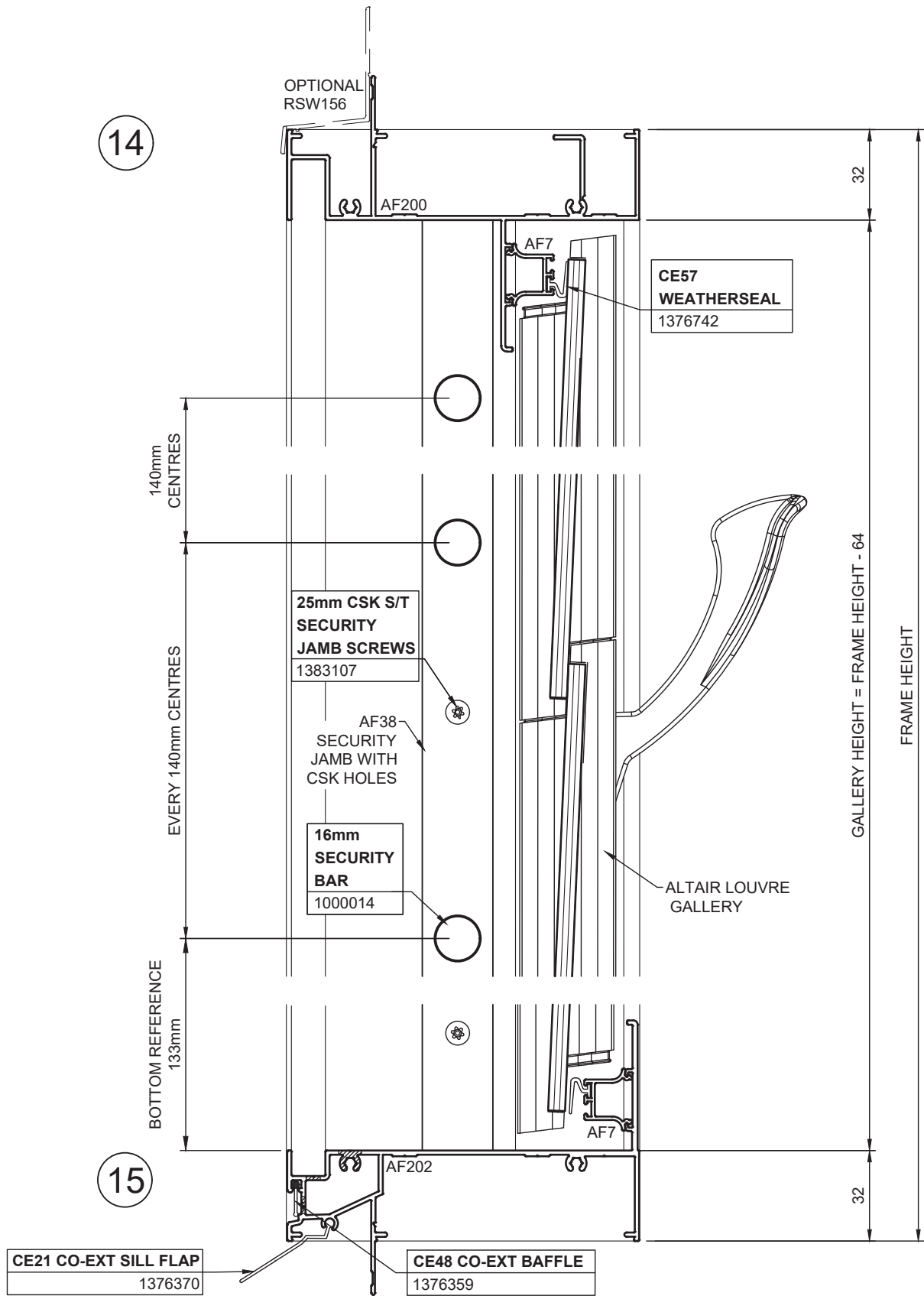


8. Typical Details

Invisi-Gard Window Screen Jamb and Mullion Details

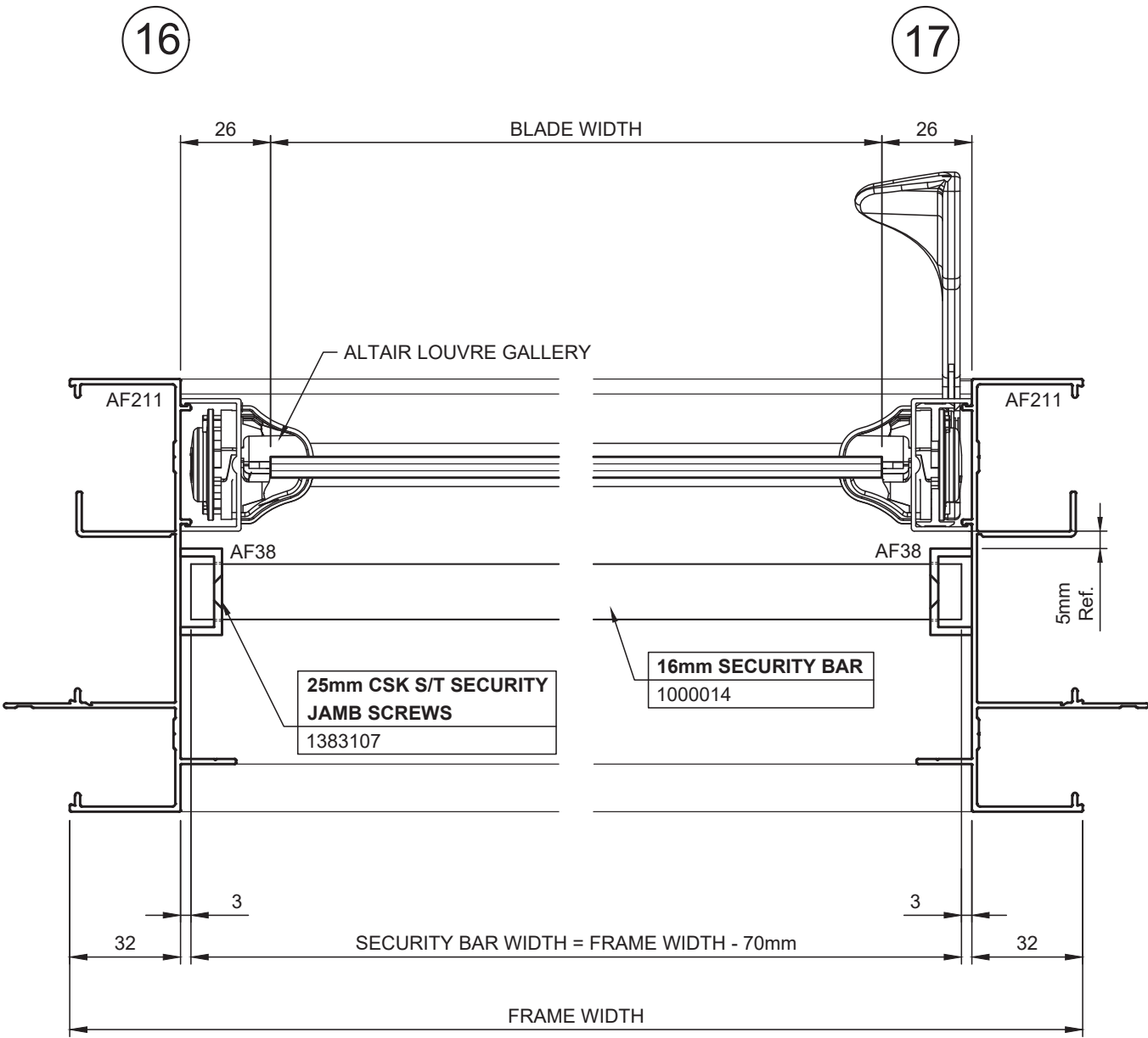


Head and Sill Details with 152mm Gallery and Security Bars



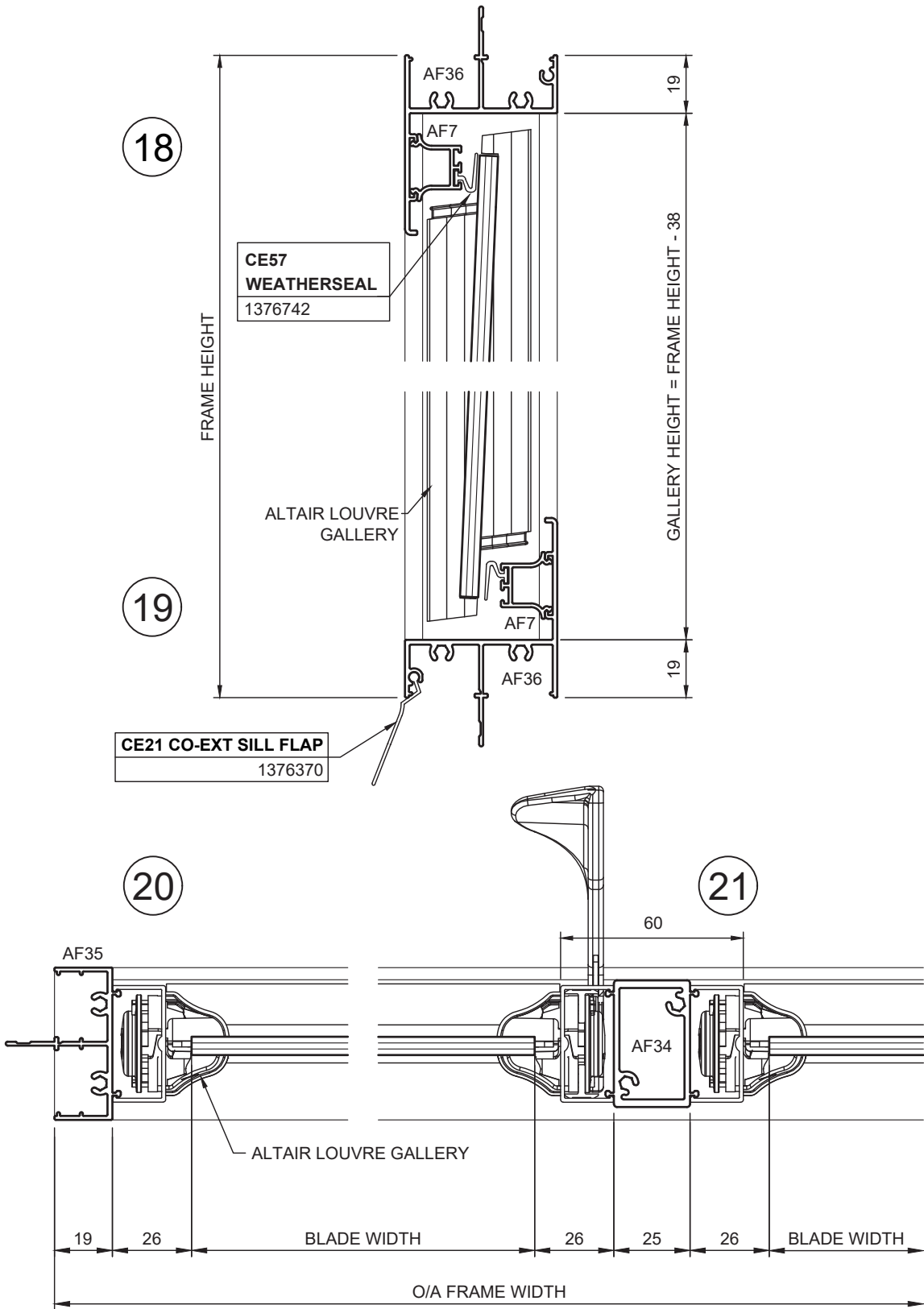
8. Typical Details

Standard Jamb and 152mm Gallery with Security Bars

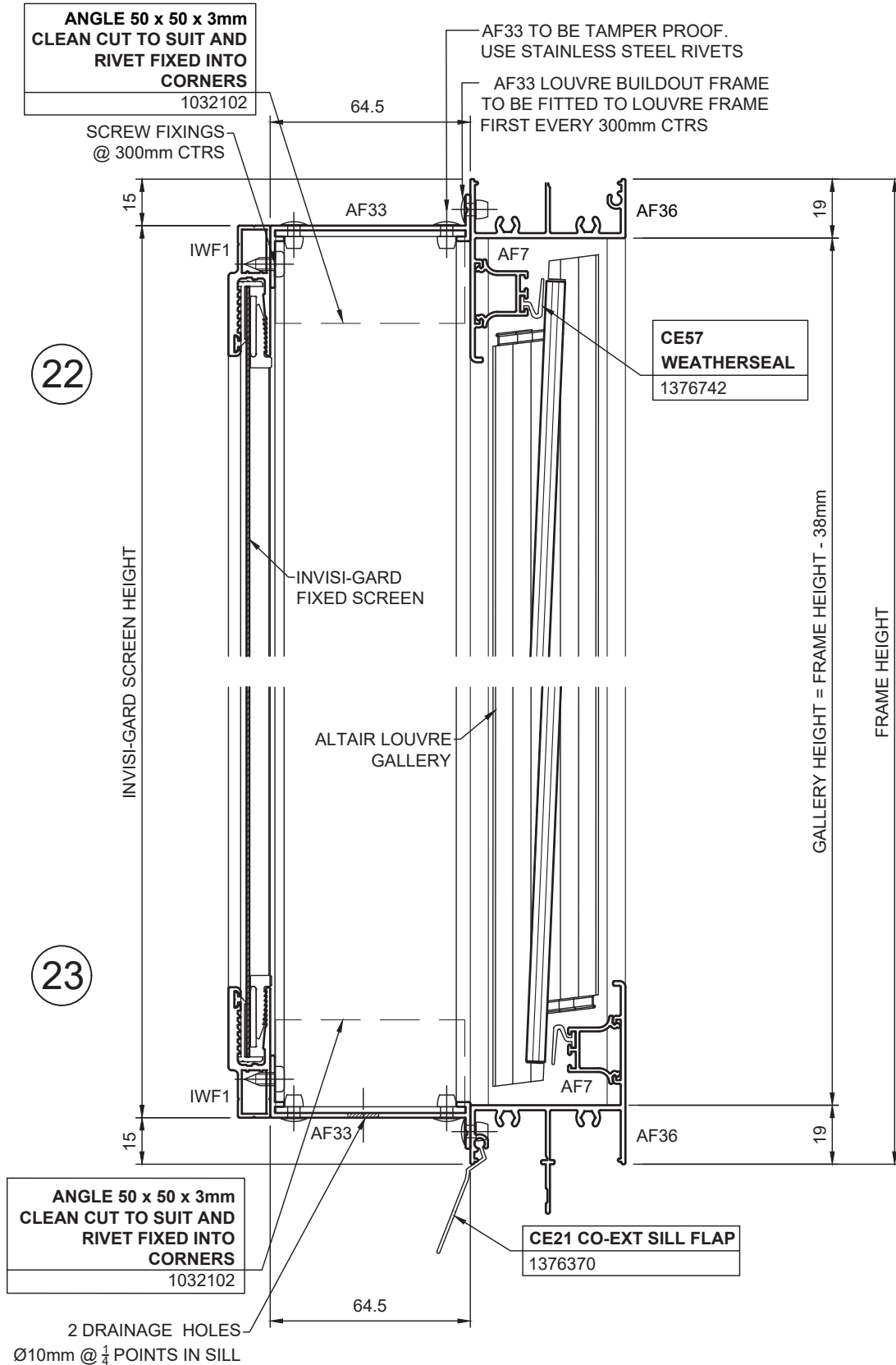


8. Typical Details

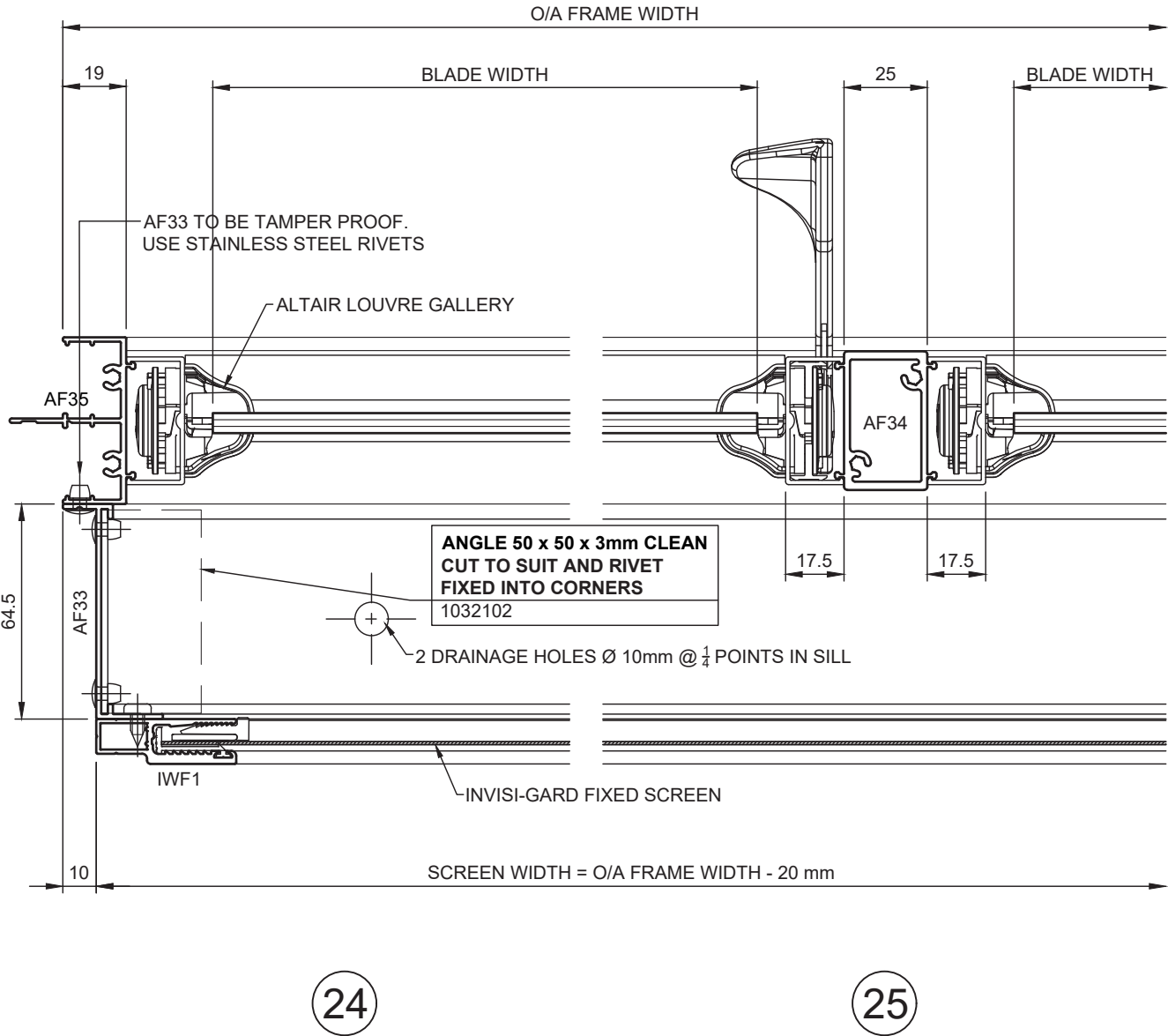
50mm Framing - Head, Sill, Jamb and Mullion Details



50mm Framing - Head and Sill with Buildout Frame and Invisi-Gard Screen Details

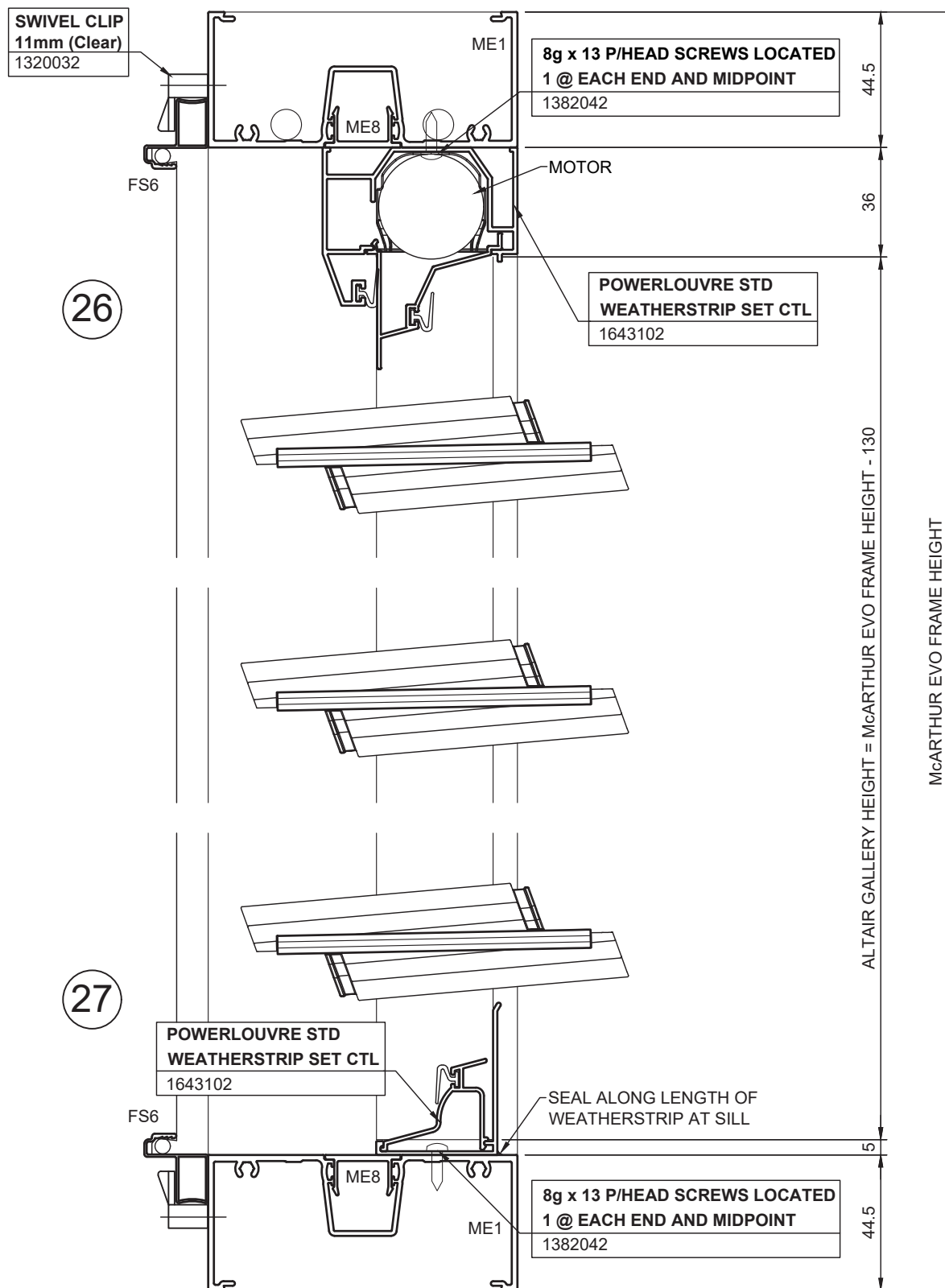


50mm Framing - Jamb with Buildout Frame and Invisi-Gard Screen Details



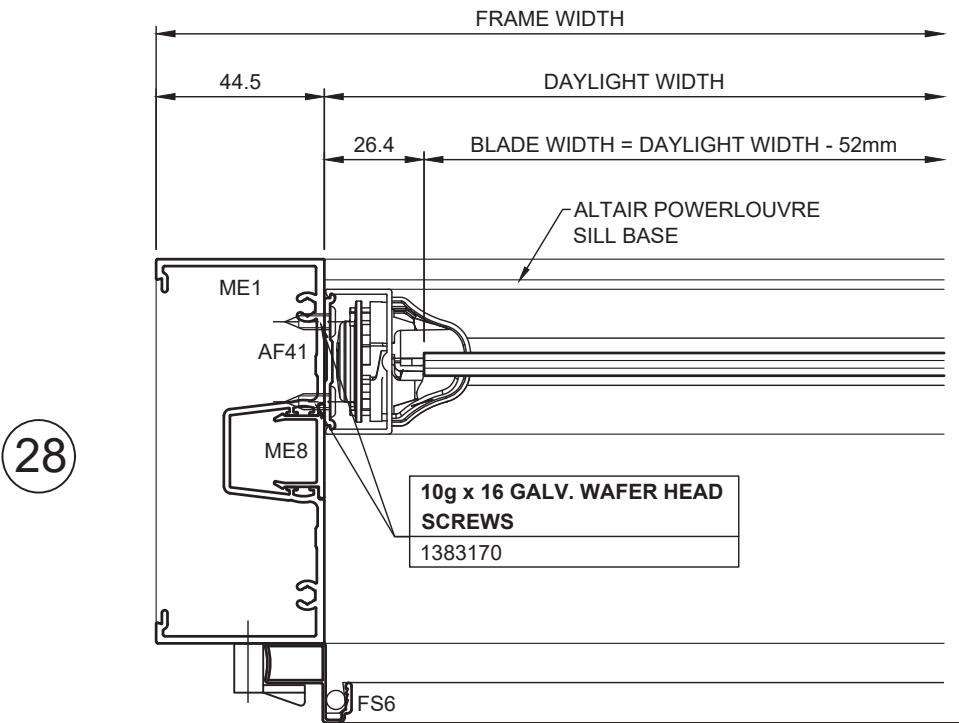
Altair Powerlouvre 102mm Clip in 101.6mm McArthur Evo Frame

NOTE: REFER TO McARTHUR EVO TECHNICAL MANUAL FOR ALL FRAMING OPTIONS



NOTE: 152mm GALLERIES CANNOT BE SCREENED AND OPENING NEEDS TO BE RESTRICTED WHEN USING 101.6mm COMMERCIAL FRAMING WITH POWERLOUVRE.

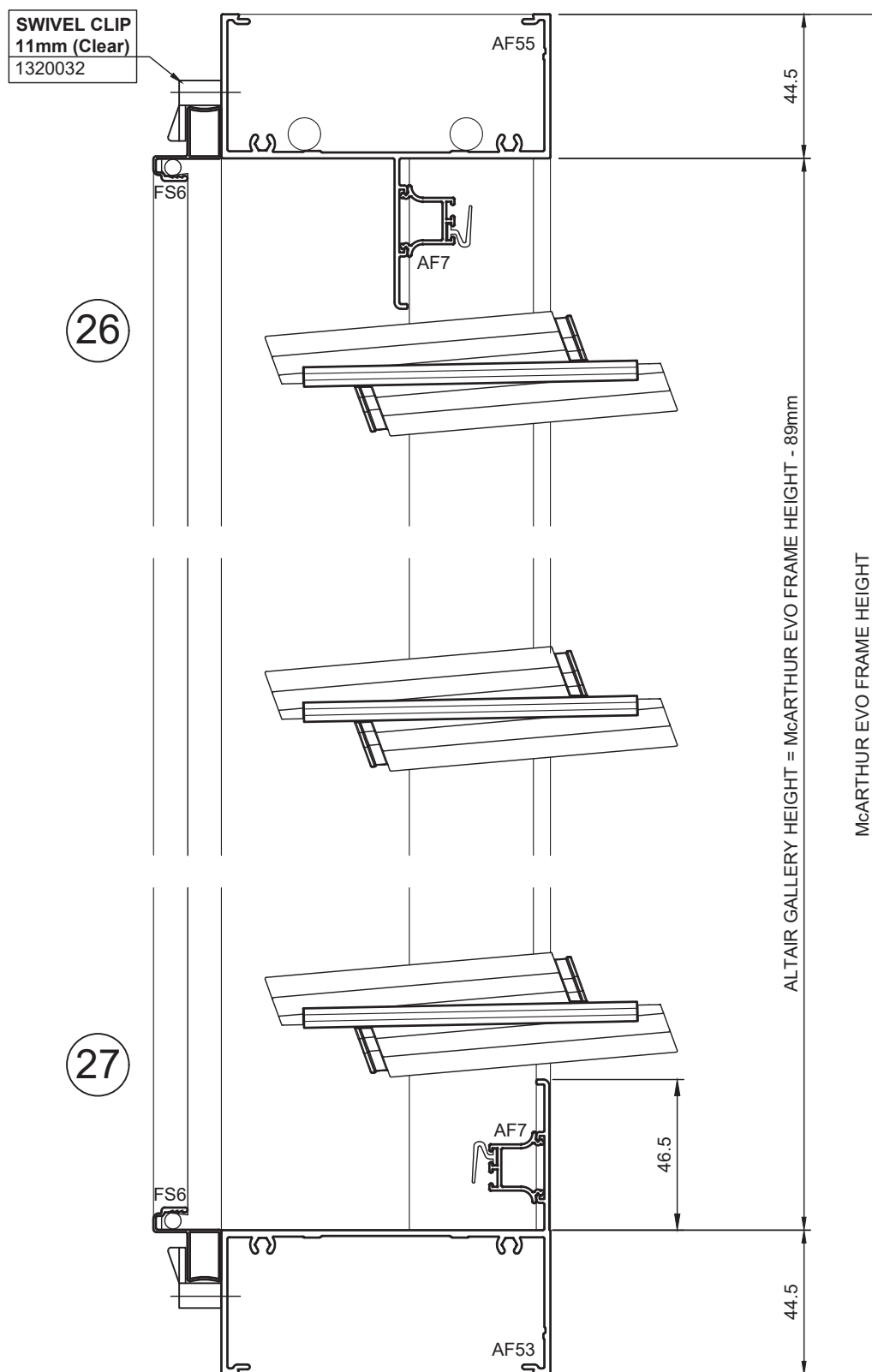
101.6mm McArthur Evo Jamb Details - 102mm Powerlouvre



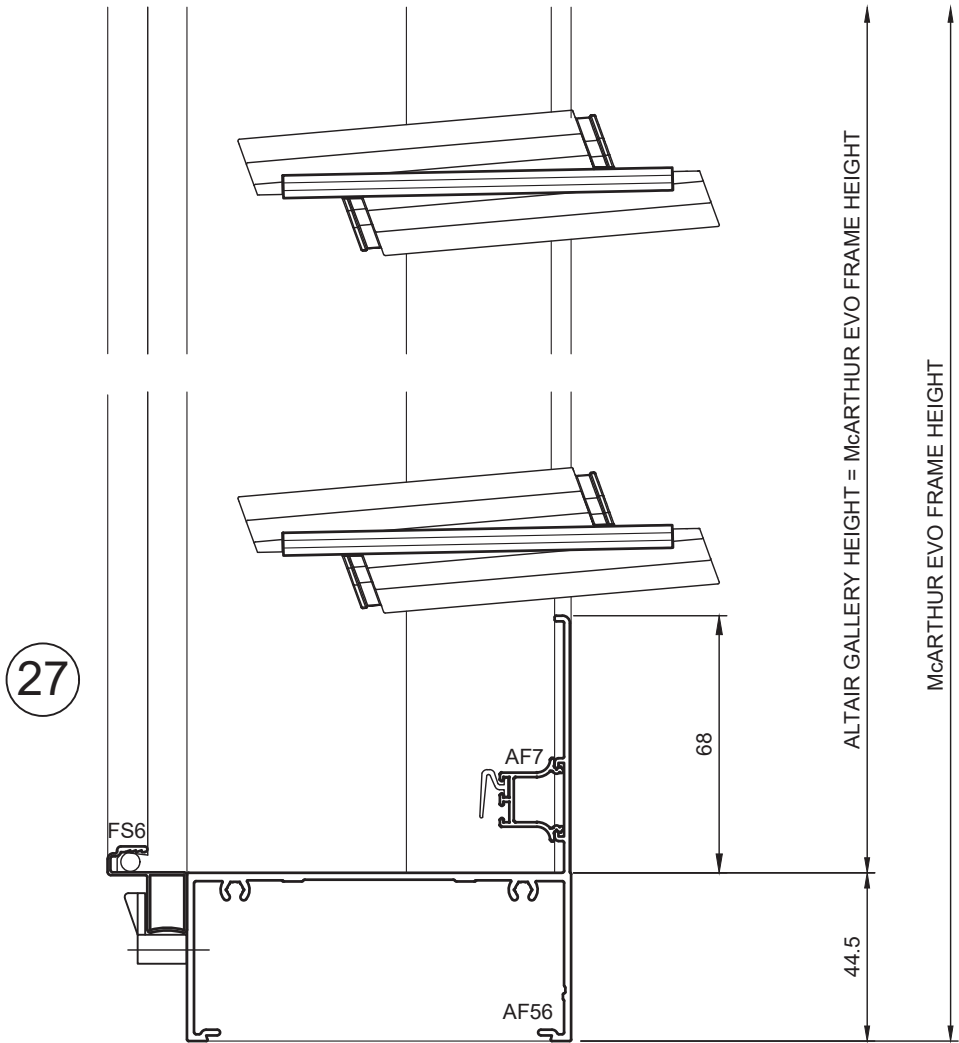
NOTE: REFER TO McARTHUR EVO TECHNICAL MANUAL FOR ALL FRAMING OPTIONS

8. Typical Details

101.6mm McArthur Evo Frame and 102mm Altair Louvre Gallery

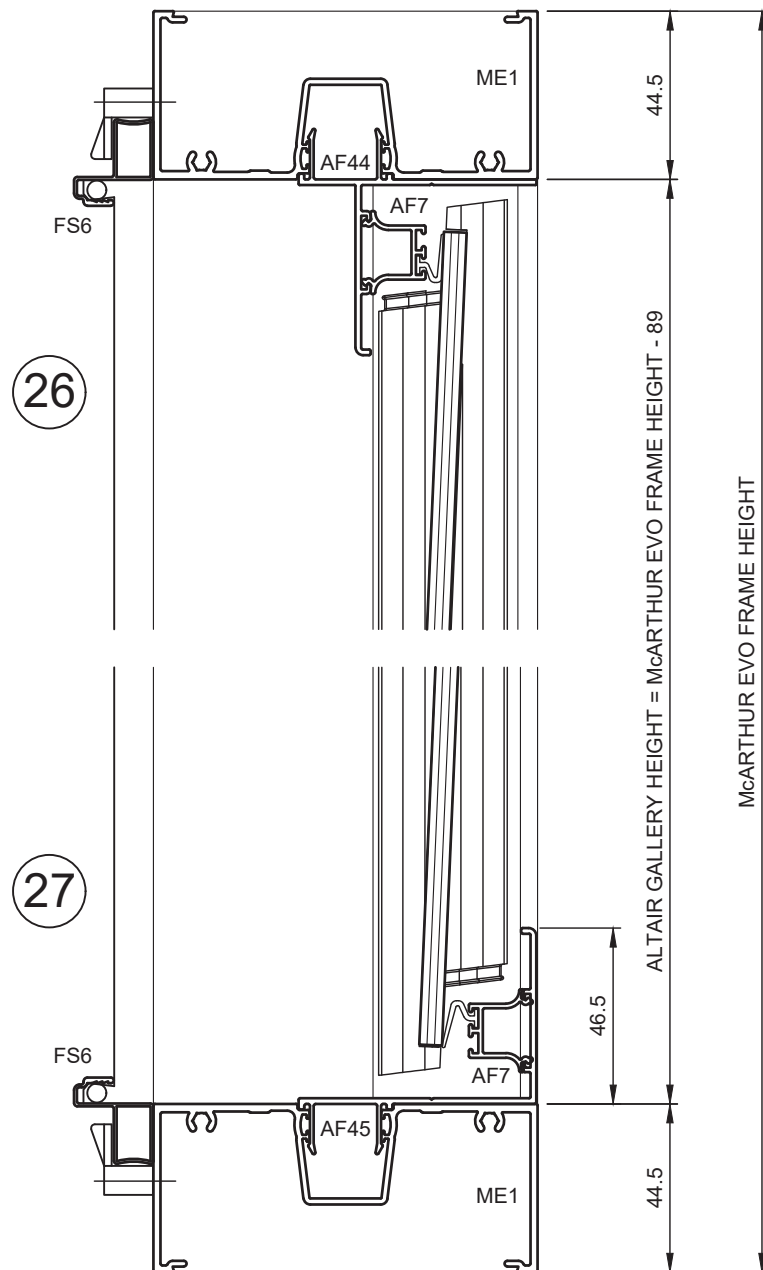


101.6mm McArthur Evo Frame and 102mm Altair Louvre Gallery



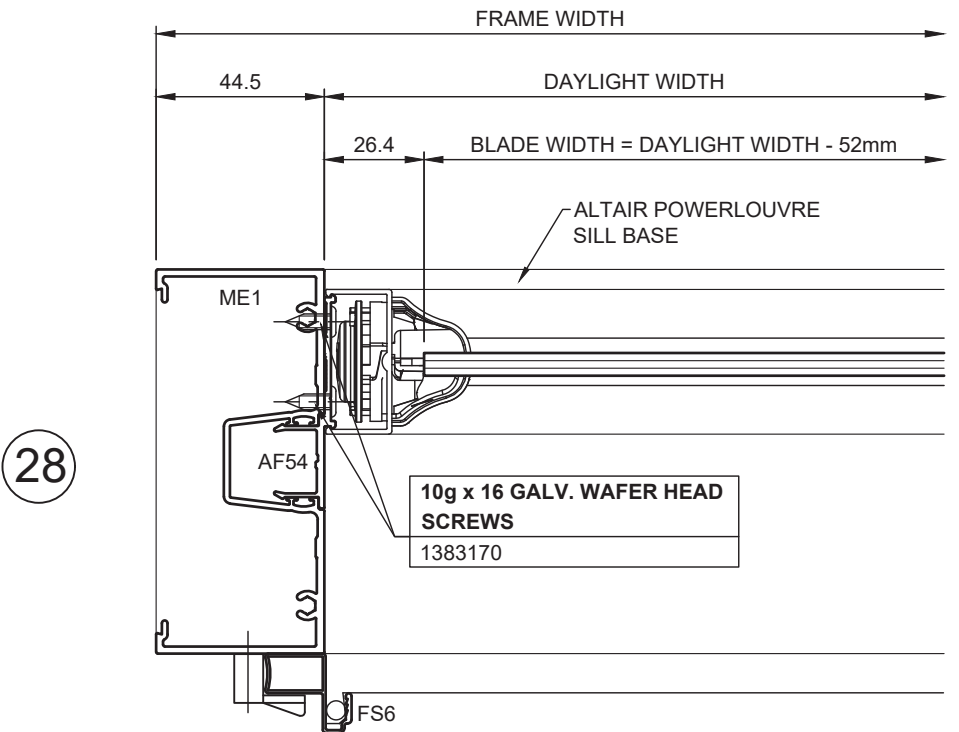
NOTE: SUITS ONLY 152mm GALLERIES

101.6mm McArthur Evo Frame and 102mm Altair Louvre Gallery



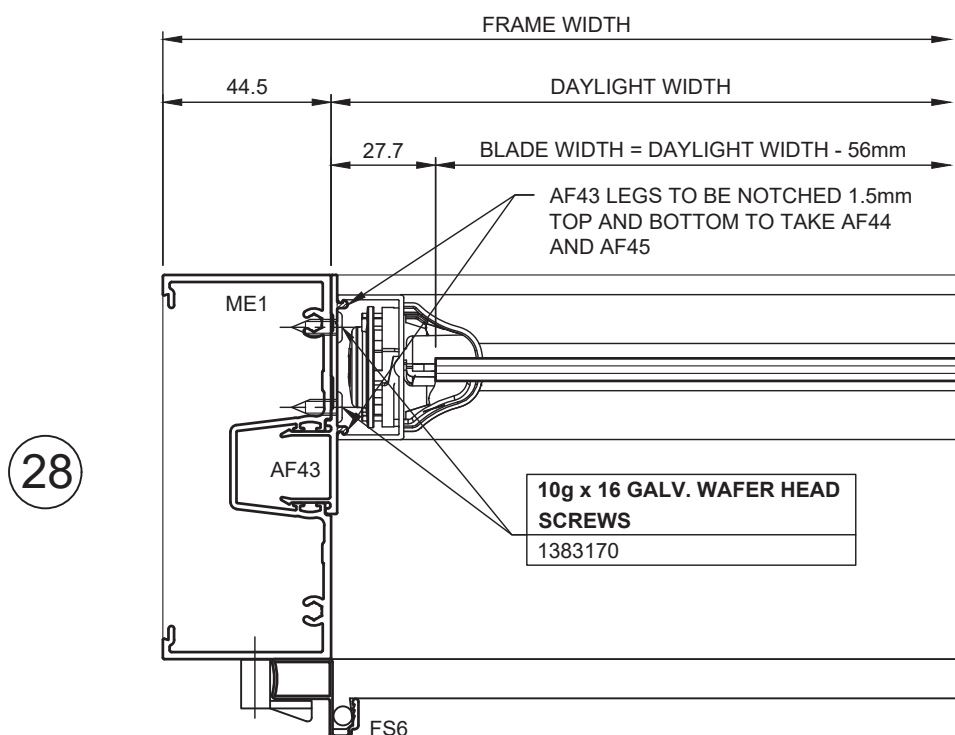
NOTE: REFER TO McARTHUR EVO TECHNICAL MANUAL FOR ALL FRAMING OPTIONS

101.6mm McArthur Evo Jamb Details - 102mm Standard



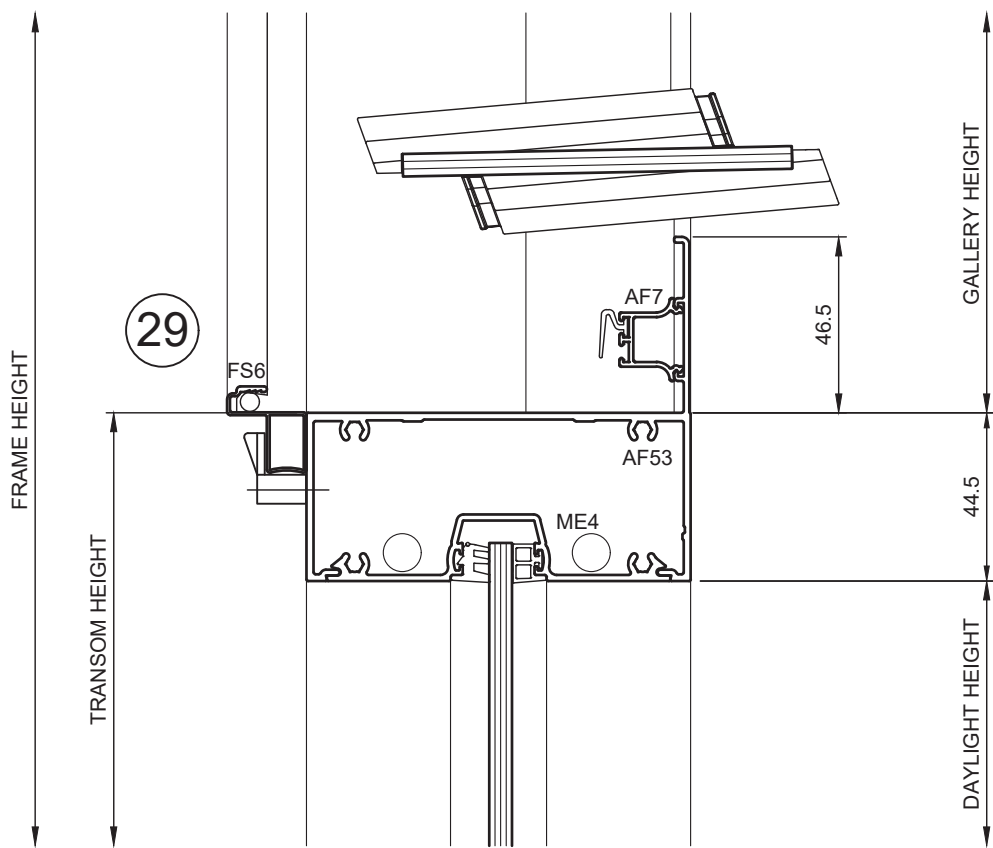
NOTE: REFER TO McARTHUR EVO TECHNICAL MANUAL FOR ALL FRAMING OPTIONS

101.6mm McArthur Evo Jamb Details - 102mm Standard

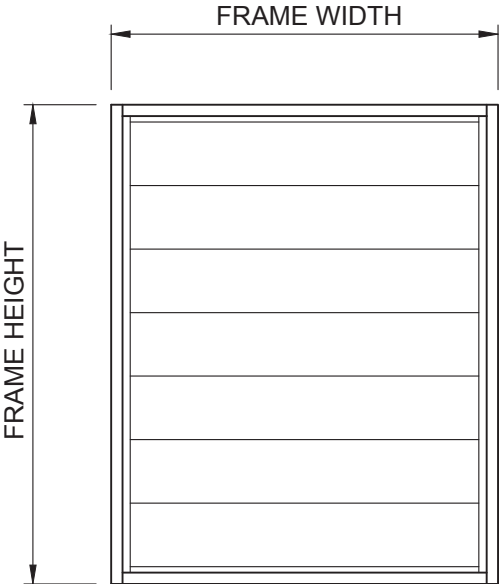


NOTE: REFER TO McARTHUR EVO TECHNICAL MANUAL FOR ALL FRAMING OPTIONS

101.6mm McArthur Evo Transom Details - 102mm Standard



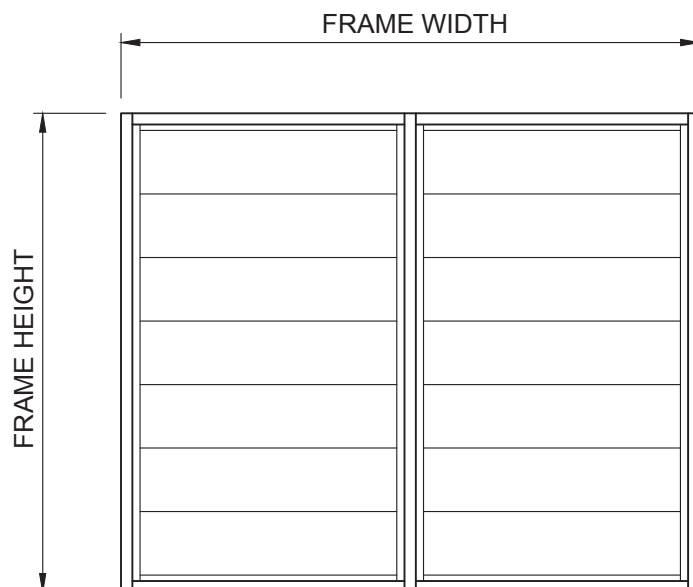
125mm Frame - Single Gallery

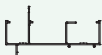
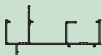
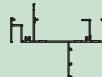


PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	AF211	Jamb	Frame Height	2
	AF200	Head	Frame Width - 64mm	1
	AF202	Sill	Frame Width - 64mm	1
	AF7	Weather Bar Bead	Frame Width - 99mm (1) Frame Width - 108mm (2)	2
	AF8	Cut Down Blade ADP	Frame Width - 99mm (1) Frame Width - 108mm (2)	1
	-	Gallery	Gallery Height = Frame Height - 64mm	PAIR
	FS2	Flyscreen	Frame Height - 45mm	2
	FS2	Flyscreen	Frame Width - 70mm	2
LOUVRE BLADE	Altair Louvre (1)		Refer to Pg. 6.22 for formula	
	Aero Louvre (2)		Refer to Pg. 6.23 for formula	

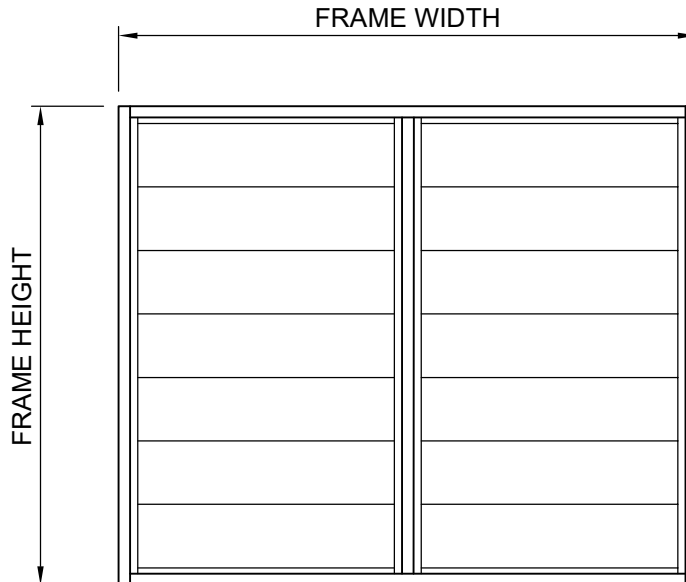
9. Cutting Formulas

125mm Frame - Double Gallery



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	AF211	Jamb	Frame Height	2
	AF211	Mullion	Frame Height	1
	AF210	Mullion Adaptor	Frame Height	1
	AF200	Head	Frame Width / 2 - 48mm	2
	AF202	Sill	Frame Width / 2 - 48mm	2
	AF7	Weather Bar Bead	Frame Width / 2 - 83mm (1) Frame Width / 2 - 92mm (2)	4
	AF8	Cut Down Blade ADP	Frame Width / 2 - 83mm (1) Frame Width / 2 - 92mm (2)	2
	-	Gallery	Gallery Height = Frame Height - 64mm	2 PAIR
	FS2	Flyscreen	Frame Height - 45mm	4
	FS2	Flyscreen	Frame Width / 2 - 54mm	4
LOUVRE BLADE	Altair Louvre (1)		Refer to Pg. 6.22 for formula	
	Aero Louvre (1)		Refer to Pg. 6.23 for formula	

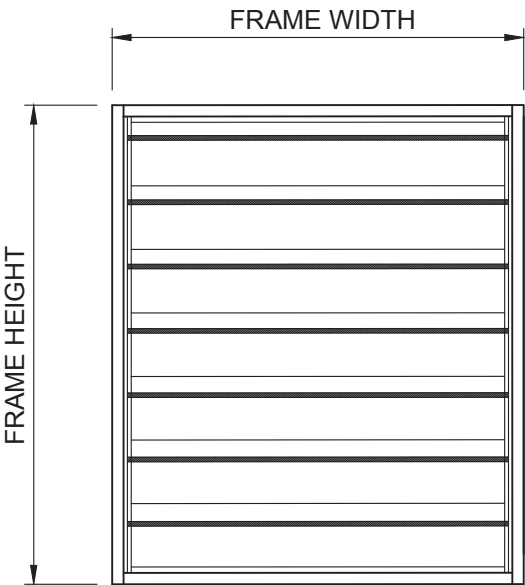
125mm Frame - Run Through Head & Sill - Double Gallery

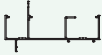


PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	AF211	Jamb	Frame Height	2
	AF218	Mullion	Frame Height - 64mm	1
	AF201	Head	Frame Width - 64mm	1
	AF202	Sill	Frame Width - 64mm	1
	AF6	Weather Bar	Frame Width / 2 - 44.5mm	2
	AF7	Weather Bar Bead	Frame Width / 2 - 79.5mm (1) Frame Width / 2 - 88.5mm (2)	4
	AF8	Cut Down Blade ADP	Frame Width / 2 - 122.5mm (1) Frame Width / 2 - 122.5mm (2)	2
	-	Gallery	Gallery Height = Frame Height - 65.5mm	2 PAIR
	FS2	Flyscreen	Frame Height - 45mm	2
	FS2	Flyscreen	Frame Width / 2 - 37mm	2
LOUVRE BLADE	Altair Louvre (1)		Refer to Pg. 6.22 for formula	
	Aero Louvre (2)		Refer to Pg. 6.23 for formula	

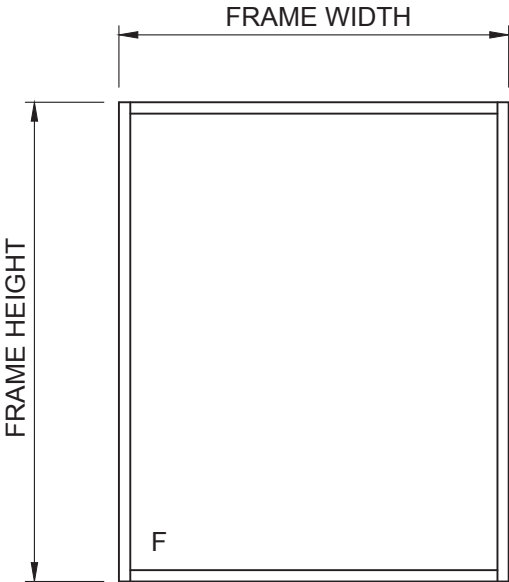
Note: AF200 Head can only be used as a run through Head when using AF220 38mm Mullion.
The Weatherbar must be notched at both ends where Jambs meet Head.

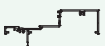
125mm Frame - Single Gallery with Security Bars



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	AF211	Jamb	Frame Height	2
	AF200	Head	Frame Width - 64mm	1
	AF202	Sill	Frame Width - 64mm	1
	AF7	Weather Bar Bead	Frame Width - 99mm (1) Frame Width - 108mm (2)	2
	AF8	Cut Down Blade ADP	Frame Width - 99mm (1) Frame Width - 108mm (2)	1
	-	Gallery	Gallery Height = Frame Height - 64mm	PAIR
	AF35	Security Jamb	Frame Height - 64mm	2
	1000014	16mm Security Bar	Frame Width - 70mm	140mm CTRS
LOUVRE BLADE	Altair Louvre (1)		Refer to Pg. 6.22 for formula	
	Aero Louvre (2)		Refer to Pg. 6.23 for formula	

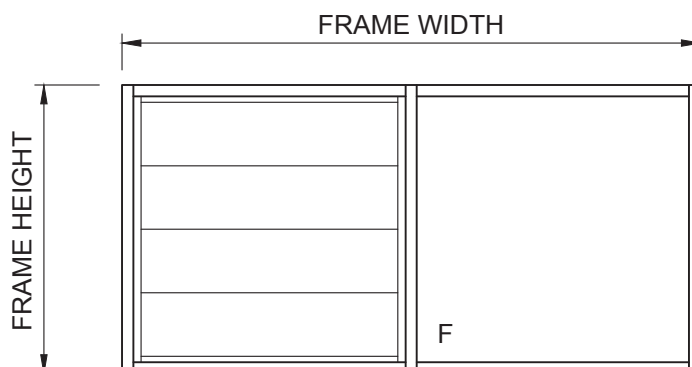
125mm Frame - Single Glazed Fixed Panel

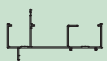
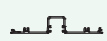
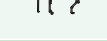
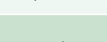
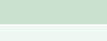
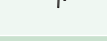
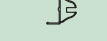


PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	AF212	Jamb	Frame Height	2
	AF212	Head	Frame Width - 64mm	1
	AF214	Sill	Frame Width - 64mm	1
	AF215	Sill Glazing Bead	Frame Width - 64mm	1
GLASS	FIXED HEIGHT		Frame Height - 48mm	1
	FIXED WIDTH		Frame Width - 48mm	

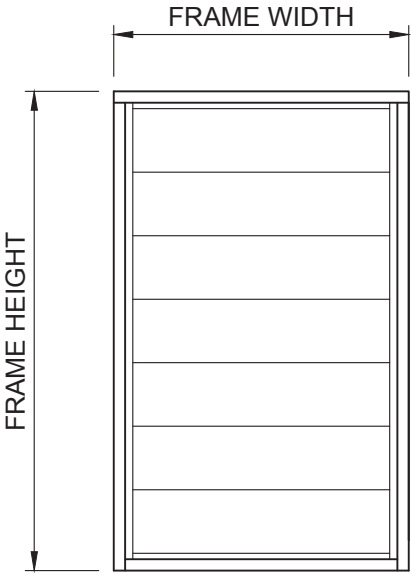
9. Cutting Formulas

125mm Frame - Louvre / Single Glazed Fixed Panel



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	AF211	Jamb	Frame Height	1
	AF211	Mullion	Frame Height	1
	AF213	Glazing Adaptor	Frame Height	1
	AF212	Jamb	Frame Height	1
	AF212	Head	Frame Width / 2 - 48mm	1
	AF214	Sill - Reveal Frame	Frame Width / 2 - 48mm	1
	AF215	Sill Glazing Bead	Frame Width / 2 - 48mm	1
	AF200	Head	Frame Width / 2 - 48mm	1
	AF202	Sill	Frame Width / 2 - 48mm	1
	AF7	Weather Bar Bead	Frame Width / 2 - 83mm (1) Frame Width / 2 - 92mm (2)	2
	AF8	Cut Down Blade ADP	Frame Width / 2 - 83mm (1) Frame Width / 2 - 92mm (2)	1
	-	Gallery	Gallery Height = Frame Height - 64mm	PAIR
	FS2	Flyscreen	Frame Height - 45mm	2
	FS2	Flyscreen	Frame Width / 2 - 54mm	2
LOUVRE BLADE	Altair Louvre (1)		Refer to Pg. 6.22 for formula	
	Aero Louvre (2)		Refer to Pg. 6.23 for formula	
GLASS	FIXED HEIGHT		Frame Height - 48mm	1
	FIXED WIDTH		Frame Width / 2 - 32mm	

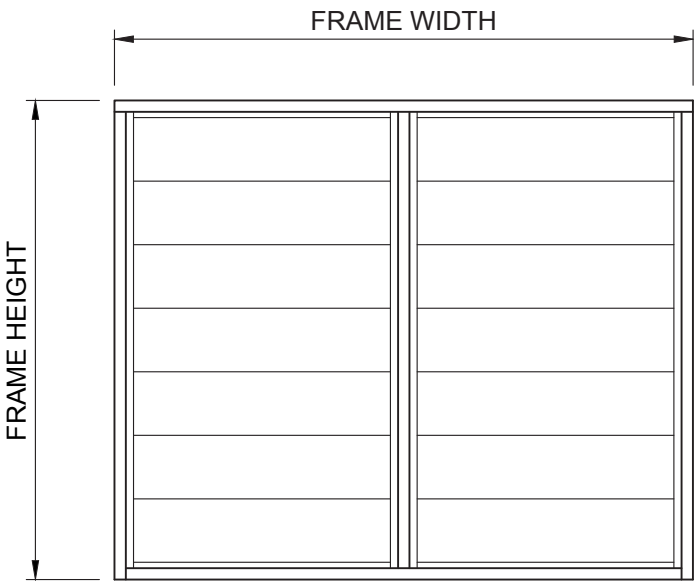
50mm Frame - Single Gallery



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	AF35	Jamb	Frame Height - 19mm	2
	AF36	Head	Frame Width	1
	AF36	Sill	Frame Width - 38mm	1
	AF7	Weather Bar Bead	Frame Width - 73mm (1) Frame Width - 82mm (2)	2
	-	Gallery	Gallery Height = Frame Height - 38mm	PAIR
LOUVRE BLADE	Altair Louvre (1)		Refer to Pg. 6.22 for formula	
	Aero Louvre (2)		Refer to Pg. 6.23 for formula	

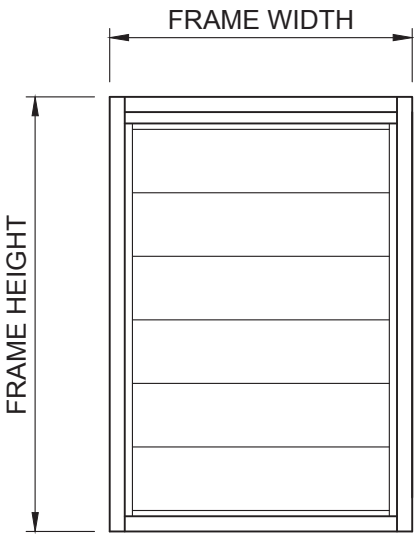
9. Cutting Formulas

50mm Frame - Double Gallery



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	AF35	Jamb	Frame Height - 19mm	2
	AF34	Mullion	Frame Height - 38mm	1
	AF36	Head	Frame Width	1
	AF36	Sill	Frame Width - 38mm	1
	AF7	Weather Bar Bead	Frame Width / 2 - 66.5mm (1) Frame Width / 2 - 75.5 (2)	4
	-	Gallery	Gallery Height = Frame Height - 38mm	2 PAIR
LOUVRE BLADE	Altair Louvre (1)		Refer to Pg. 6.22 for formula	
	Aero Louvre (2)		Refer to Pg. 6.23 for formula	

McArthur Evo Powerlouvre Single Gallery 102mm Blade

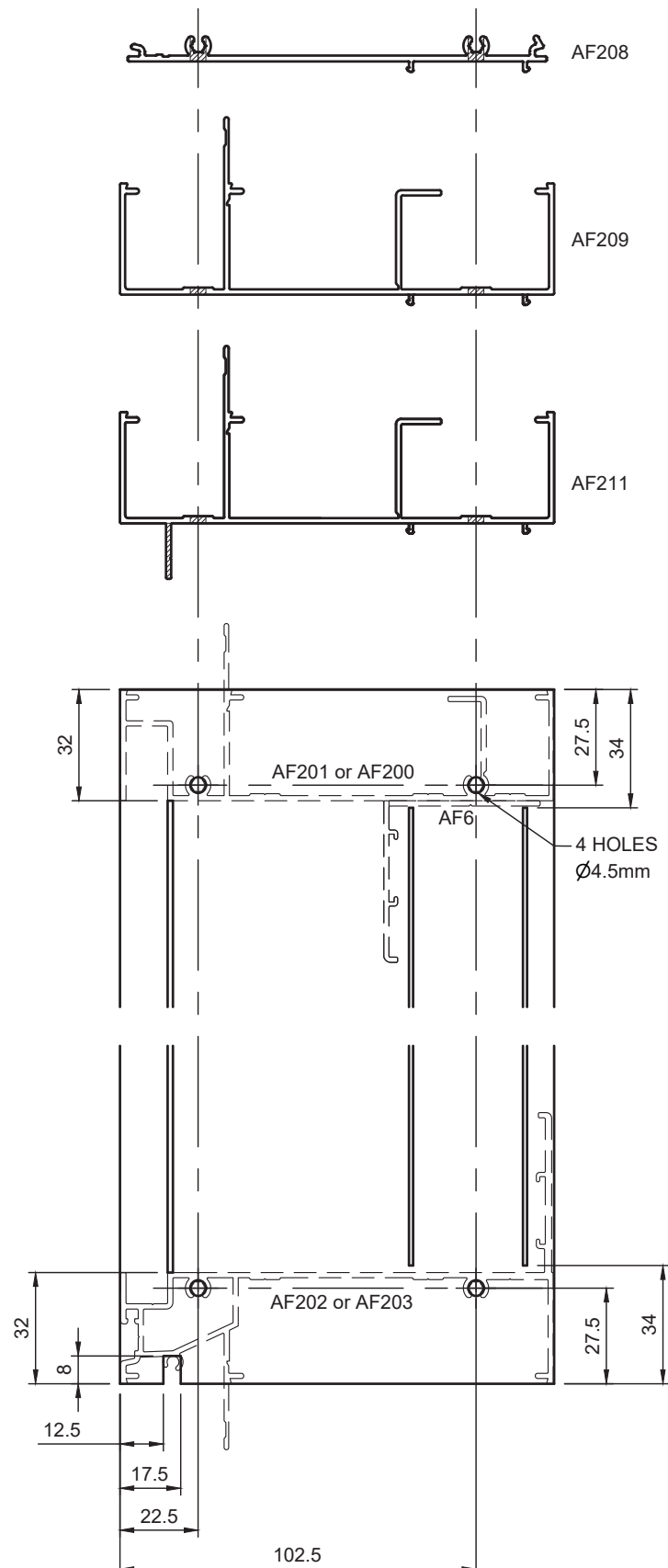


PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	ME1	Jamb	Frame Height	2
	ME8	Pocket Infill	Frame Height	2
	ME1	Head / Sill	Frame Width - 89mm	2
	ME8	Pocket Infill	Frame Width - 89mm	2
	AF41	Gallery Coupler	Frame Height - 149mm	2
-	1643102	Powerlouvre Std Weatherstrip Set CTL	Cut to Length	1
	-	Gallery	Gallery Height = Frame Height - 130mm	PAIR
LOUVRE BLADE	Altair Louvre		Refer to Pg. 6.22 for formula	
	Aero Louvre		Refer to Pg. 6.23 for formula	

Note: Refer hardware pages for Powerlouvre Extended Weatherstrip Set

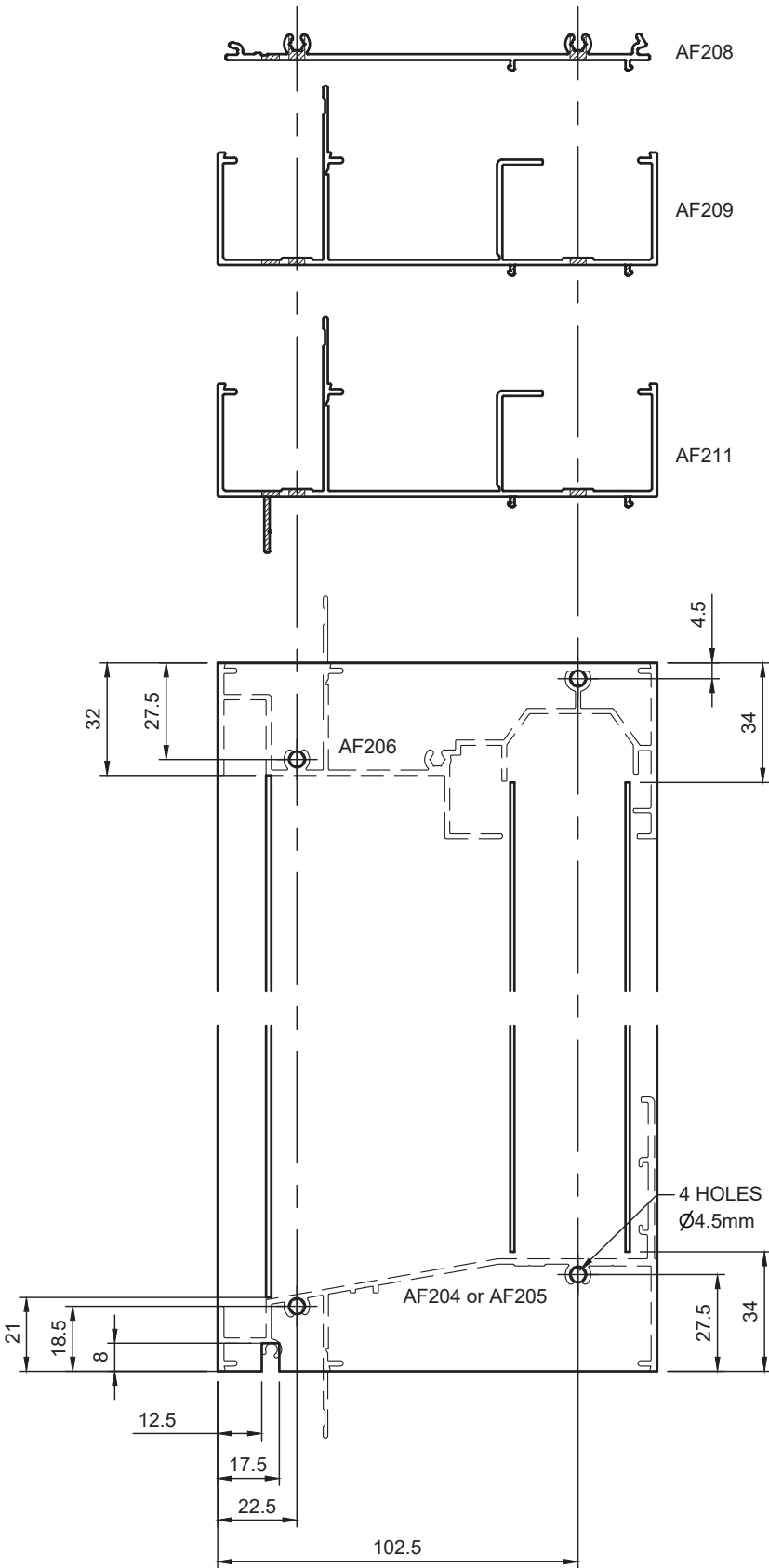
Jamb Preparation - Flat Sill and Head

LH DRAWN
RH OPPOSITE



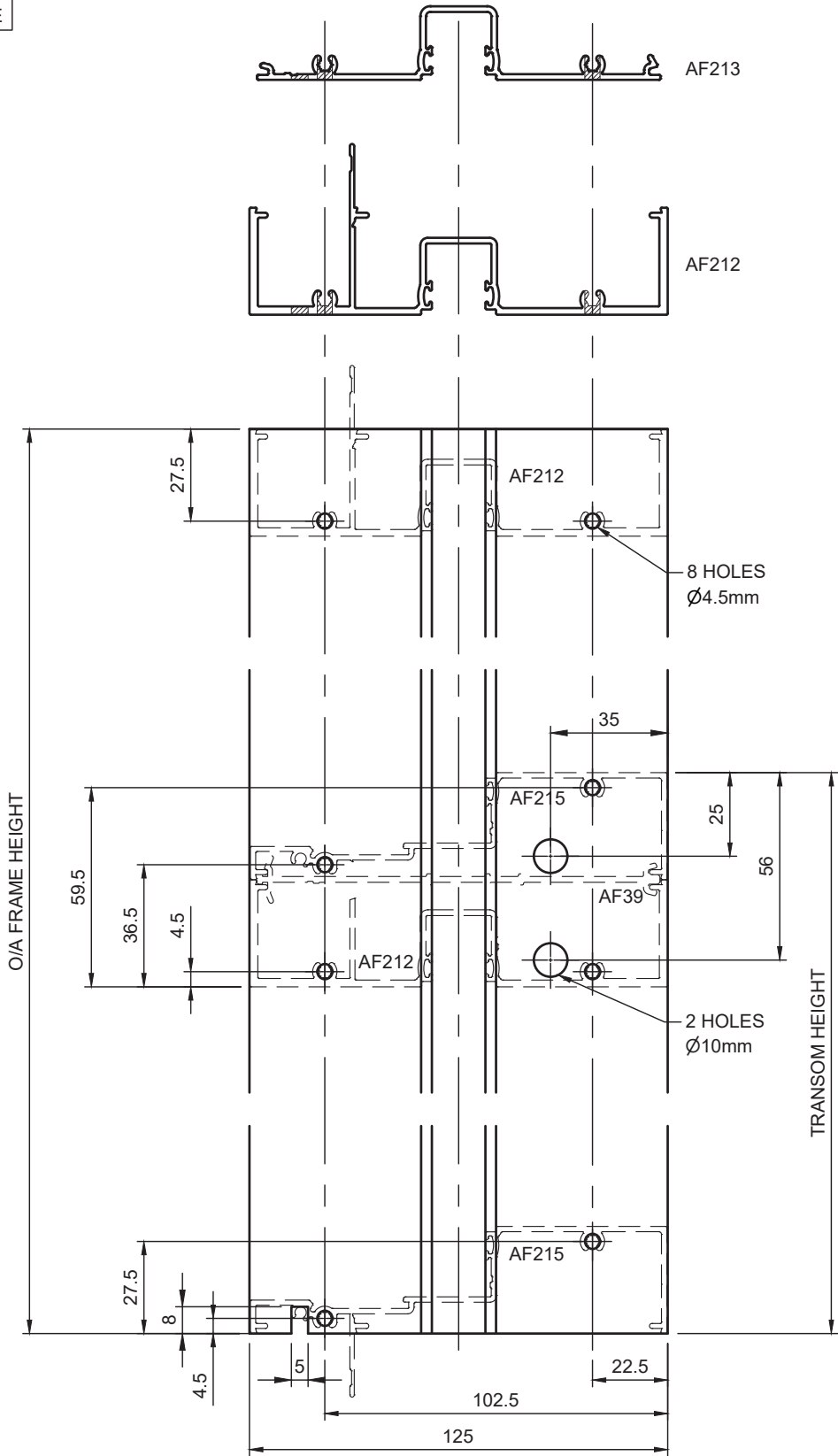
Jamb Preparation - Sloped Sill and Powerlouvre Head

LH DRAWN
RH OPPOSITE



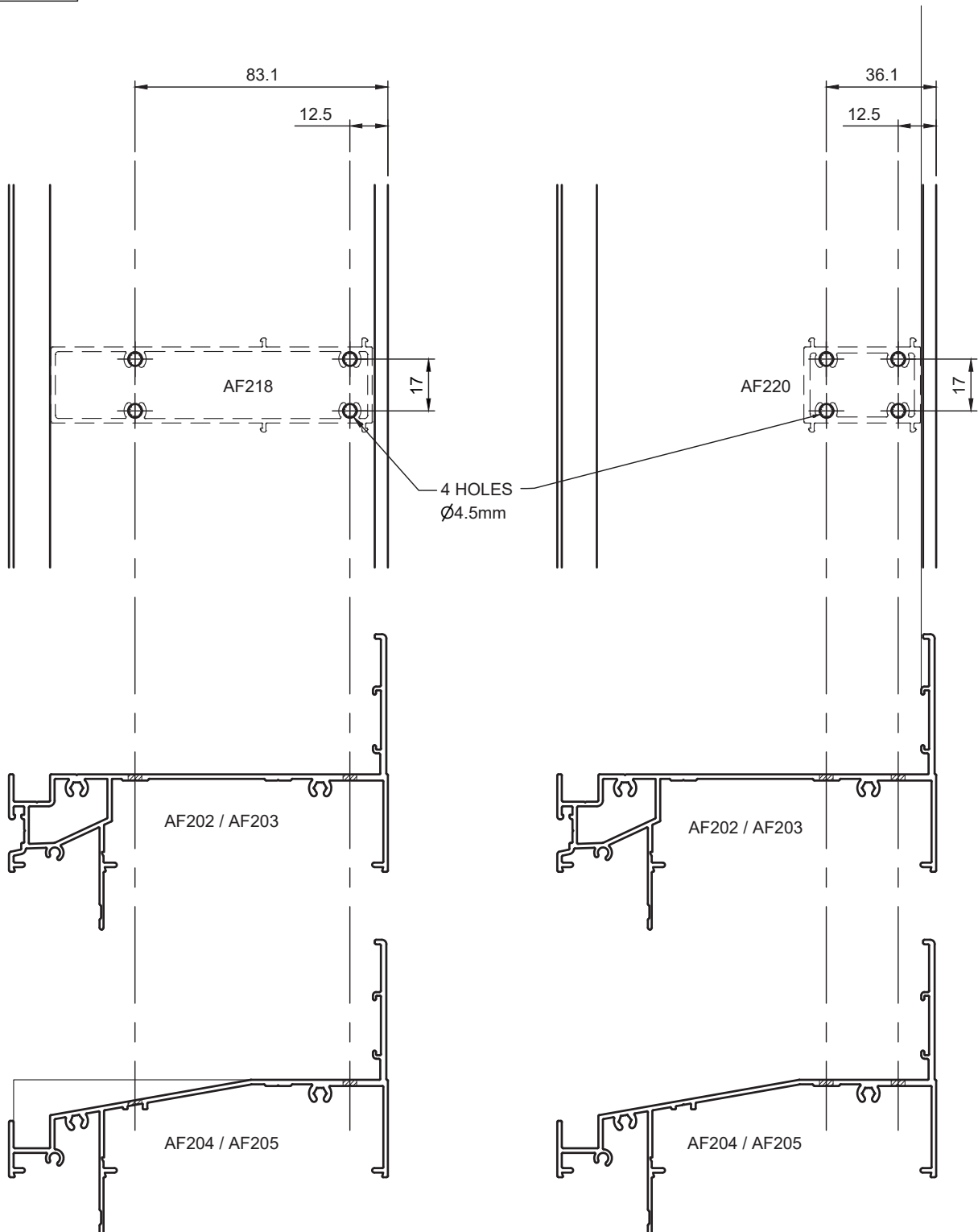
Jamb Preparation - Single Glazed Frame Head, Transom and Sill

LH DRAWN
RH OPPOSITE



Sill Preparation for Louvre Mullions - Run through Sill Details

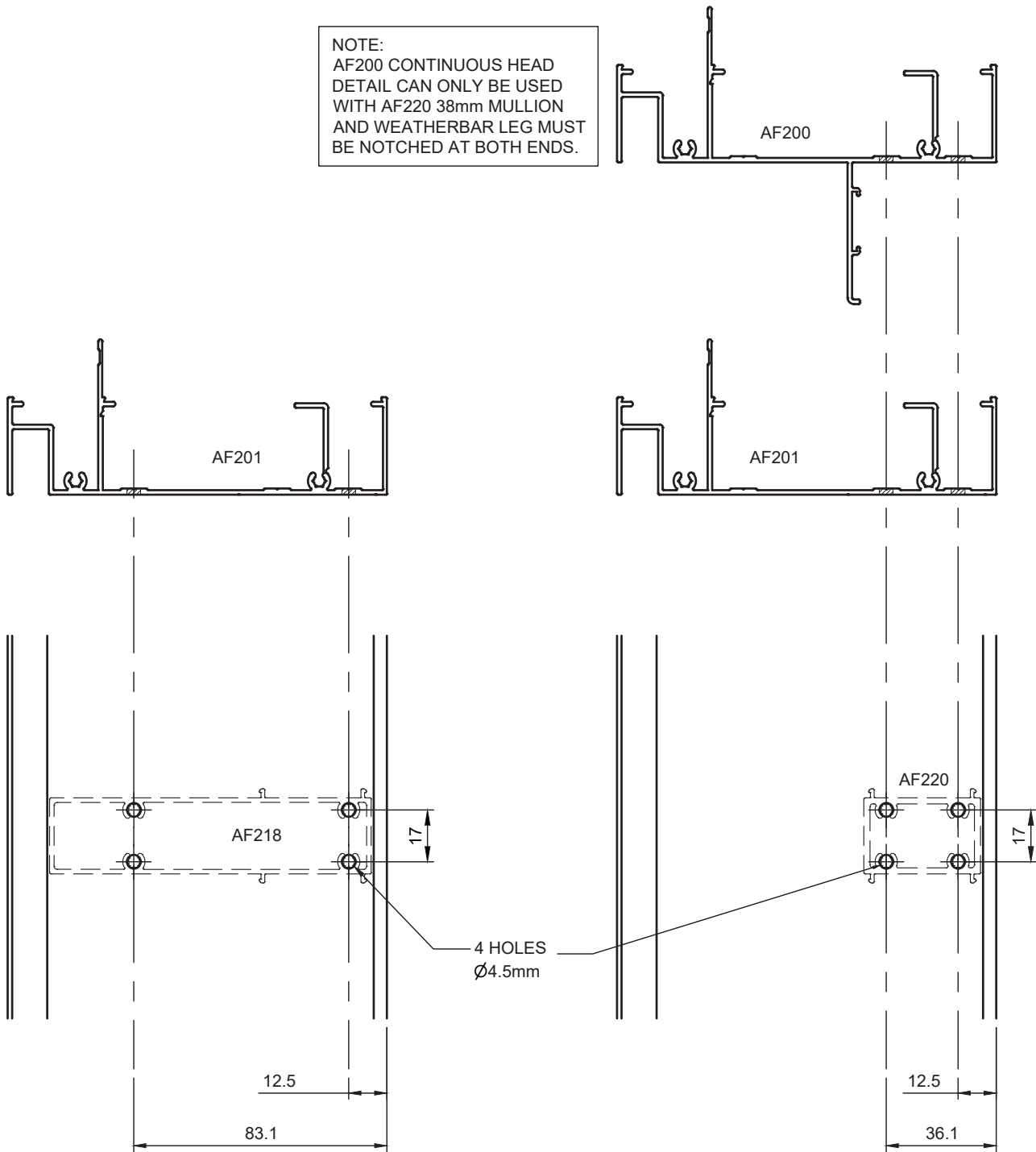
LH DRAWN
RH OPPOSITE



Head Preparation for Louvre Mullions - Run through Head Details

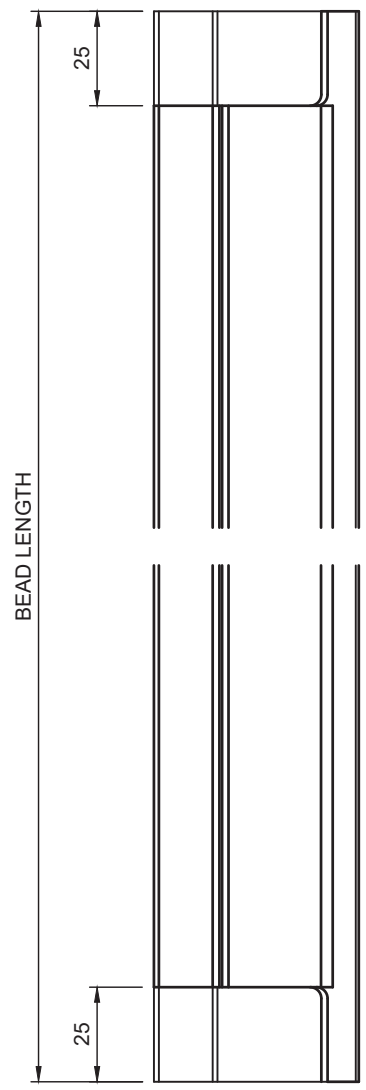
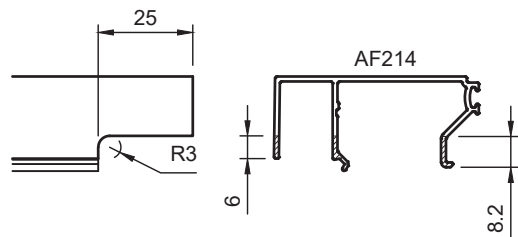
LH DRAWN
RH OPPOSITE

NOTE:
AF200 CONTINUOUS HEAD
DETAIL CAN ONLY BE USED
WITH AF220 38mm MULLION
AND WEATHERBAR LEG MUST
BE NOTCHED AT BOTH ENDS.



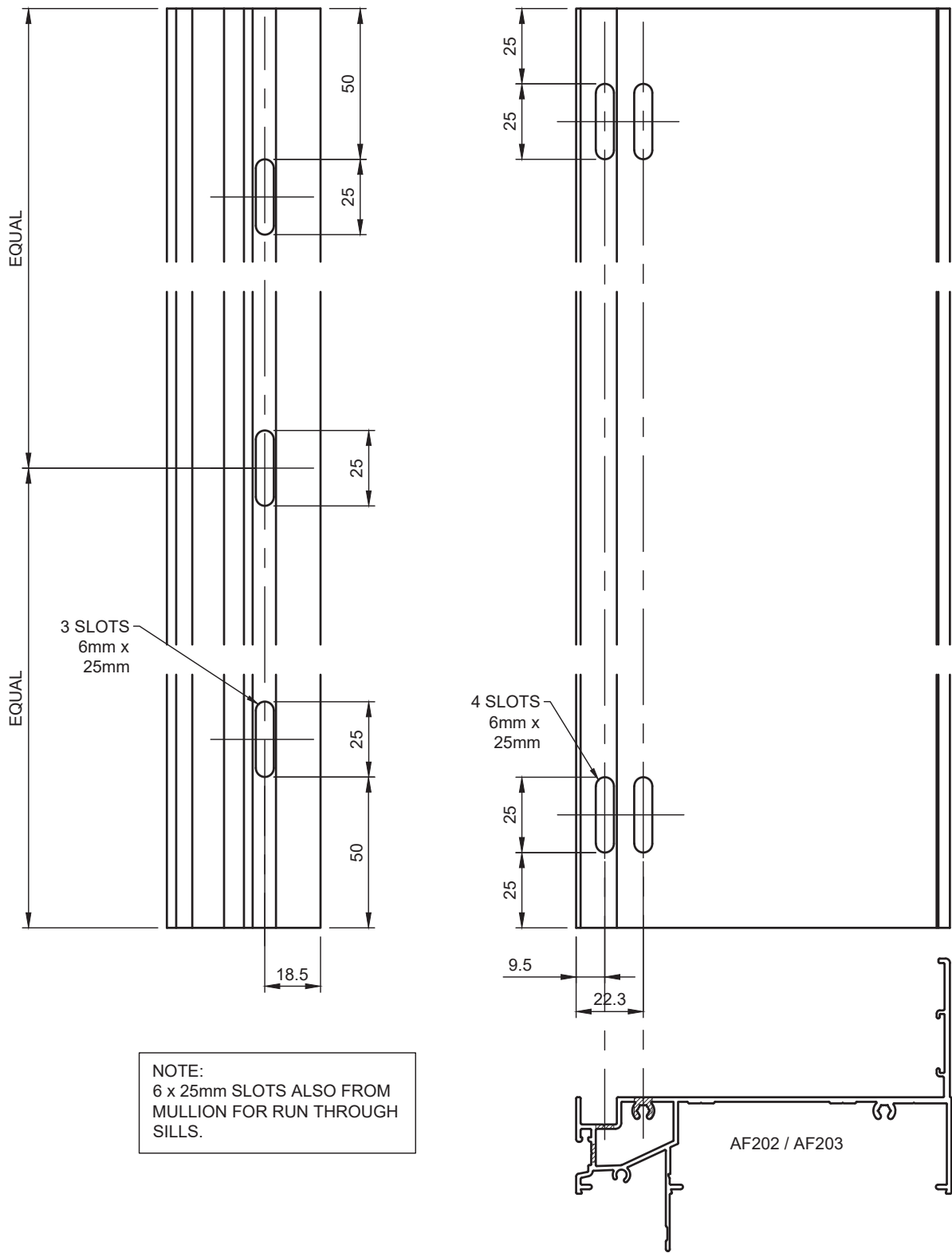
AF214 Transom Bead Drainage

LH DRAWN
RH OPPOSITE



Sill Drainage - AF202 and AF203

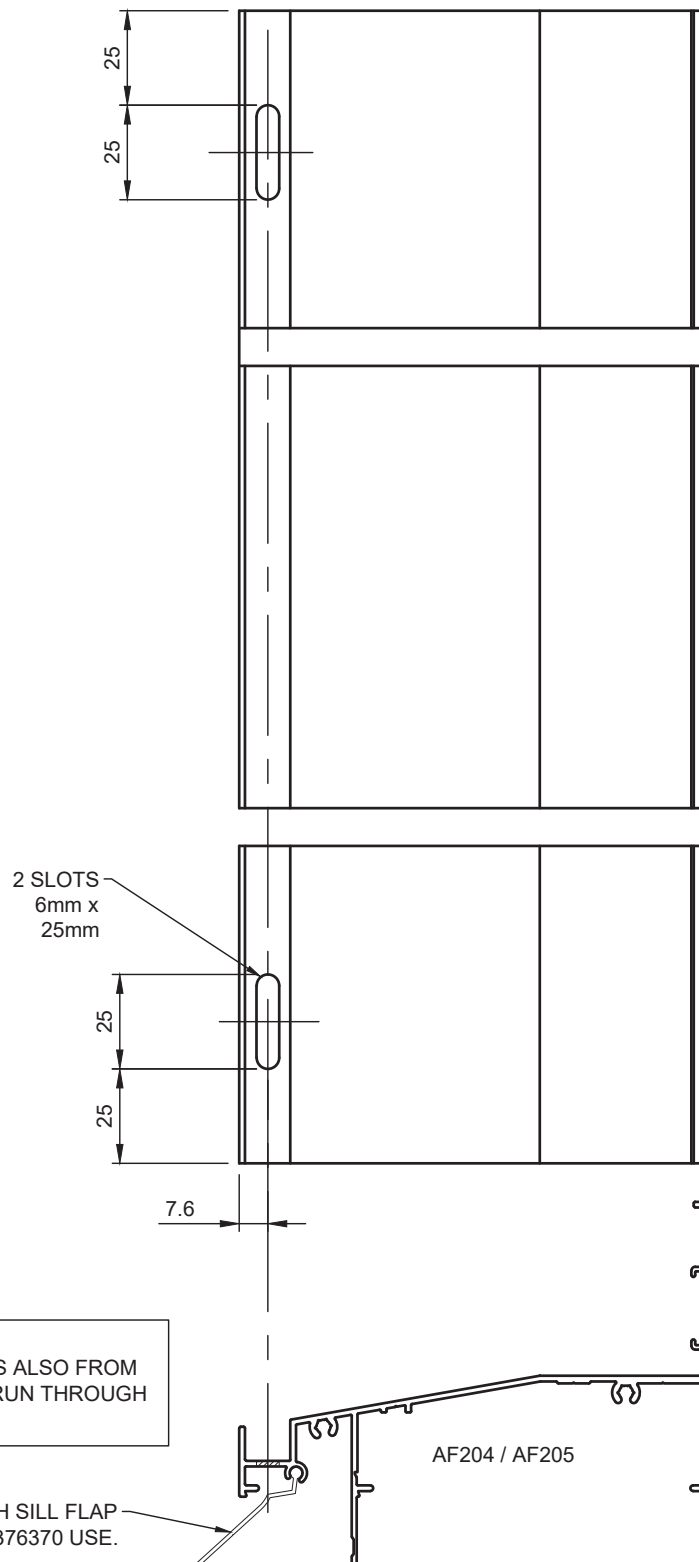
LH DRAWN
RH OPPOSITE



10. Manufacturing Details

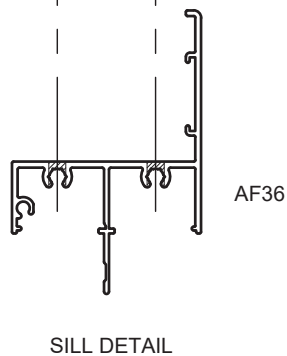
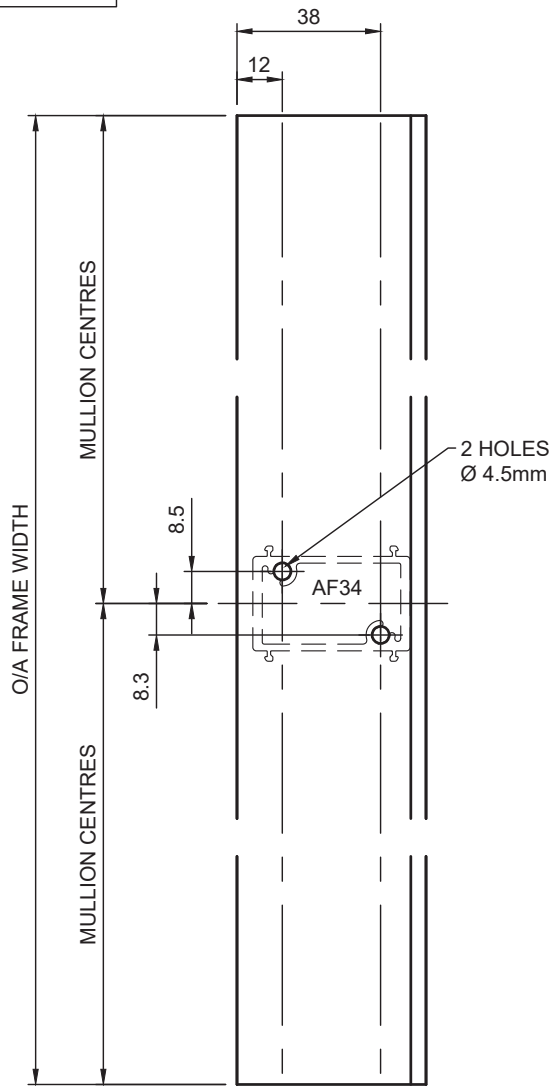
Sill Drainage - AF204 and AF205

LH DRAWN
RH OPPOSITE

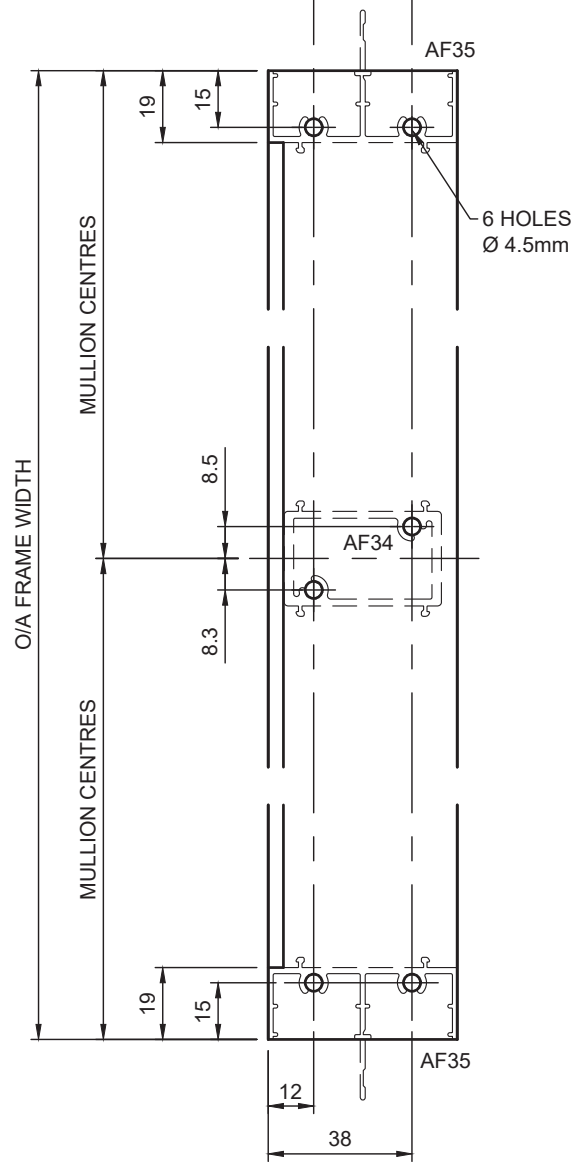
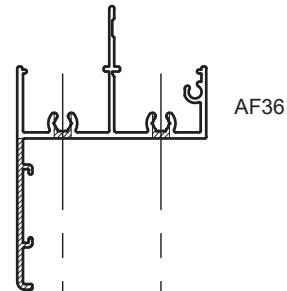


AF36 Head and Sill Preparation Run through - 50mm Framing

LH DRAWN
RH OPPOSITE

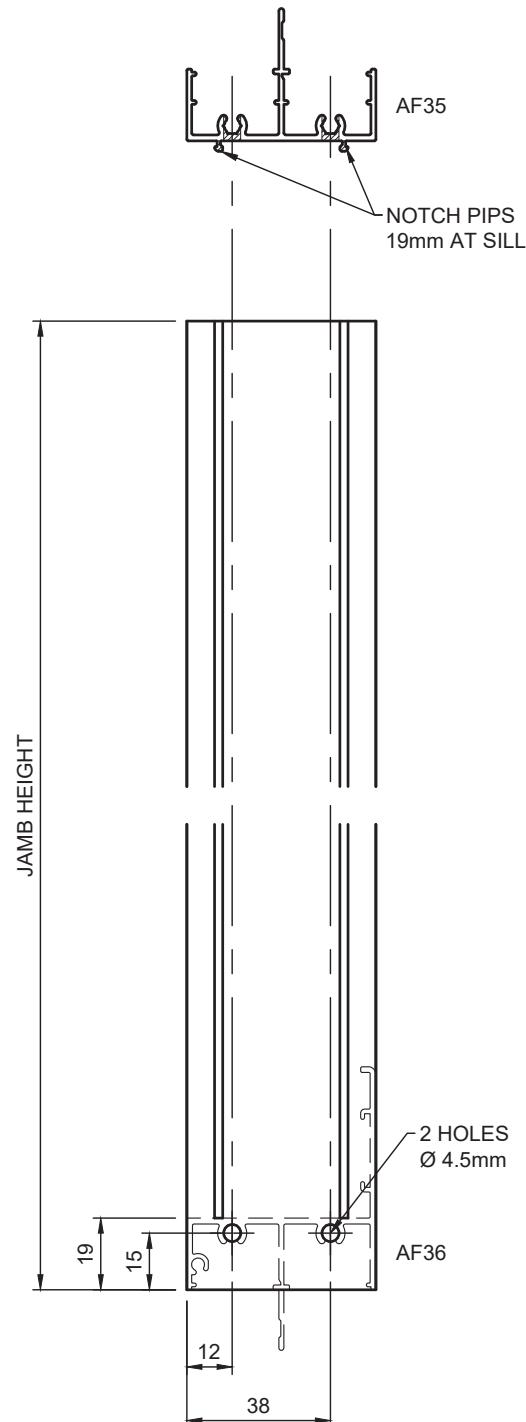


HEAD DETAIL

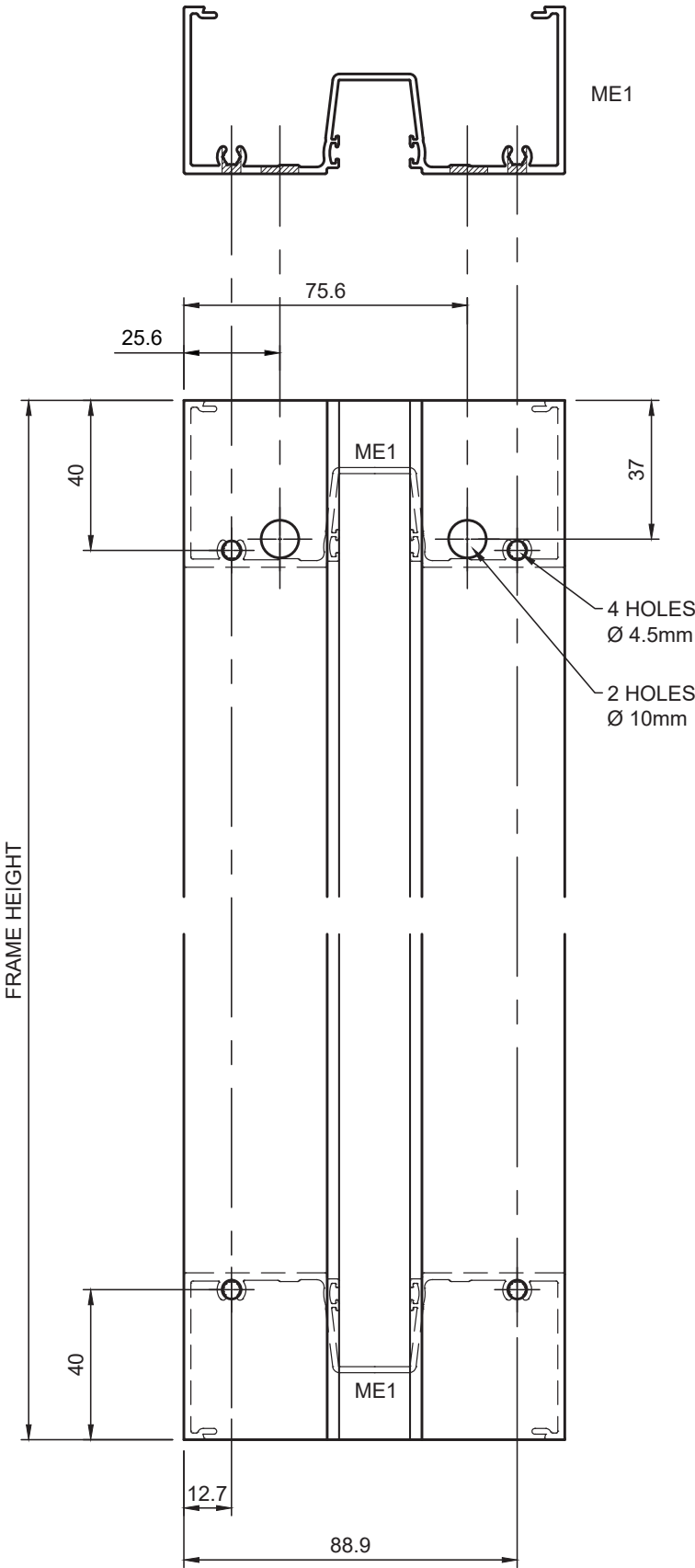


AF35 Jamb Preparation - 50mm Framing Standard and with Run through Head

LH DRAWN
RH OPPOSITE



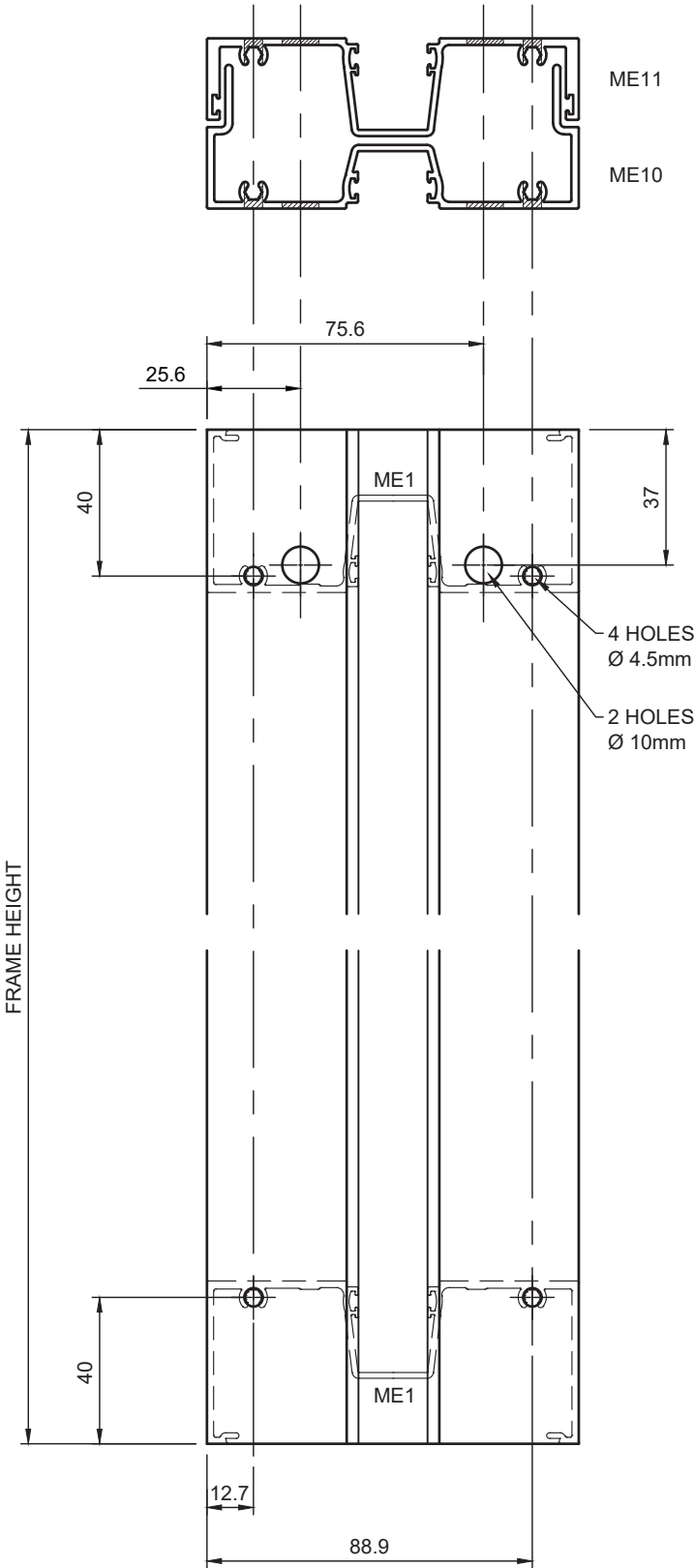
ME1 Jamb Preparation



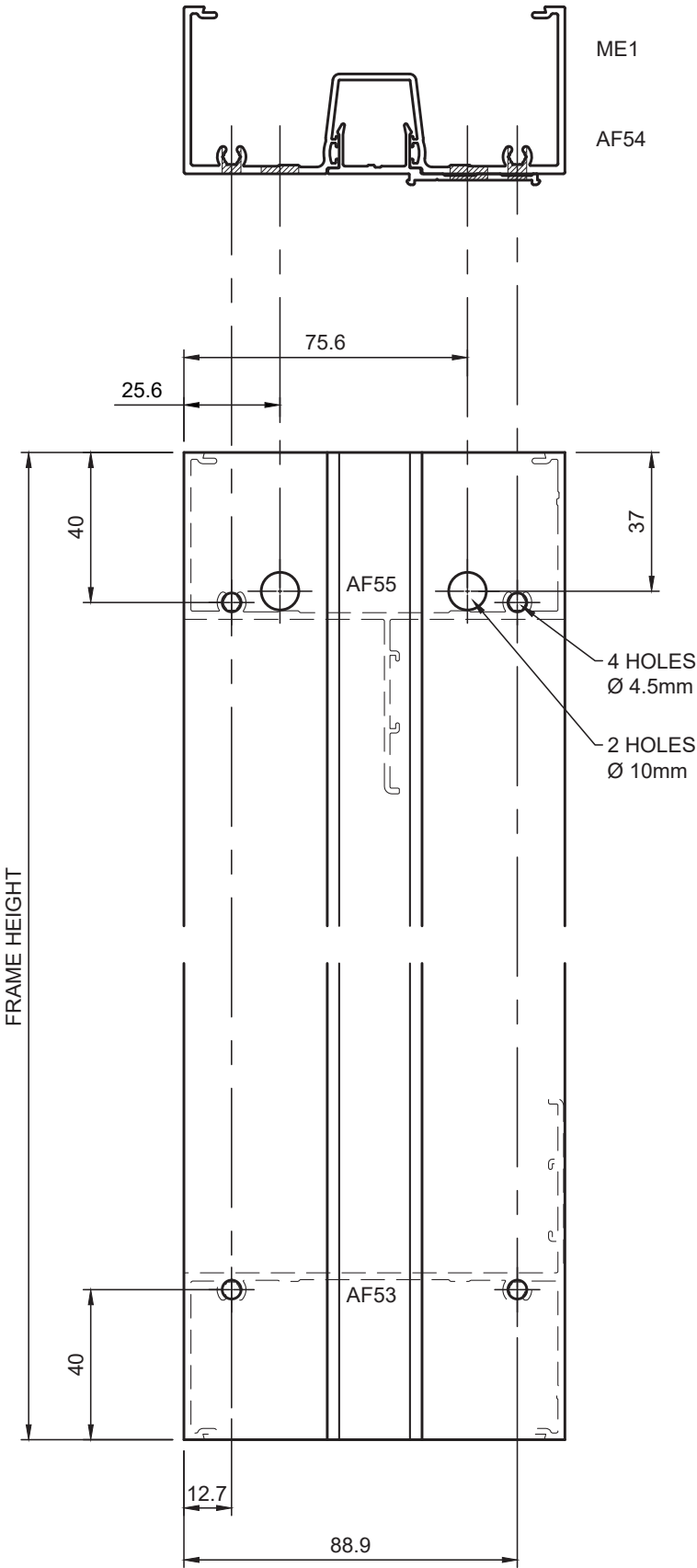
10. Manufacturing Details

ME10 and ME11 Mullion Preparation

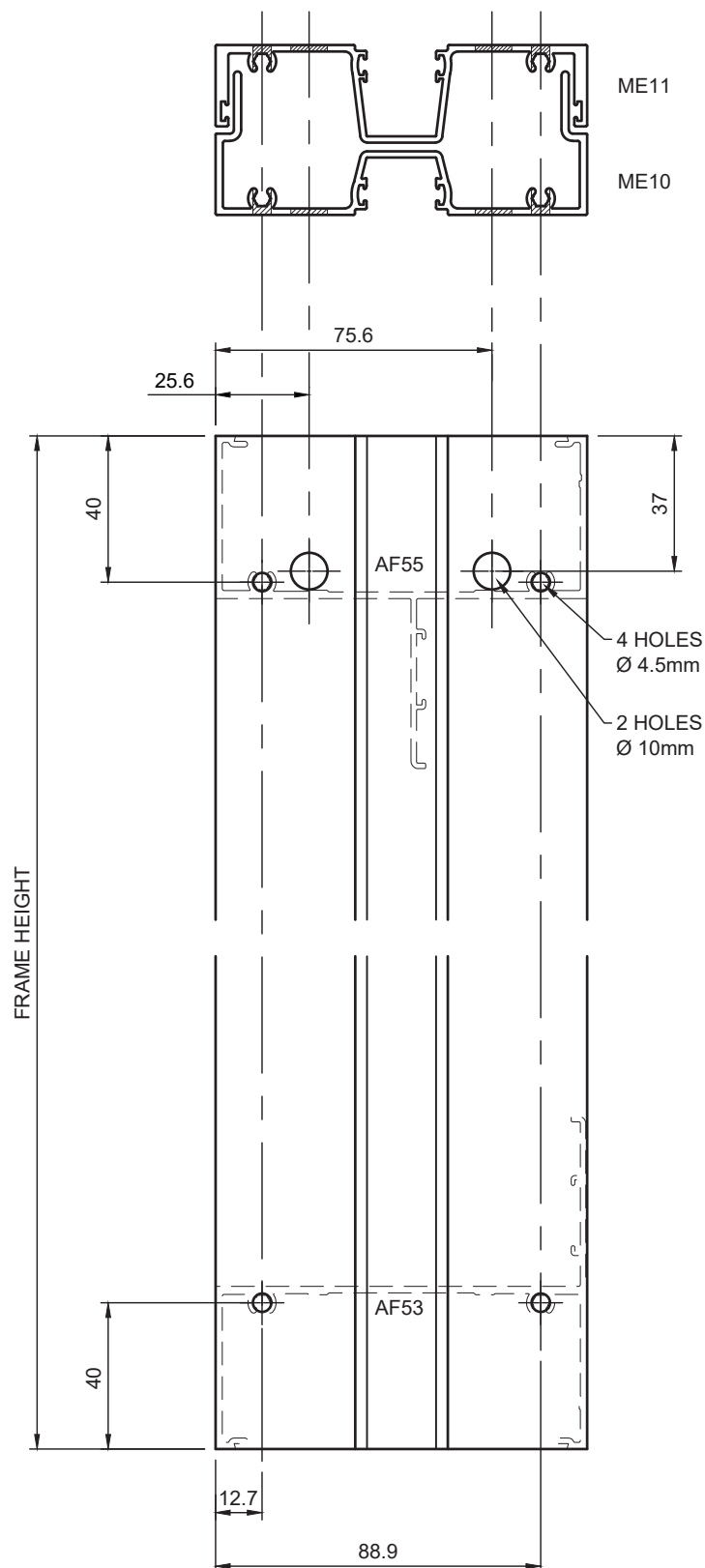
LH DRAWN
RH OPPOSITE



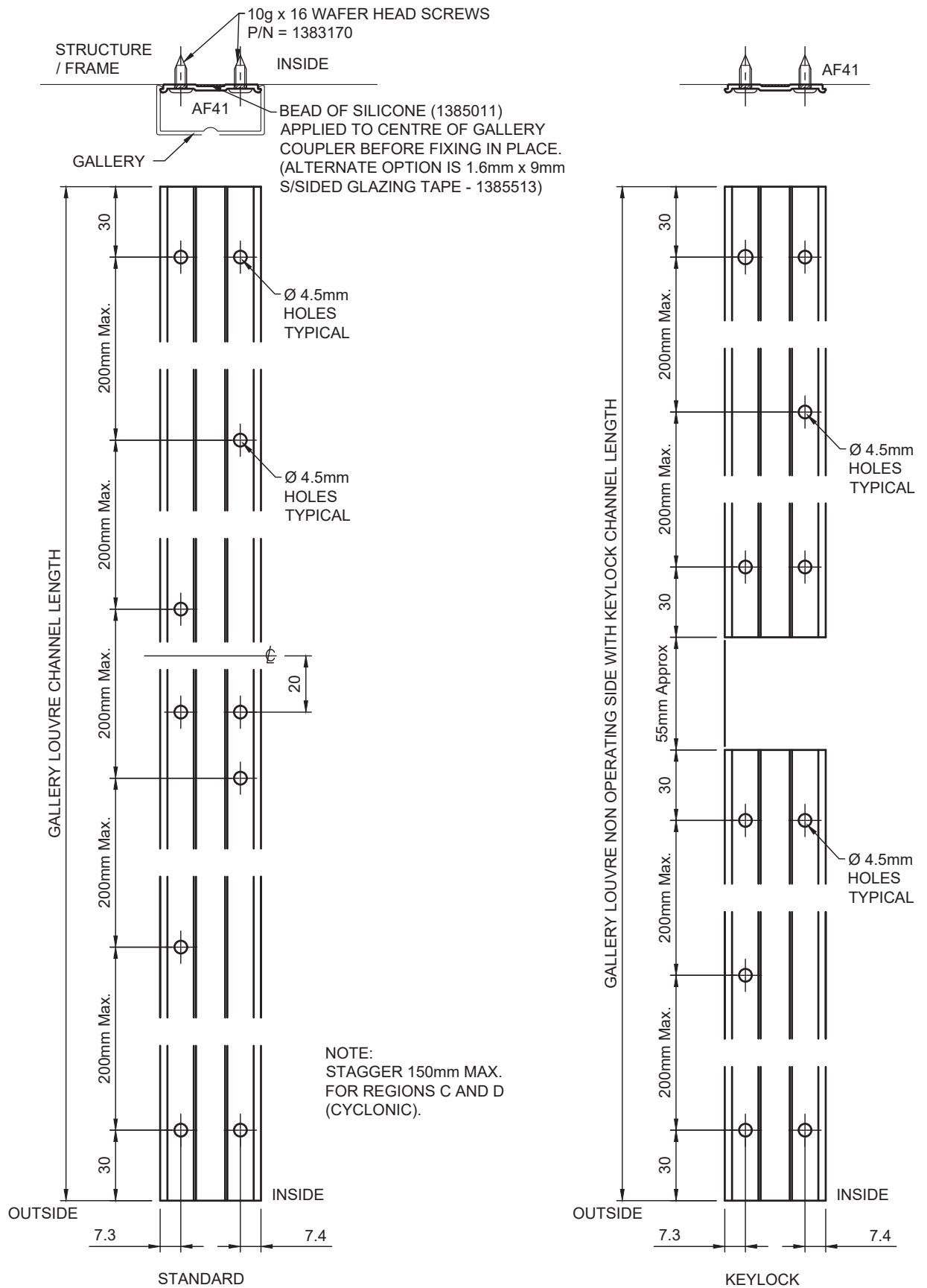
ME1 and AF54 Jamb Preparation for McArthur Evo Louvre Head and Sill



ME10 and ME11 Mullion Preparation for McArthur Evo Louvre Head and Sill



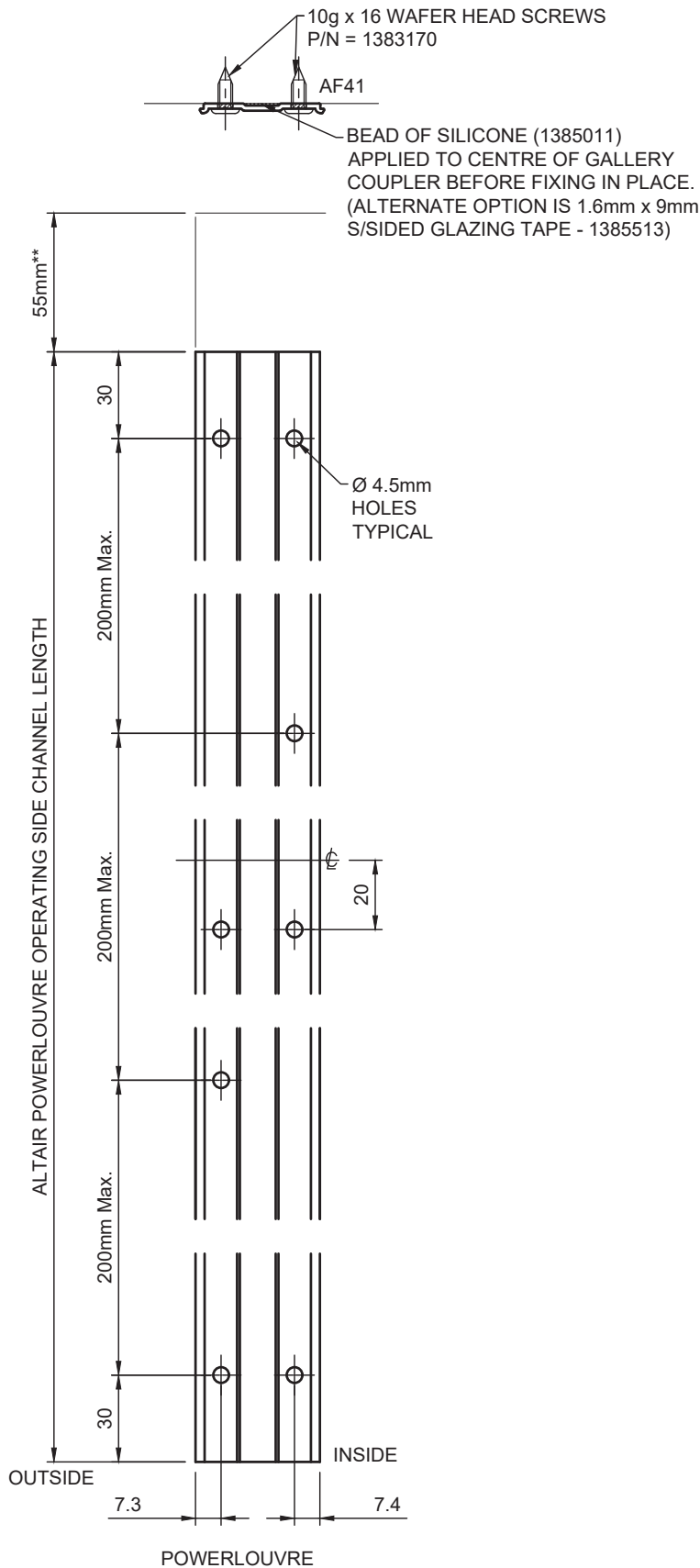
AF41 Gallery Coupler - Non Cyclonic Region (Standard Gallery and Keylock)



AF41 Gallery Coupler - Non Cyclonic Region (Powerlouvre)

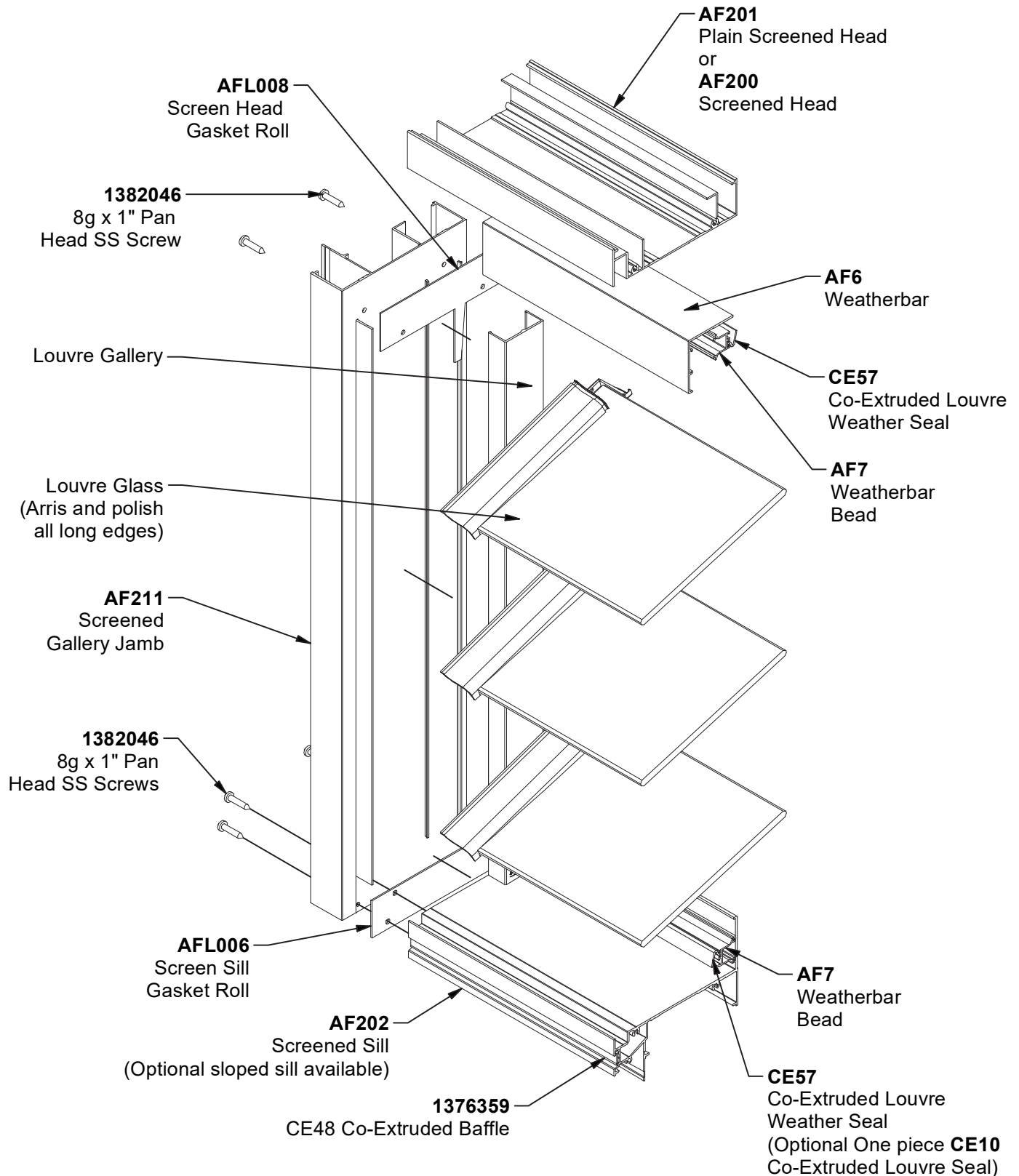
NOTE:
STAGGER 150mm MAX.
FOR REGIONS C AND D
(CYCLONIC).

**AF41 MUST BE CUT 55mm
SHORT OF POWERLOUVRE
WEATHERSTRIP



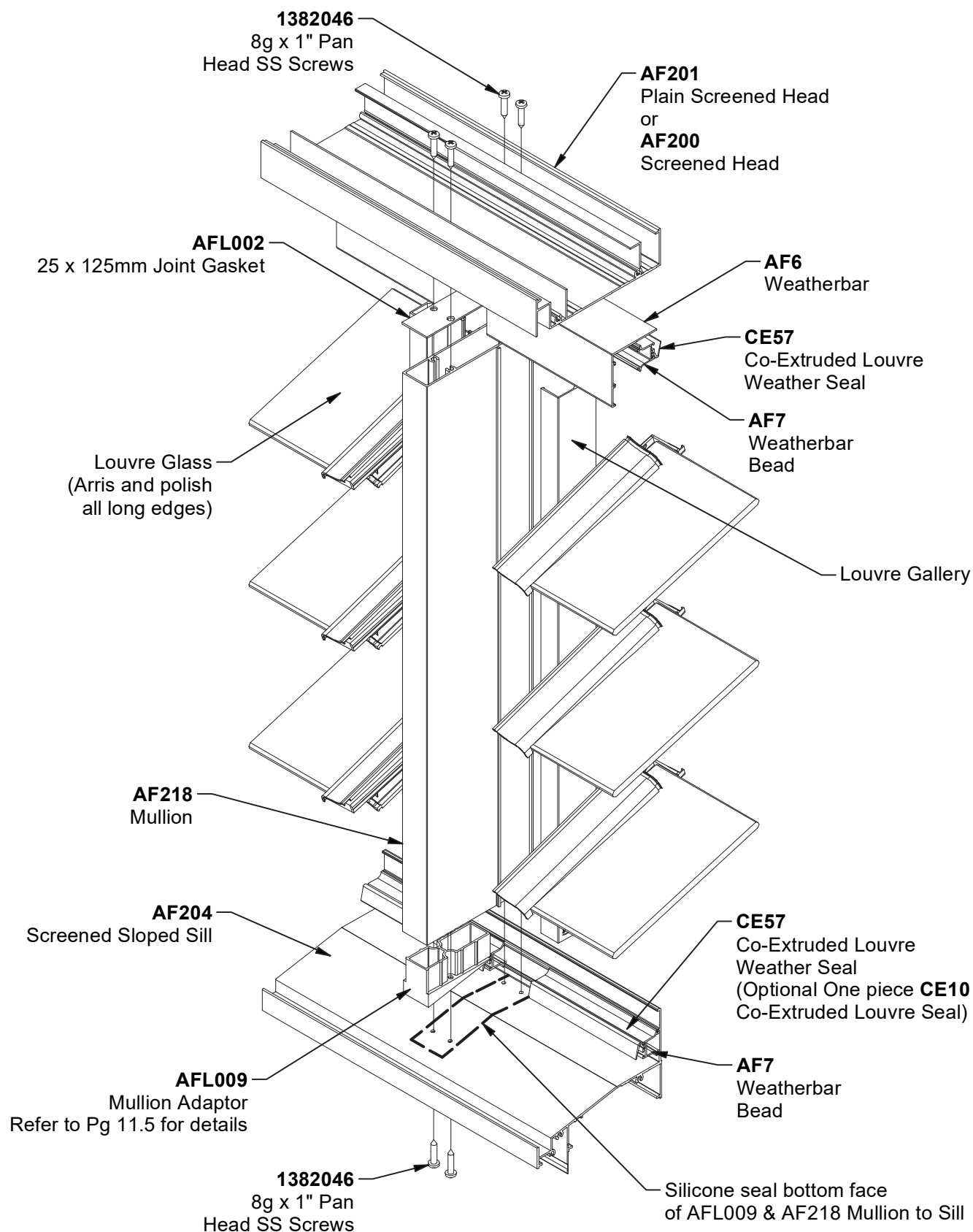
11. Assembly Details

Standard Framing - Head, Sill & Jamb Detail



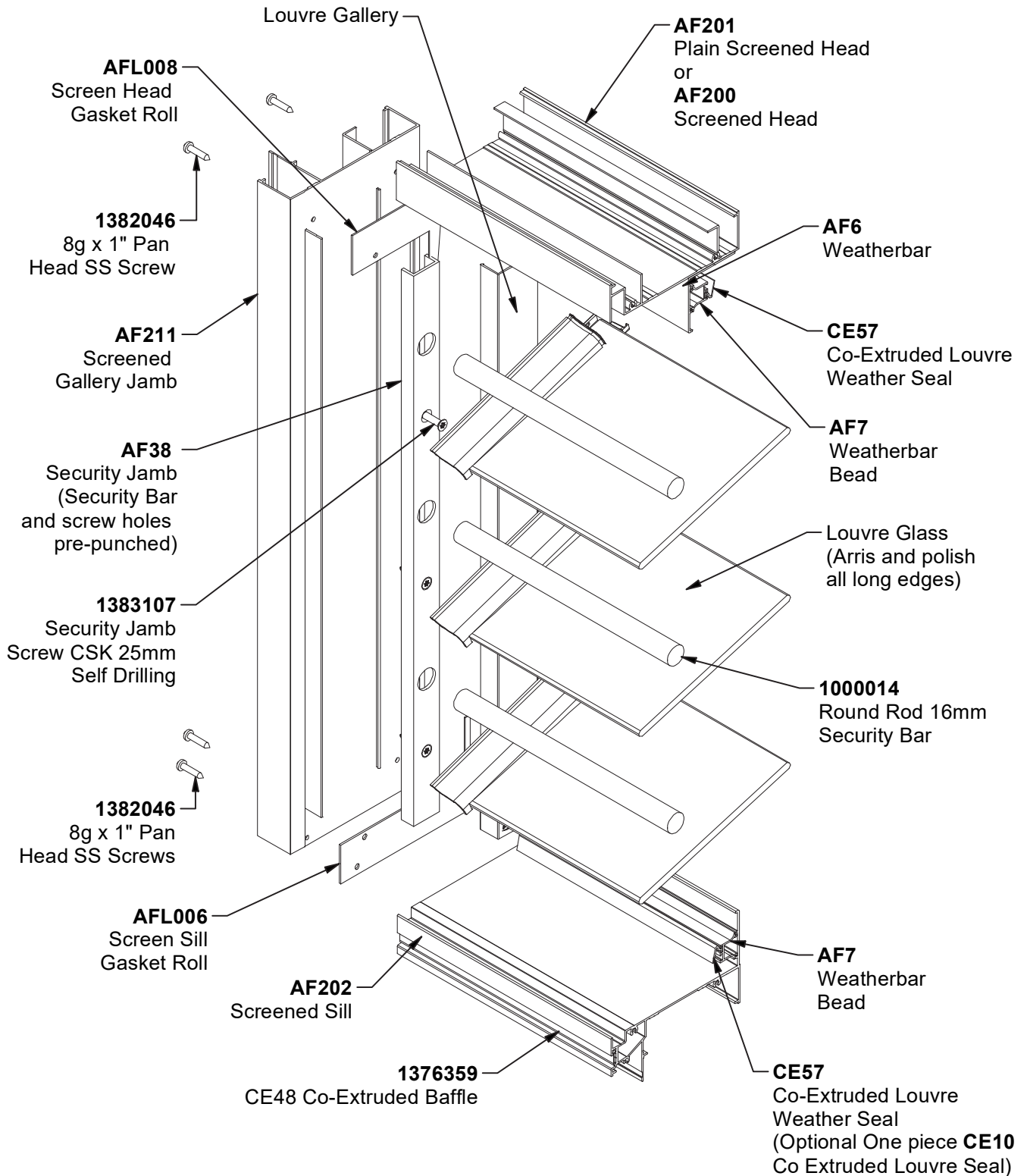
11. Assembly Details

Standard Framing - Run through Head, Sill & Mullion Detail



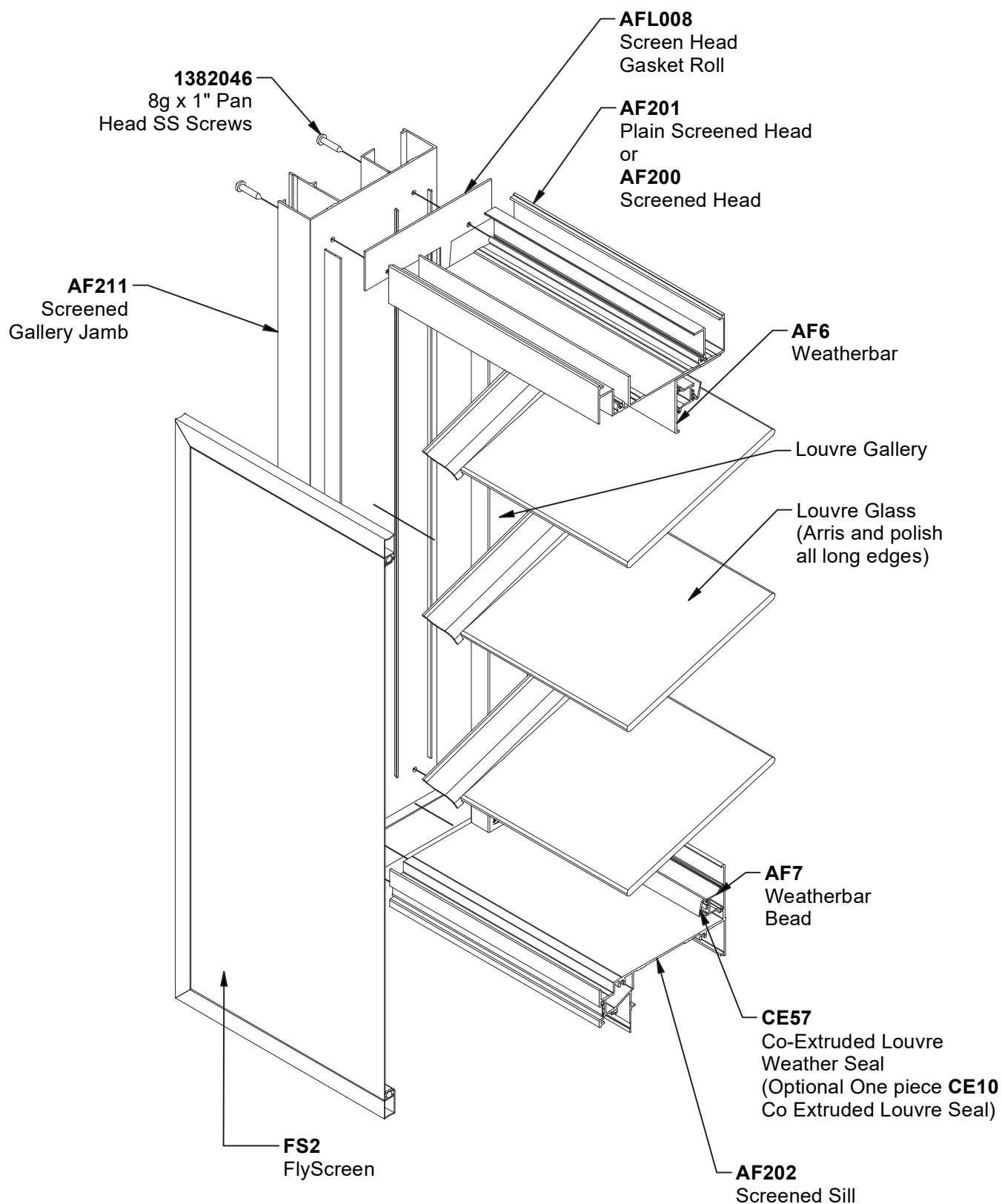
11. Assembly Details

Security Bars - Head, Sill & Jamb Detail



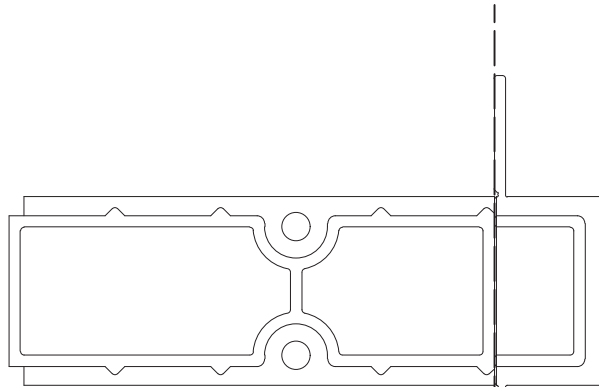
11. Assembly Details

Screen Framing - Head, Sill & Jamb Detail

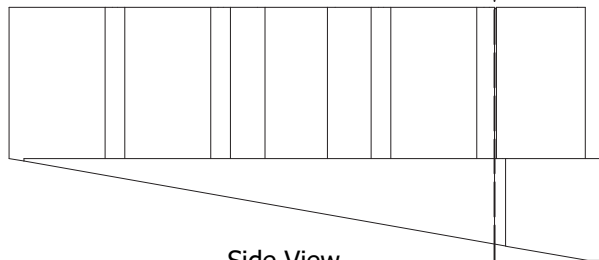


AFL009 Mullion Adaptor

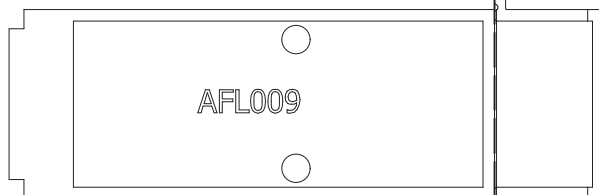
Cut line to suit AF218



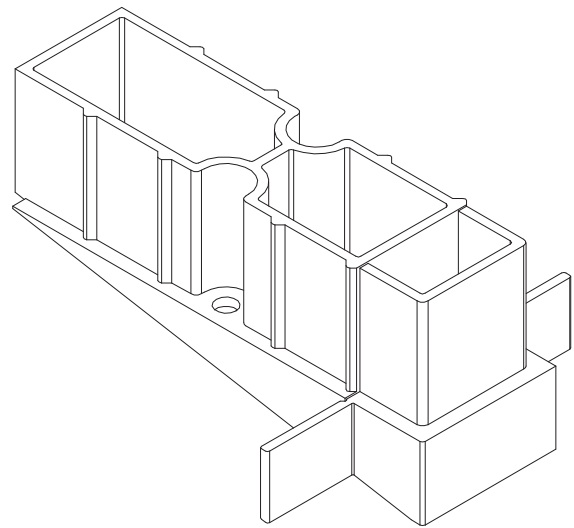
Top View



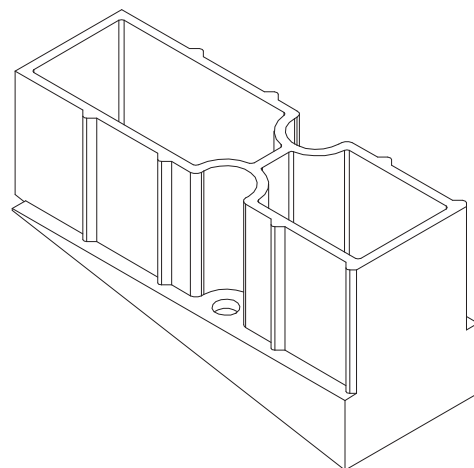
Side View



Bottom View



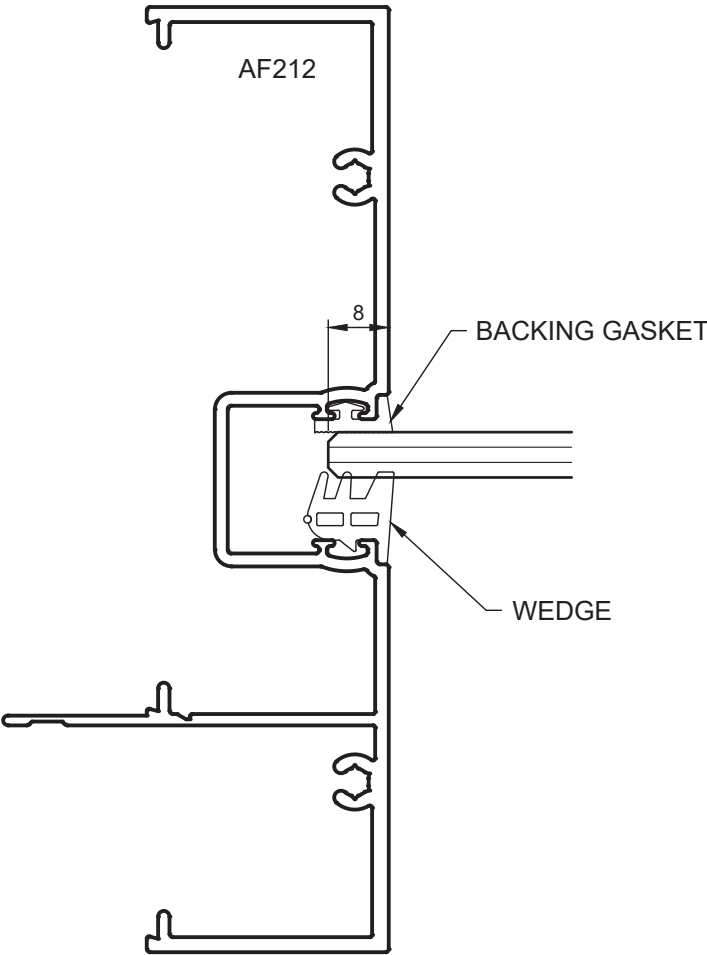
Suited for AF219 Mullion



To suit AF218 Mullion

1. Snap fins off.
2. Cut component following the cut line.

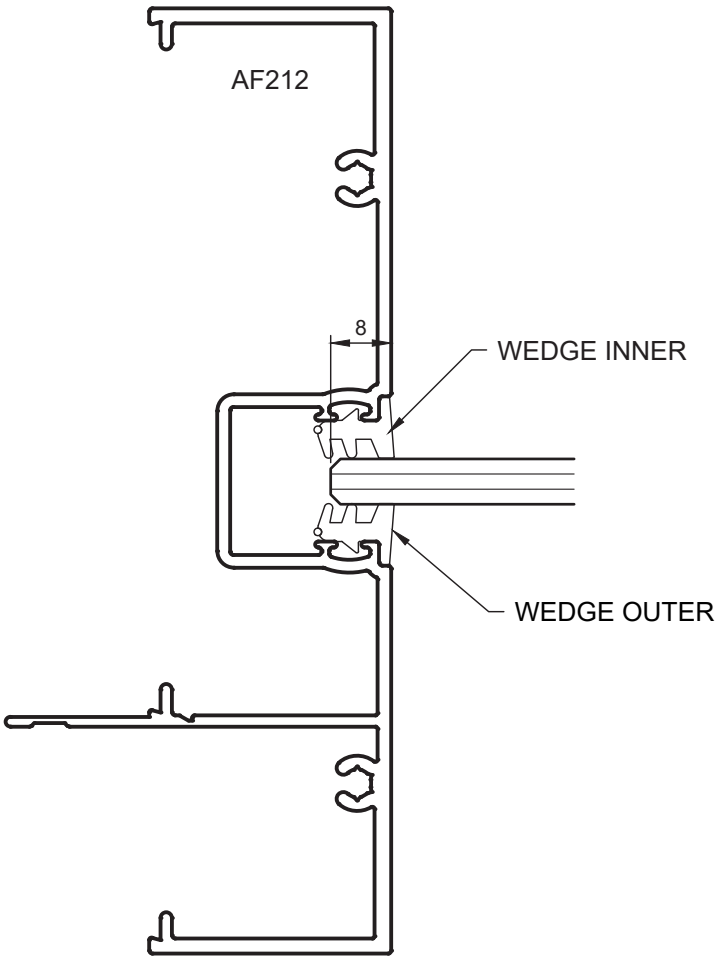
Single Glazed - Captive



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

Note: For window systems requiring a higher weather resistant, Santoprene is the recommended material to be applied. Reference S after the part number for this selection e.g. GR48S or CE36S.

Single Glazed - Non Captive



	WEDGE INNER		WEDGE OUTER	
GLASS THICKNESS	ID COLOUR	REF. (GAP)	ID COLOUR	REF. (GAP)
4mm	YELLOW	GR46 (6mm)	YELLOW	GR46 (6mm)
5mm	YELLOW	GR46 (6mm)	BLUE	GR45 (5mm)
6mm - 6.38mm	BLUE	GR45 (5mm)	BLUE	GR45 (5mm)
8mm - 8.38mm	WHITE	GR44 (4mm)	WHITE	GR44 (4mm)
10mm - 10.38mm	PURPLE	GR42 (2.5mm)	BROWN	GR43 (3mm)

Note: For window systems requiring a higher weather resistant, Santoprene is the recommended material to be applied. Reference S after the part number for this selection e.g. GR45S.

13. Care & Maintenance

FRAMING

Your new **Air-Flo Plus 125mm Louvre Framing** has been manufactured using the highest quality materials available to the Architectural industry. Constructed from Architectural grade aluminium, these products are highly corrosion resistant and exceptionally strong. With a moderate amount of maintenance, the **Air-Flo Plus 125mm Louvre Framing** frame will retain it's good looks and resist the elements for years to come.

The **Air-Flo Plus 125mm Louvre 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 **Air-Flo Plus 125mm Louvre Framing** frames should only ever need to be washed down with a soft bristled brush using warm water and mild detergent. Rinse well with fresh water and remove any detergent residue. Strong detergents and abrasive cleaners should never be used to clean the **Air-Flo Plus 125mm Louvre 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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bundaberg@alspec.com.au

CARRUM DOWNS

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All pictures shown in this catalogue are for illustration purposes only. Actual product may vary due to product enhancement.



Aero & Altair Louvre Gallery Selection Chart

Louvre Gallery Selection Chart

Standard Aero Louvre Gallery Features:

- Left hand control i.e. handle positioned on the left hand side (viewed from inside)
- Standard Handle
- 102mm and 152mm glass blade options
- Black, White and Grey clips and standard handles to match are the standard colour finishes
- Range of Louvre gallery heights as per chart

Custom Aero Louvre Gallery Features:

- Right hand control i.e. handle positioned on the right hand side (viewed from inside)
- Restricted openings for 102mm & 152mm Galleries
- Low Profile Handle option
- Ring Pull Handle option
- Pre punched channel gallery for screw fixing assembly



Image shown above is a standard LH configuration with a standard handle in black.

Louvre Gallery Selection Chart

152mm Aero Gallery Standard Handle

QTY OF BLADES	GALLERY HEIGHT (mm)	DESCRIPTION	LH NO SCREW HOLE	RH NO SCREW HOLE	LH SCREW HOLE	RH SCREW HOLE	LH NO SCREW HOLE RESTRICTED	RH NO SCREW HOLE RESTRICTED	LH SCREW HOLE RESTRICTED	RH SCREW HOLE RESTRICTED
2	320	AERO 152mm 2B	4646002	4646402	4646202	4646602	4643602	4645902	4643702	4646902
3	460	AERO 152mm 3B	4646003	4646403	4646203	4646603	4643603	4645903	4643703	4646903
4	600	AERO 152mm 4B	4646004	4646404	4646204	4646604	4643604	4645904	4643704	4646904
5	740	AERO 152mm 5B	4646005	4646405	4646205	4646605	4643605	4645905	4643705	4646905
6	880	AERO 152mm 6B	4646006	4646406	4646206	4646606	4643606	4645906	4643706	4646906
7	1020	AERO 152mm 7B	4646007	4646407	4646207	4646607	4643607	4645907	4643707	4646907
8	1160	AERO 152mm 8B	4646008	4646408	4646208	4646608	4643608	4645908	4643708	4646908
9	1300	AERO 152mm 9B	4646009	4646409	4646209	4646609	4643609	4645909	4643709	4646909
10	1440	AERO 152mm 10B	4646010	4646410	4646210	4646610	4643610	4645910	4643710	4646910
11	1580	AERO 152mm 11B	4646011	4646411	4646211	4646611	4643611	4645911	4643711	4646911
12	1720	AERO 152mm 12B	4646012	4646412	4646212	4646612	4643612	4645912	4643712	4646912
13	1860	AERO 152mm 13B	4646013	4646413	4646213	4646613	4643613	4645913	4643713	4646913
14	2000	AERO 152mm 14B	4646014	4646414	4646214	4646614	4643614	4645914	4643714	4646914
15	2140	AERO 152mm 15B	4646015	4646415	4646215	4646615	4643615	4645915	4643715	4646915
16	2280	AERO 152mm 16B	4646016	4646416	4646216	4646616	4643616	4645916	4643716	4646916
17	2420	AERO 152mm 17B	4646017	4646417	4646217	4646617	4643617	4645917	4643717	4646917
18	2560	AERO 152mm 18B	4646018	4646418	4646218	4646618	4643618	4645918	4643718	4646918
19	2700	AERO 152mm 19B	4646019	4646419	4646219	4646619	4643619	4645919	4643719	4646919
20	2840	AERO 152mm 20B	4646020	4646420	4646220	4646620	4643620	4645920	4643720	4646920
21	2980	AERO 152mm 21B	4646021	4646421	4646221	4646621	4643621	4645921	4643721	4646921

152mm Aero Gallery + Extension Standard Handle

QTY OF BLADES	GALLERY HEIGHT (mm)	DESCRIPTION + EXTENSION	LH NO SCREW HOLE	RH NO SCREW HOLE	LH SCREW HOLE	RH SCREW HOLE	LH NO SCREW HOLE RESTRICTED	RH NO SCREW HOLE RESTRICTED	LH SCREW HOLE RESTRICTED	RH SCREW HOLE RESTRICTED
2	460	AERO 152mm 2B	4646102	4646502	4646302	4646702	4643802	4647202	4643902	4647302
3	600	AERO 152mm 3B	4646103	4646503	4646303	4646703	4643803	4647203	4643903	4647303
4	740	AERO 152mm 4B	4646104	4646504	4646304	4646704	4643804	4647204	4643904	4647304
5	880	AERO 152mm 5B	4646105	4646505	4646305	4646705	4643805	4647205	4643905	4647305
6	1020	AERO 152mm 6B	4646106	4646506	4646306	4646706	4643806	4647206	4643906	4647306
7	1160	AERO 152mm 7B	4646107	4646507	4646307	4646707	4643807	4647207	4643907	4647307
8	1300	AERO 152mm 8B	4646108	4646508	4646308	4646708	4643808	4647208	4643908	4647308
9	1440	AERO 152mm 9B	4646109	4646509	4646309	4646709	4643809	4647209	4643909	4647309
10	1580	AERO 152mm 10B	4646110	4646510	4646310	4646710	4643810	4647210	4643910	4647310
11	1720	AERO 152mm 11B	4646111	4646511	4646311	4646711	4643811	4647211	4643911	4647311
12	1860	AERO 152mm 12B	4646112	4646512	4646312	4646712	4643812	4647212	4643912	4647312
13	2000	AERO 152mm 13B	4646113	4646513	4646313	4646713	4643813	4647213	4643913	4647313
14	2140	AERO 152mm 14B	4646114	4646514	4646314	4646714	4643814	4647214	4643914	4647314
15	2280	AERO 152mm 15B	4646115	4646515	4646315	4646715	4643815	4647215	4643915	4647315
16	2420	AERO 152mm 16B	4646116	4646516	4646316	4646716	4643816	4647216	4643916	4647316
17	2560	AERO 152mm 17B	4646117	4646517	4646317	4646717	4643817	4647217	4643917	4647317
18	2700	AERO 152mm 18B	4646118	4646518	4646318	4646718	4643818	4647218	4643918	4647318
19	2840	AERO 152mm 19B	4646119	4646519	4646319	4646719	4643819	4647219	4643919	4647319
20	2980	AERO 152mm 20B	4646120	4646520	4646320	4646720	4643820	4647220	4643920	4647320

Finishes available:

- Pearl White (010) - Satin Black (059) - Clear Anodise (093)

Louvre Gallery Selection Chart

152mm Aero Gallery Low Profile (LP) Handle

QTY OF BLADES	GALLERY HEIGHT (mm)	DESCRIPTION	LH NO SCREW HOLE	RH NO SCREW HOLE	LH SCREW HOLE	RH SCREW HOLE	LH NO SCREW HOLE RESTRICTED	RH NO SCREW HOLE RESTRICTED	LH SCREW HOLE RESTRICTED	RH SCREW HOLE RESTRICTED
2	320	AERO 152mm 2B	4647899	4647102	4647722	4647742	4648802	4642402	4648902	4642502
3	460	AERO 152mm 3B	4647900	4647103	4647723	4647743	4648803	4642403	4648903	4642503
4	600	AERO 152mm 4B	4647901	4647104	4647724	4647744	4648804	4642404	4648904	4642504
5	740	AERO 152mm 5B	4647902	4647105	4647725	4647745	4648805	4642405	4648905	4642505
6	880	AERO 152mm 6B	4647903	4647106	4647726	4647746	4648806	4642406	4648906	4642506
7	1020	AERO 152mm 7B	4647904	4647107	4647727	4647747	4648807	4642407	4648907	4642507
8	1160	AERO 152mm 8B	4647905	4647108	4647728	4647748	4648808	4642408	4648908	4642508
9	1300	AERO 152mm 9B	4647906	4647109	4647729	4647749	4648809	4642409	4648909	4642509
10	1440	AERO 152mm 10B	4647907	4647110	4647730	4647750	4648810	4642410	4648910	4642510
11	1580	AERO 152mm 11B	4647908	4647111	4647731	4647751	4648811	4642411	4648911	4642511
12	1720	AERO 152mm 12B	4647909	4647112	4647732	4647752	4648812	4642412	4648912	4642512
13	1860	AERO 152mm 13B	4647910	4647113	4647733	4647753	4648813	4642413	4648913	4642513
14	2000	AERO 152mm 14B	4647911	4647114	4647734	4647754	4648814	4642414	4648914	4642514
15	2140	AERO 152mm 15B	4647912	4647115	4647735	4647755	4648815	4642415	4648915	4642515
16	2280	AERO 152mm 16B	4647913	4647116	4647736	4647756	4648816	4642416	4648916	4642516
17	2420	AERO 152mm 17B	4647914	4647117	4647737	4647757	4648817	4642417	4648917	4642517
18	2560	AERO 152mm 18B	4647915	4647118	4647738	4647758	4648818	4642418	4648918	4642518
19	2700	AERO 152mm 19B	4647916	4647119	4647739	4647759	4648819	4642419	4648919	4642519
20	2840	AERO 152mm 20B	4647917	4647120	4647740	4647760	4648820	4642420	4648920	4642520
21	2980	AERO 152mm 21B	4647918	4647121	4647741	4647761	4648821	4642421	4648921	4642521

152mm Aero Gallery + Extension Low Profile (LP) Handle

QTY OF BLADES	GALLERY HEIGHT (mm)	DESCRIPTION + EXTENSION	LH NO SCREW HOLE	RH NO SCREW HOLE	LH SCREW HOLE	RH SCREW HOLE	LH NO SCREW HOLE RESTRICTED	RH NO SCREW HOLE RESTRICTED	LH SCREW HOLE RESTRICTED	RH SCREW HOLE RESTRICTED
2	460	AERO 152mm 2B	4647762	4647781	4647800	4647880	4649002	4642602	4649102	4642702
3	600	AERO 152mm 3B	4647763	4647782	4647801	4647881	4649003	4642603	4649103	4642703
4	740	AERO 152mm 4B	4647764	4647783	4647802	4647882	4649004	4642604	4649104	4642704
5	880	AERO 152mm 5B	4647765	4647784	4647803	4647883	4649005	4642605	4649105	4642705
6	1020	AERO 152mm 6B	4647766	4647785	4647804	4647884	4649006	4642606	4649106	4642706
7	1160	AERO 152mm 7B	4647767	4647786	4647805	4647885	4649007	4642607	4649107	4642707
8	1300	AERO 152mm 8B	4647768	4647787	4647806	4647886	4649008	4642608	4649108	4642708
9	1440	AERO 152mm 9B	4647769	4647788	4647807	4647887	4649009	4642609	4649109	4642709
10	1580	AERO 152mm 10B	4647770	4647789	4647808	4647888	4649010	4642610	4649110	4642710
11	1720	AERO 152mm 11B	4647771	4647790	4647809	4647889	4649011	4642611	4649111	4642711
12	1860	AERO 152mm 12B	4647772	4647791	4647810	4647890	4649012	4642612	4649112	4642712
13	2000	AERO 152mm 13B	4647773	4647792	4647811	4647891	4649013	4642613	4649113	4642713
14	2140	AERO 152mm 14B	4647774	4647793	4647812	4647892	4649014	4642614	4649114	4642714
15	2280	AERO 152mm 15B	4647775	4647794	4647813	4647893	4649015	4642615	4649115	4642715
16	2420	AERO 152mm 16B	4647776	4647795	4647814	4647894	4649016	4642616	4649116	4642716
17	2560	AERO 152mm 17B	4647777	4647796	4647815	4647895	4649017	4642617	4649117	4642717
18	2700	AERO 152mm 18B	4647778	4647797	4647816	4647896	4649018	4642618	4649118	4642718
19	2840	AERO 152mm 19B	4647779	4647798	4647817	4647897	4649019	4642619	4649119	4642719
20	2980	AERO 152mm 20B	4647780	4647799	4647818	4647898	4649020	4642620	4649120	4642720

Finishes available:

- Pearl White (010) - Satin Black (059) - Clear Anodise (093)

Louvre Gallery Selection Chart

152mm Aero Gallery Ring Pull (RP) Handle

QTY OF BLADES	GALLERY HEIGHT (mm)	DESCRIPTION	LH NO SCREW HOLE	RH NO SCREW HOLE	LH SCREW HOLE	RH SCREW HOLE	LH NO SCREW HOLE RESTRICTED	RH NO SCREW HOLE RESTRICTED	LH SCREW HOLE RESTRICTED	RH SCREW HOLE RESTRICTED
2	320	AERO 152mm 2B	4648002	4648402	4648102	4648502	4642802	4650202	4642902	4650302
3	460	AERO 152mm 3B	4648003	4648403	4648103	4648503	4642803	4650203	4642903	4650303
4	600	AERO 152mm 4B	4648004	4648404	4648104	4648504	4642804	4650204	4642904	4650304
5	740	AERO 152mm 5B	4648005	4648405	4648105	4648505	4642805	4650205	4642905	4650305
6	880	AERO 152mm 6B	4648006	4648406	4648106	4648506	4642806	4650206	4642906	4650306
7	1020	AERO 152mm 7B	4648007	4648407	4648107	4648507	4642807	4650207	4642907	4650307
8	1160	AERO 152mm 8B	4648008	4648408	4648108	4648508	4642808	4650208	4642908	4650308
9	1300	AERO 152mm 9B	4648009	4648409	4648109	4648509	4642809	4650209	4642909	4650309
10	1440	AERO 152mm 10B	4648010	4648410	4648110	4648510	4642810	4650210	4642910	4650310
11	1580	AERO 152mm 11B	4648011	4648411	4648111	4648511	4642811	4650211	4642911	4650311
12	1720	AERO 152mm 12B	4648012	4648412	4648112	4648512	4642812	4650212	4642912	4650312
13	1860	AERO 152mm 13B	4648013	4648413	4648113	4648513	4642813	4650213	4642913	4650313
14	2000	AERO 152mm 14B	4648014	4648414	4648114	4648514	4642814	4650214	4642914	4650314
15	2140	AERO 152mm 15B	4648015	4648415	4648115	4648515	4642815	4650215	4642915	4650315
16	2280	AERO 152mm 16B	4648016	4648416	4648116	4648516	4642816	4650216	4642916	4650316
17	2420	AERO 152mm 17B	4648017	4648417	4648117	4648517	4642817	4650217	4642917	4650317
18	2560	AERO 152mm 18B	4648018	4648418	4648118	4648518	4642818	4650218	4642918	4650318
19	2700	AERO 152mm 19B	4648019	4648419	4648119	4648519	4642819	4650219	4642919	4650319
20	2840	AERO 152mm 20B	4648020	4648420	4648120	4648520	4642820	4650220	4642920	4650320
21	2980	AERO 152mm 21B	4648021	4648421	4648121	4648521	4642821	4650221	4642921	4650321

152mm Aero Gallery + Extension Ring Pull (RP) Handle

QTY OF BLADES	GALLERY HEIGHT (mm)	DESCRIPTION + EXTENSION	LH NO SCREW HOLE	RH NO SCREW HOLE	LH SCREW HOLE	RH SCREW HOLE	LH NO SCREW HOLE RESTRICTED	RH NO SCREW HOLE RESTRICTED	LH SCREW HOLE RESTRICTED	RH SCREW HOLE RESTRICTED
2	460	AERO 152mm 2B	4648202	4648602	4648302	4648702	4650002	4650402	4650102	4650502
3	600	AERO 152mm 3B	4648203	4648603	4648303	4648703	4650003	4650403	4650103	4650503
4	740	AERO 152mm 4B	4648204	4648604	4648304	4648704	4650004	4650404	4650104	4650504
5	880	AERO 152mm 5B	4648205	4648605	4648305	4648705	4650005	4650405	4650105	4650505
6	1020	AERO 152mm 6B	4648206	4648606	4648306	4648706	4650006	4650406	4650106	4650506
7	1160	AERO 152mm 7B	4648207	4648607	4648307	4648707	4650007	4650407	4650107	4650507
8	1300	AERO 152mm 8B	4648208	4648608	4648308	4648708	4650008	4650408	4650108	4650508
9	1440	AERO 152mm 9B	4648209	4648609	4648309	4648709	4650009	4650409	4650109	4650509
10	1580	AERO 152mm 10B	4648210	4648610	4648310	4648710	4650010	4650410	4650110	4650510
11	1720	AERO 152mm 11B	4648211	4648611	4648311	4648711	4650011	4650411	4650111	4650511
12	1860	AERO 152mm 12B	4648212	4648612	4648312	4648712	4650012	4650412	4650112	4650512
13	2000	AERO 152mm 13B	4648213	4648613	4648313	4648713	4650013	4650413	4650113	4650513
14	2140	AERO 152mm 14B	4648214	4648614	4648314	4648714	4650014	4650414	4650114	4650514
15	2280	AERO 152mm 15B	4648215	4648615	4648315	4648715	4650015	4650415	4650115	4650515
16	2420	AERO 152mm 16B	4648216	4648616	4648316	4648716	4650016	4650416	4650116	4650516
17	2560	AERO 152mm 17B	4648217	4648617	4648317	4648717	4650017	4650417	4650117	4650517
18	2700	AERO 152mm 18B	4648218	4648618	4648318	4648718	4650018	4650418	4650118	4650518
19	2840	AERO 152mm 19B	4648219	4648619	4648319	4648719	4650019	4650419	4650119	4650519
20	2980	AERO 152mm 20B	4648220	4648620	4648320	4648720	4650020	4650420	4650120	4650520

Finishes available:

- Pearl White (010) - Satin Black (059) - Clear Anodise (093)

Louvre Gallery Selection Chart

102mm Aero Gallery Standard (STD) Handle

QTY OF BLADES	GALLERY HEIGHT (mm)	DESCRIPTION	LH NO SCREW HOLE	RH NO SCREW HOLE	LH SCREW HOLE	RH SCREW HOLE	LH NO SCREW HOLE RESTRICTED	RH NO SCREW HOLE RESTRICTED	LH SCREW HOLE RESTRICTED	RH SCREW HOLE RESTRICTED
3	306	AERO 102mm 3B	4645003	4645403	4645203	4645603	4640003	4640403	4640103	4640503
4	395	AERO 102mm 4B	4645004	4645404	4645204	4645604	4640004	4640404	4640104	4640504
5	484	AERO 102mm 5B	4645005	4645405	4645205	4645605	4640005	4640405	4640105	4640505
6	573	AERO 102mm 6B	4645006	4645406	4645206	4645606	4640006	4640406	4640106	4640506
7	662	AERO 102mm 7B	4645007	4645407	4645207	4645607	4640007	4640407	4640107	4640507
8	751	AERO 102mm 8B	4645008	4645408	4645208	4645608	4640008	4640408	4640108	4640508
9	840	AERO 102mm 9B	4645009	4645409	4645209	4645609	4640009	4640409	4640109	4640509
10	929	AERO 102mm 10B	4645010	4645410	4645210	4645610	4640010	4640410	4640110	4640510
11	1018	AERO 102mm 11B	4645011	4645411	4645211	4645611	4640011	4640411	4640111	4640511
12	1107	AERO 102mm 12B	4645012	4645412	4645212	4645612	4640012	4640412	4640112	4640512
13	1196	AERO 102mm 13B	4645013	4645413	4645213	4645613	4640013	4640413	4640113	4640513
14	1285	AERO 102mm 14B	4645014	4645414	4645214	4645614	4640014	4640414	4640114	4640514
15	1374	AERO 102mm 15B	4645015	4645415	4645215	4645615	4640015	4640415	4640115	4640515
16	1463	AERO 102mm 16B	4645016	4645416	4645216	4645616	4640016	4640416	4640116	4640516
17	1552	AERO 102mm 17B	4645017	4645417	4645217	4645617	4640017	4640417	4640117	4640517
18	1641	AERO 102mm 18B	4645018	4645418	4645218	4645618	4640018	4640418	4640118	4640518
19	1730	AERO 102mm 19B	4645019	4645419	4645219	4645619	4640019	4640419	4640119	4640519
20	1819	AERO 102mm 20B	4645020	4645420	4645220	4645620	4640020	4640420	4640120	4640520
21	1908	AERO 102mm 21B	4645021	4645421	4645221	4645621	4640021	4640421	4640121	4640521
22	1997	AERO 102mm 22B	4645022	4645422	4645222	4645622	4640022	4640422	4640122	4640522
23	2086	AERO 102mm 23B	4645023	4645423	4645223	4645623	4640023	4640423	4640123	4640523
24	2175	AERO 102mm 24B	4645024	4645424	4645224	4645624	4640024	4640424	4640124	4640524
25	2264	AERO 102mm 25B	4645025	4645425	4645225	4645625	4640025	4640425	4640125	4640525
26	2353	AERO 102mm 26B	4645026	4645426	4645226	4645626	4640026	4640426	4640126	4640526
27	2442	AERO 102mm 27B	4645027	4645427	4645227	4645627	4640027	4640427	4640127	4640527
28	2531	AERO 102mm 28B	4645028	4645428	4645228	4645628	4640028	4640428	4640128	4640528
29	2620	AERO 102mm 29B	4645029	4645429	4645229	4645629	4640029	4640429	4640129	4640529
30	2709	AERO 102mm 30B	4645030	4645430	4645230	4645630	4640030	4640430	4640130	4640530
31	2798	AERO 102mm 31B	4645031	4645431	4645231	4645631	4640031	4640431	4640131	4640531
32	2887	AERO 102mm 32B	4645032	4645432	4645232	4645632	4640032	4640432	4640132	4640532
33	2976	AERO 102mm 33B	4645033	4645433	4645233	4645633	4640033	4640433	4640133	4640533

Finishes available:

- Pearl White (010) - Satin Black (059) - Clear Anodise (093)

Louvre Gallery Selection Chart

102mm Aero Gallery + Extension Standard (STD) Handle

QTY OF BLADES	GALLERY HEIGHT (mm)	DESCRIPTION + EXTENSION	LH NO SCREW HOLE	RH NO SCREW HOLE	LH SCREW HOLE	RH SCREW HOLE	LH NO SCREW HOLE RESTRICTED	RH NO SCREW HOLE RESTRICTED	LH SCREW HOLE RESTRICTED	RH SCREW HOLE RESTRICTED
3	395	AERO 102mm 3B	4645103	4643503	4645303	4645703	4640203	4640603	4640303	4640703
4	484	AERO 102mm 4B	4645104	4643504	4645304	4645704	4640204	4640604	4640304	4640704
5	573	AERO 102mm 5B	4645105	4643505	4645305	4645705	4640205	4640605	4640305	4640705
6	662	AERO 102mm 6B	4645106	4643506	4645306	4645706	4640206	4640606	4640306	4640706
7	751	AERO 102mm 7B	4645107	4643507	4645307	4645707	4640207	4640607	4640307	4640707
8	840	AERO 102mm 8B	4645108	4643508	4645308	4645708	4640208	4640608	4640308	4640708
9	929	AERO 102mm 9B	4645109	4643509	4645309	4645709	4640209	4640609	4640309	4640709
10	1018	AERO 102mm 10B	4645110	4643510	4645310	4645710	4640210	4640610	4640310	4640710
11	1107	AERO 102mm 11B	4645111	4643511	4645311	4645711	4640211	4640611	4640311	4640711
12	1196	AERO 102mm 12B	4645112	4643512	4645312	4645712	4640212	4640612	4640312	4640712
13	1285	AERO 102mm 13B	4645113	4643513	4645313	4645713	4640213	4640613	4640313	4640713
14	1374	AERO 102mm 14B	4645114	4643514	4645314	4645714	4640214	4640614	4640314	4640714
15	1463	AERO 102mm 15B	4645115	4643515	4645315	4645715	4640215	4640615	4640315	4640715
16	1552	AERO 102mm 16B	4645116	4643516	4645316	4645716	4640216	4640616	4640316	4640716
17	1641	AERO 102mm 17B	4645117	4643517	4645317	4645717	4640217	4640617	4640317	4640717
18	1730	AERO 102mm 18B	4645118	4643518	4645318	4645718	4640218	4640618	4640318	4640718
19	1819	AERO 102mm 19B	4645119	4643519	4645319	4645719	4640219	4640619	4640319	4640719
20	1908	AERO 102mm 20B	4645120	4643520	4645320	4645720	4640220	4640620	4640320	4640720
21	1997	AERO 102mm 21B	4645121	4643521	4645321	4645721	4640221	4640621	4640321	4640721
22	2086	AERO 102mm 22B	4645122	4643522	4645322	4645722	4640222	4640622	4640322	4640722
23	2175	AERO 102mm 23B	4645123	4643523	4645323	4645723	4640223	4640623	4640323	4640723
24	2264	AERO 102mm 24B	4645124	4643524	4645324	4645724	4640224	4640624	4640324	4640724
25	2353	AERO 102mm 25B	4645125	4643525	4645325	4645725	4640225	4640625	4640325	4640725
26	2442	AERO 102mm 26B	4645126	4643526	4645326	4645726	4640226	4640626	4640326	4640726
27	2531	AERO 102mm 27B	4645127	4643527	4645327	4645727	4640227	4640627	4640327	4640727
28	2620	AERO 102mm 28B	4645128	4643528	4645328	4645728	4640228	4640628	4640328	4640728
29	2709	AERO 102mm 29B	4645129	4643529	4645329	4645729	4640229	4640629	4640329	4640729
30	2798	AERO 102mm 30B	4645130	4643530	4645330	4645730	4640230	4640630	4640330	4640730
31	2887	AERO 102mm 31B	4645131	4643531	4645331	4645731	4640231	4640631	4640331	4640731
32	2976	AERO 102mm 32B	4645132	4643532	4645332	4645732	4640232	4640632	4640332	4640732

Finishes available:

- Pearl White (010) - Satin Black (059) - Clear Anodise (093)

Louvre Gallery Selection Chart

102mm Aero Gallery Low Profile (LP) Handle

QTY OF BLADES	GALLERY HEIGHT (mm)	DESCRIPTION	LH NO SCREW HOLE	RH NO SCREW HOLE	LH SCREW HOLE	RH SCREW HOLE	LH NO SCREW HOLE RESTRICTED	RH NO SCREW HOLE RESTRICTED	LH SCREW HOLE RESTRICTED	RH SCREW HOLE RESTRICTED
3	306	AERO 102mm 3B	4644003	4645503	4644203	4643203	4640803	4641203	4640903	4641303
4	395	AERO 102mm 4B	4644004	4645504	4644204	4643204	4640804	4641204	4640904	4641304
5	484	AERO 102mm 5B	4644005	4645505	4644205	4643205	4640805	4641205	4640905	4641305
6	573	AERO 102mm 6B	4644006	4645506	4644206	4643206	4640806	4641206	4640906	4641306
7	662	AERO 102mm 7B	4644007	4645507	4644207	4643207	4640807	4641207	4640907	4641307
8	751	AERO 102mm 8B	4644008	4645508	4644208	4643208	4640808	4641208	4640908	4641308
9	840	AERO 102mm 9B	4644009	4645509	4644209	4643209	4640809	4641209	4640909	4641309
10	929	AERO 102mm 10B	4644010	4645510	4644210	4643210	4640810	4641210	4640910	4641310
11	1018	AERO 102mm 11B	4644011	4645511	4644211	4643211	4640811	4641211	4640911	4641311
12	1107	AERO 102mm 12B	4644012	4645512	4644212	4643212	4640812	4641212	4640912	4641312
13	1196	AERO 102mm 13B	4644013	4645513	4644213	4643213	4640813	4641213	4640913	4641313
14	1285	AERO 102mm 14B	4644014	4645514	4644214	4643214	4640814	4641214	4640914	4641314
15	1374	AERO 102mm 15B	4644015	4645515	4644215	4643215	4640815	4641215	4640915	4641315
16	1463	AERO 102mm 16B	4644016	4645516	4644216	4643216	4640816	4641216	4640916	4641316
17	1552	AERO 102mm 17B	4644017	4645517	4644217	4643217	4640817	4641217	4640917	4641317
18	1641	AERO 102mm 18B	4644018	4645518	4644218	4643218	4640818	4641218	4640918	4641318
19	1730	AERO 102mm 19B	4644019	4645519	4644219	4643219	4640819	4641219	4640919	4641319
20	1819	AERO 102mm 20B	4644020	4645520	4644220	4643220	4640820	4641220	4640920	4641320
21	1908	AERO 102mm 21B	4644021	4645521	4644221	4643221	4640821	4641221	4640921	4641321
22	1997	AERO 102mm 22B	4644022	4645522	4644222	4643222	4640822	4641222	4640922	4641322
23	2086	AERO 102mm 23B	4644023	4645523	4644223	4643223	4640823	4641223	4640923	4641323
24	2175	AERO 102mm 24B	4644024	4645524	4644224	4643224	4640824	4641224	4640924	4641324
25	2264	AERO 102mm 25B	4644025	4645525	4644225	4643225	4640825	4641225	4640925	4641325
26	2353	AERO 102mm 26B	4644026	4645526	4644226	4643226	4640826	4641226	4640926	4641326
27	2442	AERO 102mm 27B	4644027	4645527	4644227	4643227	4640827	4641227	4640927	4641327
28	2531	AERO 102mm 28B	4644028	4645528	4644228	4643228	4640828	4641228	4640928	4641328
29	2620	AERO 102mm 29B	4644029	4645529	4644229	4643229	4640829	4641229	4640929	4641329
30	2709	AERO 102mm 30B	4644030	4645530	4644230	4643230	4640830	4641230	4640930	4641330
31	2798	AERO 102mm 31B	4644031	4645531	4644231	4643231	4640831	4641231	4640931	4641331
32	2887	AERO 102mm 32B	4644032	4645532	4644232	4643232	4640832	4641232	4640932	4641332
33	2976	AERO 102mm 33B	4644033	4645533	4644233	4643233	4640833	4641233	4640933	4641333

Finishes available:

- Pearl White (010) - Satin Black (059) - Clear Anodise (093)

Louvre Gallery Selection Chart

102mm Aero Gallery + Extension Low Profile (LP) Handle

QTY OF BLADES	GALLERY HEIGHT (mm)	DESCRIPTION + EXTENSION	LH NO SCREW HOLE	RH NO SCREW HOLE	LH SCREW HOLE	RH SCREW HOLE	LH NO SCREW HOLE RESTRICTED	RH NO SCREW HOLE RESTRICTED	LH SCREW HOLE RESTRICTED	RH SCREW HOLE RESTRICTED
3	395	AERO 102mm 3B	4643003	4643303	4643103	4643403	4641003	4641403	4641103	4641503
4	484	AERO 102mm 4B	4643004	4643304	4643104	4643404	4641004	4641404	4641104	4641504
5	573	AERO 102mm 5B	4643005	4643305	4643105	4643405	4641005	4641405	4641105	4641505
6	662	AERO 102mm 6B	4643006	4643306	4643106	4643406	4641006	4641406	4641106	4641506
7	751	AERO 102mm 7B	4643007	4643307	4643107	4643407	4641007	4641407	4641107	4641507
8	840	AERO 102mm 8B	4643008	4643308	4643108	4643408	4641008	4641408	4641108	4641508
9	929	AERO 102mm 9B	4643009	4643309	4643109	4643409	4641009	4641409	4641109	4641509
10	1018	AERO 102mm 10B	4643010	4643310	4643110	4643410	4641010	4641410	4641110	4641510
11	1107	AERO 102mm 11B	4643011	4643311	4643111	4643411	4641011	4641411	4641111	4641511
12	1196	AERO 102mm 12B	4643012	4643312	4643112	4643412	4641012	4641412	4641112	4641512
13	1285	AERO 102mm 13B	4643013	4643313	4643113	4643413	4641013	4641413	4641113	4641513
14	1374	AERO 102mm 14B	4643014	4643314	4643114	4643414	4641014	4641414	4641114	4641514
15	1463	AERO 102mm 15B	4643015	4643315	4643115	4643415	4641015	4641415	4641115	4641515
16	1552	AERO 102mm 16B	4643016	4643316	4643116	4643416	4641016	4641416	4641116	4641516
17	1641	AERO 102mm 17B	4643017	4643317	4643117	4643417	4641017	4641417	4641117	4641517
18	1730	AERO 102mm 18B	4643018	4643318	4643118	4643418	4641018	4641418	4641118	4641518
19	1819	AERO 102mm 19B	4643019	4643319	4643119	4643419	4641019	4641419	4641119	4641519
20	1908	AERO 102mm 20B	4643020	4643320	4643120	4643420	4641020	4641420	4641120	4641520
21	1997	AERO 102mm 21B	4643021	4643321	4643121	4643421	4641021	4641421	4641121	4641521
22	2086	AERO 102mm 22B	4643022	4643322	4643122	4643422	4641022	4641422	4641122	4641522
23	2175	AERO 102mm 23B	4643023	4643323	4643123	4643423	4641023	4641423	4641123	4641523
24	2264	AERO 102mm 24B	4643024	4643324	4643124	4643424	4641024	4641424	4641124	4641524
25	2353	AERO 102mm 25B	4643025	4643325	4643125	4643425	4641025	4641425	4641125	4641525
26	2442	AERO 102mm 26B	4643026	4643326	4643126	4643426	4641026	4641426	4641126	4641526
27	2531	AERO 102mm 27B	4643027	4643327	4643127	4643427	4641027	4641427	4641127	4641527
28	2620	AERO 102mm 28B	4643028	4643328	4643128	4643428	4641028	4641428	4641128	4641528
29	2709	AERO 102mm 29B	4643029	4643329	4643129	4643429	4641029	4641429	4641129	4641529
30	2798	AERO 102mm 30B	4643030	4643330	4643130	4643430	4641030	4641430	4641130	4641530
31	2887	AERO 102mm 31B	4643031	4643331	4643131	4643431	4641031	4641431	4641131	4641531
32	2976	AERO 102mm 32B	4643032	4643332	4643132	4643432	4641032	4641432	4641132	4641532

Finishes available:

- Pearl White (010)

- Satin Black (059)

- Clear Anodise (093)

Louvre Gallery Selection Chart

102mm Aero Gallery Ring Pull (RP) Handle

QTY OF BLADES	GALLERY HEIGHT (mm)	DESCRIPTION	LH NO SCREW HOLE	RH NO SCREW HOLE	LH SCREW HOLE	RH SCREW HOLE	LH NO SCREW HOLE RESTRICTED	RH NO SCREW HOLE RESTRICTED	LH SCREW HOLE RESTRICTED	RH SCREW HOLE RESTRICTED
3	306	AERO 102mm 3B	4644103	4644603	4644303	4644703	4641603	4642003	4641703	4642103
4	395	AERO 102mm 4B	4644104	4644604	4644304	4644704	4641604	4642004	4641704	4642104
5	484	AERO 102mm 5B	4644105	4644605	4644305	4644705	4641605	4642005	4641705	4642105
6	573	AERO 102mm 6B	4644106	4644606	4644306	4644706	4641606	4642006	4641706	4642106
7	662	AERO 102mm 7B	4644107	4644607	4644307	4644707	4641607	4642007	4641707	4642107
8	751	AERO 102mm 8B	4644108	4644608	4644308	4644708	4641608	4642008	4641708	4642108
9	840	AERO 102mm 9B	4644109	4644609	4644309	4644709	4641609	4642009	4641709	4642109
10	929	AERO 102mm 10B	4644110	4644610	4644310	4644710	4641610	4642010	4641710	4642110
11	1018	AERO 102mm 11B	4644111	4644611	4644311	4644711	4641611	4642011	4641711	4642111
12	1107	AERO 102mm 12B	4644112	4644612	4644312	4644712	4641612	4642012	4641712	4642112
13	1196	AERO 102mm 13B	4644113	4644613	4644313	4644713	4641613	4642013	4641713	4642113
14	1285	AERO 102mm 14B	4644114	4644614	4644314	4644714	4641614	4642014	4641714	4642114
15	1374	AERO 102mm 15B	4644115	4644615	4644315	4644715	4641615	4642015	4641715	4642115
16	1463	AERO 102mm 16B	4644116	4644616	4644316	4644716	4641616	4642016	4641716	4642116
17	1552	AERO 102mm 17B	4644117	4644617	4644317	4644717	4641617	4642017	4641717	4642117
18	1641	AERO 102mm 18B	4644118	4644618	4644318	4644718	4641618	4642018	4641718	4642118
19	1730	AERO 102mm 19B	4644119	4644619	4644319	4644719	4641619	4642019	4641719	4642119
20	1819	AERO 102mm 20B	4644120	4644620	4644320	4644720	4641620	4642020	4641720	4642120
21	1908	AERO 102mm 21B	4644121	4644621	4644321	4644721	4641621	4642021	4641721	4642121
22	1997	AERO 102mm 22B	4644122	4644622	4644322	4644722	4641622	4642022	4641722	4642122
23	2086	AERO 102mm 23B	4644123	4644623	4644323	4644723	4641623	4642023	4641723	4642123
24	2175	AERO 102mm 24B	4644124	4644624	4644324	4644724	4641624	4642024	4641724	4642124
25	2264	AERO 102mm 25B	4644125	4644625	4644325	4644725	4641625	4642025	4641725	4642125
26	2353	AERO 102mm 26B	4644126	4644626	4644326	4644726	4641626	4642026	4641726	4642126
27	2442	AERO 102mm 27B	4644127	4644627	4644327	4644727	4641627	4642027	4641727	4642127
28	2531	AERO 102mm 28B	4644128	4644628	4644328	4644728	4641628	4642028	4641728	4642128
29	2620	AERO 102mm 29B	4644129	4644629	4644329	4644729	4641629	4642029	4641729	4642129
30	2709	AERO 102mm 30B	4644130	4644630	4644330	4644730	4641630	4642030	4641730	4642130
31	2798	AERO 102mm 31B	4644131	4644631	4644331	4644731	4641631	4642031	4641731	4642131
32	2887	AERO 102mm 32B	4644132	4644632	4644332	4644732	4641632	4642032	4641732	4642132
33	2976	AERO 102mm 33B	4644133	4644633	4644333	4644733	4641633	4642033	4641733	4642133

Finishes available:

- Pearl White (010) - Satin Black (059) - Clear Anodise (093)

Louvre Gallery Selection Chart

102mm Aero Gallery + Extension Ring Pull (RP) Handle

QTY OF BLADES	GALLERY HEIGHT (mm)	DESCRIPTION + EXTENSION	LH NO SCREW HOLE	RH NO SCREW HOLE	LH SCREW HOLE	RH SCREW HOLE	LH NO SCREW HOLE RESTRICTED	RH NO SCREW HOLE RESTRICTED	LH SCREW HOLE RESTRICTED	RH SCREW HOLE RESTRICTED
3	395	AERO 102mm 3B	4644403	4644803	4644503	4644903	4641803	4642203	4641903	4642303
4	484	AERO 102mm 4B	4644404	4644804	4644504	4644904	4641804	4642204	4641904	4642304
5	573	AERO 102mm 5B	4644405	4644805	4644505	4644905	4641805	4642205	4641905	4642305
6	662	AERO 102mm 6B	4644406	4644806	4644506	4644906	4641806	4642206	4641906	4642306
7	751	AERO 102mm 7B	4644407	4644807	4644507	4644907	4641807	4642207	4641907	4642307
8	840	AERO 102mm 8B	4644408	4644808	4644508	4644908	4641808	4642208	4641908	4642308
9	929	AERO 102mm 9B	4644409	4644809	4644509	4644909	4641809	4642209	4641909	4642309
10	1018	AERO 102mm 10B	4644410	4644810	4644510	4644910	4641810	4642210	4641910	4642310
11	1107	AERO 102mm 11B	4644411	4644811	4644511	4644911	4641811	4642211	4641911	4642311
12	1196	AERO 102mm 12B	4644412	4644812	4644512	4644912	4641812	4642212	4641912	4642312
13	1285	AERO 102mm 13B	4644413	4644813	4644513	4644913	4641813	4642213	4641913	4642313
14	1374	AERO 102mm 14B	4644414	4644814	4644514	4644914	4641814	4642214	4641914	4642314
15	1463	AERO 102mm 15B	4644415	4644815	4644515	4644915	4641815	4642215	4641915	4642315
16	1552	AERO 102mm 16B	4644416	4644816	4644516	4644916	4641816	4642216	4641916	4642316
17	1641	AERO 102mm 17B	4644417	4644817	4644517	4644917	4641817	4642217	4641917	4642317
18	1730	AERO 102mm 18B	4644418	4644818	4644518	4644918	4641818	4642218	4641918	4642318
19	1819	AERO 102mm 19B	4644419	4644819	4644519	4644919	4641819	4642219	4641919	4642319
20	1908	AERO 102mm 20B	4644420	4644820	4644520	4644920	4641820	4642220	4641920	4642320
21	1997	AERO 102mm 21B	4644421	4644821	4644521	4644921	4641821	4642221	4641921	4642321
22	2086	AERO 102mm 22B	4644422	4644822	4644522	4644922	4641822	4642222	4641922	4642322
23	2175	AERO 102mm 23B	4644423	4644823	4644523	4644923	4641823	4642223	4641923	4642323
24	2264	AERO 102mm 24B	4644424	4644824	4644524	4644924	4641824	4642224	4641924	4642324
25	2353	AERO 102mm 25B	4644425	4644825	4644525	4644925	4641825	4642225	4641925	4642325
26	2442	AERO 102mm 26B	4644426	4644826	4644526	4644926	4641826	4642226	4641926	4642326
27	2531	AERO 102mm 27B	4644427	4644827	4644527	4644927	4641827	4642227	4641927	4642327
28	2620	AERO 102mm 28B	4644428	4644828	4644528	4644928	4641828	4642228	4641928	4642328
29	2709	AERO 102mm 29B	4644429	4644829	4644529	4644929	4641829	4642229	4641929	4642329
30	2798	AERO 102mm 30B	4644430	4644830	4644530	4644930	4641830	4642230	4641930	4642330
31	2887	AERO 102mm 31B	4644431	4644831	4644531	4644931	4641831	4642231	4641931	4642331
32	2976	AERO 102mm 32B	4644432	4644832	4644532	4644932	4641832	4642232	4641932	4642332

Finishes available:

- Pearl White (010) - Satin Black (059) - Clear Anodise (093)

Louvre Gallery Selection Chart

152mm Altair® Louvre Galleries

Standard Louvre Gallery Features:

- Extruded Channel with or without screw holes
- Single operating mechanism with single left hand control handle (viewed from inside)
- Black handles and clips for all finishes, except white handles & clips for Pearl White & Architectural White
- Standard Louvre gallery heights
- Standard opening 102mm Gallery - 86°/84mm, 152mm Gallery - 88°/134mm
- Choice of clips to suit 6mm glass or 14mm Timber blades

Custom Louvre Gallery Features:

- Right hand control (viewed from inside)
- Top extended channel to next standard clip size, or cut to length channel. Off standard height galleries that are within 5mm of a Standard Height will not have a top fixed blade
- Colour matched handles and clips
- Remote Control handles - A2, A6, P13
- Variable or additional position
- Restricted Openings 102mm Gallery 70°/80mm, 152mm Galleries 35°/80mm, 45°/100mm, 60°/120mm
- Variable or additional position
- Low Profile Handle

NO. BLADES	STANDARD ALSPEC CODE			CUSTOM LOUVRE	FULL EXTENSION *		
	GALLERY HEIGHT (mm)	NO SCREW HOLES	SCREW HOLES		GALLERY HEIGHT (mm)	NO SCREW HOLES	SCREW HOLES
2	320	1646002	1646202	1646802	460	1646102	1646302
3	460	1646003	1646203	1646803	600	1646103	1646303
4	600	1646004	1646204	1646804	740	1646104	1646304
5	740	1646005	1646205	1646805	880	1646105	1646305
6	880	1646006	1646206	1646806	1020	1646106	1646306
7	1020	1646007	1646207	1646807	1160	1646107	1646307
8	1160	1646008	1646208	1646808	1300	1646108	1646308
9	1300	1646009	1646209	1646809	1440	1646109	1646309
10	1440	1646010	1646210	1646810	1580	1646110	1646310
11	1580	1646011	1646211	1646811	1720	1646111	1646311
12	1720	1646012	1646212	1646812	1860	1646112	1646312
13	1860	1646013	1646213	1646813	2000	1646113	1646313
14	2000	1646014	1646214	1646814	2140	1646114	1646314
15	2140	1646015	1646215	1646815	2280	1646115	1646315
16	2280	1646016	1646216	1646816	2420	1646116	1646316
17	2420	1646017	1646217	1646817	2560	1646117	1646317
18	2560	1646018	1646218	1646818	2700	1646118	1646318
19	2700	1646019	1646219	1646819	2840	1646119	1646319
20	2840	1646020	1646220	1646820	2980	1646120	1646320
21	2980	1646021	1646221	1646821	-	-	-

Finishes available:

- Pearl White (010) - Satin Black (059) - 25um Clear (093) - Custom Finish (098)
- Breezway Standard Finish (B01) - Breezway Special Finish (B02)

* Full Extension = Louvre blades & Fixed blade

Louvre Gallery Selection Chart

102mm Altair® Louvre Galleries

NO. BLADES	STANDARD ALSPEC CODE			CUSTOM LOUVRE	FULL EXTENSION *		
	GALLERY HEIGHT (mm)	NO SCREW HOLES	SCREW HOLES		GALLERY HEIGHT (mm)	NO SCREW HOLES	SCREW HOLES
3	310	1645003	1645203	1645803	400	1645103	1645303
4	400	1645004	1645204	1645804	490	1645104	1645304
5	490	1645005	1645205	1645805	580	1645105	1645305
6	580	1645006	1645206	1645806	670	1645106	1645306
7	670	1645007	1645207	1645807	760	1645107	1645307
8	760	1645008	1645208	1645808	850	1645108	1645308
9	850	1645009	1645209	1645809	940	1645109	1645309
10	940	1645010	1645210	1645810	1030	1645110	1645310
11	1030	1645011	1645211	1645811	1120	1645111	1645311
12	1120	1645012	1645212	1645812	1210	1645112	1645312
13	1210	1645013	1645213	1645813	1300	1645113	1645313
14	1300	1645014	1645214	1645814	1390	1645114	1645314
15	1390	1645015	1645215	1645815	1480	1645115	1645315
16	1480	1645016	1645216	1645816	1570	1645116	1645316
17	1570	1645017	1645217	1645817	1660	1645117	1645317
18	1660	1645018	1645218	1645818	1750	1645118	1645318
19	1750	1645019	1645219	1645819	1840	1645119	1645319
20	1840	1645020	1645220	1645820	1930	1645120	1645320
21	1930	1645021	1645221	1645821	2020	1645121	1645321
22	2020	1645022	1645222	1645822	2110	1645122	1645322
23	2110	1645023	1645223	1645823	2200	1645123	1645323
24	2200	1645024	1645224	1645824	2290	1645124	1645324
25	2290	1645025	1645225	1645825	2380	1645125	1645325
26	2380	1645026	1645226	1645826	2470	1645126	1645326
27	2470	1645027	1645227	1645827	2560	1645127	1645327
28	2560	1645028	1645228	1645828	2650	1645128	1645328
29	2650	1645029	1645229	1645829	2740	1645129	1645329
30	2740	1645030	1645230	1645830	2830	1645130	1645330
31	2830	1645031	1645231	1645831	2920	1645131	1645331
32	2920	1645032	1645232	1645832	3010	1645132	1645332
33	3010	1645033	1645233	1645833	-	-	-

Finishes available:

- Pearl White (010) - Satin Black (059) - 25um Clear (093) - Custom Finish (098)
- Breezway Standard Finish (B01) - Breezway Special Finish (B02)

* Full Extension = Louvre blades + Fixed blade

Louvre Gallery Selection Chart

152mm Altair® Stronghold Louvre Gallery



NO. BLADES	GALLERY HEIGHT (mm)	ALSPEC STANDARD CODE	ALSPEC CUSTOM LOUVRE CODES
2	320	1647202	1647302
3	460	1647203	1647303
4	600	1647204	1647304
5	740	1647205	1647305
6	880	1647206	1647306
7	1020	1647207	1647307
8	1160	1647208	1647308
9	1300	1647209	1647309
10	1440	1647210	1647310
11	1580	1647211	1647311
12	1720	1647212	1647312
13	1860	1647213	1647313
14	2000	1647214	1647314
15	2140	1647215	1647315
16	2280	1647216	1647316
17	2420	1647217	1647317
18	2560	1647218	1647318
19	2700	1647219	1647319
20	2840	1647220	1647320
21	2980	1647221	1647321

Louvre Gallery Selection Chart

102mm Altair® Stronghold Louvre Gallery

NO. BLADES	GALLERY HEIGHT (mm)	ALSPEC STANDARD CODE	ALSPEC CUSTOM LOUVRE CODES
3	310	1647003	1647103
4	400	1647004	1647104
5	490	1647005	1647105
6	580	1647006	1647106
7	670	1647007	1647107
8	760	1647008	1647108
9	850	1647009	1647109
10	940	1647010	1647110
11	1030	1647011	1647111
12	1120	1647012	1647112
13	1210	1647013	1647113
14	1300	1647014	1647114
15	1390	1647015	1647115
16	1480	1647016	1647116
17	1570	1647017	1647117
18	1660	1647018	1647118
19	1750	1647019	1647119
20	1840	1647020	1647120
21	1930	1647021	1647121
22	2020	1647022	1647122
23	2110	1647023	1647123
24	2200	1647024	1647124
25	2290	1647025	1647125
26	2380	1647026	1647126
27	2470	1647027	1647127
28	2560	1647028	1647128
29	2650	1647029	1647129
30	2740	1647030	1647130
31	2830	1647031	1647131
32	2920	1647032	1647132
33	3010	1647033	1647133

Finishes available:

- Pearl White (010)
- Satin Black (059)
- 25um Clear (093)
- Custom Finish (098)
- Breezeway Standard Finish (B01)
- Breezeway Special Finish (B02)

Louvre Gallery Selection Chart

152mm Altair® Louvre Gallery with Key Lock

Altair® Louvre Lock Operation

The Altair Louvre Keylock is strong & durable with an easy to use locking mechanism.

- Available in Blush Chrome finish only.
- No maintenance required
- Fits most frames and is installed on the opposite side of the handle
- Same key can be used to lock or unlock multiple keylocks



NO. BLADES	GALLERY HEIGHT (mm)	ALSPEC STANDARD CODE	ALSPEC CUSTOM LOUVRE CODES
2	320	1647602	1647702
3	460	1647603	1647703
4	600	1647604	1647704
5	740	1647605	1647705
6	880	1647606	1647706
7	1020	1647607	1647707
8	1160	1647608	1647708
9	1300	1647609	1647709
10	1440	1647610	1647710
11	1580	1647611	1647711
12	1720	1647612	1647712
13	1860	1647613	1647713
14	2000	1647614	1647714
15	2140	1647615	1647715
16	2280	1647616	1647716
17	2420	1647617	1647717
18	2560	1647618	1647718
19	2700	1647619	1647719
20	2840	1647620	1647720
21	2980	1647621	1647721

Louvre Gallery Selection Chart

102mm Altair® Louvre Gallery with Key Lock

NO. BLADES	GALLERY HEIGHT (mm)	ALSPEC STANDARD CODE	ALSPEC CUSTOM LOUVRE CODES
3	310	1647403	1647503
4	400	1647404	1647504
5	490	1647405	1647505
6	580	1647406	1647506
7	670	1647407	1647507
8	760	1647408	1647508
9	850	1647409	1647509
10	940	1647410	1647510
11	1030	1647411	1647511
12	1120	1647412	1647512
13	1210	1647413	1647513
14	1300	1647414	1647514
15	1390	1647415	1647515
16	1480	1647416	1647516
17	1570	1647417	1647517
18	1660	1647418	1647518
19	1750	1647419	1647519
20	1840	1647420	1647520
21	1930	1647421	1647521
22	2020	1647422	1647522
23	2110	1647423	1647523
24	2200	1647424	1647524
25	2290	1647425	1647525
26	2380	1647426	1647526
27	2470	1647427	1647527
28	2560	1647428	1647528
29	2650	1647429	1647529
30	2740	1647430	1647530
31	2830	1647431	1647531
32	2920	1647432	1647532
33	3010	1647433	1647533

Finishes available:

- Pearl White (010)
- Satin Black (059)
- 25um Clear (093)
- Custom Finish (098)
- Breezeway Standard Finish (B01)
- Breezeway Special Finish (B02)

Louvre Gallery Selection Chart

152mm Altair® Powerlouvre® Gallery Sets

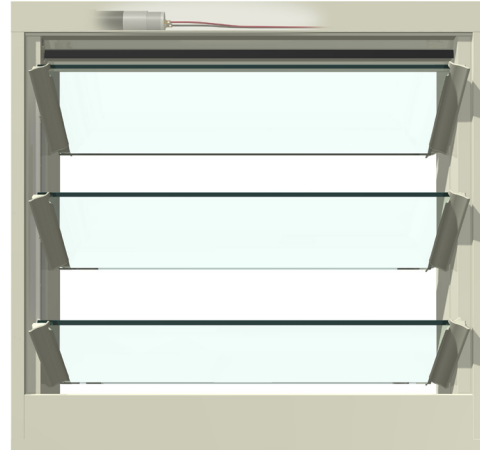
Altair Powerlouvre is an automated Louvre window system which incorporates a concealed motor within the head of the frame and operated by the Powerlouvre Apptivate Control Unit, the Powerlouvre App, or integrated into a building management system.

'STANDARD' inclusions

- Extruded channel with or without screw holes
- Black Clips for all finishes, except white clips for Pearl White and Architectural White
- Standard Louvre Gallery heights
- Choice of clips to suit 6mm or 14mm thick timber blades
- 4 metres of wire extending from each motor unit

'OFF STANDARD' features

- Top extended channel to 152mm gallery (note some heights unavailable due to 'dead area')
- Colour matched clips - See Standard Australian Finishes table



NO. BLADES	GALLERY HEIGHT (mm)	ALSPEC STANDARD CODE	ALSPEC CUSTOM LOUVRE CODES
2	320	1646402	1646602
3	460	1646403	1646603
4	600	1646404	1646604
5	740	1646405	1646605
6	880	1646406	1646606
7	1020	1646407	1646607
8	1160	1646408	1646608
9	1300	1646409	1646609
10	1440	1646410	1646610
11	1580	1646411	1646611
12	1720	1646412	1646612
13	1860	1646413	1646613
14	2000	1646414	1646614
15	2140	1646415	1646615
16	2280	1646416	1646616
17	2420	1646417	1646617
18	2560	1646418	1646618

Louvre Gallery Selection Chart

102mm Altair® Powerlouvre® Gallery Sets

NO. BLADES	GALLERY HEIGHT (MM)	ALSPEC STANDARD CODE	ALSPEC CUSTOM LOUVRE CODES
3	310	1645403	1645603
4	400	1645404	1645604
5	490	1645405	1645605
6	580	1645406	1645606
7	670	1645407	1645607
8	760	1645408	1645608
9	850	1645409	1645609
10	940	1645410	1645610
11	1030	1645411	1645611
12	1120	1645412	1645612
13	1210	1645413	1645613
14	1300	1645414	1645614
15	1390	1645415	1645615
16	1480	1645416	1645616
17	1570	1645417	1645617
18	1660	1645418	1645618

Please Note for 152mm and 102mm Powerlouvre Gallery Sets:

- Minimum Powerlouvre window bay width for 2-9 blade high windows is 400mm
- Minimum Powerlouvre window bay width for 10-18 blade high windows is 500mm
- Satisfactory completion of the Breezeway Powerlouvre Assembly Training is required by the fabricator prior to order placement
- Altair Powerlouvre Galleries require a special Weatherstrip set which must be used
- Transformers capable of powering up to 6 motors simultaneously are available from Breezeway

Finishes available:

- Pearl White (010)
- Satin Black (059)
- 25um Clear (093)
- Custom Finish (098)
- Breezeway Standard Finish (B01)
- Breezeway Special Finish (B02)