Carinya
Classic Awning Window

Technical Manual

March 2025 | ISSUE I

EVERYTHING ALUMINIUM & HARDWARE

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carinya
RESIDENTIAL
WINDOWS AND DOORS

Contents

1. Technical Manual Release Notes

This page is intended to record all changes to the **CARINYA CLASSIC AWNING WINDOW** technical manual pages.

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

ISSUE	DATE	AMENDMENT DESCRIPTION	REFER TO CARINYA SALES BULLETIN #
A	2/2011	Technical Manual Release	N/A
B	7/2013	Awning sash profile update, CE14 external seal update	#37, #38
C	7/2014	Cyclonic Awning Test result	#62
D	3/2016	Complete Tech Manual Update	#77, #80
E	3/2020	New format layout. Updated test summary and specification, added drainage and sealing details, Added new extrusions & hardware, Added 90 degree corner assembly.	#107
F	08/2022	New extrusion RAW47 pg 5.8	
G	05/2023	Added FRT230002.R1 BAL AA-40 Test Report to page 4.15	#554
H	09/2023	New extrusion RSW152 & AF225 added to pages 5.9, 5.12	#556
I	03/2025	Hardware Updates on page 4.11, 6.4 - 6.6, 10.9 and 10.10	#610

ALUMINIUM
Aluminium frames should be manufactred using ALSPEC's **CARINYA CLASSIC AWNING WINDOW** framing system.

Using single std Alspec chain winder
Maximum Height
N1 to N2 Conditions Only = 2100mm O/A Sash
N3 to N4 Conditions Only = 1550mm O/A Sash

Maximum Width
Up to N4 Condition Only = 1600mm O/A Sash (41mm wide sash)
Up to N4 Condition Only = 2100mm O/A Sash (60mm wide sash)

Minimum Sash Height = 410mm O/A Sash
Minimum Sash Width = 350mm O/A Sash
Maximum Weight = 40kg
Maximum Area = 1.26m²
Maximum Area = 2.16m² for N2 General Conditions Only

These are general limitations and will not suite all terrain conditions. Contact Carinya Technical support for specific size verification.

Using additional Sash Locks or Cam Handles with std chain winder
(For all N3, N4, & C2 Conditions Only) Using 41mm or 60mm sash style.
Maximum Sash Height = 2100mm O/A Sash
Maximum Sash Width = 2100mm O/A Sash
Applicable Sash Area = 0.4 to 1.26m²

(For all C3 to C4 Conditions Only) Must use 60mm wide sash option.
Maximum Sash Height = 1550mm O/A Sash
Maximum Sash Width = 2100mm O/A Sash
Applicable Sash Area = 0.4 to 1.26m²
Smaller sash area below 0.4m² do not require additional hardware

For other hardware or site conditions contact Carinya R&D.

Casement Window Limitations

Maximum Sash Height = 1200mm O/A Sash (Up to N3 General using 41mm wide sash)
Maximum Sash Height = 1500mm O/A Sash (Up to N4 General using 60mm wide sash)
Maximum Sash Height = 1300mm O/A Sash (Up to N6 or C3 General using 60mm wide sash)

Minimum Sash Height = 410mm O/A Sash
Maximum Sash Width = 800mm O/A Sash
Minimum Sash Width = 400mm O/A Sash
Maximum Sash Weight = 30kg
Applicable Sash Area to All Conditions = 0.96m²

For other hardware or site conditions contact your local area manager.

HARDWARE
The hardware shall be ALSPEC's specific glazing tapes, colour coded wedges and glazing channels for **CARINYA CLASSIC AWNING WINDOW.**
- All other hardware 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 requirement of AS2047 (windows in buildings), AS1170 (loading code). All glass, glazing rubbers, seals and gaskets shall be applied in accordance with the requirements of AS1288 (glass in buildings - selection and installation).

All installation of products must comply with the Industry Code of Practice and applicable standards and codes including the Mational Construction Code or Australian Building Code.

Fabricators of the Carinya Awning Windows framing system should seek certification by a consultant structural engineer as to the framing being acceptable for the design wind pressure and deflection characteristics required of the site.

3. Loading Tables

carinya RESIDENTIAL WINDOWS AND DOORS

Window Rating for Housing

WINDOW RATINGS	SERVICEABILITY (Pa)		ULTIMATE LIMIT (Pa)		WATER RESISTANCE (Pa)	
	GENERAL	CORNER	GENERAL	CORNER	NON EXPOSED	EXPOSED
N1	400	600	600	900	150	200
N2	400	600	900	1300	150	200
N3	600	800	1400	2000	150	300
N4	800	1200	2000	3000	200	300
N5	1200	1800	3000	4500	300	450
N6	1600	2500	4000	6000	450	600
C1	600	800	1800	2700	150	300
C2	800	1200	2700	4000	200	300
C3	1200	1800	4000	5900	300	450
C4	1600	2500	5300	8000	450	600

Pressure table referenced from AS2047 - 2014 Table 2.1, 2.4 & 2.5

Corner Window & Doors are defined as having 25% or more of any panel or pane within 1200mm of an external corner of the building.

This table relates to Housing as defined in AS4055. The wind load requirements for residential and commercial buildings may be different and are determined by the building designer.

NOTE: It is the responsibility of the purchaser that nominates the window ratings required for the window and door assemblies.

3. Loading Tables

Loading Table Guide

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

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

Framing must be checked for suitability.

For a window / door frame, which is 2400mm high and 1000mm wide, refer to the table below;
Step 1: Locate the height
Step 2: Locate the width
Step 3: Determine the Maximum wind pressure based on the height and width.

SECTION PART NO.	Window Height	Maximum Design Pressure (Pa)					
	2850	S	1040	840	720	630	570
		U	2410	1960	1660	1460	1310
	2700	S	1230	1000	850	750	680
		U	2700	2190	1870	1640	1480
	2550	S	1460	1200	1020	910	830
		U	3040	2470	2210	1860	1690
STEP 1 →	2400	S	1770	1450	1250	[illegible]	1010
		U	3440	2810	2410	[illegible]	1940
	2250	S	2160	1780	1530	1370	1270
		U	3940	3230	2780	2470	2270
	2100	S	2670	2210	1920	1730	1610
		U	4550	3750	3240	2900	2680
Ixx = xxx x xx^3 mm^4	Mullion Centres		800	1000	1200	1400	1600

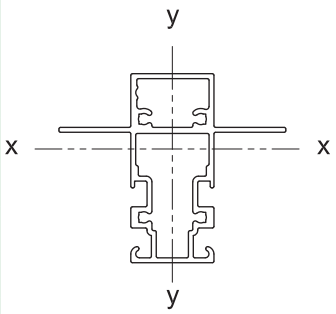
STEP 3 ←

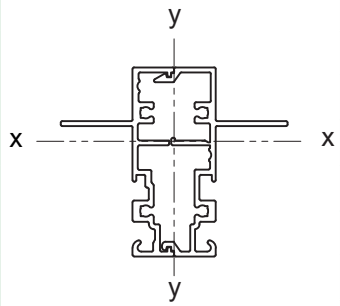
STEP 2 ↑

Tables are based on theoretical section properties

RAW8 Mullion / RAW1 + RAW11 Coupled Mullion

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

RAW8 MULLION	Window Height		Maximum Design Pressure (Pa)						
	1600	S	570	480	430	410	400		
		U	1410	1190	1060	990	970		
	1400	S	880	760	700	680	610	550	490
		U	1900	1630	1490	1450	1300	1170	1050
	1200	S	1470	1320	1270	1140	1020	925	830
		U	2710	2400	2300	2070	1860	1670	1500
	1000	S	2780	2640	2370	2130	1920	1730	1150
		U	4220	3980	3580	3220	2900	2610	2350
Ixx = 80 x 10^3 mm^4	Mullion Centres		800	1000	1200	1400	1600	1800	2000

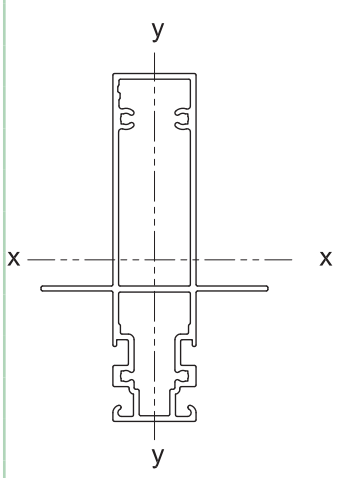
RAW1 &RAW11 COUPLED MULLION	Window Height		Maximum Design Pressure (Pa)						
	1800	S	430						
		U	1230						
	1600	S	640	540	480	460	450		
		U	1590	1340	1190	1110	1090		
	1400	S	980	850	780	760	680	610	550
		U	2130	1830	1680	1630	1460	1320	1180
	1200	S	1640	1470	1420	1270	1150	1030	930
		U	3040	2690	2590	2330	2097	1880	1690
	1000	S	3000	2950	2650	2380	2150	1930	1740
		U	4740	4470	4020	3620	3250	2930	2630
Ixx = 89.3 x 10^3 mm^4	Mullion Centres		800	1000	1200	1400	1600	1800	2000

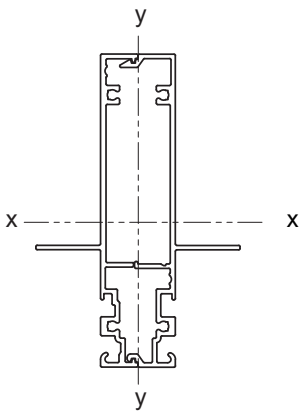
Tables are based on theoretical section properties

3. Loading Tables

RAW17 92mm Mullion / RAW13 + RAW114 Coupled Mullion

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

RAW17 92mm MULLION	Window Height		Maximum Design Pressure (Pa)						
	2400	S	800	660	560	500	460	430	410
		U	1610	1310	1120	990	910	840	800
	2200	S	1050	870	750	670	620	590	570
		U	1930	1580	1360	1210	1120	1050	1010
	2000	S	1420	1180	1030	930	870	840	830
		U	2350	1940	1690	1520	1410	1350	1340
	1800	S	1980	1660	1460	1350	1280	1260	1130
		U	2950	2450	2150	1970	1870	1830	1650
	1600	S	2880	2440	2200	2070	2030	1820	1640
		U	3800	3210	2860	2670	2610	2340	2110
	1400	S	3000	3000	3000	3000	2600	2340	2100
		U	5110	4390	4020	3900	3510	3150	2480
	1200	S	3000	3000	3000	3000	3000	2780	2600
		U	7280	6450	6200	5580	5020	4520	4050
	1000	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	9000	9000
Ixx = 402.3 x 10^3 mm^4	**Mullion Centres**		**800**	**1000**	**1200**	**1400**	**1600**	**1800**	**2000**

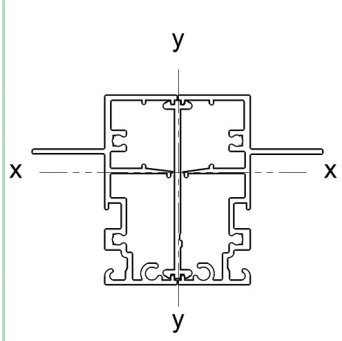
RAW13 + RAW114 COUPLED MULLION	Window Height		Maximum Design Pressure (Pa)						
	2400	S	880	720	620	550	500	470	450
		U	1780	1450	1240	1100	1000	930	890
	2200	S	1150	950	820	740	680	640	620
		U	2130	1750	1510	1340	1230	1160	1120
	2000	S	1550	1290	1120	1020	950	920	910
		U	2610	2150	1870	1680	1570	1500	1480
	1800	S	2170	1810	1600	1480	1410	1390	1250
		U	3260	2720	2380	2180	2070	2030	1810
	1600	S	3000	2680	2410	2270	2220	1990	1790
		U	4210	3550	3160	2960	2890	2570	2320
	1400	S	3000	3000	3000	3000	2860	2570	2320
		U	5650	4860	4450	4320	3860	3460	2720
	1200	S	3000	3000	3000	3000	3000	3000	3000
		U	8050	7140	6860	6100	5520	4970	4450
	1000	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	9000	9000
Ixx = 440.7 x 10^3 mm^4	**Mullion Centres**		**800**	**1000**	**1200**	**1400**	**1600**	**1800**	**2000**

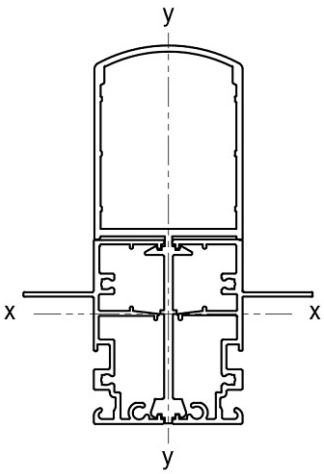
Tables are based on theoretical section properties

3. Loading Tables

RAW115 + RCB1 + RAW115 Mullion / RAW115 + RCB9 + RAW115 Mullion

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

RAW115 + RCB1 + RAW115 MULLION	Window Height		Maximum Design Pressure (Pa)						
	2000	S	500	420					
		U	1630	1350					
	1800	S	700	590	520	480	460		
		U	2040	1700	1490	1360	1290		
	1600	S	1030	870	780	740	720	640	580
		U	2640	2220	1980	1850	1810	1620	1460
	1400	S	1590	1370	1270	1240	1110	1000	900
		U	3540	3040	2790	2710	2430	2190	1970
	1200	S	2650	2380	2300	2070	1860	1670	1500
		U	5050	4480	4300	3870	3480	3130	2820
	1000	S	3000	3000	3000	3000	3000	3000	3000
		U	7880	7430	6680	6010	5400	4870	4380
Ixx = 144 x 10^3 mm^4	Mullion Centres		800	1000	1200	1400	1600	1800	2000

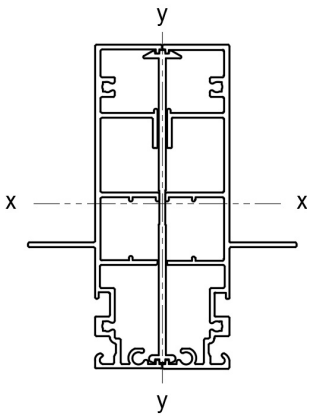
RAW115 + RCB9 + RAW115 MULLION	Window Height		Maximum Design Pressure (Pa)						
	2400	S	1110	910	780	690	630	590	570
		U	1930	1580	1350	1190	1090	1010	960
	2200	S	1450	1190	1030	930	860	810	790
		U	2310	1900	1630	1460	1340	1260	1220
	2000	S	1950	1620	1420	1280	1200	1160	1140
		U	2830	2330	2030	1830	1700	1630	1600
	1800	S	2720	2280	2020	1860	1770	1740	1770
		U	3540	2950	2590	2360	2240	2200	2240
	1600	S	3000	3000	3000	2850	2790	2850	3000
		U	4560	3850	3430	3210	3140	3220	3490
	1400	S	3000	3000	3000	3000	3000	3000	3000
		U	6130	5270	4830	4680	4840	5410	6840
	1200	S	3000	3000	3000	3000	3000	3000	3000
		U	8740	7750	7440	7780	9000	9000	9000
	1000	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	9000	9000
Ixx = 552.3 x 10^3 mm^4	Mullion Centres		800	1000	1200	1400	1600	1800	2000

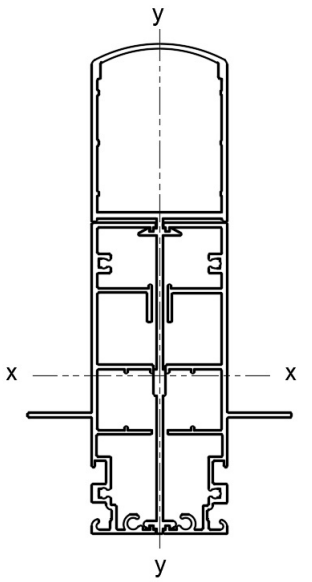
Tables are based on theoretical section properties

3. Loading Tables

RAW112 + RCB7 + RAW112 Mullion / RAW112 + RCB13 + RAW112 Mullion

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

RAW112 + RCB7 + RAW112 MULLION	Window Height		Maximum Design Pressure (Pa)						
	2400	S	1490	1220	1050	940	860	800	770
		U	3050	2500	2140	1890	1720	1610	1530
	2200	S	1960	1610	1400	1250	1160	1100	1060
		U	3660	3010	2590	2310	2120	2000	1930
	2000	S	2640	2190	1910	1730	1620	1560	1540
		U	4470	3700	3210	2890	2690	2580	2540
	1800	S	3000	3000	2720	2510	2390	2350	2390
		U	5600	4660	4090	3740	3550	3490	3550
	1600	S	3000	3000	3000	3000	3000	3000	3000
		U	7220	6090	5430	5080	4960	5090	5530
	1400	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	8340	7640	7410	7660	8560	9000
	1200	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	9000	9000
	1000	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	9000	9000
Ixx = 755 x 10^3 mm^4	**Mullion Centres**		**800**	**1000**	**1200**	**1400**	**1600**	**1800**	**2000**

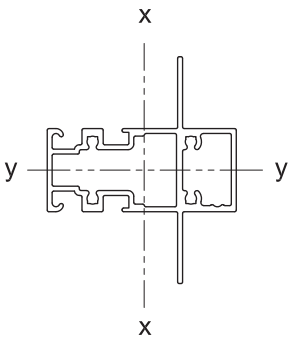
RAW112 + RCB13 + RAW112 MULLION	Window Height		Maximum Design Pressure (Pa)						
	2400	S	3000	2530	2180	1940	1780	1660	1590
		U	3500	2860	2450	2170	1980	1840	1750
	2200	S	3000	3000	2890	2590	2390	2270	2200
		U	4200	3450	2970	2650	2430	2290	2210
	2000	S	3000	3000	3000	3000	3000	3000	3000
		U	5130	4240	3680	3320	3080	2950	2910
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	6420	5350	4690	4290	4070	4000	4070
	1600	S	3000	3000	3000	3000	3000	3000	3000
		U	8280	6980	6230	5820	5690	5830	6340
	1400	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	8750	8500	8780	9000	9000
	1200	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	9000	9000
	1000	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	9000	9000
Ixx = 1530.8 x 10^3 mm^4	**Mullion Centres**		**800**	**1000**	**1200**	**1400**	**1600**	**1800**	**2000**

Tables are based on theoretical section properties

3. Loading Tables

RAW8 Transom

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

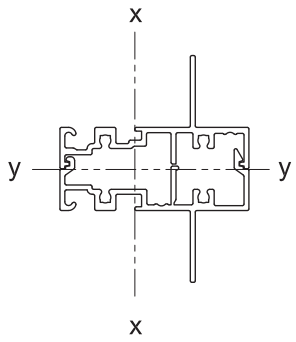
RAW8 TRANSOM	Window Height		Maximum Design Pressure (Pa)					
	2400	S	3000	2130	1270	700	430	
		U	6340	3590	2300	1490	1060	
	2200	S	3000	2370	1280	730	450	
		U	6670	3780	2330	1550	1120	
	2000	S	3000	2640	1320	760	480	
		U	7030	3980	2400	1630	1190	
	1800	S	3000	2680	1380	810	520	
		U	7400	4040	2520	1740	1290	
	1600	S	3000	2780	1470	880	570	
		U	7790	4220	2710	1900	1410	
	1400	S	3000	2970	1610	970	630	440
		U	7970	4540	2970	2110	1580	1230
	1200	S	3000	3000	1810	1110	730	500
		U	8520	5030	3350	2400	1810	1420
	1000	S	3000	3000	2100	1300	860	590
		U	9000	5800	3920	2830	2140	1680
	W (kg)		70	70	70	62	42	29
Ixx = 80.0 x 10^3 mm^4 Iyy = 41.6 x 10^3 mm^4	**Transom Width**		**800**	**1000**	**1200**	**1400**	**1600**	**1800**

Tables are based on theoretical section properties
Transom height is valid anywhere in between 300 - 2100mm spacings.
If deflection is limited to 5mm the above maximum glass weights apply.

3. Loading Tables

RAW1 + RAW11 Transom

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

RAW1 + RAW11 TRANSOM	Window Height		Maximum Design Pressure (Pa)					
	2400	S	3000	2380	1420			
		U	6490	3600	2570			
	2200	S	3000	2650	1430			
		U	7210	4000	2600			
	2000	S	3000	2950	1470			
		U	8010	4450	2680			
	1800	S	3000	2990	1540	910		
		U	8910	4510	2810	1950		
	1600	S	3000	3000	1640	980		
		U	8690	4710	3020	2120		
	1400	S	3000	3000	1800	1090		
		U	8890	5060	3320	2360		
	1200	S	3000	3000	2020	1230		
		U	9000	5620	3740	2680		
	1000	S	3000	3000	2350	1450		
		U	9000	6470	4370	3160		
	W (kg)		70	70	44	27		
Ixx = 89.4 x 10^3 mm^4 Iyy = 18.4 x 10^3 mm^4	**Transom Width**		**800**	**1000**	**1200**	**1400**	**1600**	**1800**

Tables are based on theoretical section properties
Transom height is valid anywhere in between 300 - 2100mm spacings.
If deflection is limited to 5mm the above maximum glass weights apply.

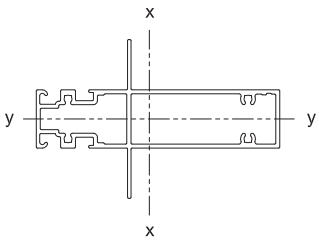
3. Loading Tables

RAW17 Transom

Max Stress = 110Mpa

S = Serviceability limit state l/250

U = Ultimate limit state

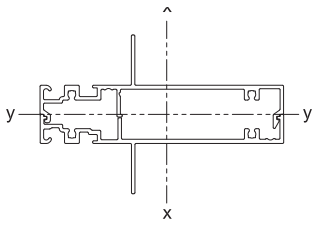
RAW17 TRANSOM	Window Height		Maximum Design Pressure (Pa)					
	2400	S	3000	3000	3000	3000	2190	1460
		U	9000	9000	6180	4010	2850	2150
	2200	S	3000	3000	3000	3000	2290	1540
		U	9000	9000	6240	4160	3000	2280
	2000	S	3000	3000	3000	3000	2440	1650
		U	9000	9000	6430	4380	3200	2450
	1800	S	3000	3000	3000	3000	2620	1790
		U	9000	9000	6760	4680	3450	2660
	1600	S	3000	3000	3000	3000	2870	1970
		U	9000	9000	7260	5090	3790	2940
	1400	S	3000	3000	3000	3000	3000	2210
		U	9000	9000	7970	5660	4240	3300
	1200	S	3000	3000	3000	3000	3000	2530
		U	9000	9000	8990	6450	4860	3800
	1000	S	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	7590	5750	4510
	W (kg)		70	70	70	70	56	39
Ixx = 400.8 x 10^3 mm^4 Iyy = 55.8 x 10^3 mm^4	**Transom Width**		**800**	**1000**	**1200**	**1400**	**1600**	**1800**

Tables are based on theoretical section properties
Transom height is valid anywhere in between 300 - 2100mm spacings.
If deflection is limited to 5mm the above maximum glass weights apply.

3. Loading Tables

RAW13 + RAW114 Transom

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

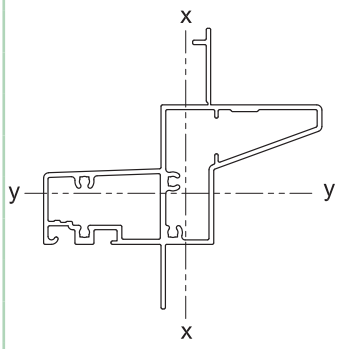
RAW13 + RAW114 TRANSOM	Window Height		Maximum Design Pressure (Pa)					
	2400	S	3000	3000	3000			
		U	9000	9000	6790			
	2200	S	3000	3000	3000			
		U	9000	9000	6860			
	2000	S	3000	3000	3000			
		U	9000	9000	7060			
	1800	S	3000	3000	3000	3000		
		U	9000	9000	7430	5140		
	1600	S	3000	3000	3000	3000		
		U	9000	9000	7970	5590		
	1400	S	3000	3000	3000	3000		
		U	9000	9000	8750	6220		
	1200	S	3000	3000	3000	3000		
		U	9000	9000	9000	7080		
	1000	S	3000	3000	3000	3000		
		U	9000	9000	9000	8330		
	W (kg)		70	70	45	29		
Ixx = 440.1 x 10^3 mm^4 Iyy = 19.2 x 10^3 mm^4	Transom Width		800	1000	1200	1400	1600	1800

Tables are based on theoretical section properties
Transom height is valid anywhere in between 300 - 2100mm spacings.
If deflection is limited to 5mm the above maximum glass weights apply.

3. Loading Tables

RAW25 Transom

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

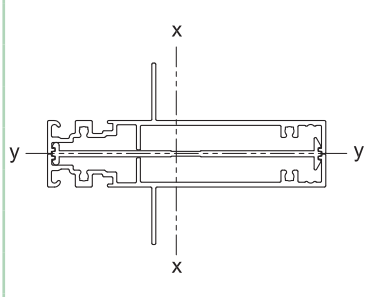
RAW25 TRANSOM	Window Height		Maximum Design Pressure (Pa)						
	2400	S	3000	3000	3000	3000	3000	3000	2850
		U	9000	9000	9000	7150	5480	4340	3450
	2200	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	7520	5770	4570	3550
	2000	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	7920	6080	4620	3660
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	8340	6170	4790	3850
	1600	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	8490	6440	5080	4130
	1400	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	8960	6920	5530	4530
	1200	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	7680	6200	5120
	1000	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	8850	7200	5980
Ixx = 207.2 x 10^3 mm^4 Iyy = 102.35 x 10^3 mm^4	**Transom Width**		**600**	**700**	**800**	**900**	**1000**	**1100**	**1200**

Tables are based on theoretical section properties
Transom height is valid anywhere in between 300 - 2100mm spacings.

3. Loading Tables

RAW114 + RCB7 + RAW114 Transom

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

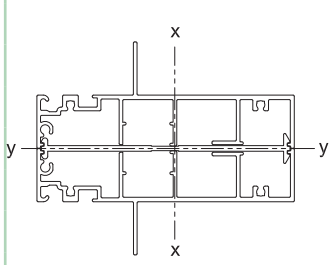
RAW114 / RCB7 / RAW114 TRANSOM	Window Height		Maximum Design Pressure (Pa)					
	2400	S	1130	930	800	710	650	610
		U	2290	1870	1600	1420	1290	1210
	2200	S	1490	1230	1060	950	880	830
		U	2750	2260	1940	1740	1590	1500
	2000	S	2000	1660	1450	1320	1230	1190
		U	3360	2780	2410	2170	2020	1940
	1800	S	2790	2340	2070	1900	1820	1790
		U	4210	3500	3070	2810	2670	2620
	1600	S	3000	3000	3000	2920	2870	2583
		U	5430	4580	4080	3820	3730	3357
	1400	S	3000	3000	3000	3000	2700	2430
		U	7300	6270	5740	5570	5010	4510
	1200	S	3000	3000	3000	3000	3000	3000
		U	9000	9000	8850	7965	7160	6450
	1000	S	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	9000
	W (kg)		70	70	70	70	56	39
Ixx = 568 x 10^3 mm^4 Iyy = 55.8 x 10^3 mm^4	**Transom Width**		**800**	**1000**	**1200**	**1400**	**1600**	**1800**

Tables are based on theoretical section properties
Transom height is valid anywhere in between 300 - 2100mm spacings.
If deflection is limited to 5mm the above maximum glass weights apply.

3. Loading Tables

RAW112 + RCB7 + RAW112 Transom

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

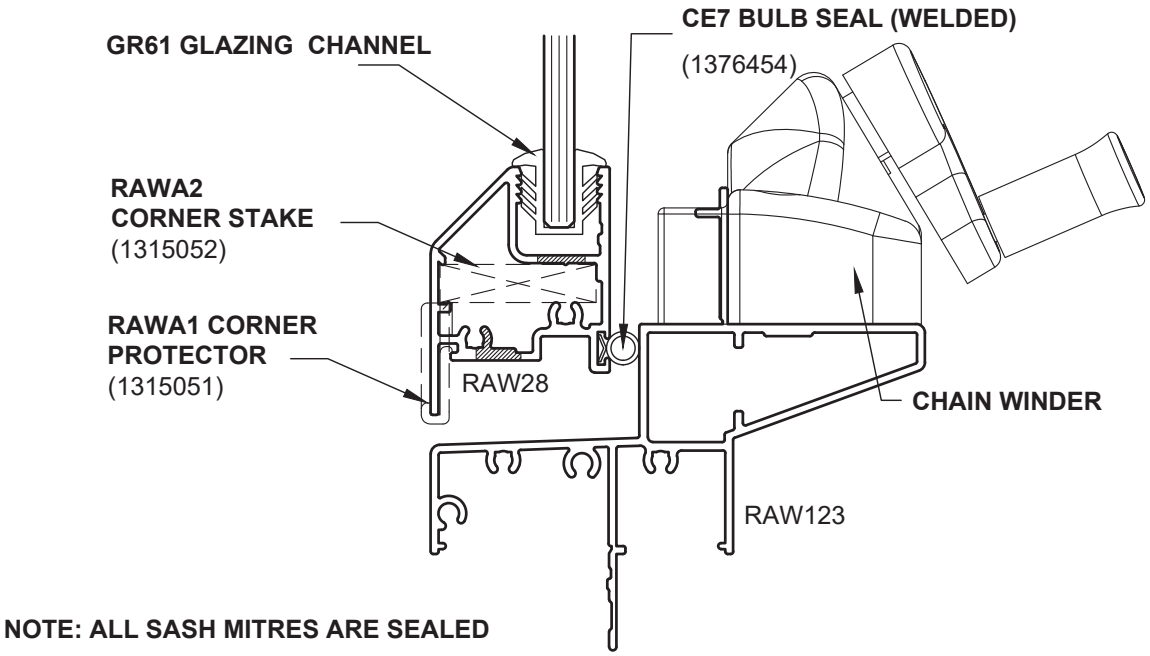
RAW112 / RCB7 / RAW112 TRANSOM	Window Height		Maximum Design Pressure (Pa)						
	2400	S	3000	3000	3000	3000	3000	2990	2100
		U	9000	9000	9000	8960	6380	4800	3770
	2200	S	3000	3000	3000	3000	3000	3000	2240
		U	9000	9000	9000	9000	6710	5100	4020
	2000	S	3000	3000	3000	3000	3000	3000	2410
		U	9000	9000	9000	9000	7150	5470	4340
	1800	S	3000	3000	3000	3000	3000	3000	2620
		U	9000	9000	9000	9000	7720	5950	4740
	1600	S	3000	3000	3000	3000	3000	3000	2900
		U	9000	9000	9000	9000	8480	6570	5250
	1400	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	7390	5930
	1200	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	8500	6840
	1000	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	9000	9000	8130
	W (kg)		70	70	70	70	70	53	39
Ixx = 821 x 10^3 mm^4 Iyy = 76.1 x 10^3 mm^4	**Transom Width**		**800**	**1000**	**1200**	**1400**	**1600**	**1800**	**2000**

Tables are based on theoretical section properties
Transom height is valid anywhere in between 300 - 2100mm spacings.
If deflection is limited to 5mm the above maximum glass weights apply.

4. Test Summary

AS2047 - Single Awning

TEST REPORT:	AS11-165
SYSTEM CONFIGURATION	50mm AWNING WINDOW WITH RAW28 / RAW27 SASH - SINGLE AWNING
TEST SAMPLE SIZE	2.1m High x 0.60m Wide
SERVICEABILITY LOAD	+/- 0.7 kPa
ULTIMATE LOAD	+/- 1.0 kPa
WATER PENETRATION	150 Pa
AIR INFILTRATION	@75 Pa + 0.16L/s/m² - 0.11L/s/m² @150 Pa + 0.23L/s/m² - 0.25L/s/m²



DISCLAIMER:
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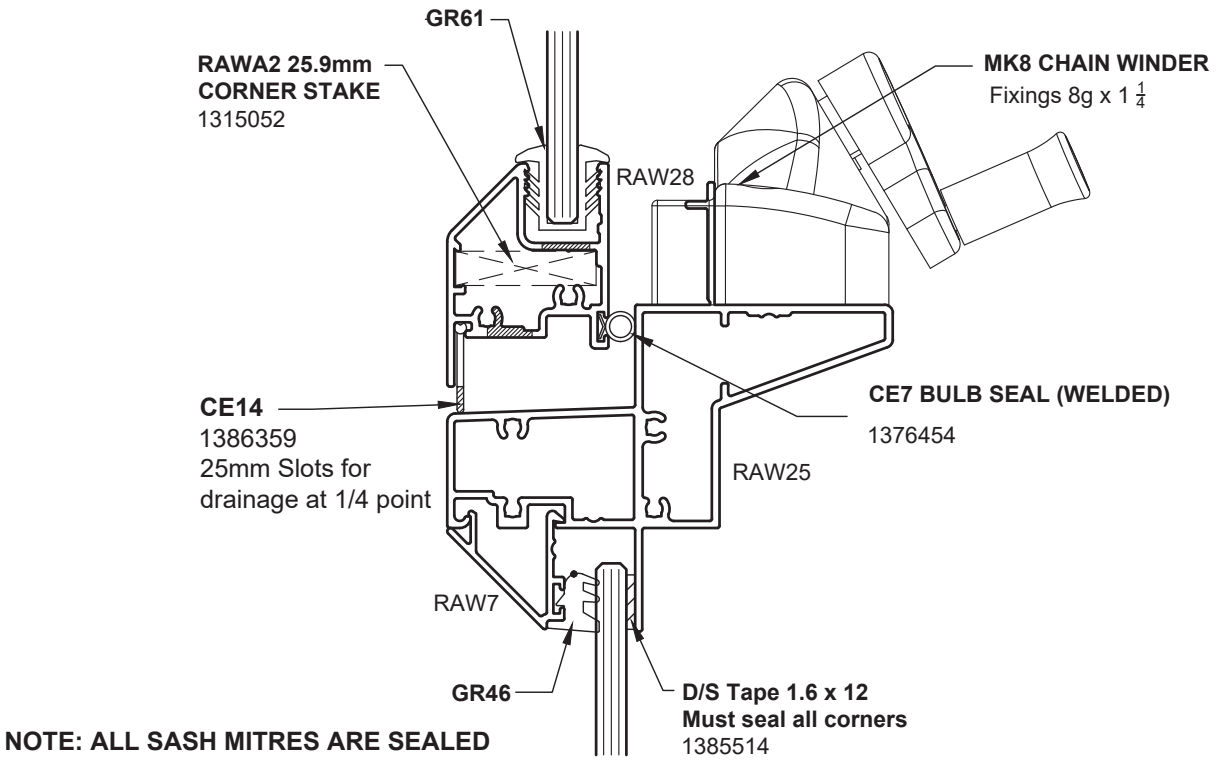
4. Test Summary

AS2047 - Awning Fixed Over Fixed Fixed

TEST REPORT:	AS13-201
SYSTEM CONFIGURATION	50mm AWNING WINDOW WITH RAW28 / RAW27 SASH - AWNING FIXED OVER FIXED FIXED
TEST SAMPLE SIZE	1.8m High x 1.81m Wide
SERVICEABILITY LOAD	+/- 1.0 kPa
ULTIMATE LOAD	+/- 1.5 kPa
WATER PENETRATION	300 Pa
AIR INFILTRATION	@ 75 Pa + 0.12L/s/m² + 0.06L/s/m² @ 150 Pa + 0.12L/s/m² + 0.08L/s/m²



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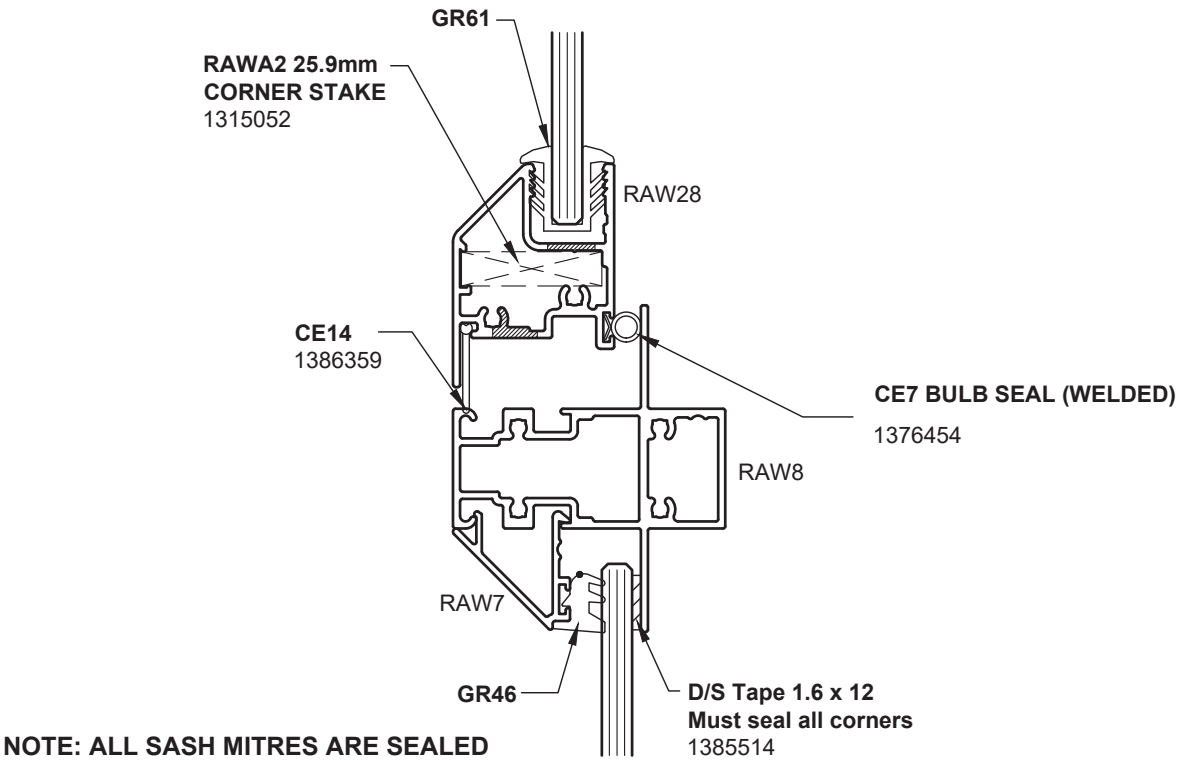
4. Test Summary

AS2047 - Awning Over Fixed

TEST REPORT:	AS13-212
SYSTEM CONFIGURATION	50mm AWNING WINDOW WITH RAW28 SASH & STAYS - AWNING OVER FIXED
TEST SAMPLE SIZE	1.8m High x 0.9m Wide
SERVICEABILITY LOAD	+/- 1.5 kPa
ULTIMATE LOAD	+/- 2.3 kPa
WATER PENETRATION	450 Pa
AIR INFILTRATION	@ 75 Pa + 0.08L/s/m² + 0.13L/s/m² @ 150 Pa + 0.60L/s/m² + 0.62L/s/m²



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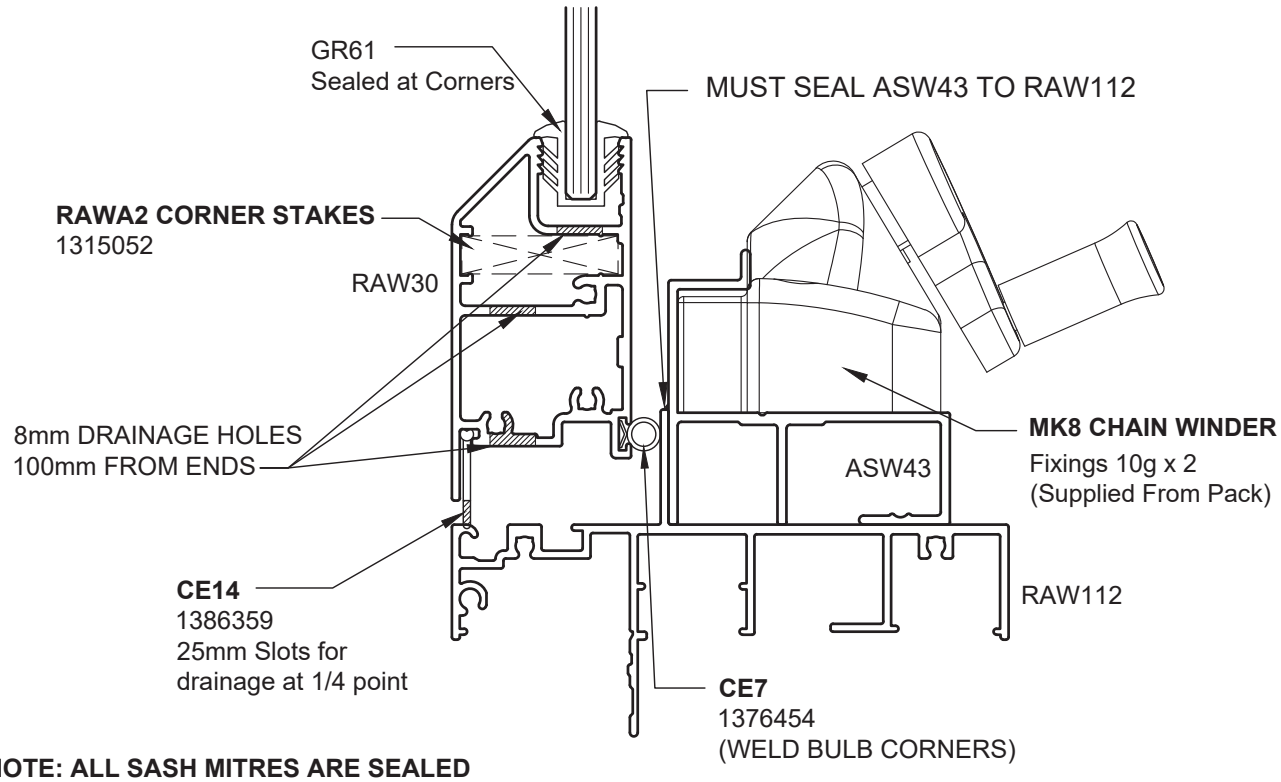
4. Test Summary

AS2047 - Awning Fixed

TEST REPORT:	AS13-202
SYSTEM CONFIGURATION	92mm AWNING WINDOW WITH RAW30 / RAW29 SASH - AWNING FIXED
TEST SAMPLE SIZE	1.5m High x 1.8m Wide
SERVICEABILITY LOAD	+/- 3.0 kPa
ULTIMATE LOAD	+/- 4.5 kPa
WATER PENETRATION	450 Pa
AIR INFILTRATION	@ 75 Pa + 0.08L/s/m² + 0.10L/s/m² @ 150 Pa + 0.06L/s/m² + 0.23L/s/m²



NOTE: ALL SASH MITRES ARE SEALED

DISCLAIMER:
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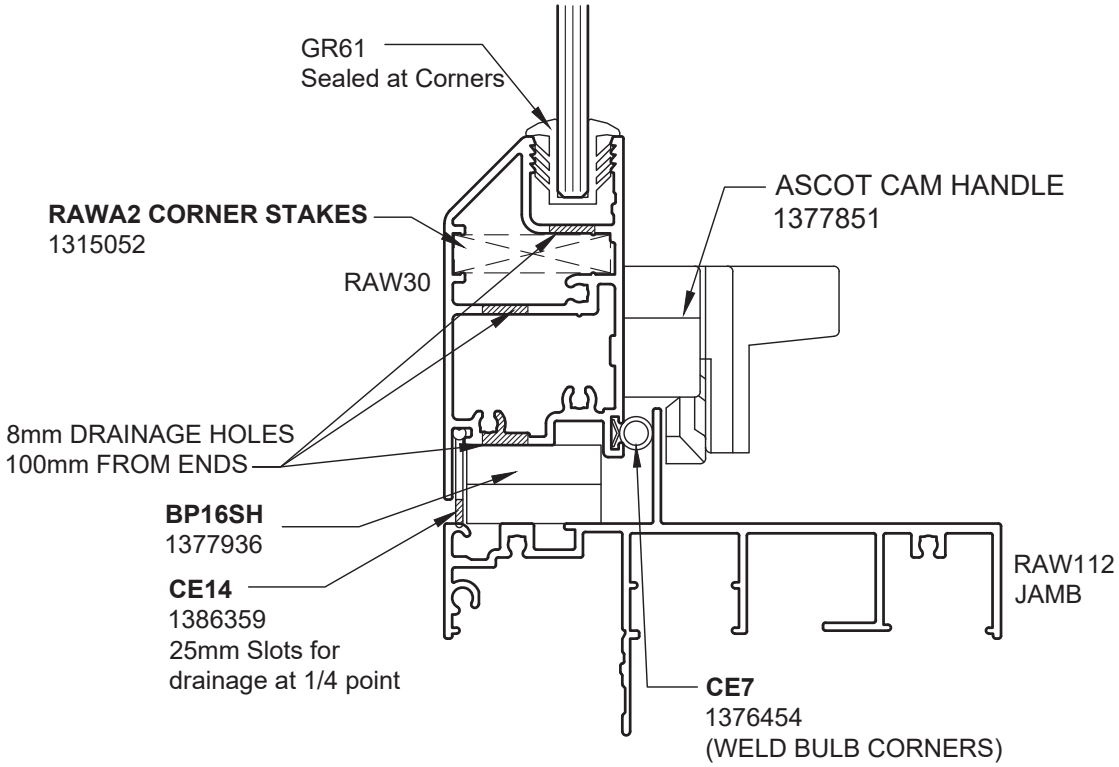
4. Test Summary

AS2047 - Single Casement

TEST REPORT:	AS13-213
SYSTEM CONFIGURATION	92mm CASEMENT WINDOW WITH RAW30 SASH - SINGLE CASEMENT
TEST SAMPLE SIZE	1.5m High x 0.85m Wide
SERVICEABILITY LOAD	+/- 1.5 kPa
ULTIMATE LOAD	+/- 2.3 kPa
WATER PENETRATION	220 Pa
AIR INFILTRATION	@ 75 Pa + 0.29L/s/m² + 0.18L/s/m² @ 150 Pa + 0.23L/s/m² + 0.96L/s/m²



NOTE: ALL SASH MITRES ARE SEALED

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4. Test Summary

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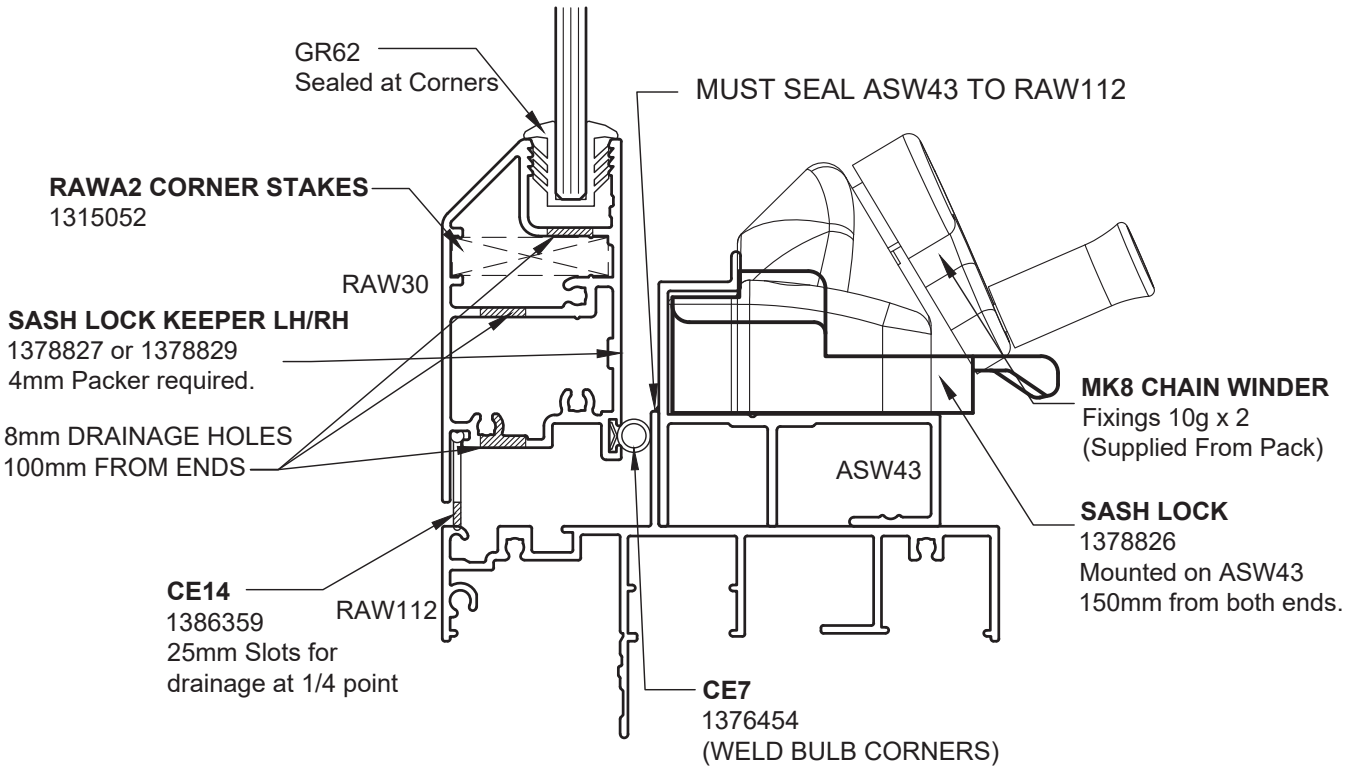
WINDOWS AND DOORS

AS2047 - Single Awning

TEST REPORT:	AS14-239
SYSTEM CONFIGURATION	92mm AWNING WINDOW WITH RAW30 SASH - SINGLE AWNING USING 8.38mm GLASS
TEST SAMPLE SIZE	1.2m High x 0.9m Wide
SERVICEABILITY LOAD	+/- 3.0 kPa
ULTIMATE LOAD	+/- 8.8 kPa
WATER PENETRATION	602 Pa
AIR INFILTRATION	@ 75 Pa + 0.00L/s/m² + 0.74L/s/m² @ 150 Pa + 0.00L/s/m² + 1.93L/s/m²



NOTE: ALL SASH MITRES ARE SEALED

DISCLAIMER:
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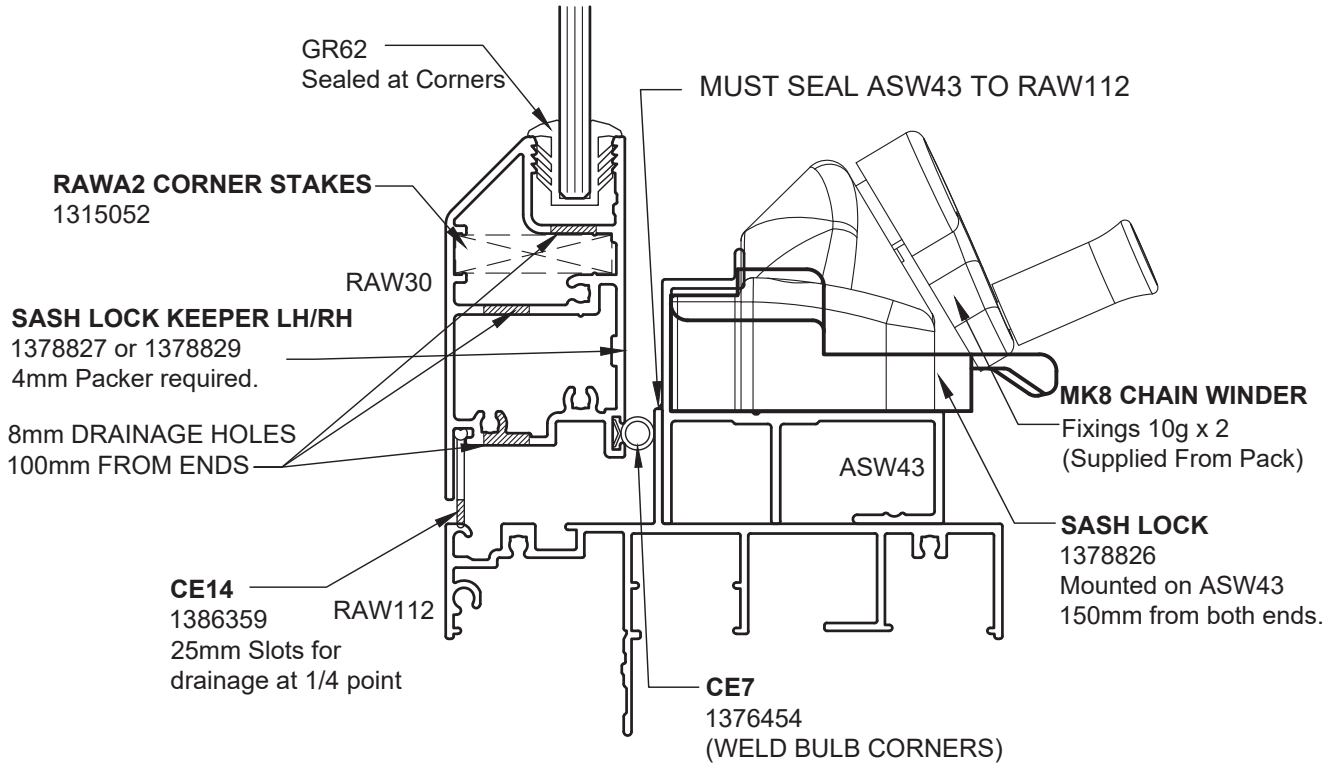
4. Test Summary

carinya RESIDENTIAL WINDOWS AND DOORS

AS2047 - Single Awning

TEST REPORT:	AS14-241
SYSTEM CONFIGURATION	92mm AWNING WINDOW WITH RAW30 SASH - SINGLE AWNING USING 8.38mm GLASS
TEST SAMPLE SIZE	0.6m High x 01.8m Wide
SERVICEABILITY LOAD	+/- 3.0 kPa
ULTIMATE LOAD	+/- 8.8 kPa
WATER PENETRATION	600 Pa
AIR INFILTRATION	@ 75 Pa + 0.15L/s/m² + 0.65L/s/m² @ 150 Pa + 0.11L/s/m² + 1.93L/s/m²



NOTE: ALL SASH MITRES ARE SEALED

DISCLAIMER:
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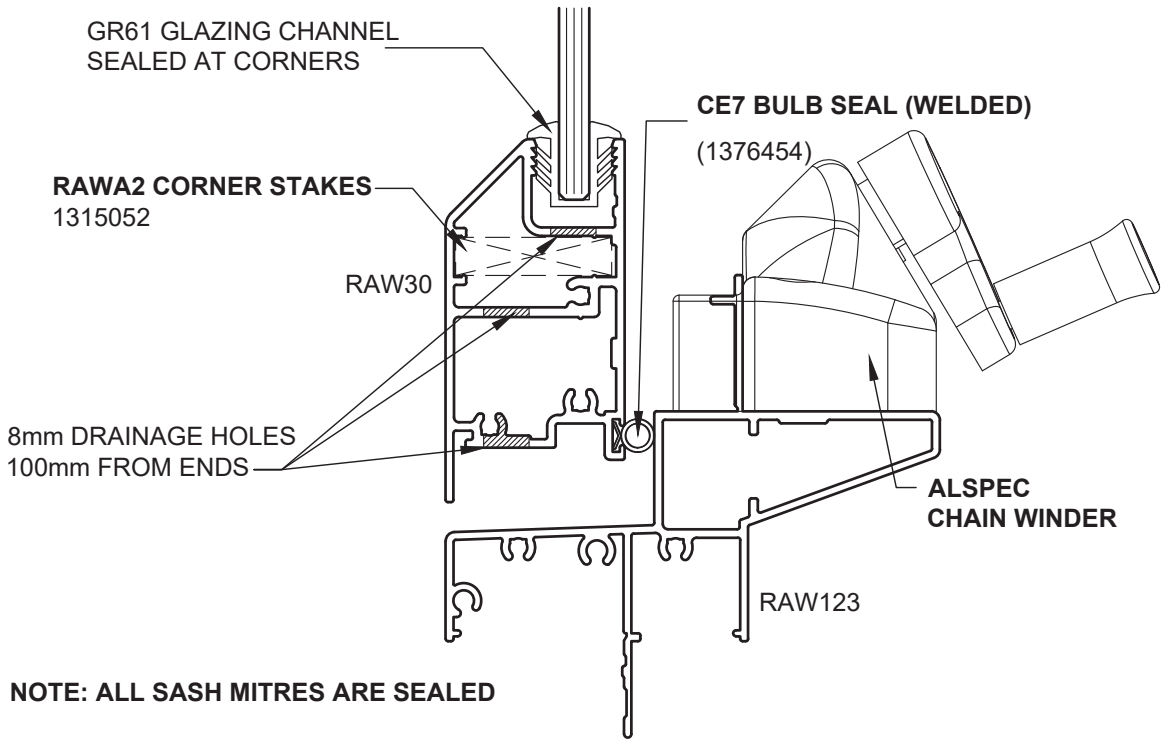
4. Test Summary

AS2047 - Single Awning - Single Chainwinder

TEST REPORT:	AS17-322
SYSTEM CONFIGURATION	50mm SINGLE AWNING FRAME WINDOW WITH RAW30 SASH - 1 CHAIN WINDER
TEST SAMPLE SIZE	0.6m High x 2.1m Wide
SERVICEABILITY LOAD	+/- 0.6 kPa
ULTIMATE LOAD	+/- 1.4 kPa
WATER PENETRATION	251 Pa
AIR INFILTRATION	@ 75 Pa + 0.18L/s/m² + 0.76L/s/m²
OPERATING FORCE INITIATING MOVEMENT SUSTAINING MOVEMENT	 11 N 31 N



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4. Test Summary

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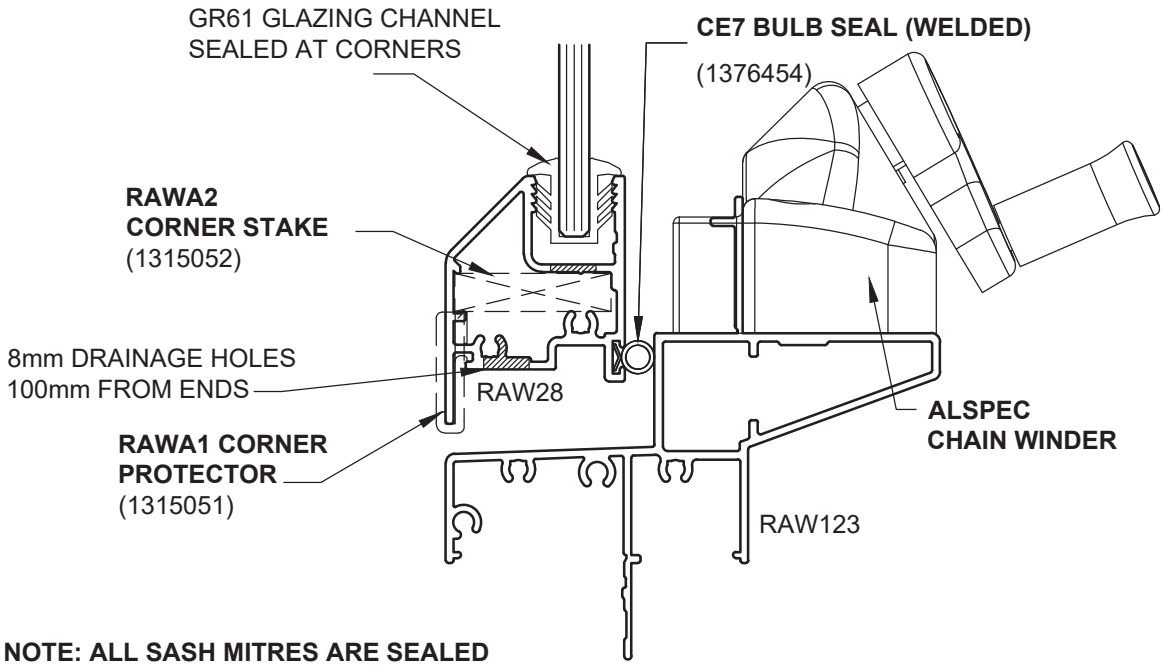
WINDOWS AND DOORS

AS2047 - Single Awning - Single Chainwinder

TEST REPORT:	AS17-324
SYSTEM CONFIGURATION	50mm SINGLE AWNING FRAME WINDOW WITH RAW28 SASH - 1 CHAIN WINDER
TEST SAMPLE SIZE	0.6m High x 1.6m Wide
SERVICEABILITY LOAD	+/- 0.8 kPa
ULTIMATE LOAD	+/- 2.0 kPa
WATER PENETRATION	251 Pa
AIR INFILTRATION	@ 75 Pa + 0.78L/s/m² + 2.56L/s/m²
OPERATING FORCE INITIATING MOVEMENT SUSTAINING MOVEMENT	 10 N 25 N



DISCLAIMER:
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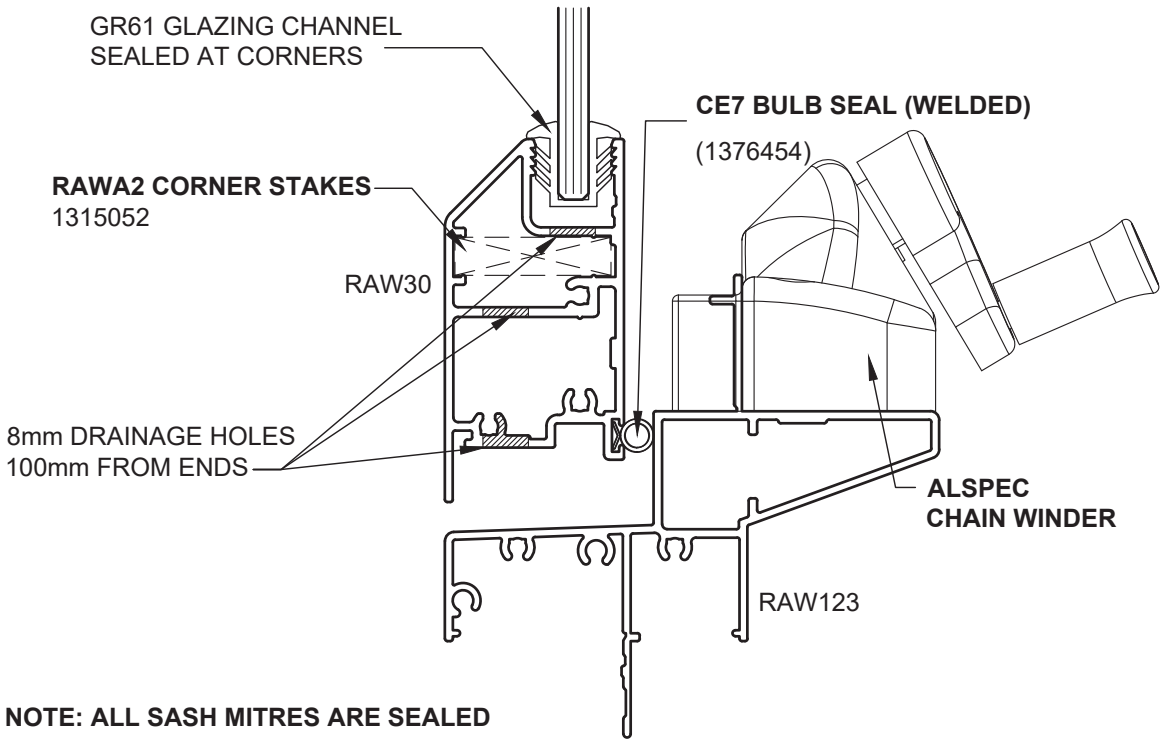
4. Test Summary

AS2047 - Single Awning - Single Chainwinder & 2 Cam Handles

TEST REPORT:	AS17-323
SYSTEM CONFIGURATION	50mm SINGLE AWNING FRAME WINDOW WITH RAW30 SASH - 1 CHAIN WINDER & 2 CAM HANDLES
TEST SAMPLE SIZE	0.6m High x 2.1m Wide
SERVICEABILITY LOAD	+/- 1.2 kPa
ULTIMATE LOAD	+/- 3.0 kPa
WATER PENETRATION	305 Pa
AIR INFILTRATION @ 75 Pa	+ 0.09L/s/m² - 0.06L/s/m²
OPERATING FORCE INITIATING MOVEMENT SUSTAINING MOVEMENT	 12 N 30 N



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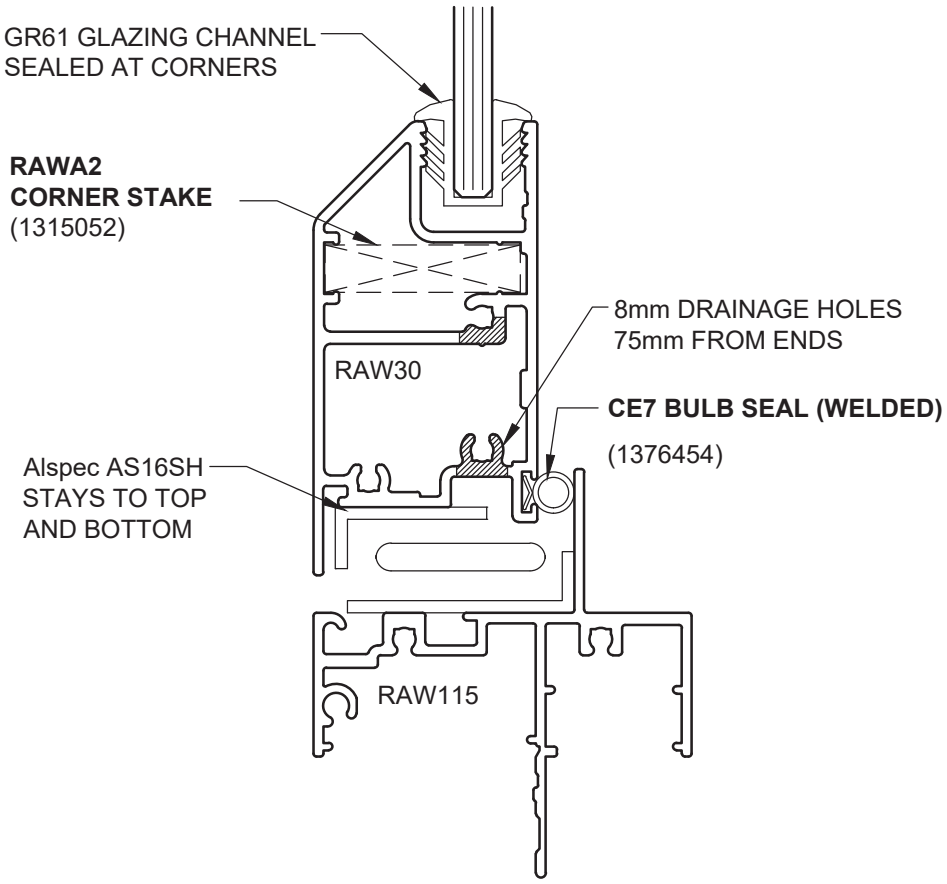
4. Test Summary

AS2047 - 50mm Casement Window

TEST REPORT:	AS19-403
SYSTEM CONFIGURATION	50mm CASEMENT WINDOW WITH RSW30 SASH RAW115 FRAME
TEST SAMPLE SIZE	1.3m High x 0.7m Wide
SERVICEABILITY LOAD	N/A
ULTIMATE LOAD	+/- 4.0 kPa
WATER PENETRATION	452 Pa
AIR INFILTRATION @ 75 Pa	+ 2.64L/s/m² + 1.84L/s/m²



NOTE:
Bristol BP16SH Stays supersede Alspec AS16SH Stays

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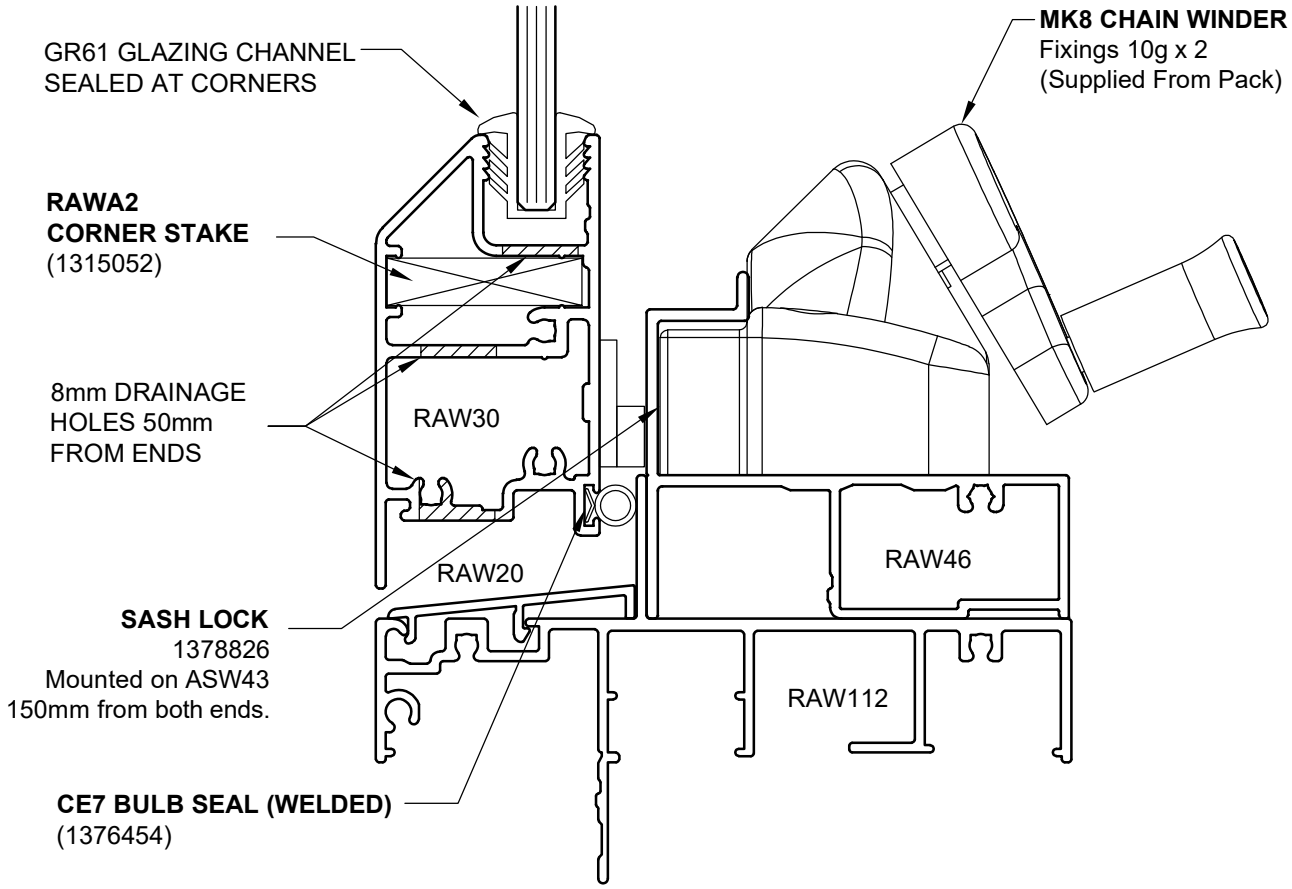
4. Test Summary

AS2047 - Single Awning - Single Chainwinder & 2 Cam Handles

TEST REPORT:	OT20-009
SYSTEM CONFIGURATION	92mm AWNING FRAME WINDOW WITH RAW30 SASH - CAM HANDLES AND CHAIN WINDER
TEST SAMPLE SIZE	1.5m High x 1.2m Wide
SERVICEABILITY LOAD	N/A
ULTIMATE LOAD	+/- 3.0 kPa
WATER PENETRATION	455 Pa
AIR INFILTRATION @ 75 Pa	+ 0.21 L/s/m² - 0.16 L/s/m²



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4. Test Summary

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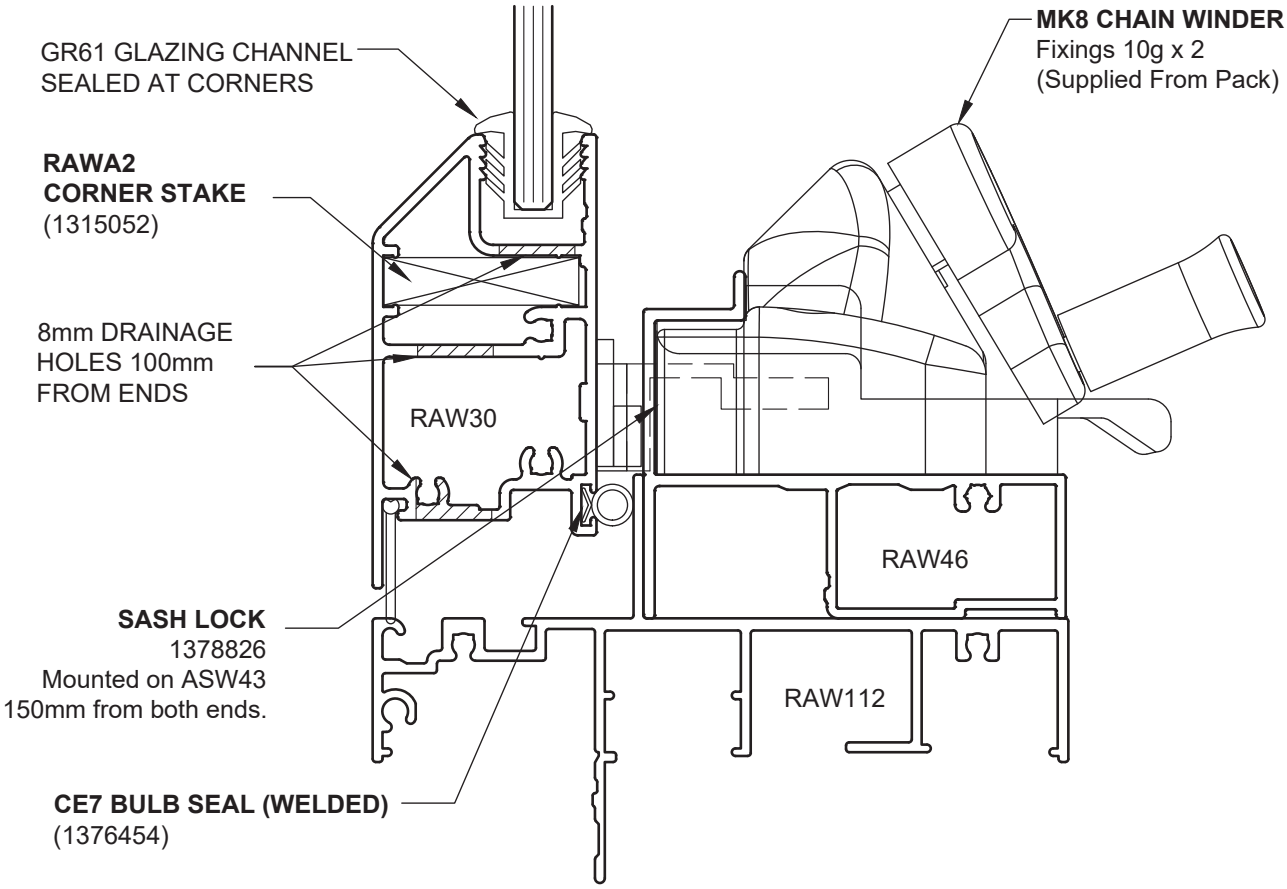
AS2047 - Single Awning - Single Chainwinder & Sash Locks

TEST REPORT:	OT22-109
SYSTEM CONFIGURATION	92mm AWNING FRAME WINDOW WITH RAW30 SASH - SASH LOCKS AND CHAIN WINDER - 6mm TOUGHENED GLASS
TEST SAMPLE SIZE	1.045m High x 1.145m Wide
SERVICEABILITY LOAD	N/A
ULTIMATE LOAD	+/- 5.34 kPa
WATER PENETRATION	601 Pa
AIR INFILTRATION @ 75 Pa	+ 0.08 L/s/m² - 0.06 L/s/m²



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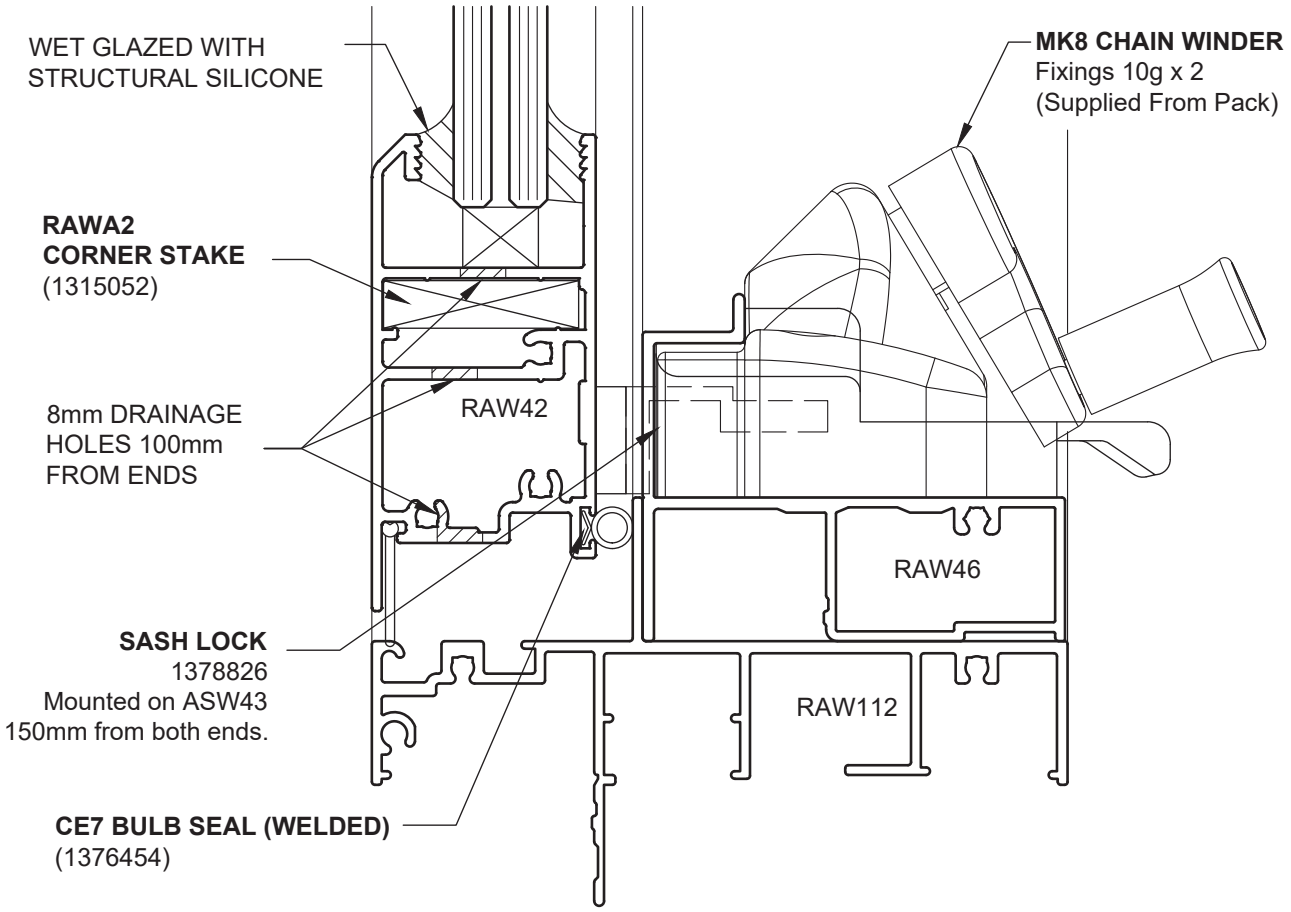
4. Test Summary

AS2047 - Single Awning - Single Chainwinder & Sash Locks

TEST REPORT:	OT22-111
SYSTEM CONFIGURATION	92mm AWNING FRAME WINDOW WITH RAW42 SASH - SASH LOCKS AND CHAIN WINDER - 12.4mm STORMSHIELD GLASS
TEST SAMPLE SIZE	1m High x 1.1m Wide
SERVICEABILITY LOAD	+/- 1.65 kPa
ULTIMATE LOAD	+/- 5.33 kPa
WATER PENETRATION	452 Pa
AIR INFILTRATION @ 75 Pa	+ 0.13 L/s/m² - 0.15 L/s/m²



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4. Test Summary

Acoustic - AS/NZS ISO 717.1

TEST REPORT	PRODUCT DESCRIPTION	SIZE	GLASS	SEALS	STC	Rw
4863-8	50mm CARINYA CLASSIC FIXED / AWNING	1.164m (H) x 1.764m (W)	6.38mm CLEAR LAMINATE	BULB & EXTERNAL SEAL	33	33 (-1,-3)
4863-7	50mm CARINYA CLASSIC FIXED / FIXED	1.164m (H) x 1.764m (W)	6.38mm CLEAR LAMINATE	TAPE & GR46 WEDGE	33	33 (-1,-3)
14-122/PD	50mm CARINYA CLASSIC AWNING / FIXED & SECONDARY SLIDING WINDOW	1.2m (H) x 1.8m (W)	6.38mm CLEAR LAMINATE & 10.5mm HUSH LAMINATE	CE7& CE14	47	47 (-2,-5)
14-121/PD	50mm CARINYA CLASSIC AWNING / FIXED & SECONDARY SLIDING WINDOW	1.2m (H) x 1.8m (W)	10.5mm HUSH LAMINATE & 10.5mm HUSH LAMINATE	CE7& CE14	49	49 (-2,-4)

BAL40 - AS 1530.8.1

TEST REPORT	PRODUCT DESCRIPTION	SIZE	GLASS	SEALS	RESULT
28223400	AWNING WINDOW	0.66m (H) x 0.86m (W)	6mm CLEAR TOUGHENED	GR61FR	BALA40
FRT230002.R1	FIXED WINDOW	2.61 (H) X 2.61 (W)	6/12/6 CLEAR TOUGHENED	GR44FR	BALAA40

Protection of Openable Windows / Fall Revention - AS5203

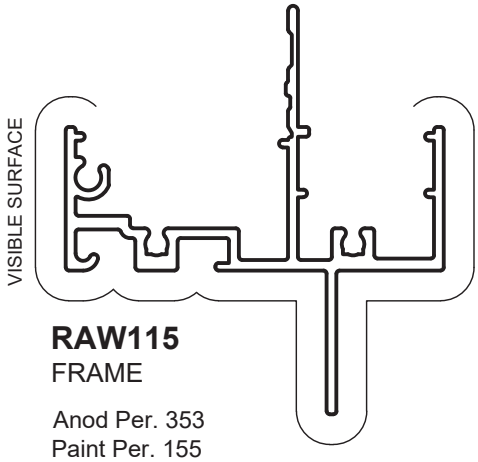
TEST REPORT	SIZE	RESTRICTED SCREEN SOLUTION	RESULT
POW12-002	1.5m (H) x 0.9m (W)	- KidScreen 11mm - Invisi-Gard Screen - AluGard SCreen - A117 Small DIamond Grill - 7mm Diamond Grill	PASS

Impact - AS/NZS 1170.2, SECTION 2.5.7 & 5.3.2

TEST REPORT	GLASS	SIZE	RESULT
OT.DI22-03	12.4mm STORMSHIELD - STRUCTURAL SILICONE	1m (H) x 1.1m (W)	36m/s
OT.DI22-04	12.4mm STORMSHIELD - GLAZING CHANNEL	1m (H) x 1.1m (W)	36m/s

5. Extrusions

Framing

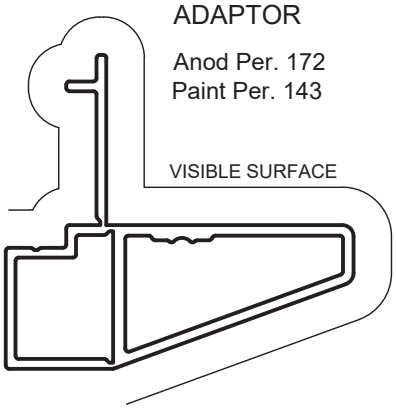


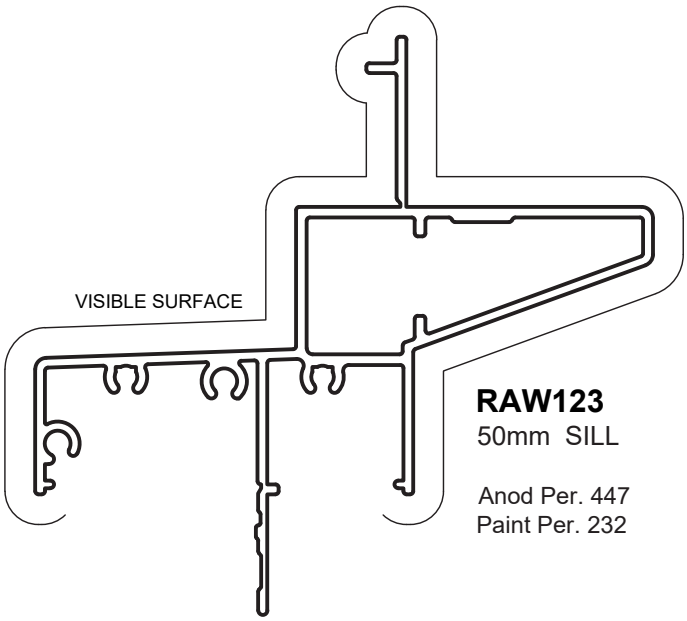
RAW115
FRAME

Anod Per. 353
Paint Per. 155

RAW24
50mm WINDER
ADAPTOR

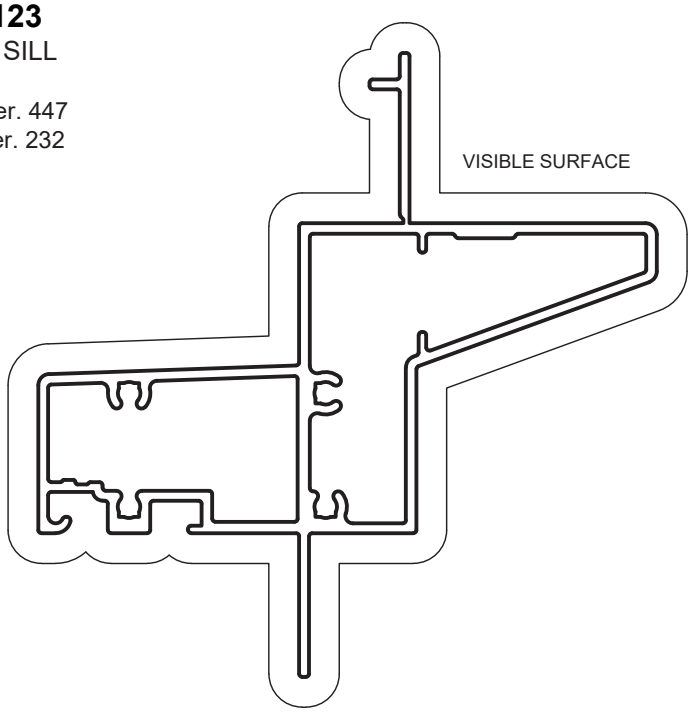
Anod Per. 172
Paint Per. 143





RAW123
50mm SILL

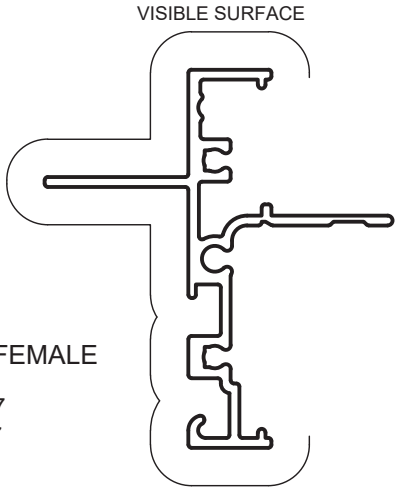
Anod Per. 447
Paint Per. 232



RAW25
50mm WINDER
TRANSOM

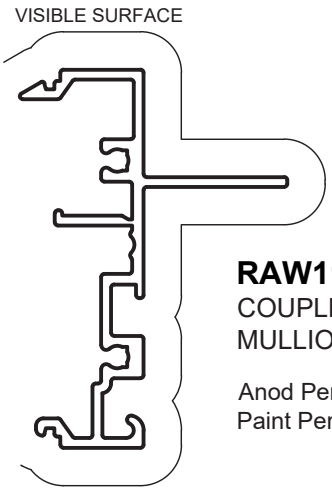
Anod Per. 349
Paint Per. 349

Framing



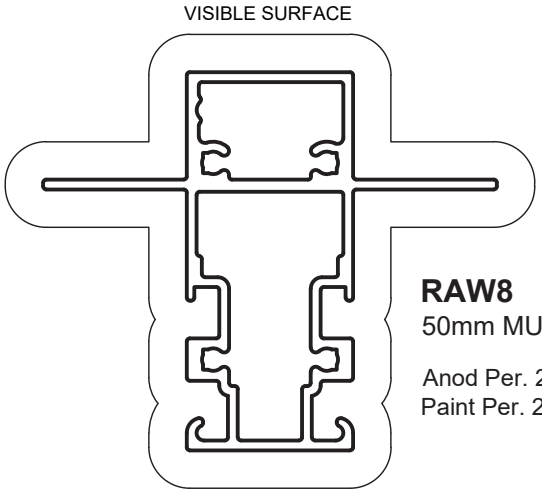
RAW1
COUPLED
MULLION - FEMALE

Anod Per. 287
Paint Per. 137



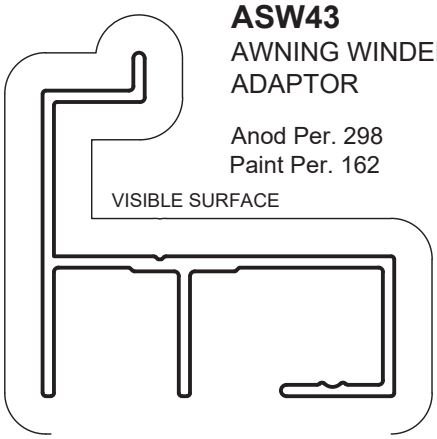
RAW11
COUPLED
MULLION - MALE

Anod Per. 275
Paint Per. 150



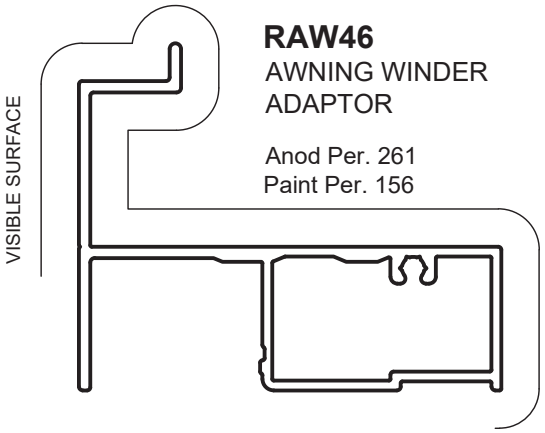
RAW8
50mm MULLION / TRANSOM

Anod Per. 272
Paint Per. 272



ASW43
AWNING WINDER
ADAPTOR

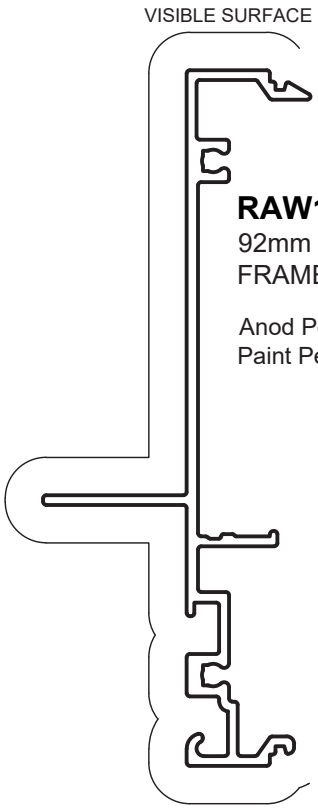
Anod Per. 298
Paint Per. 162



RAW46
AWNING WINDER
ADAPTOR

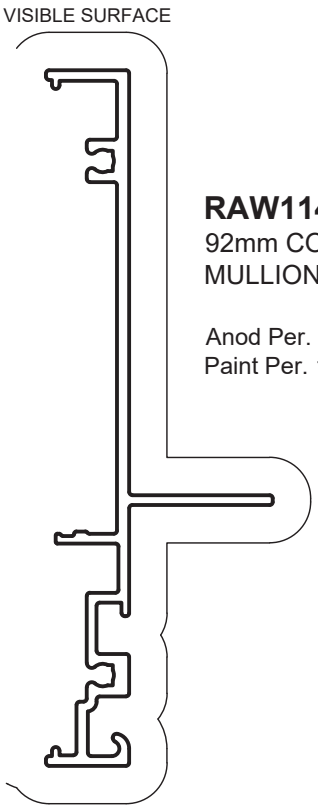
Anod Per. 261
Paint Per. 156

Framing



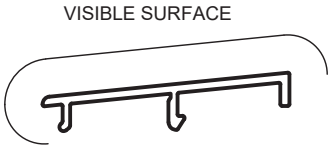
RAW13
92mm COUPLED FRAME

Anod Per. 358
Paint Per. 179



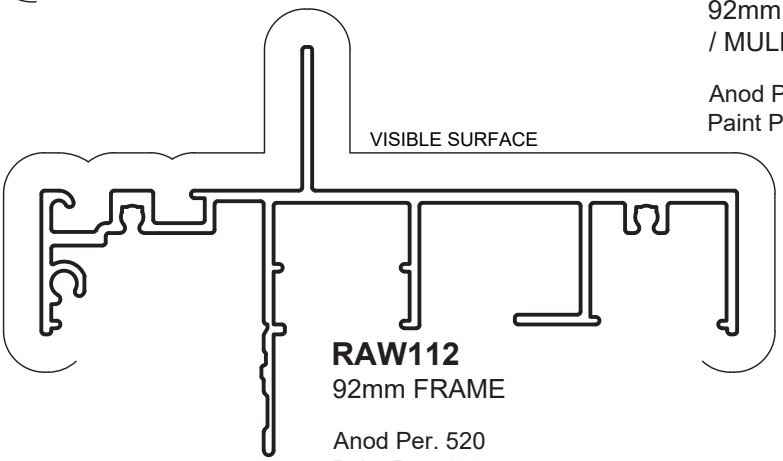
RAW114
92mm COUPLED MULLION

Anod Per. 329
Paint Per. 180



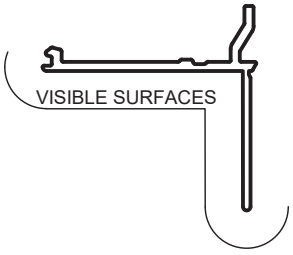
RAW20
INFILL

Anod Per. 100
Paint Per. 100



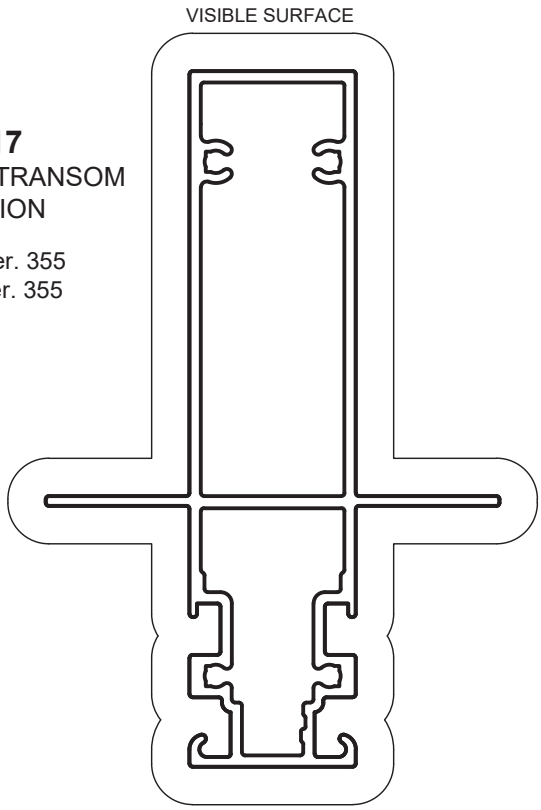
RAW112
92mm FRAME

Anod Per. 520
Paint Per. 198



RSW154
EXTERNAL INFILL

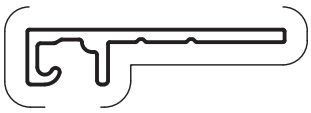
Anod Per. 115
Paint Per. 100



RAW17
92mm TRANSOM / MULLION

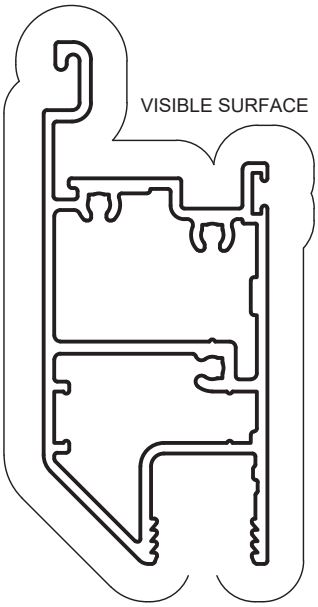
Anod Per. 355
Paint Per. 355

Framing



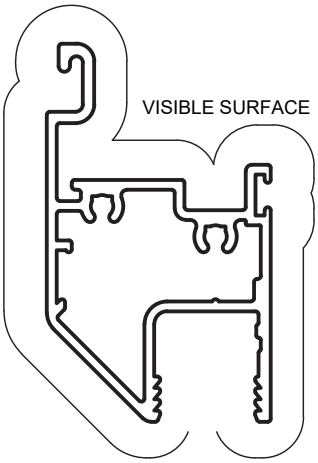
RAW40
AWNING TOP HINGE

Anod Per. 100
Paint Per. 100



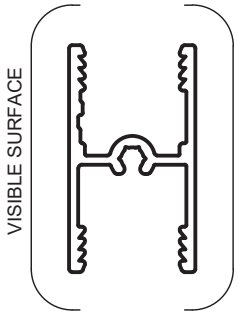
RAW29
SG 60mm
HINGE SASH

Anod Per. 267
Paint Per. 218



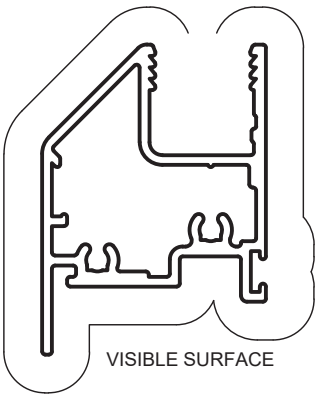
RAW27
SG HINGE SASH

Anod Per. 229
Paint Per. 180



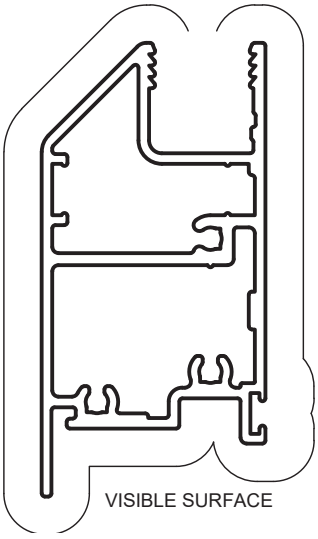
RAW22
30mm MID - RAIL

Anod Per. 179
Paint Per. 100



RAW28
SG SASH

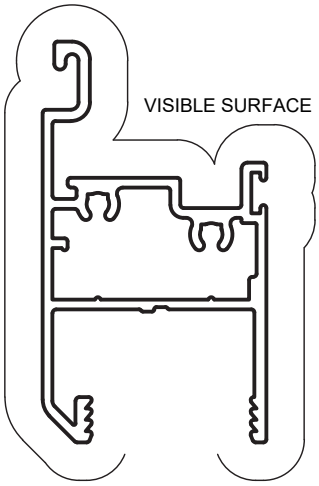
Anod Per. 194
Paint Per. 146



RAW30
SG 60mm SASH

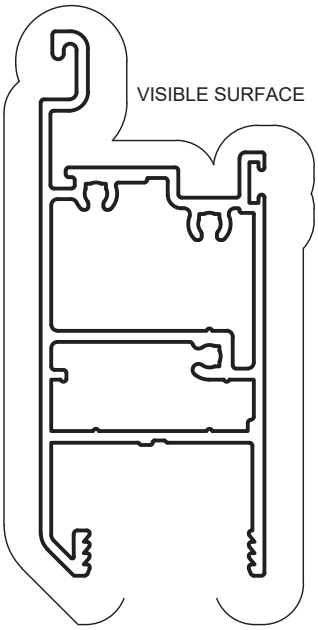
Anod Per. 233
Paint Per. 184

Framing



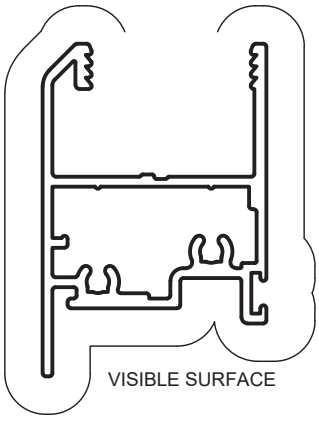
RAW43
DG HINGE SASH

Anod Per. 261
Paint Per. 183



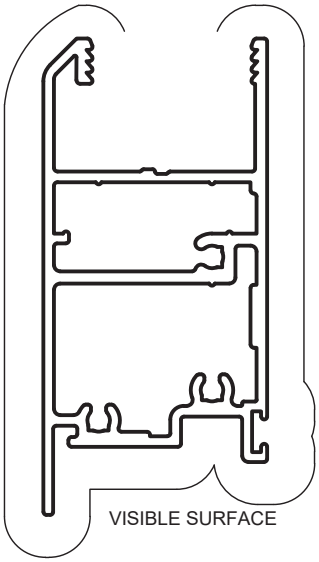
RAW41
DG 63mm
HINGE SASH

Anod Per. 298
Paint Per. 220



RAW44
DG SASH

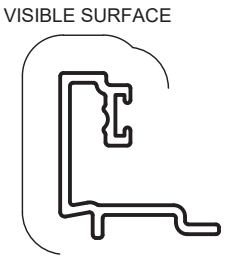
Anod Per. 226
Paint Per. 148



RAW42
DG 63mm SASH

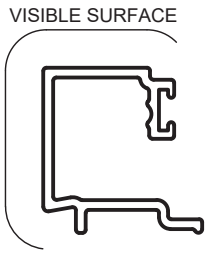
Anod Per. 264
Paint Per. 185

Framing



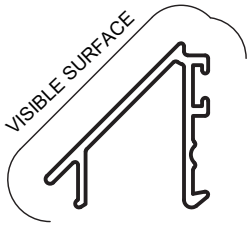
RAW10
DOUBLE GLAZE BEAD

Anod Per. 127
Paint Per. 100



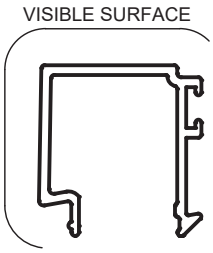
RAW18
THICK GLASS BEAD

Anod Per. 144
Paint Per. 100



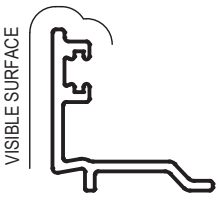
RAW7
SG BEAD

Anod Per. 122
Paint Per. 100



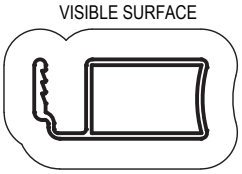
RAW26
SG SQUARE BEAD

Anod Per. 144
Paint Per. 100



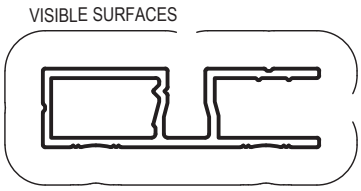
RAW36
24MM D/GLZ BEAD

Anod Per. 102
Paint Per. 100



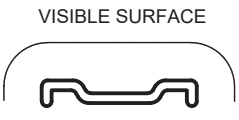
FS2
25mm Fly Screen Frame

Anod. Per. 100
Paint Per. 100



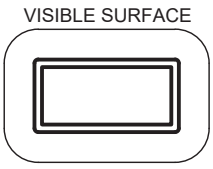
SW1
Security Window Frame

Anod. Per. 142
Paint Per. 142



ASM-1041
COLONIAL BAR

Anod Per. 100
Paint Per. 100



Q4750
SPREADER BAR

Anod Per. 100
Paint Per. 100

Framing

RCB1
50mm COUPLER

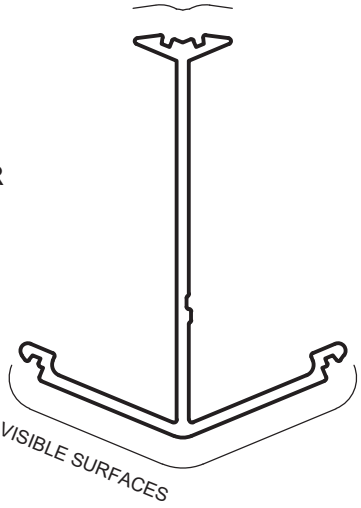
Anod Per . 124

Ixx = 23.6. x 10^3 mm^4

RCB2
135 Deg COUPLER

Anod Per. 232
Paint Per. 100

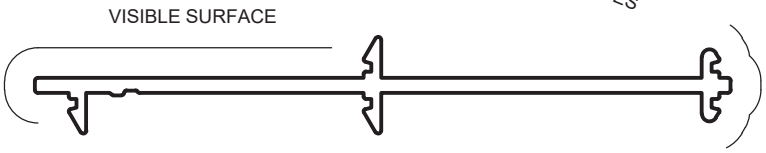
Ixx = 58.1. x 10^3 mm^4



RCB4
92mm CORNER COUPLER ADAPTOR

Anod. Per. 237
Paint Per. 100

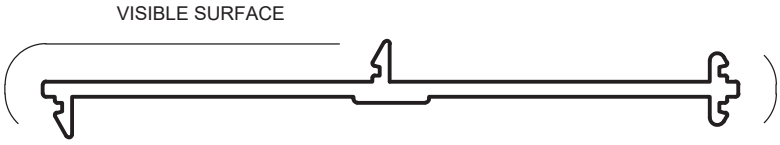
Ixx = 168. x 10^3 mm^4



RCB8
50mm -92mm COUPLER

Anod Per . 226
Paint Per. 100

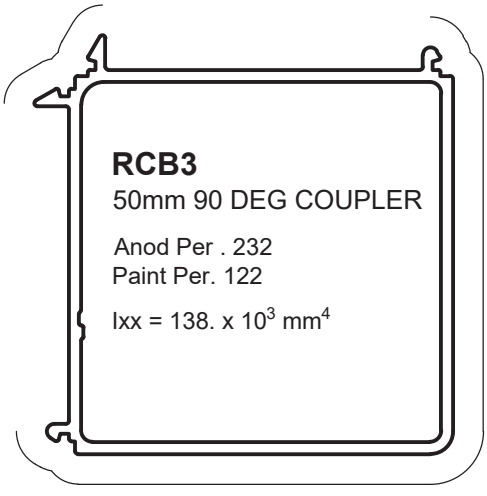
Ixx = 170.15 x 10^3 mm^4



RCB3
50mm 90 DEG COUPLER

Anod Per . 232
Paint Per. 122

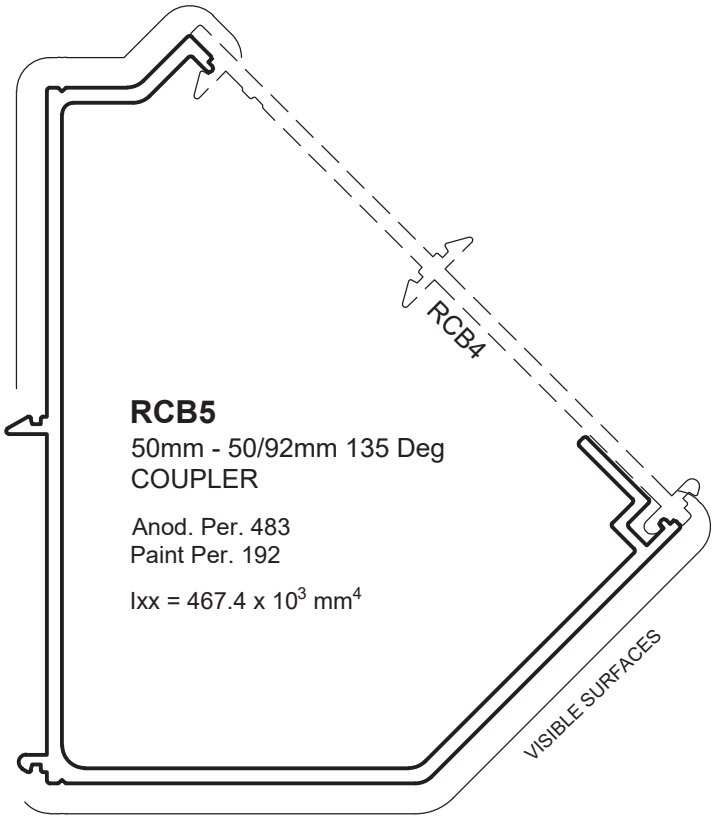
Ixx = 138. x 10^3 mm^4



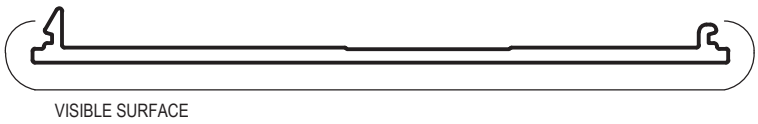
RCB5
50mm - 50/92mm 135 Deg COUPLER

Anod. Per. 483
Paint Per. 192

Ixx = 467.4 x 10^3 mm^4



Framing

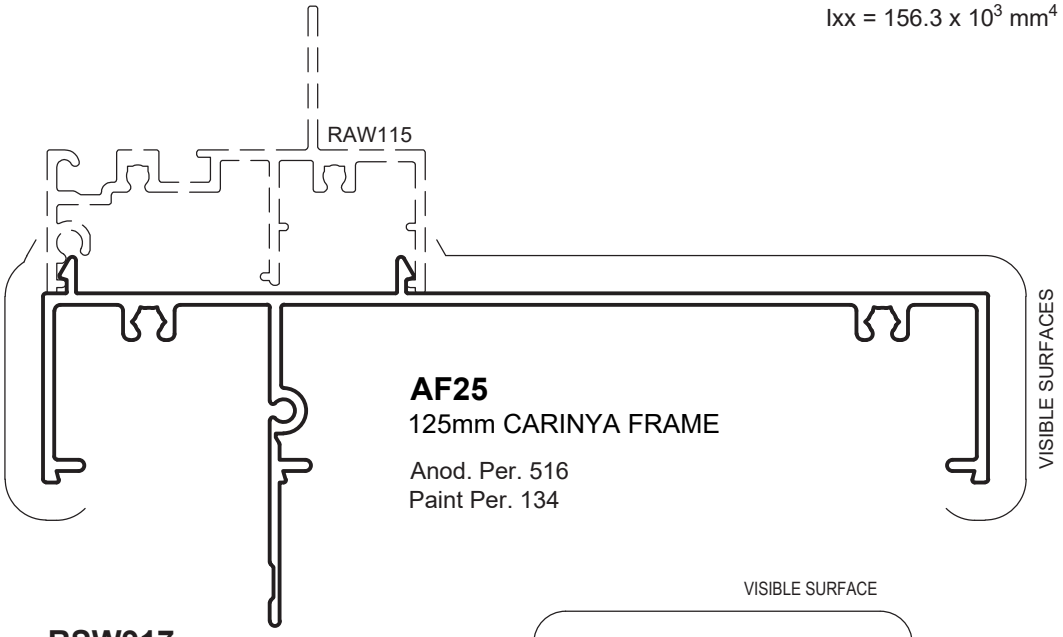


RAW47
92mm FLAT FILLER

Anod Per. 205
Paint Per. 100

RCB7
92mm COUPLER
Anod. Per. 226
Paint Per. 100

Ixx = 156.3 x 10^3 mm^4

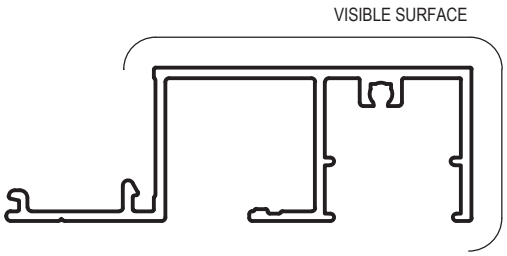


AF25
125mm CARINYA FRAME

Anod. Per. 516
Paint Per. 134

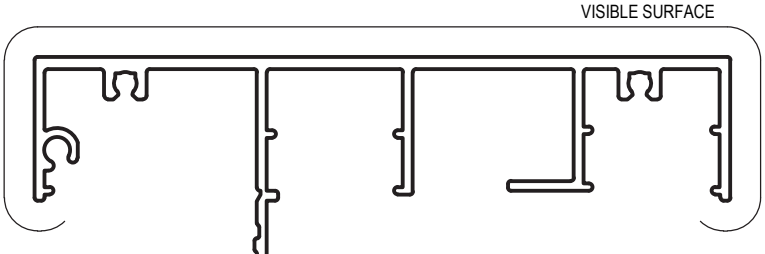
RSW917
92 x 20mm CAVITY CLOSER

Anod Per. 291
Paint Per. 100



RAW35
92mm PLAIN FRAME

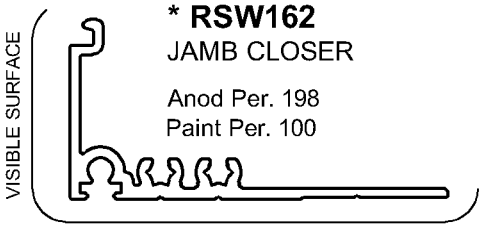
Anod Per. 470
Paint Per. 132



RAW37
92mm COUPLED FRAME

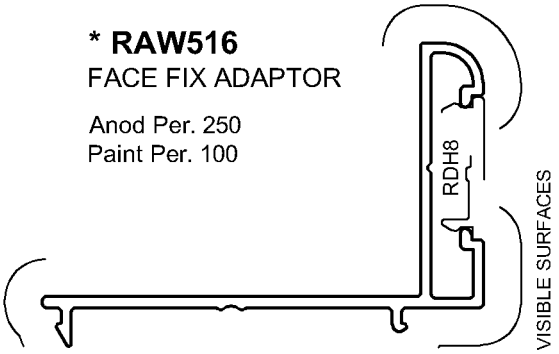
Anod Per. 310
Paint Per. 133

Extrusion Accessories



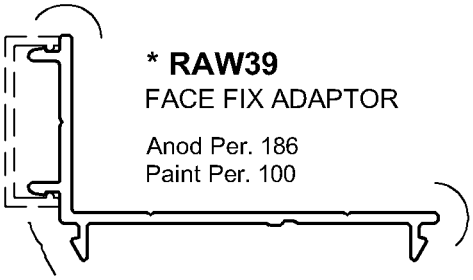
*** RSW162**
JAMB CLOSER

Anod Per. 198
Paint Per. 100



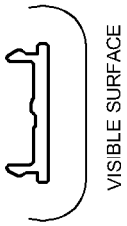
*** RAW516**
FACE FIX ADAPTOR

Anod Per. 250
Paint Per. 100



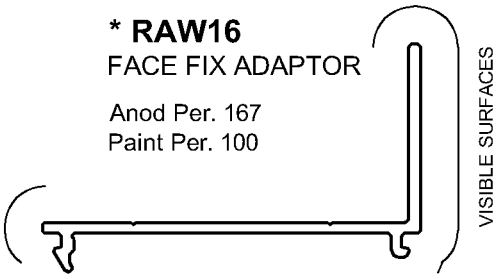
*** RAW39**
FACE FIX ADAPTOR

Anod Per. 186
Paint Per. 100



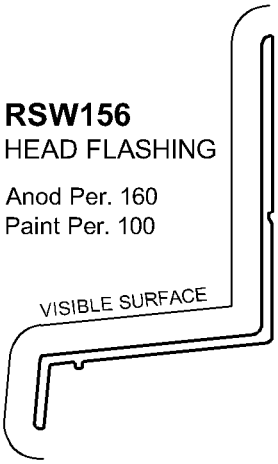
RDH8
CAPPING

Anod Per. 100
Paint Per. 100



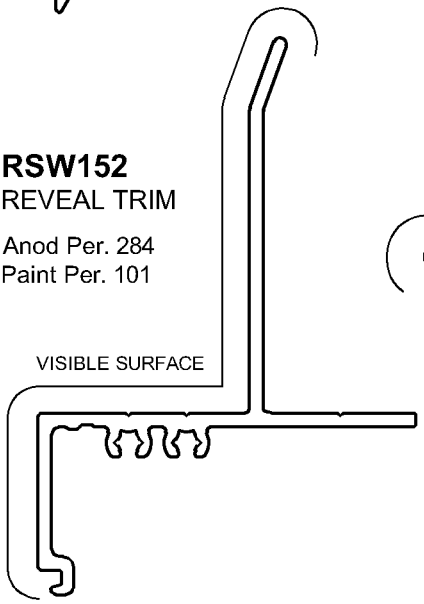
*** RAW16**
FACE FIX ADAPTOR

Anod Per. 167
Paint Per. 100



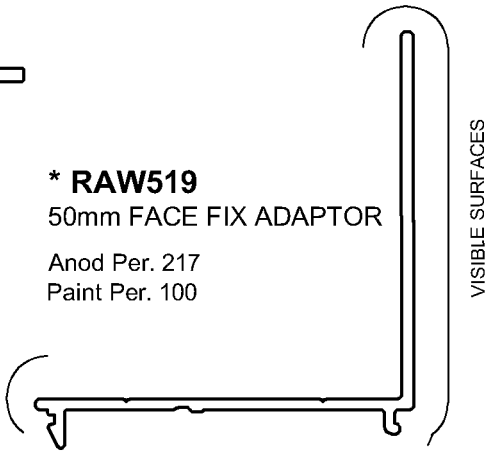
RSW156
HEAD FLASHING

Anod Per. 160
Paint Per. 100



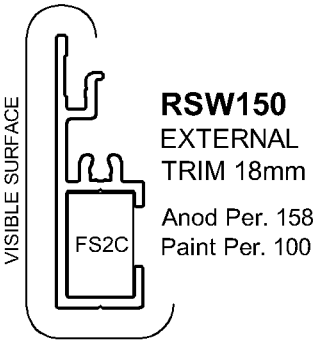
RSW152
REVEAL TRIM

Anod Per. 284
Paint Per. 101



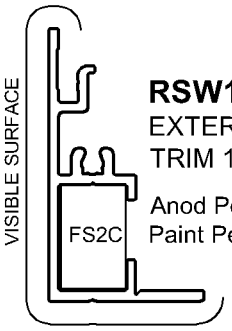
*** RAW519**
50mm FACE FIX ADAPTOR

Anod Per. 217
Paint Per. 100



RSW150
EXTERNAL
TRIM 18mm

Anod Per. 158
Paint Per. 100



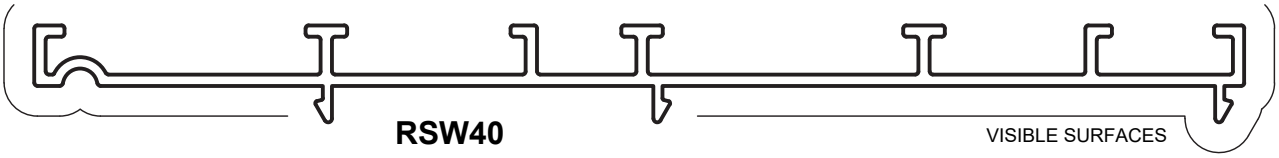
RSW151
EXTERNAL
TRIM 10mm

Anod Per. 177
Paint Per. 100

* NOTE: MITER OR STRAIGHT CUT OPTION. MUST SEAL ADAPTOR TO FRAME & COVER ANY EXPOSED HOLES. RECOMMEND FITTING RSW156 HEAD FLASHING ACROSS HEAD.

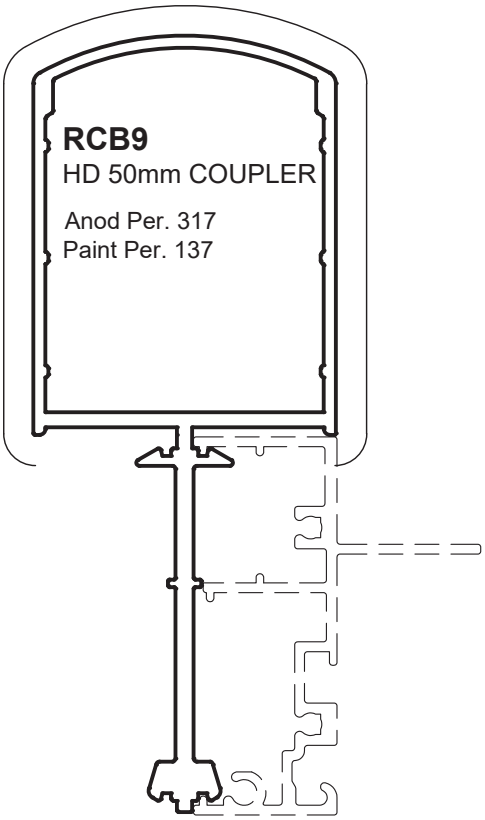
REFER TO PG 8.33 FOR ASSEMBLY DETAIL

Extrusion Accessories



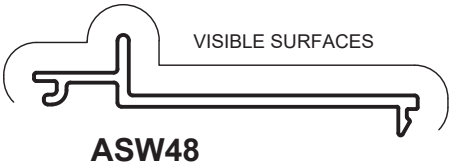
RSW40
LINTEL HEAD

Anod Per . 482
Paint Per. 179



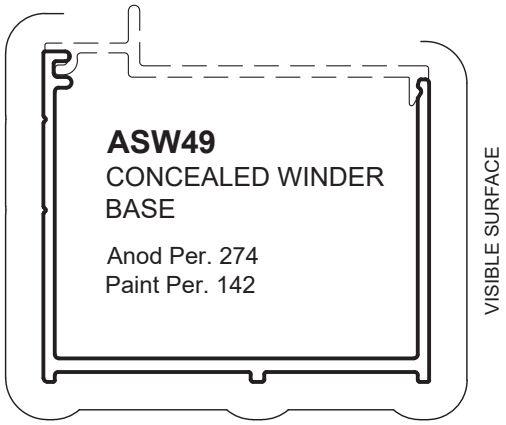
RCB9
HD 50mm COUPLER

Anod Per. 317
Paint Per. 137



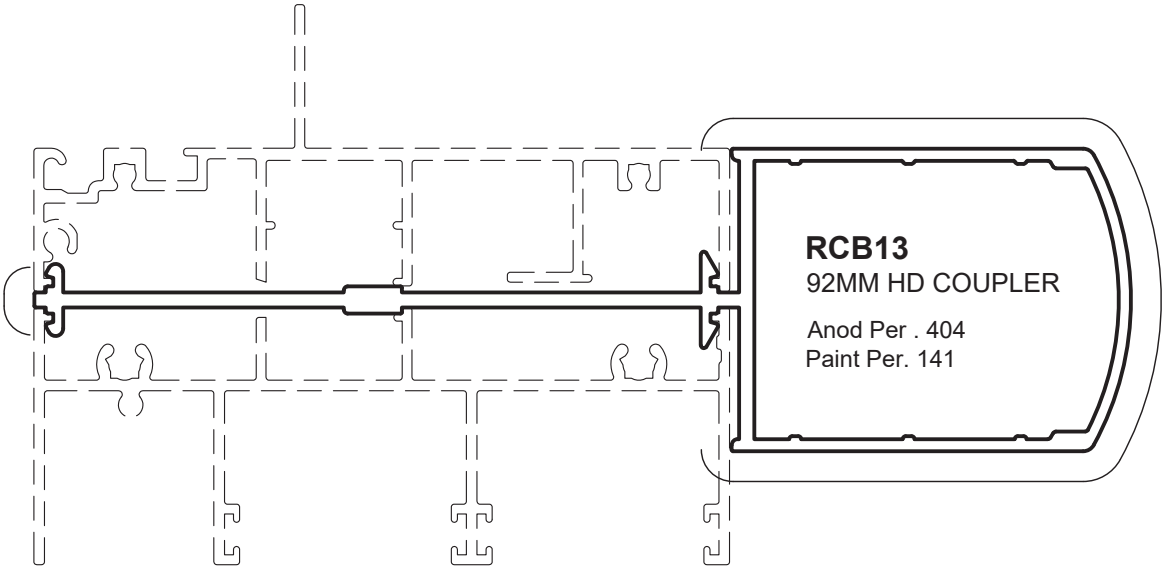
ASW48
CONCEALED WINDER COVER

Anod Per. 133
Paint Per. 100



ASW49
CONCEALED WINDER BASE

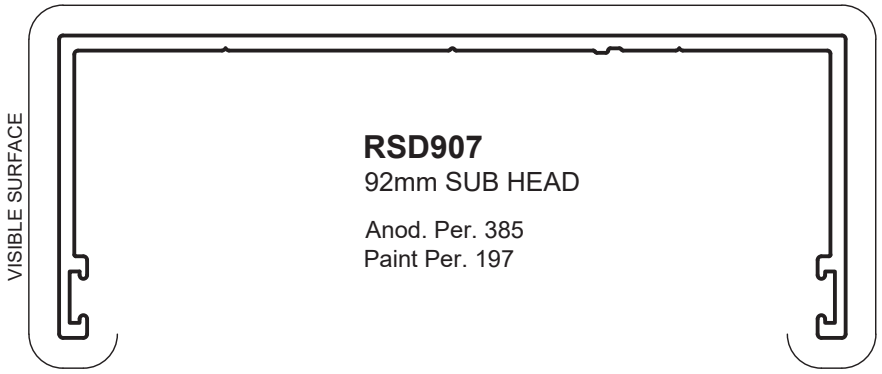
Anod Per. 274
Paint Per. 142



RCB13
92MM HD COUPLER

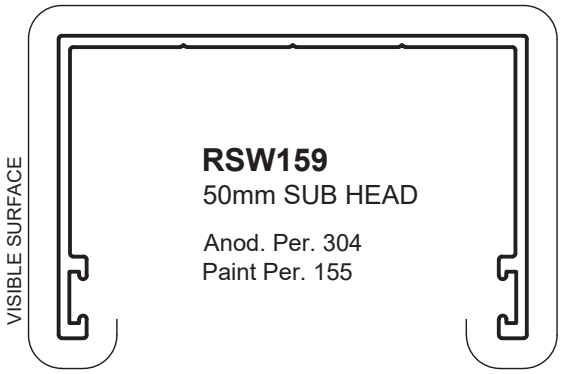
Anod Per . 404
Paint Per. 141

Extrusion Sub Framing



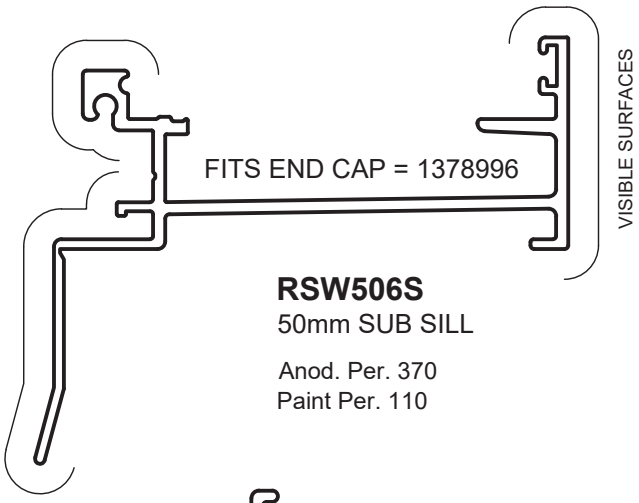
RSD907
92mm SUB HEAD

Anod. Per. 385
Paint Per. 197



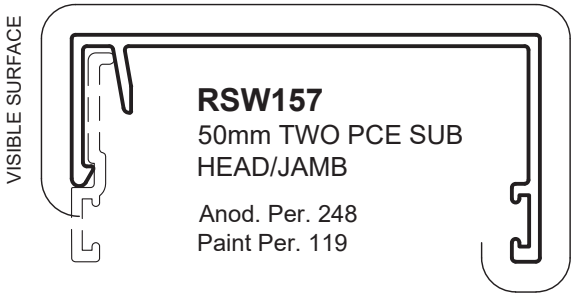
RSW159
50mm SUB HEAD

Anod. Per. 304
Paint Per. 155



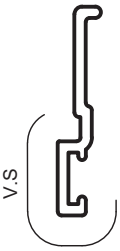
RSW506S
50mm SUB SILL

Anod. Per. 370
Paint Per. 110



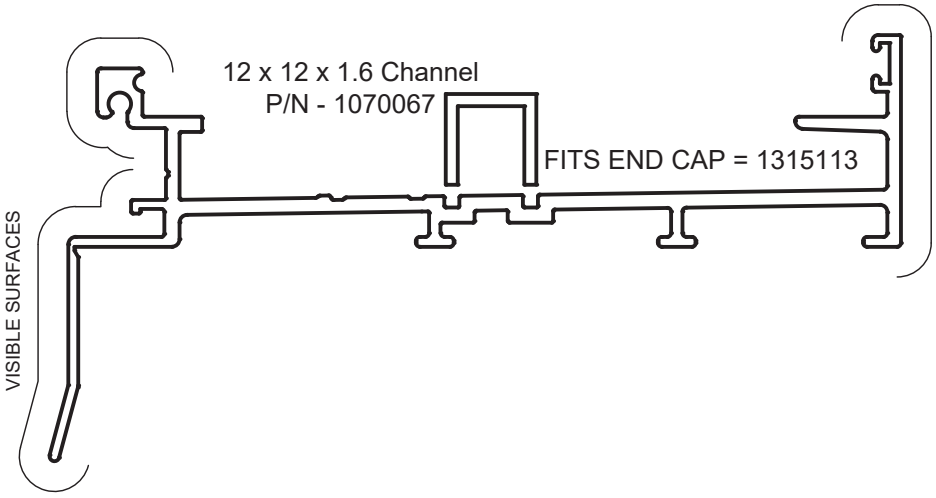
RSW157
50mm TWO PCE SUB HEAD/JAMB

Anod. Per. 248
Paint Per. 119



RSW158
50mm SUB HEAD/JAMB FASCIA

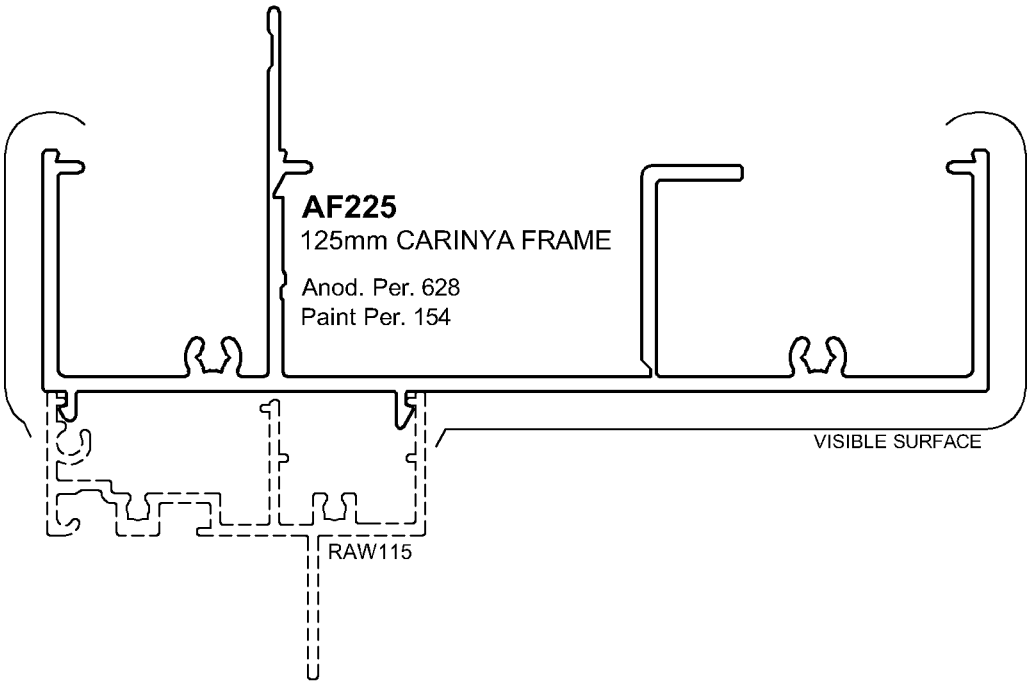
Anod. Per. 100
Paint Per. 100



RSD906S
92mm SUB SILL

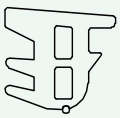
Anod. Per. 496
Paint Per. 110

Framing

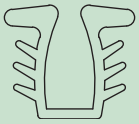
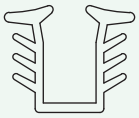
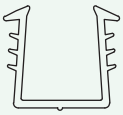
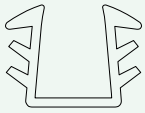
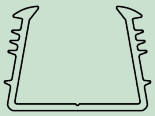
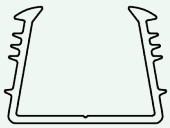

AF225
125mm CARINYA FRAME
Anod. Per. 628
Paint Per. 154
VISIBLE SURFACE
RAW115

6. Hardware & Components

Glazing Wedges

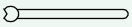
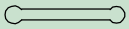
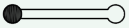
IMAGE	TO SUIT GAP	PART #	DESCRIPTION	MATERIAL
	2mm	1376012	GR2 GLAZING WEDGE (2mm GAP) x 100m ROLL	PVC
	3mm	1313055	GR43 GLAZING WEDGE (BROWN) (3mm GAP) x 200m ROLL	PVC
		1313063	GR43S GLAZING WEDGE (BROWN) (3mm GAP) S/PRENE x 200m ROLL	S/PRENE
	4mm	1313056	GR44 GLAZING WEDGE (WHITE) (4mm GAP) x 200m ROLL	PVC
		1313064	GR44S GLAZING WEDGE (WHITE) (4mm GAP) S/PRENE x 200m ROLL	S/PRENE
	5mm	1313057	GR45 GLAZING WEDGE (BLUE) (5mm GAP) x 150m ROLL	PVC
		1313065	GR45S GLAZING WEDGE (BLUE) (5mm GAP) S/PRENE x 150m ROLL	S/PRENE
	6mm	1313058	GR46 GLAZING WEDGE (YELLOW) (6mm GAP) x 150m ROLL	PVC
		1313066	GR46S GLAZING WEDGE (YELLOW) (6mm GAP) S/PRENE x 150m ROLL	S/PRENE
	7mm	1313059	GR47 GLAZING WEDGE (RED) (7mm GAP) x 150m ROLL	PVC
		1313062	GR47S GLAZING WEDGE (RED) (7mm GAP) S/PRENE x 150m ROLL	S/PRENE
	8mm	1313060	GR48 GLAZING WEDGE (ORANGE) (8mm GAP) x 150m ROLL	PVC
		1313067	GR48S GLAZING WEDGE (ORANGE) (8mm GAP) S/PRENE x 150m ROLL	S/PRENE
	9mm	1313076	GR50 GLAZING WEDGE (GREEN) (9mm GAP) x 100m ROLL	PVC

Glazing Channels

IMAGE	TO SUIT GAP	PART #	DESCRIPTION	MATERIAL
	4mm	1376028	GR59 CLAZING CHANNEL (4mm GLASS) x 100m ROLL	PVC
	5mm	1376033	GR60 GLAZING CHANNEL (5mm GLASS) x 100m ROLL	PVC
	6-6.38mm	1376044	GR61 GLAZING CHANNEL (6-6.38mm GLASS) x 100m ROLL	PVC
	8-8.38mm	1376029	GR62 GLAZING CHANNEL (8-8.38mm GLASS) x 100m ROLL	PVC
	10-10.38mm	1376035	GR63 GLAZING CHANNEL (10-10.38mm GLASS) x 100m ROLL	PVC
	12-12.5mm	1313088	GR64 GLAZING CHANNEL (12-12.5mm GLASS) x 40m ROLL	PVC
	13.52mm	1376153	GR75 DG GLAZING CHANNEL (13.52mm GLASS) x 40m ROLL	PVC
	17.5mm	1376144	GR71 DG GLAZING CHANNEL (17.5mm GLASS) x 50m ROLL	PVC
	18mm	1376094	GR52 GLAZING CHANNEL (18mm GLASS) x 50m ROLL	PVC
	18.5mm	1376141	GR69 DG GLAZING CHANNEL (18.5mm GLASS) x 50m ROLL	PVC

6. Hardware & Components

Seals

IMAGE	PART #	DESCRIPTION	MATERIAL
	1386359	CE14 CO-EXT SEAL (14.5mm HEIGHT) x 500m ROLL	PVC
	1376342	CE12 CO-EXT BAFFLE (16.5mm HEIGHT) x 250m ROLL	PVC
	1376348	CE48 CO-EXT BAFFLE (13.5mm HEIGHT) x 500m ROLL	PVC
	1376454	CE7 CO-EXT BULB SEAL (7mm DIAMETER) x 200m ROLL	PVC
	1313110	SILL FLAP x 150m	PVC
	1385513	TESA 60202 1.6 PVC FOAM 9mm x 45.7m SINGLE SIDED	PVC
	1385514	TESA 60402 12mm x 1.6mm DOUBLE SIDED PVC FOAM TAPE x 61m	

Fasteners

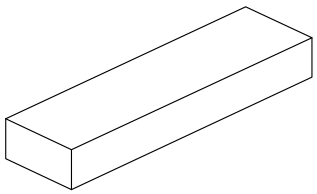
SCREWS			
PART #	HEAD	DESCRIPTION	LOCATION
1382563	SQUARE	8g x 1 1/4 (32mm) 304SS SQUARE CSK W/WIND S/TAP x 500	Chain Winder onto Sill / Transom
1382048	PHILLIPS	8g x 1 1/4 (32mm) SS PHILLIPS PAN S/TAP x 500	
1382633	SQUARE	6g x 1 (25mm) 304SS SQ #1 PAN S/TAP SCREW x 1000	Frame Fixings / Sash Corners / RAWA15
1382036	PHILLIPS	6g x 1 (25mm) SS PHILLIPS PAN SELF TAPPING x 1000	
1382022	PHILLIPS	8g x 1/2 (13mm) SS PHILLIPS U/CUT SELF TAPPING x 1000	Chain Winder onto Sash / Cam Handles
1382629	SQUARE	8g x 1/2 (13mm) 304SS SQ #2 U/CUT CSK S/TAP SCREW x 1000	
1382026	PHILLIPS	10g x 1/2 (13mm) SS PHILLIPS U/CUT SELF TAPPING x 1000	Restrictor Stays

DRIVER BITS		
PART #	HEAD	DESCRIPTION
1382578	SQUARE	DRIVER BIT SQUARE #2 50mm x 1
1391417	PHILLIPS	DRIVER BIT PHILLIPS (B) #2 x 50mm

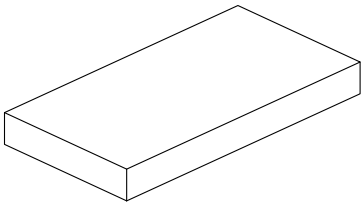
Frame Joint Gaskets

PART #	DESCRIPTION	FINISH	LOCATION
1315061	RAWA11 50mm FRAME JOINT GASKET x ROLL (780 PAIRS / ROLL)	BLACK (034) GREY (036)	RAWA11
1315060	RAWA10 92mm FRAME JOINT GASKET x ROLL (445 PAIRS / ROLL)	BLACK (034) GREY (036)	RAWA10
1315055	RAWA5 50mm MULL/TRAN JOINT GASKET x ROLL (780 PAIRS / ROLL)	BLACK (034) GREY (036)	RAWA5
1315056	RAWA6 92mm MULL/TRAN JOINT GASKET x ROLL (445 PAIRS / ROLL)	BLACK (034) GREY (036)	RAWA6
1315057	RAWA8 50mm TRANSOM JOINT GASKET x ROLL (490 PAIRS / ROLL)	BLACK (034) GREY (036)	RAWA8
1315058	RAWA7 50mm SILL JOINT GASKET x ROLL (780 PAIRS / ROLL)	BLACK (034) GREY (036)	RAWA7

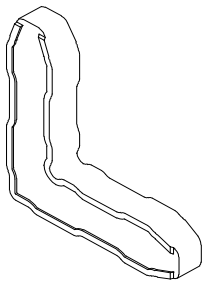
Accessories



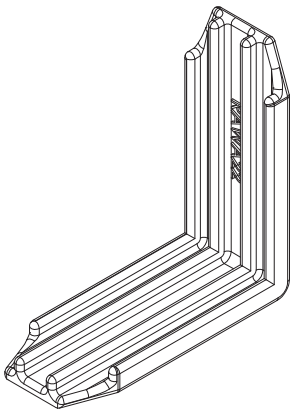
SETTING BLOCK 10 x 6 x 75mm	
PART	1376775
FINISH	BLACK PVC
QTY	BAG OF 50



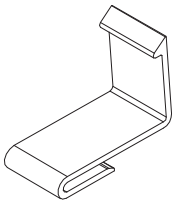
SETTING BLOCK 5 x 21 x 100mm	
PART	1376774
FINISH	BLACK PVC
QTY	BOX OF 100



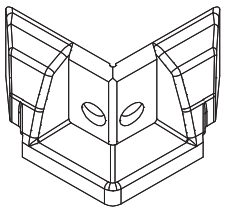
FS2C CORNER STAKE	
PART	1324001
FINISH	BLACK (034)
QTY	EACH



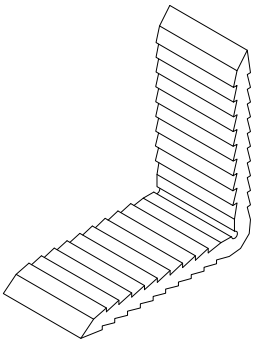
RAWA22 NYLON CORNER STAKE	
PART	1315070
FINISH	BLACK (034)
QTY	EACH



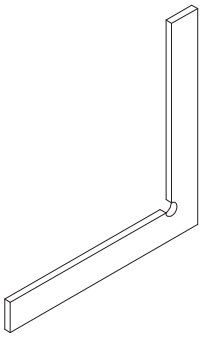
RAWA14 FLYSCREEN RETAINER CLIP	
PART	1315063
FINISH	TRANSPARENT (050)
QTY	EACH



RAWA15 CORNER PROTECTOR GUIDE	
PART	1315065
FINISH	BLACK (034)
QTY	EACH

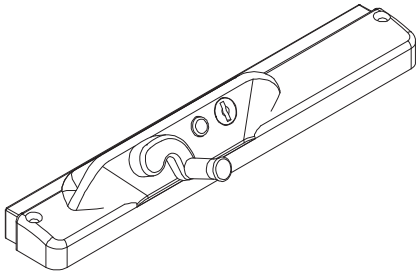


RAWA2 ALUMINIUM CORNER STAKE	
PART	1315052
FINISH	BLACK (034) MILL (001)
QTY	EACH

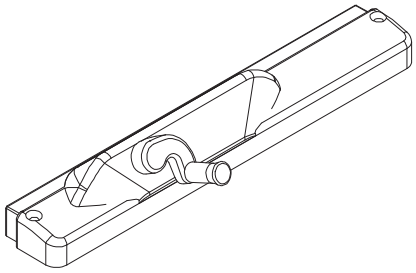


RSDA16 100 x 14mm SPLICE PLATE	
PART	1315038
FINISH	NOT SPECIFIED (034)
QTY	EACH

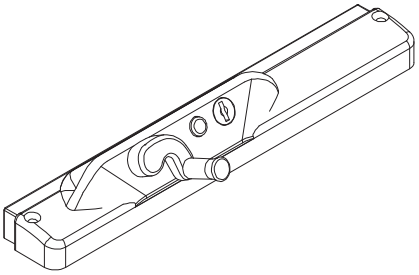
Chainwinders



ALSPEC CHAINWINDER S/S LOCKING 300mm LEFT HAND KEY 32304		
PART / FINISH	1338065	BLACK (034)
	1338066	WHITE (0I5)
	1338067	SILVER PAINT (031)
QTY	EACH	

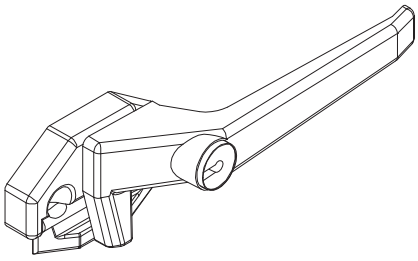


ALSPEC CHAINWINDER NON-LOCKING 300mm LEFT HAND	
PART	1338062
FINISH	PEARL WHITE GLOSS (010)
	BROWN SATIN (011)
	PRIMROSE GLOSS (012)
	POTTERY SATIN (014)
	SURFMIST MATT (026)
	WHITE BIRCH GLOSS (027)
	SILVER PAINT (031)
	BLACK (034)
	PAPERBARK MATT (058)
	ULTRA SILVER GLOSS (091)
	DUNE SATIN D1000 (0K0)
	JASPER SATIN (0M7)
	DULUX CITIPEARL (0N4)
QTY	EACH

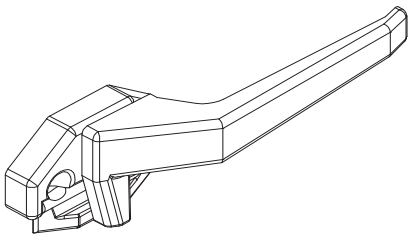


ALSPEC CHAINWINDER LOCKING 300mm LEFT HAND	
PART	1338061
FINISH	PEARL WHITE GLOSS (010)
	BROWN SATIN (011)
	PRIMROSE GLOSS (012)
	POTTERY SATIN (014)
	SURFMIST MATT (026)
	WHITE BIRCH GLOSS (027)
	SILVER PAINT (031)
	BLACK (034)
	PAPERBARK MATT (058)
	ULTRA SILVER GLOSS (091)
	SATIN CHROME (094)
	DUNE SATIN D1000 (0K0)
	JASPER SATIN (0M7)
	DULUX CITIPEARL (0N4)
QTY	EACH

Cam Handles

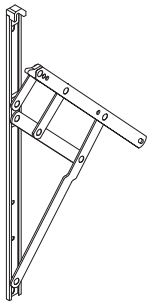


ASCOT CAM HANDLE HI-PROFILE SELF LATCH - LOCKABLE		
PART	1377876 (RH)	1377875 (LH)
FINISH	BLACK (034)	
QTY	EACH	

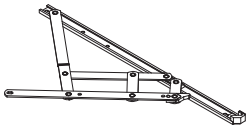


ASCOT CAM HANDLE HI-PROFILE SELF LATCH		
PART	1377851 (RH)	1377850 (LH)
FINISH	BLACK (034)	
QTY	EACH	

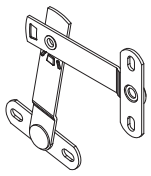
Awning & Casement Stays



BRISTOL STAINLESS STEEL AWNING STAYS					
CODE	**DESCRIPTION**	**SASH WEIGHT**	**SASH HEIGHT**	**OPENING ANGLE**	**QTY**
1377930	BRISTOL BP8TH SS STAY 13 X 203.5mm	12kg	350mm	70°	PAIR
1377931	BRISTOL BP10TH SS STAY 13 X 254mm	16kg	400mm	88°	PAIR
1377932	BRISTOL BP12TH SS STAY 13 X 305mm	20kg	550mm	87°	PAIR
1377933	BRISTOL BP16TH SS STAY 13 X 402.5mm	24kg	750mm	87°	PAIR
1377934	BRISTOL BP20TH SS STAY 13 X 502.5mm	28kg	1000mm	40°	PAIR
1377937	BRISTOL BP24TH SS STAY 13 X 602mm	35kg	1100mm	40°	PAIR

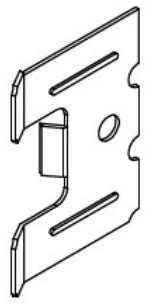


BRISTOL STAINLESS STEEL CASEMENT STAYS					
CODE	**DESCRIPTION**	**SASH WEIGHT**	**SASH HEIGHT**	**OPENING ANGLE**	**QTY**
1377935	BRISTOL BP12SH SS STAY 14 X 305mm	24kg	650mm	87°	PAIR
1377936	BRISTOL BP16SH SS STAY 14 X 414mm	30kg	800mm	87°	PAIR

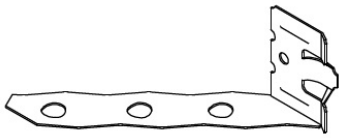


RESTRICTOR STAYS		
CODE	**DESCRIPTION**	**QTY**
1377928	BRISTOL 13mm BPRESTLD RESTRICTOR STAY	PAIR
1377975	BRISTOL 16mm BPRESTHD RESTRICTOR STAY	PAIR
1377976	BRISTOL 16mm BPRESTKRHD RESTRICTOR STAY & KEY	PAIR

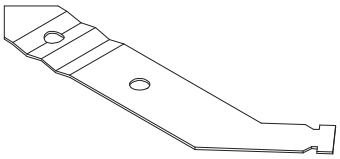
Fixing / Brick Lugs



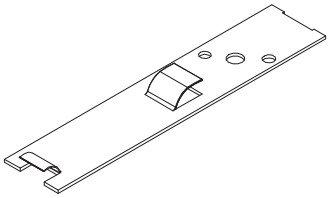
FIXING LUG (FIN EXTENSION 10mm)	
PART	1315104
FINISH	NOT SPECIFIED (099)
QTY	EACH



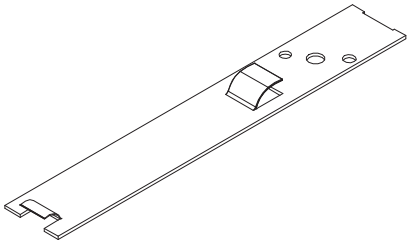
BRICK LUG (NAIL FIN TYPE) D21	
PART	1315101
FINISH	NOT SPECIFIED (099)
QTY	EACH



BRICK LUG (TWIST IN TYPE) M185-6	
PART	1315100
FINISH	NOT SPECIFIED (099)
QTY	EACH



FIXING LUG 50mm FRAME AP048	
PART	1315102
FINISH	NOT SPECIFIED (099)
QTY	EACH



FIXING LUG 92mm FRAME AP090	
PART	1315103
FINISH	NOT SPECIFIED (099)
QTY	EACH

6. Hardware & Components

Silicone

100% NEUTRAL CURE SILICONE

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

100% MATTE NEUTRAL CURE SILIICONE

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

41 CLADDING SILICONE

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

WET AREA SILICONE

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

HYBRID PU ADHESIVE SEALANT

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

20 ACETIC CURE SILICONE

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

D60 SILICONE

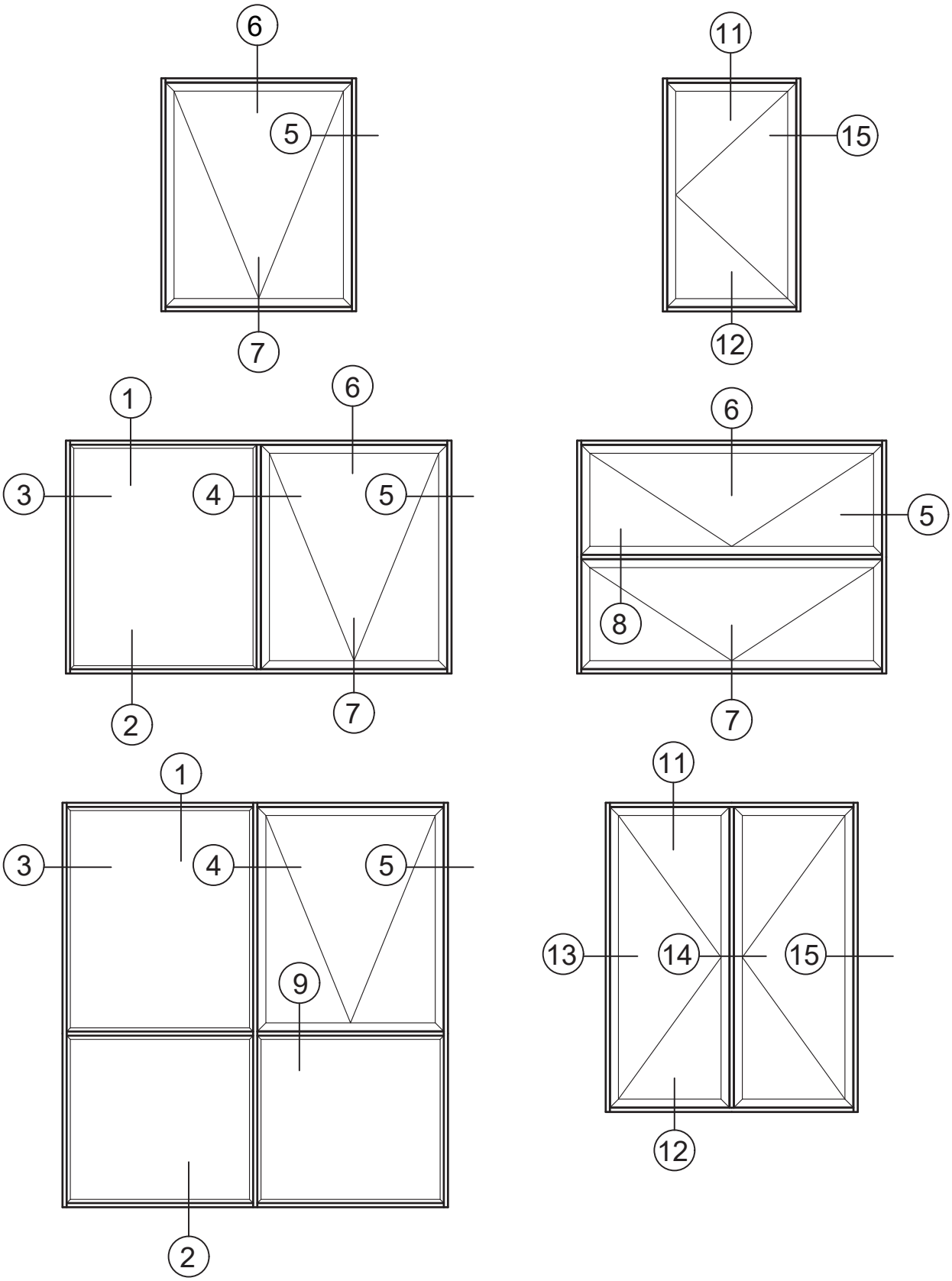
- Premium 100% silicone
- UV Stable
- 2-5 minute skin time
- Flexible + 25%
- No slump

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

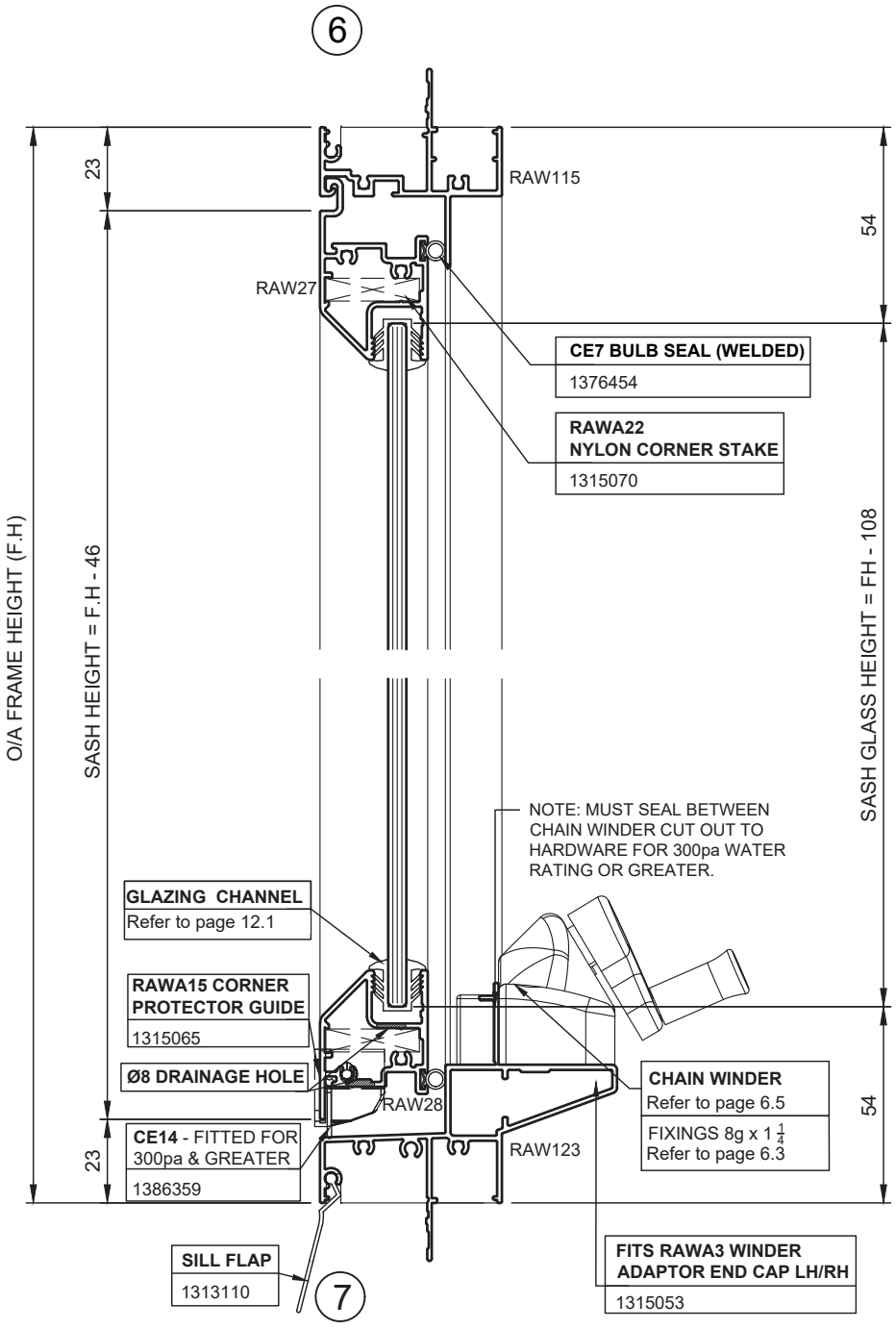
Silicone Product Codes

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

7. Typical Elevation

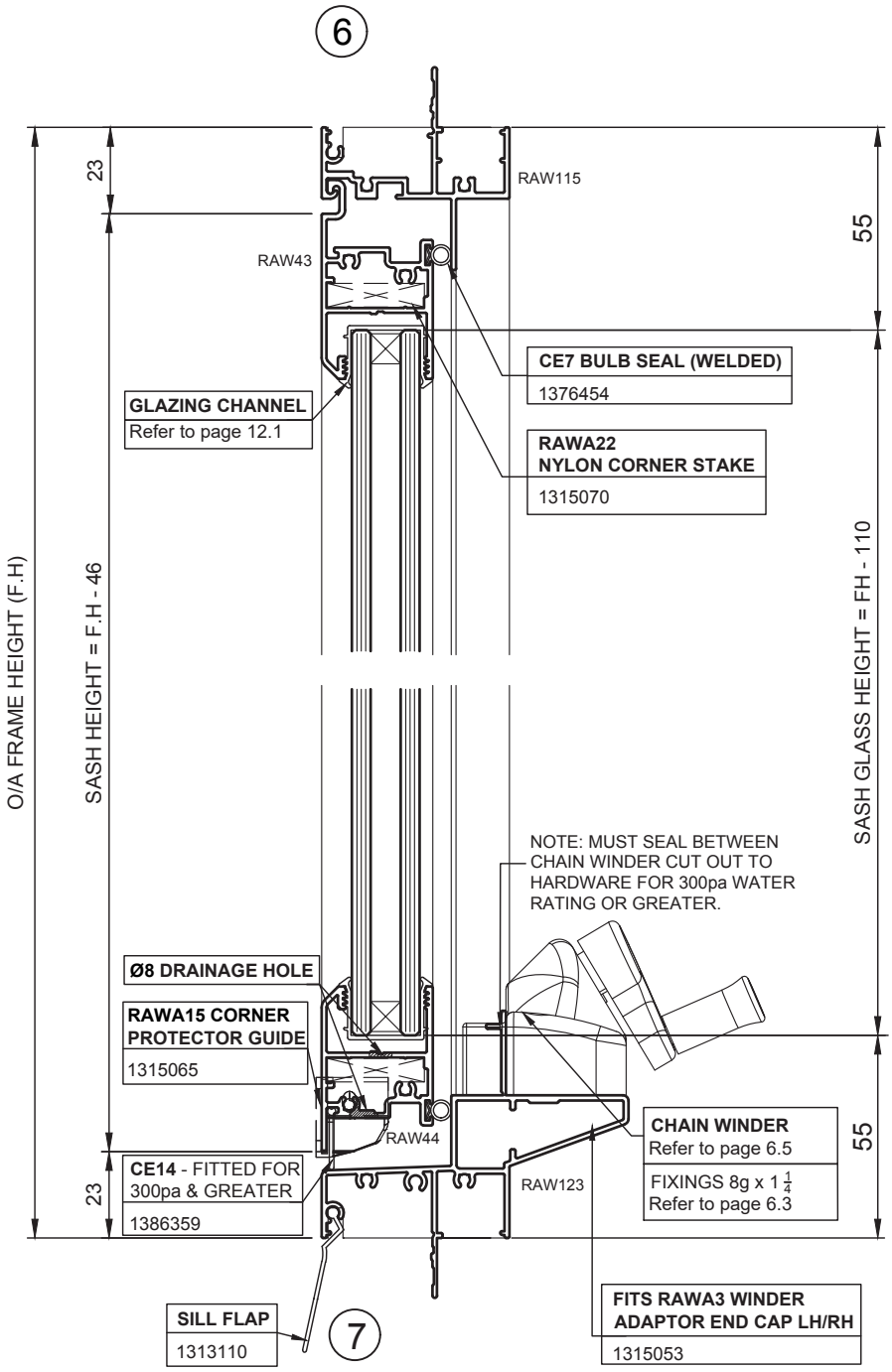


Vertical Detail - 50mm Frame Single Glazed Awning



NOTE: CE14 MUST HAVE SLOTS AT BOTTOM TO DRAIN. REFER TO PAGE 8.18 FOR REFERENCE.

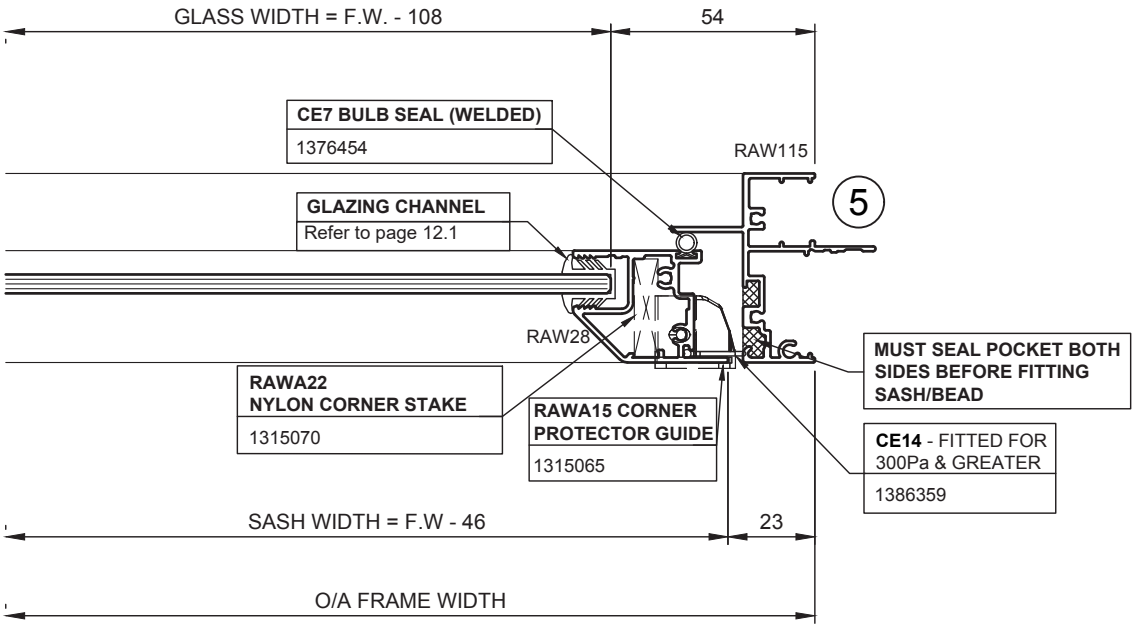
Vertical Detail - 50mm Frame Double Glazed Awning



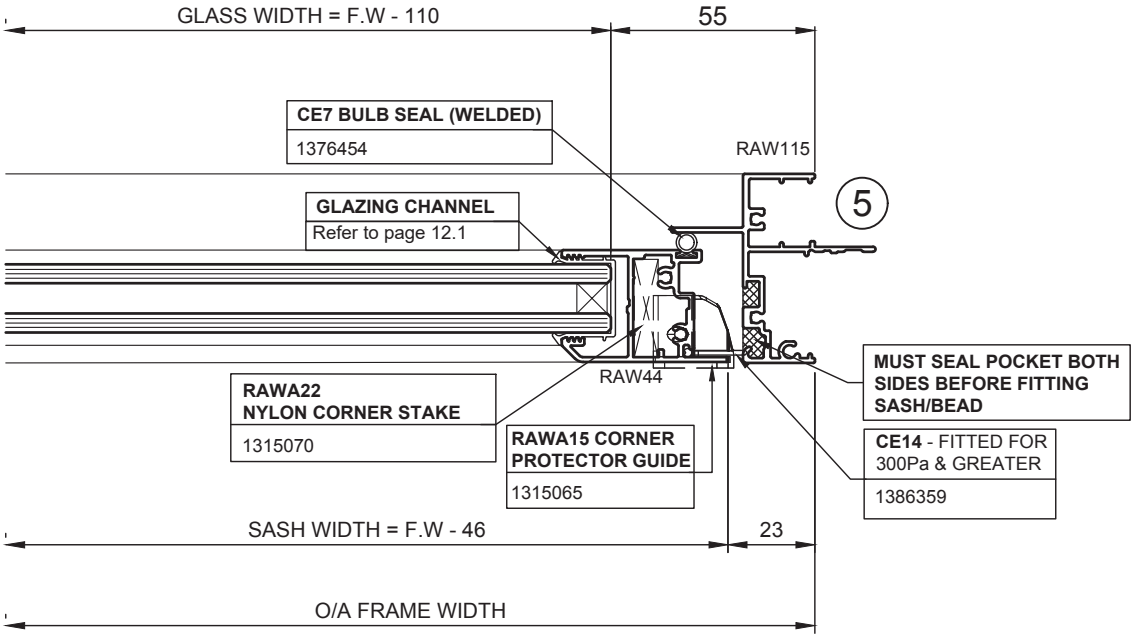
NOTE: CE14 MUST HAVE SLOTS AT BOTTOM TO DRAIN. REFER TO PAGE 8.18 FOR REFERENCE.

Horizontal Detail - 50mm Frame Awning Sash

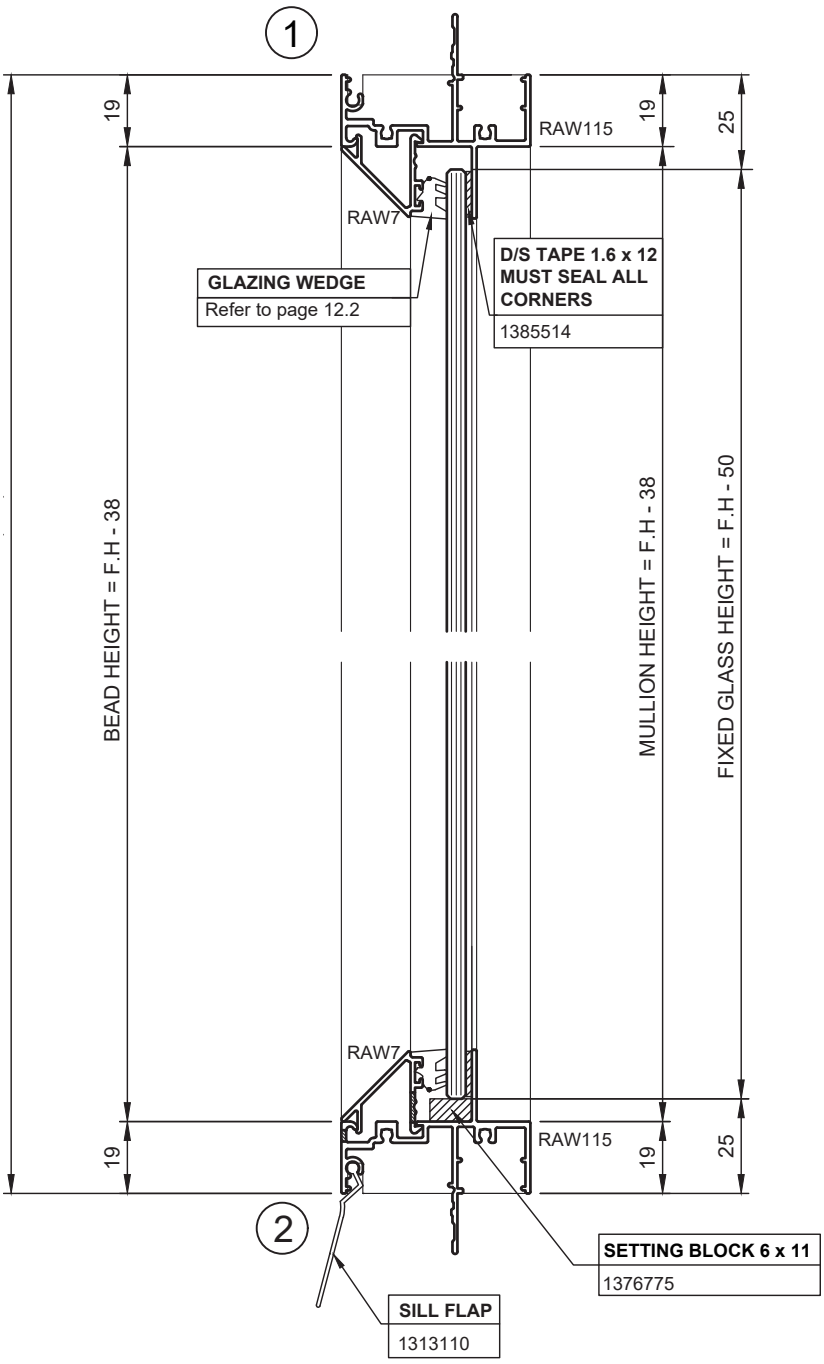
Single Glazed



Double Glazed

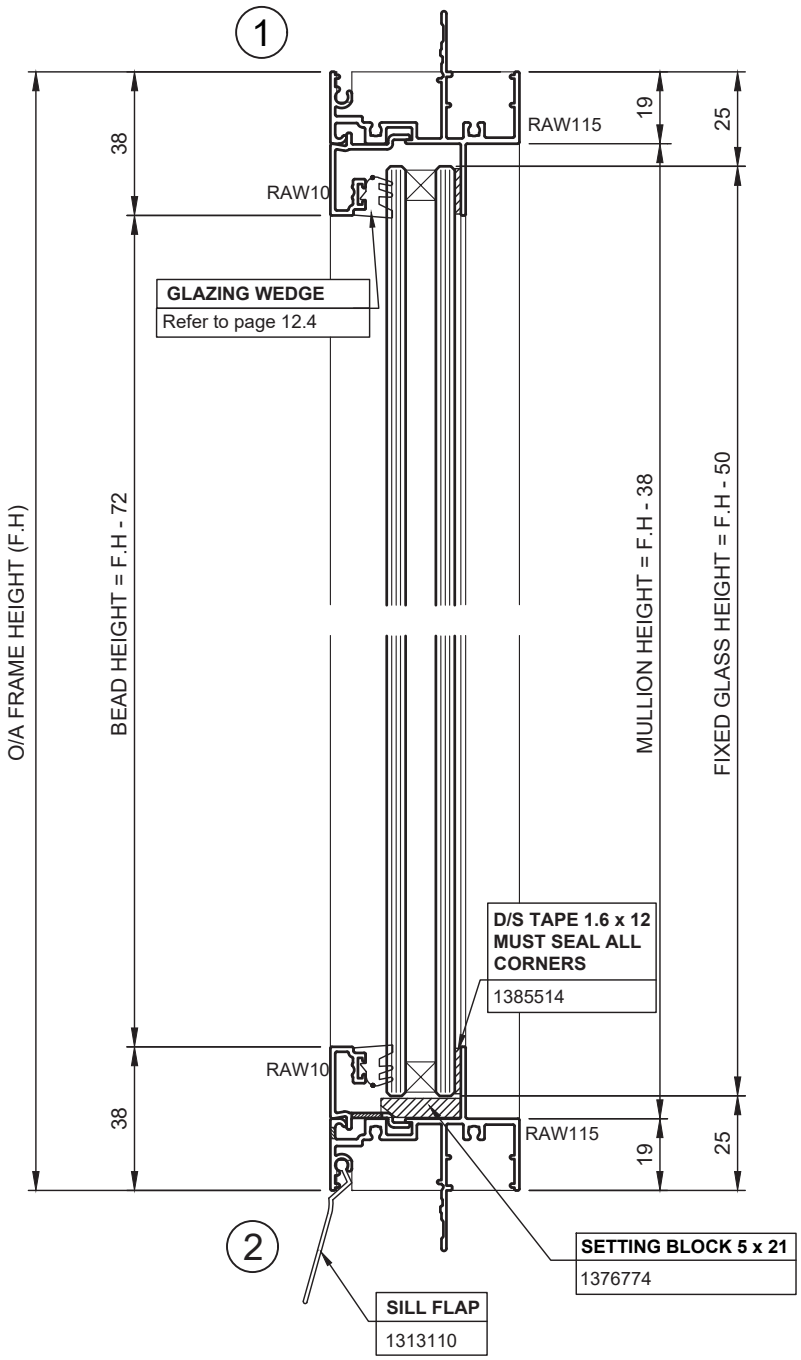


Vertical Detail - 50mm Frame Single Glazed Awning Fixed Lite



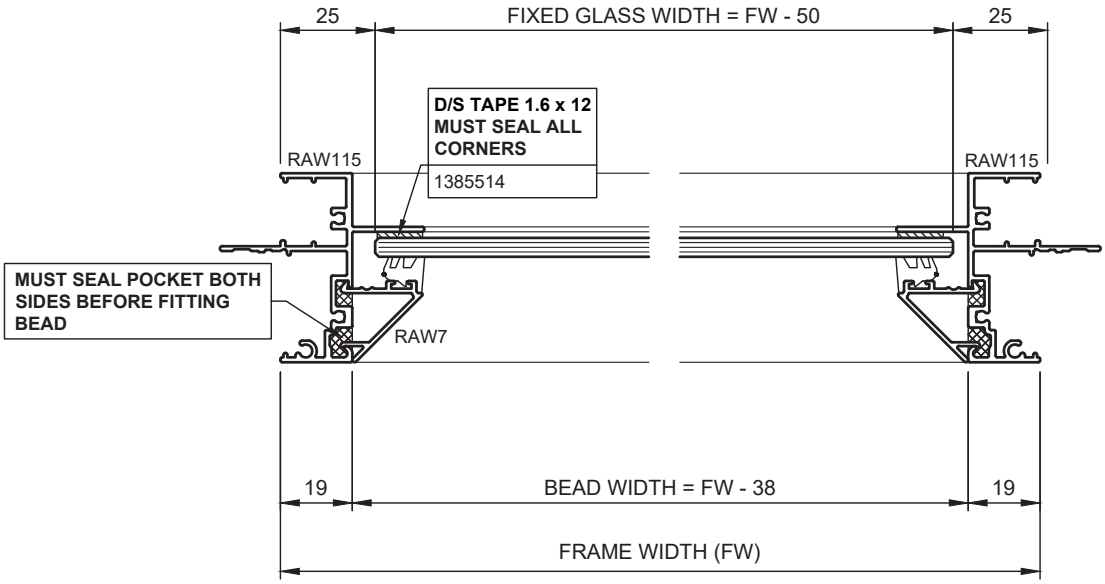
8. Typical Details

Vertical Detail - 50mm Frame Double Glazed Fixed Lite

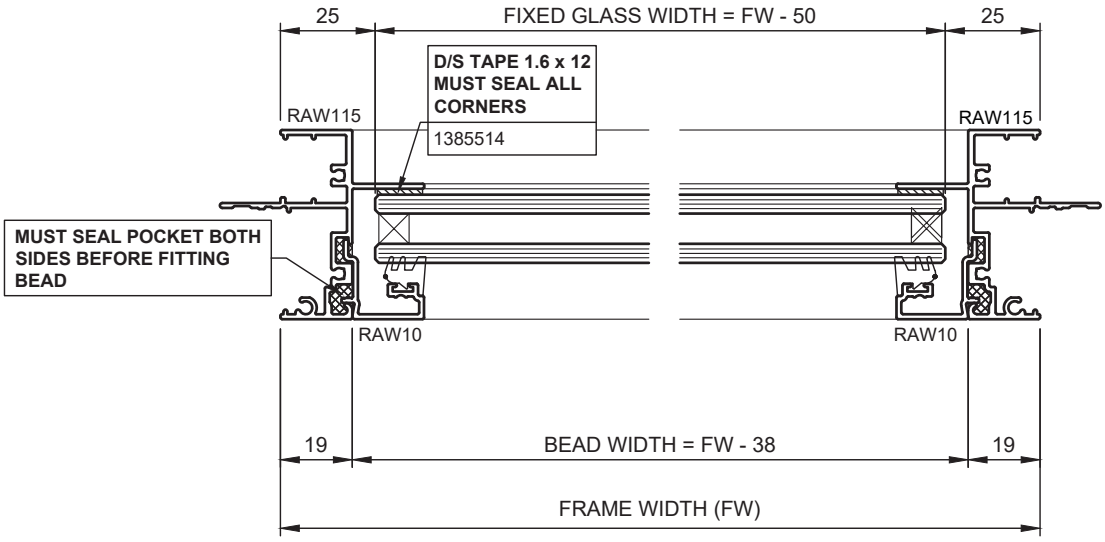


Horizontal Detail - 50mm Frame Fixed Lite

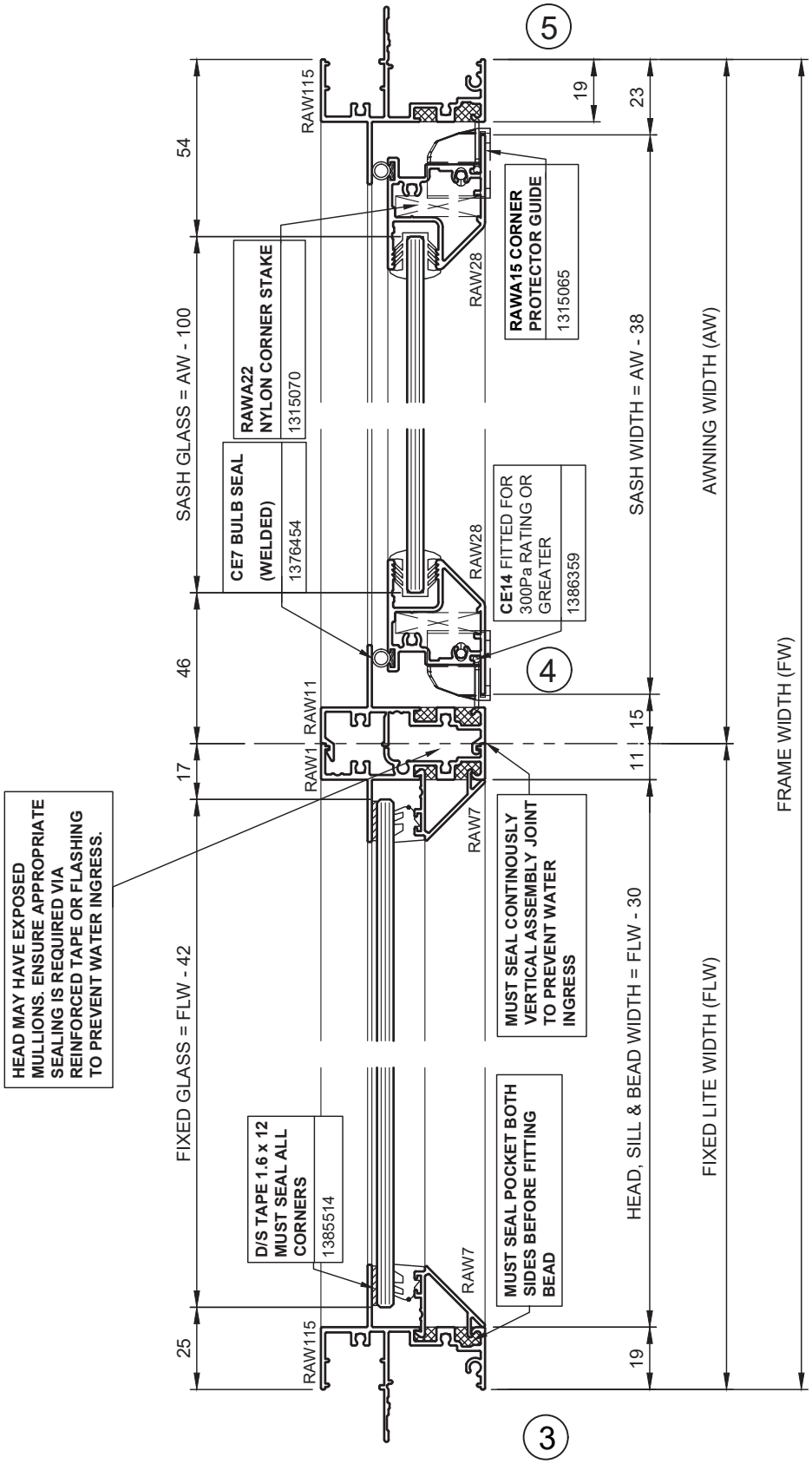
Single Glazed



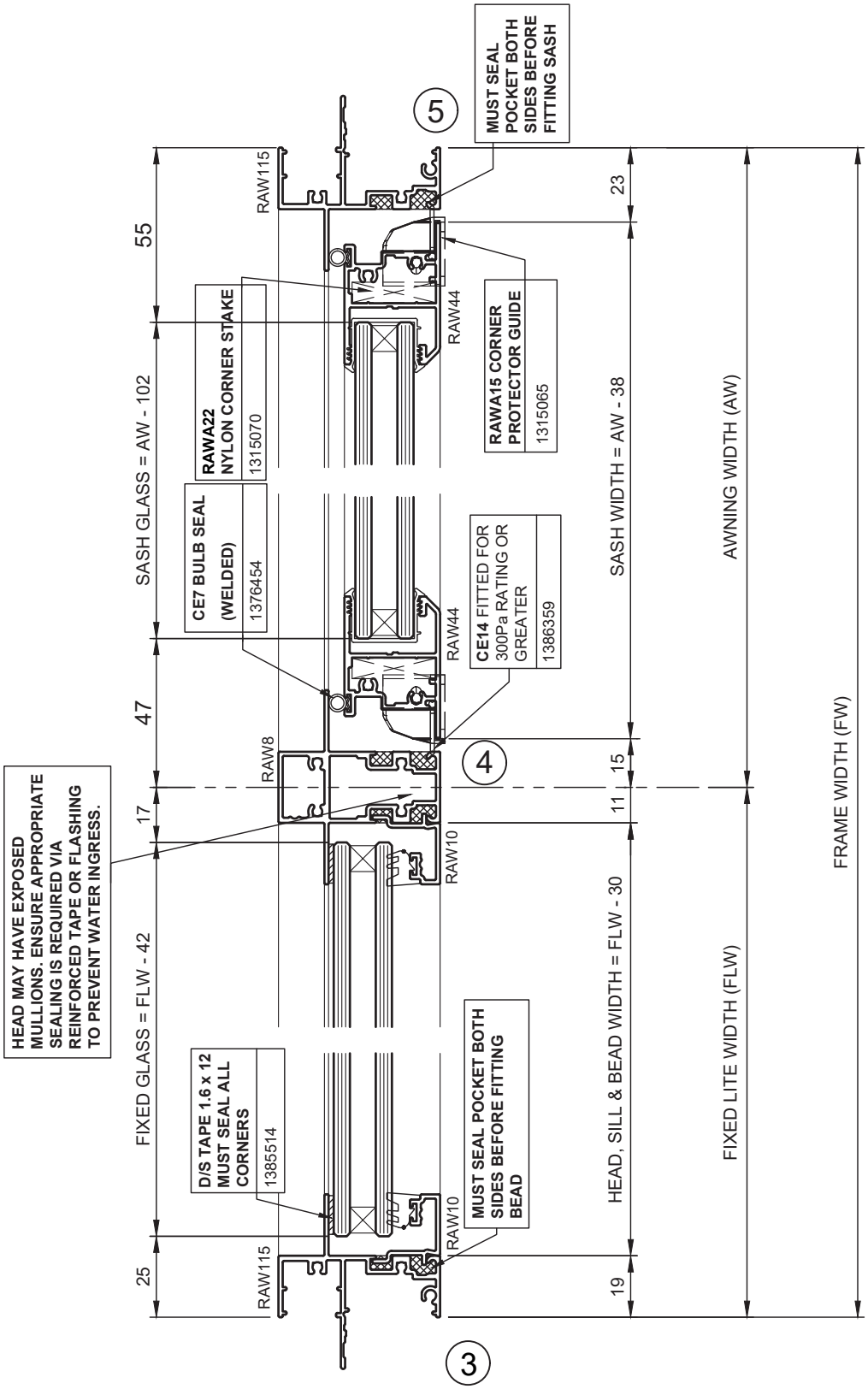
Double Glazed



Horizontal Detail - 50mm Frame Awning & Side Light Couple

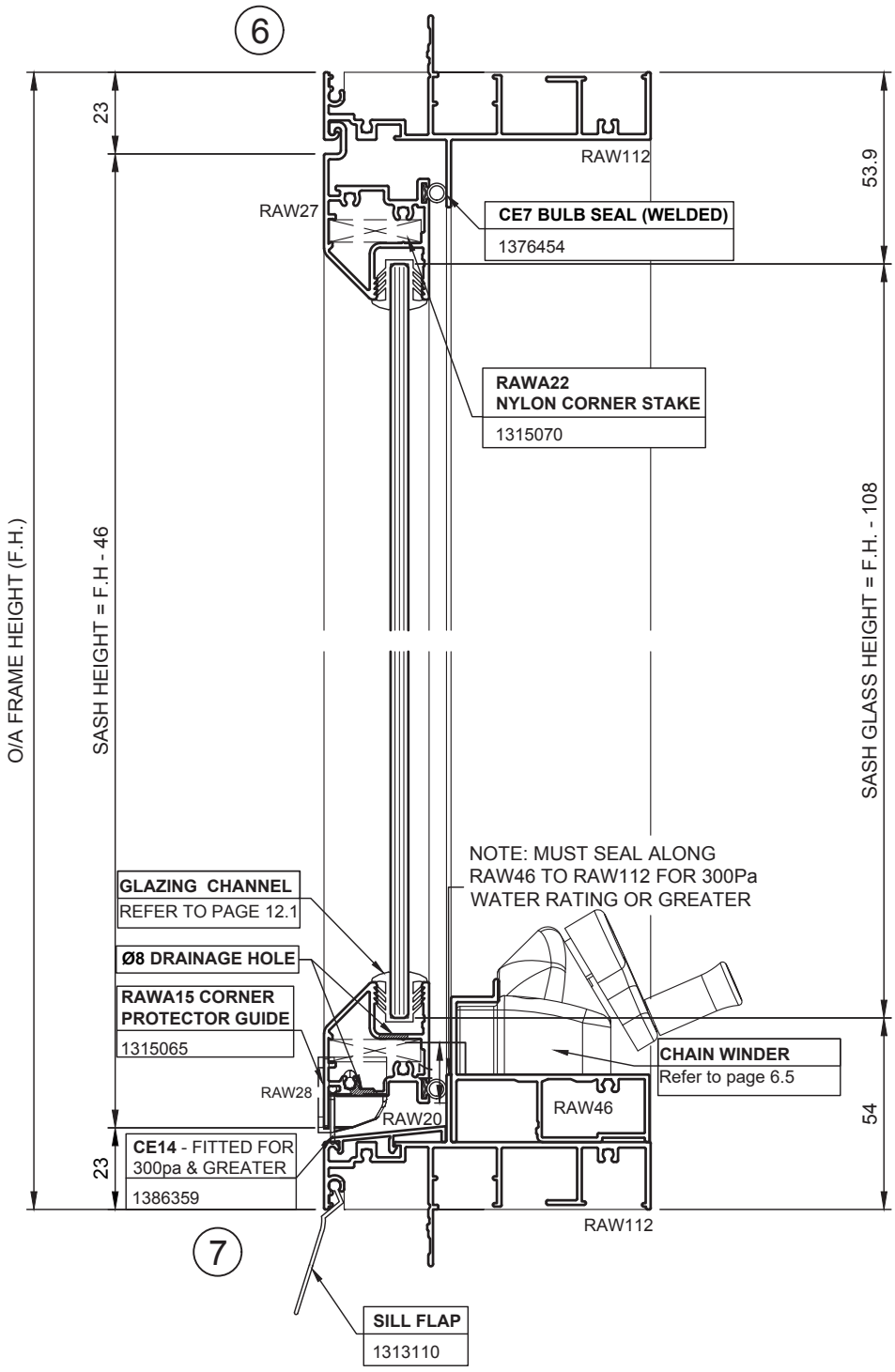


Horizontal Detail - 50mm Frame Double Glazed (Run Through Head)



8. Typical Details

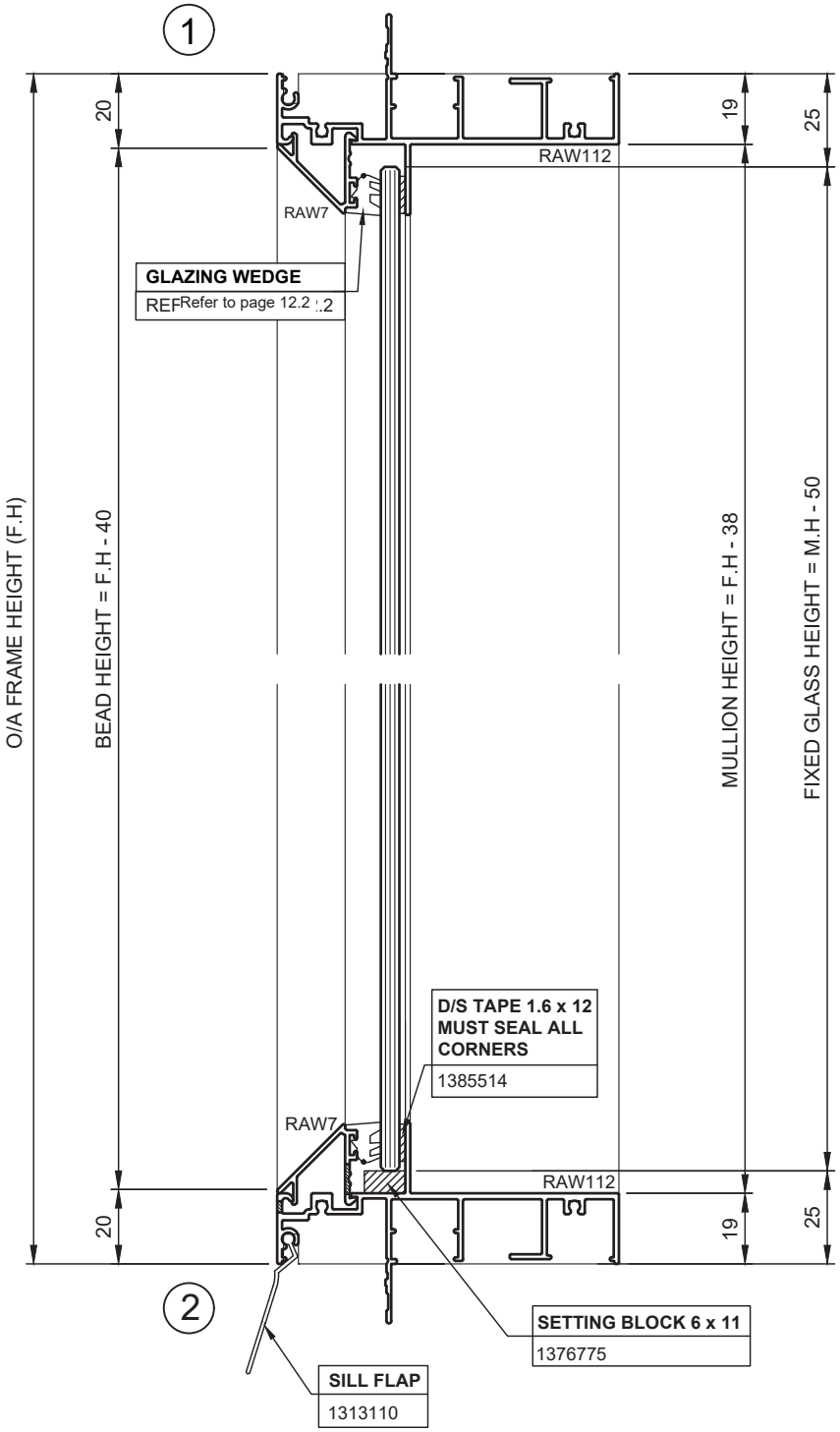
Verical Detail - 92mm Frame Single Glazed Awning



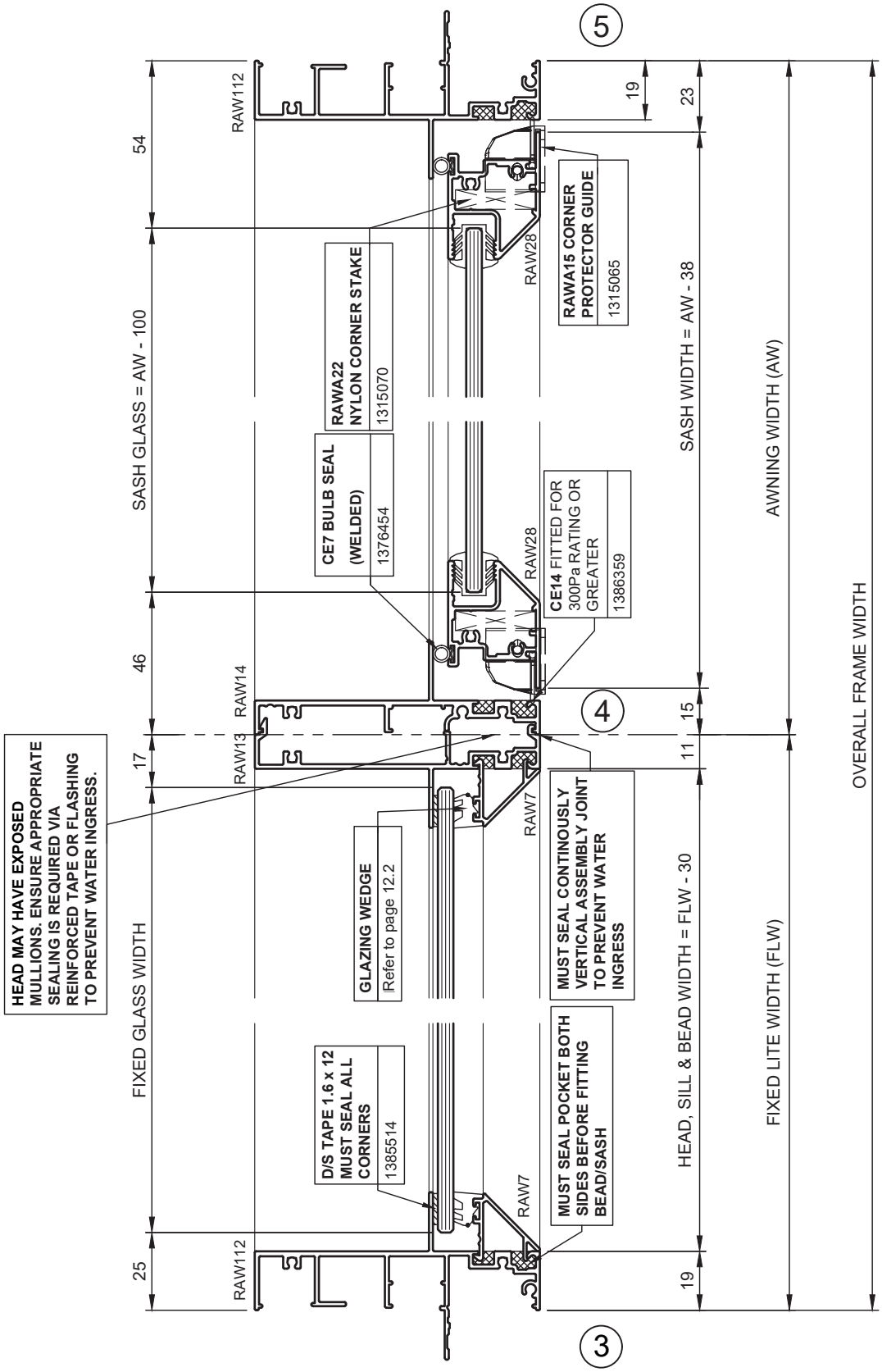
NOTE: CE14 MUST HAVE SLOTS AT BOTTOM TO DRAIN. REFER TO PAGE 8.18 FOR REFERENCE.

8. Typical Details

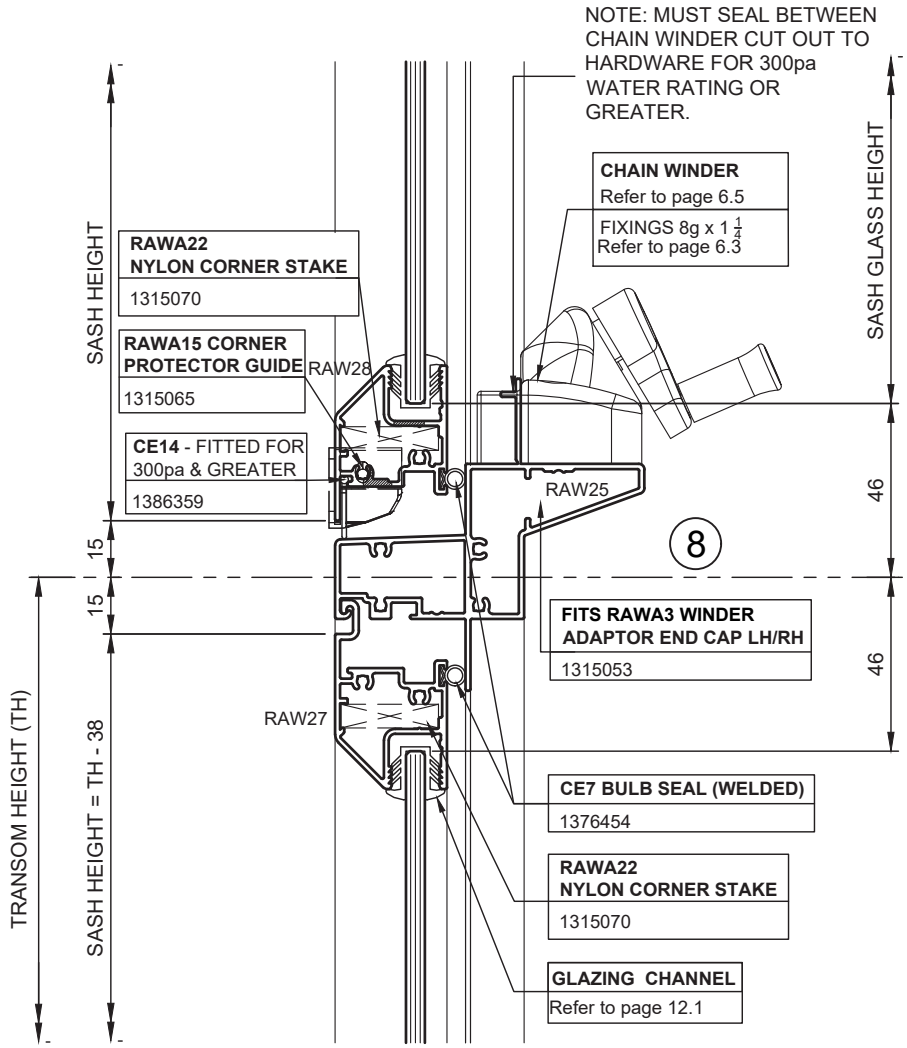
Verical Detail - 92mm Frame Single Glazed Fixed Lite



Verical Detail - 92mm Frame Awning & Side Lite Couple

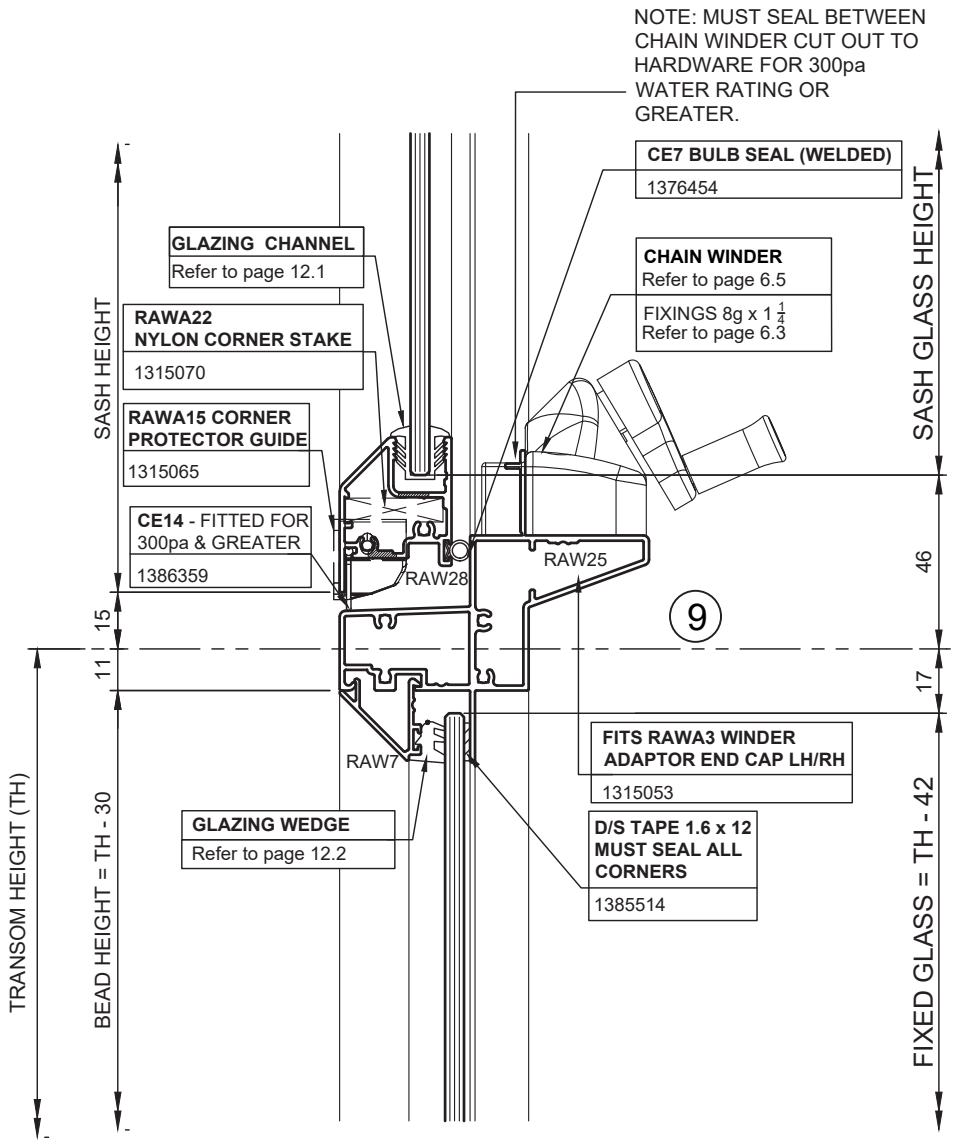


Vertical Detail - 50mm Frame Transom - Awning / Awning



NOTE: CE14 MUST HAVE SLOTS AT BOTTOM TO DRAIN. REFER TO PAGE 8.18 FOR REFERENCE.

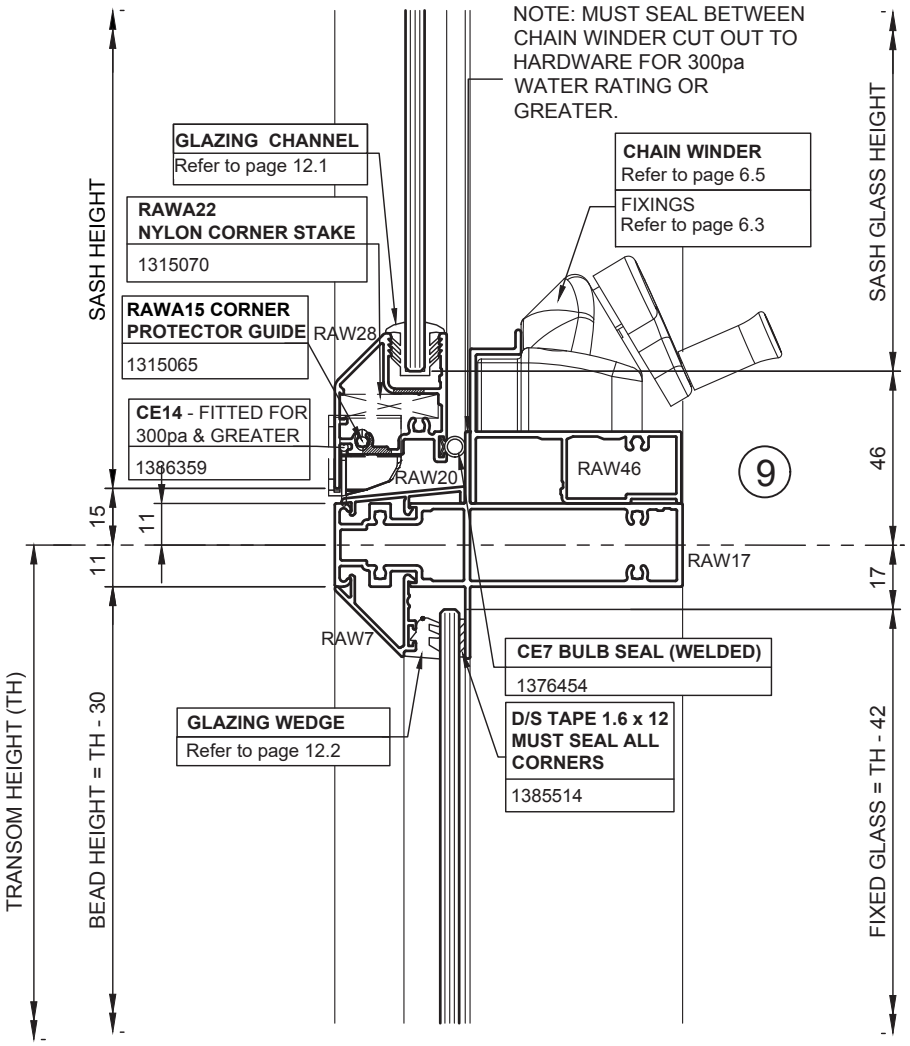
Vertical Detail - 50mm Frame Transom - Awning / Fixed Lite



NOTE: CE14 MUST HAVE SLOTS AT BOTTOM TO DRAIN. REFER TO PAGE 8.18 FOR REFERENCE.

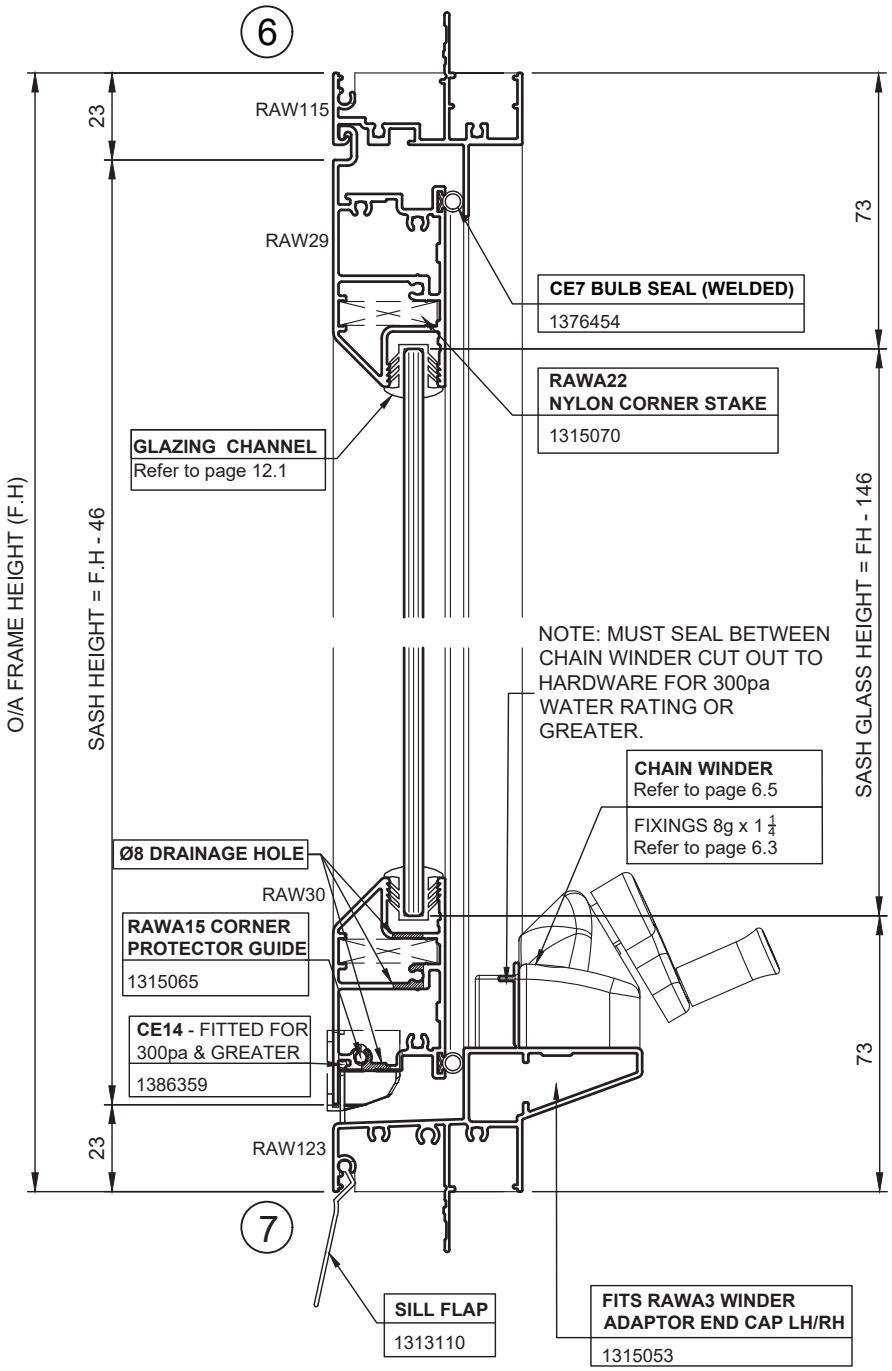
8. Typical Details

Vertical Detail - 92mm Frame Transom - Awning / Fixed Lite



NOTE: CE14 MUST HAVE SLOTS AT BOTTOM TO DRAIN. REFER TO PAGE 8.18 FOR REFERENCE.

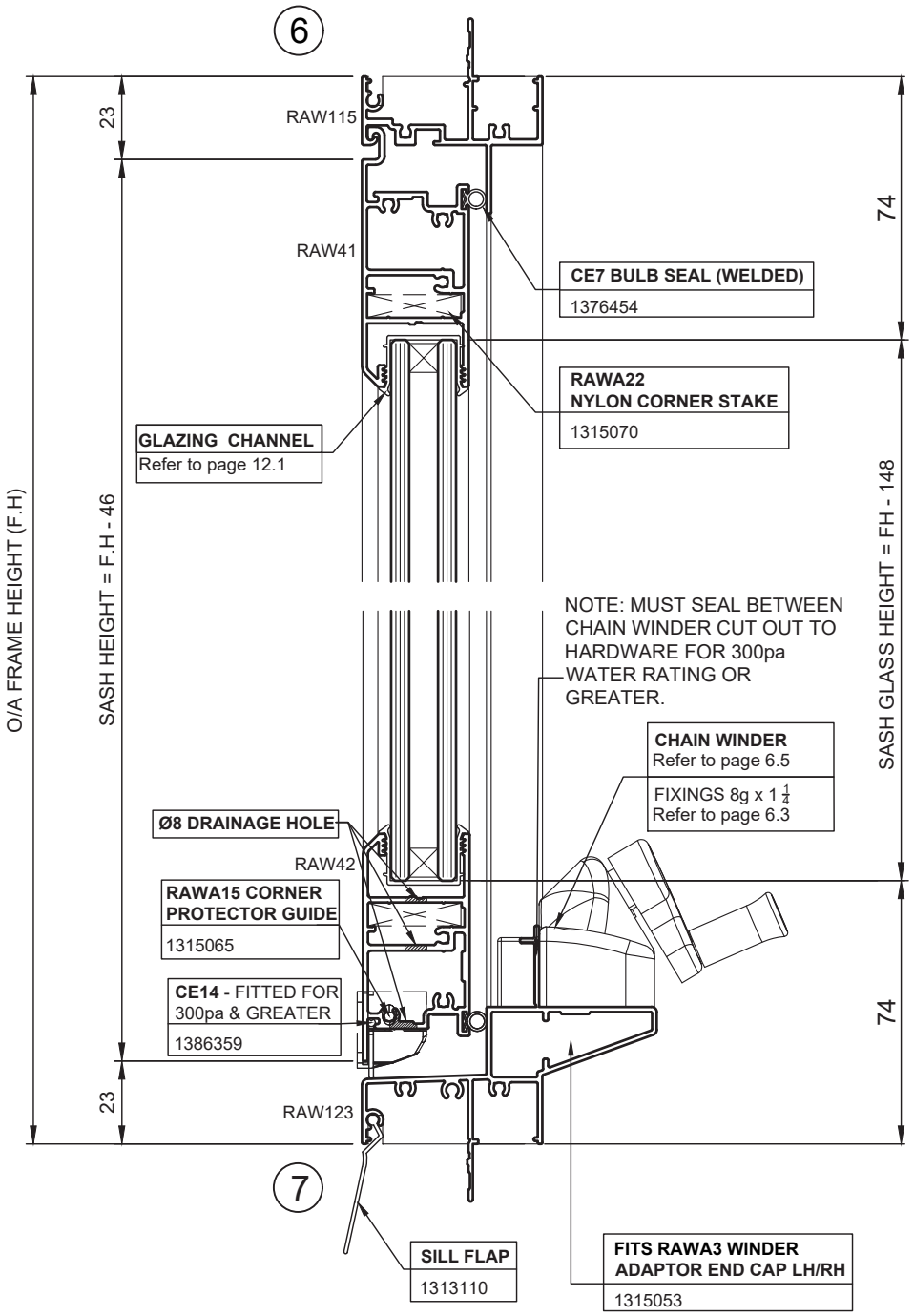
Vertical Detail - 50mm Frame with 60mm Wide Sash



NOTE: CE14 MUST HAVE SLOTS AT BOTTOM TO DRAIN. REFER TO PAGE 8.18 FOR REFERENCE.

8. Typical Details

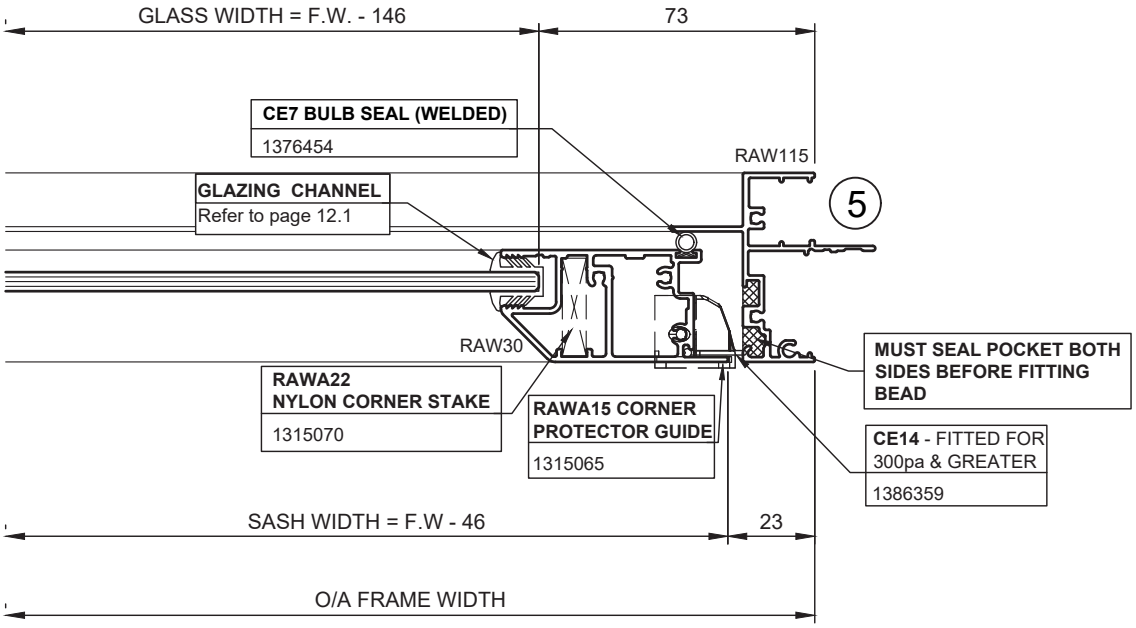
Vertical Detail - 50mm Frame with 63mm Double Glazed Wide Sash



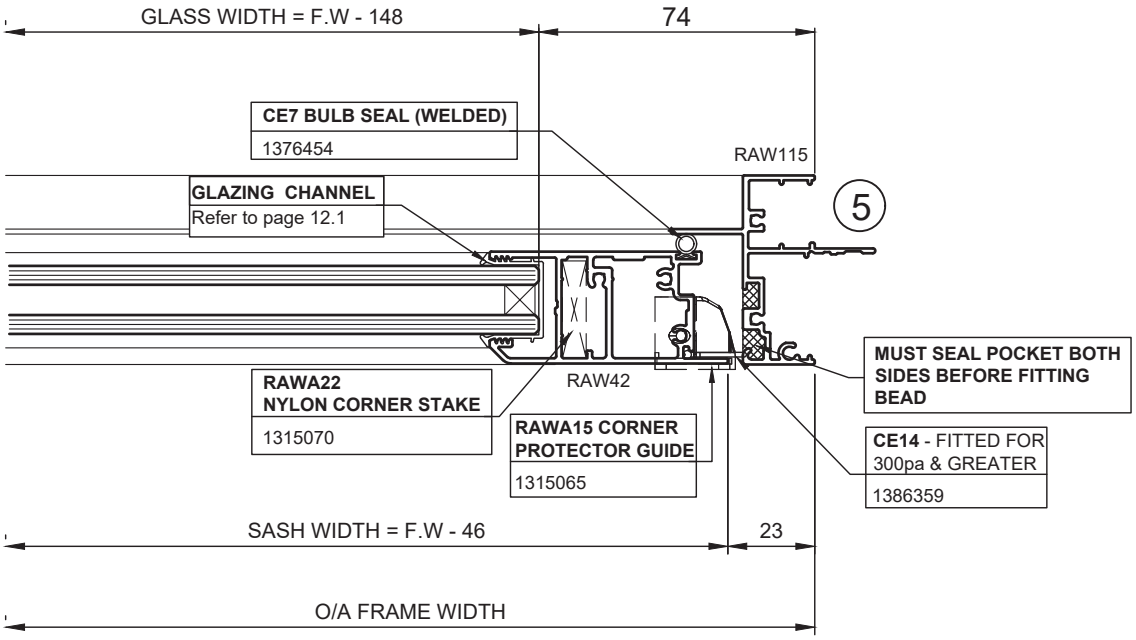
NOTE: CE14 MUST HAVE SLOTS AT BOTTOM TO DRAIN. REFER TO PAGE 8.18 FOR REFERENCE.

Horizontal Detail - 50mm Frame Awning with Wide Sash

Single Glazed

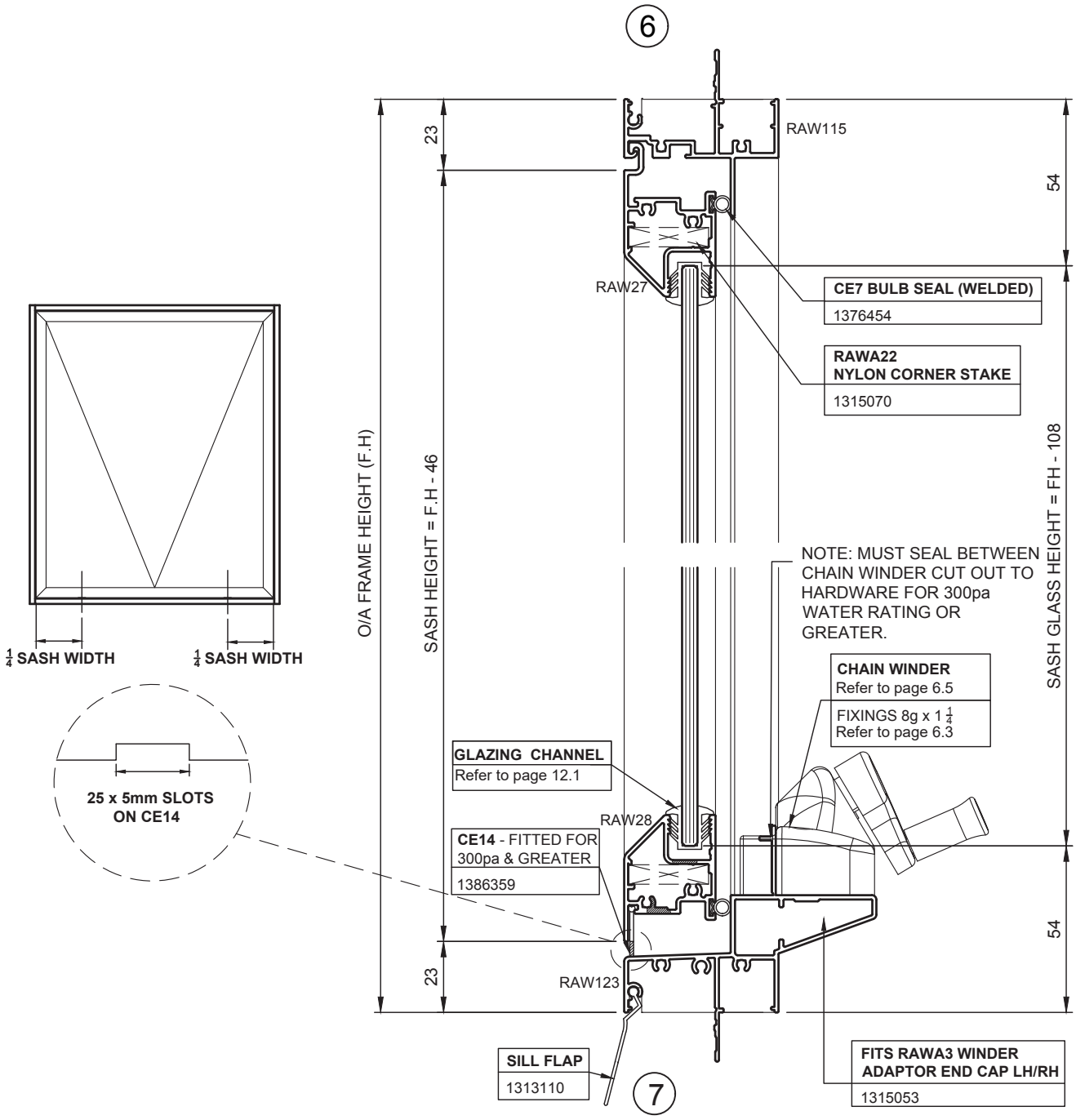


Double Glazed

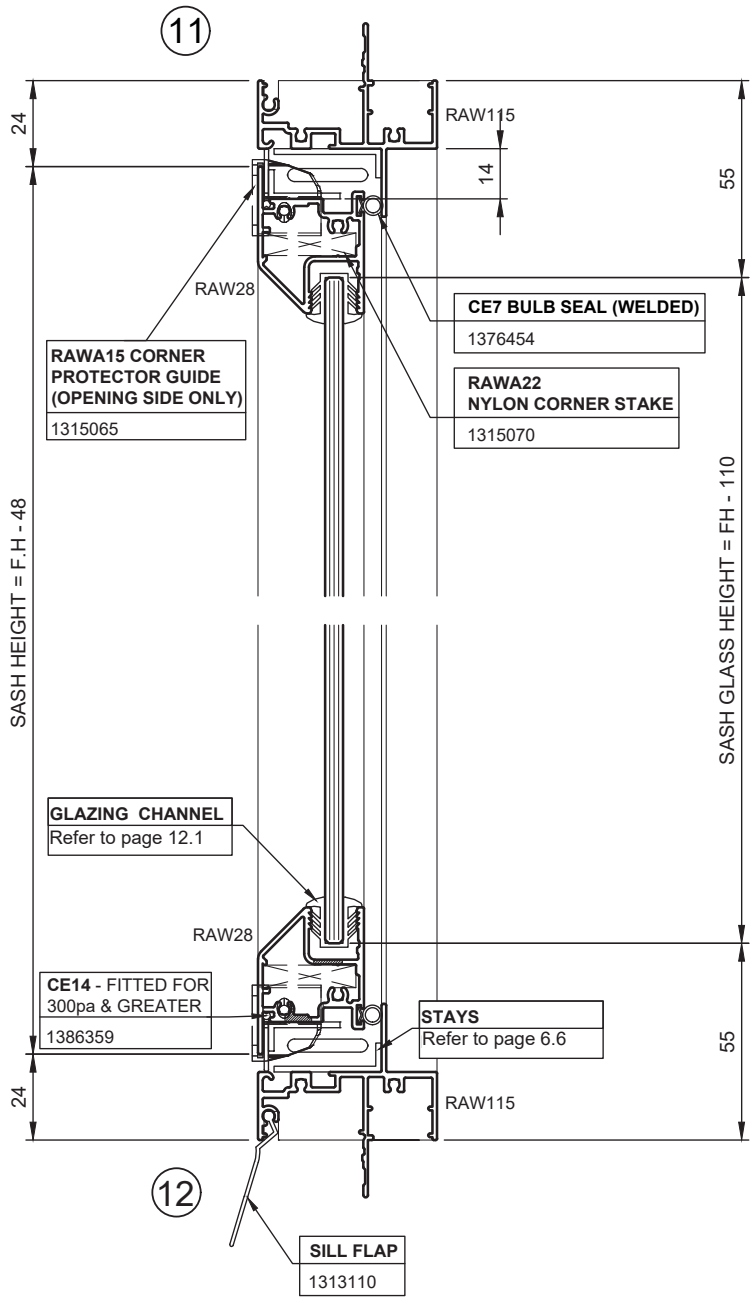


8. Typical Details

Vertical Detail - 50mm Frame SG Awning 450Pa

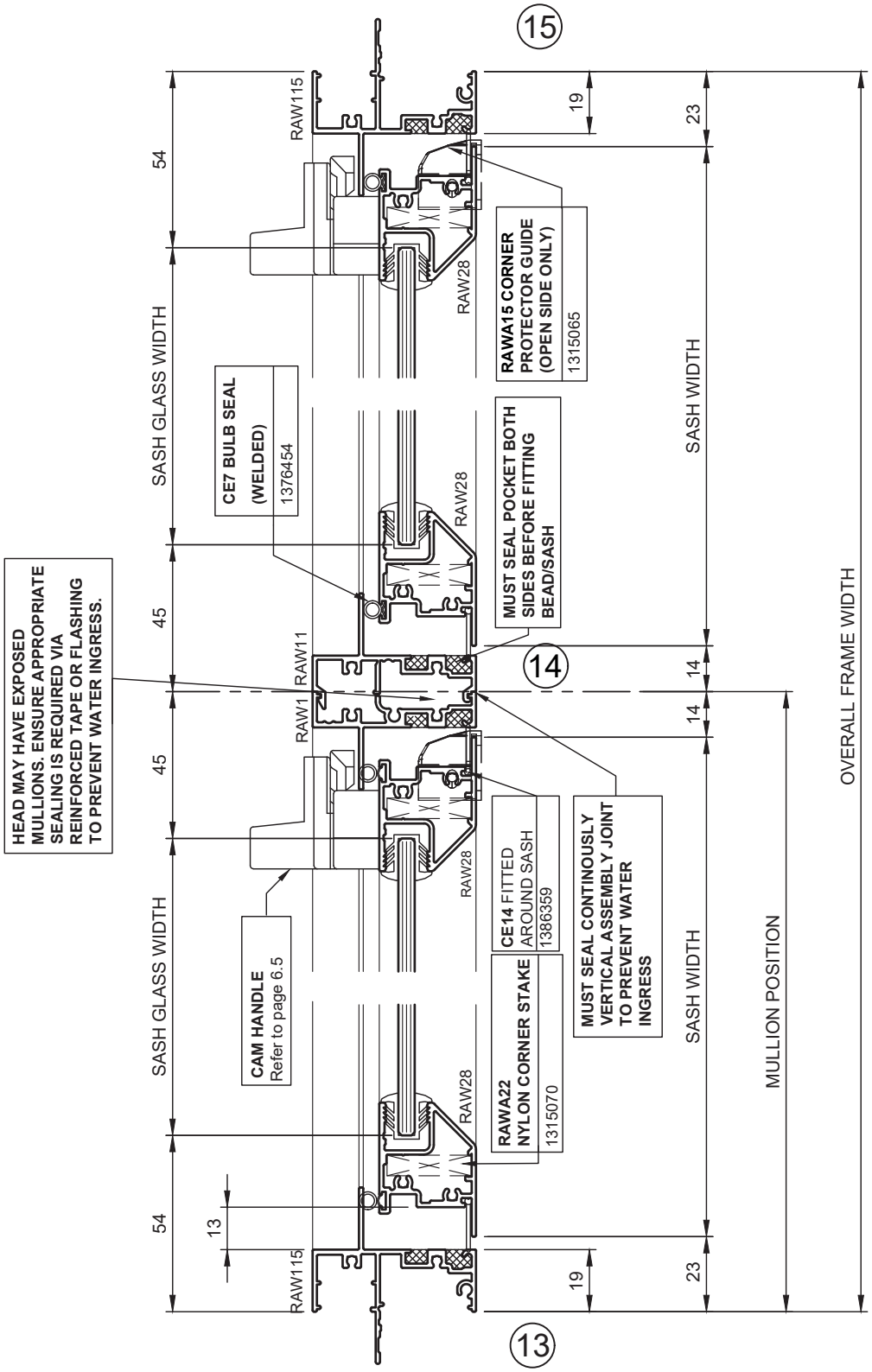


Vertical Detail - 50mm Frame Casement Sash



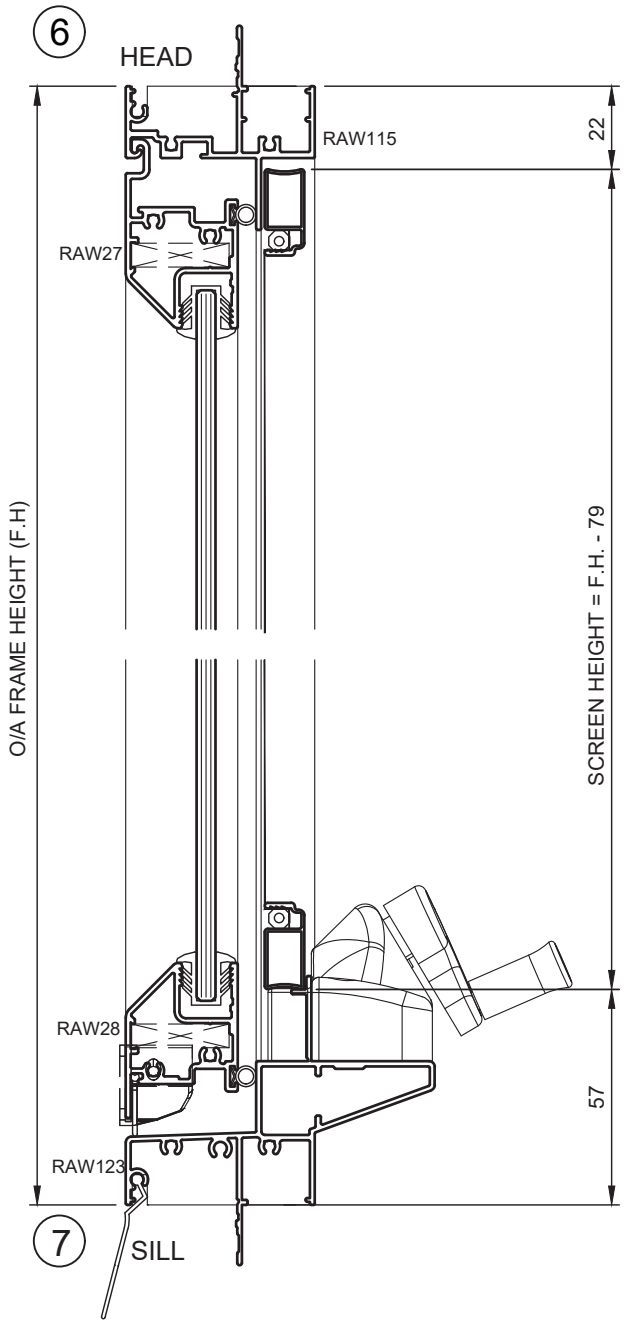
NOTE: NO SCREENING OPTION AVAILABLE DUE TO CAM HANDLE
CE14 MUST HAVE SLOTS AT BOTTOM TO DRAIN. REFER TO PAGE 8.18 FOR REFERENCE.

Horizontal Detail - 50mm Frame Casement / Casement

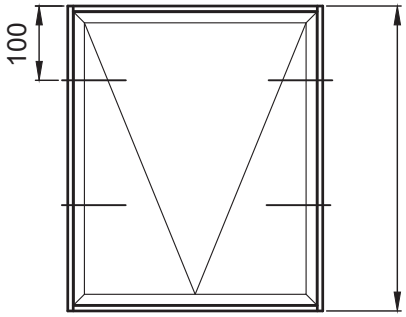


NOTE: NO SCREENING OPTION AVAILABLE DUE TO CAM HANDLE
CE14 MUST HAVE SLOTS AT BOTTOM TO DRAIN. REFER TO PAGE 8.18 FOR REFERENCE.

Fitting Detail - 50mm Frame Awning Fly Screen

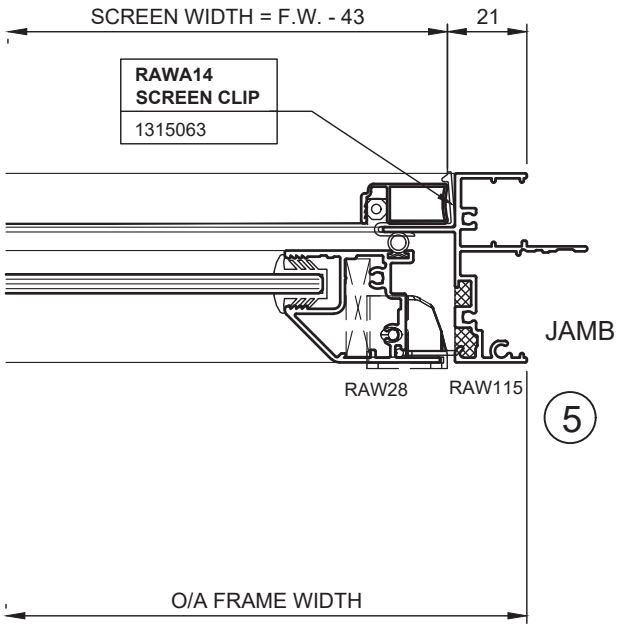


SCREEN CLIP LOCATION



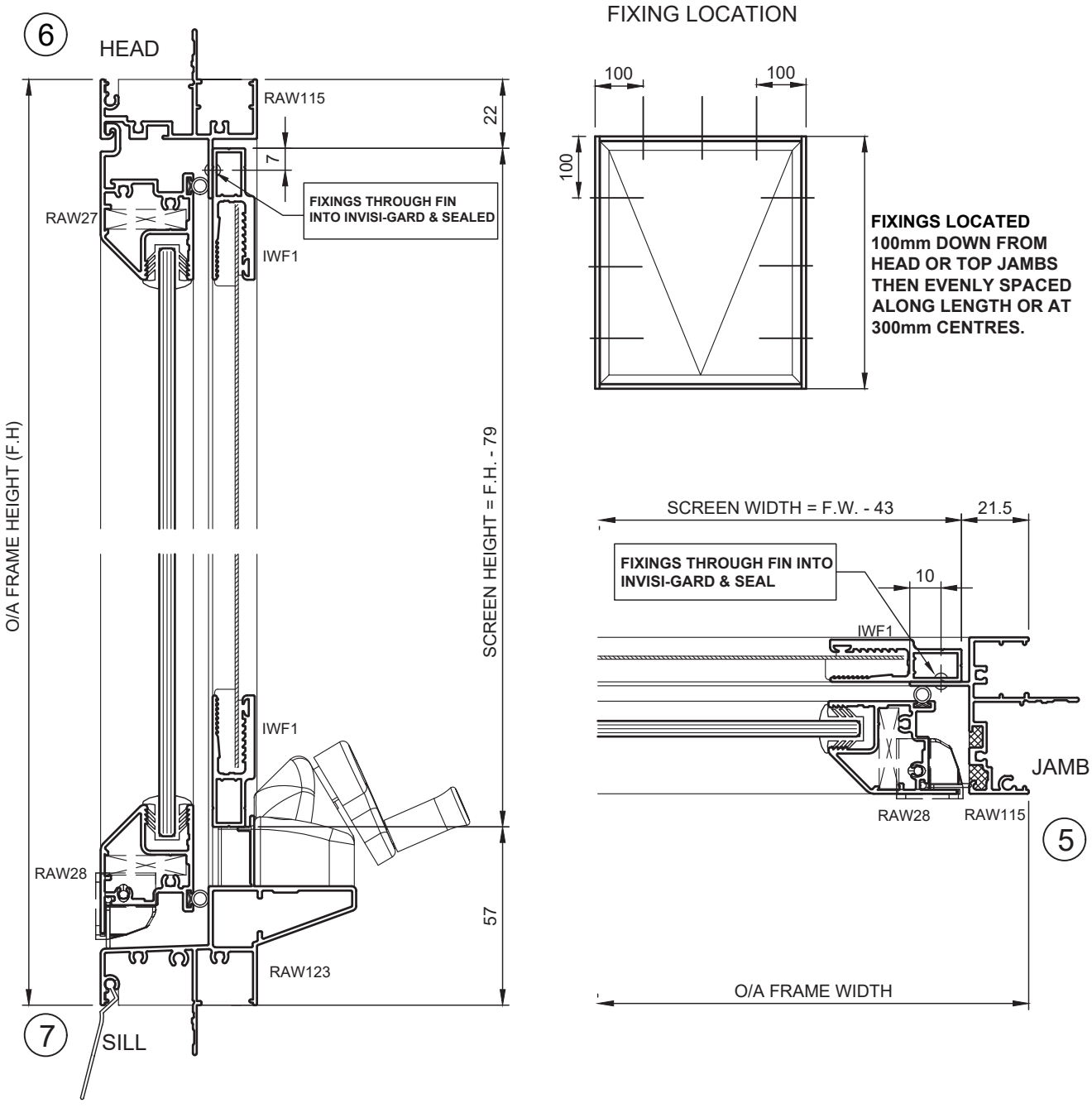
SCREEN CLIPS LOCATED 100mm DOWN FROM HEAD ONTO JAMB.

SCREEN HEIGHTS AND WIDTHS GREATER THAN 1.2m REQUIRE ADDITIONAL SCREEN CLIP ON THE JAMBS EVENLY SPACED.



NOTE: FORMULAS MAY VARY DEPENDING ON FRAME USED.
REFER TO V6 ITEM FABRICATION REPORT FOR DETAILS.

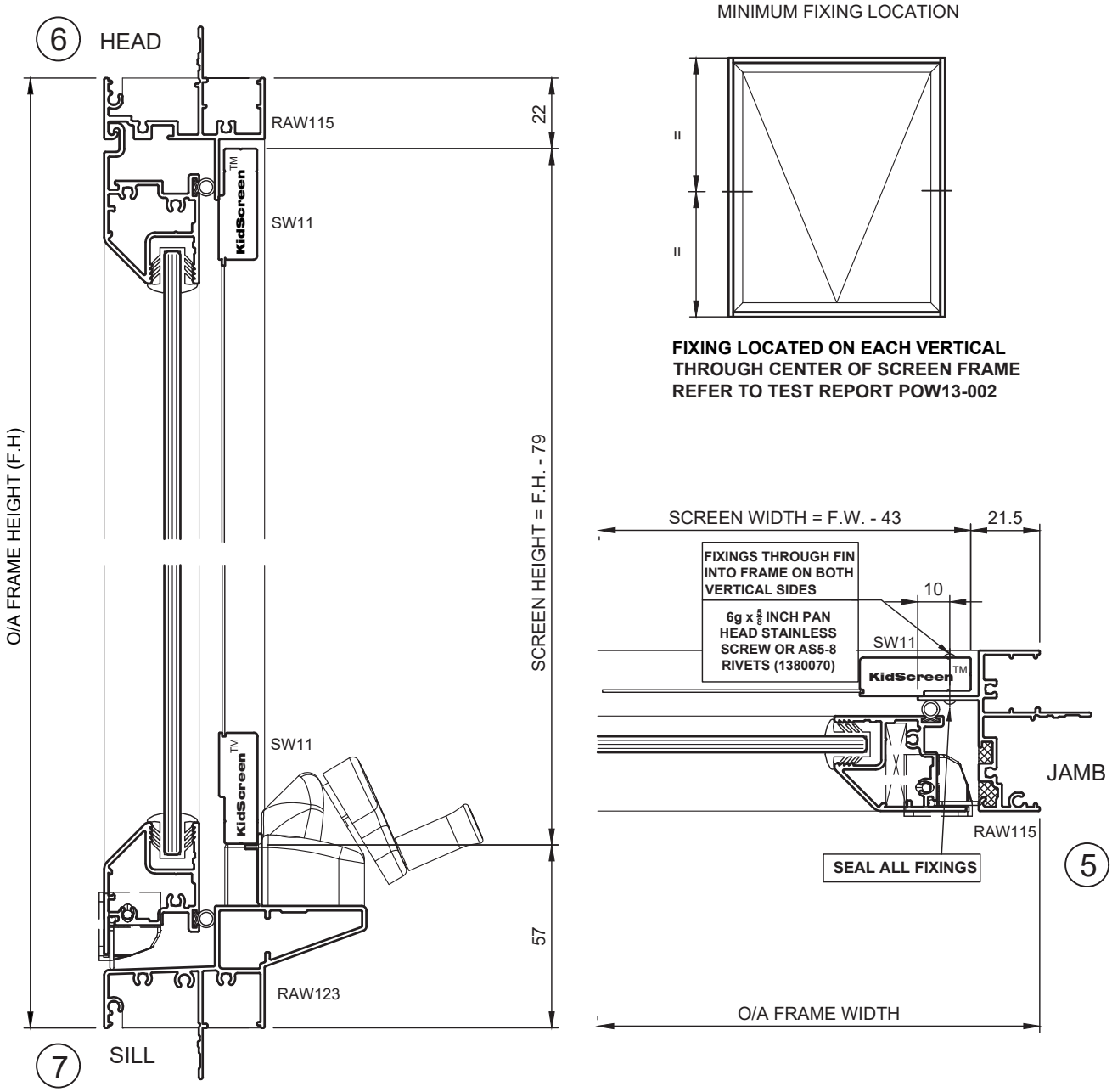
Fitting Detail - 50mm Frame Awning Invisi-Gard Screen



NOTE: IF SCREEN IS FIXED FROM OUTSIDE THEN MUST SEAL FIXINGS PRIOR TO RE ENGAGING SASH. FORMULAS MAY VARY DEPENDING ON FRAME USED. REFER TO SUPPLIER FOR DETAILS.

* DETAIL APPLICABLE TO A 92mm FRAME APPLICATION.

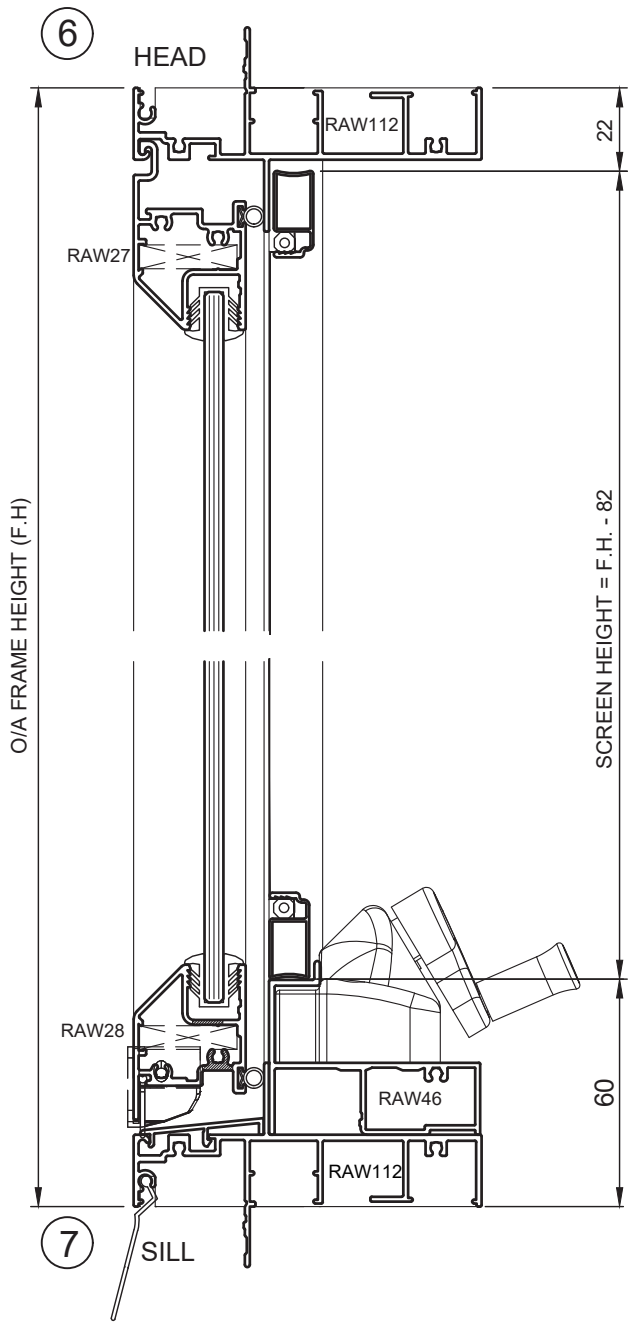
Fitting Detail - 50mm Frame Awning Window KidScreen



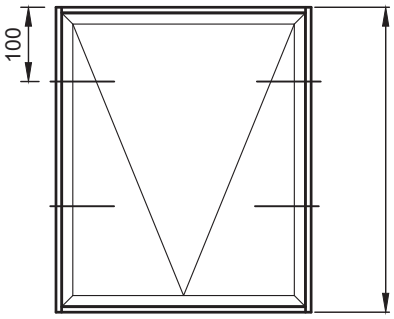
NOTE: IF SCREEN IS FIXED FROM OUTSIDE THEN MUST SEAL FIXINGS PRIOR TO RE ENGAGING SASH. FORMULAS MAY VARY DEPENDING ON FRAME USED. REFER TO SUPPLIER FOR DETAILS.

* DETAIL APPLICABLE TO A 92mm FRAME APPLICATION.

Fitting Detail - 92mm Frame Awning Fly Screen

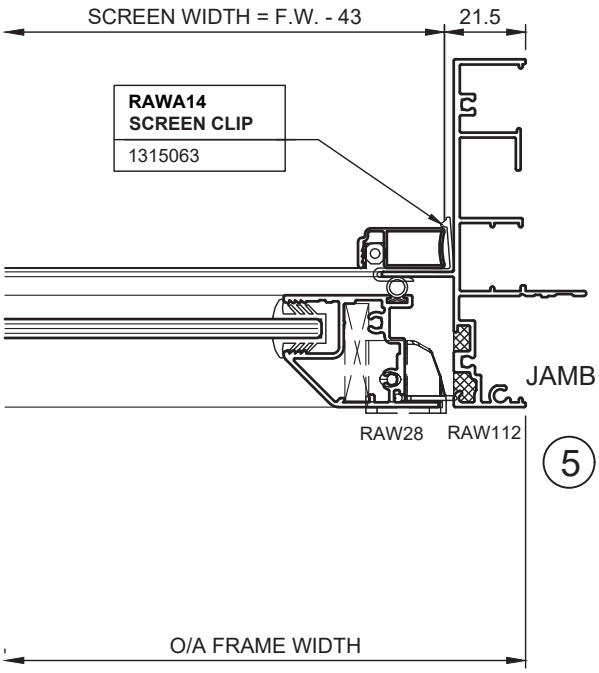


SCREEN CLIP LOCATION



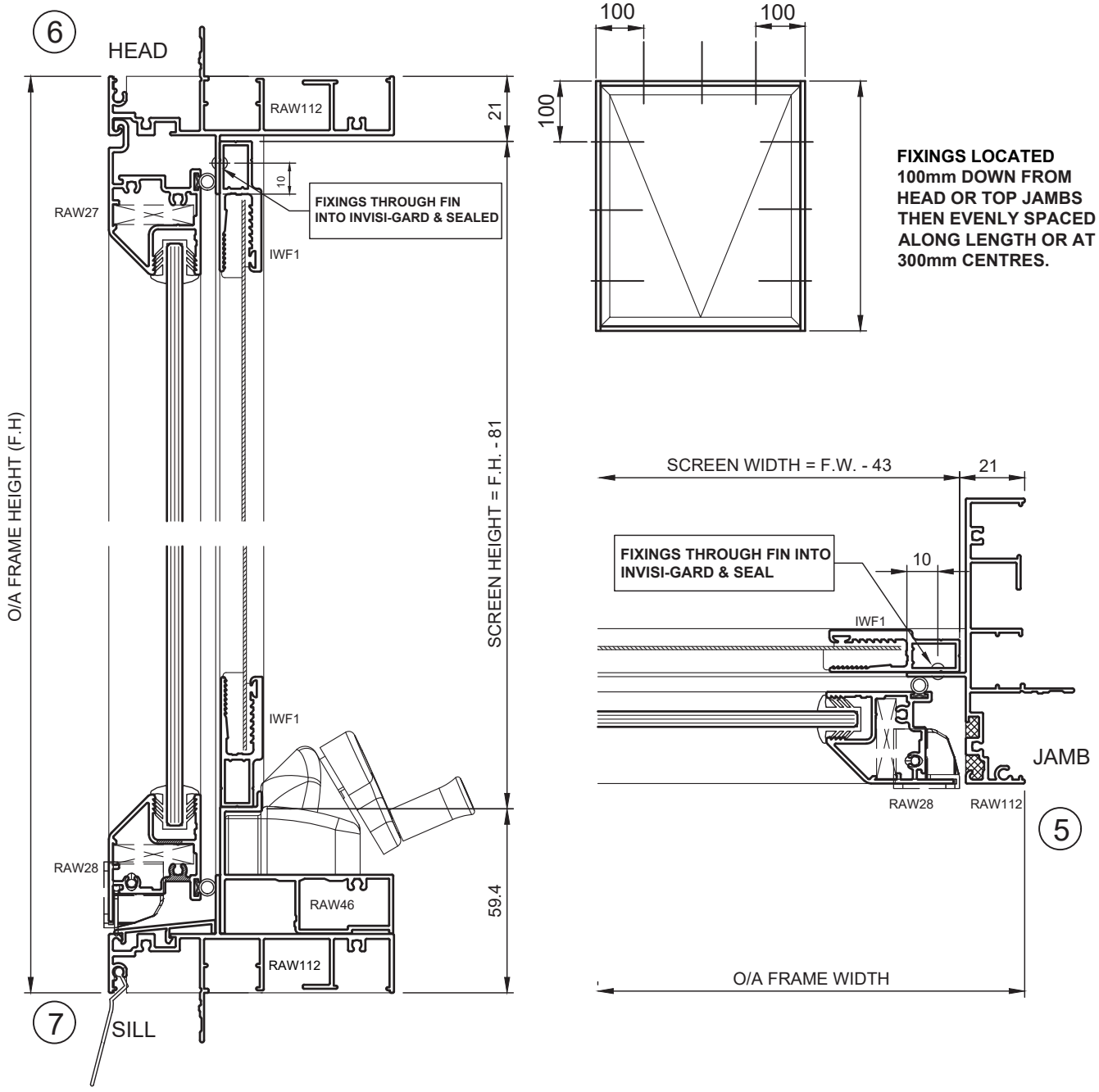
SCREEN CLIPS LOCATED 100mm DOWN FROM HEAD ONTO JAMB.

SCREEN HEIGHTS AND WIDTHS GREATER THAN 1.2m REQUIRE ADDITIONAL SCREEN CLIP ON THE JAMBS EVENLY SPACED.



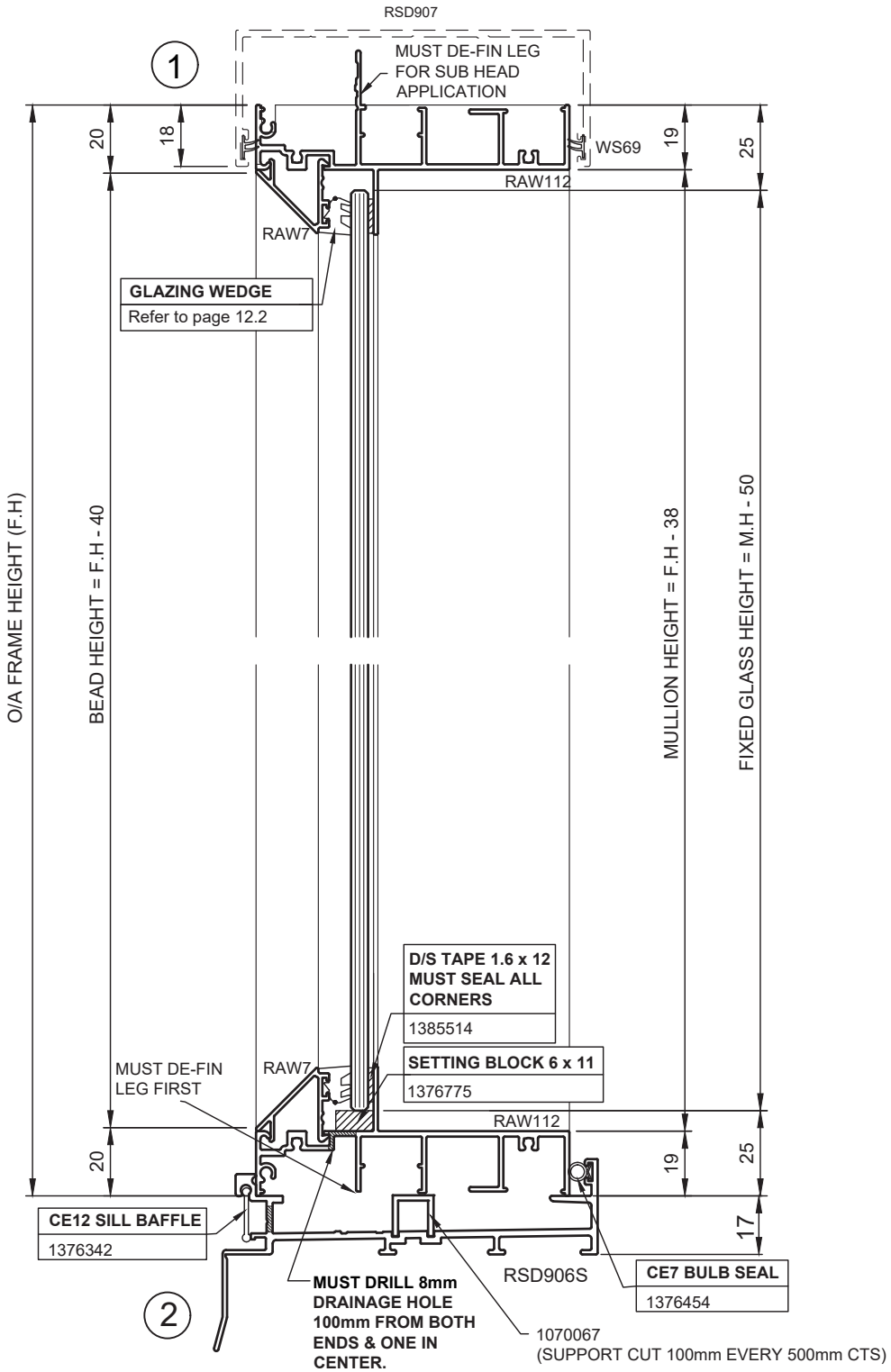
NOTE: FORMULAS MAY VARY DEPENDING ON FRAME USED.
REFER TO V6 ITEM FABRICATION REPORT FOR DETAILS.

Fitting Detail - 92mm Frame Awning Invisi-Gard Screen



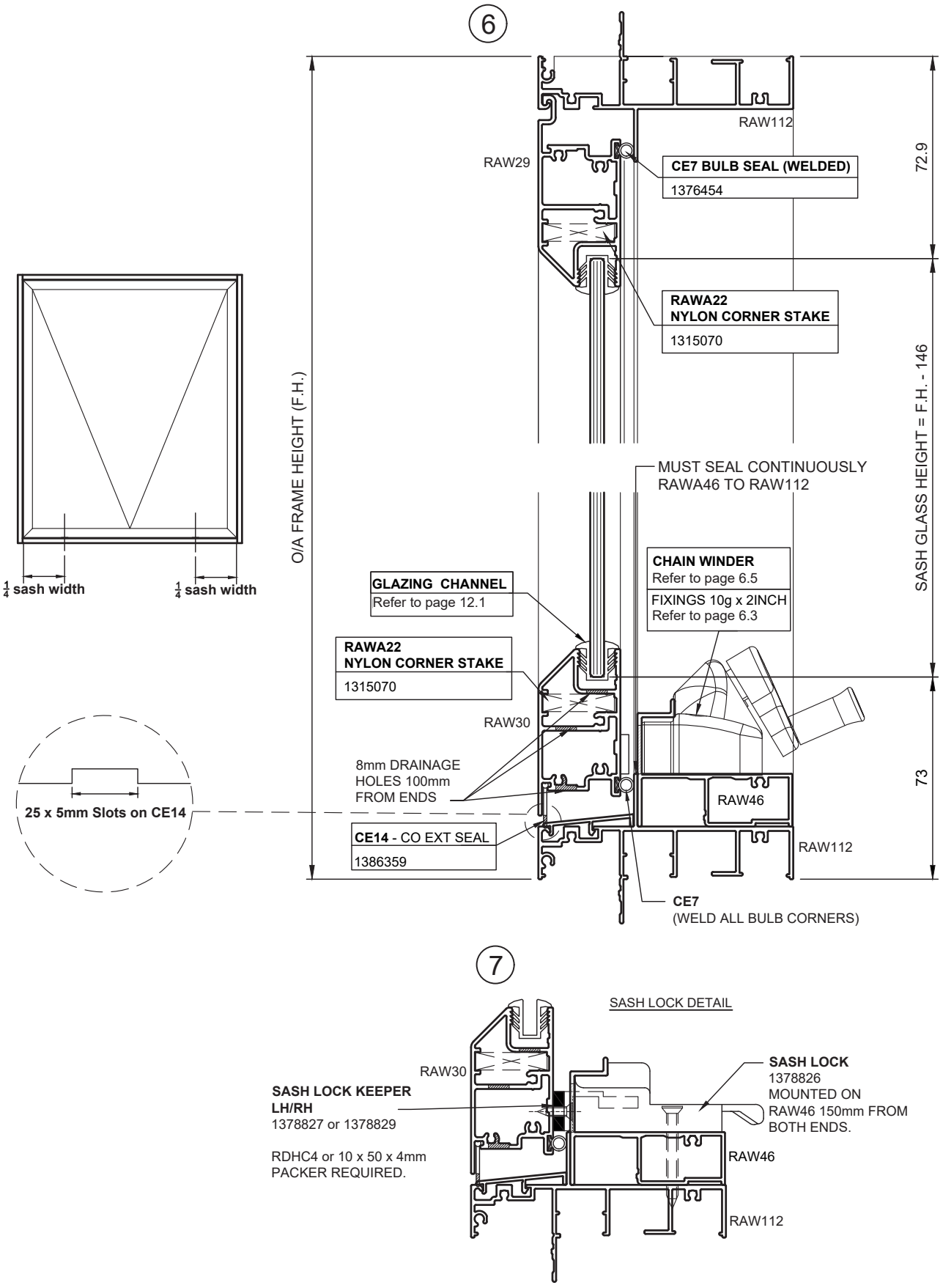
NOTE: SCREEN SHOWN IS FIXED FROM OUTSIDE. MUST SEAL SCREEN FIXINGS AFTER. FORMULAS MAY VARY DEPENDING ON FRAME USED. REFER TO V6 ITEM FABRICATION REPORT FOR DETAILS.

Vertical Detail - 92mm Frame Single Glazed Fixed Lite Sub Sill

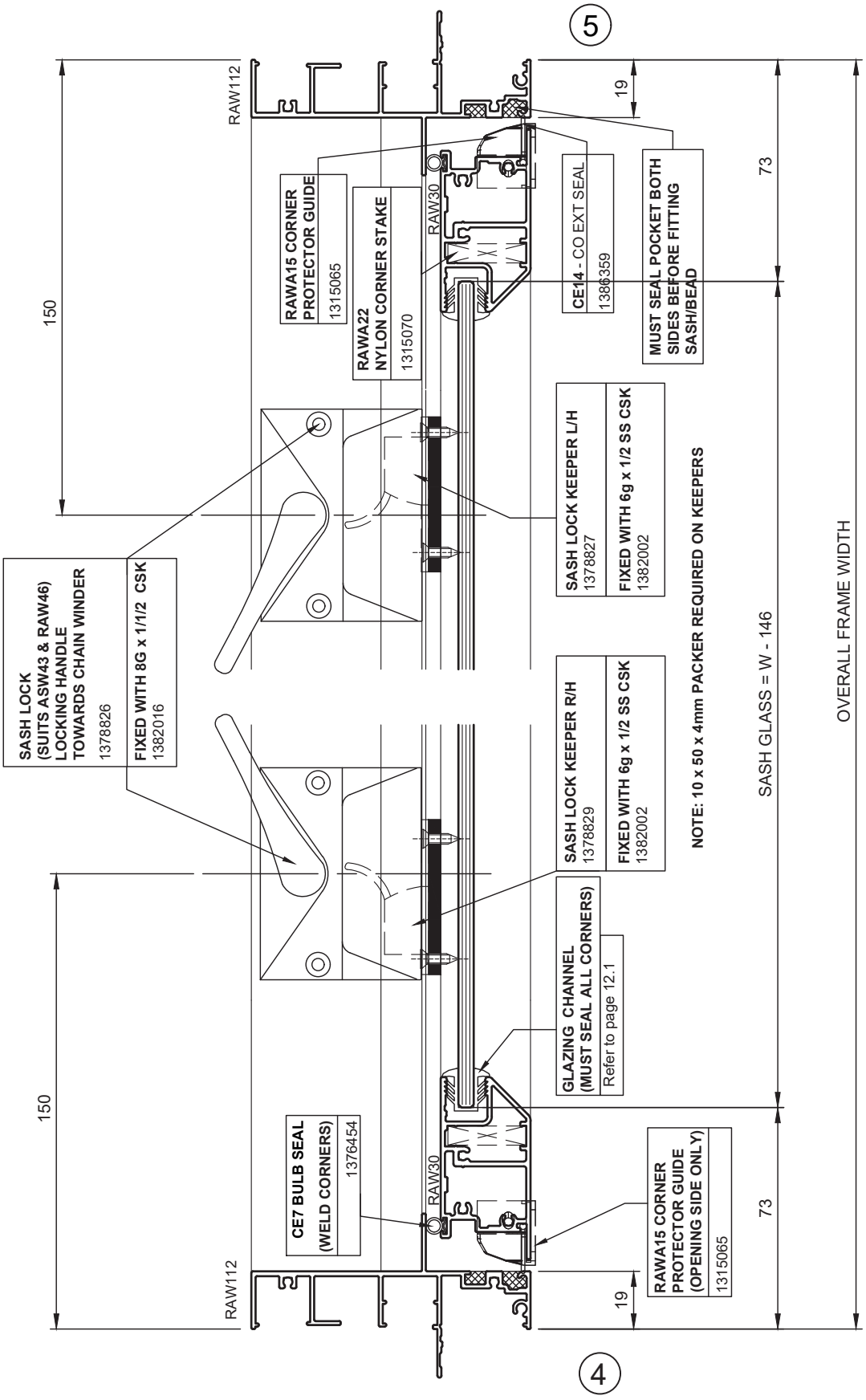


NOTE: ADDITIONAL 17mm REQUIRED IN FRAME HEIGHT FOR RSD906S SUBSILL.

Vertical Detail - 92mm Frame Single Awning 450 Pa

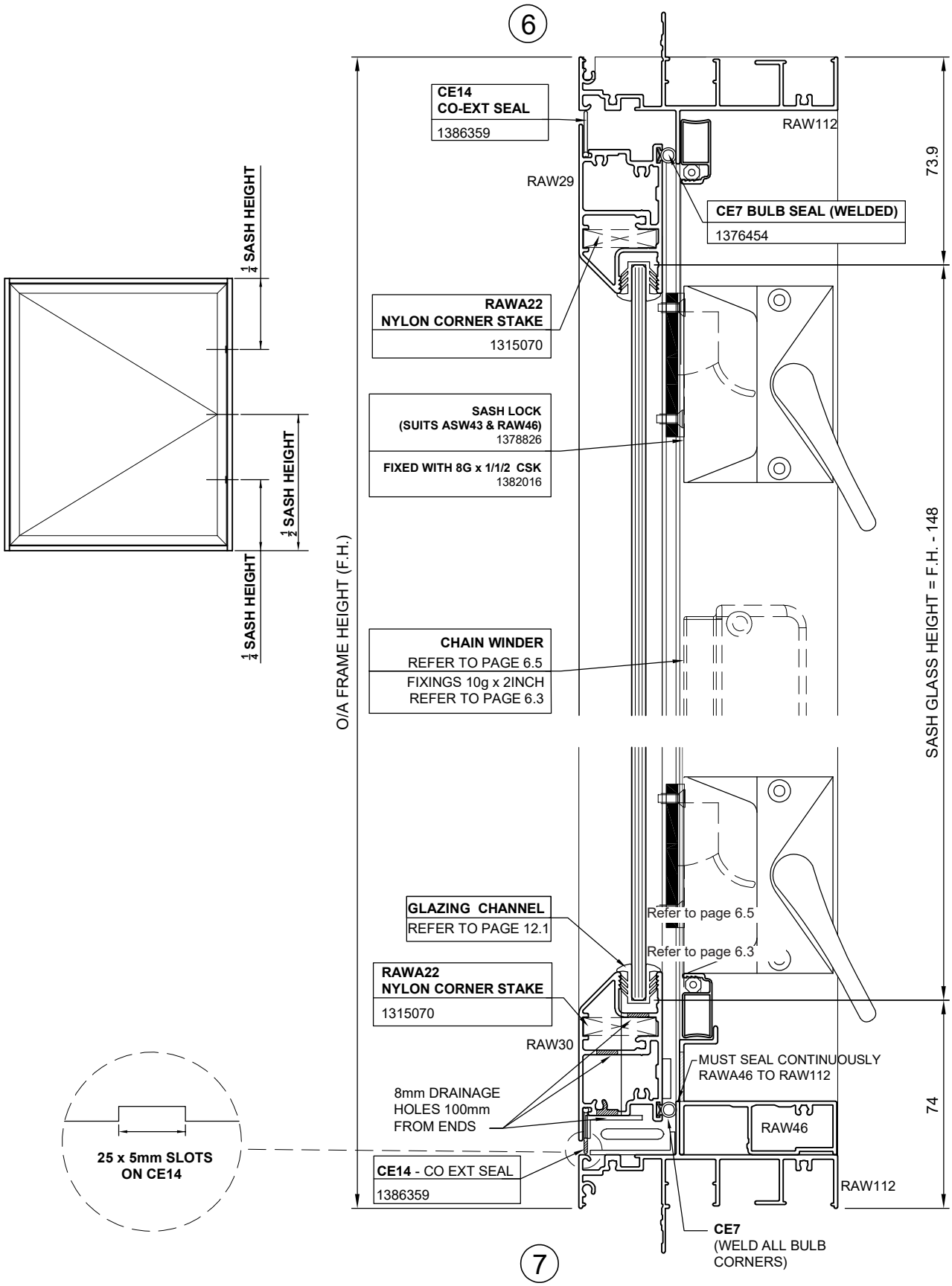


Horizontal Detail - 92mm Frame Single Awning 450 Pa

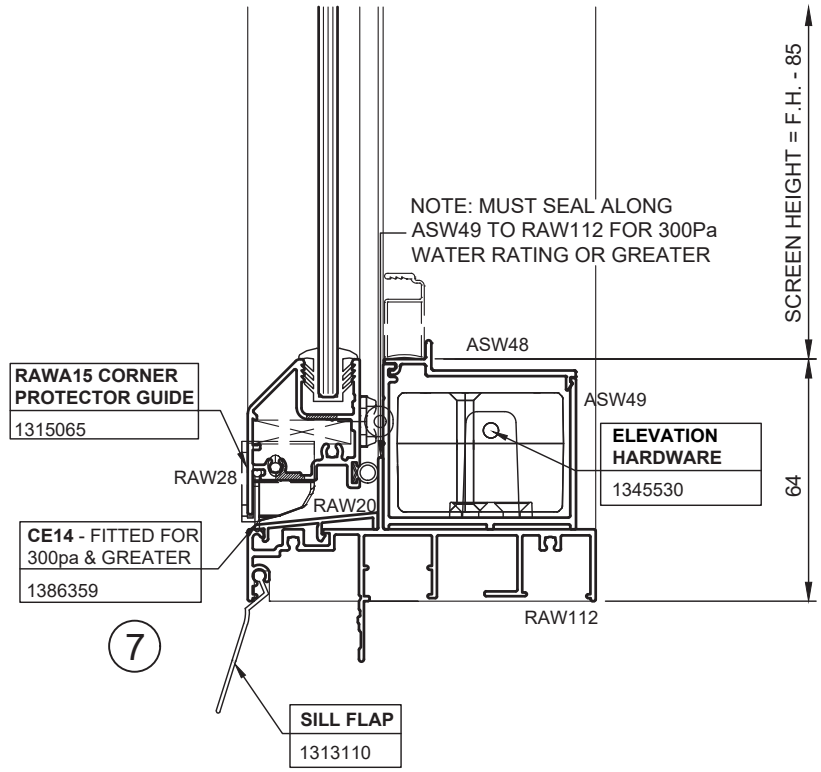


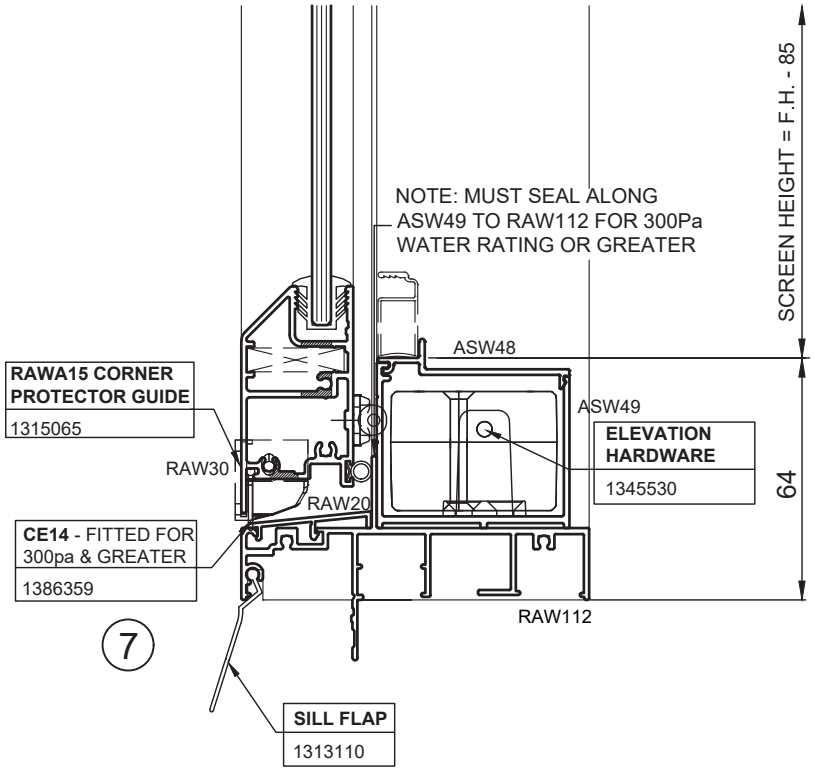
8. Typical Details

Vertical Detail - 92mm Frame Single Casement

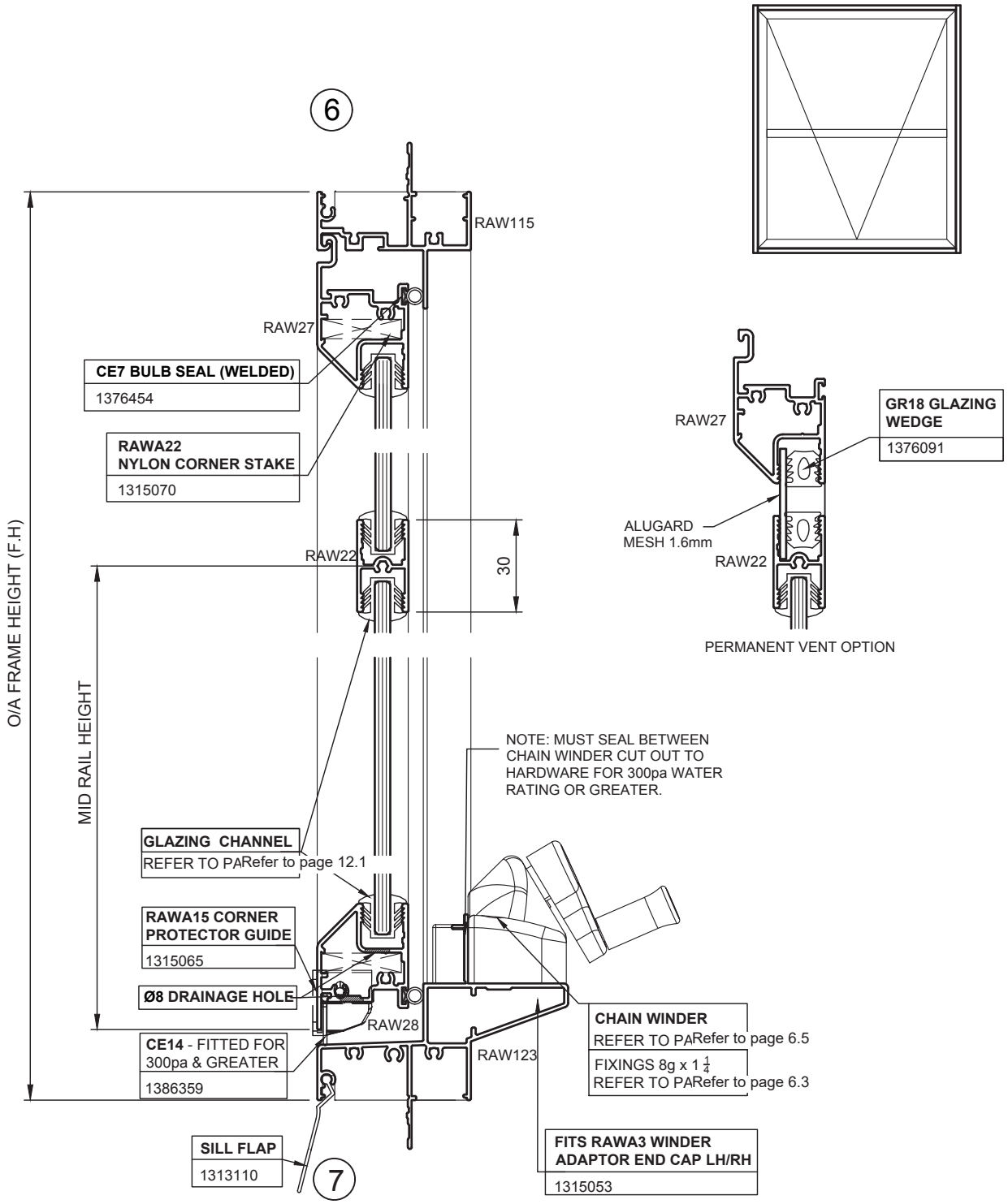


Vertical Detail - 92mm Frame Concealed Auto Chain Winder



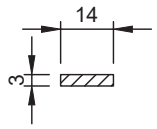


Vertical Detail - 50mm Frame RAW22 Mid-Rail Option

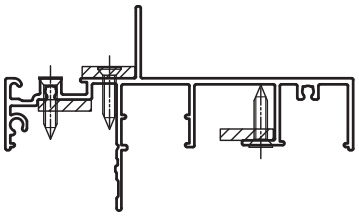


NOTE: MID-RAIL ALSO APPLICABLE TO 92mm FRAME & WIDE SASH OPTION
CE14 MUST HAVE SLOTS AT BOTTOM TO DRAIN. REFER TO PAGE 8.18 FOR REFERENCE.

90 Degree Corner Splice Details



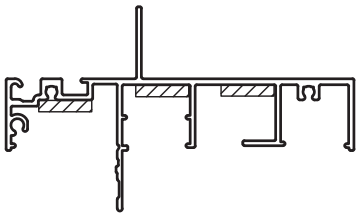
RSDA16 (1315038)
90 DEG CORNER SPLICE
100 x 14 x 3mm ALUMINUM



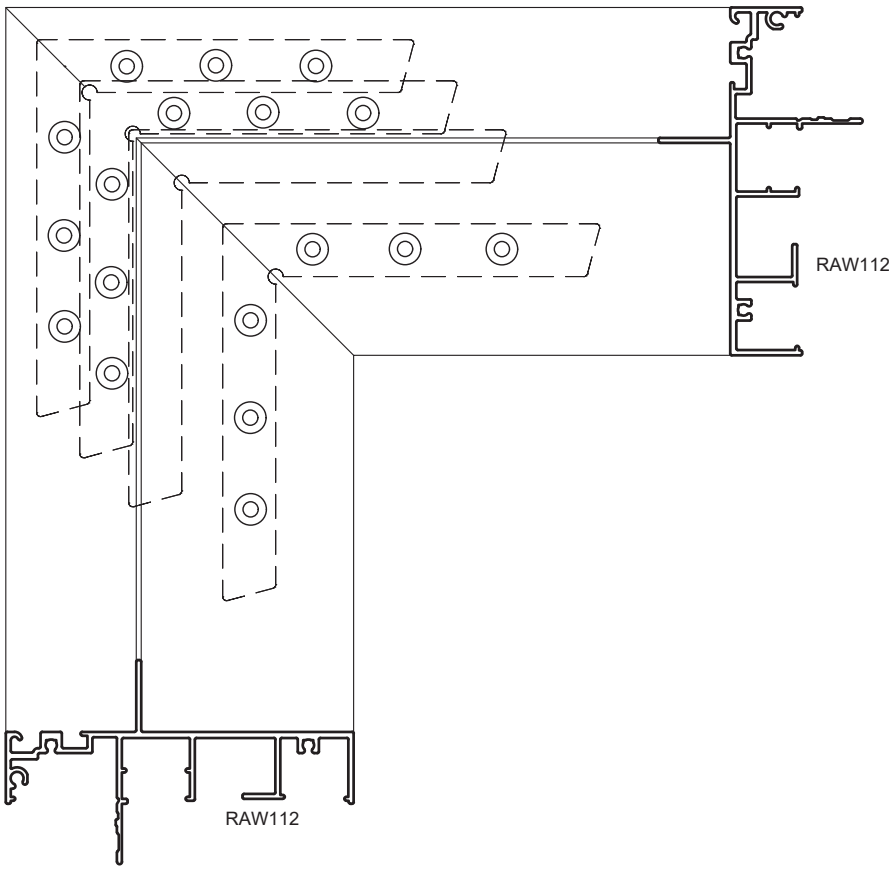
RAW112
HEAD/SILL

FIX CORNER SPLICE WITH 6g x 19mm CSK STAINLESS SCREWS THREE EACH SIDE or STAINLESS POP RIVET & SEAL JOINT.

ALTERNATIVELY WELD THE FRAME AND SPLICE ALONG THE UNDERSIDE OF THE MITRE JOINT & SEAL ACCORDINGLY.

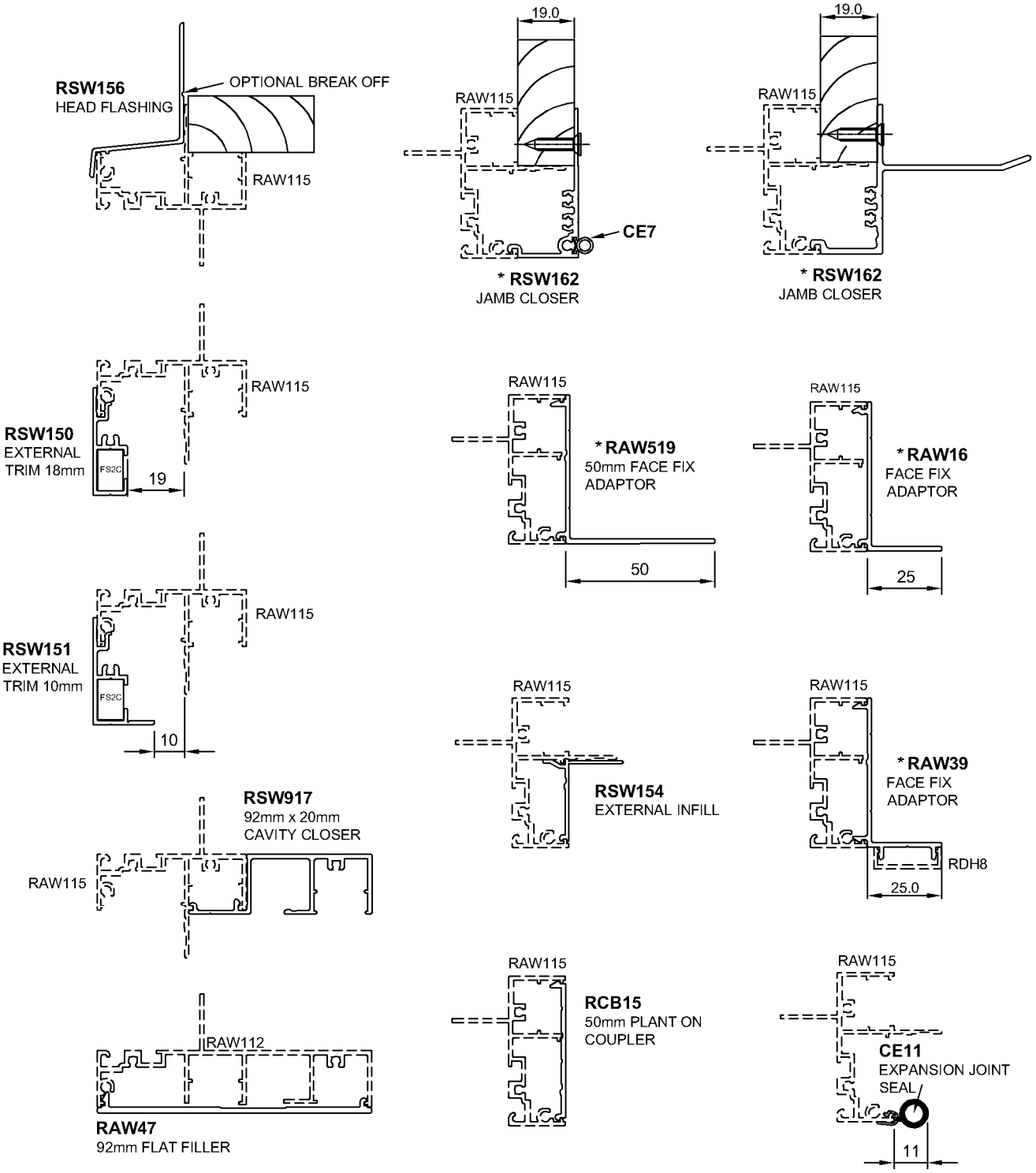


RAW112
HEAD/SILL



8. Typical Details

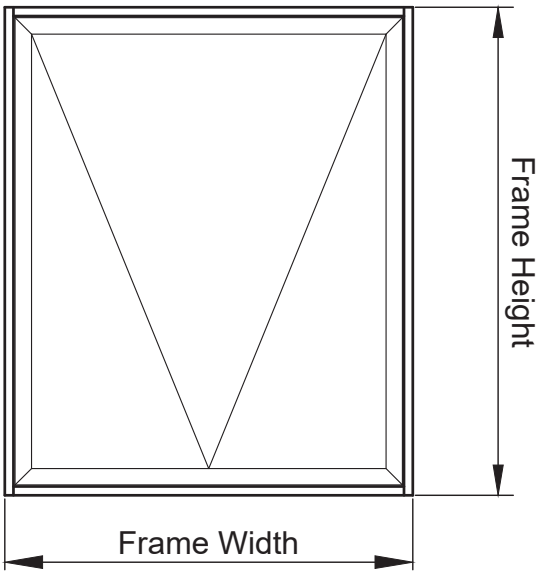
External Trims & Accessory Application



* NOTE: MITRE OR STRAIGHT CUT OPTION. MUST SEAL ADAPTOR TO FRAME & COVER ANY EXPOSED CAVITIES. RECOMMEND FITTING RSW156 HEAD FLASHING ACROSS HEAD OR REINFORCED SEALING TAPE.

9. Cutting Formulas

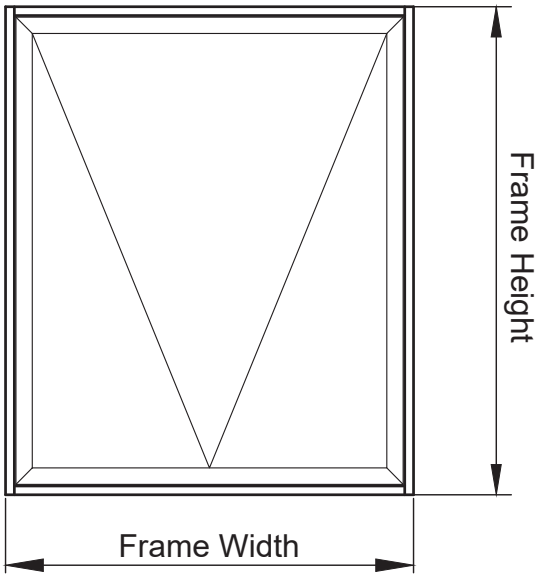
50mm Frame Single Glazed Awning



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	RAW115	Frame	Frame Height	2
	RAW115	Frame	Frame Width - 38mm	1
	RAW123	50mm Sill	Frame Width - 38mm	1
	RAW27	SG Hinge Sash	Frame Width - 28mm	1
	RAW28	SG Sash	Frame Width - 46mm	1
	RAW28	SG Sash	Frame Height - 46mm	2
	FS2	FS2 Screen Stiles	Frame Height - 79mm	2
	FS2	FS2 Screen Rails	Frame Width - 43mm	2
GLASS	HEIGHT		Frame Height - 108mm	1
	WIDTH		Frame Width - 108mm	

9. Cutting Formulas

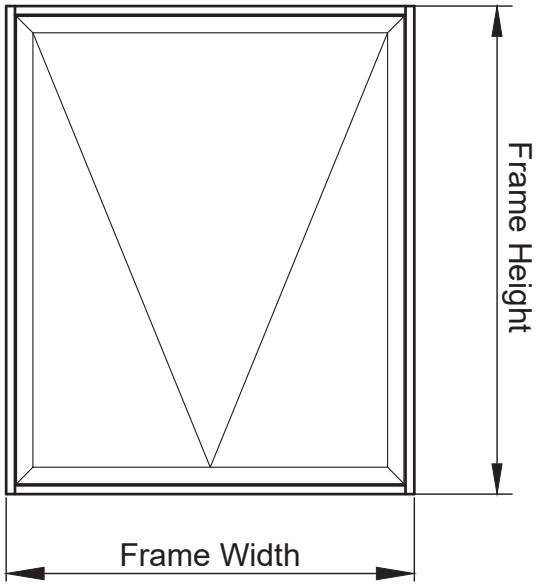
50mm Frame Double Glazed Awning



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	RAW115	Frame	Frame Height	2
	RAW115	Frame	Frame Width - 38mm	1
	RAW123	50mm Sill	Frame Width - 38mm	1
	RAW43	DG Hinge Sash	Frame Width - 28mm	1
	RAW44	DG Sash	Frame Width - 46mm	1
	RAW44	DG Sash	Frame Height - 46mm	2
	FS2	FS2 Screen Stiles	Frame Height - 79mm	2
	FS2	FS2 Screen Rails	Frame Width - 43mm	2
GLASS	HEIGHT		Frame Height - 110mm	1
	WIDTH		Frame Width - 110mm	

9. Cutting Formulas

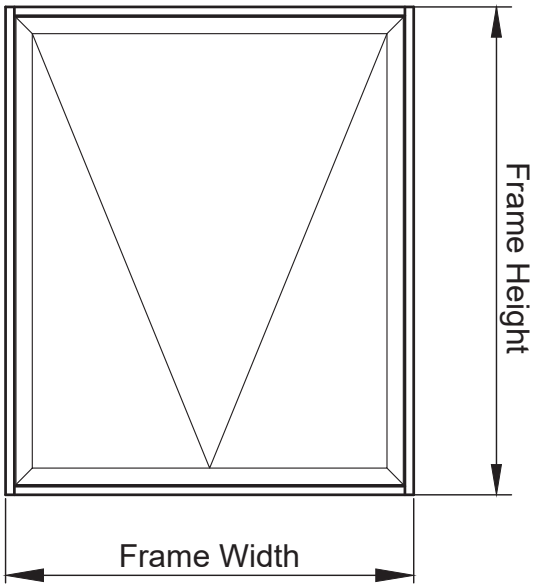
50mm Frame Single Glazed Awning 60mm Sash



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	RAW115	Frame	Frame Height	2
	RAW115	Frame	Frame Width - 38mm	1
	RAW123	50mm Sill	Frame Width - 38mm	1
	RAW29	SG Hinge Sash	Frame Width - 28mm	1
	RAW30	SG Sash	Frame Width - 46mm	1
	RAW30	SG Sash	Frame Height - 46mm	2
	FS2	FS2 Screen Stiles	Frame Height - 79mm	2
	FS2	FS2 Screen Rails	Frame Width - 43mm	2
GLASS	HEIGHT		Frame Height - 146mm	1
	WIDTH		Frame Width - 146mm	

9. Cutting Formulas

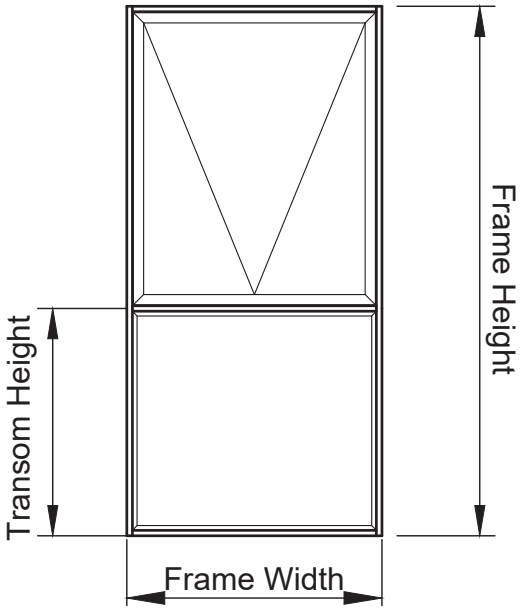
50mm Frame Double Glazed Awning 63mm Sash



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	RAW115	Frame	Frame Height	2
	RAW115	Frame	Frame Width - 38mm	1
	RAW123	50mm Sill	Frame Width - 38mm	1
	RAW41	DG Hinge Sash	Frame Width - 28mm	1
	RAW42	DG Sash	Frame Width - 46mm	1
	RAW42	DG Sash	Frame Height - 46mm	2
	FS2	FS2 Screen Stiles	Frame Height - 79mm	2
	FS2	FS2 Screen Rails	Frame Width - 43mm	2
GLASS	HEIGHT		Frame Height - 148mm	1
	WIDTH		Frame Width - 148mm	

9. Cutting Formulas

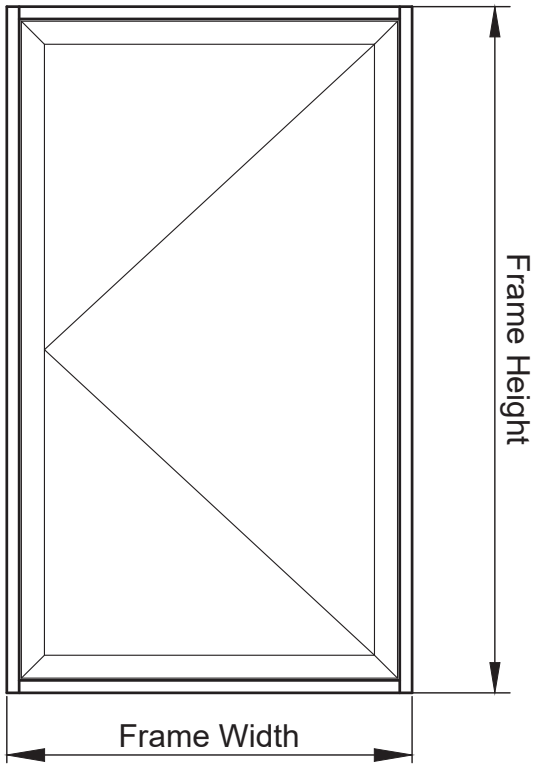
50mm Frame Single Glazed Awning with Low Lite



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	RAW115	Frame	Frame Height	2
	RAW115	Frame	Frame Width - 38mm	2
	RAW25	Transom	Frame Width - 38mm	1
	RAW27	SG Hinge Sash	Frame Width - 28mm	1
	RAW28	SG Sash	Frame Width - 46mm	1
	RAW28	SG Sash	Frame Height - Transom Height - 39mm	2
	RAW7	Bead	Transom Height - 30.5mm	2
	RAW7	Bead	Frame Width - 32mm	2
	FS2	FS2 Screen Stiles	Frame Height - Tramsom Height - 71mm	2
	FS2	FS2 Screen Rails	Frame Width - 43mm	2
SASH GLASS	HEIGHT		Frame Height - Transom Height - 101mm	1
	WIDTH		Frame Width - 108mm	
LOW LITE GLASS	HEIGHT		Transom Height - 42mm	1
	WIDTH		Frame Width - 50mm	

9. Cutting Formulas

50mm Frame Single Glazed Casement



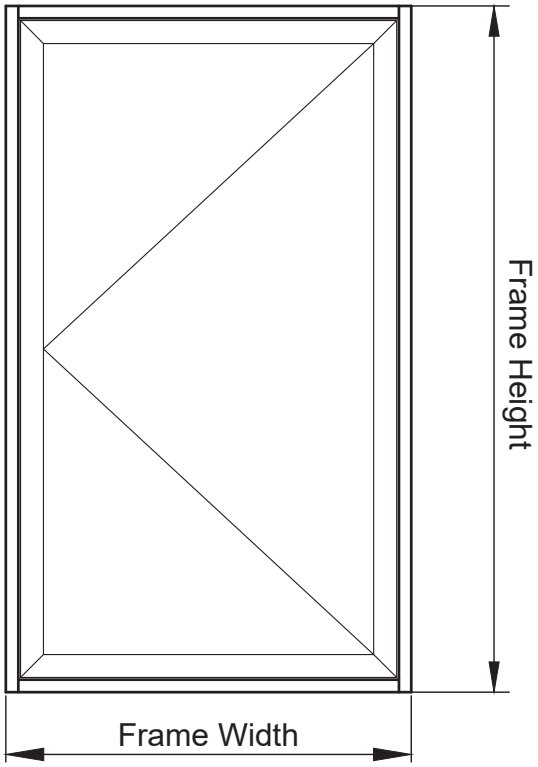
NO SCREENING AVAILABLE WITH CAM HANDLE

PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	RAW115	Frame	Frame Height	2
	RAW115	Frame	Frame Width - 38mm	2
	RAW30	SG Sash	Frame Width - 44mm	2
	RAW30	SG Sash	Frame Height - 48mm	2
GLASS	HEIGHT		Frame Height - 148mm	1
	WIDTH		Frame Width - 146mm	

Note: 60mm Sash Shown. 40mm Sash can be used

9. Cutting Formulas

50mm Frame Double Glazed Casement



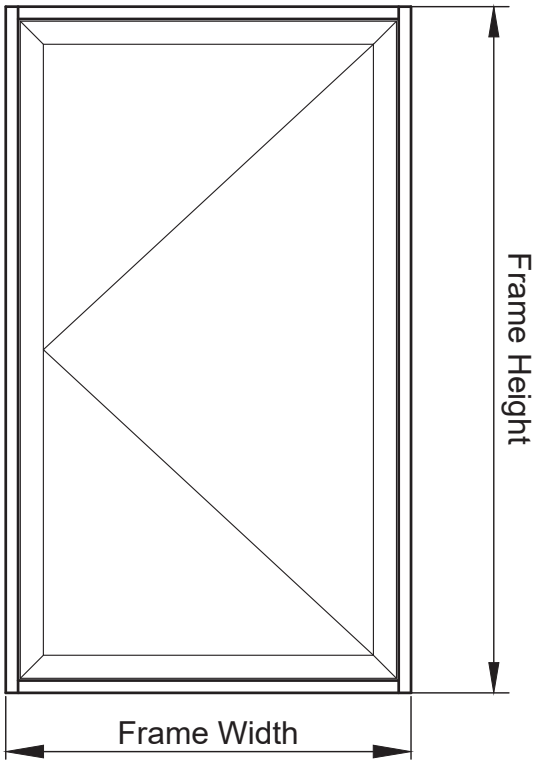
NO SCREENING AVAILABLE WITH CAM HANDLE

PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	RAW115	Frame	Frame Height	2
	RAW115	Frame	Frame Width - 38mm	2
	RAW28	SG Sash	Frame Width - 44mm	2
	RAW28	SG Sash	Frame Height - 48mm	2
GLASS	HEIGHT		Transom Height - 150mm	1
	WIDTH		Frame Width - 148mm	

Note: 40mm Sash Shown

9. Cutting Formulas

50mm Frame Single Glazed Casement



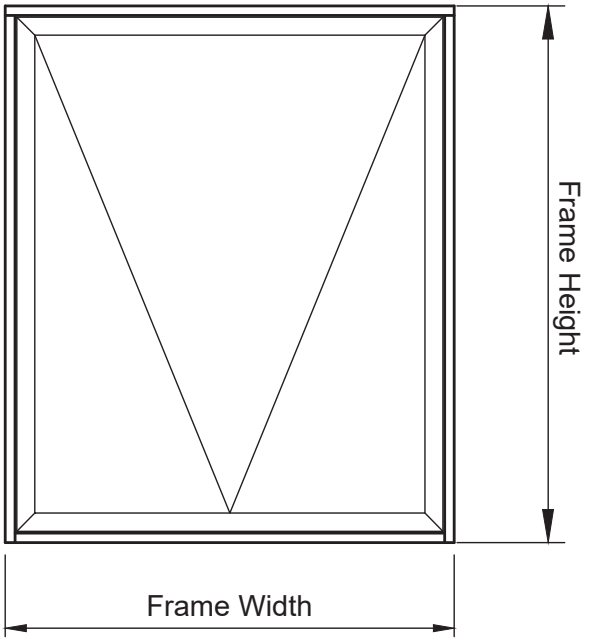
NO SCREENING AVAILABLE WITH CAM HANDLE

PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	RAW115	Frame	Frame Height	2
	RAW115	Frame	Frame Width - 38mm	2
	RAW42	DG Sash	Frame Width - 46mm	2
	RAW42	DG Sash	Frame Height - 48mm	2
GLASS	HEIGHT		Frame Height - 110mm	1
	WIDTH		Frame Width - 108mm	

Note: 60mm Sash Shown. 40mm Sash can be used

9. Cutting Formulas

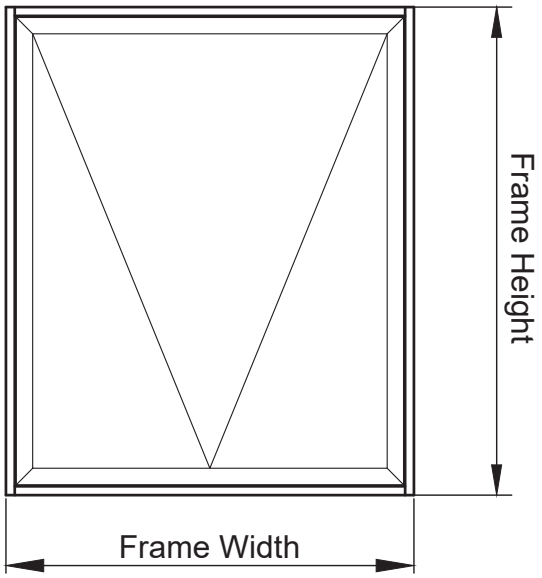
50mm Frame Single Glazed Awning - Run Through Head



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	RAW115	Frame	Frame Height - 19mm	2
	RAW115	Frame	Frame Width	1
	RAW123	50mm Sill	Frame Width - 38mm	1
	RAW27	SG Hinge Sash	Frame Width - 28mm	1
	RAW28	SG Sash	Frame Width - 46mm	1
	RAW28	SG Sash	Frame Height - 46mm	2
	FS2	FS2 Screen Stiles	Frame Height - 79mm	2
	FS2	FS2 Screen Rails	Frame Width - 43mm	2
GLASS	HEIGHT		Frame Height - 108mm	1
	WIDTH		Frame Width - 108mm	

9. Cutting Formulas

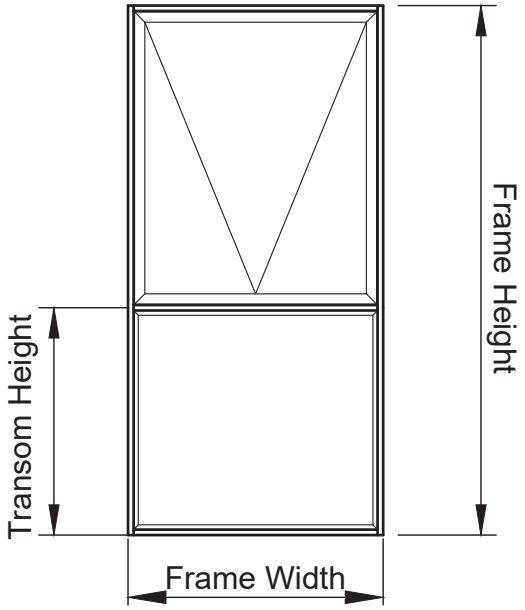
50mm Frame Double Glazed Awning - Run Through Head



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	RAW115	Frame	Frame Height - 19mm	2
	RAW115	Frame	Frame Width	1
	RAW123	50mm Sill	Frame Width - 38mm	1
	RAW43	DG Hinge Sash	Frame Width - 28mm	1
	RAW44	DG Sash	Frame Width - 46mm	1
	RAW44	DG Sash	Frame Height - 46mm	2
	FS2	FS2 Screen Stiles	Frame Height - 79mm	2
	FS2	FS2 Screen Rails	Frame Width - 43mm	2
GLASS	HEIGHT		Frame Height - 110mm	1
	WIDTH		Frame Width - 110mm	

9. Cutting Formulas

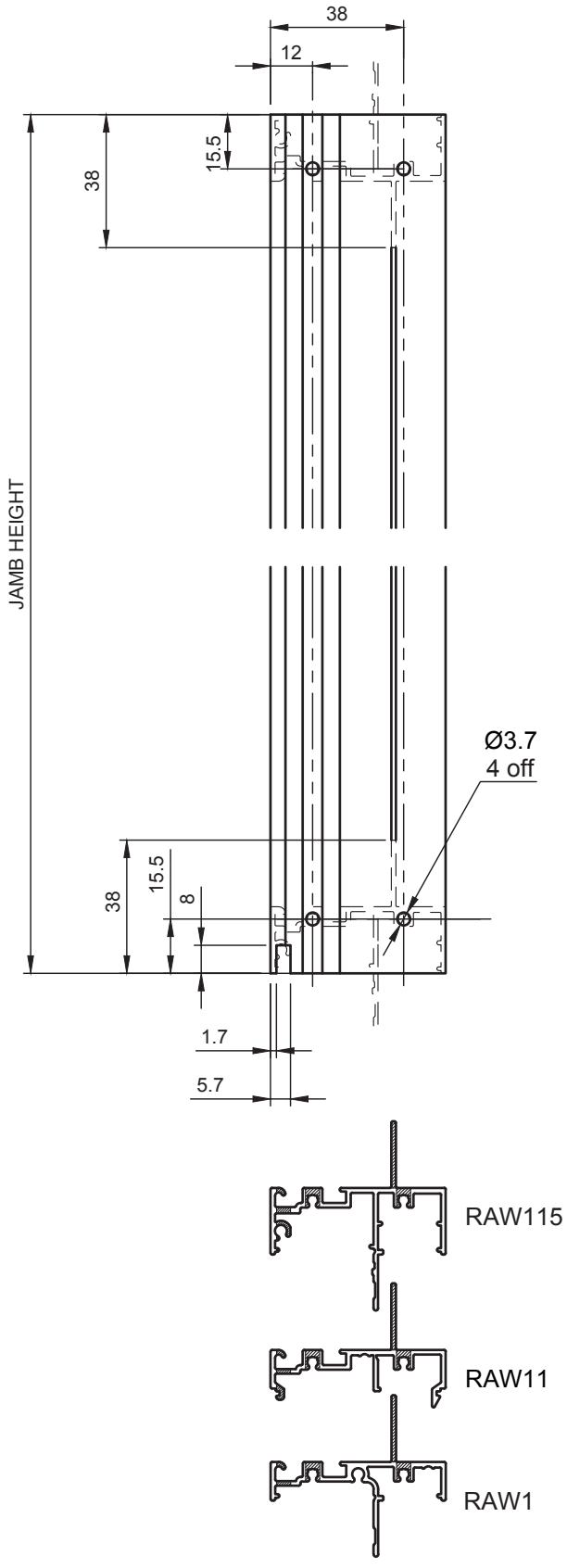
50mm Frame Single Glazed Awning with Low Lite - Run Through Head



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	RAW115	Frame	Frame Height - 19mm	2
	RAW115	Frame	Frame Width	2
	RAW115	Frame	Frame Width - 38mm	2
	RAW25	Transom	Frame Width - 38mm	1
	RAW27	SG Hinge Sash	Frame Width - 28mm	1
	RAW28	SG Sash	Frame Width - 46mm	1
	RAW28	SG Sash	Frame Height - Transom Height - 39mm	2
	RAW7	Bead	Transom Height - 30.5mm	2
	RAW7	Bead	Frame Width - 32mm	2
	FS2	FS2 Screen Stiles	Frame Height - Tramsom Height - 71mm	2
	FS2	FS2 Screen Rails	Frame Width - 43mm	2
SASH GLASS	HEIGHT		Frame Height - Transom Height - 108mm	1
	WIDTH		Frame Width - 108mm	
LOW LITE GLASS	HEIGHT		Transom Height - 42mm	1
	WIDTH		Frame Width - 50mm	

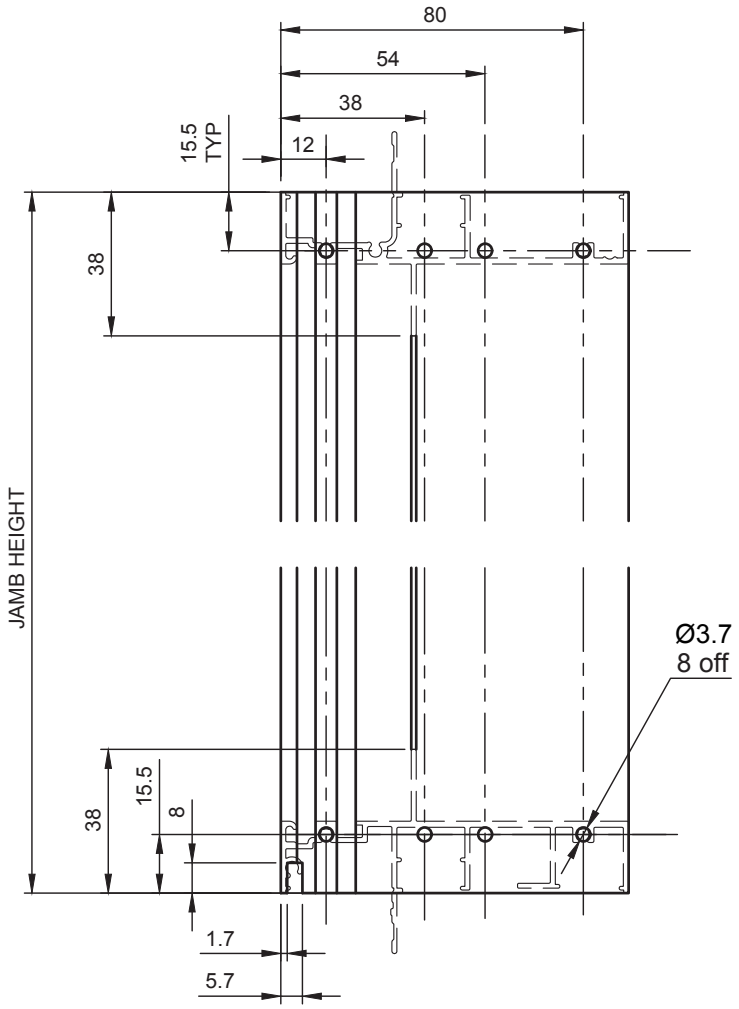
10. Manufacturing Details

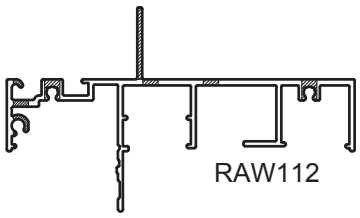
50mm Frame Preparation

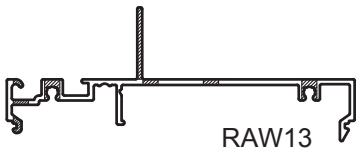


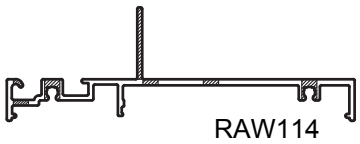
10. Manufacturing Details

92mm Frame Preparation



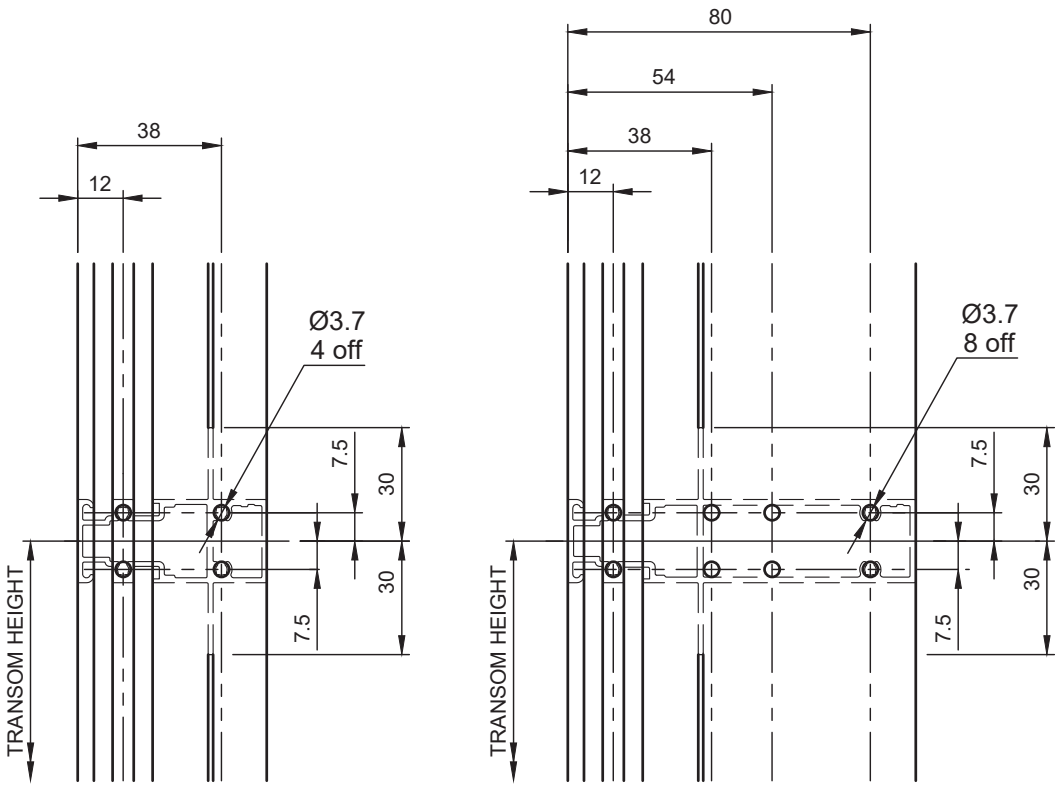


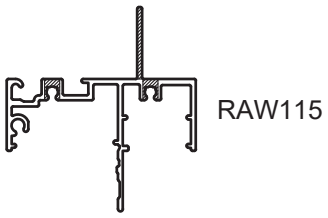


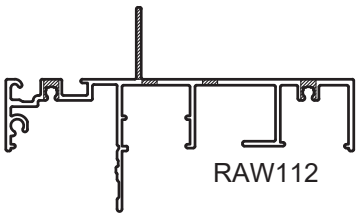


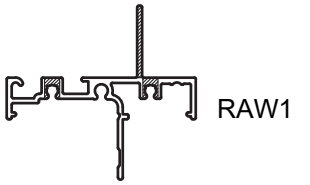
10. Manufacturing Details

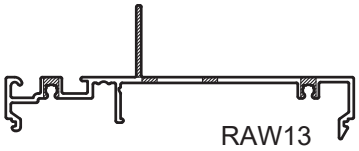
Frame Preparation for Mullion / Transom

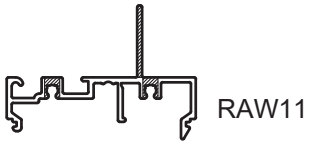


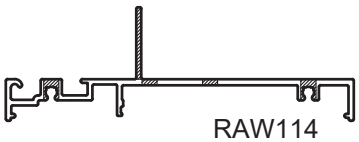






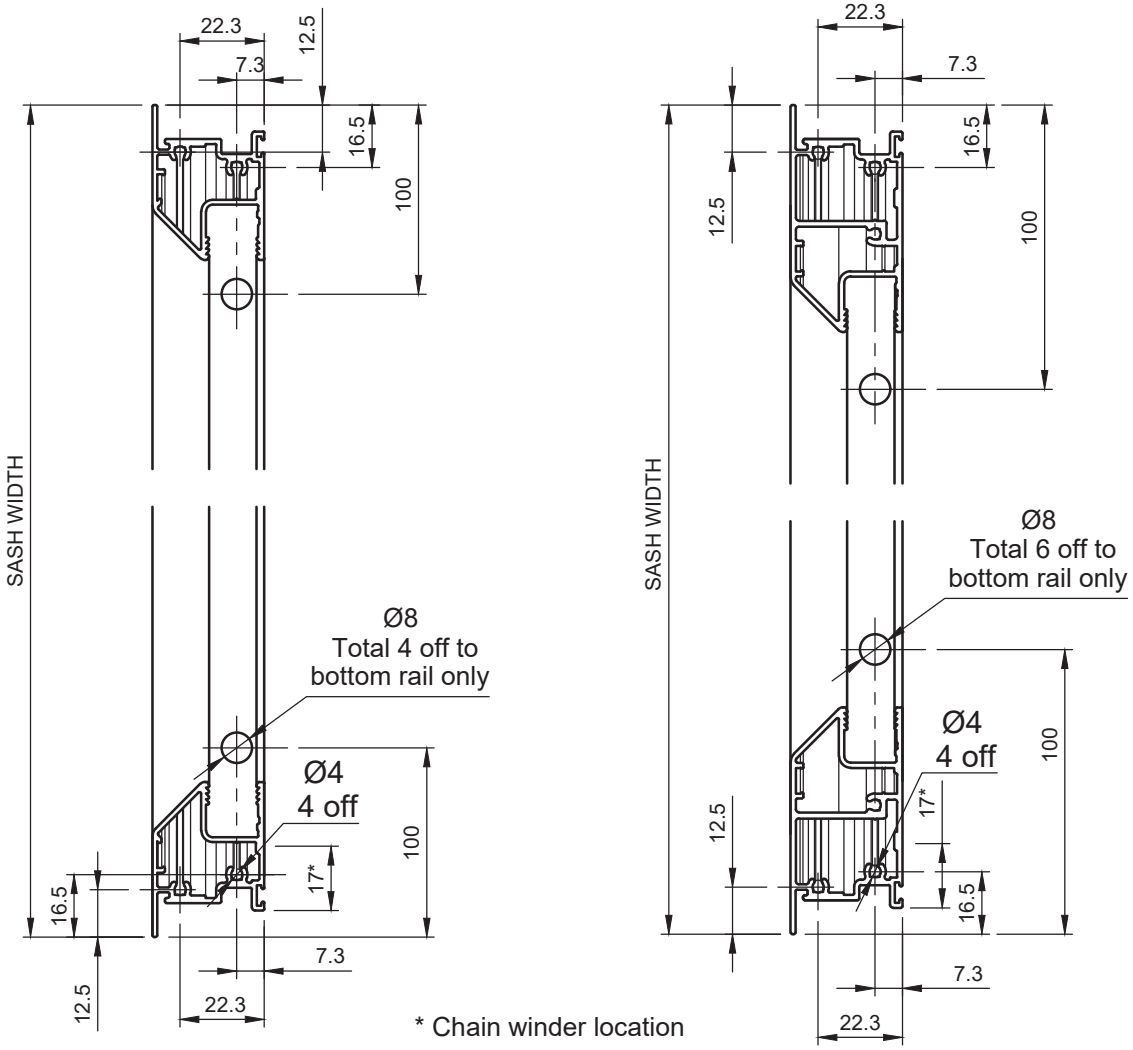


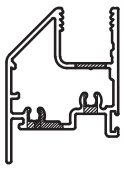




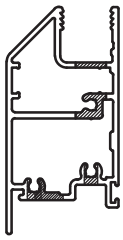
10. Manufacturing Details

Bottom Sash Rail Preparation

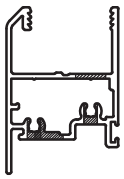




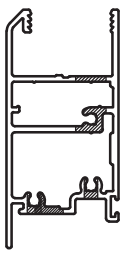
RAW28



RAW30



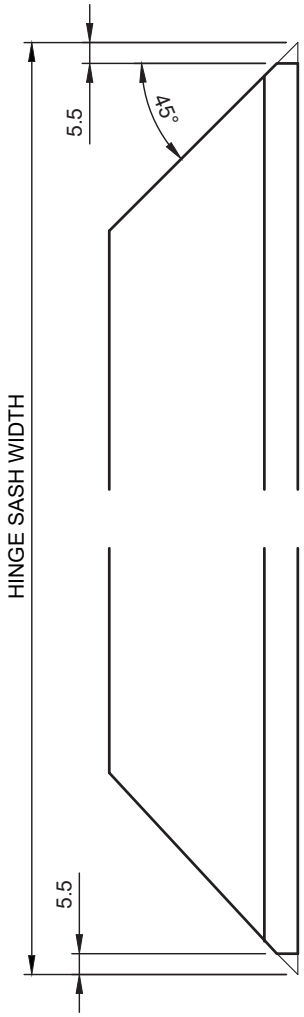
RAW44

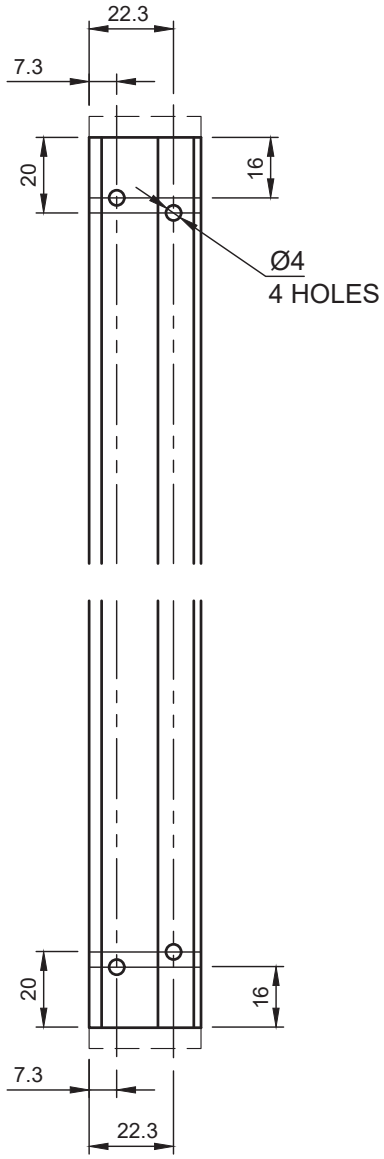


RAW42

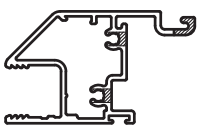
10. Manufacturing Details

Hinge Sash Rail Preparation

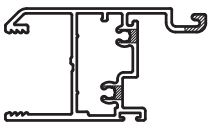




NOTE:
CUT BACK HINGE SASH
ONLY AS SHOWN



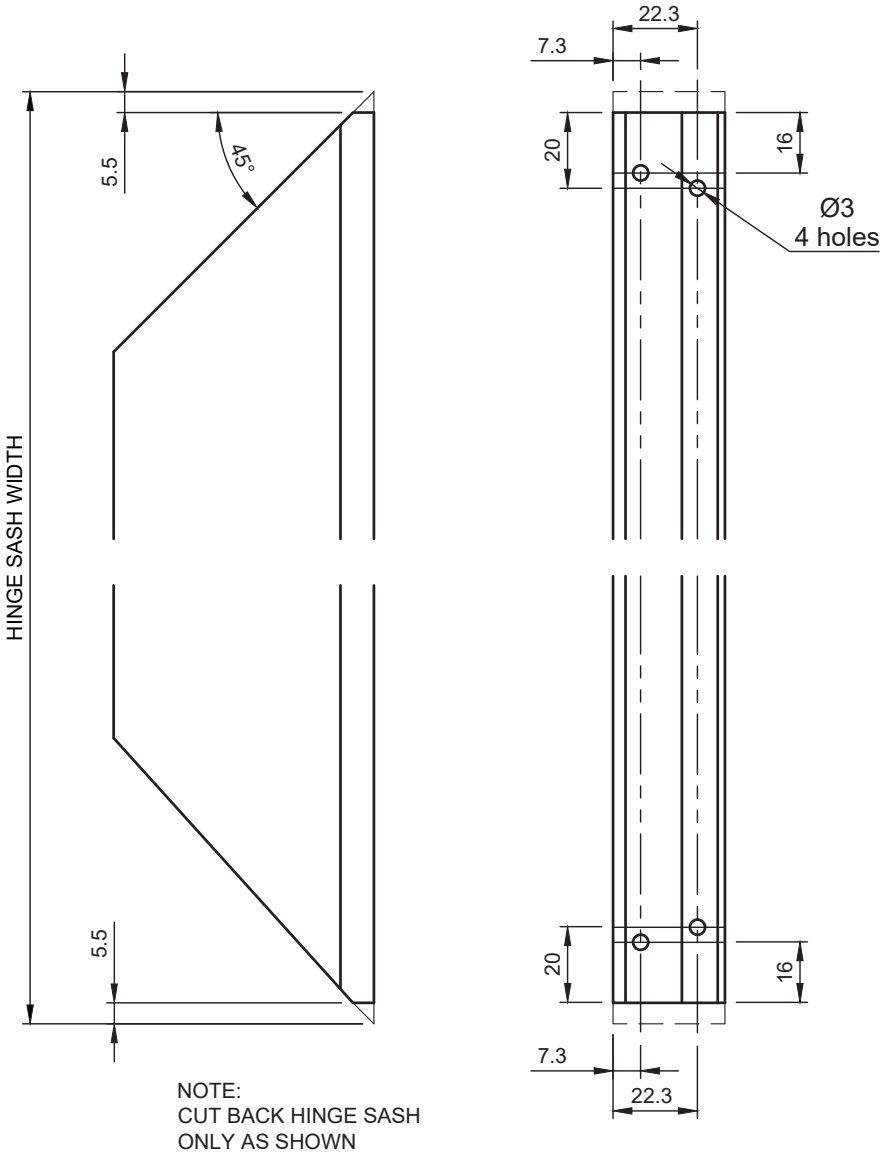
RAW27



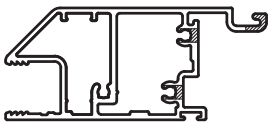
RAW43

10. Manufacturing Details

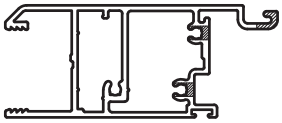
Wide Hinge Sash Rail Preparation



NOTE:
CUT BACK HINGE SASH
ONLY AS SHOWN



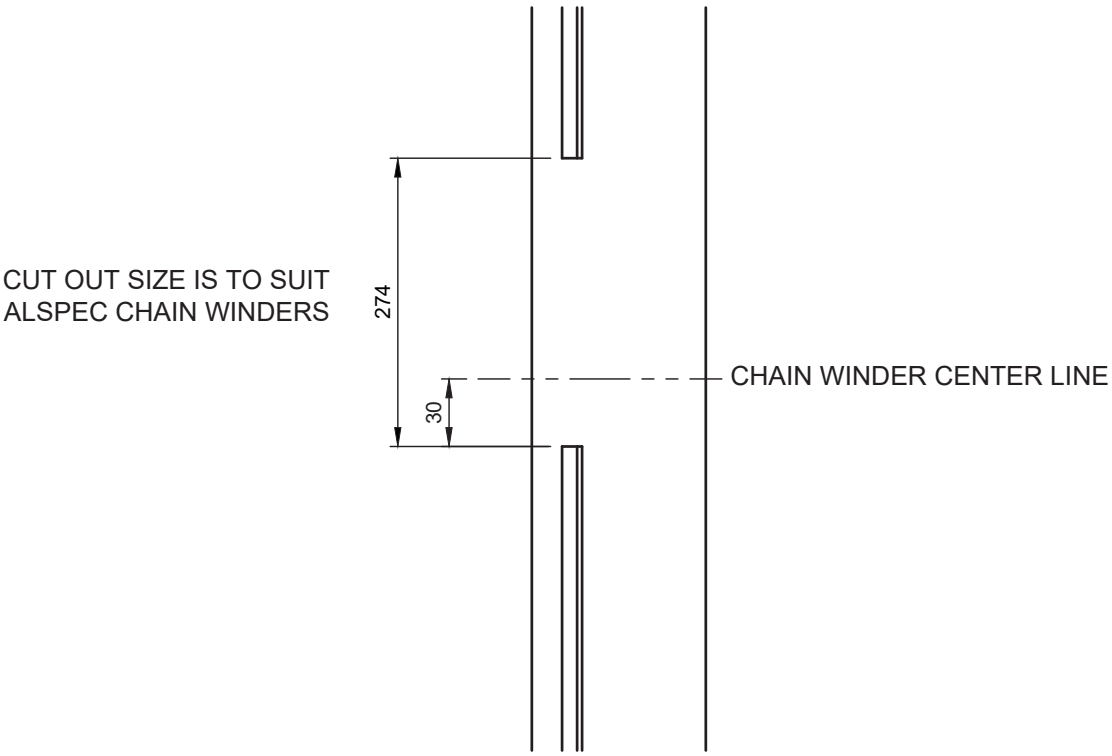
RAW29

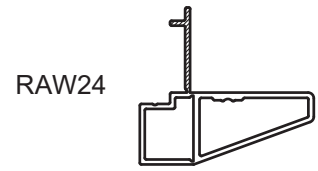


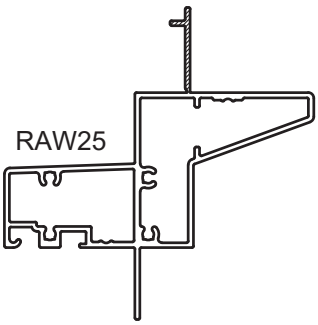
RAW41

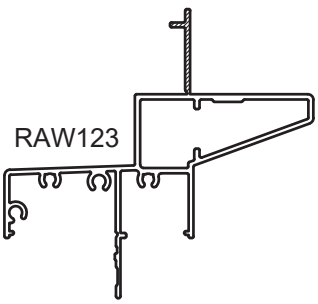
10. Manufacturing Details

Chain Winder Preparation - 50mm Frame



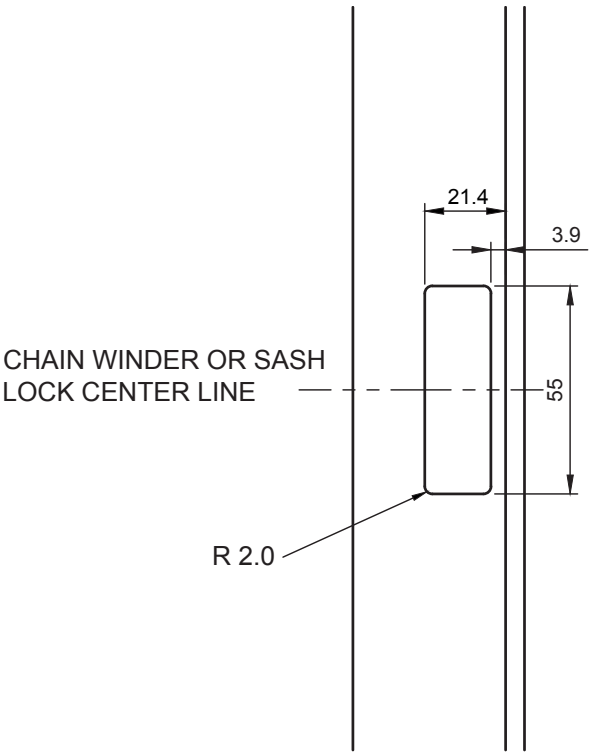


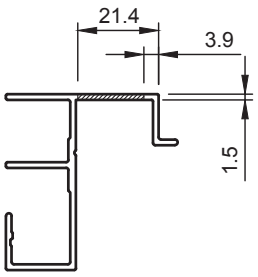




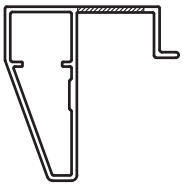
10. Manufacturing Details

Chain Winder & Sash Lock Preparation - 92mm Frame

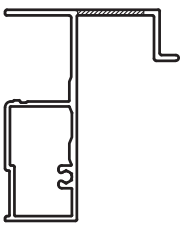




ASW43



RAW38

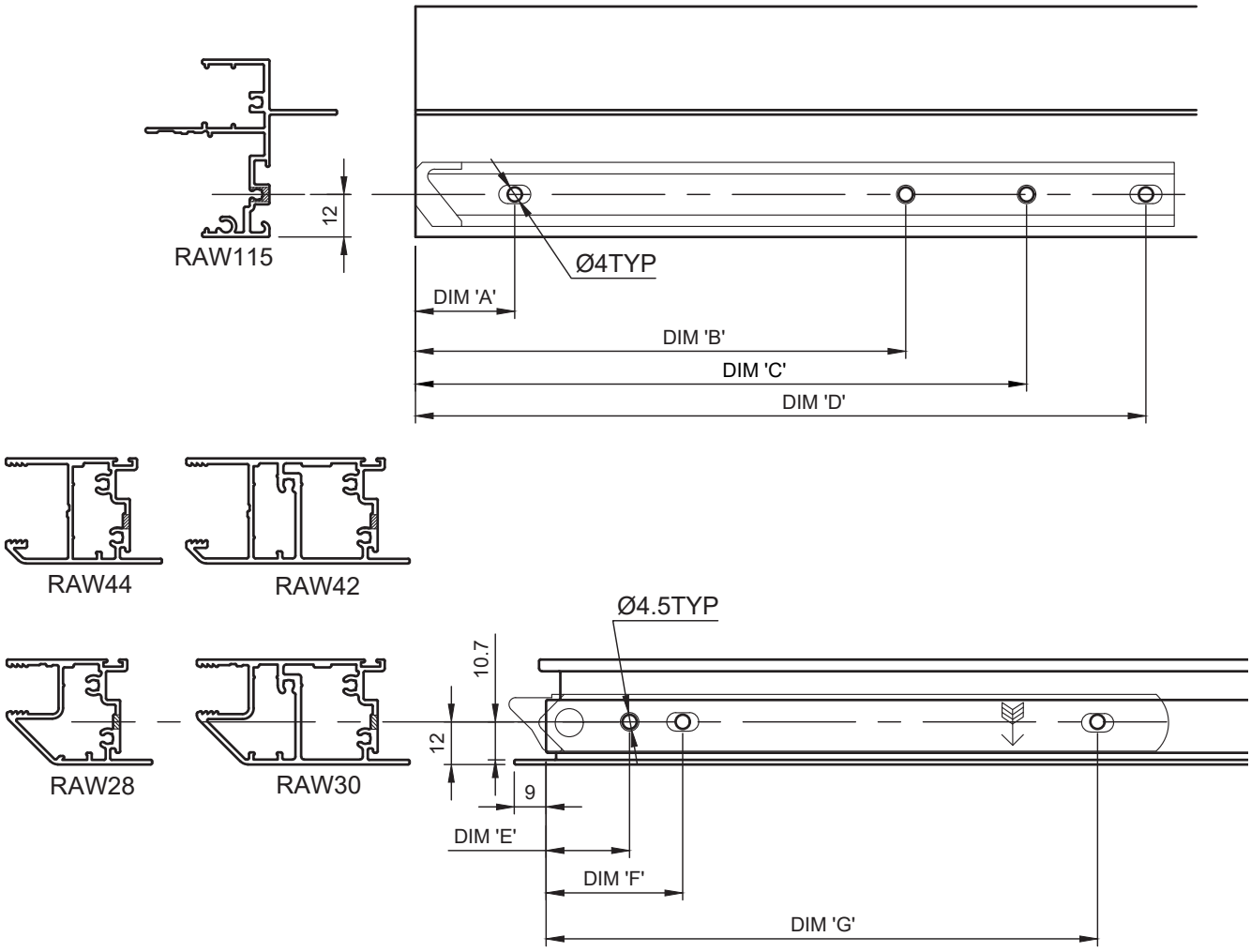


RAW46

NOTE: PUNCH TOOLS MAY CROP 50mm IN SIZE WHICH WILL REQUIRE A DOUBLE PROCESS CROP TO ACHIEVE THE 55mm SIZE REQUIRED FOR THE SASH LOCK APPLICATION.

10. Manufacturing Details

Casement Stay Frame & Sash Preparation



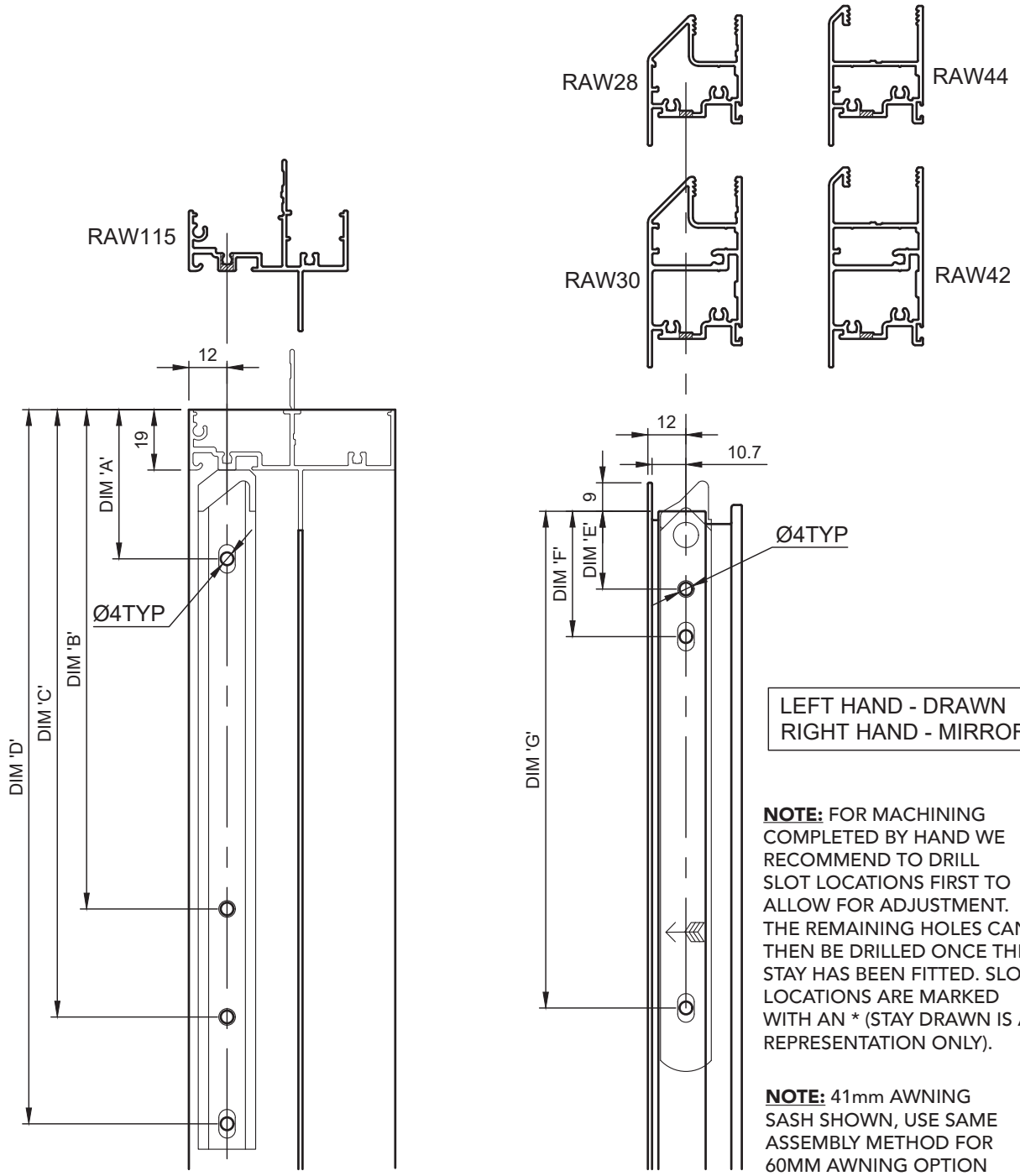
LEFT HAND - DRAWN
RIGHT HAND - MIRROR

					FRAME HOLES				SASH HOLES		
CASEMENT	STAY		CAVITY	MAX KG	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	DIM 'E'	DIM 'F'	DIM 'G'
	1377935	BP12SH 305mm	14mm	24kg	30 *	220	-	302 *	23.5	66.5 *	247.5 *
	1377936	BP16SH 414mm	14mm	30kg	30 *	315	-	405 *	23.5	124 *	333.5 *

NOTE: FOR MACHINING COMPLETED BY HAND WE RECOMMEND TO DRILL SLOT LOCATIONS FIRST TO ALLOW FOR ADJUSTMENT. THE REMAINING HOLES CAN THEN BE DRILLED ONCE THE STAY HAS BEEN FITTED. SLOT LOCATIONS ARE MARKED WITH AN * (STAY DRAWN IS A REPRESENTATION ONLY).

10. Manufacturing Details

Awning Stay Frame & Sash Preparation



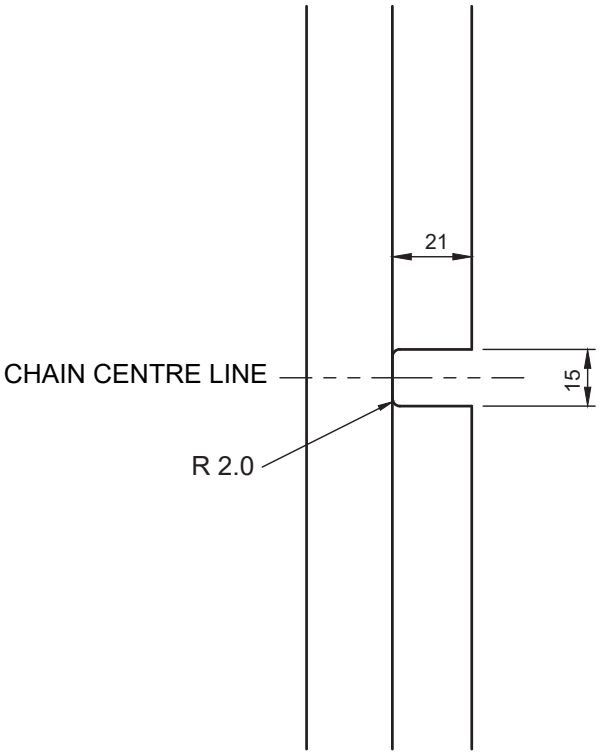
LEFT HAND - DRAWN
RIGHT HAND - MIRROR

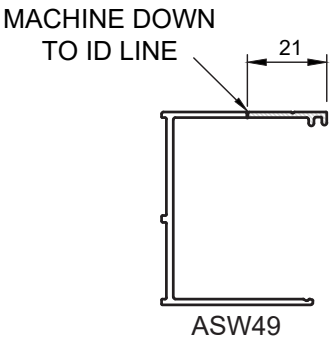
NOTE: FOR MACHINING COMPLETED BY HAND WE RECOMMEND TO DRILL SLOT LOCATIONS FIRST TO ALLOW FOR ADJUSTMENT. THE REMAINING HOLES CAN THEN BE DRILLED ONCE THE STAY HAS BEEN FITTED. SLOT LOCATIONS ARE MARKED WITH AN * (STAY DRAWN IS A REPRESENTATION ONLY).

NOTE: 41mm AWNING SASH SHOWN, USE SAME ASSEMBLY METHOD FOR 60MM AWNING OPTION

					FRAME HOLES				SASH HOLES		
	STAY		CAVITY	MAX KG	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	DIM 'E'	DIM 'F'	DIM 'G'
AWNING	1377930	BP8TH 203.5mm	13mm	12kg	47 *	159	-	225 *	24.5	39.5 *	156.5 *
	1377931	BP10TH 254mm	13mm	16kg	49 *	229	-	281 *	24.5	53.5 *	178.5 *
	1377932	BP12TH 305mm	13mm	20kg	49 *	239	-	321 *	24.5	67.5 *	200.5 *
	1377933	BP16TH 402.5mm	13mm	24kg	49 *	334	-	424 *	24.5	125 *	251.5 *
	1377934	BP20TH 502.5mm	13mm	28kg	49 *	224	369	525 *	24.5	194.5 *	295.5 *
	1377937	BP24TH 602mm	13mm	35kg	49 *	244	435	627 *	24.5	244.5 *	346.5 *

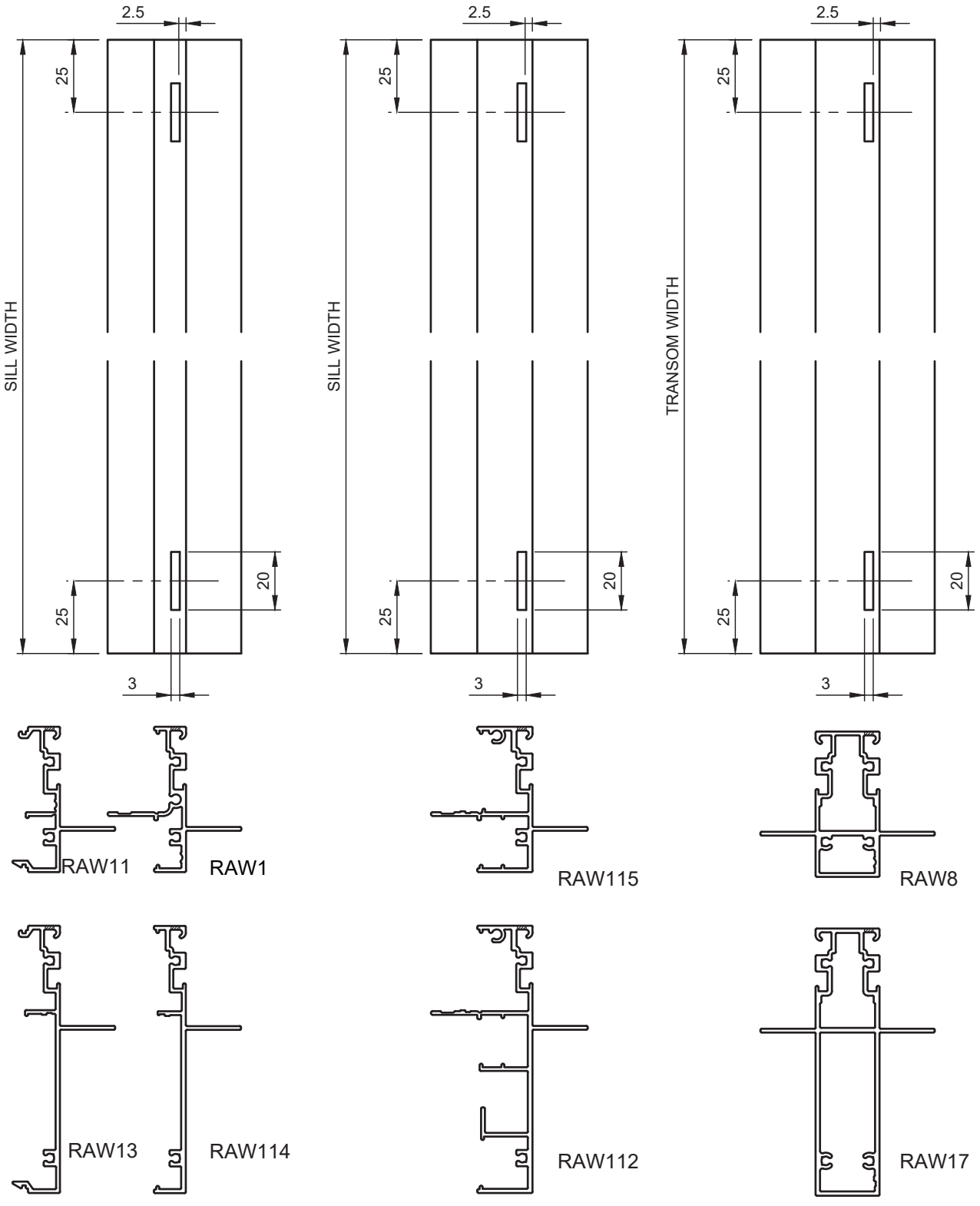
Concealed Winder Base Preparation - ASW49





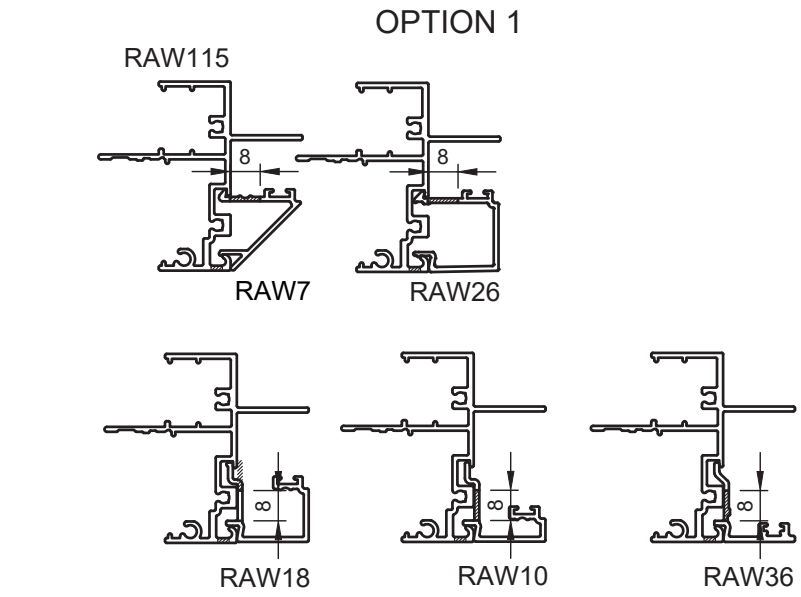
10. Manufacturing Details

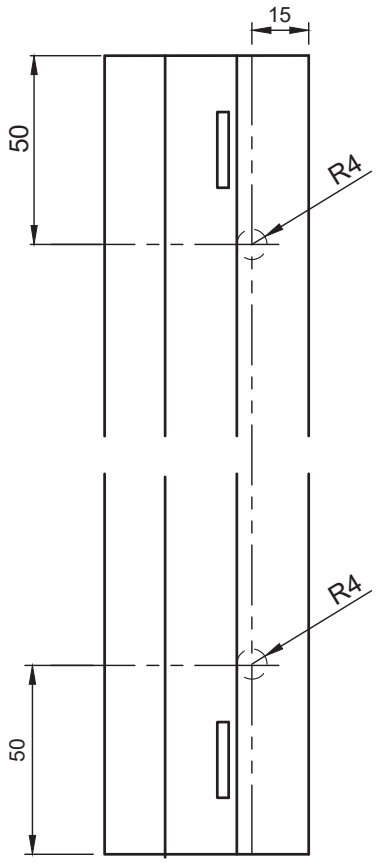
Fixed Lite Frame - Drainage Preparation



Note: This is not available in the standard tool. An optional tool can be available.

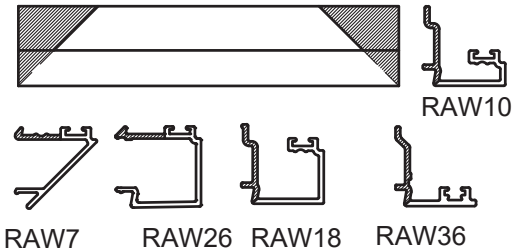
Fixed Lite Bead - Drainage Preparation





OPTION 2

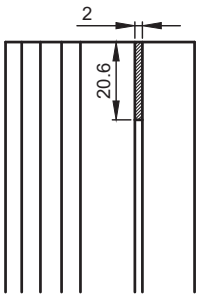
ALTERNATE OPTION IS TO TRIM OF ENDS OF BOTTOM BEAD TO ALLOW WATER TO EGRESS

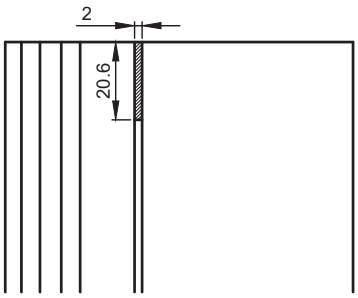


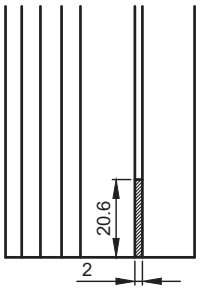
Note: This is not available in the standard tool. An optional tool can be available for RAW7 & RAW26.

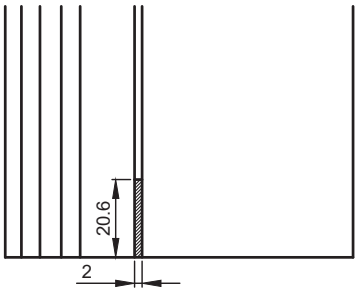
11. Assembly Details

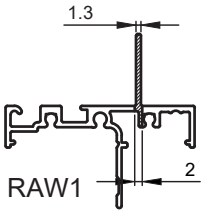
Frame Preparation for Run Through Head / Sill or Transom / Mullion



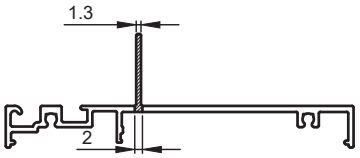




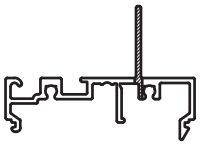




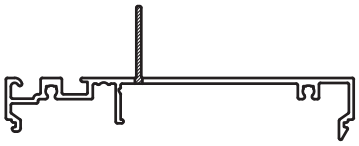
RAW1



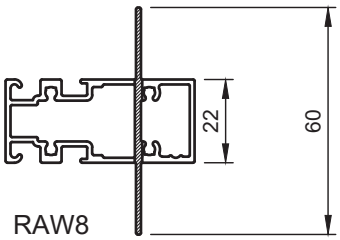
RAW114



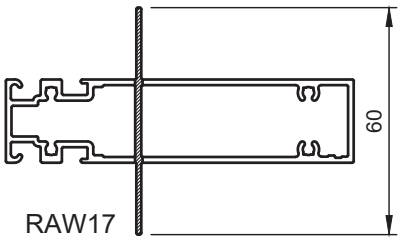
RAW11



RAW13



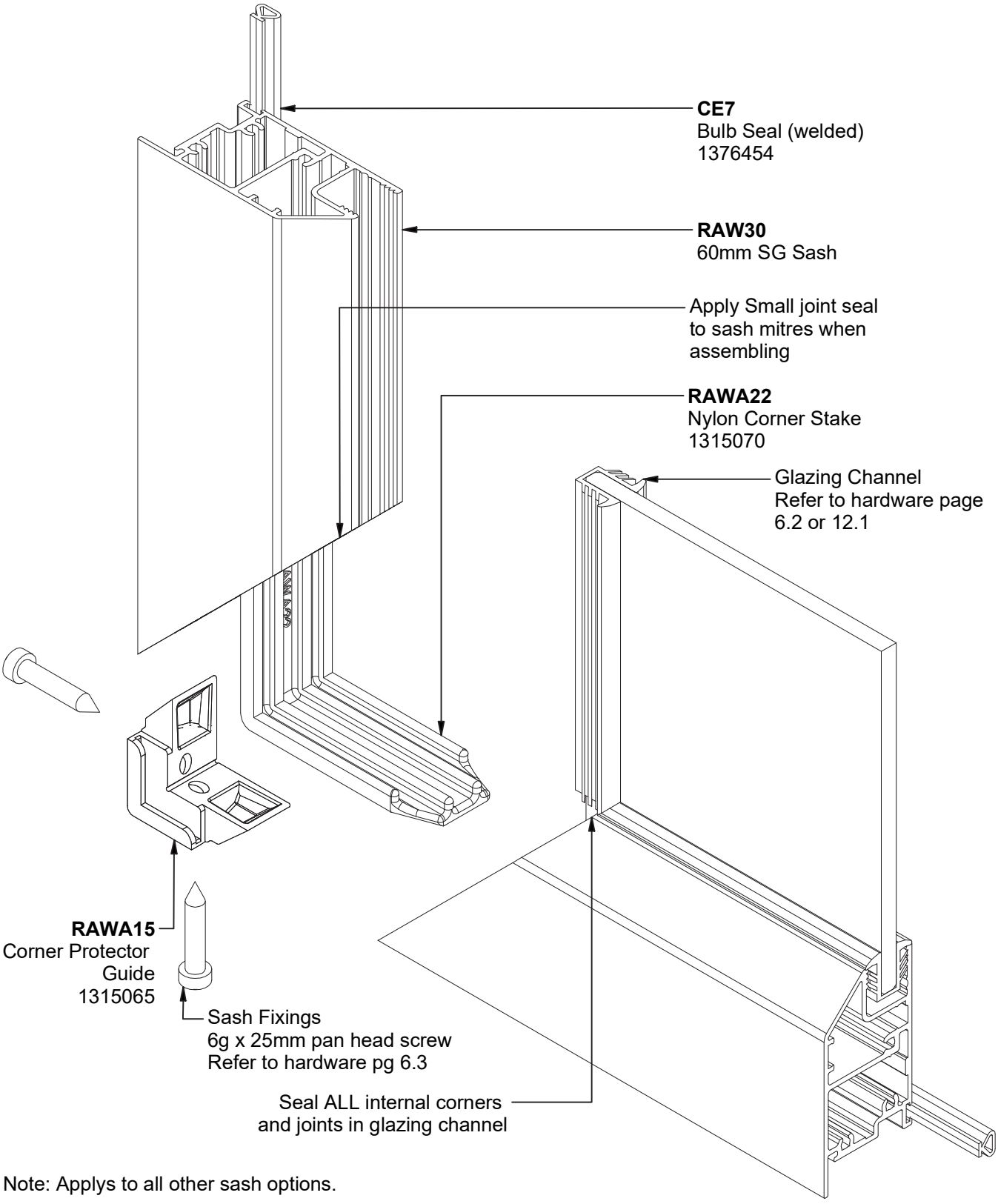
RAW8



RAW17

11. Assembly Details

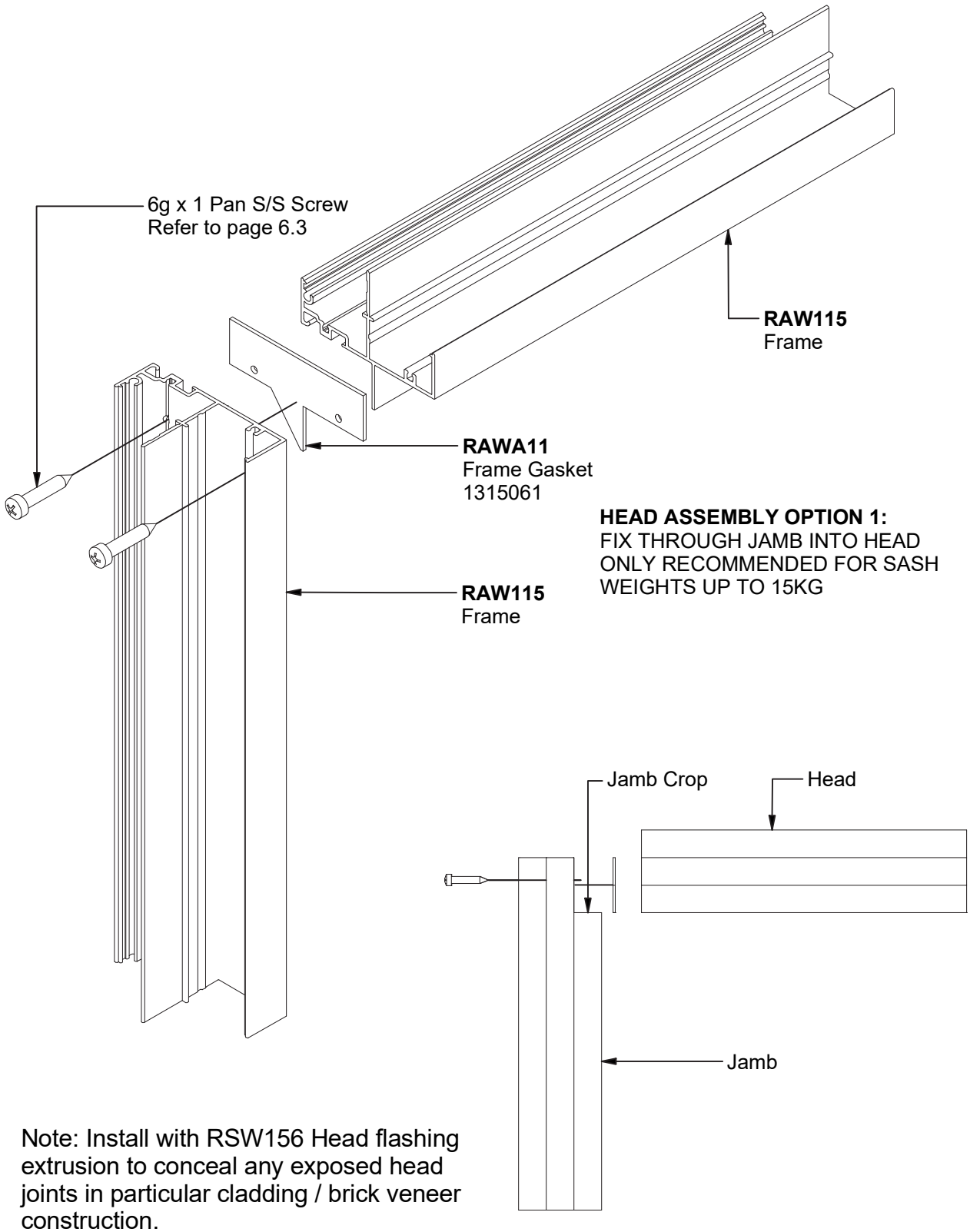
Bottom Sash Corner Assembly



Note: Applys to all other sash options.

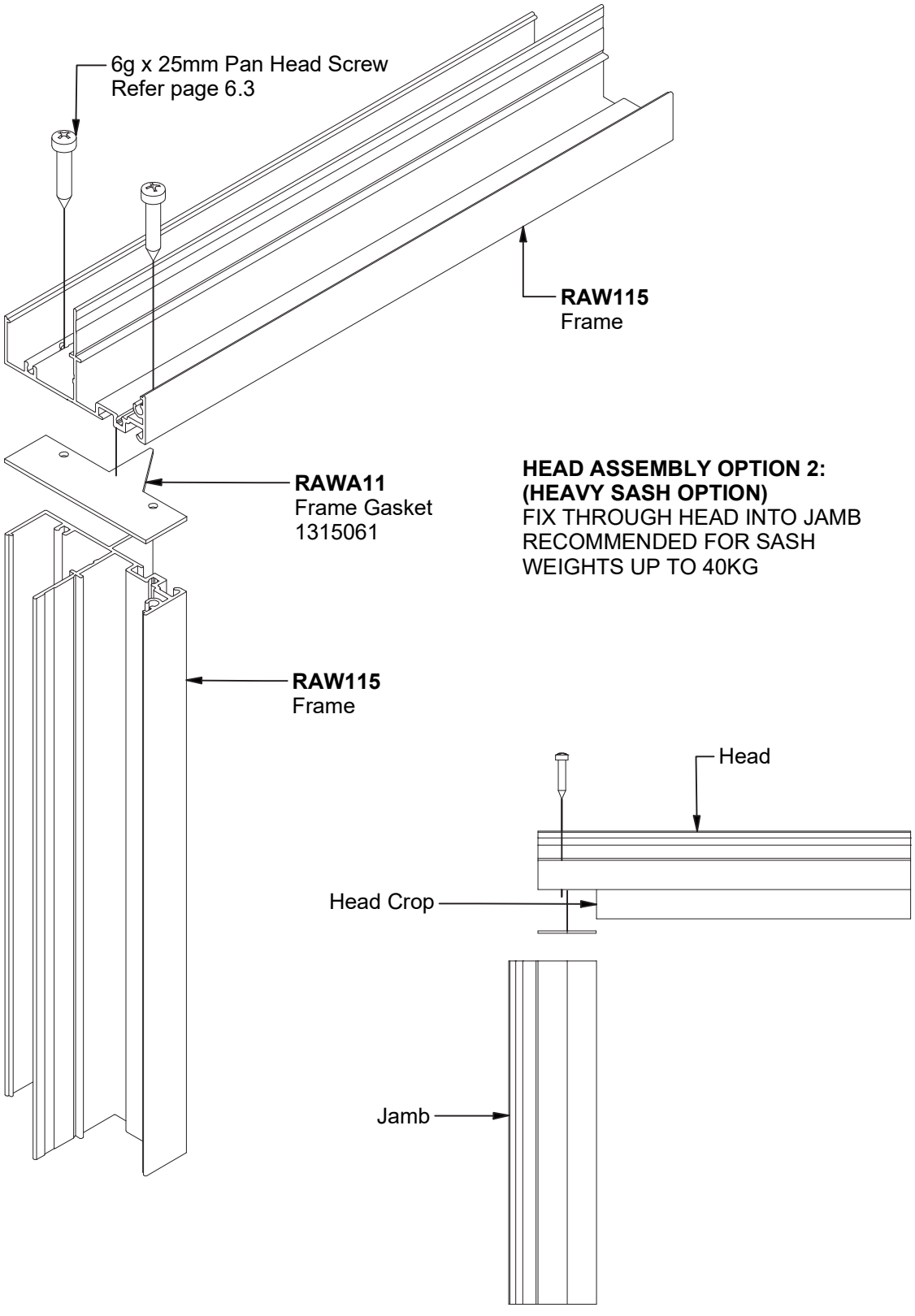
Ensure glazing channel assembly is started from the top center sash to prevent water ingress

Head Assembly Option 1 (Jamb Run Through)

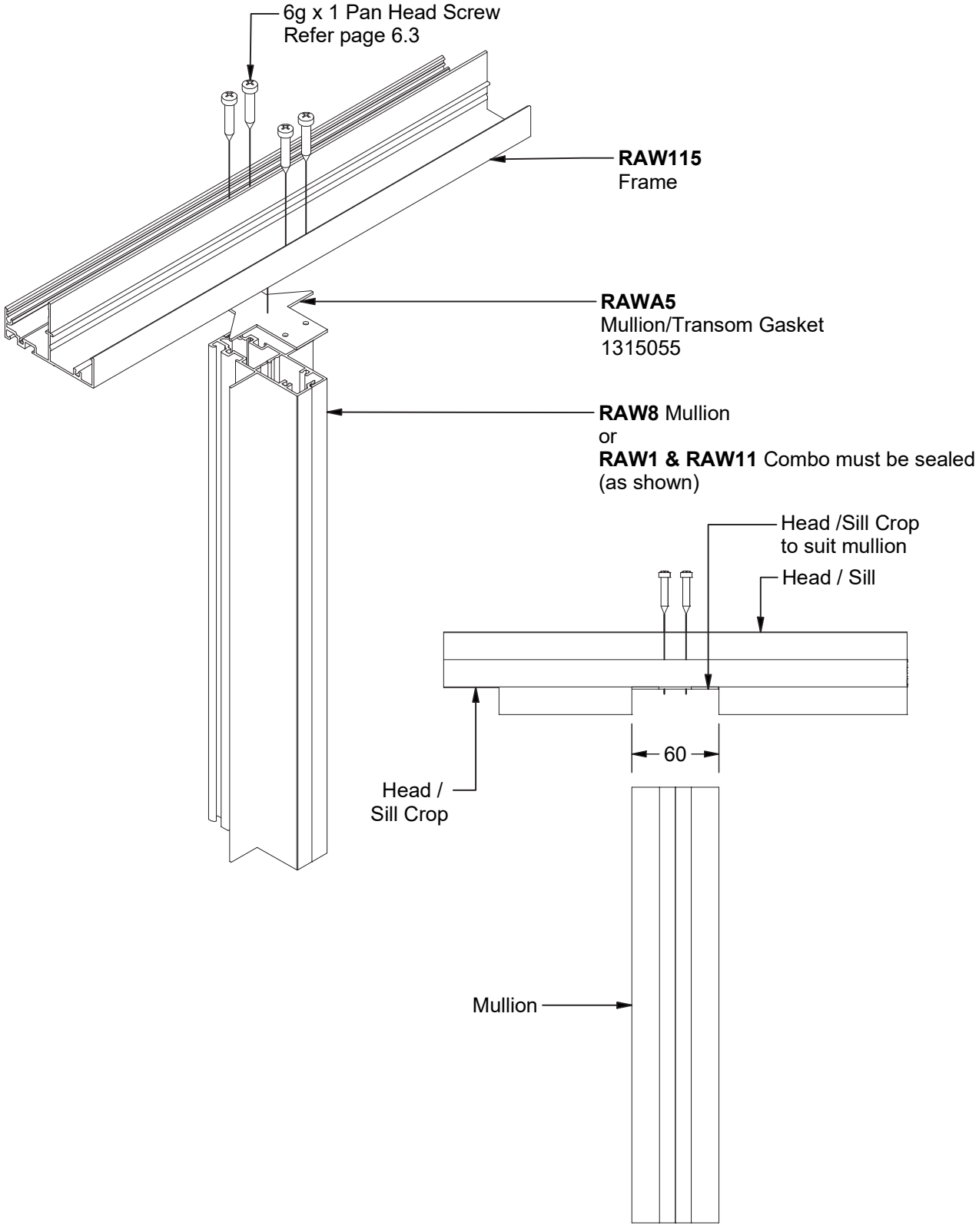


Note: Install with RSW156 Head flashing extrusion to conceal any exposed head joints in particular cladding / brick veneer construction.

Head Assembly Option 2 (Head Run Through)

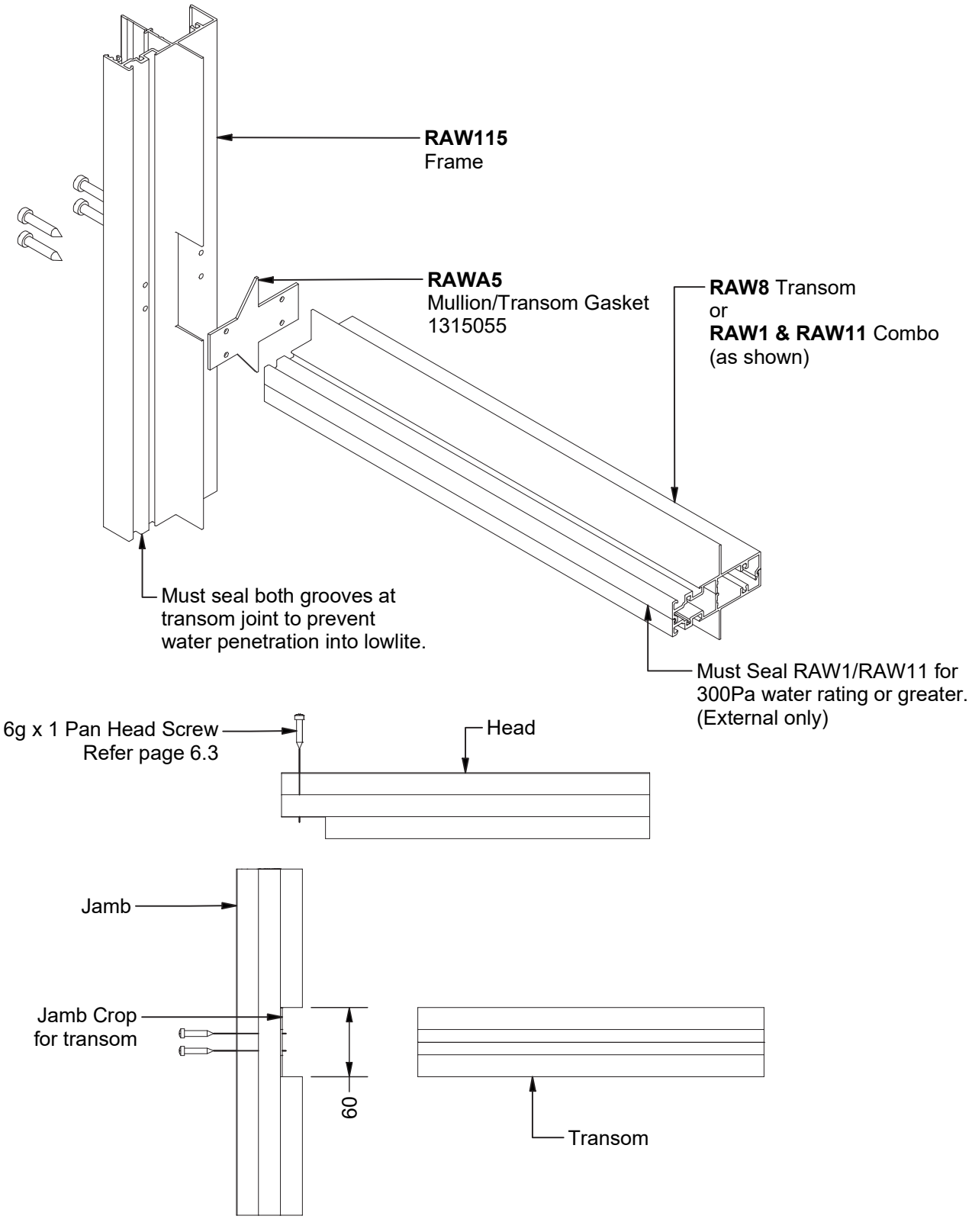


Head Mullion Assembly (Head Run Through)

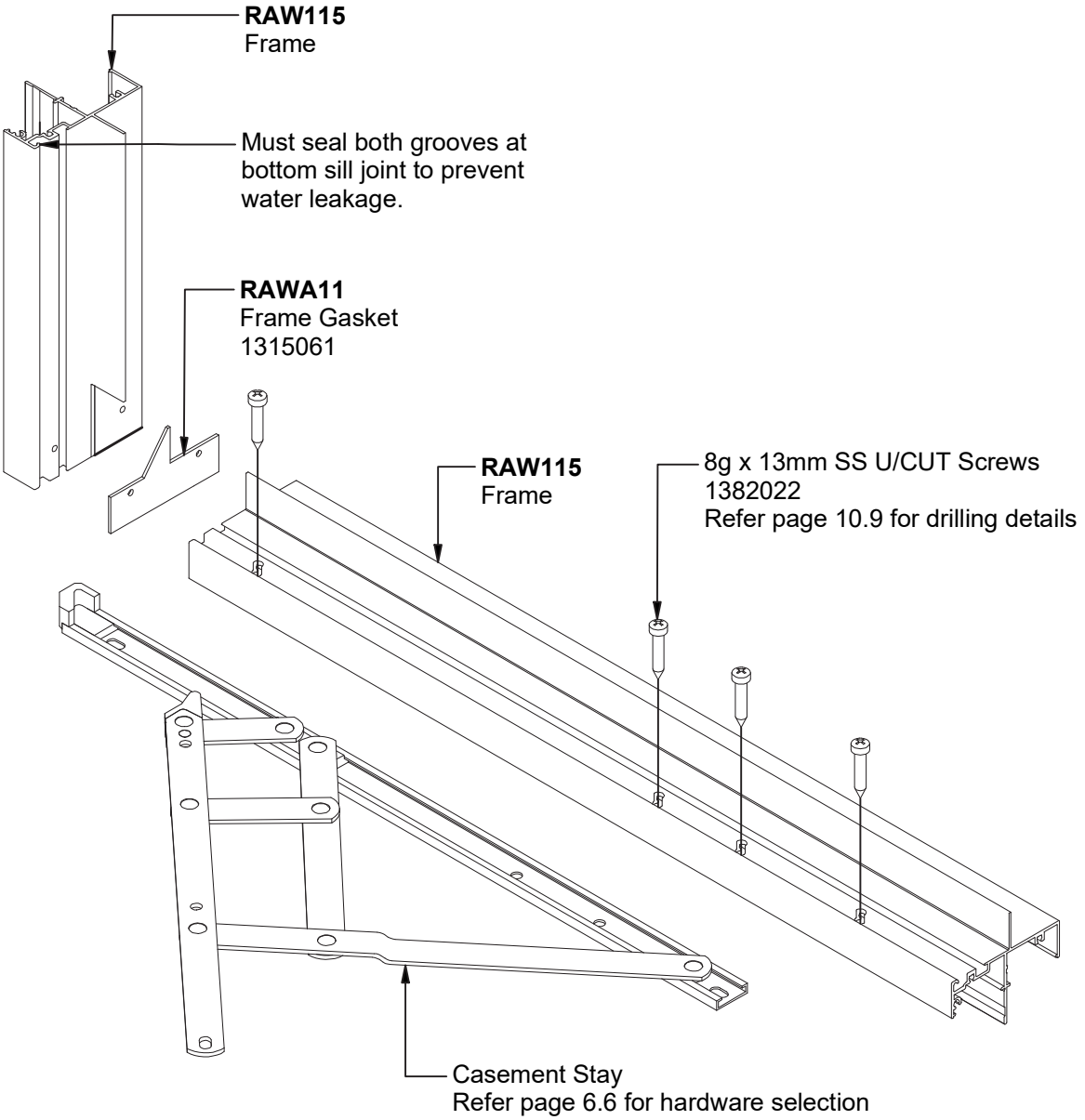


11. Assembly Details

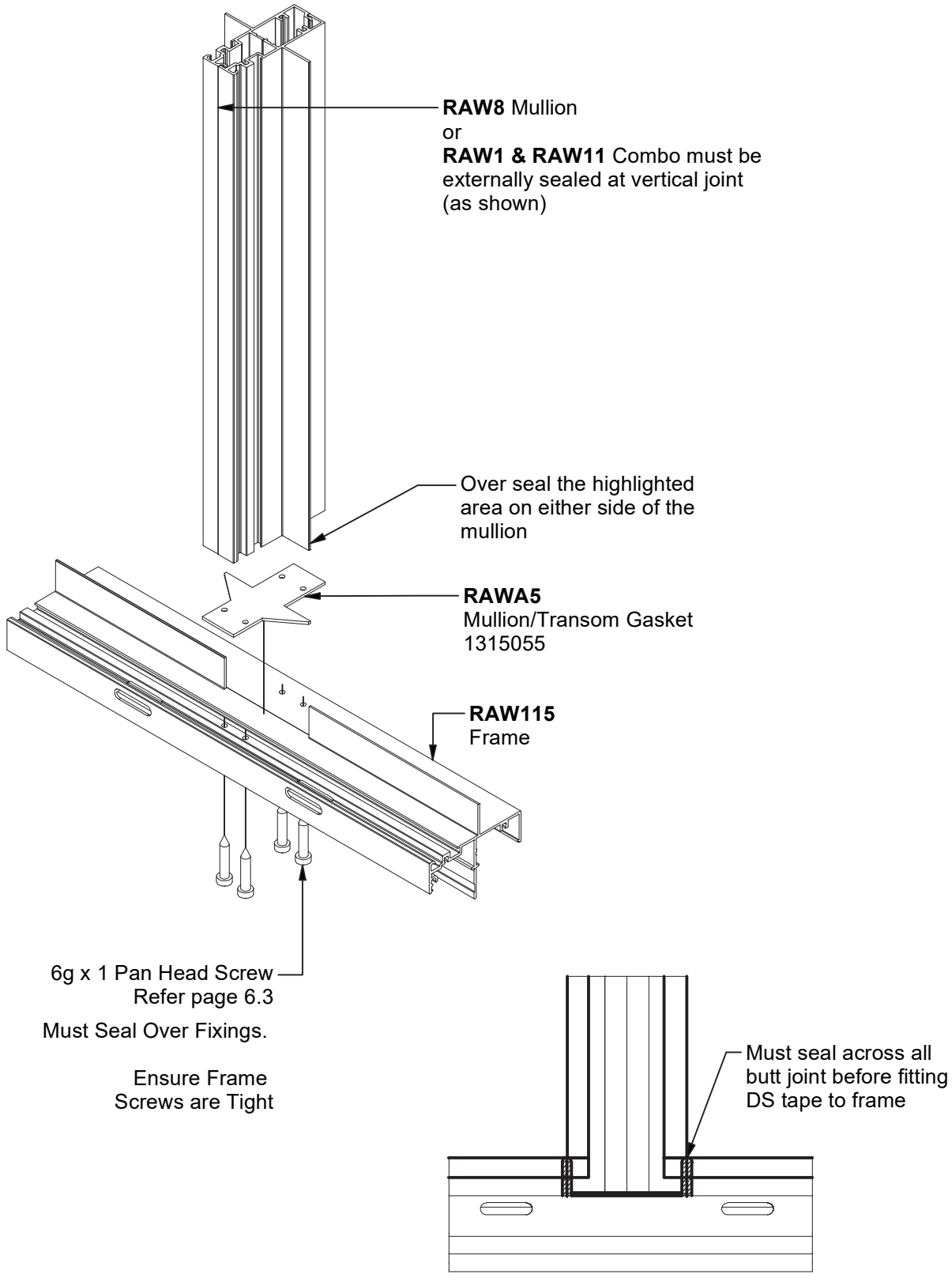
Jamb / Transom Assembly



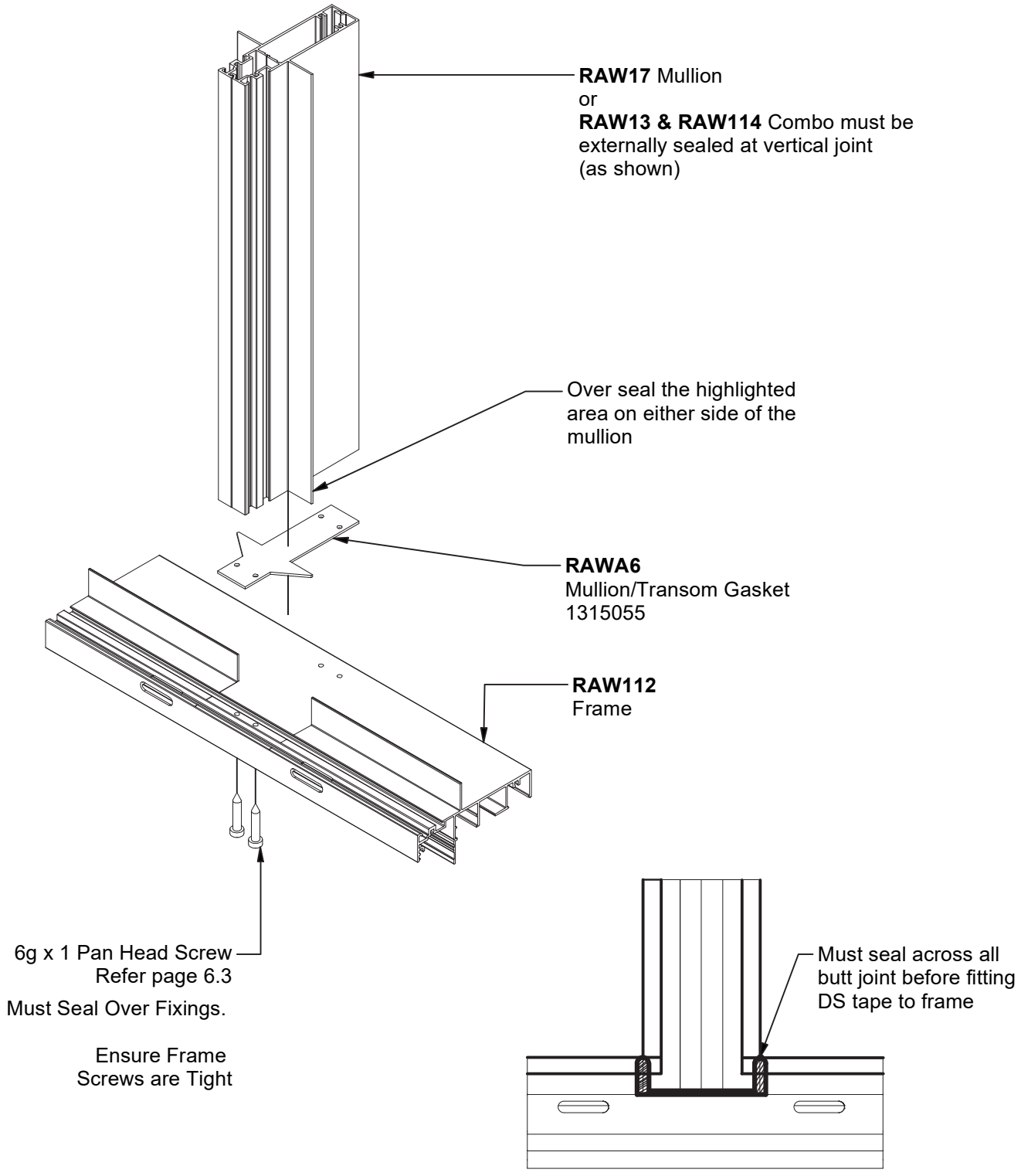
Casement Bottom Corner Assembly



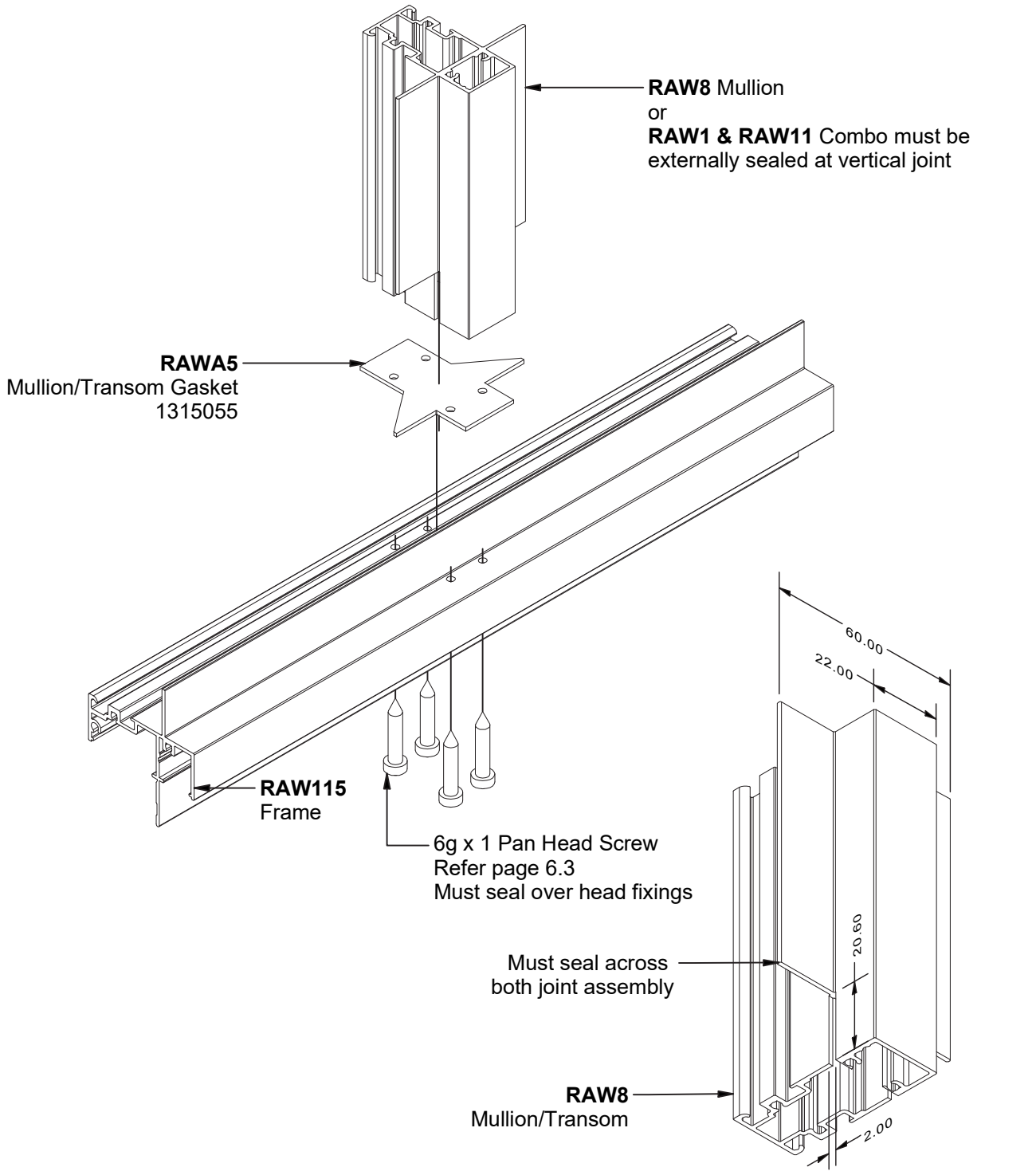
50mm Run Through Sill Assembly Option 1



92mm Run Through Sill Assembly Option 1

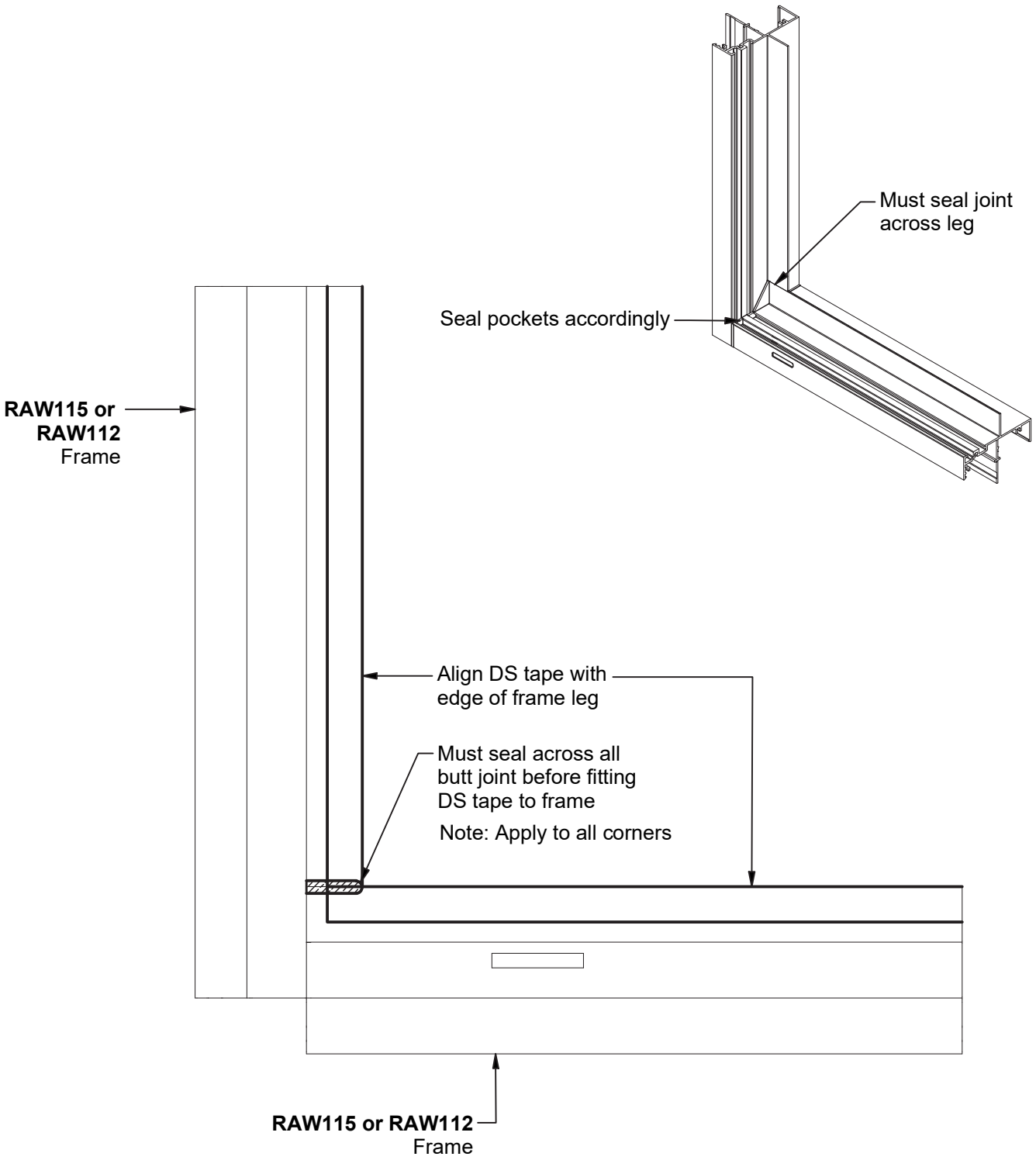


Run Through Sill Assembly Option 2



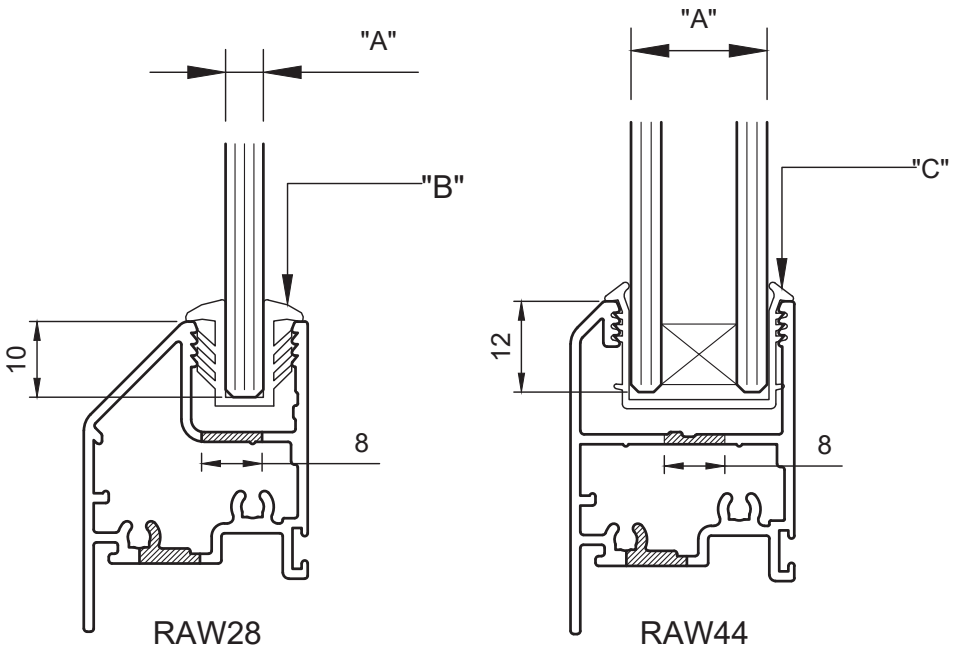
Refer to page 10.14 for machining details

Frame Corner Sealing Detail



12. Glazing Details

Single & Double Glazed Sash



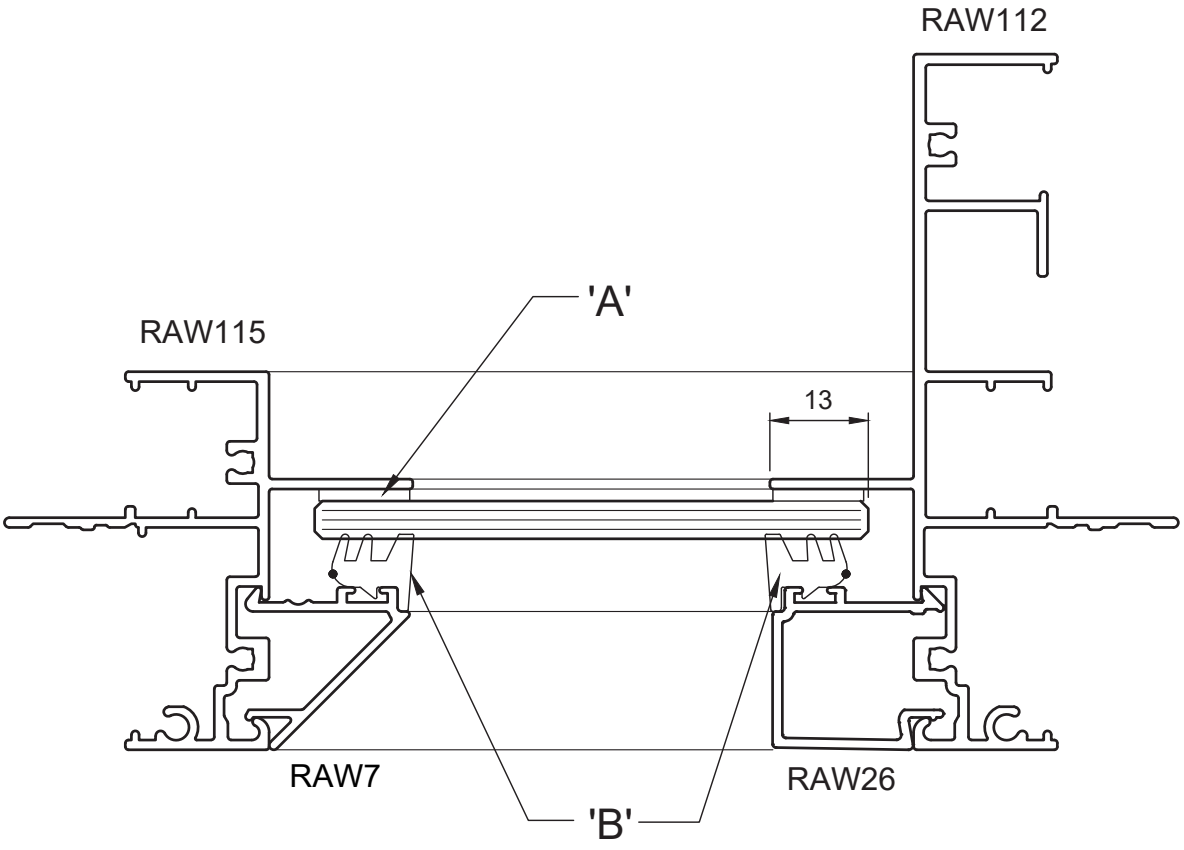
Note: 8mm drainage hole required only in bottom rail approx 100mm in form corner & glazing channel sealed at all corners during assembly.

'A' GLASS THICKNESS	'B' GLAZING CHANNEL		'C' GLAZING CHANNEL	
	REF.	CODE	REF.	CODE
4mm	GR59	1376028	-	
5mm	GR60	1376033	-	
6 / 6.38mm	GR61	1376044	-	
8 / 8.38mm	GR62	1376029	-	
10 / 10.38mm	GR63	1376035	-	
12.38mm	-		GR64	1313088
13.52mm	-		GR75	1376153
17.5mm	-		GR71	1376144
18mm	-		GR52	1376094
18.5mm	-		GR69	1376141

Note: Glazing detail also suits RAW30 & RAW42 60mm sash option

12. Glazing Details

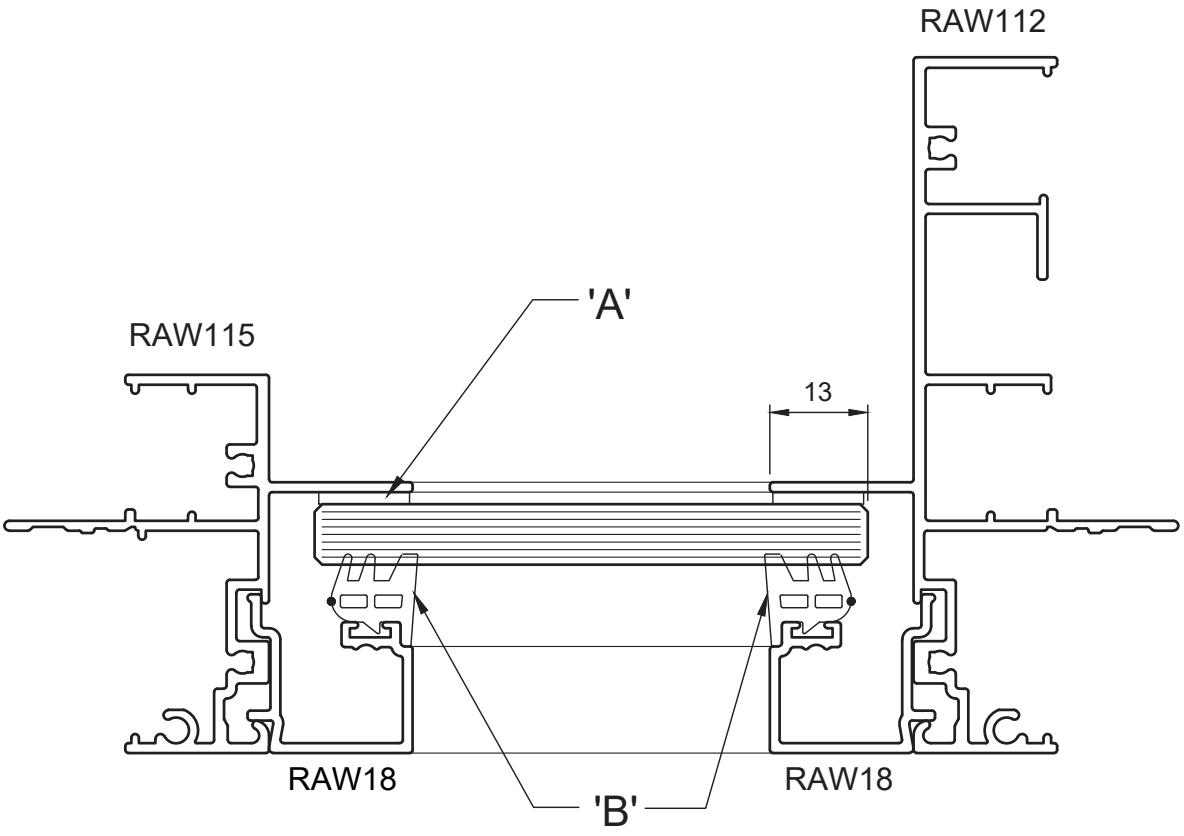
50mm & 92mm Frame Single Glazed



	'A' GLAZING TAPE		'B' GLAZING WEDGE	
GLASS THICKNESS	REF.	CODE	ID COLOUR	CODE
4mm	1.6 x 12mm	1385514	GR48 - ORANGE	1313060
5mm	1.6 x 12mm	1385514	GR47 - RED	1313059
6mm	1.6 x 12mm	1385514	GR46 - YELLOW	1313058
6.38mm	1.6 x 12mm	1385514	GR45 - BLUE	1313057
7.5mm	1.6 x 12mm	1385514	GR44 - WHITE	1313056

12. Glazing Details

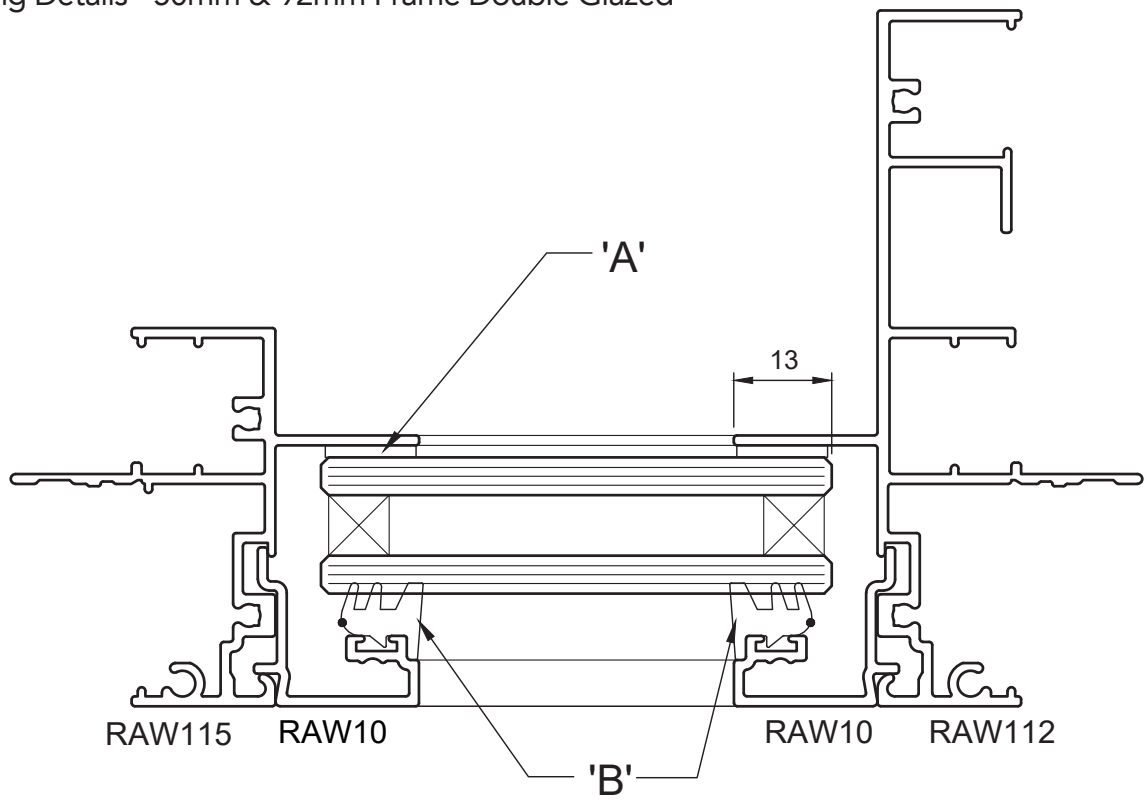
50mm & 92mm Frame Single Glazed Thick Glass



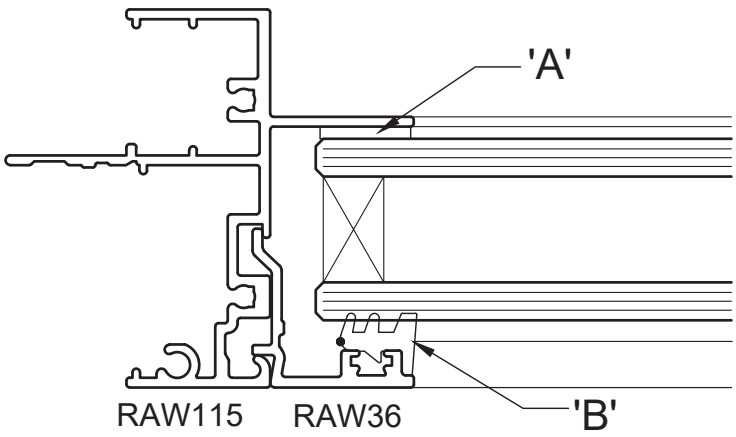
	'A' GLAZING TAPE		'B' GLAZING WEDGE	
GLASS THICKNESS	REF.	CODE	ID COLOUR	CODE
8mm	1.6 x 12mm	1385514	GR48 - ORANGE	1313060
8.76mm	1.6 x 12mm	1385514	GR47 - RED	1313059
9.52mm	1.6 x 12mm	1385514	GR46 - YELLOW	1313058
10mm	1.6 x 12mm	1385514	GR45 - BLUE	1313057
10.38mm	1.6 x 12mm	1385514	GR45 - BLUE	1313057
10.76mm	1.6 x 12mm	1385514	GR44 - WHITE	1313056
11.52mm	1.6 x 12mm	1385514	GR44 - WHITE	1313056
12.38mm	1.6 x 12mm	1385514	GR43 - BROWN	1313055

12. Glazing Details

Glazing Details - 50mm & 92mm Frame Double Glazed



	'A' GLAZING TAPE		'B' GLAZING WEDGE	
GLASS THICKNESS	REF.	CODE	ID COLOUR	CODE
18mm	1.6 x 12mm	1385514	GR46 - YELLOW	1313058
18 -18.76mm	1.6 x 12mm	1385514	GR46 - YELLOW	1313058



	'A' GLAZING TAPE		'B' GLAZING WEDGE	
GLASS THICKNESS	REF.	CODE	ID COLOUR	CODE
24mm *	1.6 x 12mm	1385514	GR44 - WHITE	1313056

* Note: Must glaze to bottom bead first with setting block

FRAMING

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

The **Carinya Classic Awning Window** 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 **Carinya Classic Awning Window** 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 **Carinya Classic Awning Window** 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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