



Carinya Select Double Hung Window

Technical Manual
March 2024 | ISSUE C

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

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2. Technical Specifications

ALUMINIUM

Aluminium frames should be manufactured using Alspec's **CARINYA SELECT DOUBLE HUNG WINDOW** framing system.

The maximum sash height shall be 1191mm

The minimum sash height shall be 426mm

The maximum sash width shall be 1000mm

The minimum sash width shall be 300mm

The maximum sash weight shall be 20kg

HARDWARE

The hardware shall be Alspec's specific Glazing wedges, channels and seals for **CARINYA SELECT DOUBLE HUNG WINDOW**. For window & door systems requiring a co-extruded captive gasket on the external side of the glazed pocket, Santoprene is the recommended material to be applied.

- Refer to pages 12.1 - 12.4.
- 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 the following:

- AS2047
- Acoustic AS/NZS ISO 717.1
- BAL40 1530.8.1

All products are available from Alspec (A.B.N. 63 001 252 259) as detailed in the "Alspec" catalogue or on the Internet at www.alspec.com.au. All such framing is to be constructed, assembled and fixed to meet the requirement of AS2047 (windows in buildings), AS1170 (loading code). All glass, glazing rubbers, seals and gaskets shall be applied in accordance with the requirements of AS1288 (glass in buildings - selection and installation).

Fabricators of the **CARINYA SELECT DOUBLE HUNG WINDOW** 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

Window Rating for Housing

WINDOW RATINGS	SERVICEABILITY (PA)		ULTIMATE LIMIT (PA)		WATER RESISTANCE	
	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.	Panel Height	Maximum Design Pressure (Pa)					
	2850	S	1040	840	720	630	570
		U	2410	1960	1660	1460	1310
	2700	S	1230	1000	850	750	680
		U	2700	2190	1870	1640	1480
	2550	S	1460	1200	1020	910	830
		U	3040	2470	2210	1860	1690
	2400	S	1770	1450	1250	1080	1010
		U	3440	2810	2410	2080	1940
	2250	S	2160	1780	1530	1370	1270
		U	3940	3230	2780	2470	2270
	2100	S	2670	2210	1920	1730	1610
		U	4550	3750	3240	2900	2680
lxx = xxx x xxx mm4	Panel Width		800	1000	1200	1400	1600

STEP 1 →

2400

← STEP 3

STEP 2 ↑

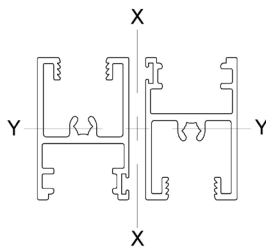
3. Loading Tables

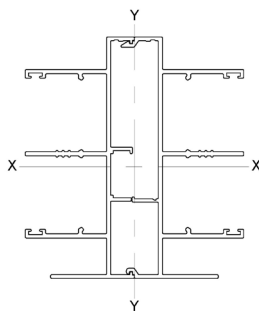
RDH4/ RDH4 Sash & RDH3 Jamb/ RDH12 Jamb Coupler

Max Stress = 110Mpa

S = Serviceability limit state I/250

U = Ultimate limit state

RDH4/ RDH4 SASH	Window Height	Maximum Design Pressure (Pa)							
	2400	S	3000	3000	3000	3000	1840	1210	840
		U	9000	9000	9000	9000	5970	4250	3230
	2100	S	3000	3000	3000	2770	1760	1200	860
		U	9000	9000	9000	8030	5610	4210	3310
	1800	S	3000	3000	3000	2710	1750	1210	870
		U	9000	9000	9000	7820	5590	4250	3370
	1600	S	3000	3000	3000	2710	1840	1310	970
		U	9000	9000	9000	7810	5920	4670	3800
	1400	S	3000	3000	3000	2840	1970	1420	1060
		U	9000	9000	9000	8240	6370	5090	4170
	1200	S	3000	3000	3000	3000	2170	1590	1200
		U	9000	9000	9000	9000	7060	5700	4710
	1000	S	3000	3000	3000	3000	2480	1830	1390
		U	9000	9000	9000	9000	8140	6620	5500
Ixx = 53 x 10 ³ mm ⁴	Window Width		600	700	800	900	1000	1100	1200

RDH3 JAMB/ RDH12 JAMB COUPLER	Window Height	Maximum Design Pressure (Pa)							
	2400	S	1860	1610	1420	1280	1170	1080	1000
		U	4300	3710	3280	2940	2680	2470	2290
	2100	S	2800	2430	2150	1950	1780	1650	1550
		U	5650	4890	4330	3900	3570	3300	3080
	1800	S	3000	3000	3000	3000	2930	2740	2590
		U	7770	6760	6010	5440	5010	4660	4390
	1600	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	8680	7750	7060	6540	6130	5830
	1400	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	9000	9000	8950	8500	8190
	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 = 711.6 x 10 ³ mm ⁴	Mullion Centres		600	700	800	900	1000	1100	1200

Tables are based on theoretical section properties

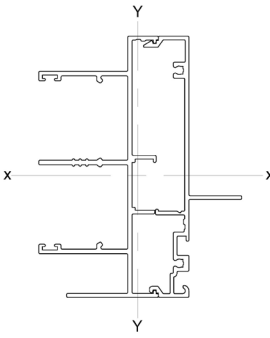
3. Loading Tables

RDH3 Jamb/ RAW13 Frame

Max Stress = 110Mpa

S = Serviceability limit state I/250

U = Ultimate limit state

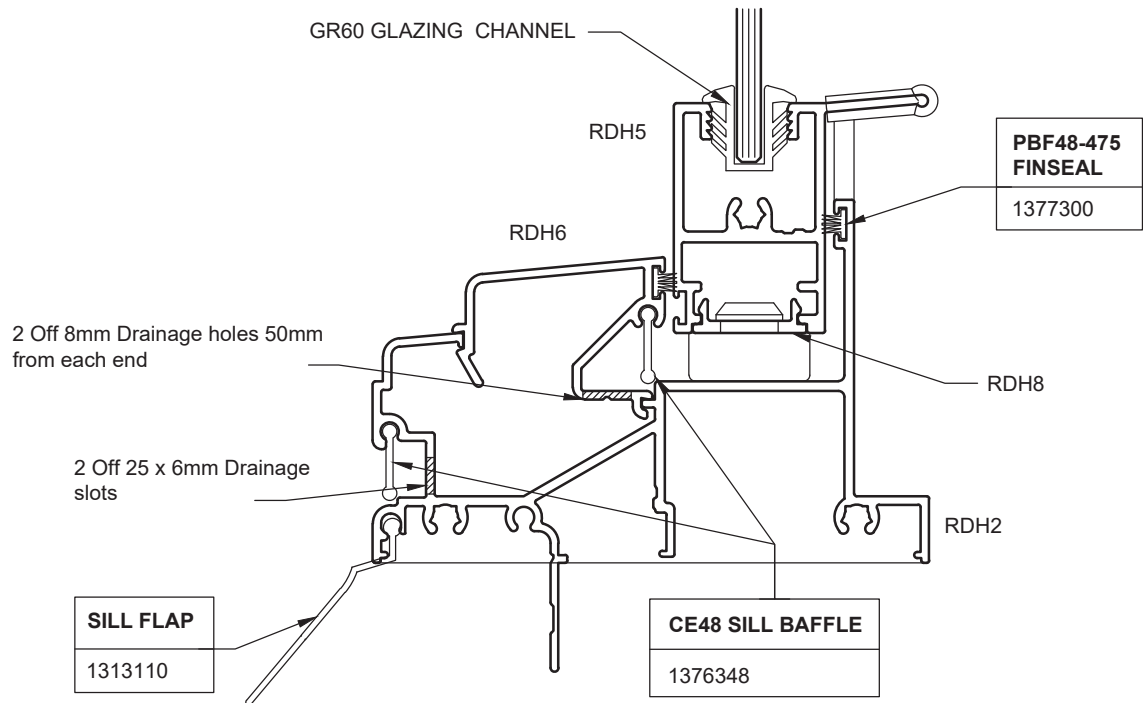
RDH3 JAMB/ RAW13 FRAME	Window Height	Maximum Design Pressure (Pa)							
	2200	S	1490	1290	1140	1020	930	860	800
		U	3440	2970	2620	2350	2140	1970	1830
	2000	S	2240	1940	1720	1560	1430	1320	1240
		U	4520	3920	3470	3120	2850	2640	2470
	1800	S	3000	3000	2800	2540	2350	2190	2070
		U	6220	5410	4810	4360	4000	3730	3510
	1600	S	3000	3000	3000	3000	3000	3000	3000
		U	7960	6940	6200	5650	5230	4910	4660
	1400	S	3000	3000	3000	3000	3000	3000	3000
		U	9000	9000	8340	7660	7160	6800	6560
	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
$I_{xx} = 569.5 \times 10^3 \text{ mm}^4$	Mullion Centres		600	700	800	900	1000	1100	1200

Tables are based on theoretical section properties

4. Test Summary

AS2047 - Select Double Hung Window D/D

TEST REPORT:	AS10-079
SYSTEM CONFIGURATION	RDH3/ RDH12 MULLION with RDH4/ RDH4 TRANSOM
TEST SAMPLE SIZE	1.8m high x 1.81m wide
SERVICEABILITY LOAD	+/- 2.2 kPa
ULTIMATE LOAD	+/- 4.37 kPa
WATER PENETRATION	200 Pa
AIR INFILTRATION	75Pa + 0.48 L/m/s ² - 0.62 L/m/s ²
	150Pa + 0.87 L/m/s ² - 0.84 L/m/s ²
OPERATING FORCE TEST	
INITIATING MOVEMENT	39.8 N
SUSTAINING MOVEMENT	47.4 N

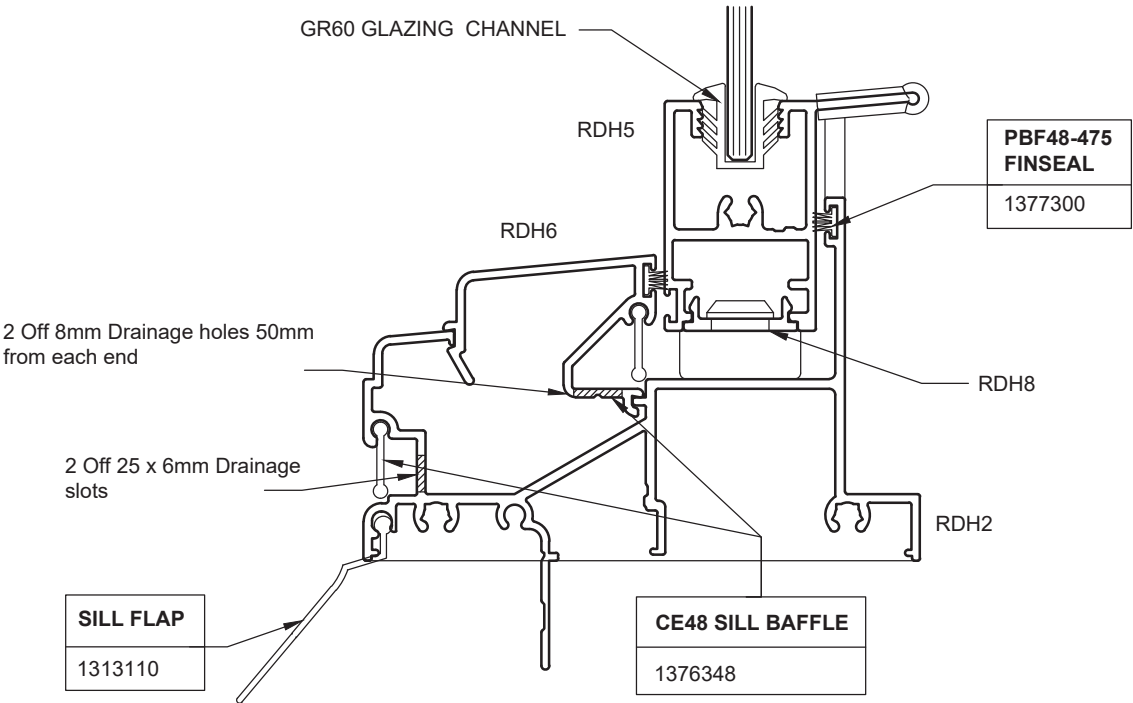


DISCLAIMER:
Please note that the test results shown above reflect specific configurations of a system and are representative only. If a specific high wind load or a different configuration (i.e. changes to frames, transoms, mullions) is required on a project please discuss with Alspec prior to commencement.

4. Test Summary

AS2047 - Select Double Hung Window D/F

TEST REPORT:	AS10-080
SYSTEM CONFIGURATION	RDH3/ RAW7 MULLION
TEST SAMPLE SIZE	1.8m high x 1.81m wide
SERVICEABILITY LOAD	+/- 2.2 kPa
ULTIMATE LOAD	+/- 3.16 kPa
WATER PENETRATION	200 Pa
AIR INFILTRATION	75Pa + 0.32 L/m/s ² - 0.54 L/m/s ² 150Pa + 0.79 L/m/s ² - 0.76 L/m/s ²
OPERATING FORCE TEST	
INITIATING MOVEMENT	98.1 N
SUSTAINING MOVEMENT	60.2 N



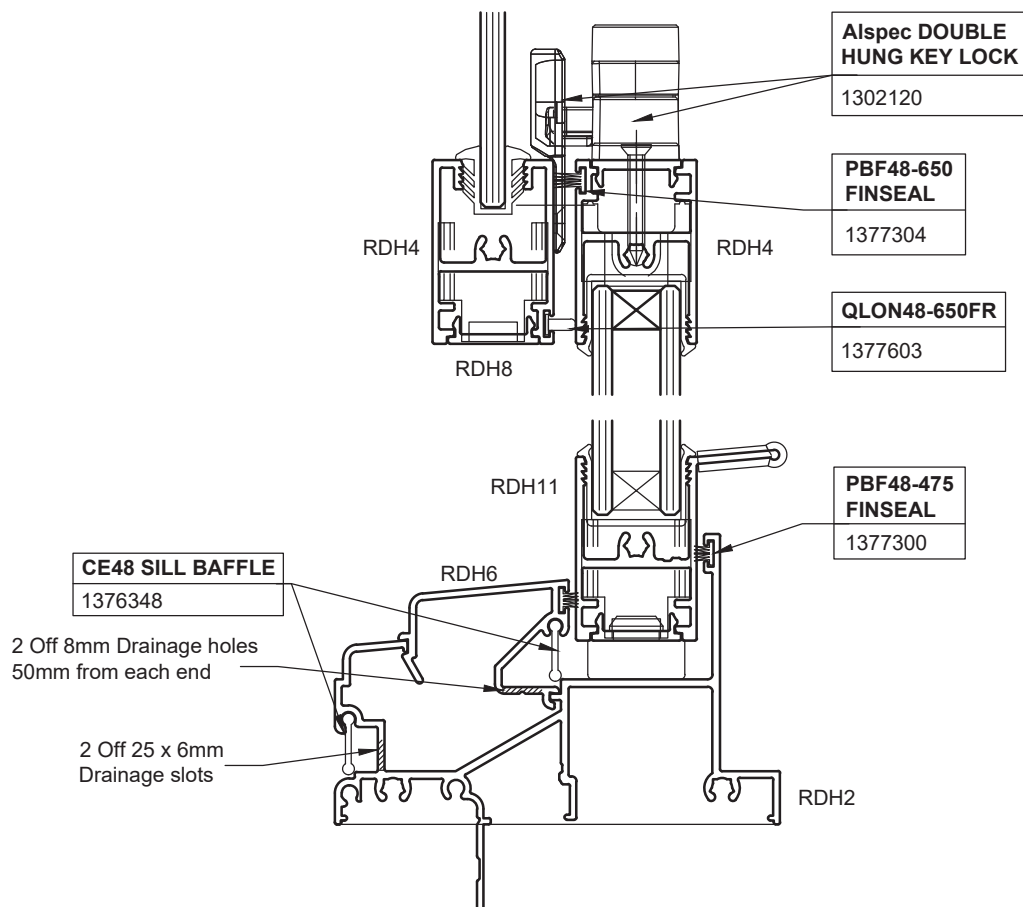
DISCLAIMER:

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

4. Test Summary

AS2047 - Select Double Hung Window D

TEST REPORT:	QMTL 397-901516
SYSTEM CONFIGURATION	CARINYA SELECT DOUBLE HUNG
TEST SAMPLE SIZE	1.6m high x 0.9m wide
SERVICEABILITY LOAD	+/- 1.8 kPa
ULTIMATE LOAD	+/- 4.0 kPa
WATER PENETRATION	300 Pa
AIR INFILTRATION	75Pa + 0.24 L/m/s ² - 0.22 L/m/s ²
OPERATING FORCE TEST	
INITIATING MOVEMENT	48.61 N
SUSTAINING MOVEMENT	41.67 N



NOTE: Alspec Double Hung Key Lock 1302120 superseded by Alspec Double Hung Key Lock 1302132 and 1302133

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4. Test Summary

Acoustic - AS/NZS ISO 717.1

TEST REPORT	PRODUCT DESCRIPTION	SIZE	GLASS	SEALS	Rw
4704-4	SELECT DOUBLE HUNG - DD	1.2m (H) x 1.8m (W)	6.38mm LAMINATE	PBF48475 FINSEAL	30 (0;-2)
TL581-22-1	SELECT DOUBLE HUNG - DF	1.2m (H) x 1.8m (W)	5mm/ 8/ 5mm	PBF48475 FINSEAL	31 (-1;-2)

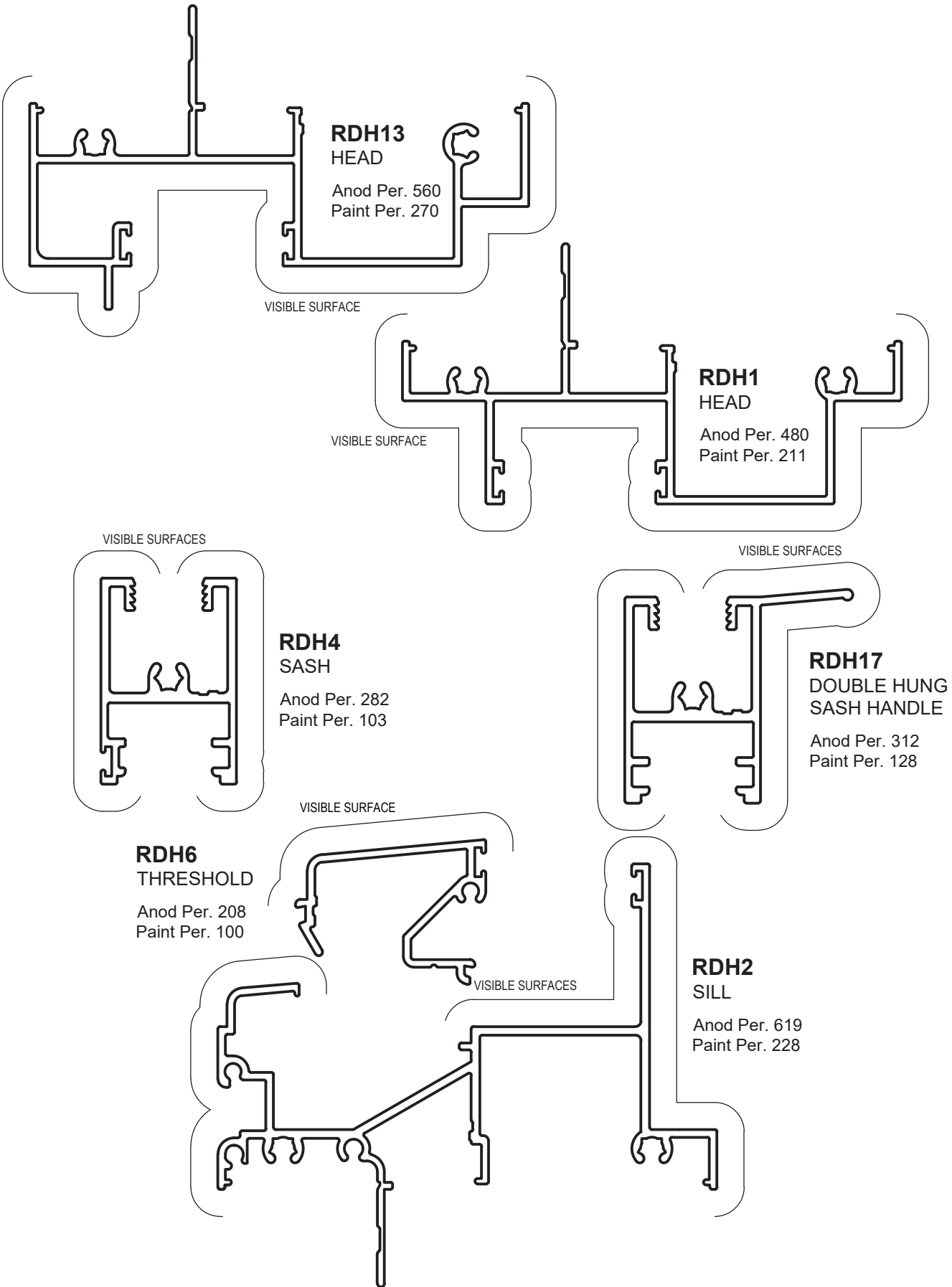
BAL40 - 1530.8.1

TEST REPORT	DESCRIPTION	SIZE	SEALS	RESULT
28223400	CARINYA SELECT DOUBLE HUNG WINDOW	1.6m (H) x 0.6m (W)	PBF48475 & GR61FR & QL48650FR	BAL 40

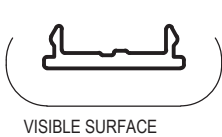
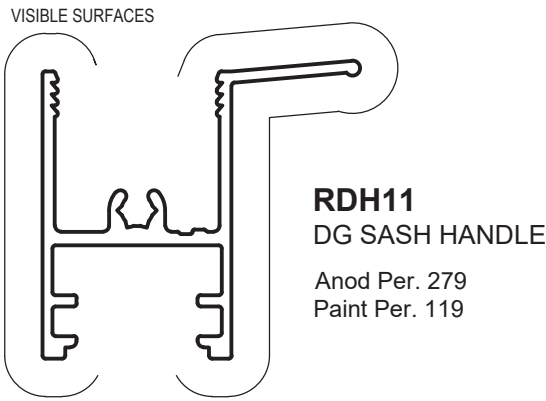
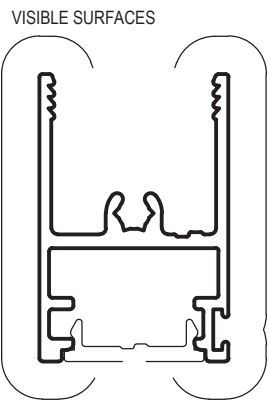
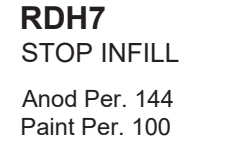
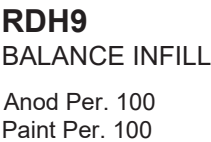
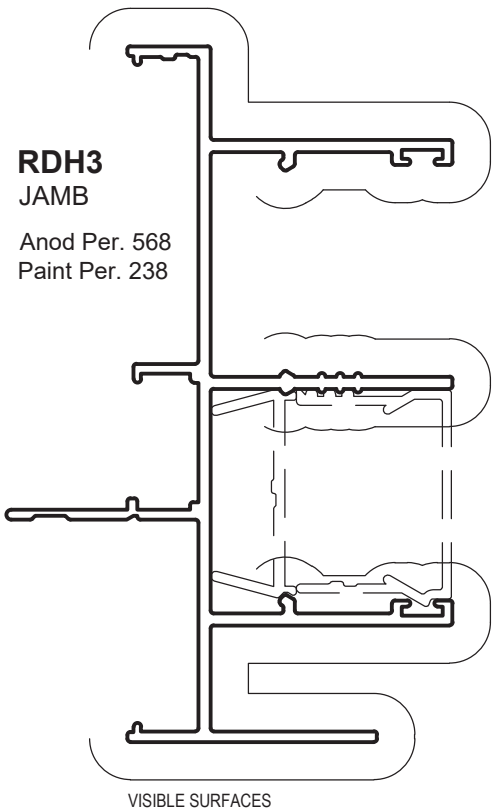
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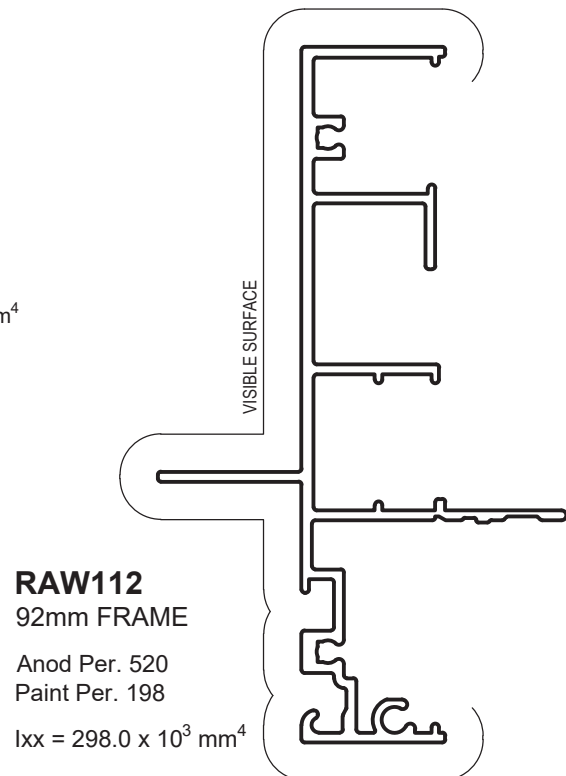
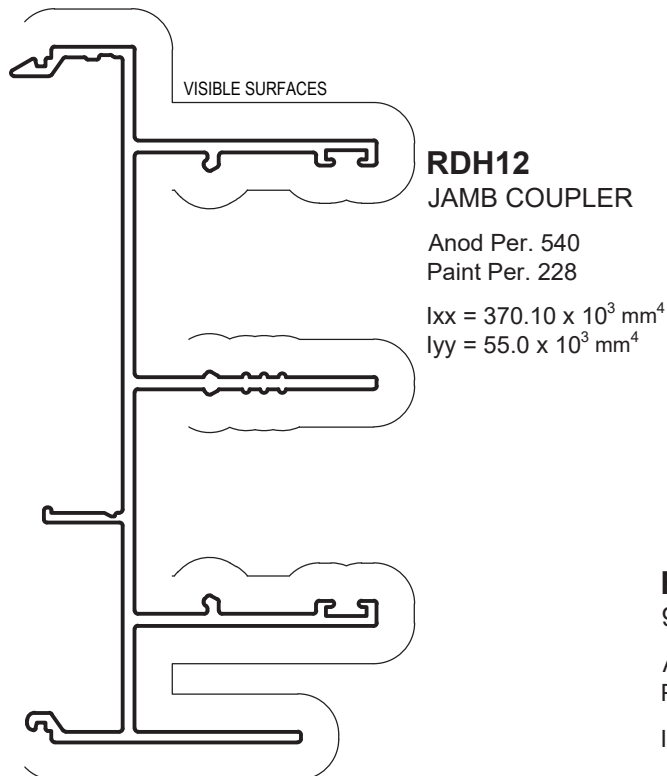
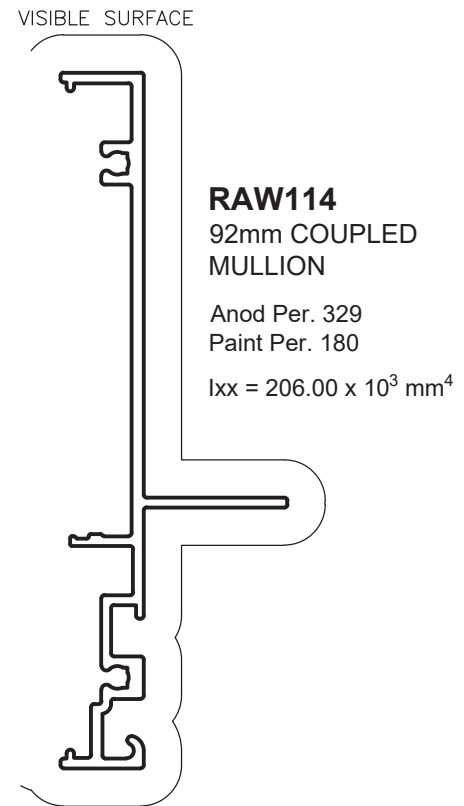
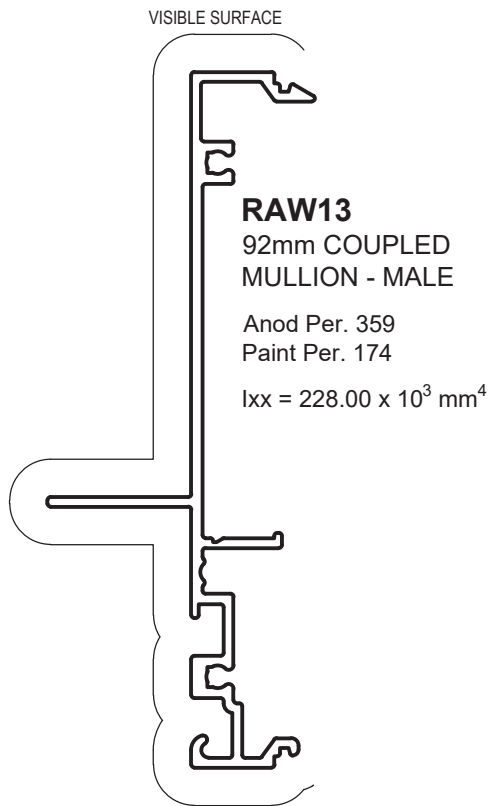
5. Extrusions



5. Extrusions

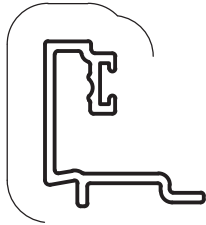


5. Extrusions



5. Extrusions

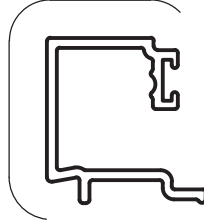
VISIBLE SURFACE



RAW10
DOUBLE GLAZE BEAD

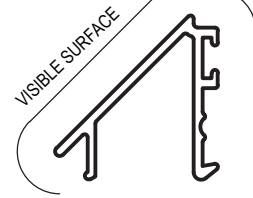
Anod. Per. 127
Paint Per. 100

VISIBLE SURFACE



RAW18
THICK GLASS BEAD

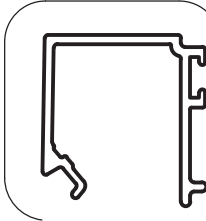
Anod. Per. 144
Paint Per. 100



RAW7
SG BEAD

Anod. Per. 122
Paint Per. 54

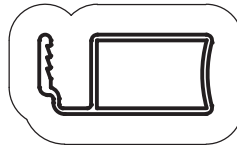
VISIBLE SURFACE



RAW26
4 - 10mm SQUARE BEAD

Mass. 0.238Kg/m
Anod. Per. 143.4
Paint Per. 100

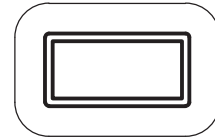
VISIBLE SURFACE



FS2
25mm FLY
SCREEN FRAME

Anod. Per. 100
Paint Per. 100

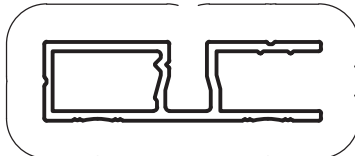
VISIBLE SURFACE



Q4750
SPREADER BAR

Anod. Per. 100
Paint Per. 100

VISIBLE SURFACES



SW1
SECURITY WINDOW FRAME

Anod. Per. 142
Paint Per. 142

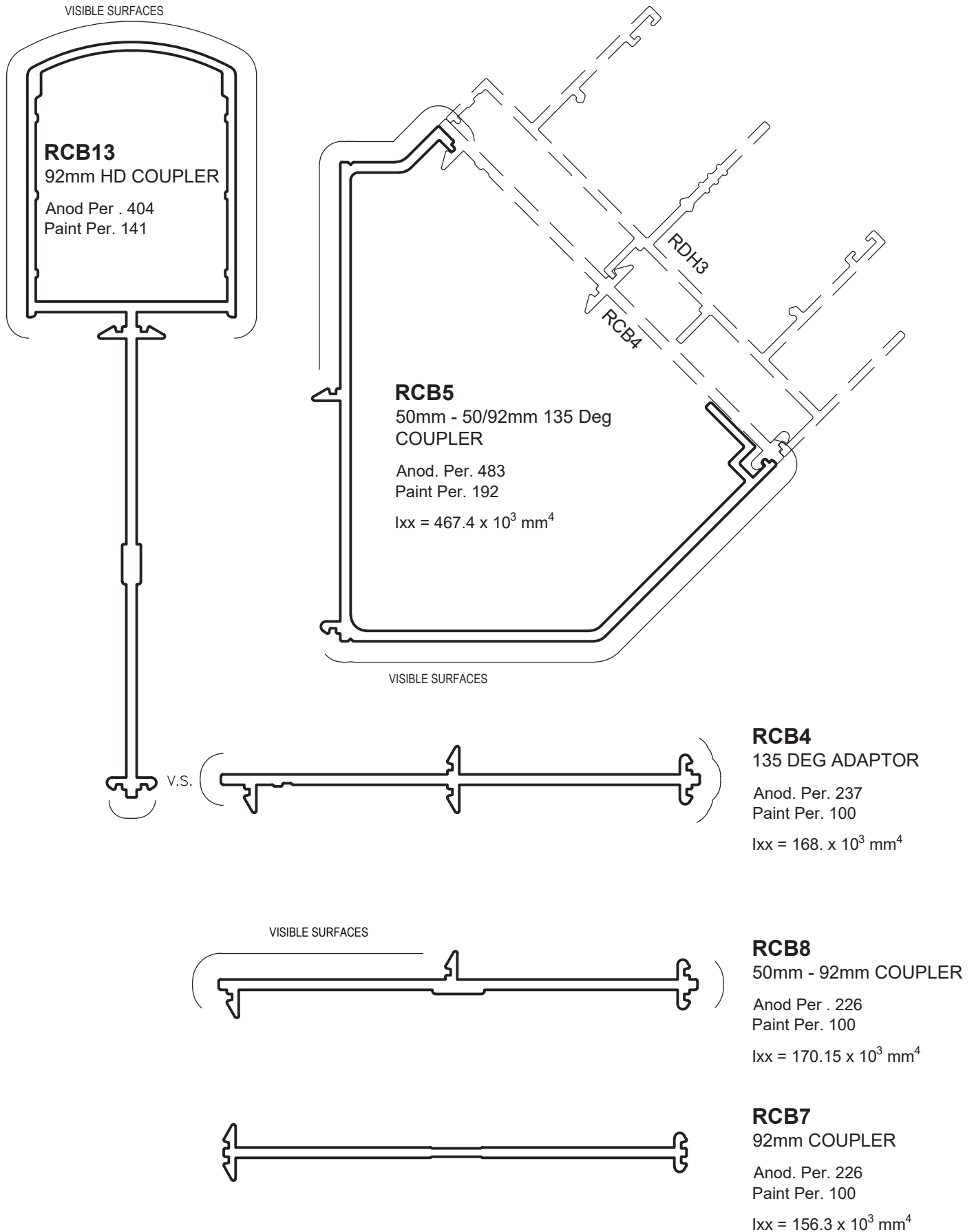
VISIBLE SURFACE



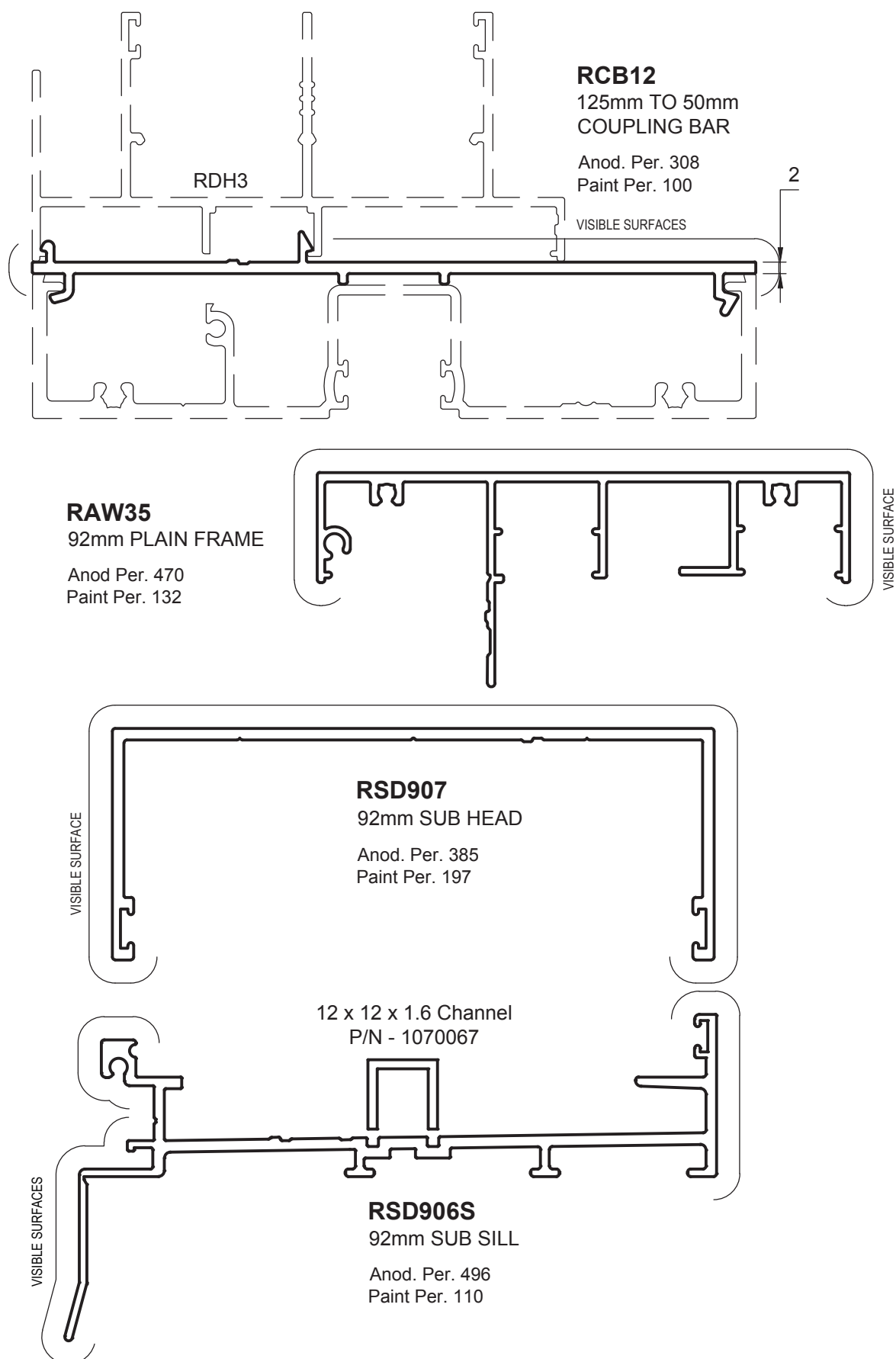
ASM-1041
COLONIAL BAR

Anod. Per. 100
Paint Per. 100

5. Extrusions



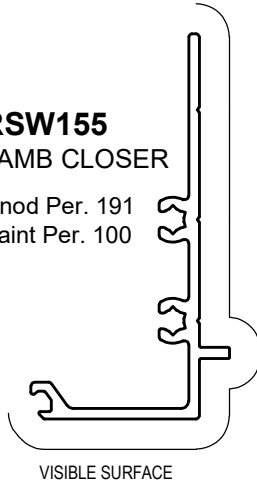
5. Extrusions



5. Extrusions

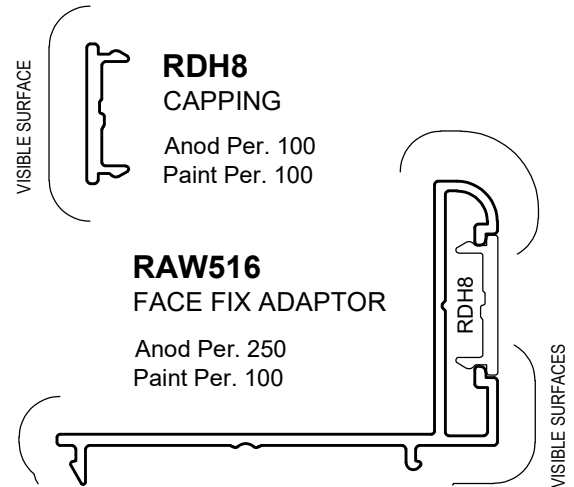
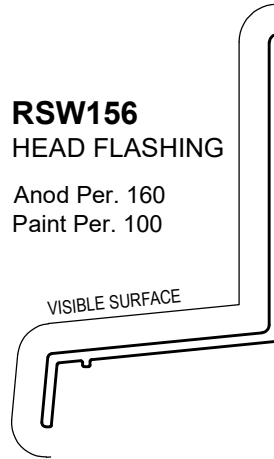
RSW155 JAMB CLOSER

Anod Per. 191
Paint Per. 100



RSW156 HEAD FLASHING

Anod Per. 160
Paint Per. 100

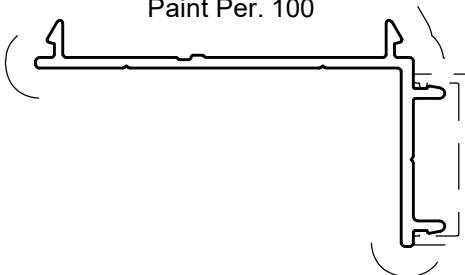


RAW516 FACE FIX ADAPTOR

Anod Per. 250
Paint Per. 100

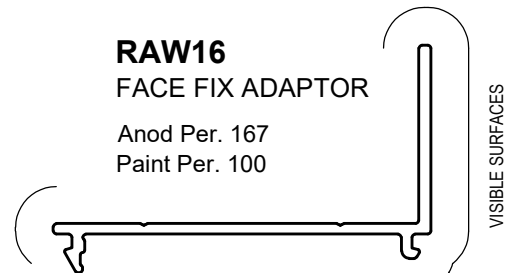
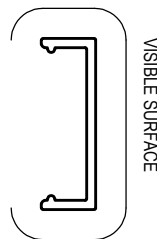
RAW39 FACE FIX ADAPTOR

Anod Per. 186
Paint Per. 100



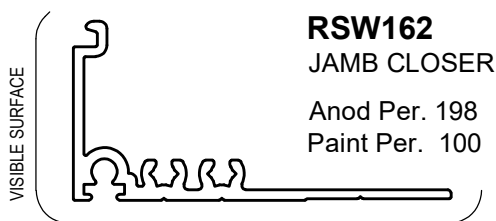
RSW53 FACE FIX COVER

Anod Per. 100
Paint Per. 100



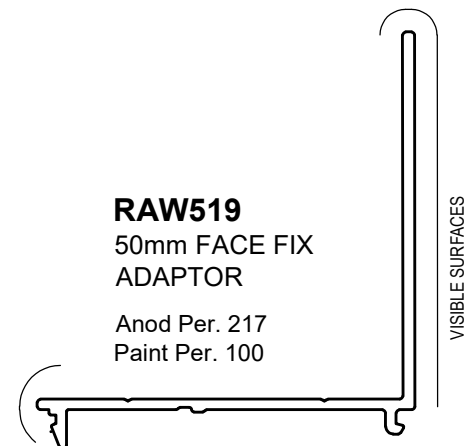
RAW16 FACE FIX ADAPTOR

Anod Per. 167
Paint Per. 100



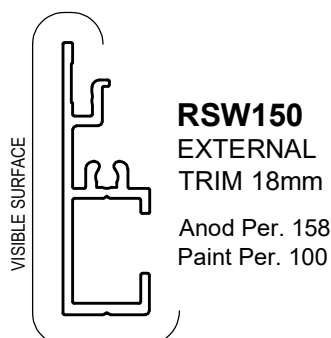
RSW162 JAMB CLOSER

Anod Per. 198
Paint Per. 100



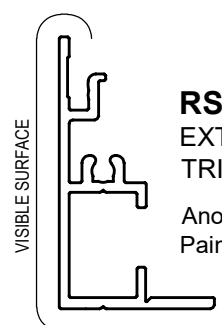
RAW519 50mm FACE FIX ADAPTOR

Anod Per. 217
Paint Per. 100



RSW150 EXTERNAL TRIM 18mm

Anod Per. 158
Paint Per. 100

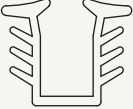
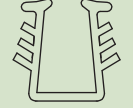
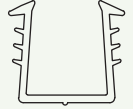
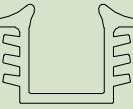
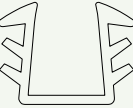
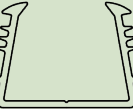
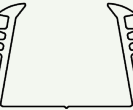
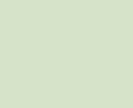


RSW151 EXTERNAL TRIM 10mm

Anod Per. 177
Paint Per. 100

6. Hardware & Components

Glazing Channels

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

6. Hardware & Components

Glazing Wedges

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

Seals

IMAGE	PART #	FINISH	DESCRIPTION
	1377300	BLACK (034)	PBF48-475-2B FINSEAL T-SLOT x 500m
	1377304	BLACK (034)	PBF48-650-2B FINSEAL T-SLOT x 400m
	1376359	BLACK (034)	CE48 CO-EXT BAFFLE (13.5mm HEIGHT) x 500m ROLL
	1313110	BLACK (034)	SILL FLAP x 150m
	1377601	BLACK (034)	QL48650FR QLON SEAL FIRE RETARDANT x 610m
	1377603	BLACK (034)	QL48650FR QLON SEAL FIRE RETARDANT x 1m
	1385514	BLACK (034)	TESA 60402 12mm x 1.6mm DOUBLE SIDED PVC FOAM TAPE x 61m

Fasteners

SCREWS			
PART #	HEAD	DESCRIPTION	LOCATION
1382644	SQUARE #2	10g x 1 (25mm) 304SS SQ #2 PAN S/TAP SCREW x 1000	CORNER SASH RDHA7 FRAME ASSEMBLY
1382054	PHILLIPS #2	10g x 1 (25mm) SS PHIL PAN S/TAP SCREW x 500	
1382662	SQUARE #2	6g x 1 (25mm) 304SS SQ #1 CSK S/TAP SCREW x 1000	LOCK BODY
1382006	PHILLIPS #2	6g x 1 (25mm) SS PHILLIPS CSK S/TAP x 200	

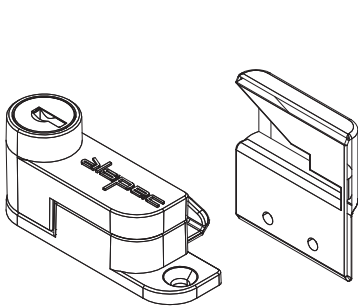
Rivets

PART #	DESCRIPTION	LOCATION	FINISH
1380165	AS4-4 RIVETS - Ø3.2 x 10	LOCK STRIKER	S/LESS STEEL (0G8)

Frame Joint Gaskets

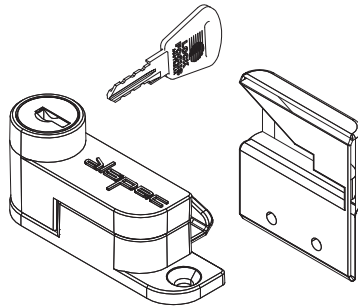
PART #	DESCRIPTION	FINISH	LOCATION
1315044	RDHA4 HEAD JOINT GASKET x ROLL (600 PAIRS / ROLL)	BLACK (034) GREY (036)	REFER TO PG 11.1
1315045	RDHA5 SILL JOINT GASKET x ROLL (445 PAIRS / ROLL)	BLACK (034) GREY (036)	
1315060	RAWA10 92mm FRAME JOINT GASKET x ROLL (445 PAIRS / ROLL)	BLACK (034) GREY (036)	
1315056	RAWA6 92mm MULL/TRAN JOINT GASKET x ROLL (445 PAIRS / ROLL)	BLACK (034) GREY (036)	

Accessories



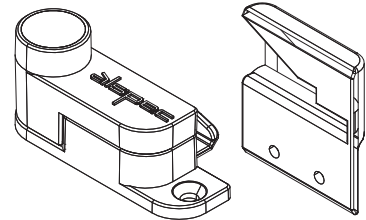
ALSPEC DOUBLE HUNG C4 KEY LOCK (NO KEY)

PART	1302121
FINISH	PWG(010), S(031), B(034)
QTY	EACH



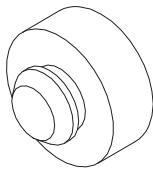
ALSPEC DOUBLE HUNG LOCK WITH KEY

PART /	1302132 - WHITE (015)
FINISH	1302133 - SILVER PAINT (031)
QTY	EACH



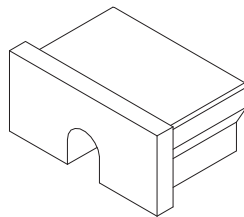
ALSPEC DOUBLE HUNG NON KEY LOCK

PART	1302122
FINISH	PWG(010), S(031), B(034)
QTY	EACH



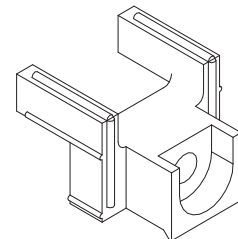
ALT009 8mm HIGH GROMMET

PART	1314103
FINISH	BLACK (034)
QTY	EACH



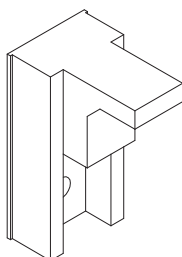
ALT005 FLAT THRESHOLD BUMP STOP

PART	1314100
FINISH	BLACK (034)
QTY	EACH



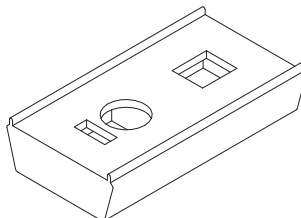
RDHA1 CORNER BLOCK

PART	1315041
FINISH	BLACK (034)
QTY	EACH



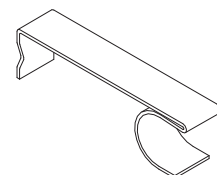
RDHA7 SINGLE HUNG BRACKET

PART	1315047
FINISH	BLACK (034)
QTY	EACH



RDHA3 BALANCE CLIP BRACKET

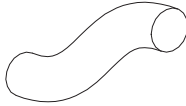
PART	1315043
FINISH	BLACK (034)
QTY	EACH



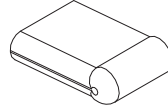
121 TAKE OUT CLIP

PART	1348243
FINISH	SATIN S/LESS STEEL (0A6)
QTY	EACH

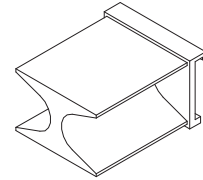
Accessories



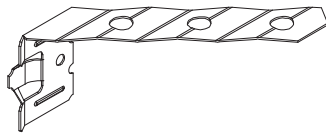
SPLINE (J) 6mm x 300m	
PART	1328026
FINISH	BLACK (034), GREY (036)
QTY	ROLL



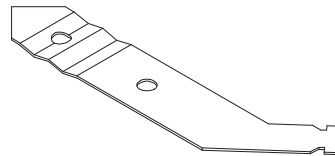
RDHA2 HANDLE CAP	
PART	1315042
FINISH	BLACK (034)
QTY	EACH



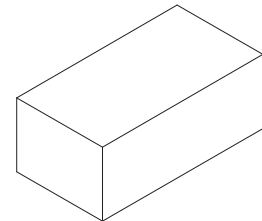
FS2 25 x 11mm CROSS BRACE CLIP	
PART	1324903
FINISH	B (034), SG MATT (0FT)
QTY	EACH



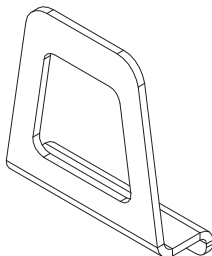
BRICK LUG (NAIL FIN TYPE) D21	
PART	1315101
FINISH	GALVANISED STEEL (099)
QTY	EACH



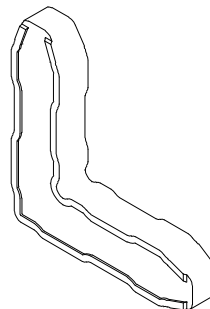
BRICK LUG (TWIST IN TYPE) M185-6	
PART	1315100
FINISH	GALVANISED STEEL (099)
QTY	EACH



RDHA8 FLYSCREEN TENSION BLOCK 16x10x30mm x (600 ROLL)	
PART	1315048
FINISH	BLACK (034)
QTY	ROLL



FLYSCREEN LIFT TAB 25mm W825117	
PART	1320052
FINISH	BLACK (034)
QTY	EACH



FS2C-A CORNER FOR FS2 25 x 11mm FRAME	
PART	1324001
FINISH	B (034), MATT B (0G7)
QTY	EACH



SERIES 100 BALANCES (REFER TO PG 6.6 FOR SIZE GUIDE)	
PART	1348150 - 1348242
FINISH	NOT SPECIFIED (099)
QTY	EACH

6. Hardware & Components

Series 100 Balances

PART CODE	PART # & DESCRIPTION	PART CODE	PART # & DESCRIPTION
1348150	A1410 - 381mm 1.8kg - 2.7kg	1348175	A2220 - 584mm 3.6 - 5.4kg
1348151	A1420 - 381mm 2.7kg - 4.5kg	1348176	A2230 - 584mm 5.44 - 8.60kg
1348152	A1430 - 381mm 4.5kg - 5.4kg	1348177	A2240 - 584mm 8.60 - 10.4kg
1348153	A1440 - 381mm 5.4kg - 5.9kg	1348178	A22590 - 584mm 10.4 - 13.6kg
1348154	A1490 - 381mm 5.9kg - 9.0kg	1348256	A22DS.35 548mm 13.60 -15.88kg
1348156	A1610 - 432mm 2.2kg - 3.6kg	1348257	A22DS.40 548mm 15.88 -18.14kg
1348157	A1620 - 432mm 3.6kg - 5.4kg	1348180	A2410 - 635mm 2.26 - 4.0kg
1348158	A1630 - 432mm 5.4kg - 6.3kg	1348181	A2420 - 635mm 4.0 - 6.8kg
1348159	A1640 - 432mm 6.3kg - 8.6kg	1348182	A2430 - 635mm 6.8 - 8.6kg
1348160	A1690 - 432mm 8.6kg - 11.3kg	1348183	A2440 - 635mm 8.6 - 10.9kg
1348250	A16DS.30 432mm 11.3kg-13.6kg	1348184	A2490 - 635mm 10.9 - 13.6kg
1348251	A16DS.35 432mm 13.6kg-15.8kg	1348258	A24DS.35 635mm 13.60 - 15.88kg
1348162	A1810 - 483mm 2.3kg - 3.6kg	1348259	A24DS.40 635mm 15.88 - 18.14kg
1348163	A1820 - 483mm 3.6kg - 5.4kg	1348260	A24DS.45 635mm 18.14 - 20.40kg
1348164	A1830 - 483mm 5.4kg - 6.3kg	1348186	A2610 - 686mm 2.26 - 4.0kg
1348165	A1840 - 483mm 6.3kg - 7.7kg	1348187	A2620 - 686mm 4.0 - 5.9kg
1348166	A1890 - 483mm 7.7kg - 11.3kg	1348188	A2630 - 686mm 5.9 - 8.6kg
1348252	A18DS.30 483mm 11.3kg-13.6kg	1348189	A2640 - 686mm 8.6 - 11.8kg
1348253	A18DS.35 483mm 13.60kg-15.8kg	1348190	A2690 - 686mm 11.8 - 13.6kg
1348168	A2010 - 533mm 2.3kg - 3.6kg	1348261	A26DS.35 686mm 13.60 - 15.88kg
1348169	A2020 - 533mm 3.6kg - 5.4kg	1348262	A26DS.40 686mm 15.88 - 18.14kg
1348170	A2030 - 533mm 5.4kg - 6.8kg	1348263	A26DS.45 686mm 18.14 - 20.40kg
1348171	A2040 - 533mm 6.8kg - 10.4kg	1348192	A2810 - 737mm 3.2 - 5.4kg
1348172	A2090 - 533mm 10.4kg - 13.6kg	1348193	A2820 - 737mm 5.4 - 7.3kg
1348254	A20DS.35 533mm 13.6kg-15.88kg	1348194	A2830 - 737mm 7.3 - 10.4kg
1348255	A20DS.40 533mm 15.88kg-18.14kg	1348195	A2840 - 737mm 10.4 - 12.7kg
1348174	A2210 - 584mm 2.3kg - 3.6kg	1348196	A2850 - 737mm 12.7 - 14.5kg

6. Hardware & Components

Series 100 Balances

PART CODE	PART # & DESCRIPTION	PART CODE	PART # & DESCRIPTION
1348197	A2890 - 737mm 14.5 - 15.9kg	1348220	A3610 - 940mm 3.6 - 5.9kg
1348264	A28DS.40 737mm 15.90 - 18.14kg	1348221	A3620 - 940mm 5.9 - 8.16kg
1348265	A28DS.45 737mm 18.14 - 20.40kg	1348222	A3630 - 940mm 8.16 - 10.4kg
1348199	A3010 - 787mm 3.17 - 5.44kg	1348223	A3640 - 940mm 10.4 - 13.6kg
1348200	A3020 - 787mm 5.44 - 7.25kg	1348224	A3650 - 940mm 13.6 - 15.9kg
1348201	A3030 - 787mm 7.25 - 10.4kg	1348272	A36DS.40 940mm 15.90 - 18.14kg
1348202	A3040 - 787mm 10.4 - 12.7kg	1348273	A36DS.45 940mm 18.14 - 20.40kg
1348203	A3050 - 787mm 12.7 - 14.5kg	1348226	A3810 - 991mm 4.08 - 6.3kg
1348204	A3090 - 787mm 14.5 - 15.9kg	1348227	A3820 - 991mm 6.3 - 8.6kg
1348266	A30DS.40 787mm 15.90 - 18.14kg	1348228	A3830 - 991mm 8.6 - 10.9kg
1348267	A30DS.45 787mm 18.14 - 20.40kg	1348229	A3840 - 991mm 10.9 - 13.6kg
1348206	A3210 - 838mm 3.6 - 5.9kg	1348230	A3850 - 991mm 13.6 - 15.9kg
1348207	A3220 - 838mm 5.9 - 8.16kg	1348274	A38DS.40 990mm 15.90 - 18.14kg
1348208	A3230 - 838mm 8.6 - 10.4kg	1348275	A38DS.45 990mm 18.14 - 20.40kg
1348209	A3240 - 838mm 10.4 - 12.7kg	1348232	A4010 - 1041mm 4.08 - 6.3kg
1348210	A3250 - 838mm 12.7 - 14.5kg	1348233	A4020 - 1041mm 6.3 - 8.6kg
1348211	A3290 - 838mm 14.5 - 15.9kg	1348234	A4030 - 1041mm 8.6 - 10.9kg
1348268	A32DS.40 838mm 15.90 - 18.14kg	1348235	A4040 - 1041mm 10.9 - 13.6kg
1348269	A32DS.45 838mm 18.14 - 20.40kg	1348236	A4050 - 1041mm 13.6 - 15.9kg
1348213	A3410 - 889mm 3.6 - 5.9kg	1348276	A40DS.40 1041mm 15.90 - 18.14kg
1348214	A3420 - 889mm 5.9 - 8.16kg	1348277	A40DS.45 1041mm 18.14 - 20.40kg
1348215	A3430 - 889mm 8.16 - 10.4kg	1348238	A4220 - 1092mm 6.3 - 8.6kg
1348216	A3440 - 889mm 10.4 - 12.7kg	1348239	A4230 - 1092mm 8.6 - 10.9kg
1348217	A3450 - 889mm 12.7 - 14.5kg	1348240	A4240 - 1092mm 10.9 - 13.6kg
1348218	A3490 - 889mm 14.5 - 15.9kg	1348241	A4250 - 1092mm 13.6 - 15.9kg
1348270	A34DS.40 889mm 15.90 - 18.14kg	1348278	A42DS.40 1092mm 15.90 - 18.14kg
1348271	A34DS.45 889mm 18.14 - 20.40kg	1348279	A42DS.45 1092mm 18.14 - 20.40kg

6. Hardware & Components

Balance Matrix

EXAMPLE:

Glass Thickness (mm)	WF - Weight Factor Per SQ/M
4	13.7
5	16.2
6 - 6.38	18.7
8	23.7
10	28.7
4 + 4 (DG)	23.7
4 + 6 (DG)	28.7

SASH HEIGHT (H) = 0.80m
SASH WIDTH (W) = 0.65m
GLASS THICKNESS = 6.38mm

CALCULATE WEIGHT
H x W x WT = SASH WEIGHT
0.8 x 0.65 x 18.7 = 9.7kg

Therefore because Sash Height = 0.8m and Sash Weight = 9.7kg
The correct balance is *194
Add Alspec Code **1348** before the **3 digit number**.

Full code = 1348xxx

		MAX SASH WEIGHT (kg)																										
		1.8	2.2	2.7	3.2	3.6	4	4.5	5.4	5.9	6.3	6.8	7.3	7.7	8.2	8.6	9	10.4	10.9	11.3	11.8	12.7	13.6	14.5	15.4	15.8	18.1	20.4
486		150	150	150	151	151	151	151	152	153	154	154	154	154	154	154	154											
537		156	156	156	156	156	157	157	157	158	158	159	159	159	159	159	160	160	160	160	250	250	250	251	251	251		
588		162	162	162	162	162	163	163	163	164	164	165	165	165	166	166	166	166	166	166	252	252	252	253	253	253		
639		168	168	168	168	168	169	169	169	170	170	170	171	171	171	171	171	171	171	172	172	172	172	254	254	254	255	
690		174	174	174	174	174	175	175	175	176	176	176	176	176	176	176	177	177	177	178	178	178	178	256	256	256	257	
741		180	180	180	180	180	181	181	181	181	181	181	182	182	182	182	183	183	183	184	184	184	184	258	258	258	259	260
792		186	186	186	186	186	187	187	187	187	188	188	188	188	188	188	189	189	189	189	190	190	190	191	191	191	191	262
843					192	192	192	192	192	193	193	193	193	194	194	194	194	194	195	195	195	195	196	196	197	197	264	265
894					199	199	199	199	199	200	200	200	200	201	201	201	201	201	202	202	202	202	203	203	204	204	266	267
945						206	206	206	206	206	207	207	207	207	208	208	208	208	209	209	209	209	210	210	211	211	268	269
996						213	213	213	213	213	214	214	214	214	215	215	215	215	216	216	216	216	217	217	218	218	270	271
1047						220	220	220	220	220	221	221	221	221	222	222	222	222	223	223	223	223	224	224	224	224	272	273
1098							226	226	226	226	226	227	227	227	227	227	228	228	228	229	229	229	229	230	230	230	274	275
1149							232	232	232	232	232	233	233	233	233	233	234	234	234	235	235	235	235	236	236	236	276	277
1200											238	238	238	238	238	238	239	239	239	240	240	240	240	241	241	241	278	279
		MAX SASH HEIGHT (mm)																										

Silicone



100% NEUTRAL CURE SILICONE

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



100% MATTE NEUTRAL CURE SILICONE

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



41 CLADDING SILICONE

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



WET AREA SILICONE

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



HYBRID PU ADHESIVE SEALANT

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



20 ACETIC CURE SILICONE

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



D60 SILICONE

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

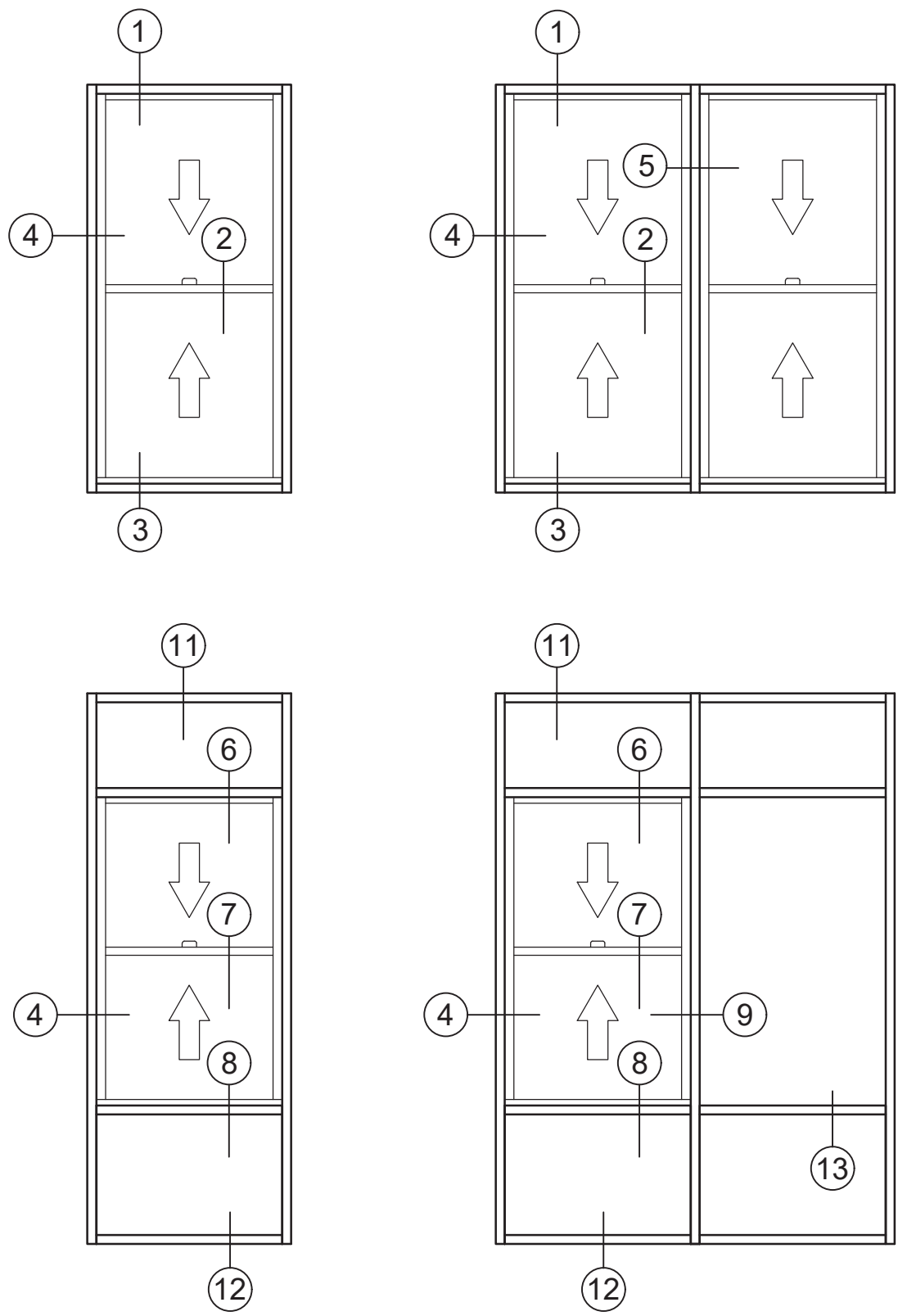
*For more information on silicones,
please refer to Alspec Silicone Brochure.

6. Hardware & Components

Silicone Product Codes

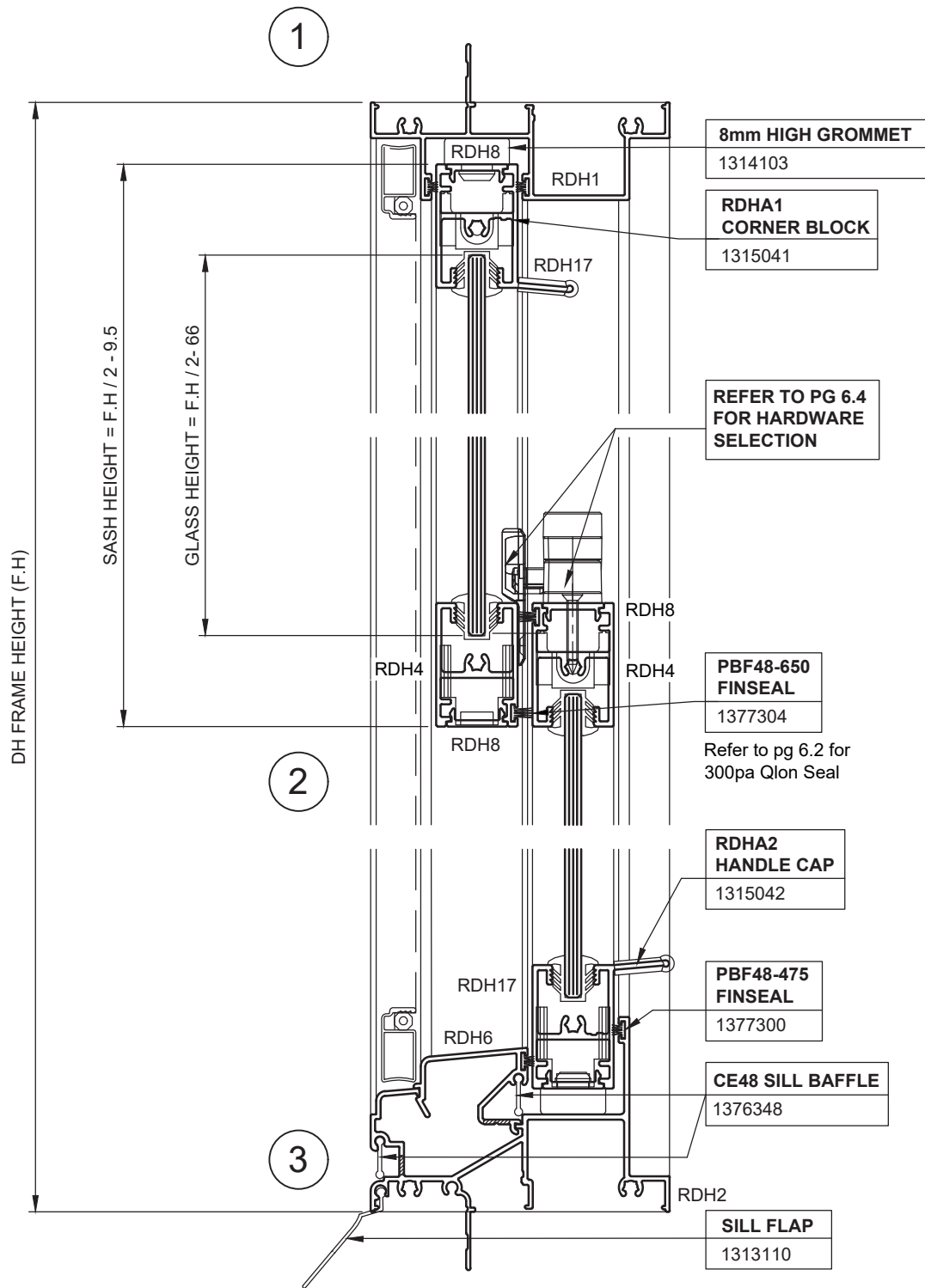
Product Category	Item No.	Alspec Part No. Code	Description	Finish	Pack
ALSPEC 100%	1	1386113	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	ALMOND IVORY	CARTRIDGE
	2	1386114	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	ALUMINIUM	CARTRIDGE
	3	1386105	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	BLACK	CARTRIDGE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

7. Typical Elevation



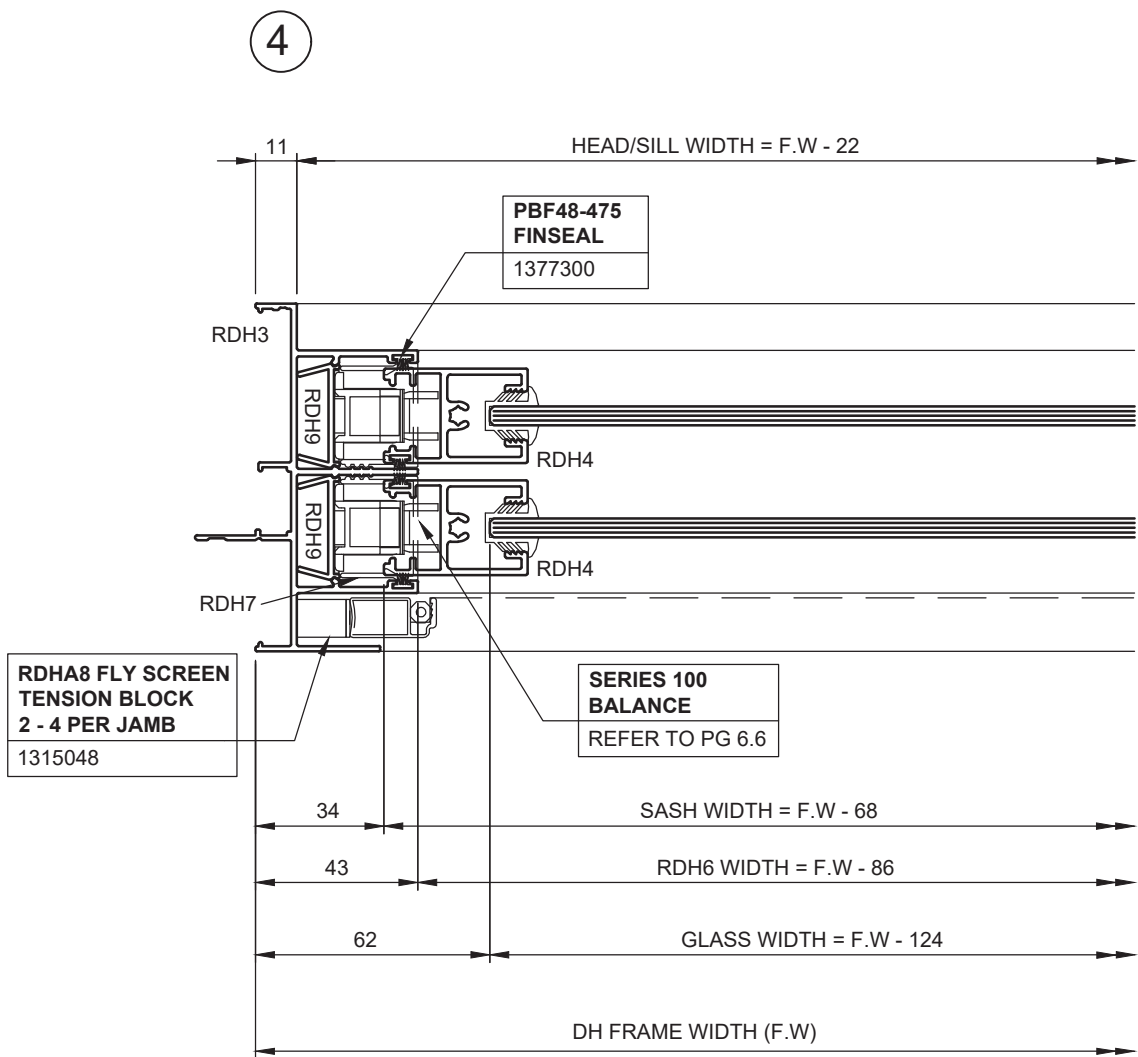
8. Typical Details

Vertical Detail - 92mm Frame Single Glazed



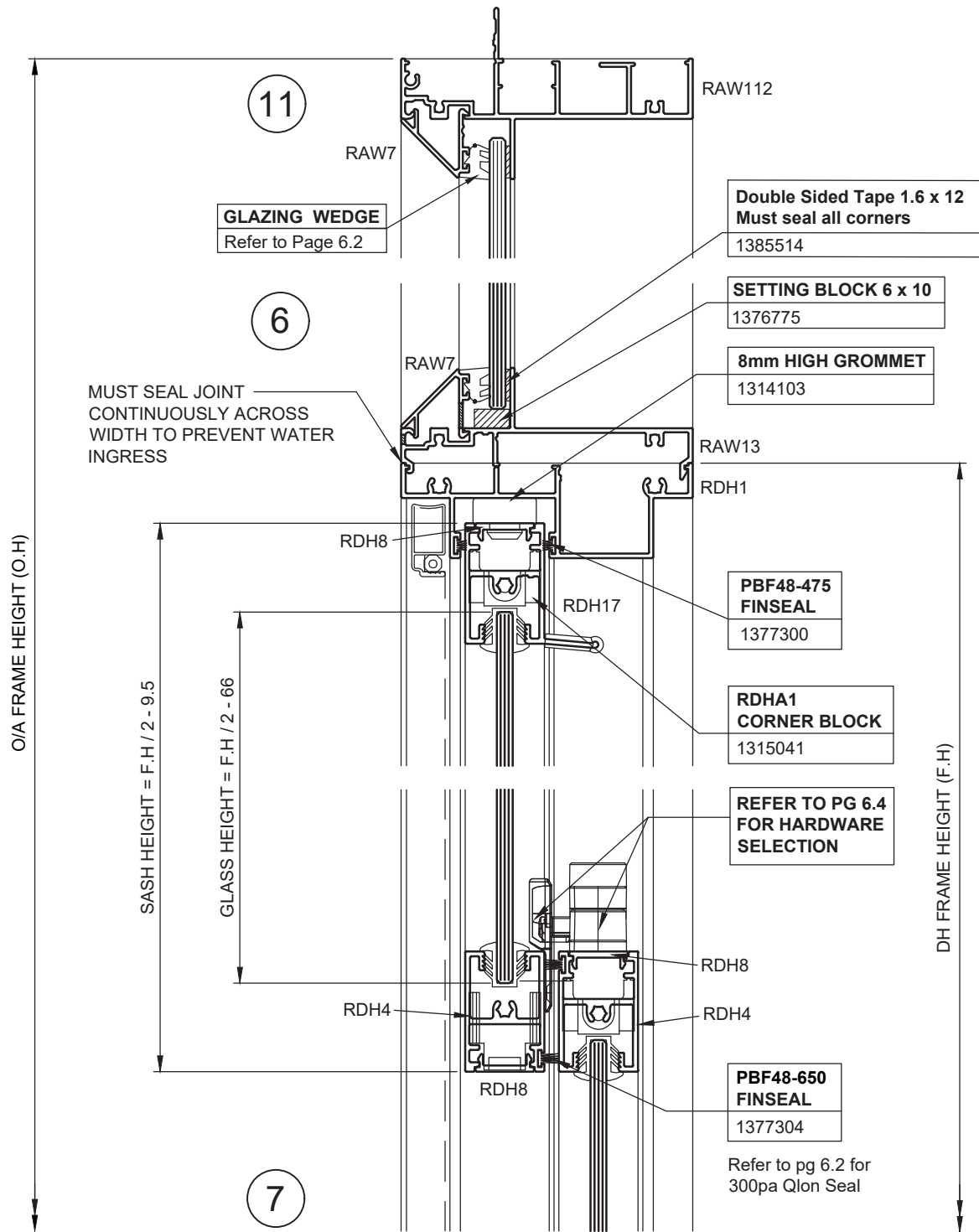
8. Typical Details

Horizontal Detail - 92mm Frame Single Glazed



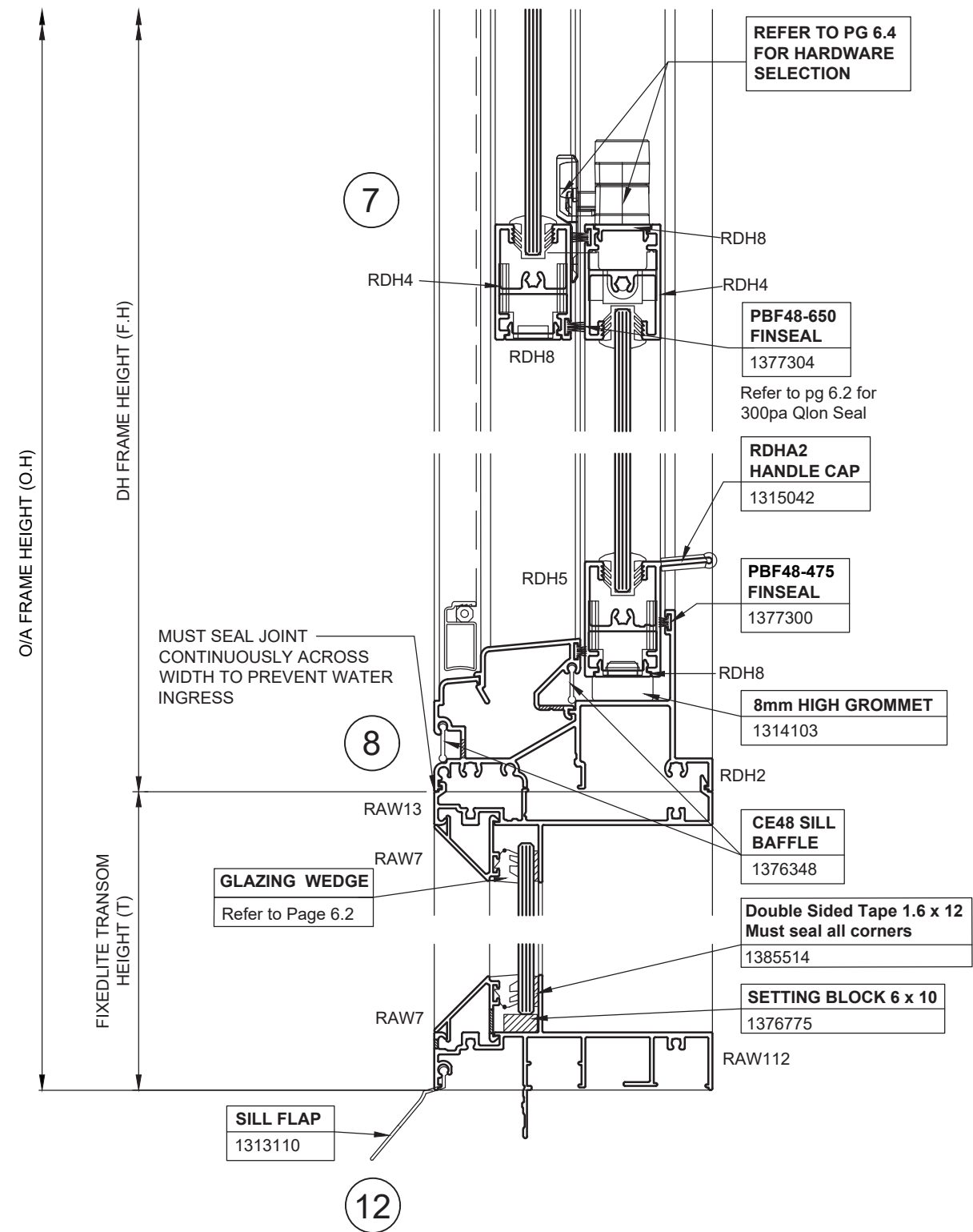
8. Typical Details

Vertical Detail - 92mm Frame Fixed Hi - Lite



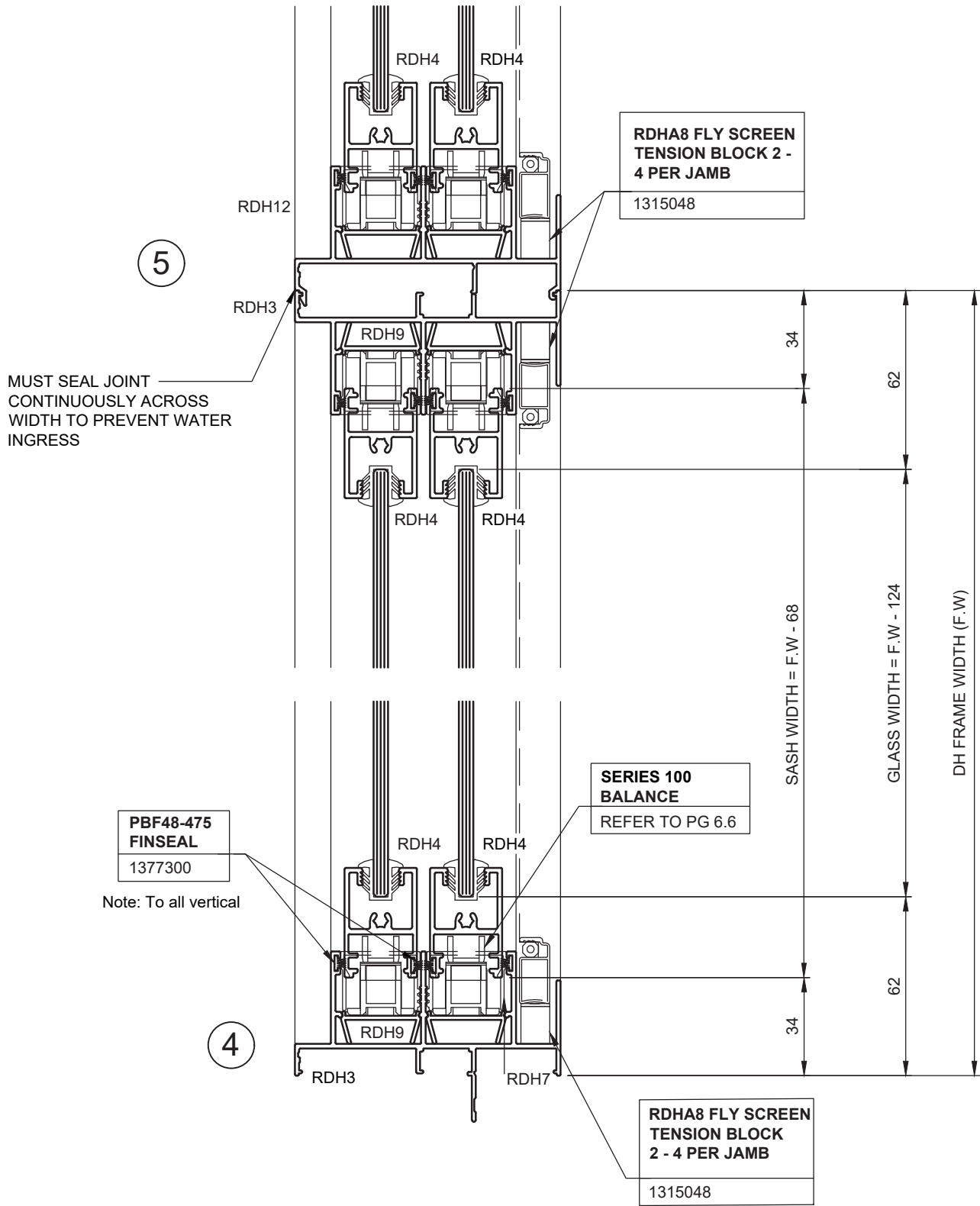
8. Typical Details

Vertical Detail - 92mm Frame Fixed Low - Lite



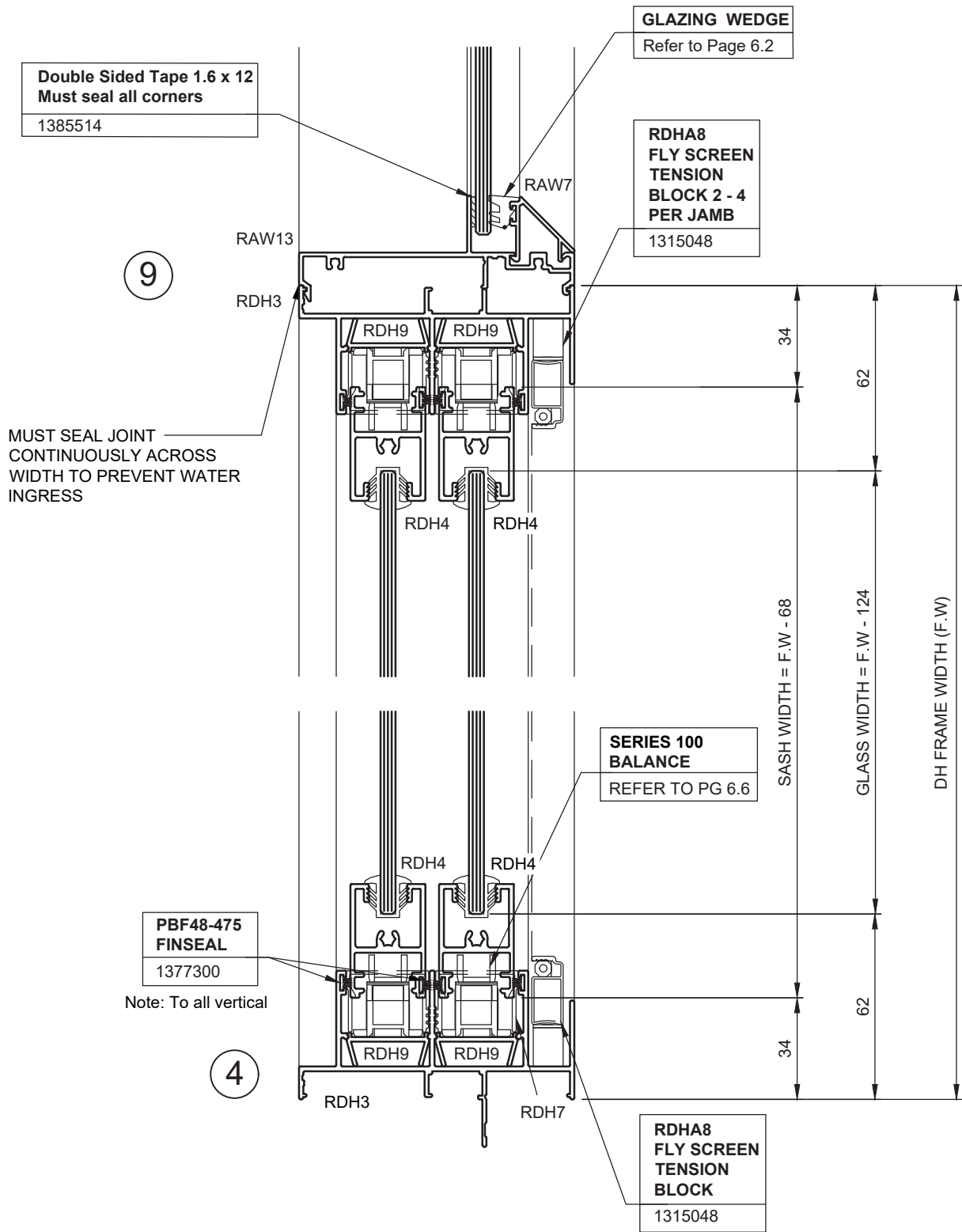
8. Typical Details

Horizontal Detail - Coupled with Double Hung



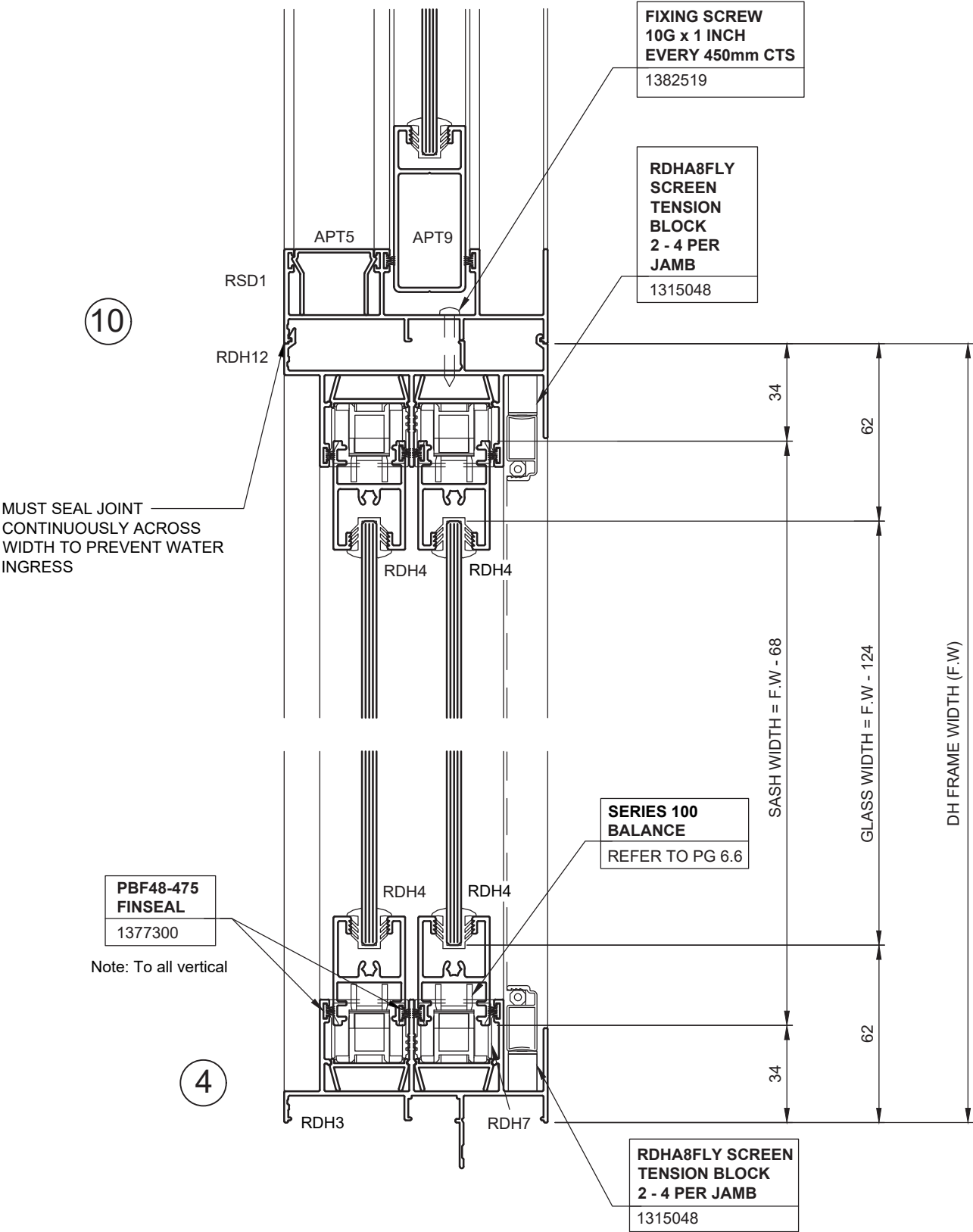
8. Typical Details

Horizontal Detail - Coupled with Fixed Window



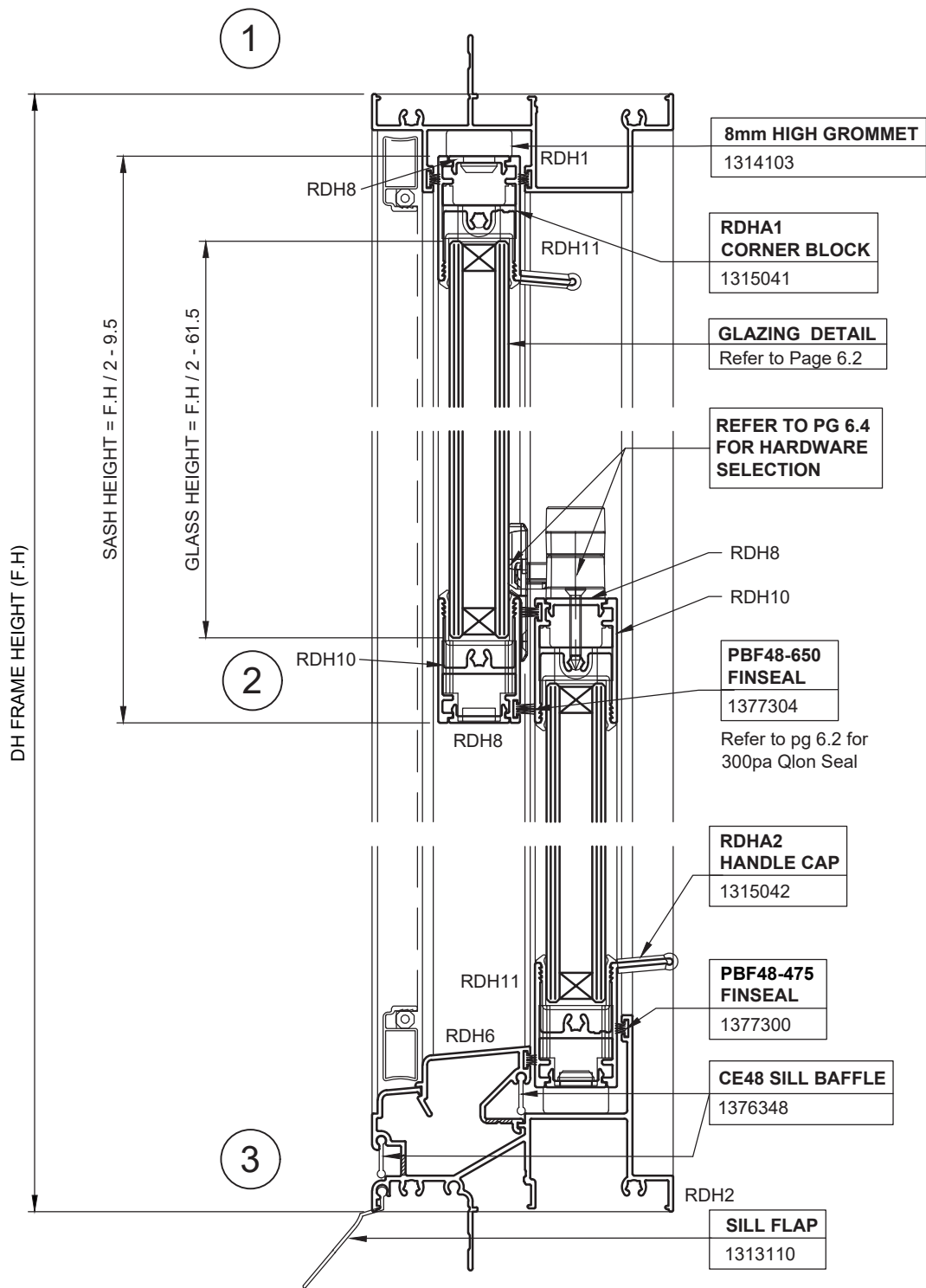
8. Typical Details

Horizontal Detail - Coupled with Sliding Door



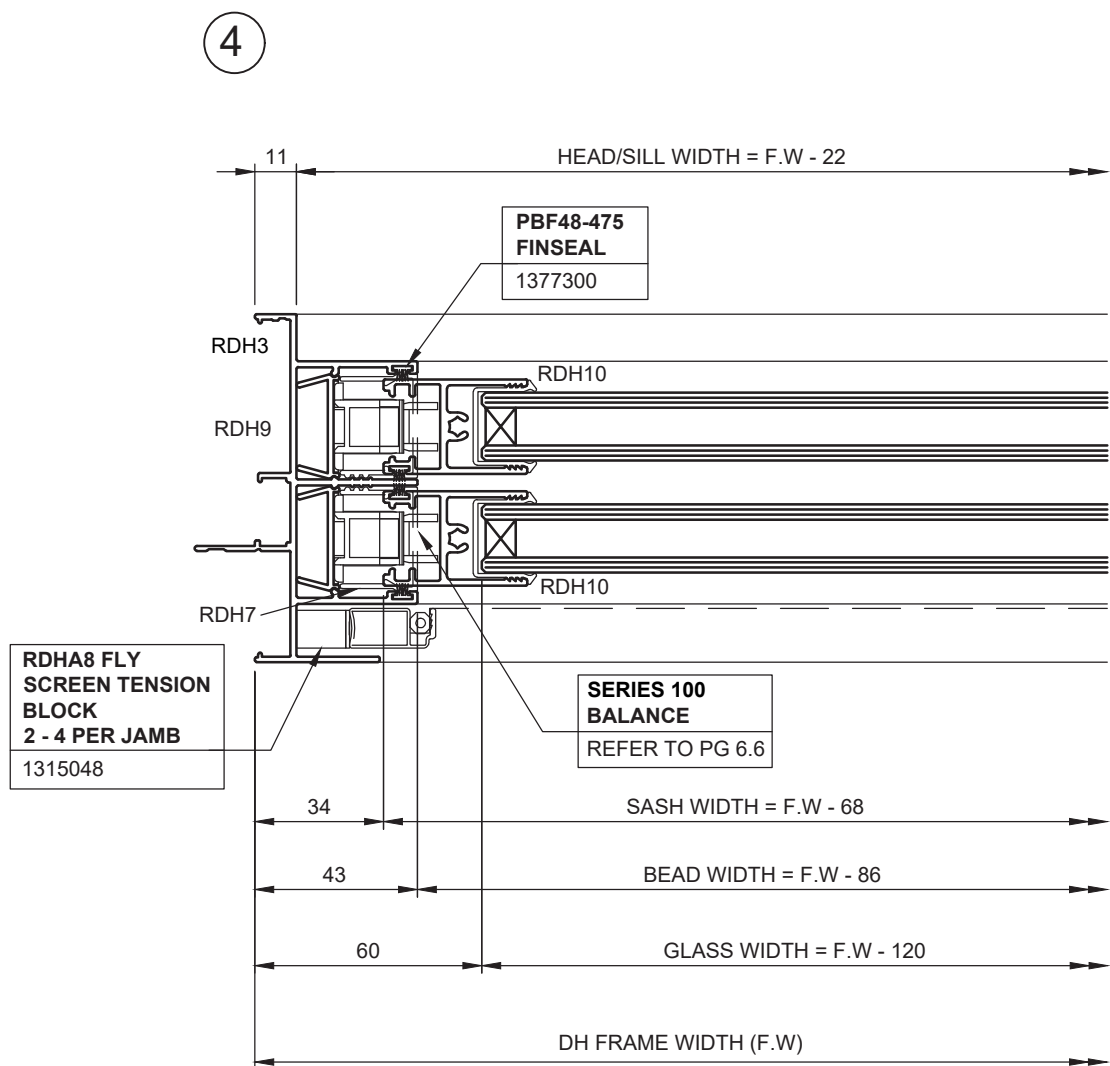
8. Typical Details

Vertical Detail - Double Glazed



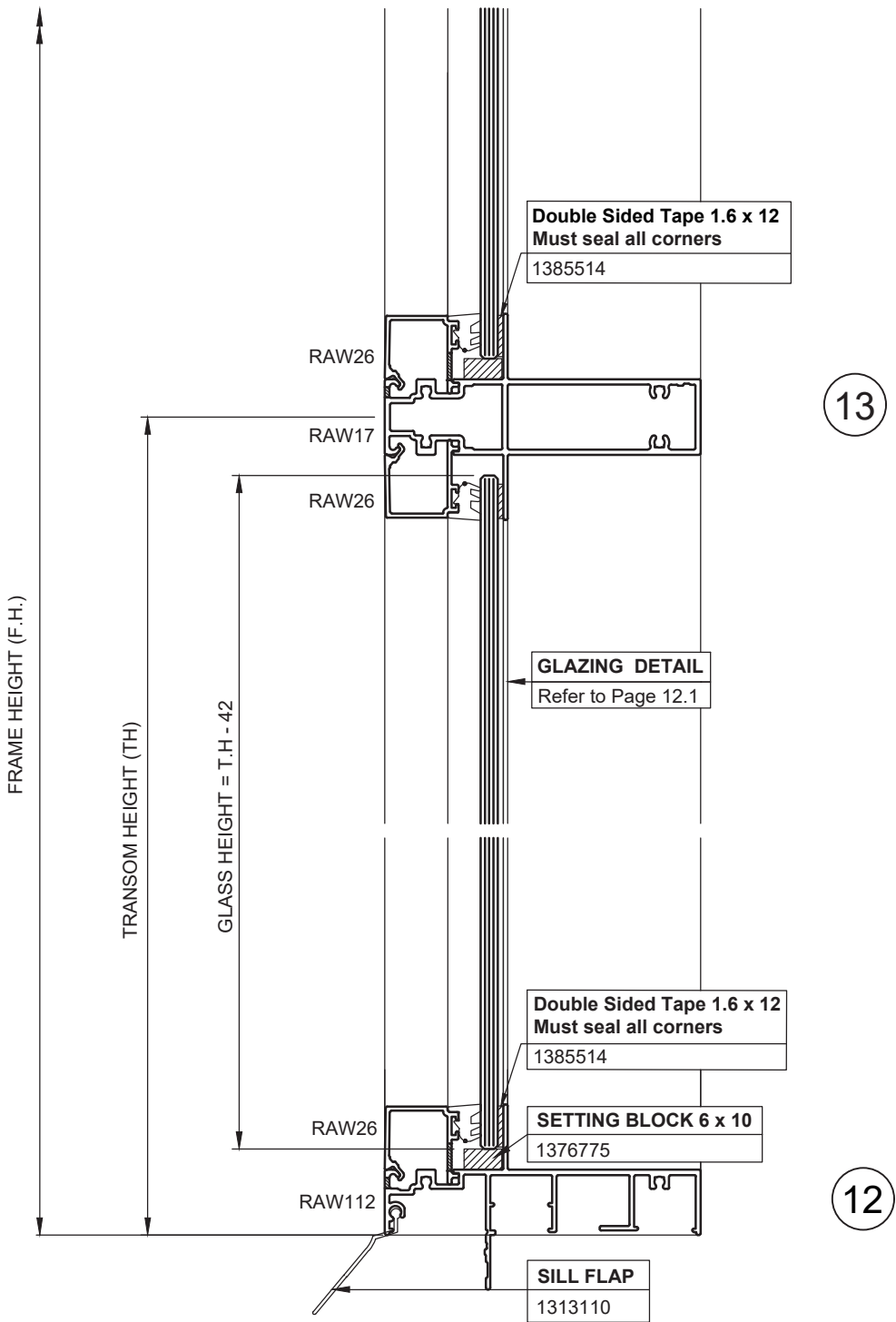
8. Typical Details

Horizontal Detail - Double Glazed



8. Typical Details

Vertical Detail - Fixed Light Coupled Transom



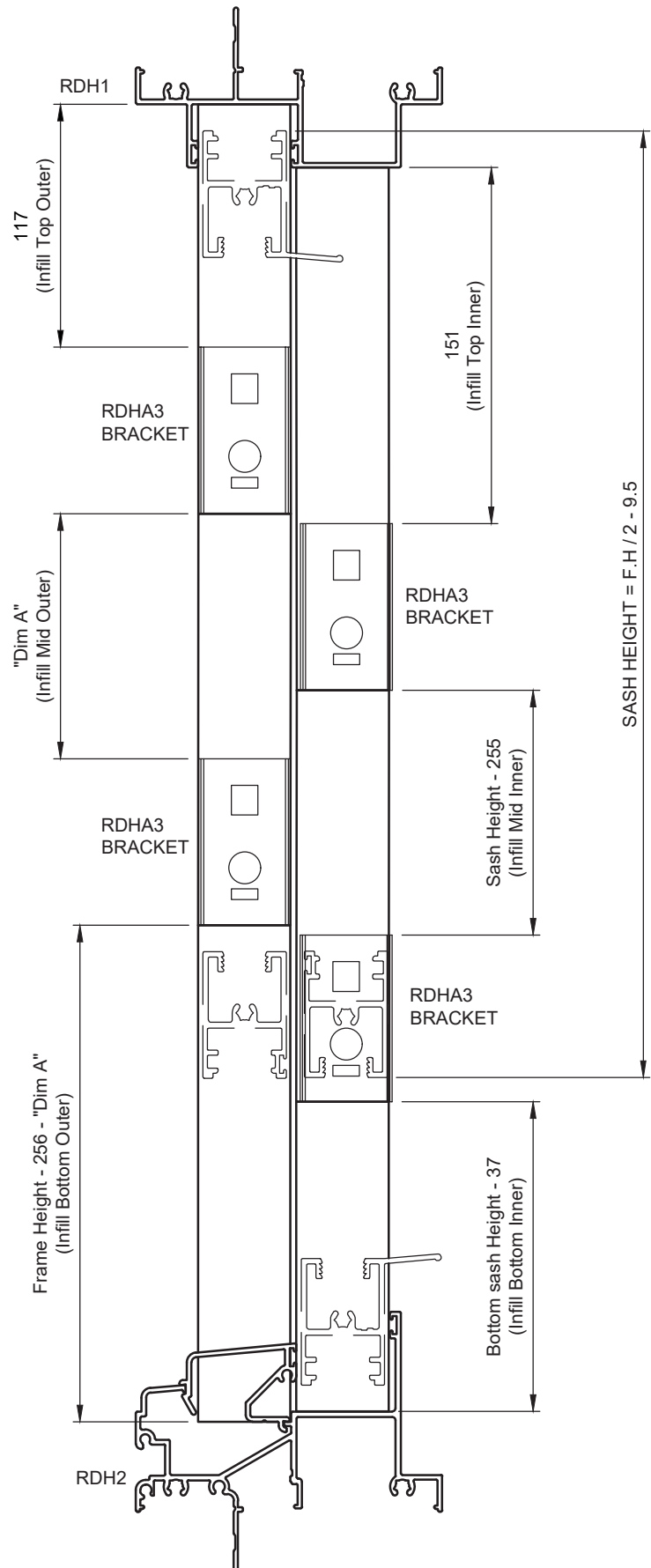
8. Typical Details

RDH9 Balance Infill Cut Formula

Top Sash Height	Dim A
435 - 486	180
487 - 537	231
538 - 588	282
589 - 639	333
640 - 690	384
691 - 741	435
742 - 792	486
793 - 843	537
844 - 894	588
895 - 945	639
946 - 996	690
997 - 1047	741
1048 - 1098	792
1099 - 1149	843
1150 - 1200	894



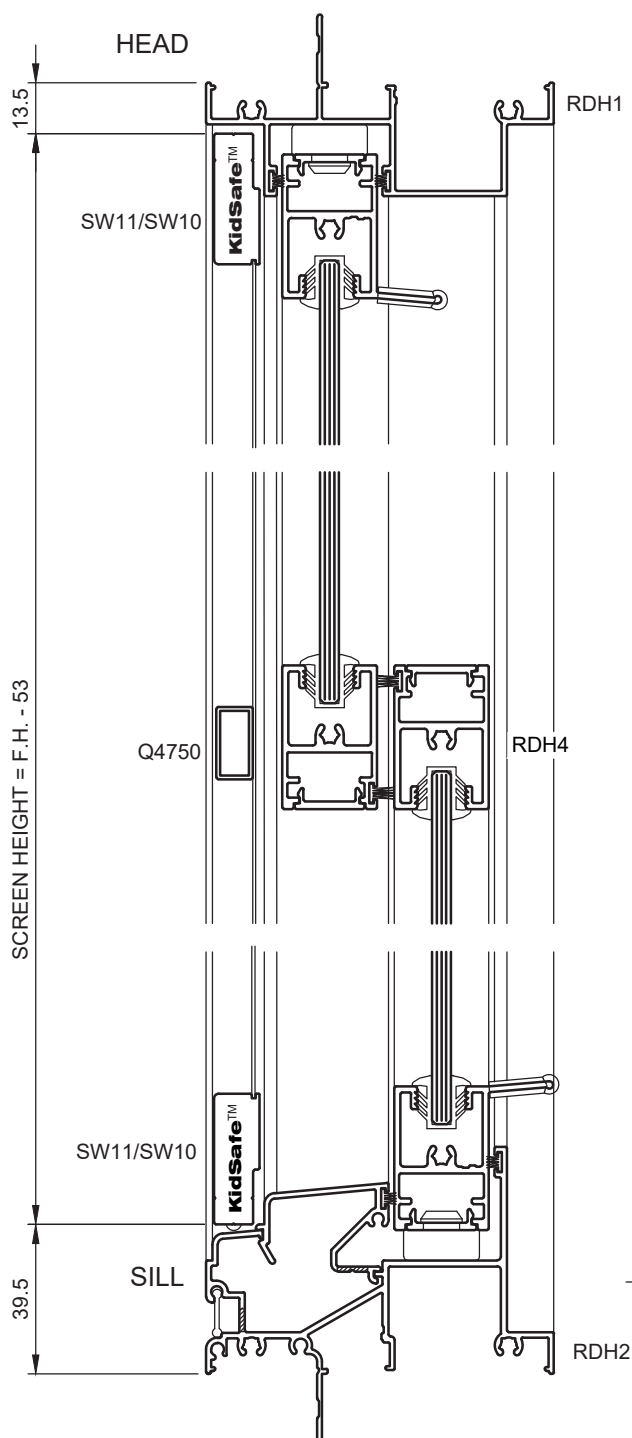
RDH9



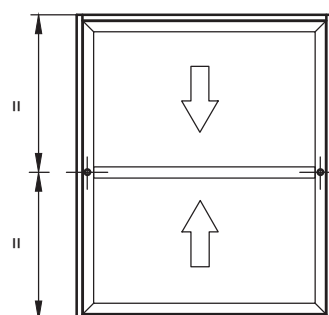
8. Typical Details

KidSafe Barrier Detail - 92mm Double Hung Window

Test Report Number - POW13-006



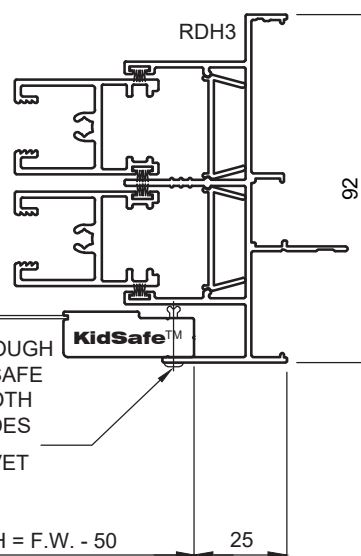
MINIMUM FIXING LOCATION



FIXING LOCATED ON EACH VERTICAL
THROUGH CENTER OF SCREEN & FRAME.
MINIMUM TOTAL 2 OFF.

MID-RAIL REQUIRED FOR >1500H SCREENS

JAMB



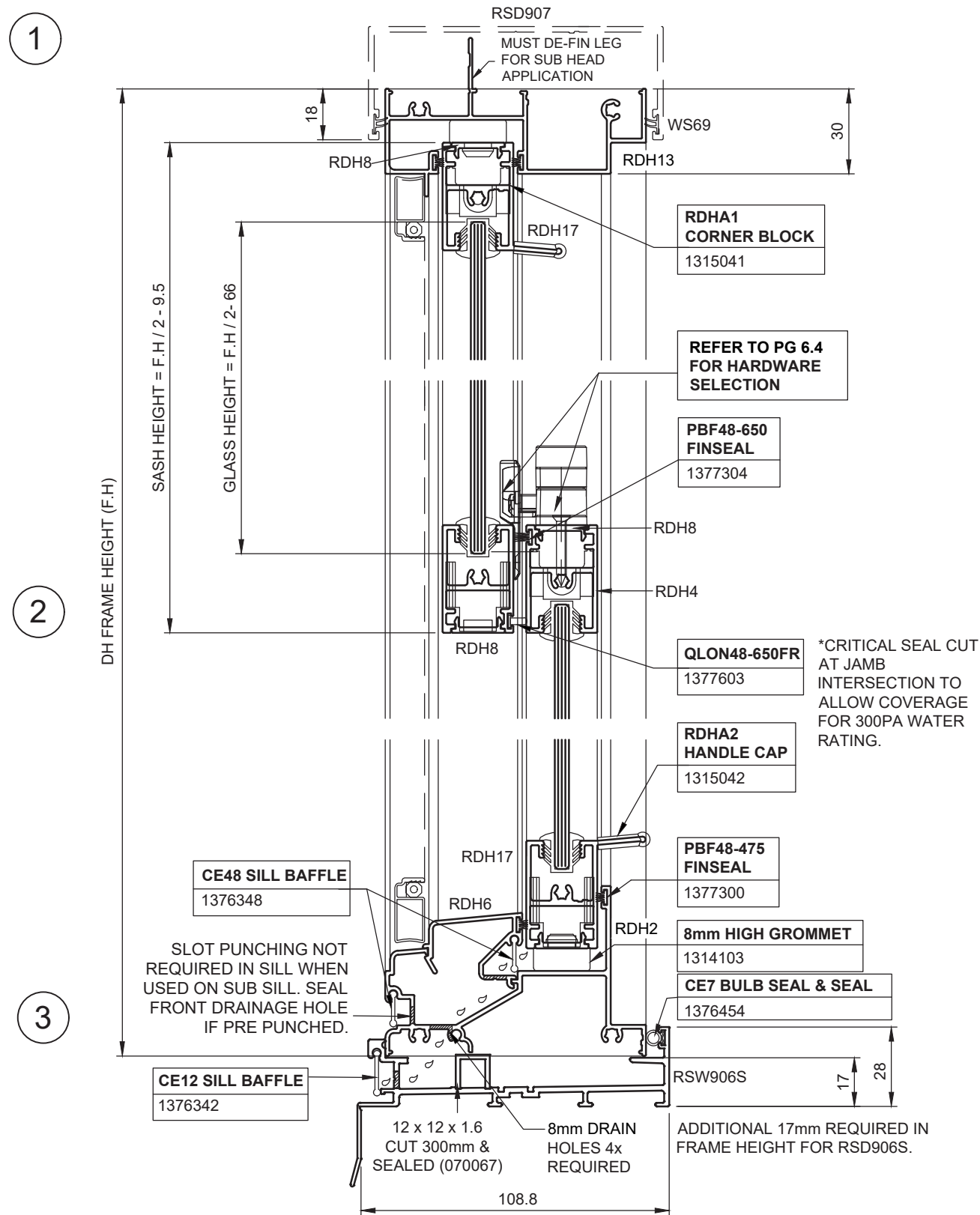
FIXINGS THROUGH
FIN INTO KIDSAFE
FRAME ON BOTH
VERTICAL SIDES
AS58 POP RIVET
1380070

SCREEN WIDTH = F.W. - 50

25

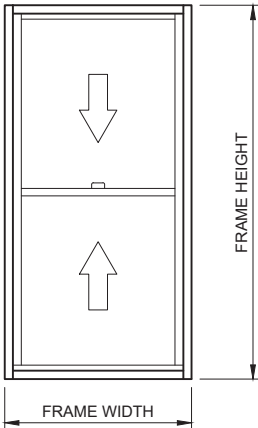
8. Typical Details

Vertical Detail - Std Sill & Sub Sill (RSD906S)



9. Cutting Formulas

Single Glazed

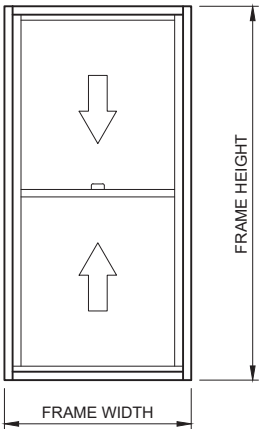


* MITRE CUT

PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	RDH1	HEAD	FRAME WIDTH - 22	1
	RDH2	SILL	FRAME WIDTH - 22	1
	RDH3	JAMB	FRAME HEIGHT	2
* 	RDH4	SASH	FRAME WIDTH - 68	2
* 	RDH17	SASH HANDLE	FRAME WIDTH - 68	2
* 	RDH4	SASH	FRAME HEIGHT/ 2 - 11	4
	RDH6	THRESHOLD	FRAME WIDTH - 86	1
	RDH8	CAPPING	FRAME WIDTH - 120	2
	RDH8	CAPPING	FRAME WIDTH - 75	2
	RDH7	STOP INFILL	LENGTH = 90mm	4
	RDH9	BALANCE INFILL	REFER TO PG 8.11	
* 	FS2	FLYSCREEN	FRAME HEIGHT - 53	2
* 	FS2	FLYSCREEN	FRAME WIDTH - 50	2
GLASS	HEIGHT		FRAME HEIGHT/ 2 - 65.5	2
	WIDTH		FRAME WIDTH - 124	

9. Cutting Formulas

Double Glazed

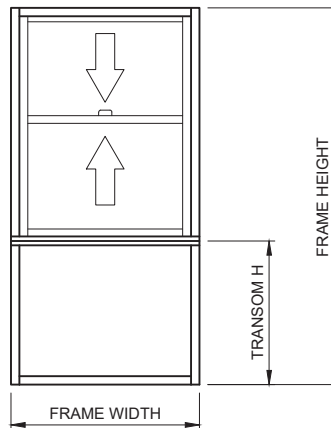


* MITRE CUT

PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	RDH1	HEAD	FRAME WIDTH - 22	1
	RDH2	SILL	FRAME WIDTH - 22	1
	RDH3	JAMB	FRAME HEIGHT	2
* 	RDH10	DG SASH	FRAME WIDTH - 68	2
* 	RDH11	DG SASH HANDLE	FRAME WIDTH - 68	2
* 	RDH10	DG SASH	FRAME HEIGHT/ 2 - 9.5	4
	RDH6	THRESHOLD	FRAME WIDTH - 86	1
	RDH8	CAPPING	FRAME WIDTH - 120	2
	RDH8	CAPPING	FRAME WIDTH - 75	2
	RDH7	STOP INFILL	LENGTH = 90mm	4
	RDH9	BALANCE INFILL	REFER TO PG 8.11	
* 	FS2	FLYSCREEN	FRAME HEIGHT - 53	2
* 	FS2	FLYSCREEN	FRAME WIDTH - 50	2
GLASS	HEIGHT		FRAME HEIGHT/ 2 - 61.5	2
	WIDTH		FRAME WIDTH - 120	

9. Cutting Formulas

Single Glazed with Lowlite

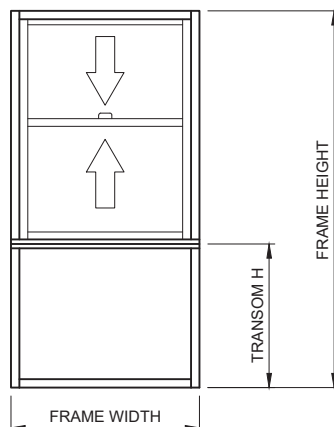


* MITRE CUT

PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	RDH1	HEAD	FRAME WIDTH - 22	1
	RDH2	SILL	FRAME WIDTH - 22	1
	RDH3	JAMB	FRAME H - TRANSOM H	2
*	RDH4	SASH	FRAME WIDTH - 68	2
*	RDH17	SASH HANDLE	FRAME WIDTH - 68	2
*	RDH4	SASH	FRAME H - TRANSOM H / 2 - 9.5	4
	RDH6	THRESHOLDS	FRAME WIDTH - 86	1
	RDH8	CAPPING	FRAME WIDTH - 120	1
	RDH8	CAPPING	FRAME WIDTH - 75	2
	RDH7	STOP INFILL	LENGTH = 90mm	4
	RDH9	BALANCE INFILL	REFER TO PG 8.11	
*	FS2	SCREEN	FRAME H - TRANSOM H - 53	2
*	FS2	SCREEN	FRAME WIDTH - 50	2
	RAW112	FRAME	TRANSOM HEIGHT - 11	2
	RAW112	FRAME	FRAME WIDTH - 38	1
	RAW13	92mm COUPLED MULLION - MALE	FRAME WIDTH	1
	RAW7	SG SLOPED BEAD	LOW LITE H - 32	2
	RAW7	SG SLOPED BEAD	FRAME WIDTH - 38.5	2
FIXEDLITE GLASS	HEIGHT		TRANSOM H - 42	1
	WIDTH		FRAME WIDTH - 50	
SASH GLASS	HEIGHT		FH - TH / 2 - 65.5	2
	WIDTH		FRAME WIDTH - 124	

9. Cutting Formulas

Double Glazed with Lowlite

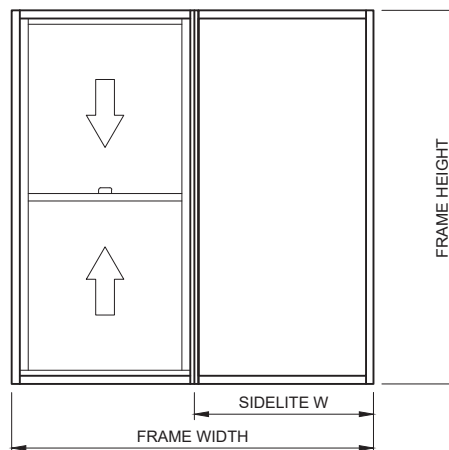


* MITRE CUT

PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	RDH1	HEAD	FRAME WIDTH - 22	1
	RDH2	SILL	FRAME WIDTH - 22	1
	RDH3	JAMB	FRAME H - TRANSOM H	2
*	RDH10	DG SASH	FRAME WIDTH - 68	2
*	RDH11	DG SASH HANDLE	FRAME WIDTH - 68	2
*	RDH10	DG SASH	FRAME H - TRANSOM H / 2 - 9.5	4
	RDH6	THRESHOLDS	FRAME WIDTH - 86	1
	RDH8	CAPPING	FRAME WIDTH - 120	1
	RDH8	CAPPING	FRAME WIDTH - 75	2
	RDH7	STOP INFILL	LENGTH = 90mm	4
	RDH9	BALANCE INFILL	REFER TO PG 8.11	
*	FS2	SCREEN	FRAME H - TRANSOM H - 53	2
*	FS2	SCREEN	FRAME WIDTH - 50	2
	RAW112	FRAME	TRANSOM HEIGHT - 11	2
	RAW112	FRAME	FRAME WIDTH - 38	1
	RAW13	92mm COUPLED MULLION - MALE	FRAME WIDTH	1
	RAW10	DG BEAD	LOW LITE H - 38.5	2
	RAW10	DG BEAD	FRAME WIDTH - 68.5	2
FIXEDLITE GLASS	HEIGHT		TRANSOM H - 42	1
	WIDTH		FRAME WIDTH - 50	
SASH GLASS	HEIGHT		FH - TH / 2 - 65.5	2
	WIDTH		FRAME WIDTH - 124	

9. Cutting Formulas

Single Glazed with Sidelite

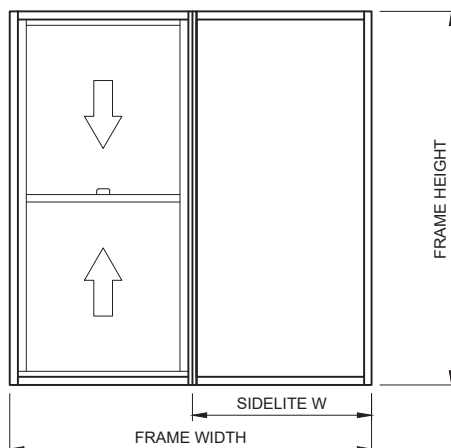


* MITRE CUT

PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	RDH1	HEAD	FRAME W - SIDELITE W - 22	1
	RDH2	SILL	FRAME WIDTH - 22	1
	RDH3	JAMB	FRAME HEIGHT	2
	RAW7	SG SLOPED BEAD	FRAME W - SIDELITE W - 30.5	2
*	RDH17	SASH HANDLE	FRAME W - SIDELITE W - 68	2
*	RAW7	SG SLOPED BEAD	FRAME HEIGHT - 40	4
*	RDH6	THRESHOLDS	FRAME W - SIDELITE W - 86	1
	RDH8	CAPPING	FRAME WIDTH - 120	2
	RDH8	CAPPING	FRAME WIDTH - 75	2
	RDH7	STOP INFILL	LENGTH = 90mm	4
	RDH9	BALANCE INFILL	REFER TO PG 8.11	
*	FS2	SCREEN	FRAME H - 53	2
*	FS2	SCREEN	FRAME W - SIDELITE W - 50	2
	RAW112	FRAME	TRANSOM HEIGHT	1
	RAW112	FRAME	SIDELITE W - 30	2
	RAW13	92mm COUPLED MULLION - MALE	FRAME HEIGHT	1
*	RDH4	SASH	FRAME H / 2 - 9.5	4
*	RDH4	SASH	FRAME W - SIDELITE W - 68	2
FIXEDLITE GLASS	HEIGHT		TRANSOM H - 50	1
	WIDTH		SIDELITE FRAME W - 42	
SASH GLASS	HEIGHT		FRAME HEIGHT / 2 - 65.5	2
	WIDTH		FRAME W - SIDELITE W - 124	

9. Cutting Formulas

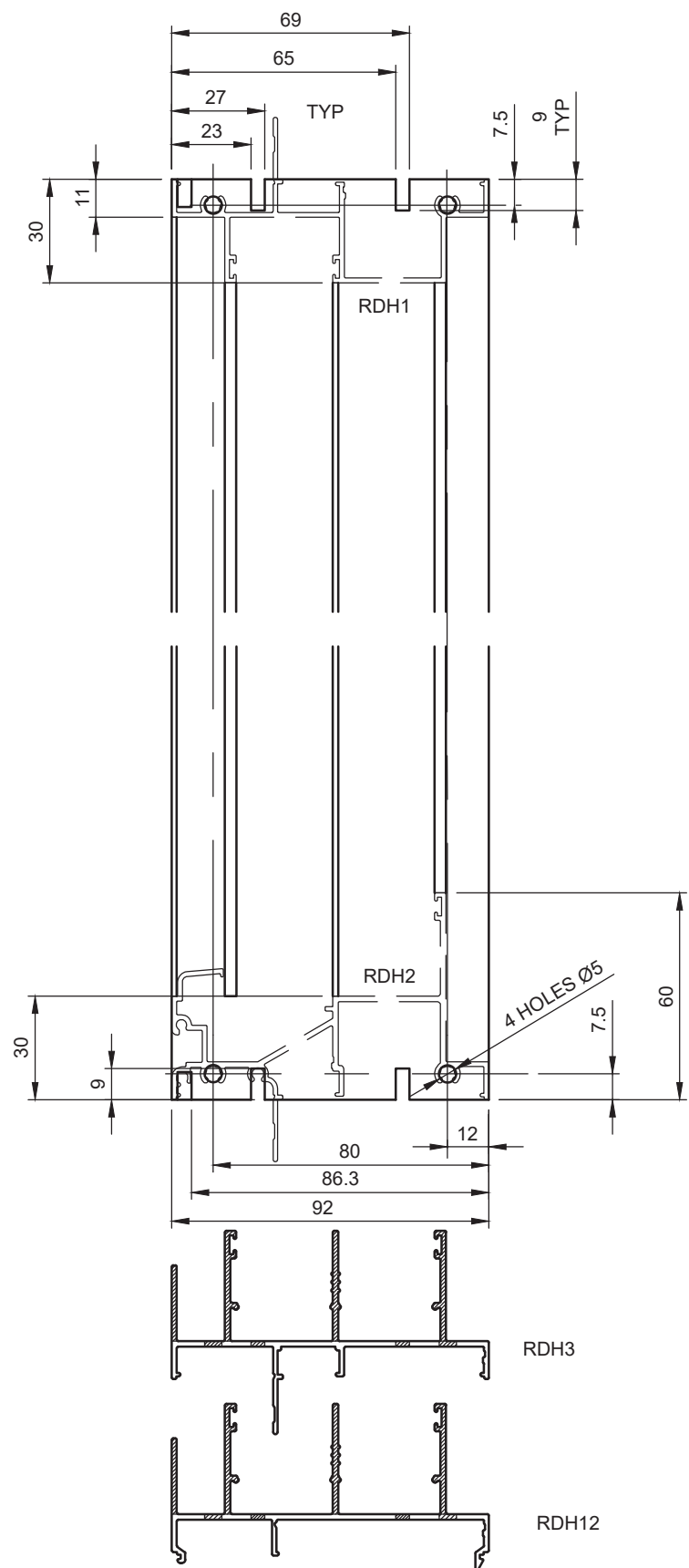
Double Glazed with Sidelite



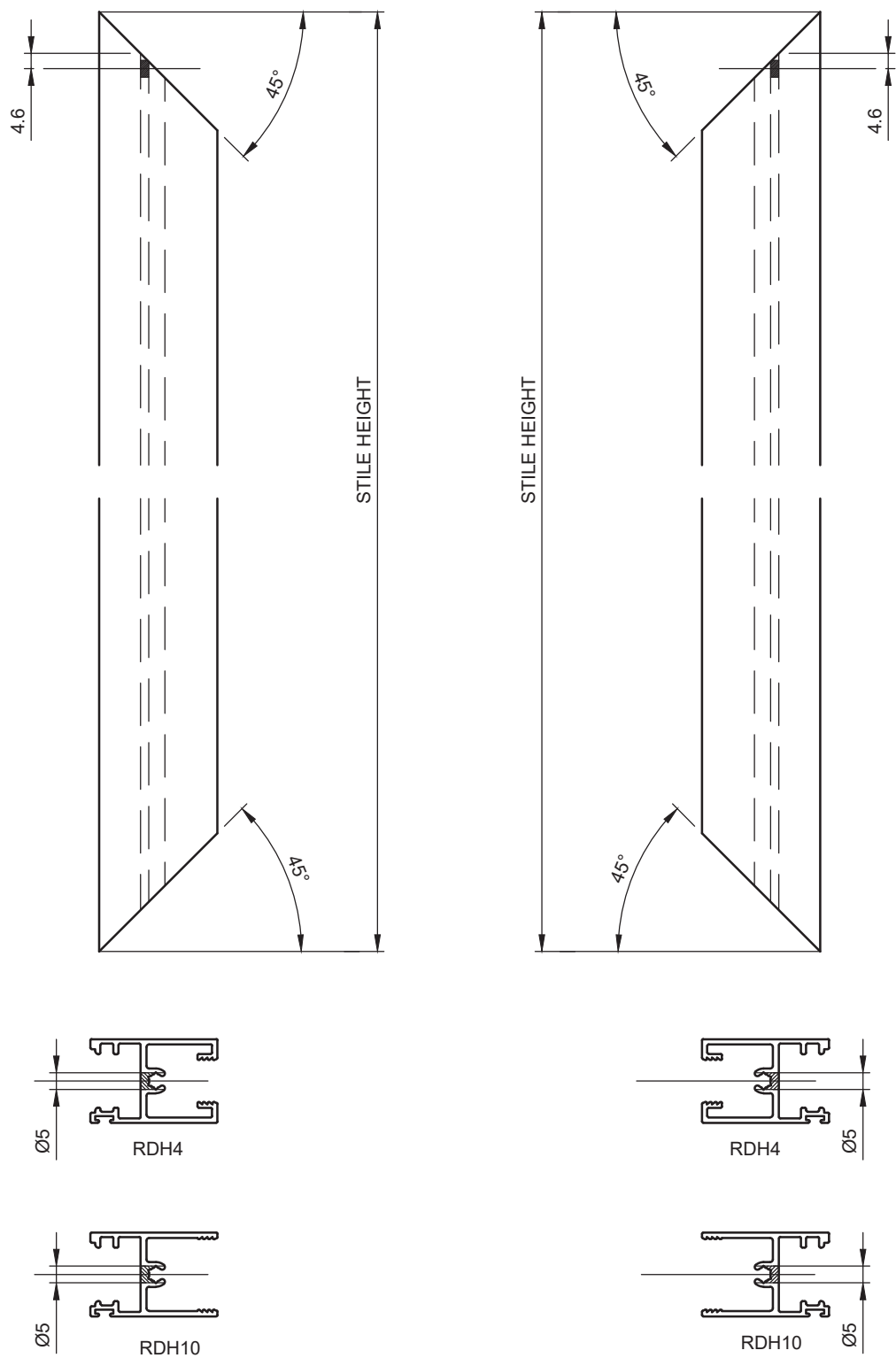
* MITRE CUT

PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	RDH1	HEAD	FRAME W - SIDELITE W - 22	1
	RDH2	SILL	FRAME WIDTH - 22	1
	RDH3	JAMB	FRAME HEIGHT	2
*	RAW10	DG BEAD	FRAME W - SIDELITE W - 30.5	2
*	RDH11	DG SASH HANDLE	FRAME W - SIDELITE W - 68	2
*	RAW10	DG BEAD	FRAME HEIGHT - 76.5	4
	RDH6	THRESHOLDS	FRAME W - SIDELITE W - 86	1
	RDH8	CAPPING	FRAME WIDTH - 120	2
	RDH8	CAPPING	FRAME WIDTH - 75	2
	RDH7	STOP INFILL	LENGTH = 90mm	4
	RDH9	BALANCE INFILL	REFER TO PG 8.11	
*	FS2	SCREEN	FRAME H - 53	2
*	FS2	SCREEN	FRAME W - SIDELITE W - 50	2
	RAW112	FRAME	TRANSOM HEIGHT	1
	RAW112	FRAME	SIDELITE W - 30	2
	RAW13	92mm COUPLED MULLION -MALE	FRAME HEIGHT	1
*	RDH10	DG SASH	FRAME H /2 - 9.5	4
*	RDH10	DG SASH	FRAME W - SIDELITE W - 68	2
FIXEDLITE GLASS	HEIGHT		TRANSOM H - 50	1
	WIDTH		SIDELITE FRAME W - 42	
SASH GLASS	HEIGHT		FRAME HEIGHT /2 - 61.5	2
	WIDTH		FRAME W - SIDELITE W - 120	

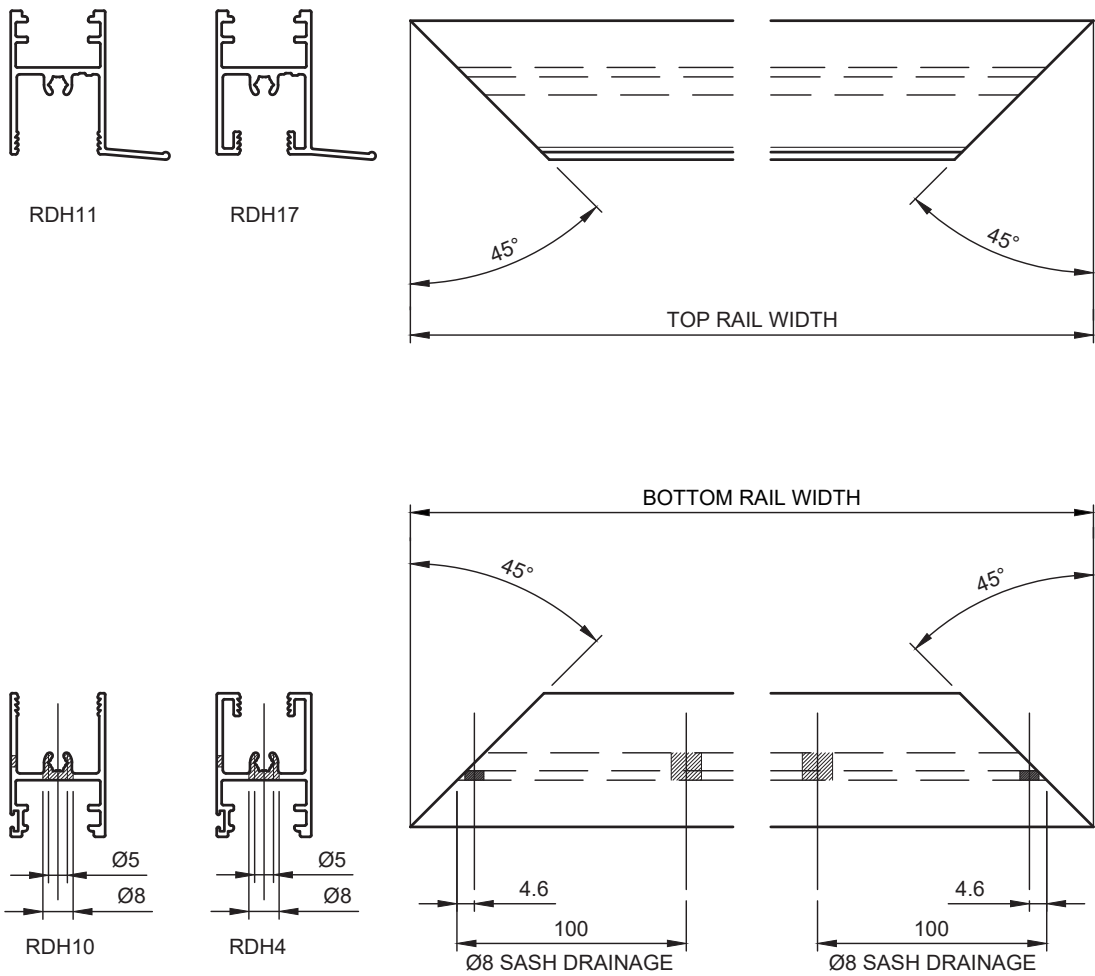
Jamb Mullion Preparation



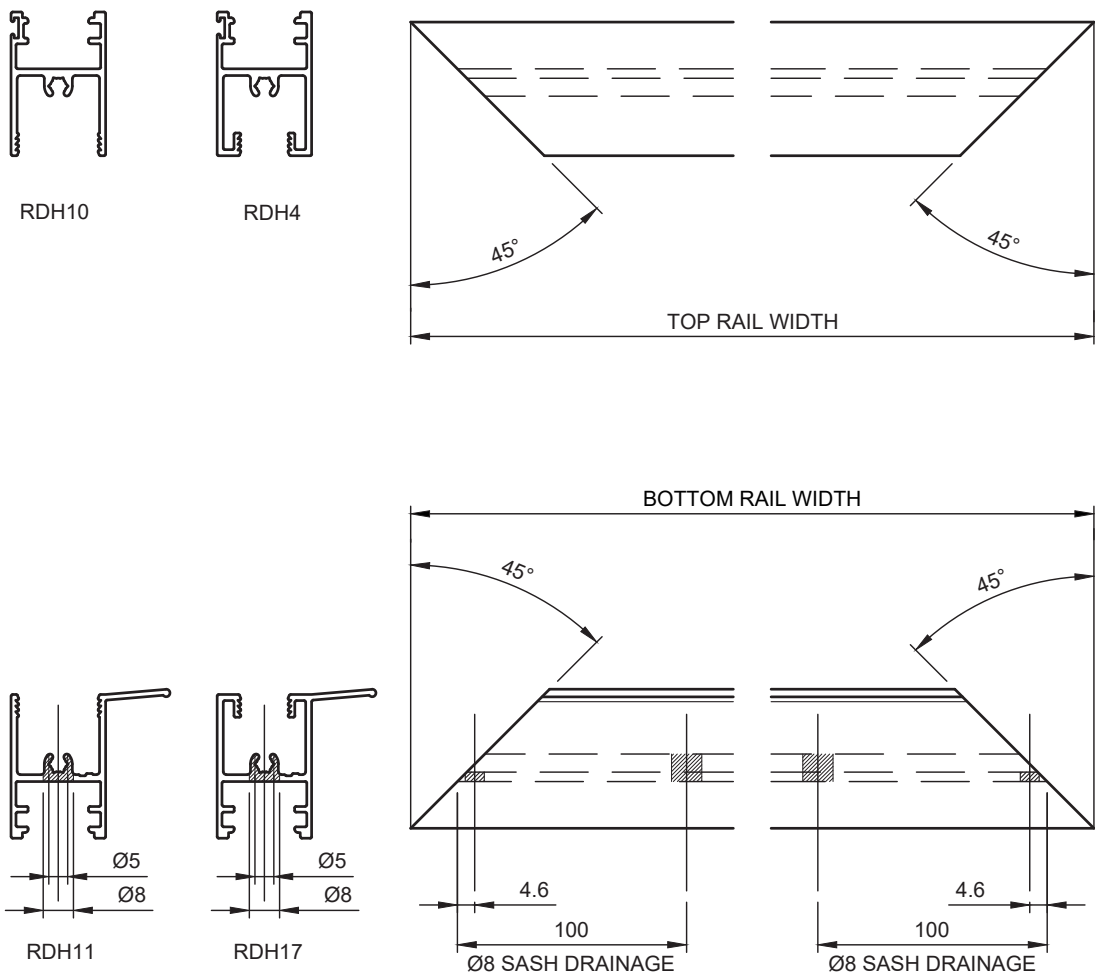
Sash Stile Preparation



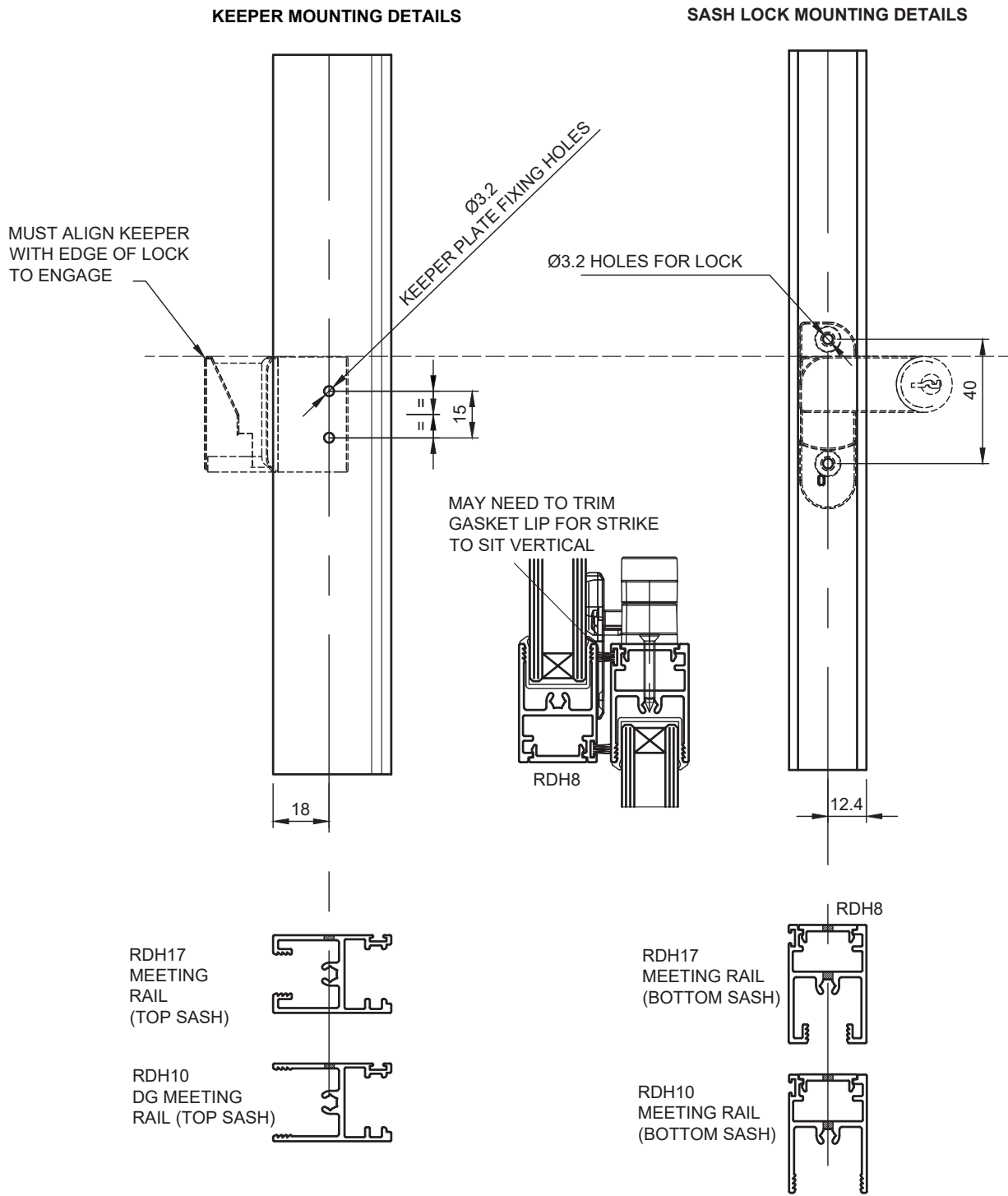
Rail Preparation (Upper Sash)



Rail Preparation (Bottom Sash)

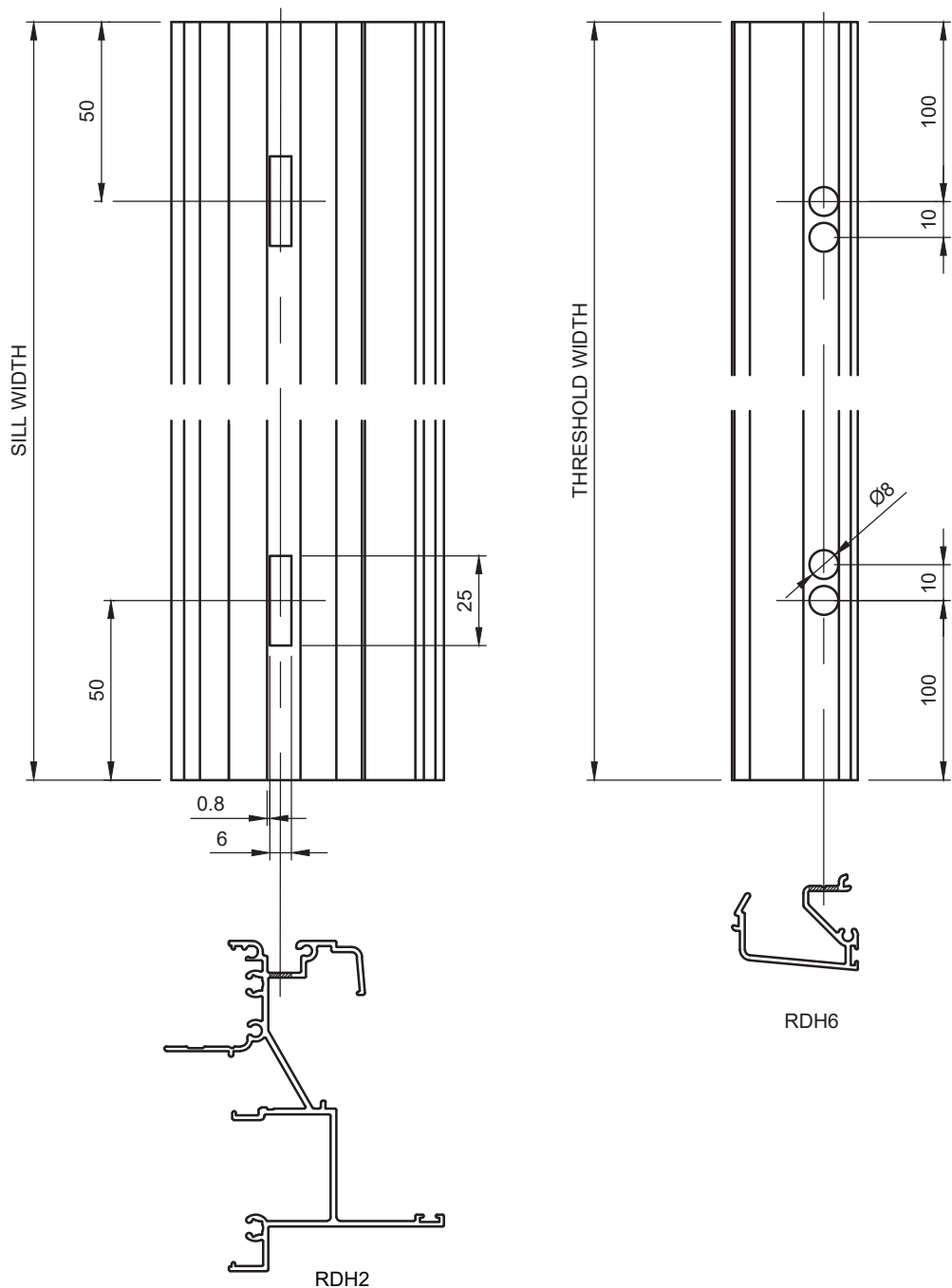


Rail Preparation for Alspec Lock

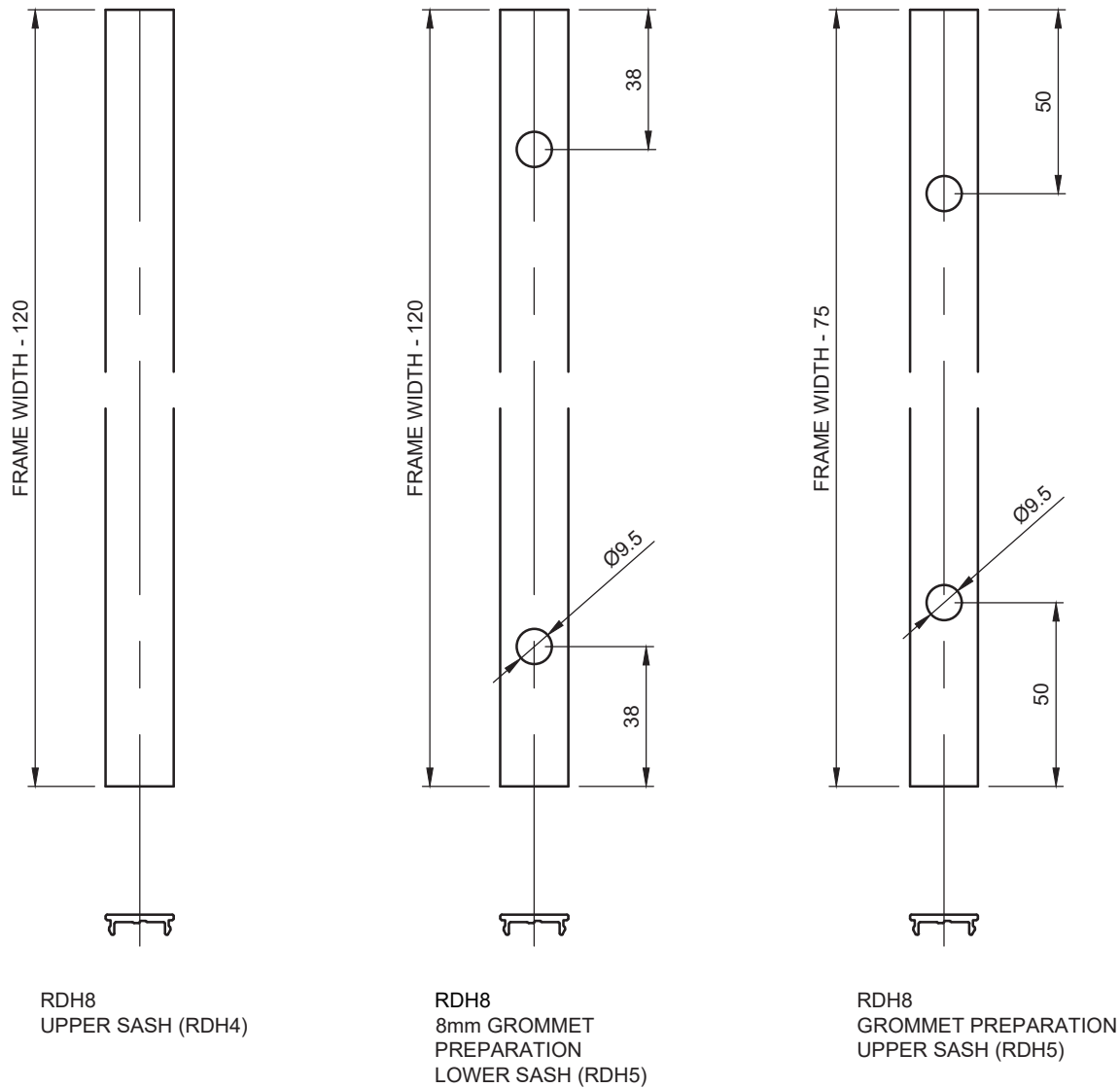


10. Manufacturing Details

Sill Drainage Preparation

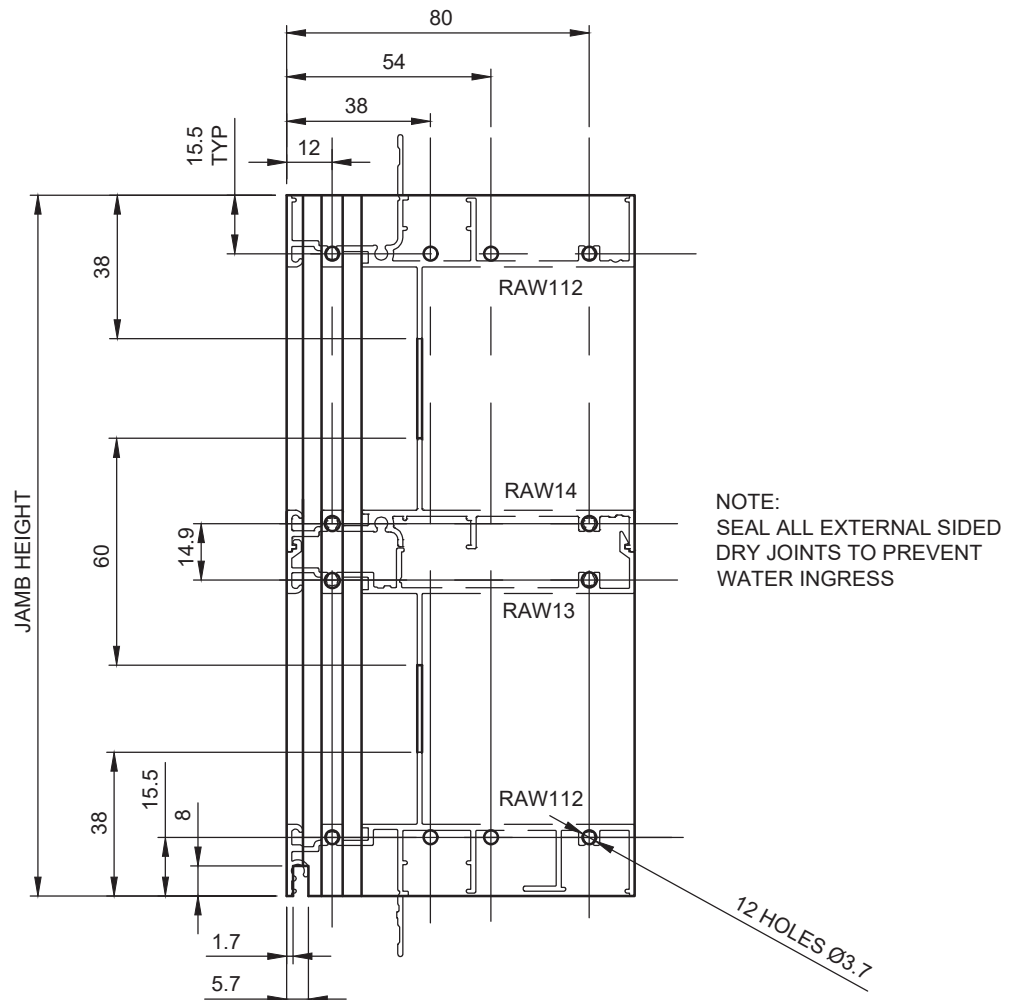


RDH8 Capping Preparation



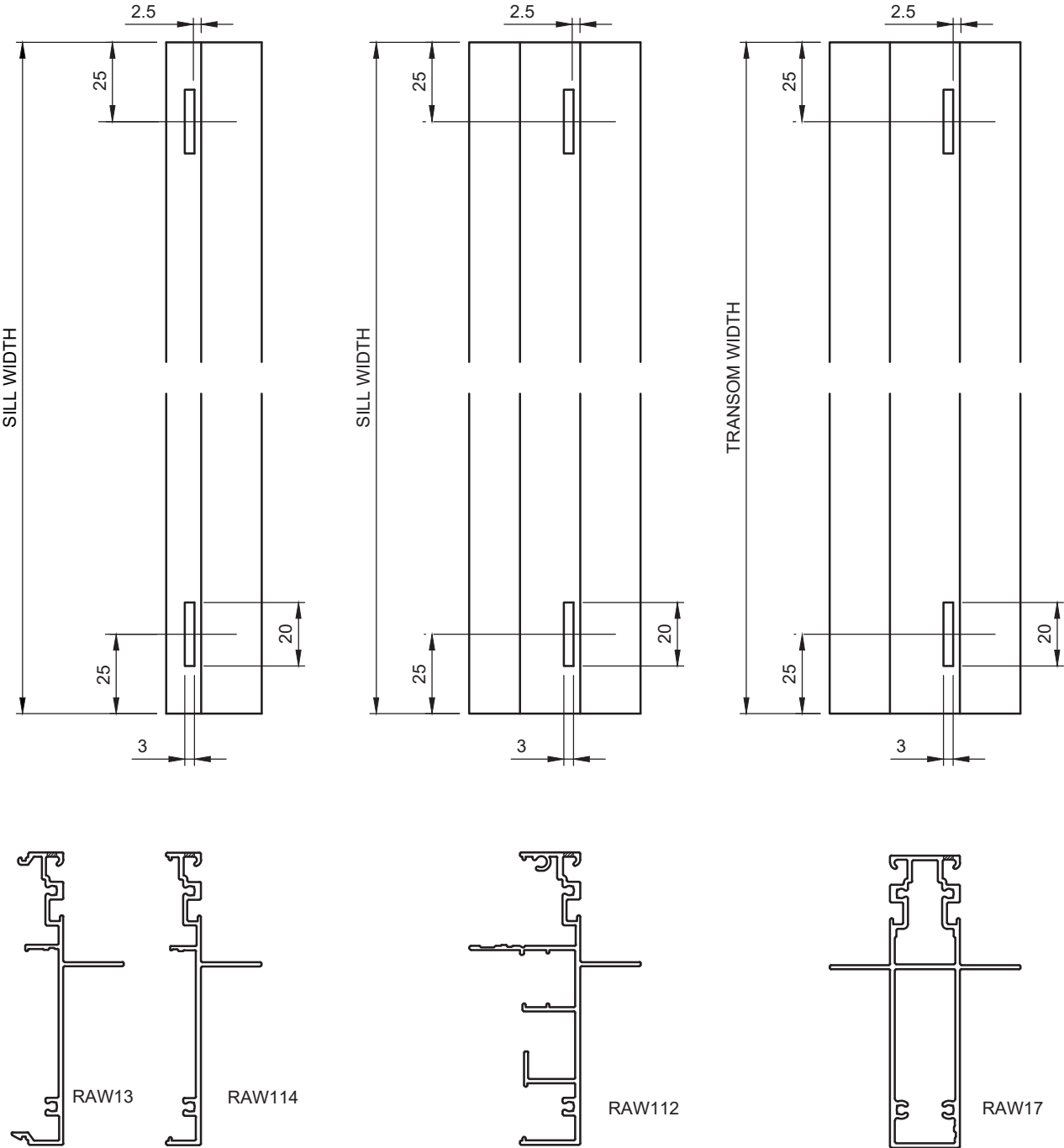
10. Manufacturing Details

Fixed Lite Transom Preparation



NOTE: THIS MACHINING DETAIL IS PUNCHED IN THE CARINYA AWNING WINDOW TOOL ONLY

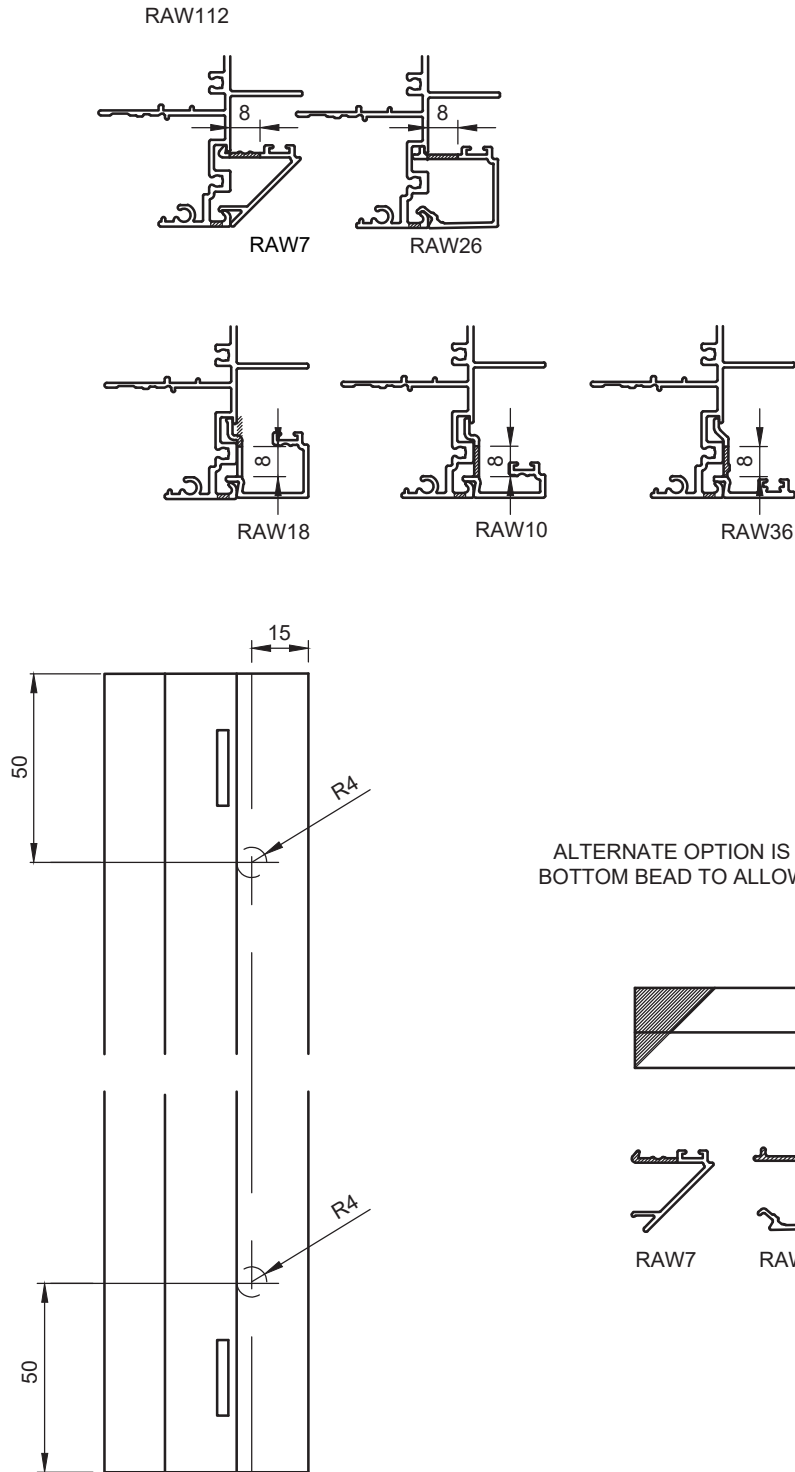
Fixed Lite Frame - Drainage Preparation



NOTE: THIS MACHINING DETAIL IS NOT AVAILABLE IN STANDARD TOOL. OPTIONAL TOOL IS AVAILABLE FOR SILL DRAINAGE

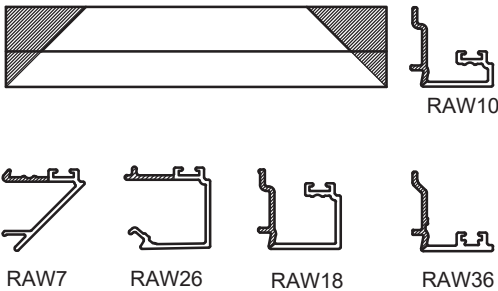
Fixed Lite Bead - Drainage Preparation for Bottom Sill

OPTION 1



OPTION 2

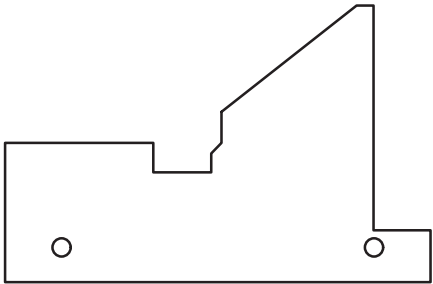
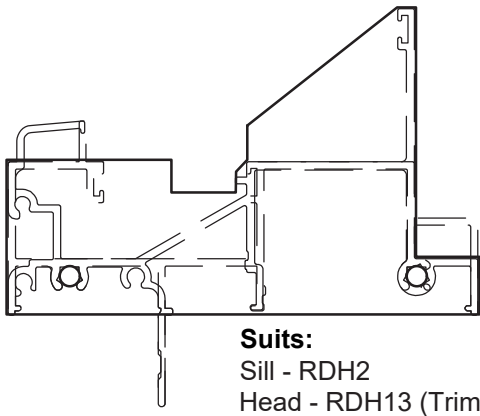
ALTERNATE OPTION IS TO TRIM OF ENDS OF
BOTTOM BEAD TO ALLOW WATER TO EGRESS



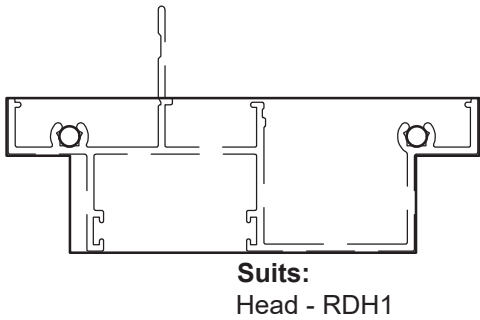
NOTE: THIS IS NOT AVAILABLE IN THE STANDARD TOOL. AN OPTIONAL TOOL CAN BE AVAILABLE FOR RAW7 & RAW26.

11. Assembly Details

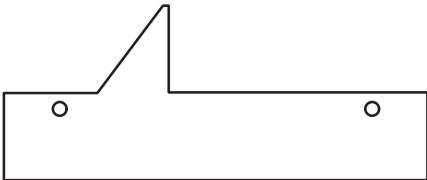
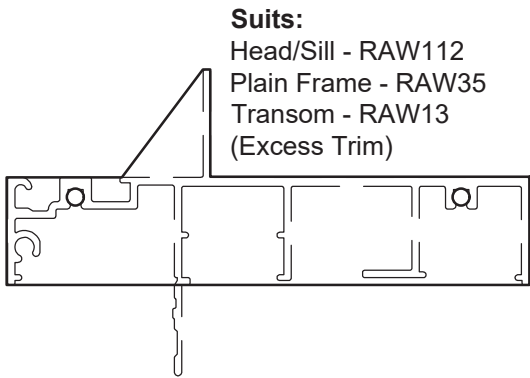
Frame Joint Gasket Assembly Detail



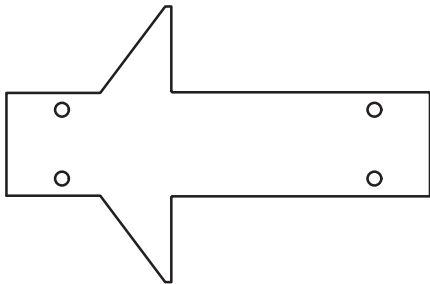
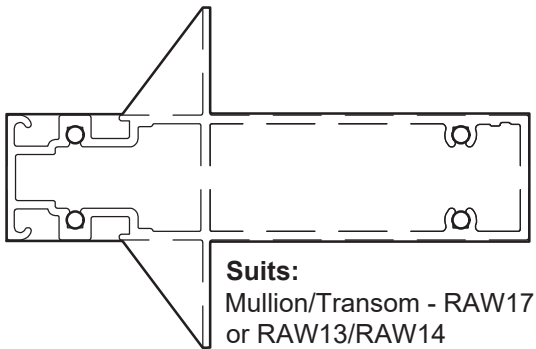
RDHA5 92mm Sill Joint Gasket
Part # 1315045
Finish: Black (034)
Qty:445 Pairs Per Roll



RDHA4 92mm Head Joint Gasket
Part # 1315044
Finish: Black (034)
Qty:600 Pairs Per Roll



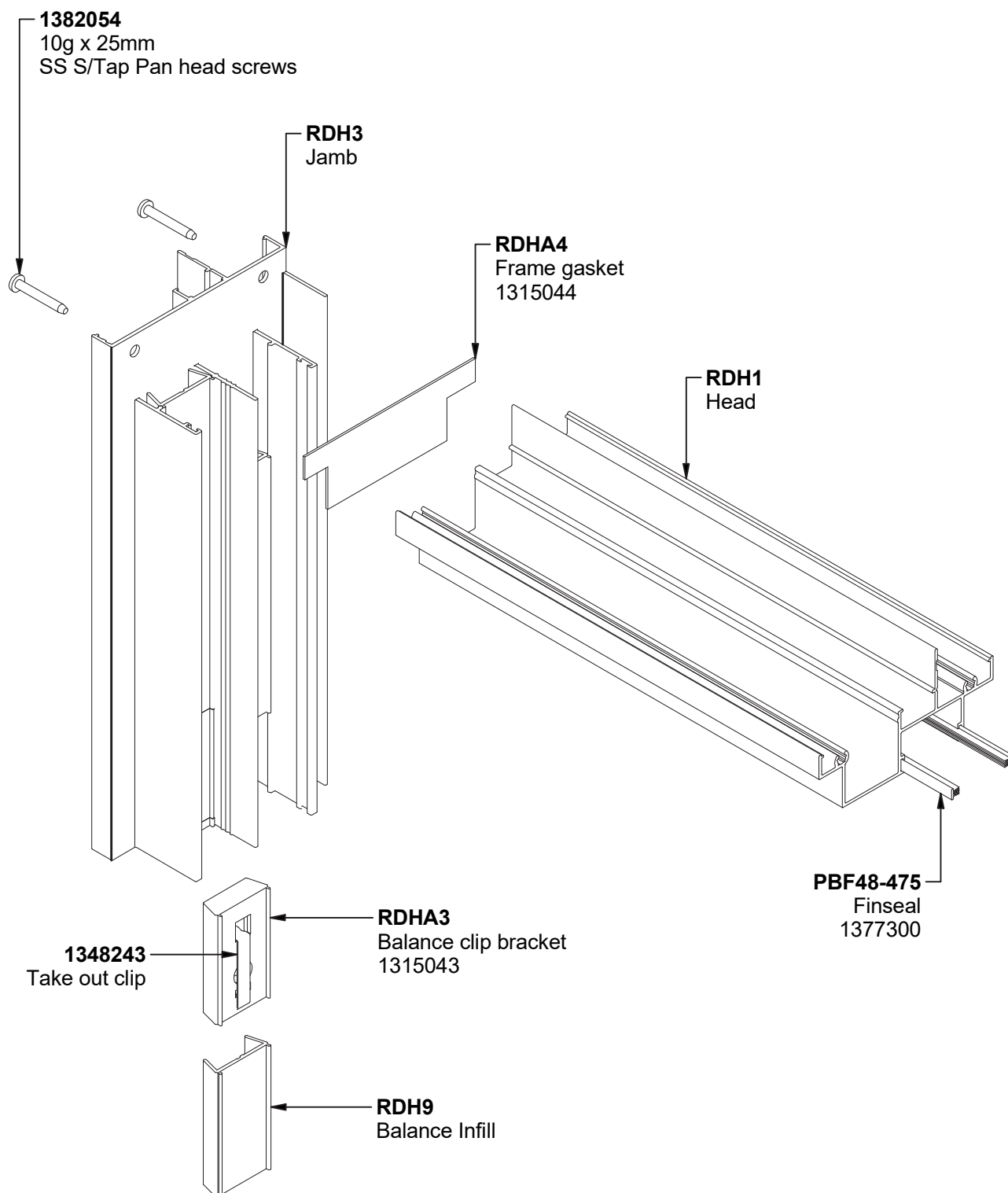
RAWA10 - 92mm Frame Gasket
Part # 1315060
Finish: Black (034)
Qty: 445 Pairs Per Roll



RAWA6 - 92mm Mullion/Transom Gasket
Part # 1315056
Finish: Black (034)
Qty: 445 Pairs Per Roll

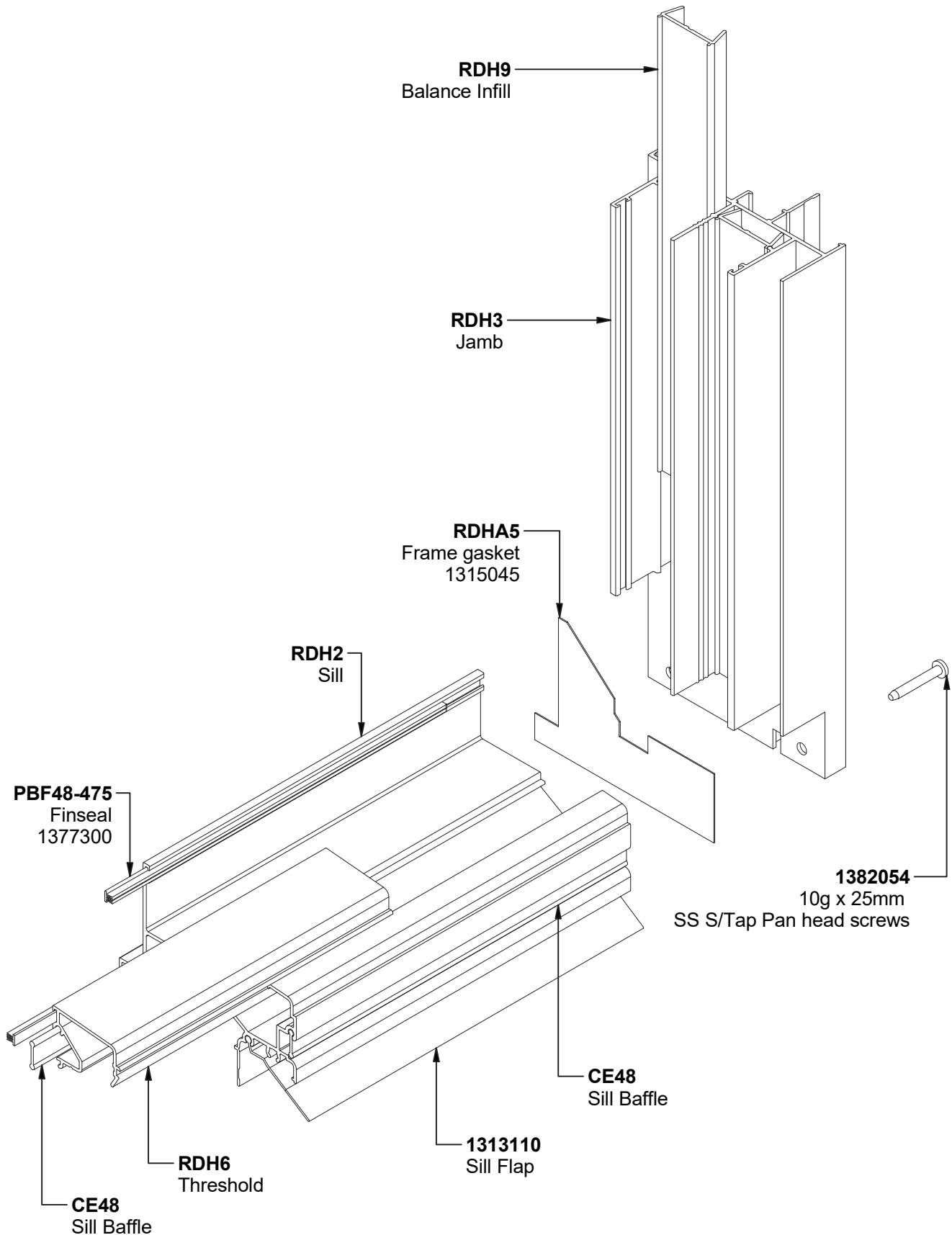
11. Assembly Details

Head Assembly



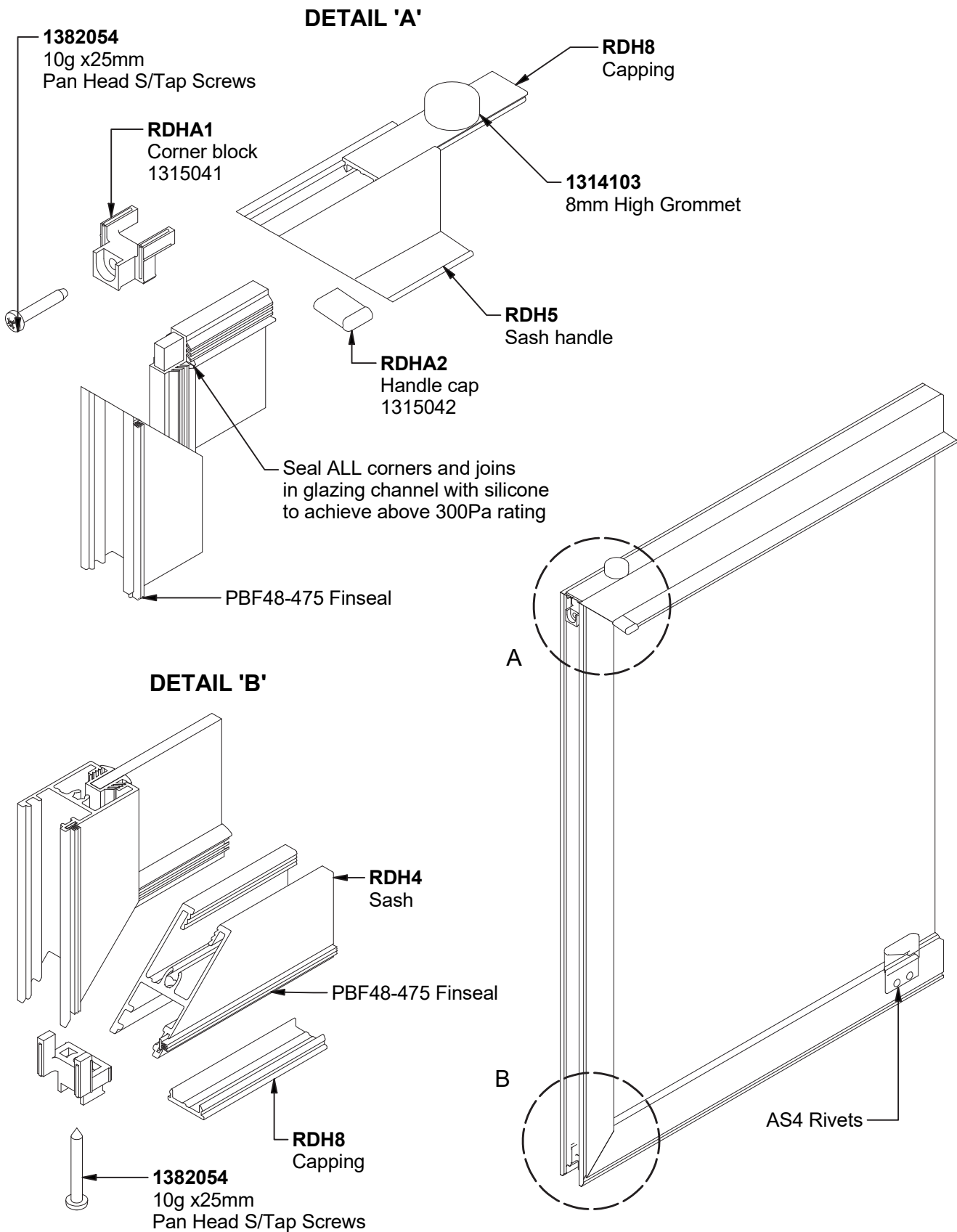
11. Assembly Details

Sill Assembly



11. Assembly Details

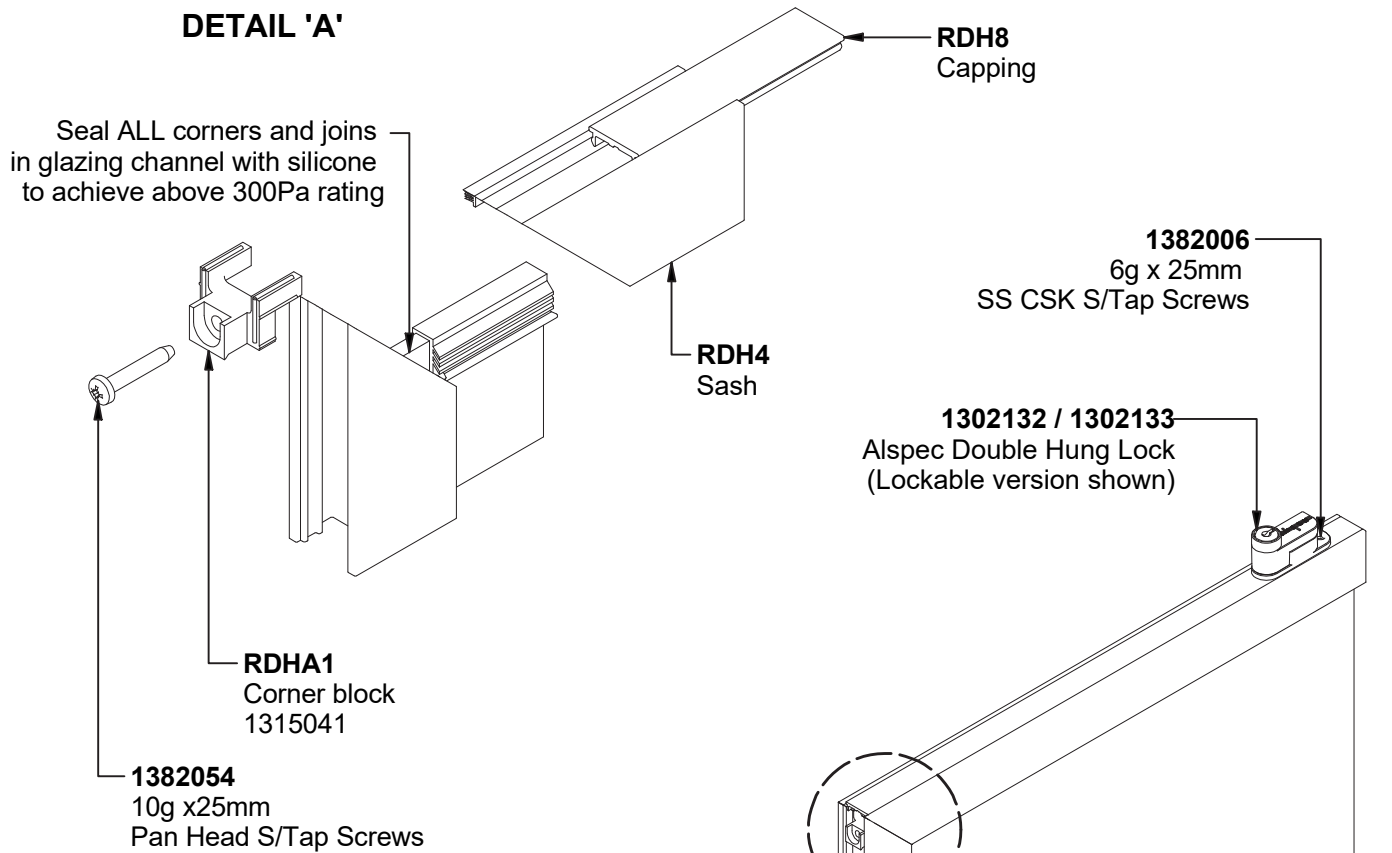
Top Sash Assembly



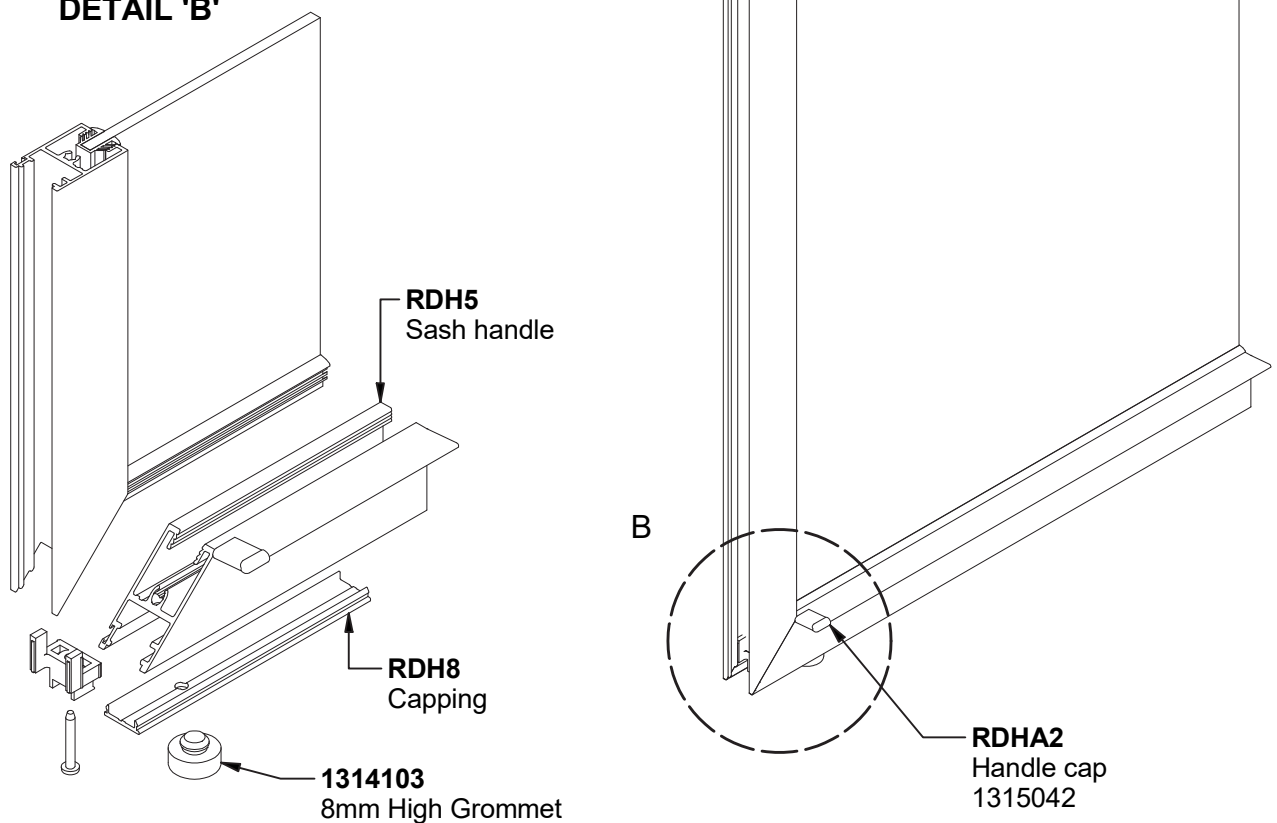
11. Assembly Details

Bottom Sash Assembly

DETAIL 'A'

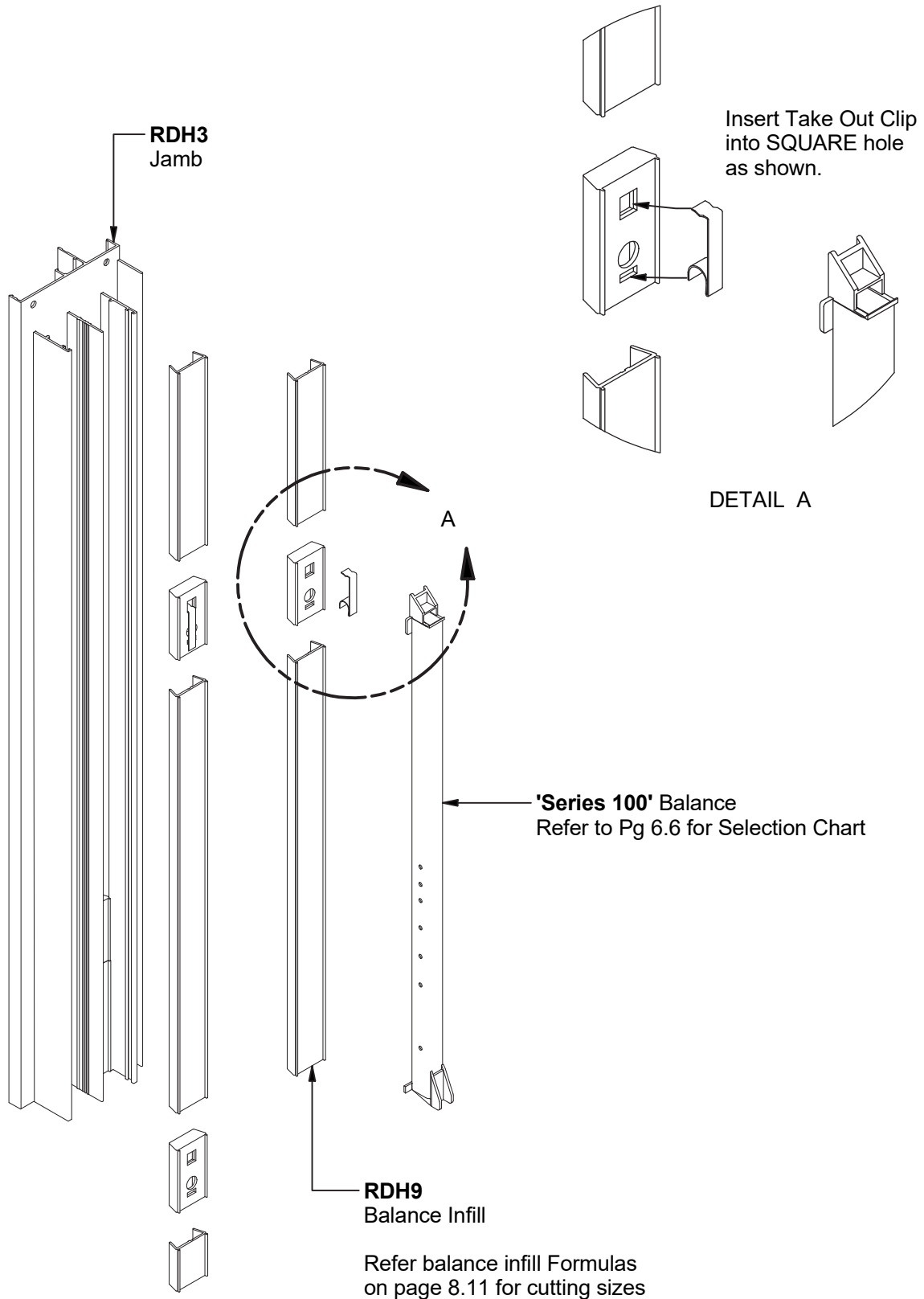


DETAIL 'B'



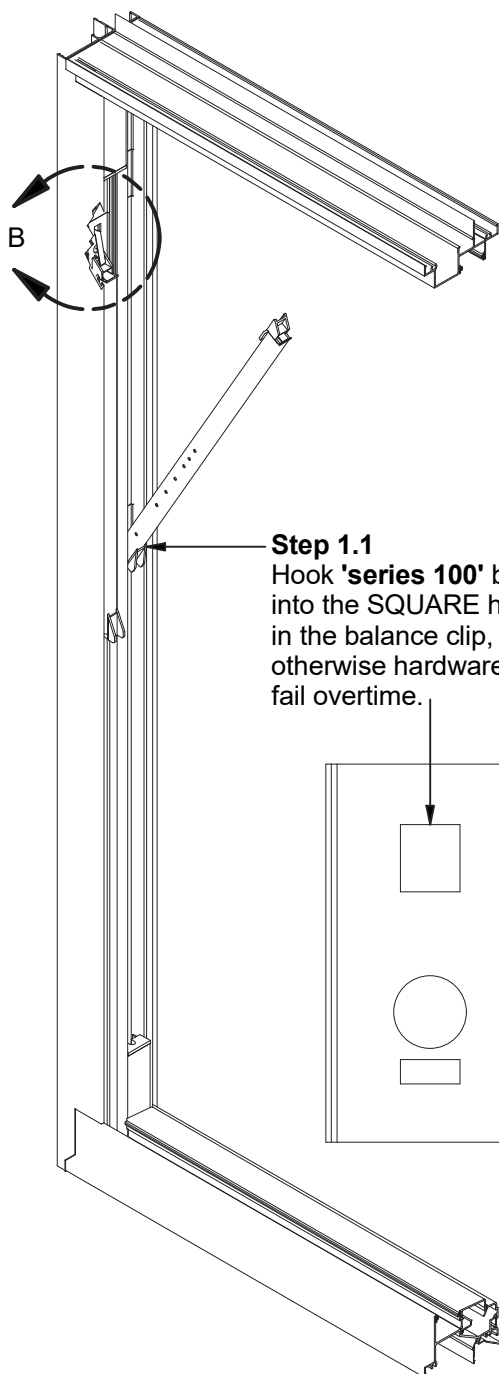
11. Assembly Details

Jamb Assembly



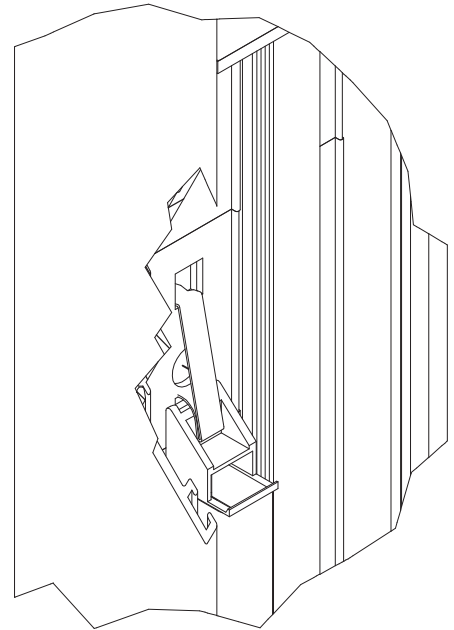
11. Assembly Details

Window Assembly - Step 1

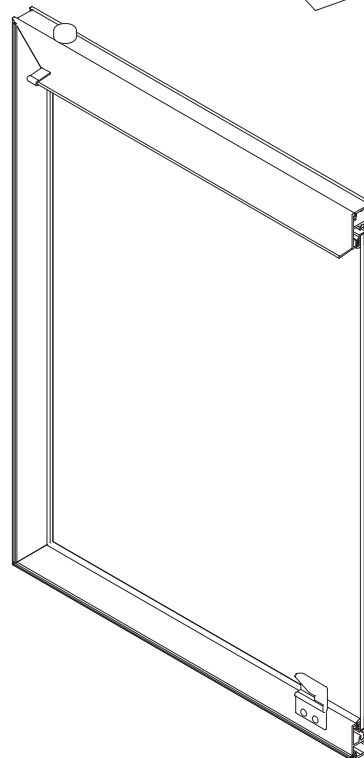


Step 1.1
Hook 'series 100' balance
into the SQUARE hole
in the balance clip,
otherwise hardware will
fail overtime.

Step 1.2
Push balance down to
preload the spring, then
hook the top of the balance
into the take out clip



DETAIL B



Step 1.3
After all four balances have been
fitted to jambs, install both sashes

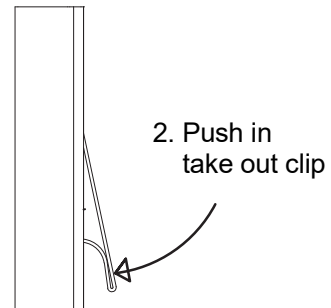
Note: The top sash rails must be
fitted ABOVE the balances and
then slid down into position

11. Assembly Details

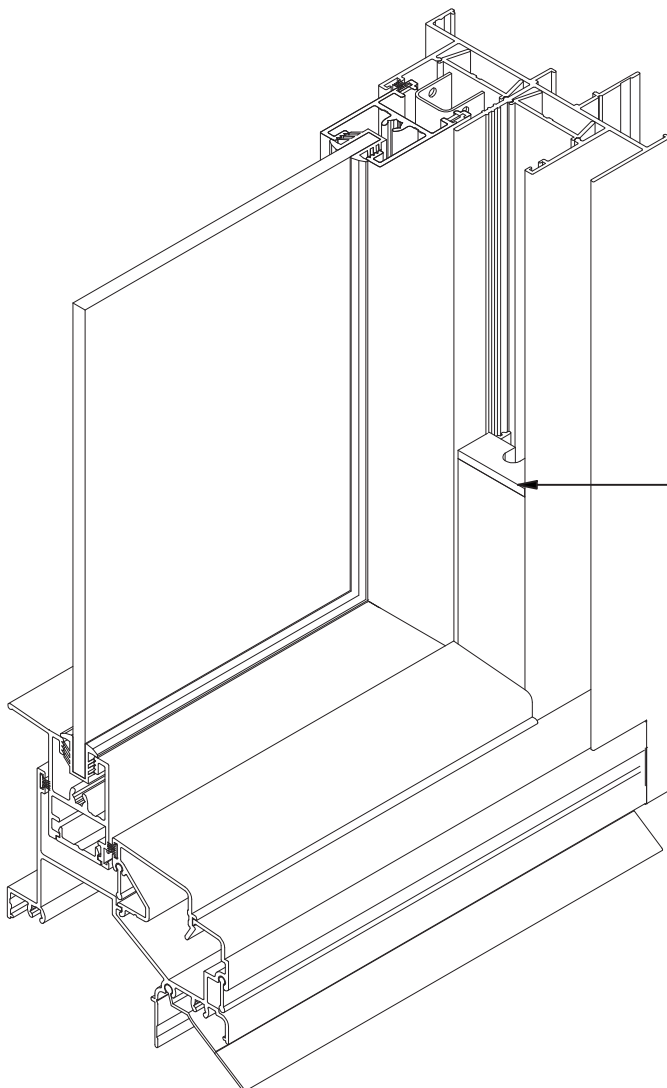
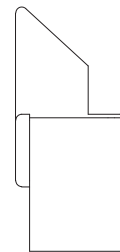
Window Assembly - Step 2

Step 2.1

Push down on sash to compress balance springs. Push in the take out clips flush with infills, then release the spring tension slowly



1. Compress balance spring



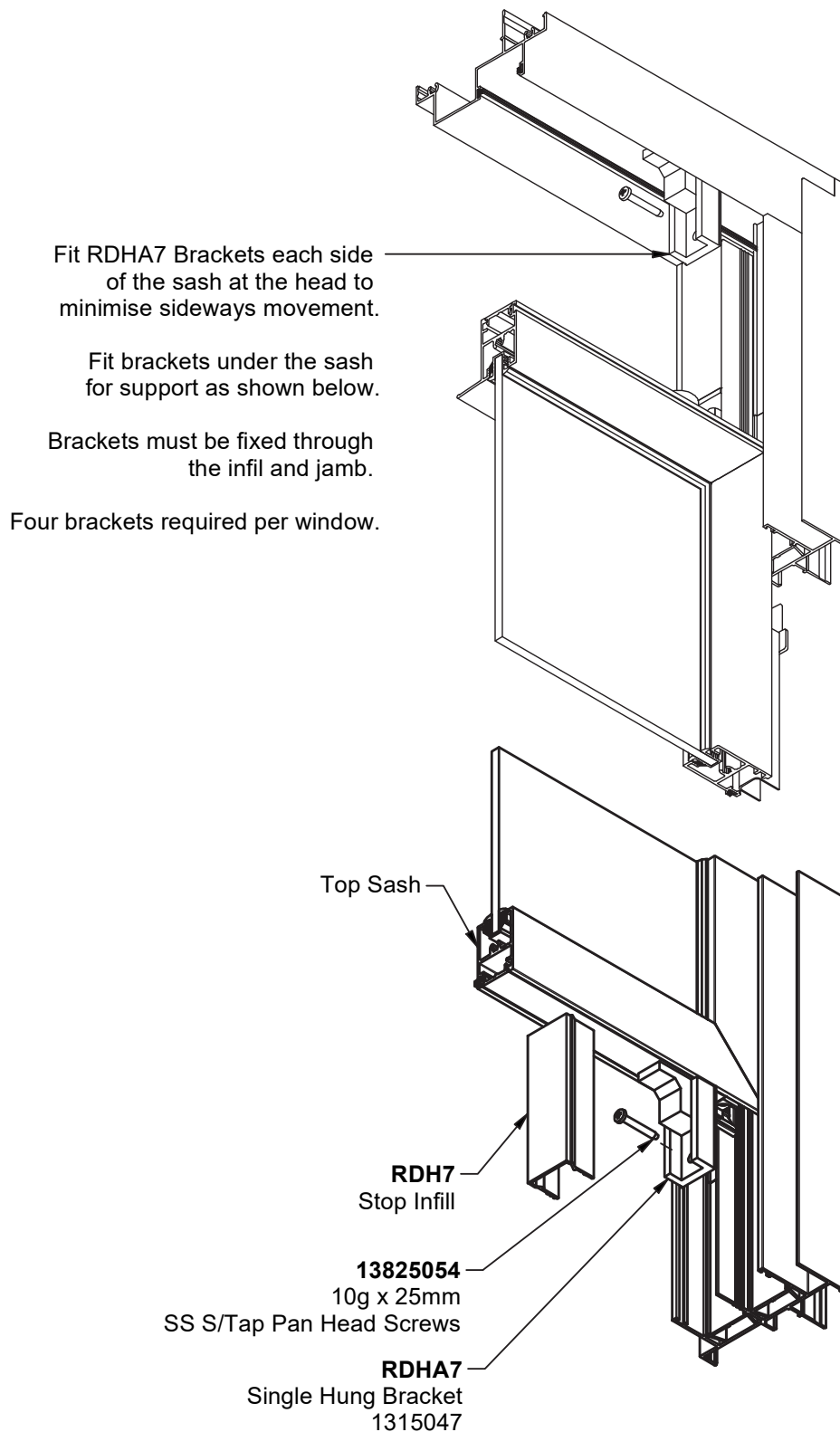
Step 2.2

Fit bump stop infill **RDH7** and rubber bump stop **1314100** to all four corners

Note: Fit 2 stops externally at the sill and 2 stops internally at the head

11. Assembly Details

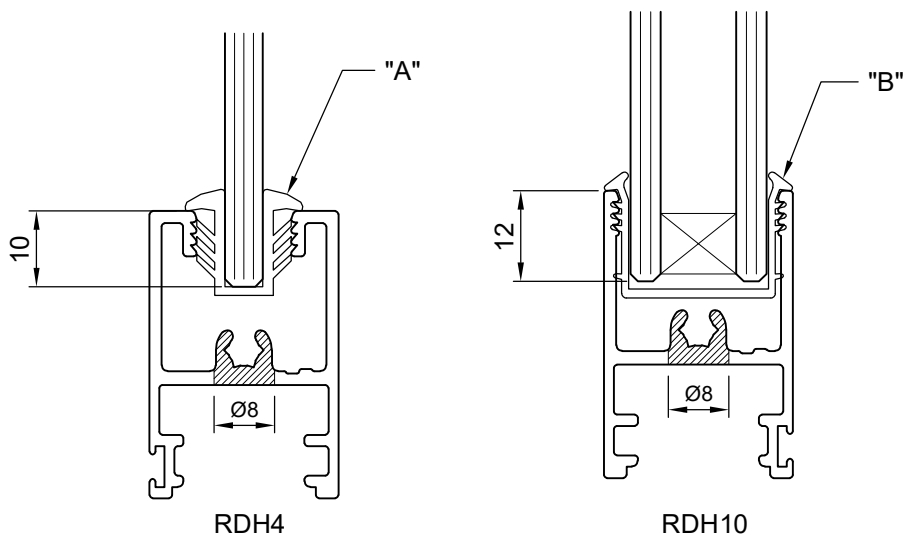
Top Single Hung Configuration Details



Note: The single hung bracket is only installed if the top sash is required to be a fixed panel.

12. Glazing Details

Single & Double Glazed Sash

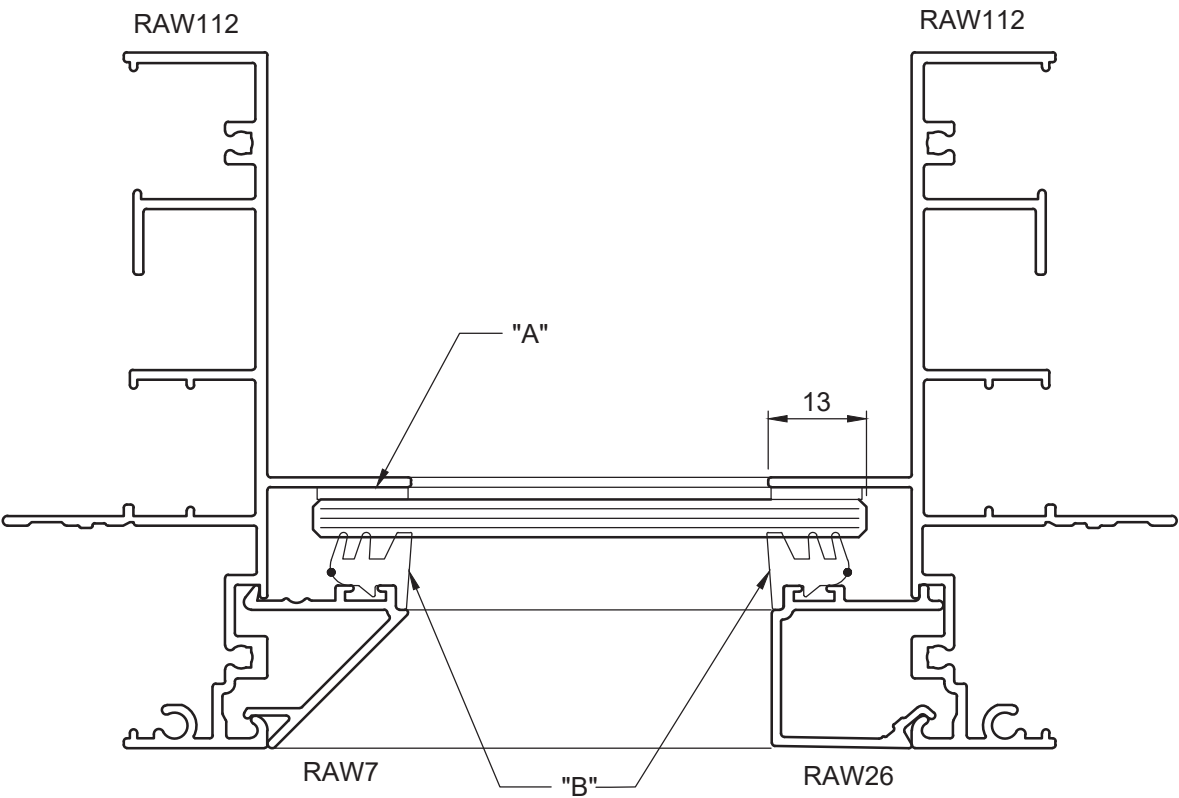


GLASS THICKNESS	"A" GLAZING CHANNEL		"B" GLAZING CHANNEL	
	REF	CODE	REF	CODE
4mm	GR59	1376028	-	-
5mm	GR60	1376033	-	-
6 - 6.38mm	GR61	1376044	-	-
8 - 8.38mm	GR62	1376029	-	-
10 - 10.38mm	GR63	1376035	-	-
12.38mm	-	-	GR64	1313088
13.52mm	-	-	GR75	1376153
17.5mm	-	-	GR71	1376144
18mm	-	-	GR52	1376094
18.38mm - 18.5mm	-	-	GR69	1376141

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

12. Glazing Details

92mm Frame Single Glazed

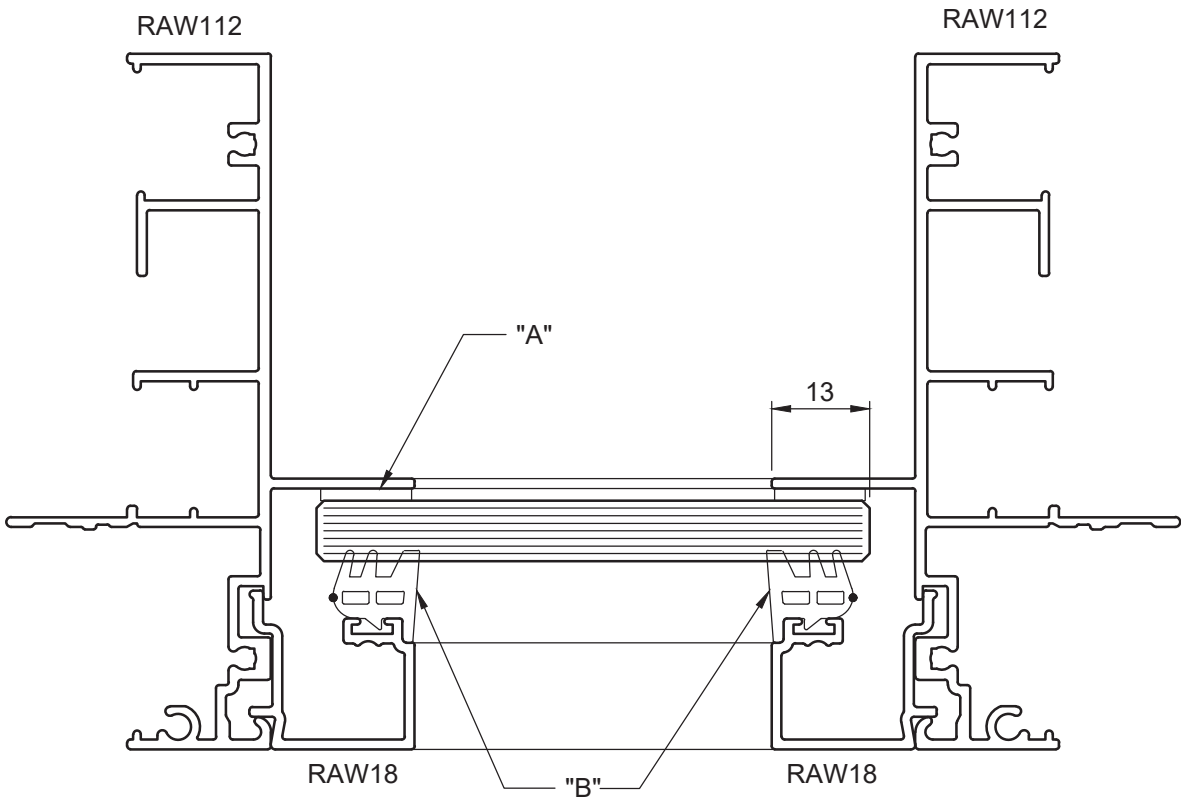


	"A" GLAZING TAPE		"B" GLAZING WEDGE		
GLASS THICKNESS	REF	CODE	REF	COLOUR	CODE
4mm	1.6 x 12mm	1385514	GR48	ORANGE	1313060
5mm	1.6 x 12mm	1385514	GR47	RED	1313059
6mm	1.6 x 12mm	1385514	GR46	YELLOW	1313058
6.38mm	1.6 x 12mm	1385514	GR45	BLUE	1313057
7.5mm	1.6 x 12mm	1385514	GR44	WHITE	1313056

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

12. Glazing Details

92mm Frame Thick Single Glazed

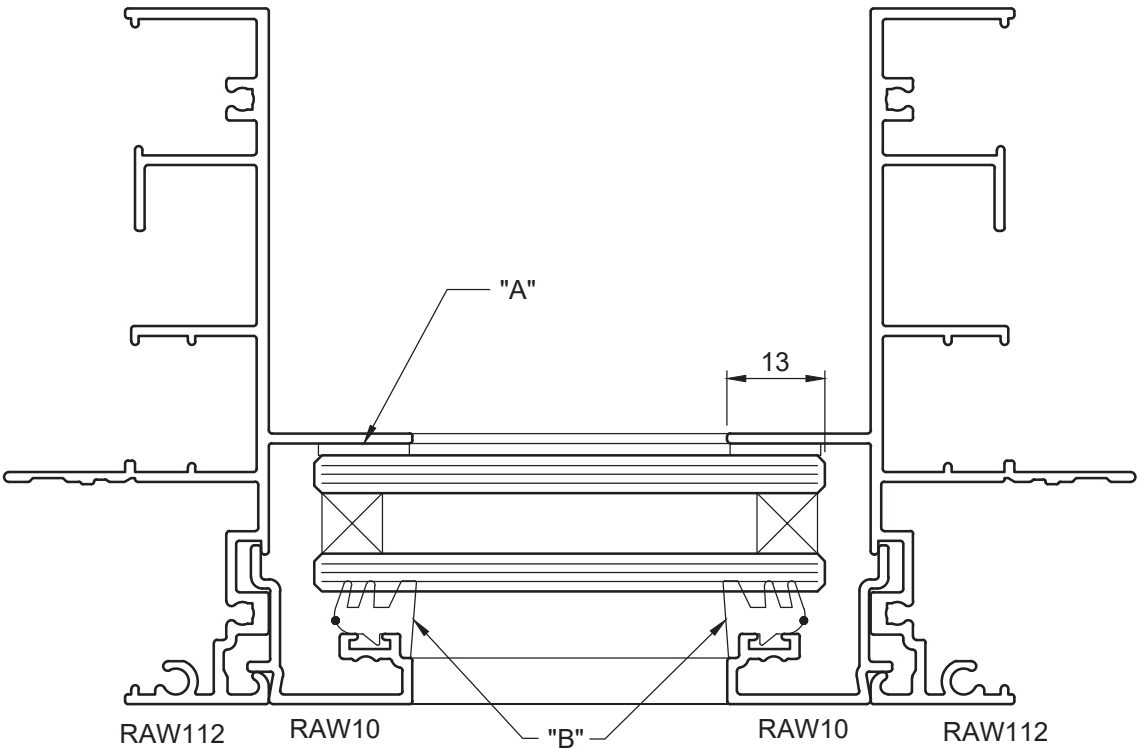


	"A" GLAZING TAPE		"B" GLAZING WEDGE		
GLASS THICKNESS	REF	CODE	REF	COLOUR	CODE
8mm	1.6 x 12mm	1385514	GR48	ORANGE	1313060
8.76mm	1.6 x 12mm	1385514	GR47	RED	1313059
9.52mm	1.6 x 12mm	1385514	GR46	YELLOW	1313058
10mm	1.6 x 12mm	1385514	GR45	BLUE	1313057
10.38mm	1.6 x 12mm	1385514	GR45	BLUE	1313057
10.76mm	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

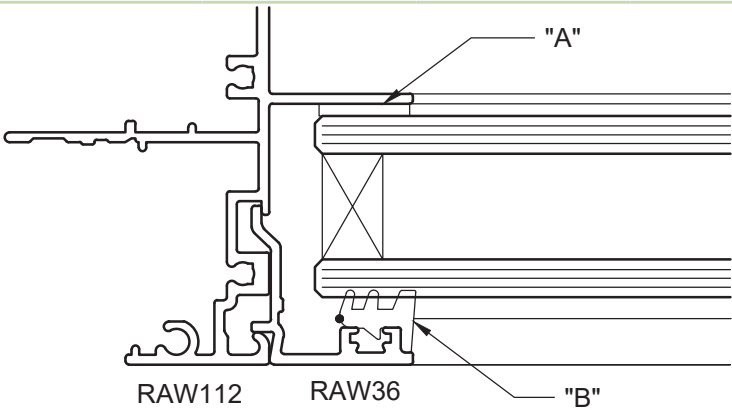
Note: For window & door systems requiring a co-extruded captive gasket on the external side of the glazed pocket, Santoprene is the recommended material to be applied.

12. Glazing Details

92mm Frame Single Glazed



	"A" GLAZING TAPE		"B" GLAZING WEDGE		
GLASS THICKNESS	REF	CODE	REF	COLOUR	CODE
18mm	1.6 x 12mm	1385514	GR47	RED	1313060
18.76mm	1.6 x 12mm	1385514	GR46	YELLOW	1313058



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

*NOTE: MUST GLAZE TO BOTTOM BEAD FIRST WITH SETTING BLOCK

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

13. Care & Maintenance

FRAMING

Your new **Carinya Select Double Hung 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 Select Double Hung Window** frame will retain its good looks and resist the elements for years to come.

The **Carinya Select Double Hung 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 Select Double Hung 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 Select Double Hung 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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