



EvoPlus

Double Hung Window

EvoPlus

Double Hung Window

Technical Manual
March 2025 | ISSUE D

al spec[®]
EVERYTHING ALUMINIUM
& HARDWARE

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1. Technical Manual Release Notes

This page is intended to record all changes to the **EvoPlus Double Hung 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 Tech Memo #
A	02/2020	Technical Manual Initial Release	417
B	06/2022	Addition of RDH7 to Assembly Details on page 11.8	521
C	02/2024	Addition of TL636-04-1 and TL636-05-1 Test Summary to page 4.3	583
D	12/2024	Added RDH600 to sections 4, 5, 6, 8, 9 and 10	599

ALUMINIUM

Aluminium frames should be manufactured using Alspec's **EvoPlus 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 1200mm

The minimum sash width shall be 300mm

The maximum sash weight shall be 20kg

GLAZING

SG Panel: 4mm - 10.38mm

Standard DG Panel: 17.5mm - 18.5mm

The hardware shall be Alspec's specific Glazing wedges, channels and seals for **EvoPlus 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.

HARDWARE

- 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

All products are available from Alspec (A.B.N. 63 001 252 259) as detailed in the "Alspec" catalogue or on the Internet at www.alspec.com.au. All such framing is to be constructed, assembled and fixed to meet the requirement of AS2047 (windows in buildings), AS1170 (loading code). All glass, glazing rubbers, seals and gaskets shall be applied in accordance with the requirements of AS1288 (glass in buildings - selection and installation) or AS4666 (Insulated Glass Units).

Fabricators of the EvoPlus 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

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	1090	1010
		U	3440	2810	2410	2090	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

Diagram illustrating the steps to find the Maximum Design Pressure (Pa) for a window frame:

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

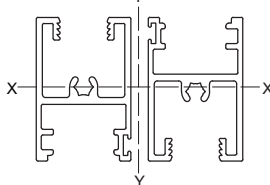
3. Loading Tables

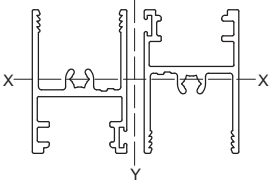
Sashes

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	1860	1220	850
		U	6000	6000	6000	6000	3830	2730	2070
	2200	S	3000	3000	3000	2860	1790	1200	860
		U	6000	6000	6000	5340	3640	2690	2090
	2000	S	3000	3000	3000	2730	1760	1220	880
		U	6000	6000	6000	5010	3580	2720	2160
	1800	S	3000	3000	3000	2690	1790	1250	920
		U	6000	6000	6000	4920	3640	2820	2270
	1600	S	3000	3000	3000	2730	1860	1320	980
		U	6000	6000	6000	5010	3800	2990	2430
	1400	S	3000	3000	3000	2860	1980	1430	1070
		U	6000	6000	6000	5280	4080	3260	2670
	1200	S	3000	3000	3000	3000	2180	1600	1200
		U	6000	6000	6000	5770	4520	3650	3010
	1000	S	3000	3000	3000	3000	2500	1850	1400
		U	6000	6000	6000	6000	5210	4240	3520
Ixx = 53 x 10³ mm⁴	Window Width		600	700	800	900	1000	1100	1200

RDH10/ RDH10 SASH	Window Height	Maximum Design Pressure (Pa)							
	2400	S	3000	3000	3000	2190	1310	860	600
		U	6000	6000	6000	4030	2560	1820	1380
	2200	S	3000	3000	3000	2020	1260	850	600
		U	6000	6000	6000	3570	2430	1800	1400
	2000	S	3000	3000	3000	1930	1240	860	620
		U	6000	6000	5200	3350	2390	1820	1440
	1800	S	3000	3000	3000	1900	1260	880	650
		U	6000	6000	4790	3280	2430	1880	1510
	1600	S	3000	3000	3000	1930	1310	930	690
		U	6000	6000	4680	3340	2530	2000	1620
	1400	S	3000	3000	3000	2020	1400	1010	760
		U	6000	6000	4780	3520	2720	2180	1780
	1200	S	3000	3000	3000	2190	1540	1130	850
		U	6000	6000	5120	3850	3020	2440	2010
	1000	S	3000	3000	3000	2480	1760	1300	990
		U	6000	6000	5740	4390	3480	2830	2350
Ixx = 37.4 x 10 ³ mm ⁴	Window Width		600	700	800	900	1000	1100	1200

Tables are based on theoretical section properties

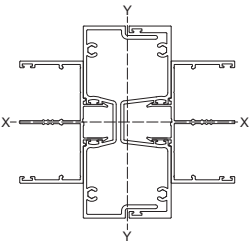
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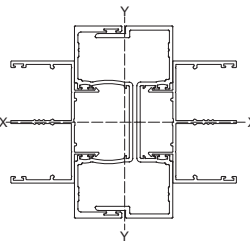
Mullions

Max Stress = 110Mpa

S = Serviceability limit state I/250

U = Ultimate limit state

RDH14 / ME10+ME11 / RDH14 MULLION / ADAPTOR	Window Height	Maximum Design Pressure (Pa)							
	2400	S	3000	3000	2780	2500	2280	2100	1960
		U	6000	6000	5370	4830	4390	4050	3760
	2200	S	3000	3000	3000	3000	3000	2780	2600
		U	6000	6000	6000	5800	5290	4890	4560
	2000	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	5650
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1600	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1400	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1200	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1000	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
lxx = 1378 x 10 ³ mm ⁴	Window Width		600	700	800	900	1000	1100	1200

HE397 / ECO212 + ECO213 / HE397 MULLION / ADAPTOR	Window Height	Maximum Design Pressure (Pa)							
	2400	S	3000	3000	3000	2730	2490	2300	2150
		U	6000	6000	5880	5280	4810	4430	4120
	2200	S	3000	3000	3000	3000	3000	3000	2840
		U	6000	6000	6000	6000	5790	5350	4990
	2000	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1600	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1400	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1200	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1000	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
lxx = 1508 x 10 ³ mm ⁴	Window Width		600	700	800	900	1000	1100	1200

Tables are based on theoretical section properties

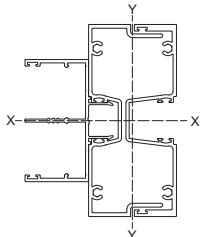
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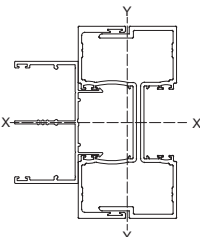
Mullion with Side lite

Max Stress = 110MPa

S = Serviceability limit state I/250

U = Ultimate limit state

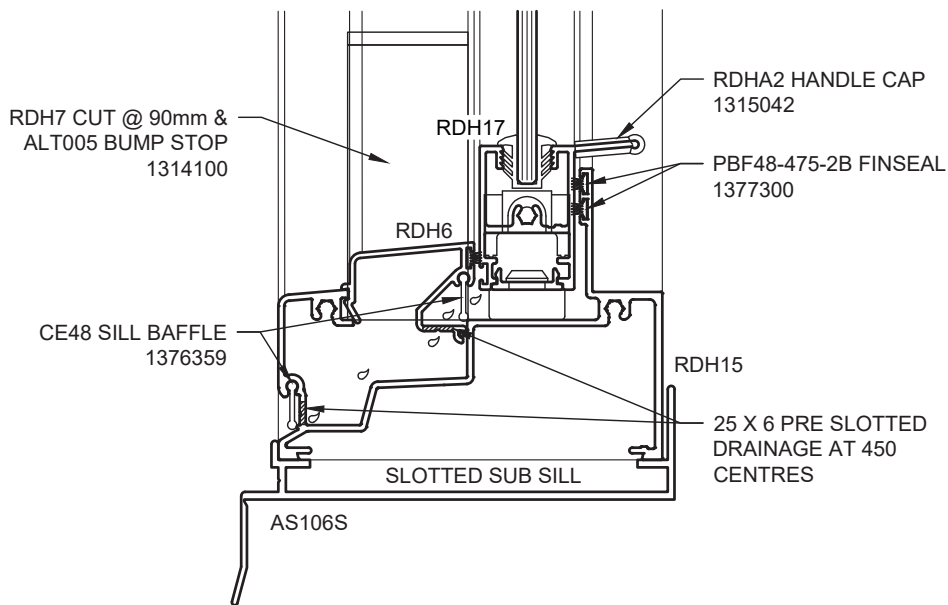
ME10+ME11 / RDH14 MULLION / ADAPTOR	Window Height	Maximum Design Pressure (Pa)							
	2400	S	3000	2870	2540	2290	2090	1920	1790
		U	6000	5570	4920	4420	4020	3700	3440
	2200	S	3000	3000	3000	3000	2750	2540	2380
		U	6000	6000	5900	5310	4840	4470	4170
	2000	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	5950	5520	5170
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1600	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1400	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1200	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1000	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
Ixx = 1261 x 10³ mm⁴	Window Width		600	700	800	900	1000	1100	1200

ECO212+ECO213 / HE397 MULLION / ADAPTOR	Window Height	Maximum Design Pressure (Pa)							
	2400	S	3000	3000	2690	2420	2210	2040	1900
		U	6000	5910	5210	4680	4260	3930	3650
	2200	S	3000	3000	3000	3000	2910	2700	2520
		U	6000	6000	6000	5630	5130	4740	4420
	2000	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	5850	5480
	1800	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1600	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1400	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1200	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
	1000	S	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000
Ixx = 1337 x 10 ³ mm ⁴	Window Width		600	700	800	900	1000	1100	1200

Tables are based on theoretical section properties

AS2047 - Single Glazed

TEST REPORT:	OT20-037
SYSTEM CONFIGURATION	EvoPlus Double Hung SG, XX, RDH15 Sill
TEST SAMPLE SIZE	1.78m high x 1.18m wide
SERVICEABILITY LOAD @ L/250	+/- 1.7 kPa
ULTIMATE LOAD @ L/250	+/- 5.0 kPa
WATER PENETRATION	308 Pa
AIR INFILTRATION @75Pa	+ 0.75 L/m/s ² - 0.75 L/m/s ²
OPERATING FORCE TEST INITIATING MOVEMENT SUSTAINING MOVEMENT	200 N 160 N

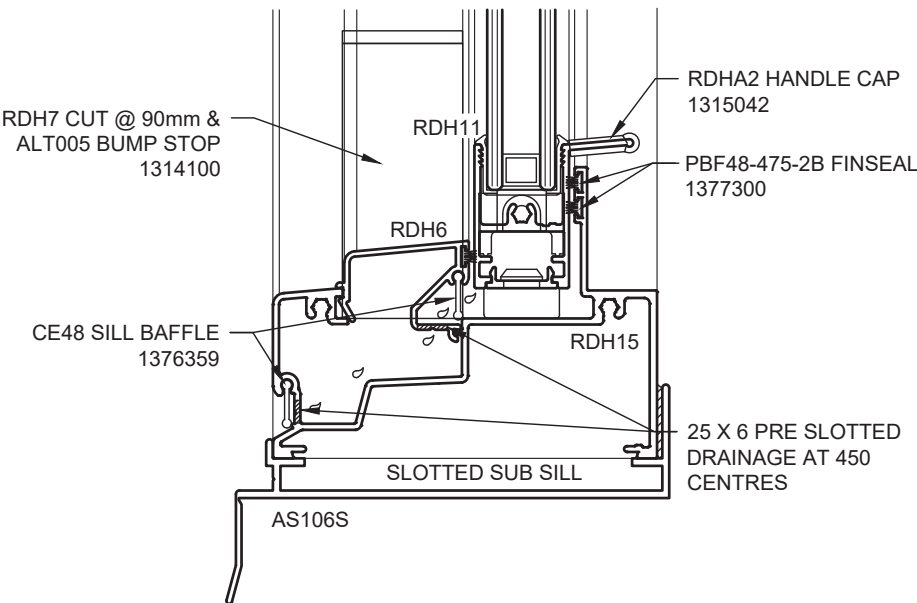


DISCLAIMER:
Please note that the test results shown above reflect specific configurations of a system and are representative only. If a specific high wind load or a different configuration (i.e. changes to frames, transoms, mullions) is required on a project please discuss with Alspec prior to commencement.

4. Test Summary

AS2047 - Double Glazed

TEST REPORT:	OT20-038
SYSTEM CONFIGURATION	EvoPlus Double Hung DG, XX, RDH15 Sill
TEST SAMPLE SIZE	1.78m high x 1.18m wide
SERVICEABILITY LOAD @ L/250	+/- 1.7 kPa
ULTIMATE LOAD @ L/250	+/- 5.0 kPa
WATER PENETRATION	311 Pa
AIR INFILTRATION @75Pa	+ 2.18 L/m/s ² - 3.44 L/m/s ²
OPERATING FORCE TEST INITIATING MOVEMENT SUSTAINING MOVEMENT	152 N 112 N



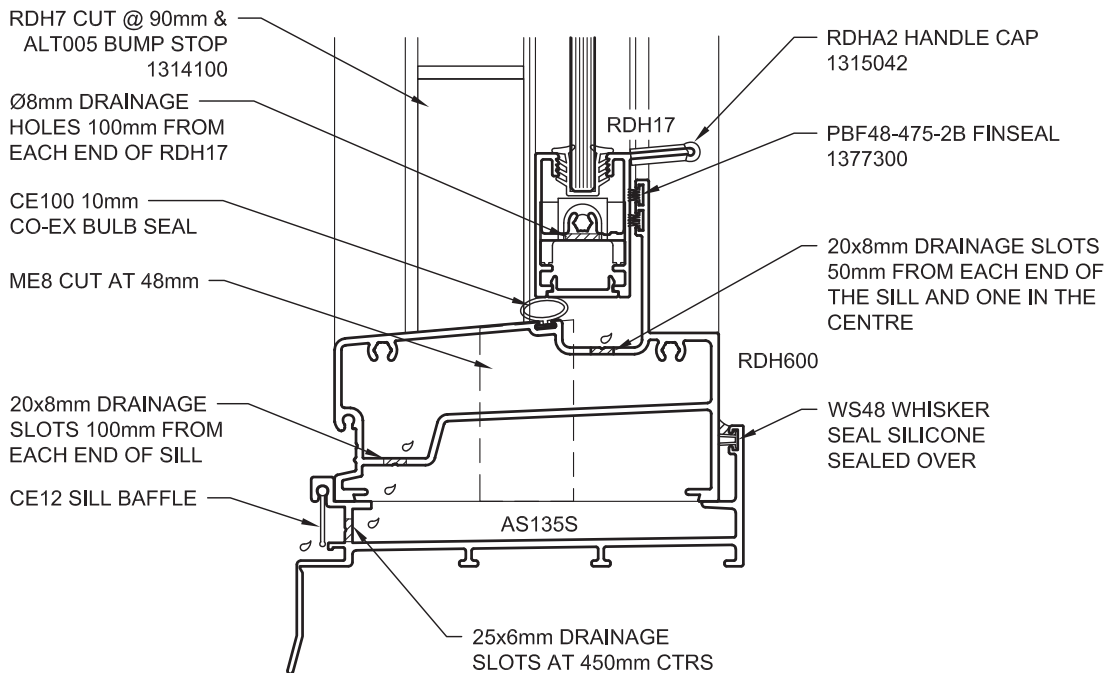
DISCLAIMER:

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 - Single Glazed High Performance Sill

TEST REPORT:	OT24-247
SYSTEM CONFIGURATION	EvoPlus Double Hung SG, XX, RDH600 Sill
TEST SAMPLE SIZE	1.8m high x 1.2m wide
SERVICEABILITY LOAD @ L/250	+/- 1.2 kPa
ULTIMATE LOAD @ L/250	+/- 5.0 kPa
WATER PENETRATION	360 Pa
AIR INFILTRATION @75Pa	+ 1.62 L/m/s ² - 1.52 L/m/s ²
OPERATING FORCE TEST	
INITIATING MOVEMENT	139 N
SUSTAINING MOVEMENT	158 N



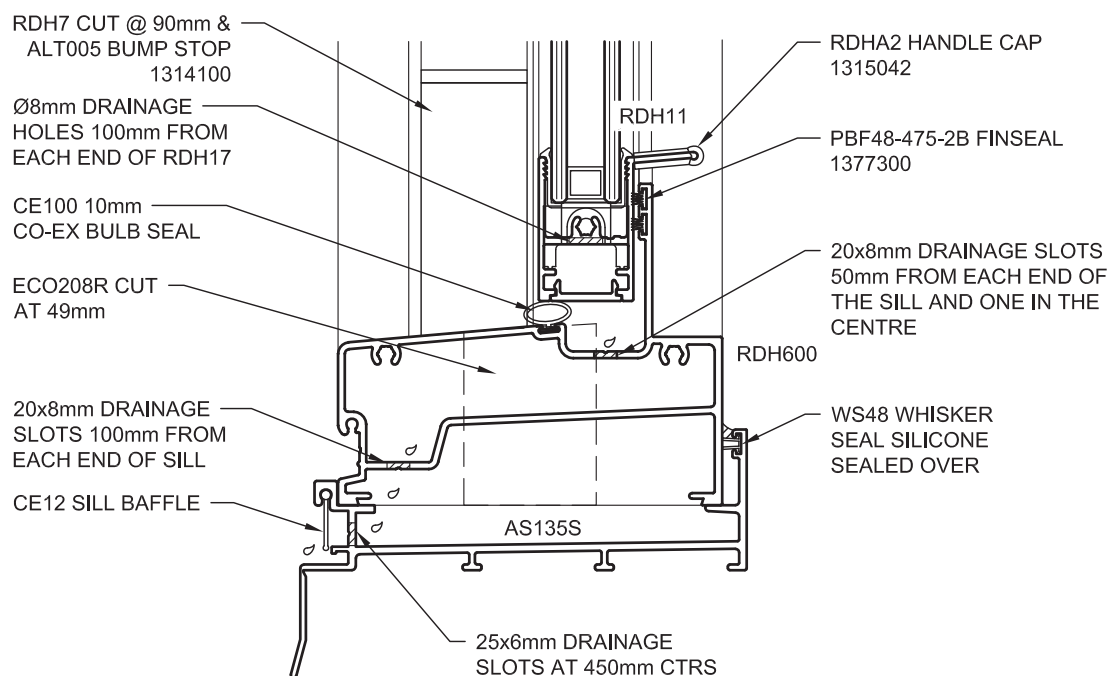
DISCLAIMER:

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 - Double Glazed High Performance Sill

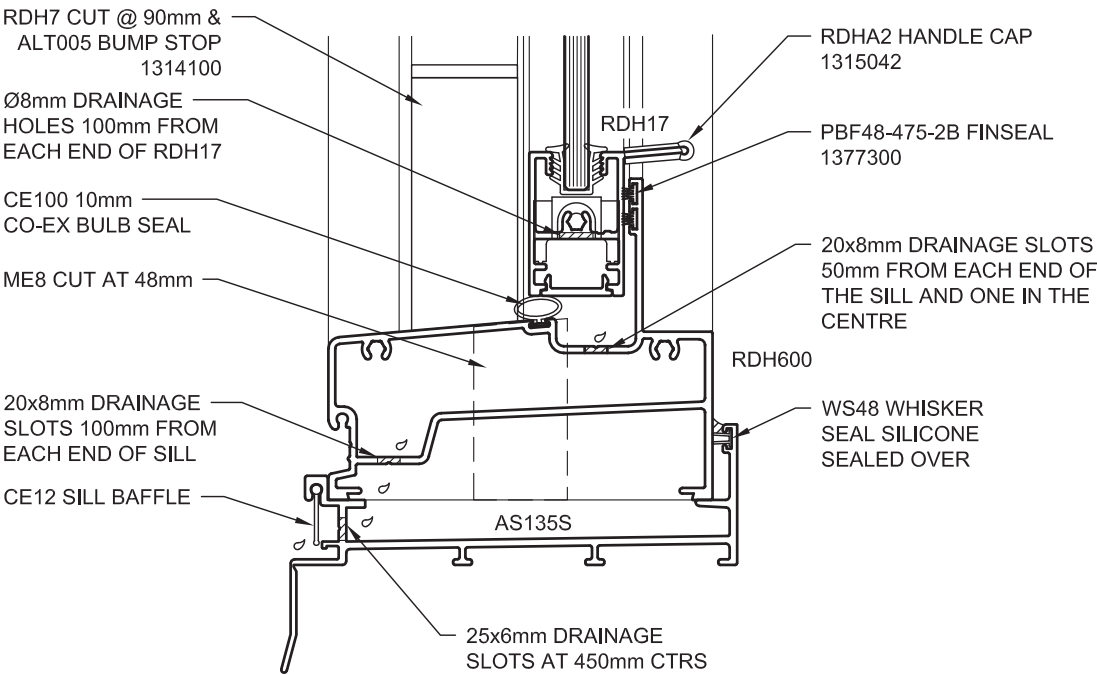
TEST REPORT:	OT24-251
SYSTEM CONFIGURATION	EvoPlus Double Hung DG, XX, RDH600 Sill
TEST SAMPLE SIZE	1.808m high x 1.211m wide
SERVICEABILITY LOAD @ L/250	+/- 1.2 kPa
ULTIMATE LOAD @ L/250	+/- 5.0 kPa
WATER PENETRATION	360 Pa
AIR INFILTRATION @75Pa	+ 1.03 L/m/s ² - 1.46 L/m/s ²
OPERATING FORCE TEST	
INITIATING MOVEMENT	185 N
SUSTAINING MOVEMENT	152 N



4. Test Summary

Water Test only - Single Glazed High Performance Sill

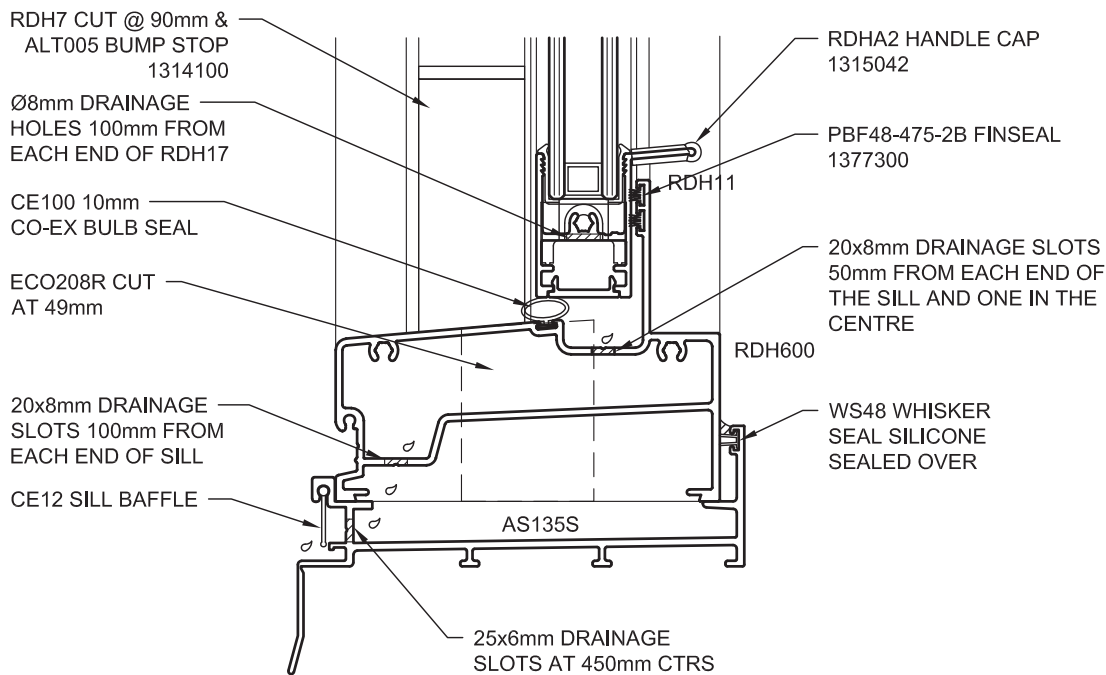
TEST REPORT:	OT24-253
SYSTEM CONFIGURATION	EvoPlus Double Hung SG, XX, RDH600 Sill
TEST SAMPLE SIZE	1.8m high x 1.2m wide
WATER PENETRATION	650 Pa



4. Test Summary

Water Test only - Double Glazed High Performance Sill

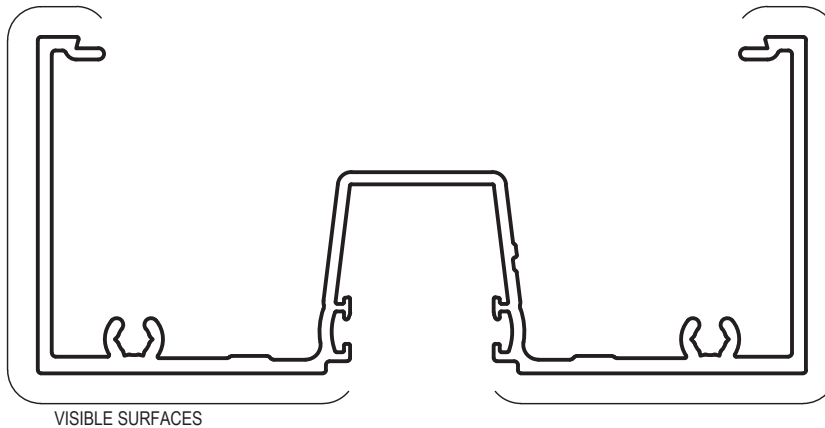
TEST REPORT:	OT24-257
SYSTEM CONFIGURATION	EvoPlus Double Hung SG, XX, RDH600 Sill
TEST SAMPLE SIZE	1.8m high x 1.2m wide
WATER PENETRATION	650 Pa



4. Test Summary

Acoustic - AS/NZS ISO 717.1

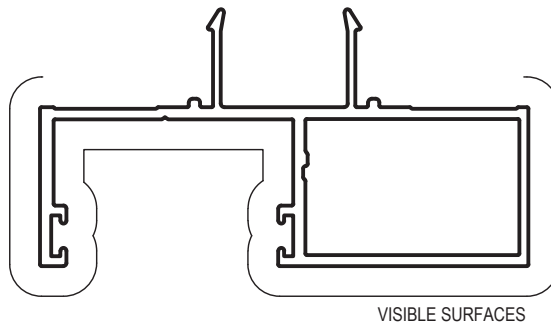
TEST REPORT	PRODUCT DESCRIPTION	SIZE	GLASS	SEALS	Rw
TL636-04-1	EVOPLUS DOUBLE HUNG WITH ecoFRAMEplus 101.6mm FIXED FRAME	1.2m (H) x 1.8m (W)	6mm TOUGHENED, 8mm ARGON, 4mm TOUGHENED	PBF48-475-2P	34 (-1,-2)
TL636-05-1	EVOPLUS DOUBLE HUNG WITH McARTHUR EVO 101.6mm FIXED FRAME	1.2m (H) x 1.8m (W)	6.38mm CLEAR LAMINATE	PBF48-475-2P	30 (-1,-1)



ME1
FRAME / JAMB

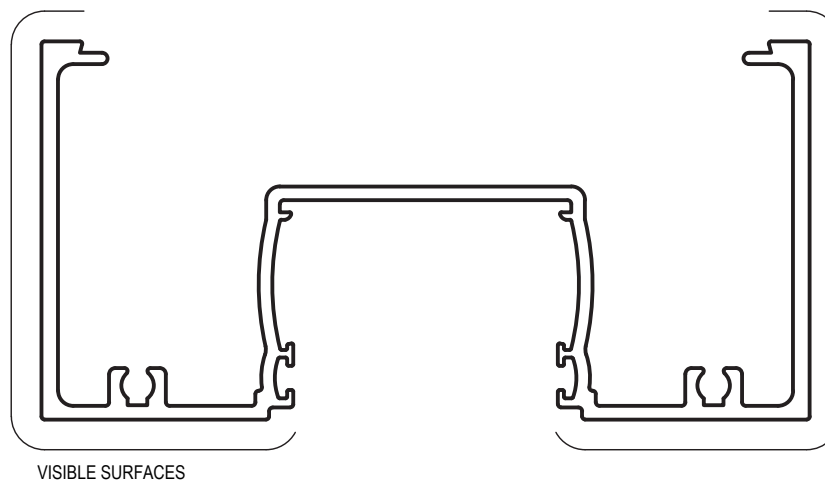
Mass. 1.365 Kg/m
Anod. Per. 560
Paint Per. 182

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



RDH16
EVOPLUS DH ME
HEAD ADAPTOR

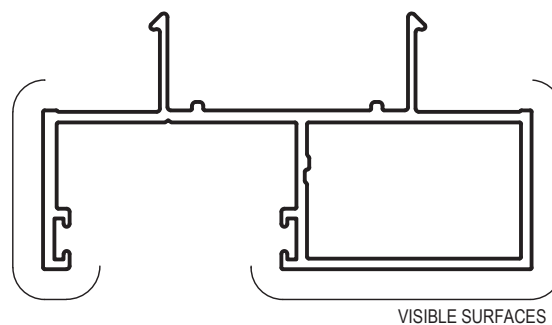
Mass. 0.728 Kg/m
Anod. Per. 287
Paint Per. 168



ECO201
101.6mm DG FRAME

Mass. 1.592 Kg/m
Anod. Per. 602
Paint Per. 180

$I_{xx} = 858.76 \times 10^3 \text{ mm}^4$
 $I_{yy} = 142.04 \times 10^3 \text{ mm}^4$



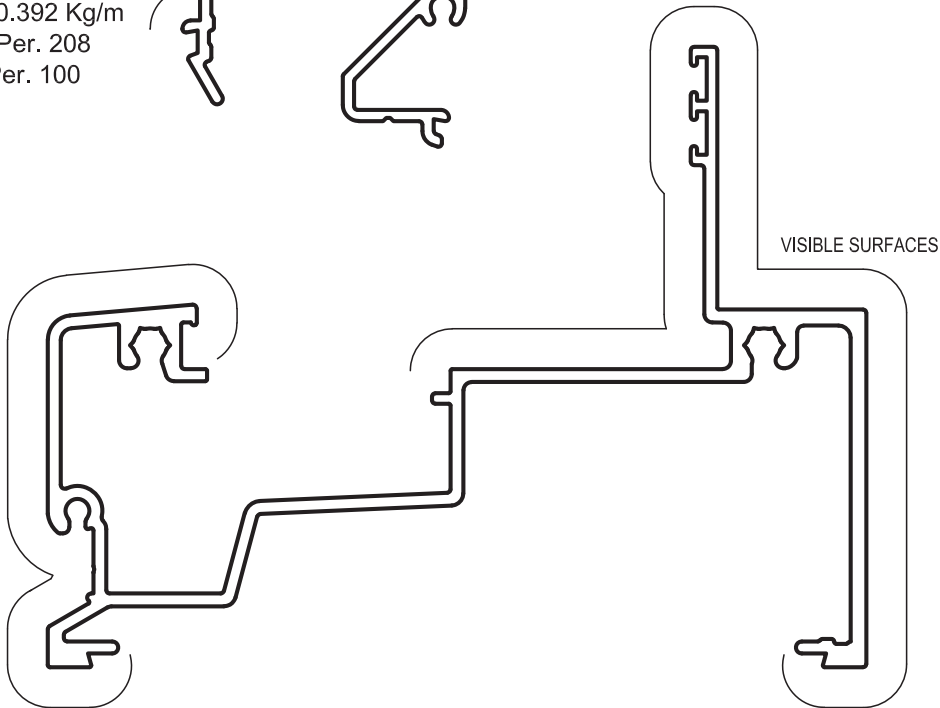
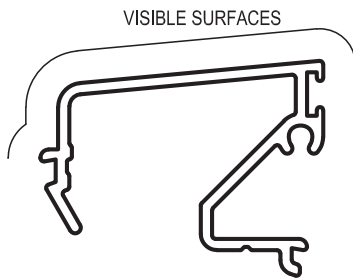
ECO300
EVOPLUS DH EFP
HEAD ADAPTOR

Mass. 0.731 Kg/m
Anod. Per. 289
Paint Per. 100

5. Extrusions

RDH6 DOUBLE HUNG THRESHOLD

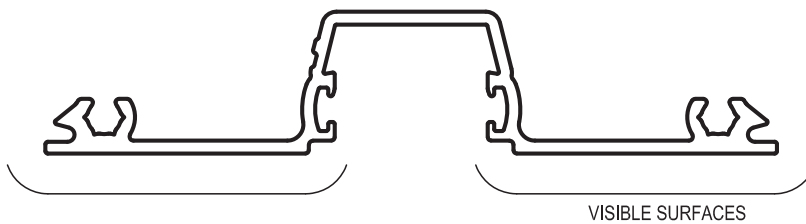
Mass. 0.392 Kg/m
Anod. Per. 208
Paint Per. 100



RDH15 EVOPLUS DH SILL

Mass. 1.525 Kg/m
Anod. Per. 639
Paint Per. 283

$I_{xx} = 822.92 \times 10^3 \text{ mm}^4$
 $I_{yy} = 170.39 \times 10^3 \text{ mm}^4$



ME4 GLAZING ADAPTOR

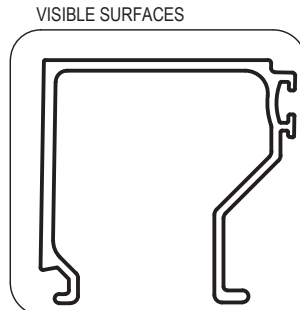
Mass. 0.685 Kg/m
Anod. Per. 303
Paint Per. 100

$I_{xx} = 184.07 \times 10^3 \text{ mm}^4$
 $I_{yy} = 8.41 \times 10^3 \text{ mm}^4$



ECO204 101.6mm DG POCKET INFILL

Mass. 0.741 Kg/m
Anod. Per. 320
Paint Per. 100



ECO203

101.6mm DG
SILL BEAD

Mass. 0.408 Kg/m
Anod. Per. 216
Paint Per. 100

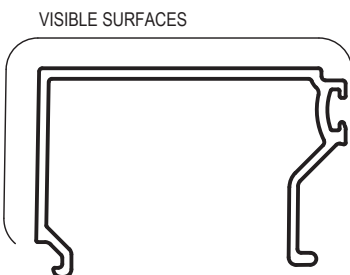


ECO202

101.6mm DG SILL

Mass. 1.297 Kg/m
Anod. Per. 490
Paint Per. 122

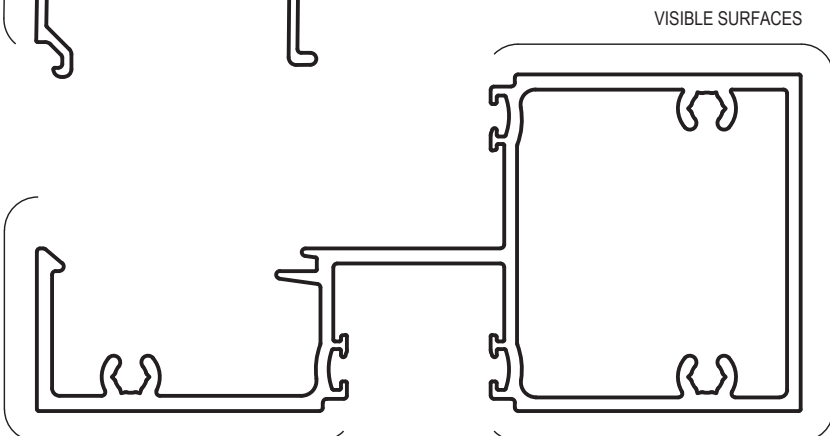
$I_{xx} = 660.99 \times 10^3 \text{ mm}^4$
 $I_{yy} = 108.43 \times 10^3 \text{ mm}^4$



ME3

SILL BEAD

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

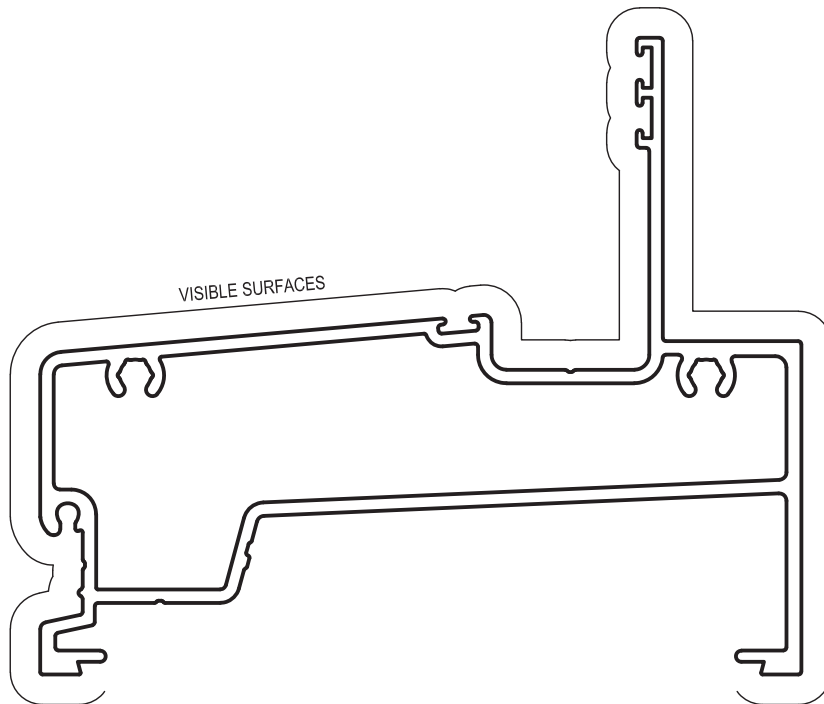


ME25

HOLLOW TRANSOM

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

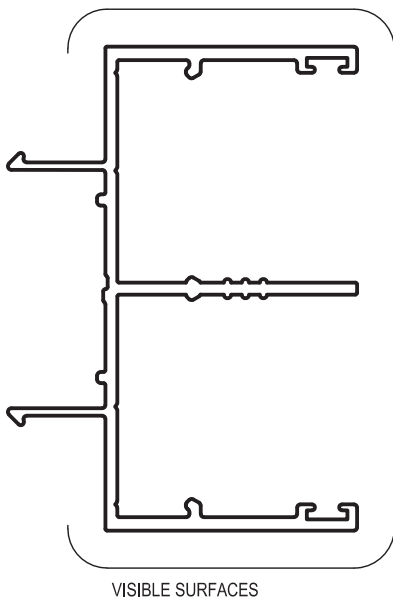
$I_{xx} = 597.0 \times 10^3 \text{ mm}^4$
 $I_{yy} = 143.0 \times 10^3 \text{ mm}^4$



RDH600
EVOPLUS DH HIGH
PERFORMANCE SILL

Mass. 1.955 Kg/m
Anod. Per. 489
Paint Per. 299

$I_{xx} = 930.16 \times 10^3 \text{ mm}^4$
 $I_{yy} = 238.96 \times 10^3 \text{ mm}^4$

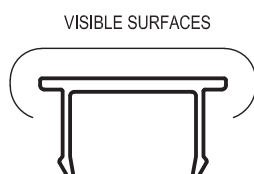
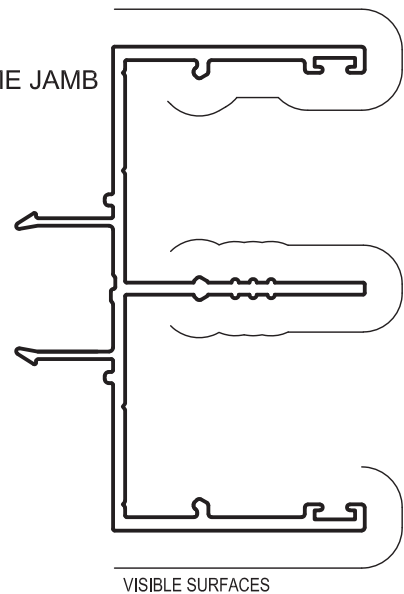


ECO301
EVOPLUS DH EFP JAMB
ADAPTOR

Mass. 0.873 Kg/m
Anod. Per. 416
Paint Per. 100

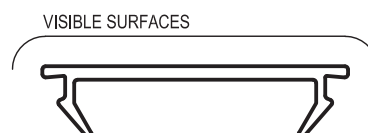
RDH14
EVOPLUS DH ME JAMB
ADAPTOR

Mass. 0.869 Kg/m
Anod. Per. 415
Paint Per. 191



ME8
POCKET FILLER

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



ECO208R
FLUSH POCKET
INFILL DG

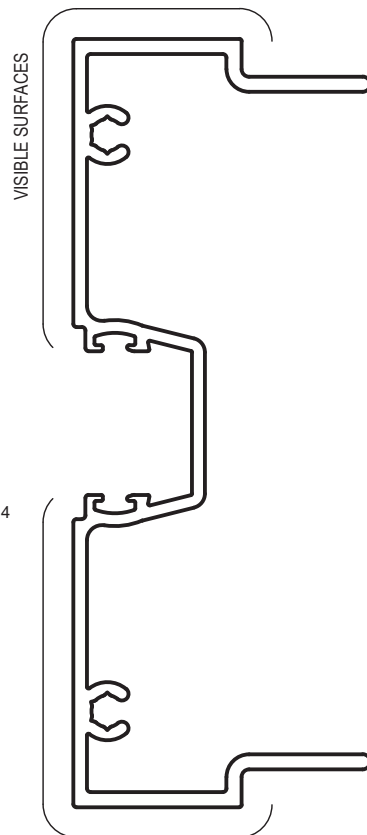
Mass. 0.253 Kg/m
Anod. Per. 119
Paint Per. 100

ME10

MALE MULLION

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

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

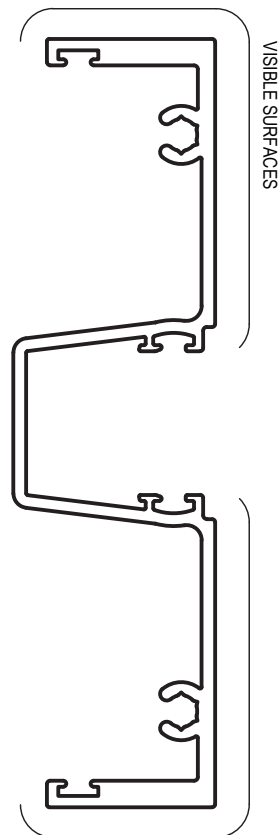


ME11

FEMALE MULLION

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

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

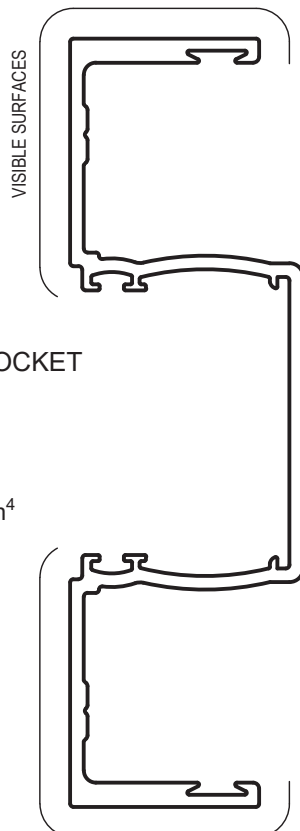


ECO212

101.6mm DG MULLION DEEP POCKET

Mass. 1.189 Kg/m
Anod. Per. 455
Paint Per. 115

$I_{xx} = 531.10 \times 10^3 \text{ mm}^4$

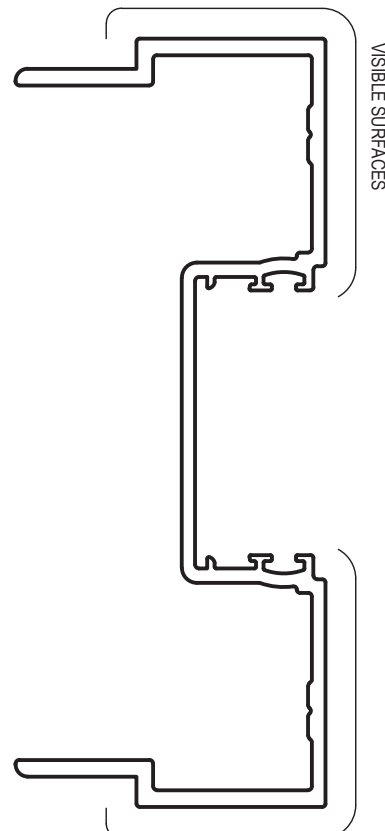


ECO213

101.6mm DG MULLION SHALLOW POCKET

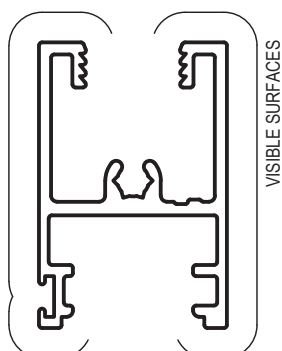
Mass. 1.234 Kg/m
Anod. Per. 471
Paint Per. 118

$I_{xx} = 633.86 \times 10^3 \text{ mm}^4$



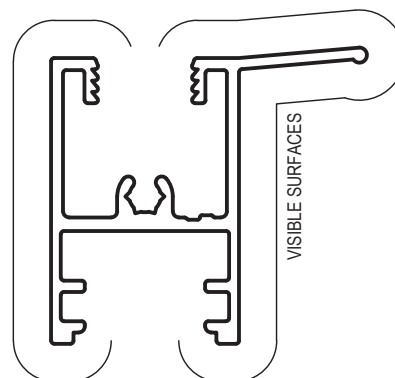
RDH4
SASH

Mass. 0.606 Kg/m
Anod. Per. 282
Paint Per. 103



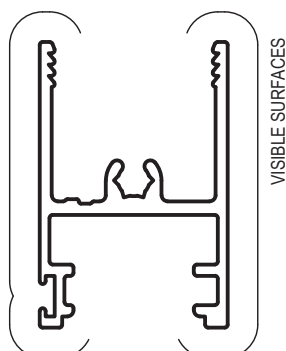
RDH17
DOUBLE HUNG
SASH HANDLE

Mass. 0.681 Kg/m
Anod. Per. 312
Paint Per. 128



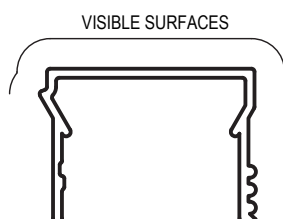
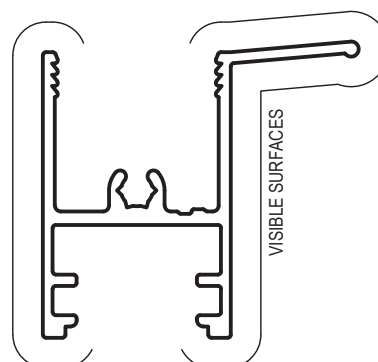
RDH10
DG SASH

Mass. 0.536 Kg/m
Anod. Per. 249
Paint Per. 100



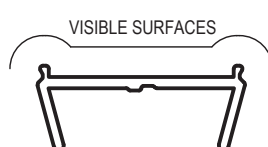
RDH11
DG SASH
HANDLE

Mass. 0.610 Kg/m
Anod. Per. 279
Paint Per. 119



RDH7
STOP INFILL

Mass. 0.236 Kg/m
Anod. Per. 144
Paint Per. 100



RDH9
DOUBLE HUNG
BALANCE INFILL

Mass. 0.177 Kg/m
Anod. Per. 100
Paint Per. 100

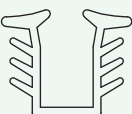
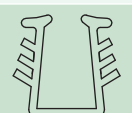
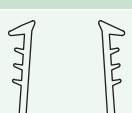
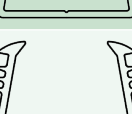
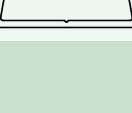


RDH8
DOUBLE HUNG
CAP

Mass. 0.118 Kg/m
Anod. Per. 100
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 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
	2mm	PVC	1376132	GR32 GLAZING WEDGE (2mm GAP) x 200m ROLL
	3mm	PVC	1313055	GR43 GLAZING WEDGE (BROWN) (3mm GAP) PVC x 200m ROLL
		S/PRENE	1313063	GR43S GLAZING WEDGE (BROWN) (3mm GAP) S/PRENE x 200m ROLL
	4mm	PVC	1313056	GR44 GLAZING WEDGE (WHITE) (4mm GAP) PVC x 200m ROLL
		S/PRENE	1313064	GR44S GLAZING WEDGE (WHITE) (4mm GAP) S/PRENE x 200m ROLL
	4.5mm	PVC	1376149	GR1038 GLAZING WEDGE (4.5mm GAP) PVC x 150m ROLL
		S/PRENE	1376150	GR1038S GLAZING WEDGE (4.5mm GAP) S/PRENE x 150m ROLL
	5mm	PVC	1313057	GR45 GLAZING WEDGE (BLUE) (5mm GAP) PVC x 150m ROLL
		S/PRENE	1313065	GR45S GLAZING WEDGE (BLUE) (5mm GAP) S/PRENE x 150m ROLL
	6mm	PVC	1313058	GR46 GLAZING WEDGE (YELLOW) (6mm GAP) PVC x 150m ROLL
		S/PRENE	1313066	GR46S GLAZING WEDGE (YELLOW) (6mm GAP) S/PRENE x 150m ROLL
	6.5mm	PVC	1376147	GR638 GLAZING WEDGE (6.5mm GAP) PVC x 150m ROLL
		S/PRENE	1376148	GR638S GLAZING WEDGE (6.5mm GAP) S/PRENE x 150m ROLL
	7mm	PVC	1313059	GR47 GLAZING WEDGE (RED) (7mm GAP) PVC x 150m ROLL
		S/PRENE	1313062	GR47S GLAZING WEDGE (RED) (7mm GAP) S/PRENE x 150m ROLL
	8mm	PVC	1313060	GR48 GLAZING WEDGE (ORANGE) (8mm GAP) PVC x 150m ROLL
		S/PRENE	1313067	GR48S GLAZING WEDGE (ORANGE) (8mm GAP) S/PRENE x 150m ROLL
	9mm	PVC	1313076	GR50 GLAZING WEDGE (GREEN) (9mm GAP) PVC x 100m ROLL

Backing Gaskets

IMAGE	TO SUIT GAP	MATERIAL	PART #	DESCRIPTION
	2mm	PVC	1313079	CE36 CO-EXT BACKING GASKET (2mm GAP) PVC x 100m ROLL
		S/PRENE	1313080	CE36S CO-EXT BACKING GASKET (2mm GAP) S/PRENE x 100m ROLL
	4mm	PVC	1313081	CE37 CO-EXT BACKING GASKET (4mm GAP) PVC x 100m ROLL
		S/PRENE	1313082	CE37S CO-EXT BACKING GASKET (4mm GAP) S/PRENE x 100m ROLL
	6mm	PVC	1313083	CE49 CO-EXT BACKING GASKET (6mm GAP) PVC x 100m ROLL
		S/PRENE	1313084	CE49S CO-EXT BACKING GASKET (6mm GAP) S/PRENE x 100m ROLL
	8.5mm	S/PRENE	1313078	CE52S CO-EXT BACKING GASKET (8.5mm GAP) x 100m ROLL

6. Hardware & Components

Fasteners

SCREWS			
PART #	HEAD	DESCRIPTION	LOCATION
1382644	SQUARE #2	10g x 1 (25mm) 304SS SQ #2 PAN S/TAP SCREW x 1000	MAIN FRAME SASH ASSEMBLY
1382054	PHILLIPS #2	10g x 1 (25mm) SS PHIL PAN S/TAP SCREW x 500	
1382095	PHILLIPS #2	10g x 1 (25mm) SS PHILLIPS CSK S/TAP x 200	MULLION
1382646	SQUARE #2	10g x 1 1/2 (38mm) 304SS SQ #2 PAN S/TAP SCREW x 1000	CORNER BLOCK
1382691	PHILLIPS #2	10g x 1 1/2 (38mm) PHIL PAN HEAD S/TAP SCREW SSS x 1000	
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
1380165	AS4-4 RIVETS x 1000	LOCK STRIKER

Seals

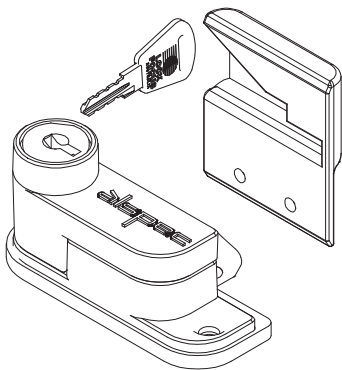
IMAGE	PART #	FINISH	DESCRIPTION
	1377300	BLACK (034)	PBF48-475-2B FINSEAL T-SLOT x 500m
	1377304	BLACK (034)	PBF48-650-2B FINSEAL T-SLOT x 400m
	1376359	BLACK (034)	CE48 CO-EXT BAFFLE (13.5mm HEIGHT) x 500m ROLL
	1376452	BLACK (034)	MS1B MULLION RUBBER x 100m
	1376451	BLACK (034)	MS1B MULLION RUBBER x 1m
	1376449	BLACK (034)	MS6 MULLION SEAL PVC x 200m
	1376746	BLACK (034)	CE100 CO-EXT BULB (10mm HEIGHT) x 50m ROLL

Frame Joint Gaskets

PART #	DESCRIPTION	FINISH
1385512	FJG45 FRAME JOINT GASKET PVC FOAM TAPE 45 x 1.6mm 45.7m	BLACK (034)
		GREY (036)
1385551	FJG001 45mm x 102mm 1010 PER ROLL	BLACK (034)
		GREY (036)
1315050	RDHA15 EVOPLUS SILL/TRANSOM GASKET	BLACK (034)
1385509	FJG50 FRAME JOINT GASKET PVC FOAM TAPE 50 x 1.6mm 45.7m	BLACK (034)
		GREY (036)

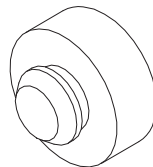
6. Hardware & Components

Accessories



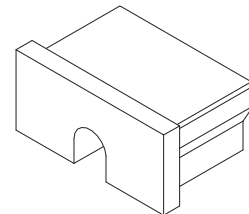
ALSPEC DOUBLE HUNG LOCK WITH KEY

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



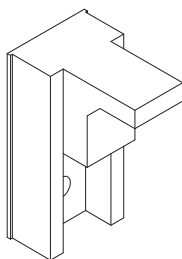
ALT009 8mm HIGH GROMMET

PART	1314103
FINISH	BLACK (034)
QTY	EACH



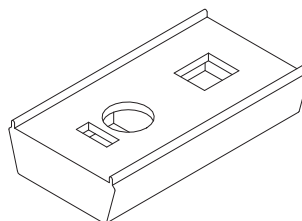
ALT005 FLAT THRESHOLD BUMP STOP

PART	1314100
FINISH	BLACK (034)
QTY	EACH



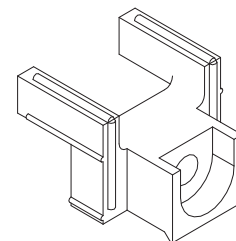
RDHA7 SINGLE HUNG BRACKET

PART	1315047
FINISH	BLACK (034)
QTY	EACH



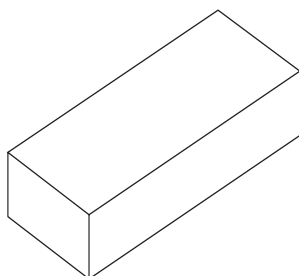
RDHA3 BALANCE CLIP BRACKET

PART	1315043
FINISH	BLACK (034)
QTY	EACH



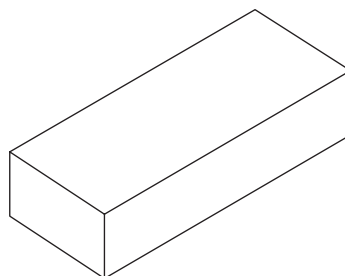
RDHA1 CORNER BLOCK

PART	1315041
FINISH	BLACK (034)
QTY	EACH



SETTING BLOCK 13 x 15 x 75mm x BAG OF 50

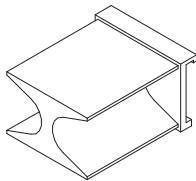
PART	1376730
FINISH	BLACK (034)
QTY	BAG



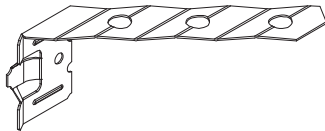
SETTING BLOCK 17 x 30 x 75mm x BAG OF 50

PART	1376734
FINISH	BLACK (034)
QTY	BAG

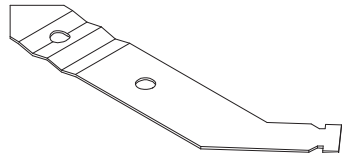
Screen Accessories



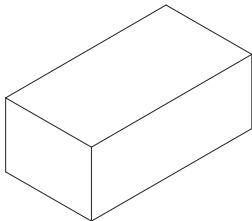
FS2 25 x 11mm CROSS BRACE CLIP	
PART	1324903
FINISH	BLACK (034) SHALE GREY MATT (0FT)
QTY	EACH



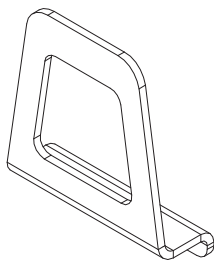
BRICK LUG (NAIL FIN TYPE) D21	
PART	1315101
FINISH	NOT SPECIFIED (099)
QTY	EACH



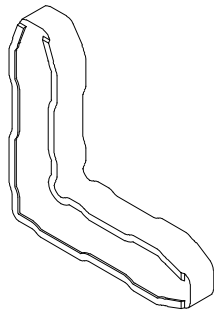
BRICK LUG (TWIST IN TYPE) M185-6	
PART	1315100
FINISH	NOT SPECIFIED (099)
QTY	EACH



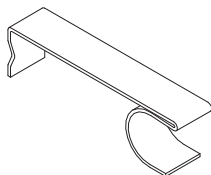
RDHA8 FLYSCREEN TENSION BLOCK 16x10x30mm x (600 ROLL)	
PART	1315048
FINISH	BLACK (034)
QTY	ROLL



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



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



121 TAKE OUT CLIP	
PART	1348243
FINISH	SATIN S/LESS STEEL (0A6)
QTY	EACH

6. Hardware & Components

Series 100 Balances



SERIES 100 BALANCES (REFER TO PG 6.6 FOR SIZE GUIDE)

PART	1348150 - 1348271
FINISH	NOT SPECIFIED (099)
QTY	EACH

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	A2290 - 584mm 10.4 - 13.6kg
1348154	A1490 - 381mm 5.9kg - 9.0kg	1348256	A22DS.35 584mm 13.60 -15.88kg
1348156	A1610 - 432mm 2.2kg - 3.6kg	1348257	A22DS.40 584mm 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 (continued)

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:

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

CALCULATE WEIGHT
H x W x WF = 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**

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

		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	154										
	537		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	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	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	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	182	182	182	182	183	183	183	184	184	184	184	258	258	258	259	260
	792		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	196	197	197	264
	894				199	199	199	199	199	200	200	200	200	201	201	201	201	201	201	202	202	202	203	203	203	204	204	266
	945					206	206	206	206	206	207	207	207	207	208	208	208	208	208	209	209	209	210	210	210	211	211	268
	996					213	213	213	213	213	214	214	214	214	215	215	215	215	215	216	216	216	217	217	217	218	218	270
	1047					220	220	220	220	220	221	221	221	221	222	222	222	222	222	223	223	223	223	224	224	224	224	272
	1098						226	226	226	226	226	227	227	227	227	227	228	228	228	229	229	229	229	230	230	230	230	274
	1149						232	232	232	232	232	233	233	233	233	233	234	234	234	235	235	235	235	236	236	236	236	276
	1200										238	238	238	238	238	238	239	239	239	240	240	240	240	241	241	241	241	278
		MAX 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

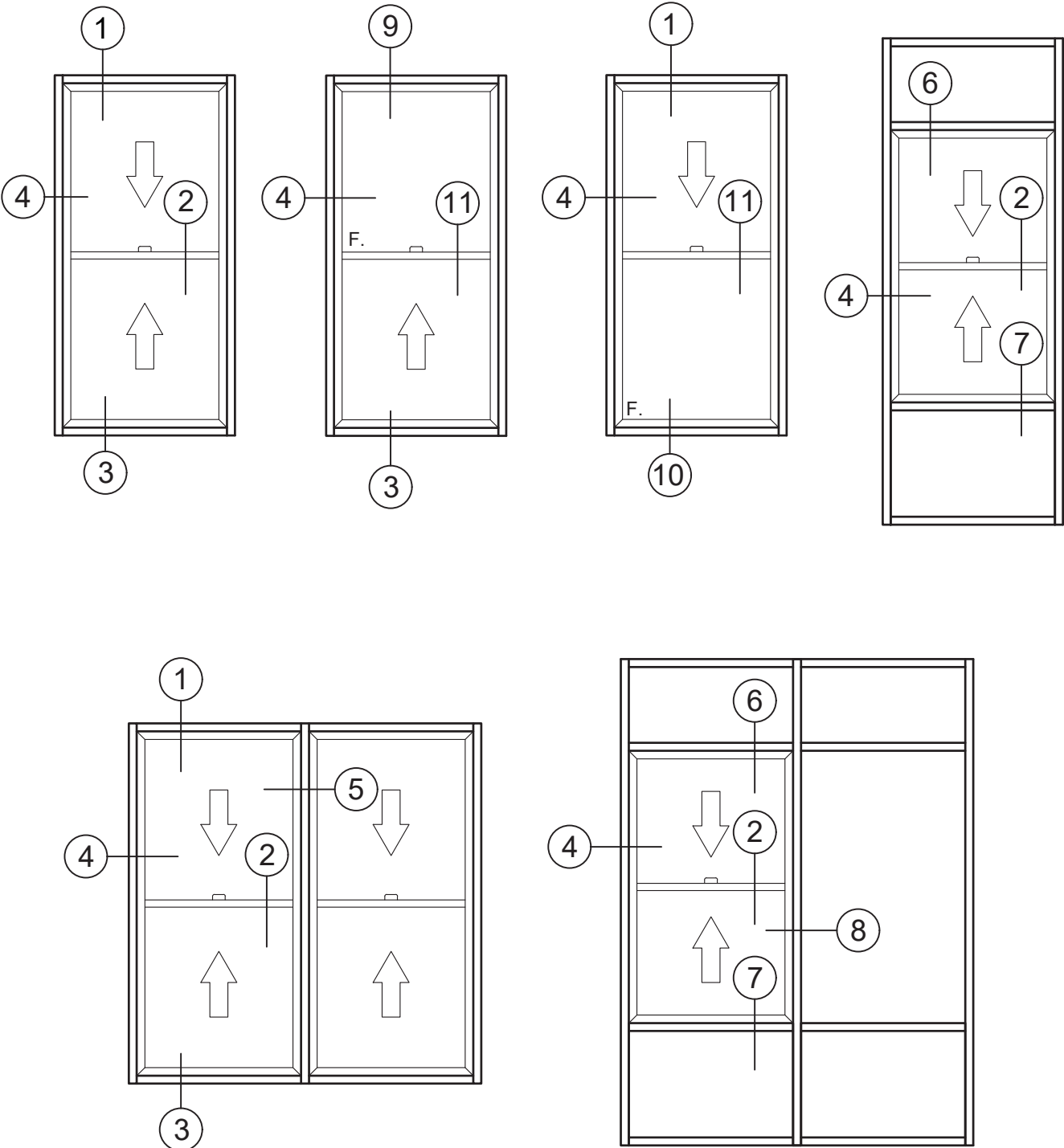
- Premium 100% silicone
- UV Stable
- 2-5 minute skin time
- Flexible + 25%
- No slump

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

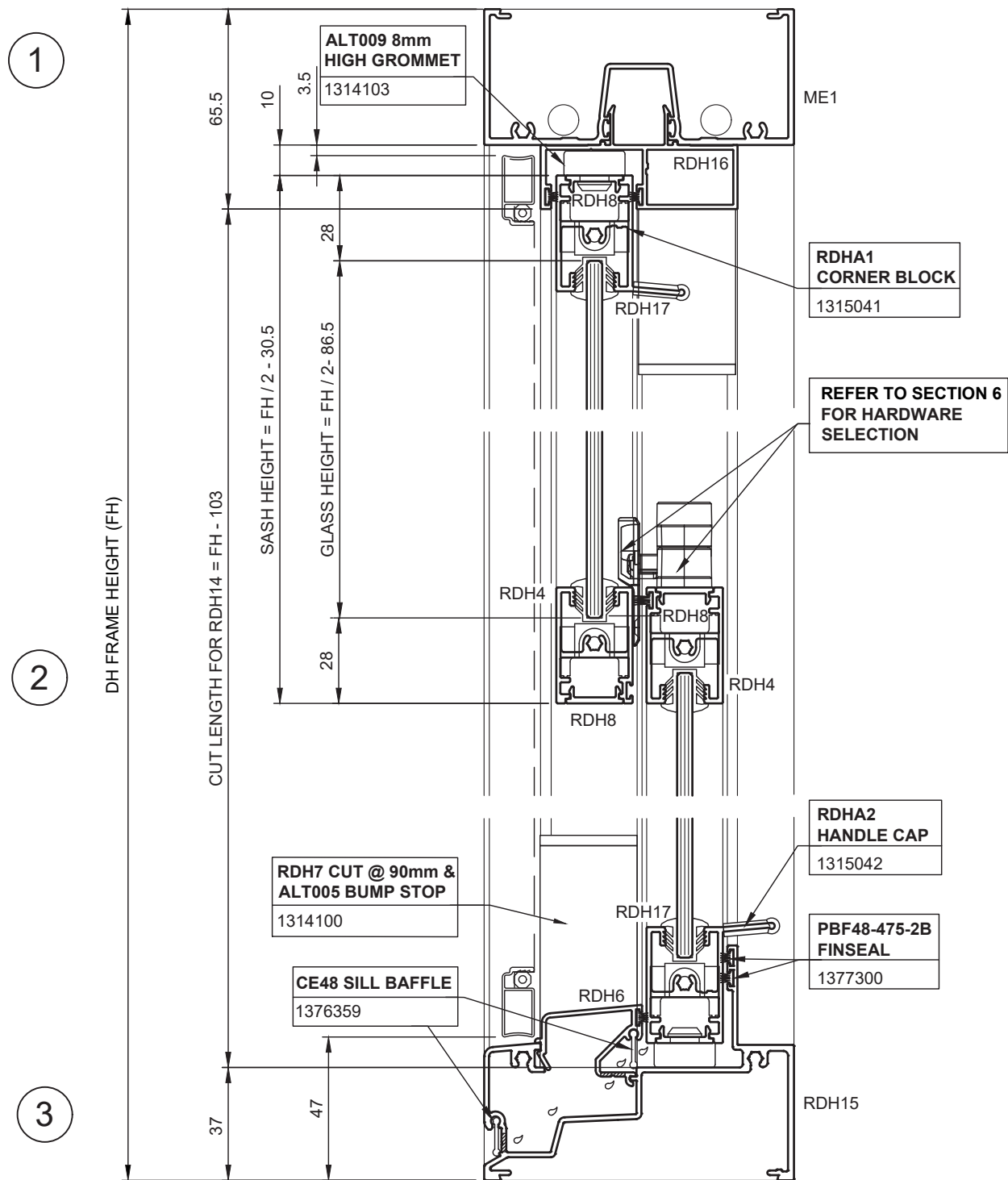
6. Hardware & Components

Silicone Product Codes

Product Category	Item No.	Alspec Part No.	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

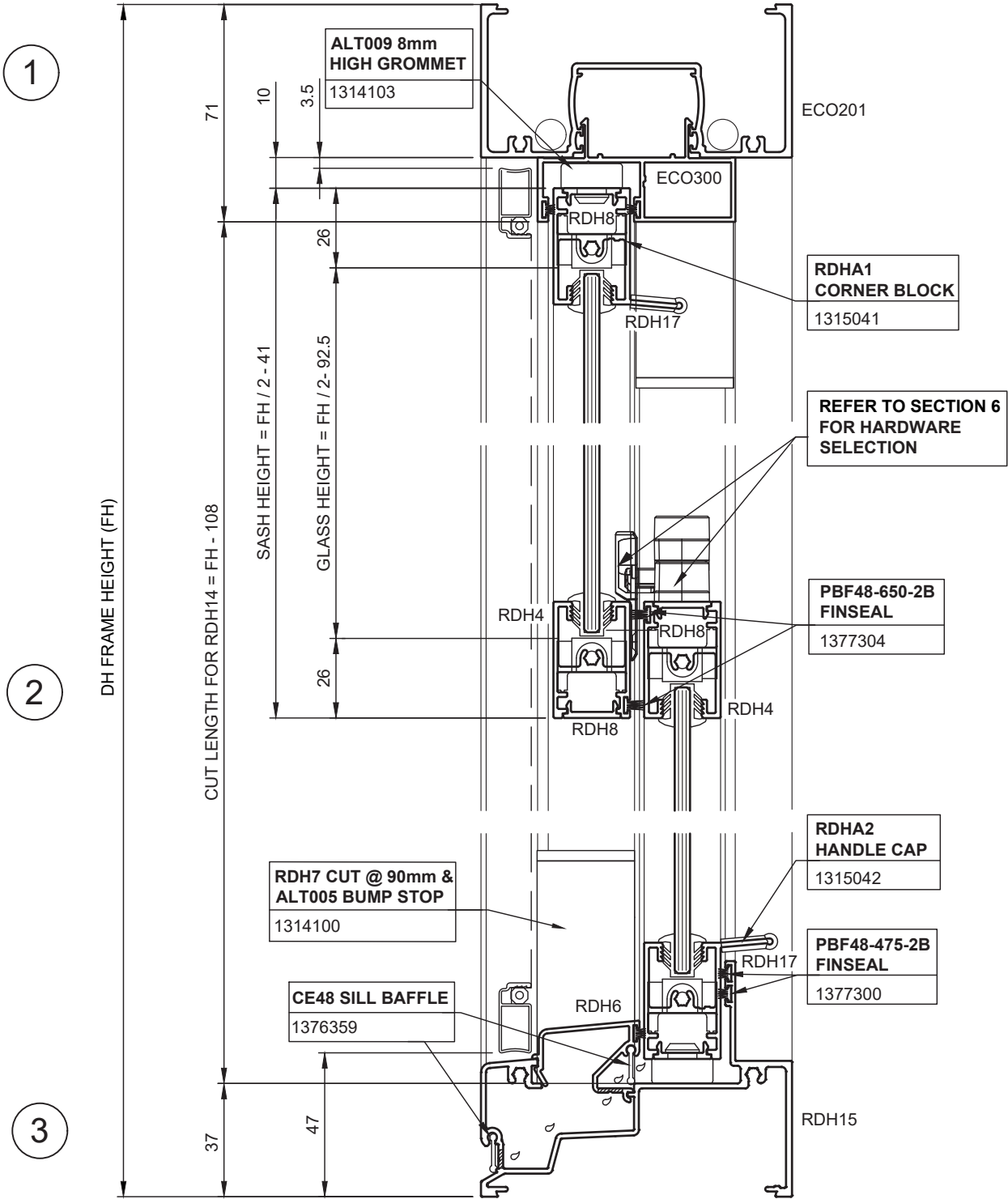


Vertical Detail - Standard Single Glazed

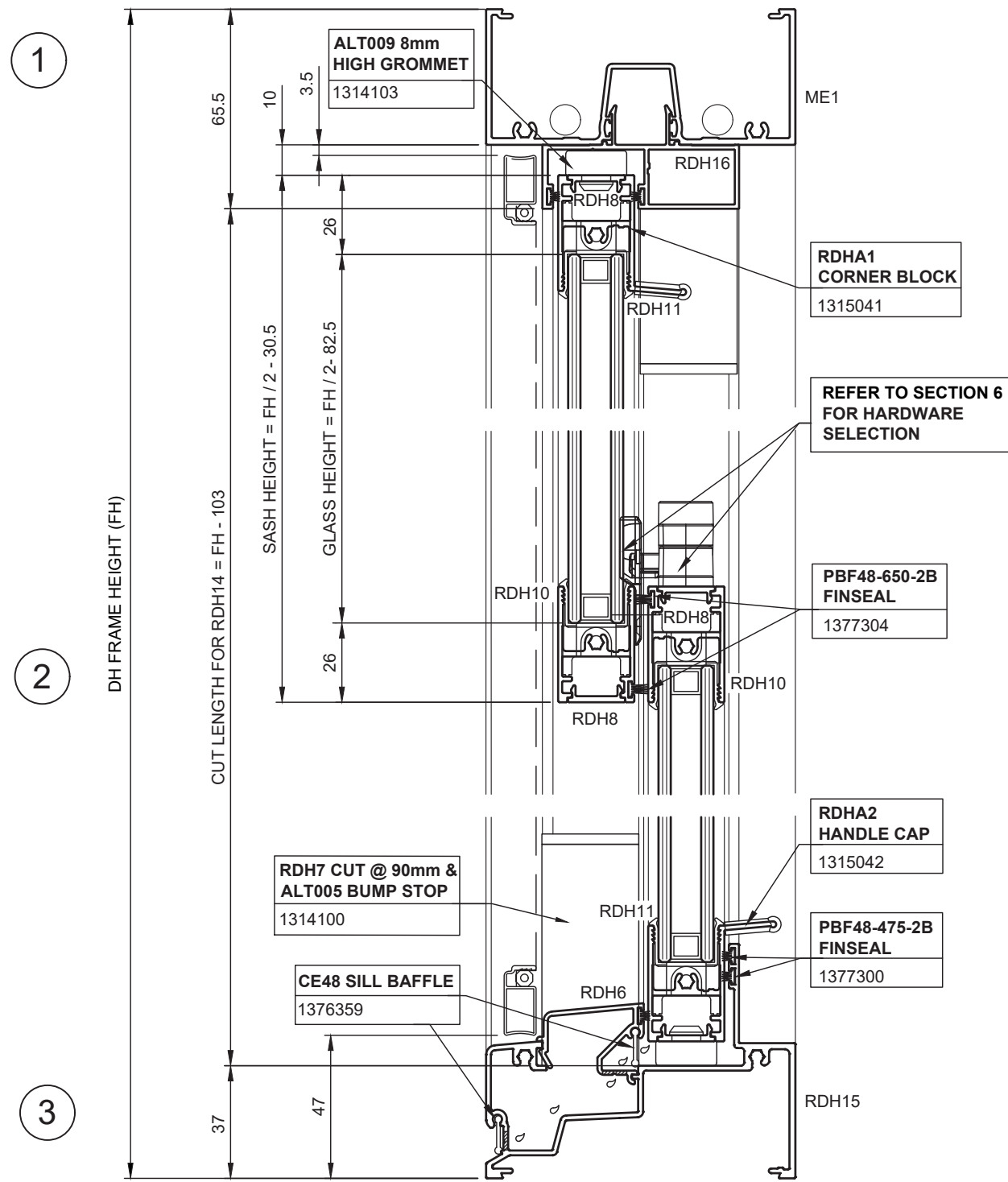


8. Typical Details

Vertical Detail - Standard Single Glazed

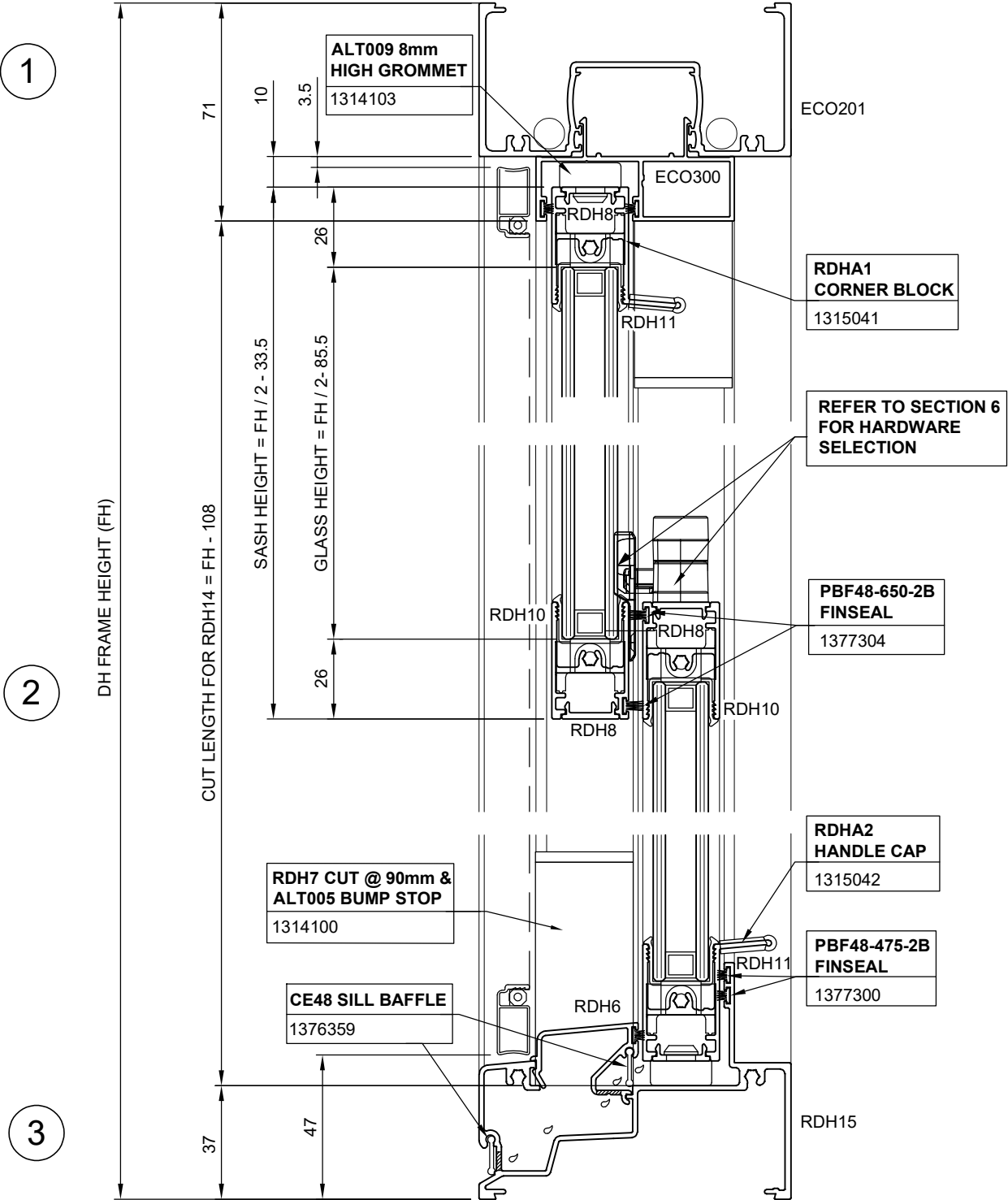


Vertical Detail - Standard Double Glazed



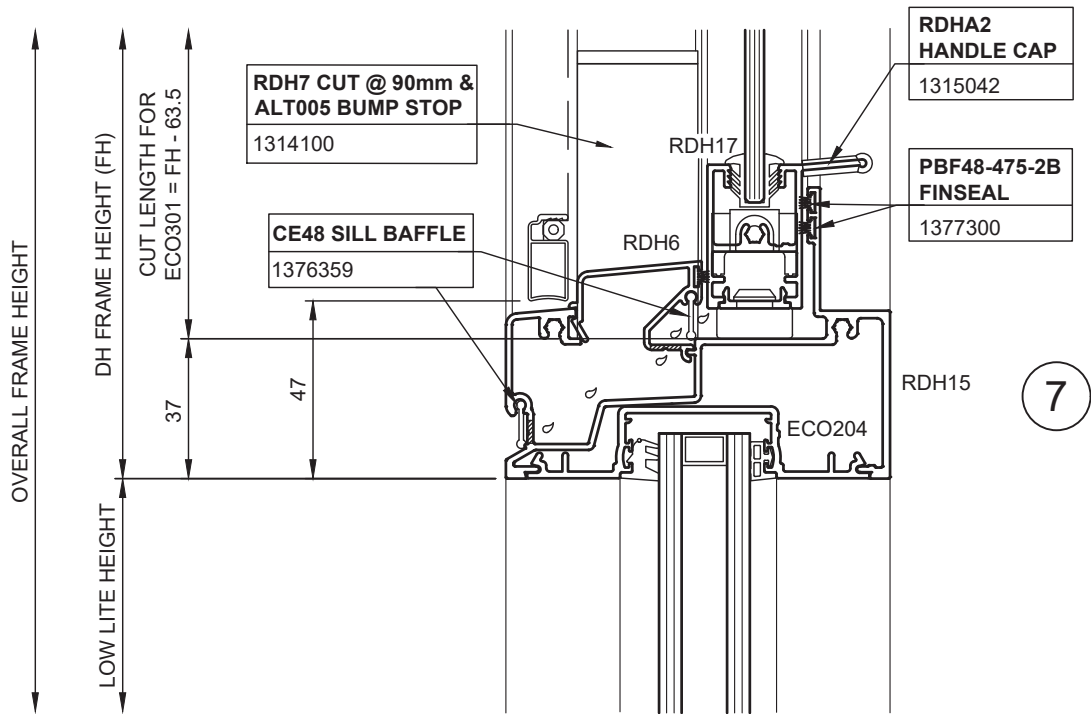
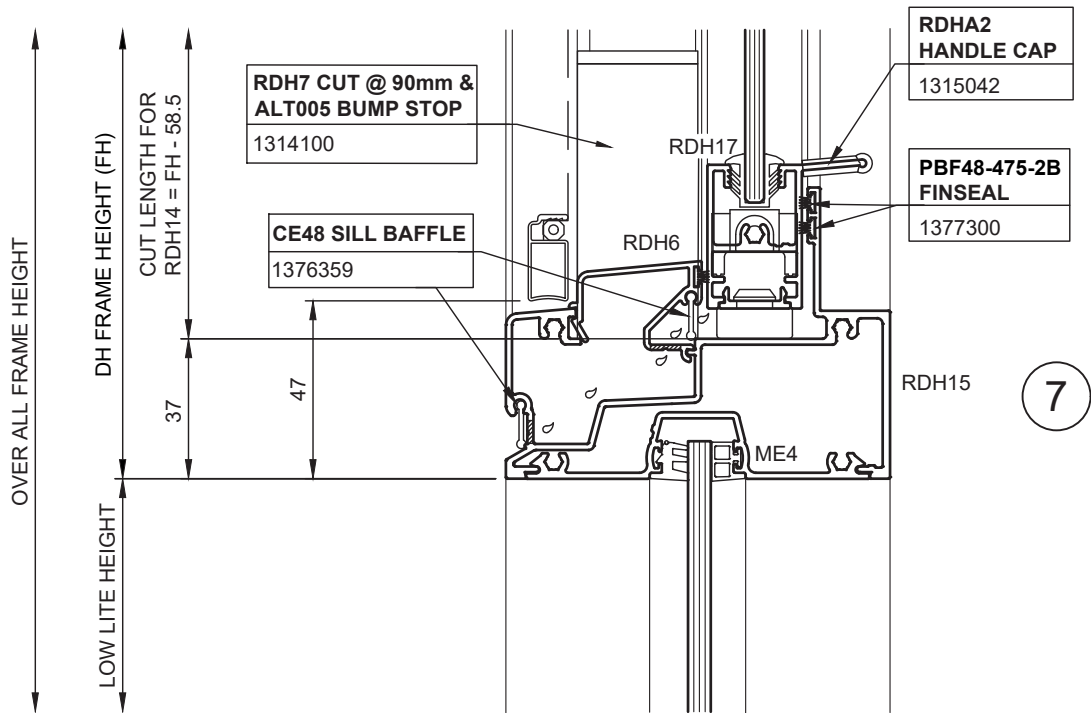
8. Typical Details

Vertical Detail - Standard Double Glazed



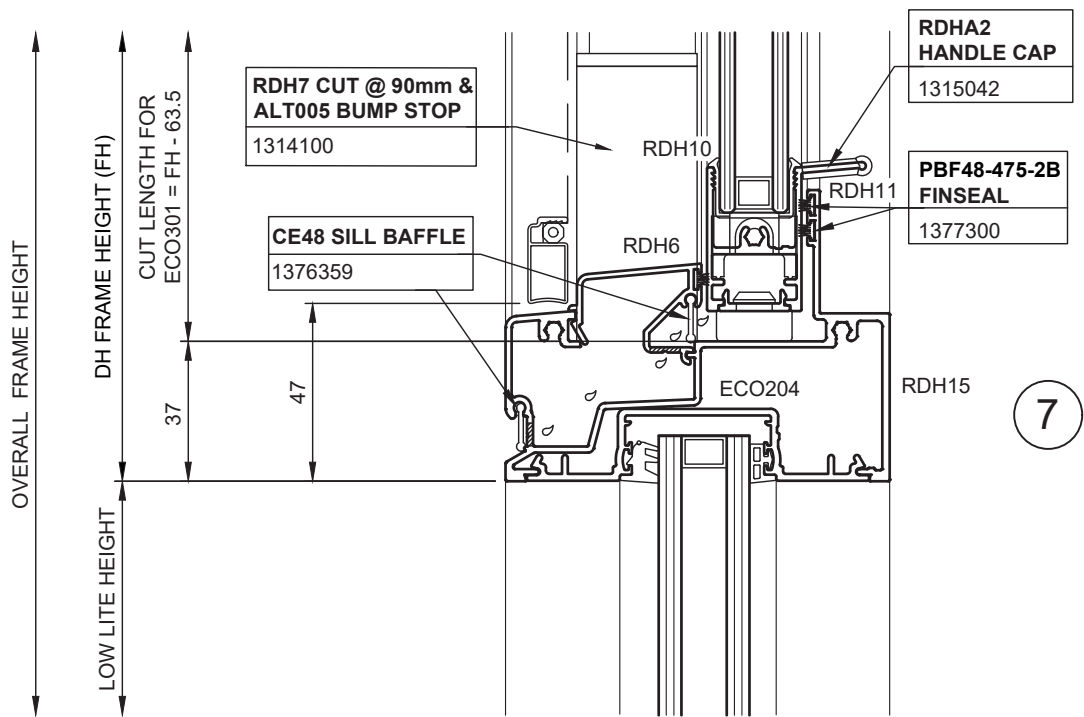
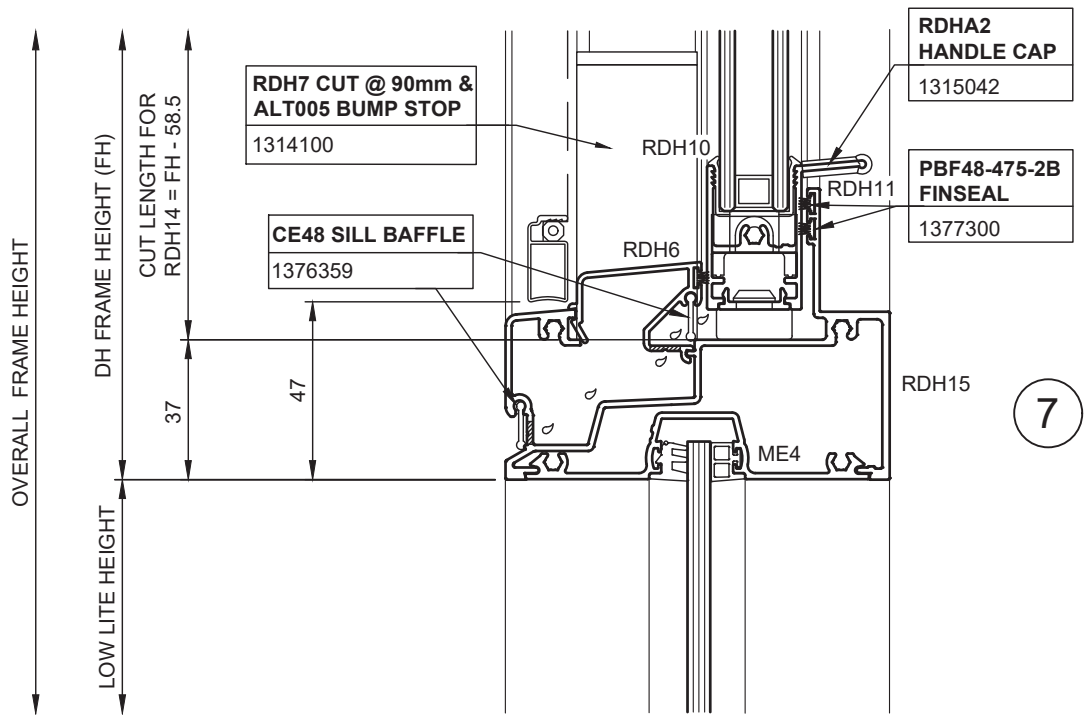
8. Typical Details

Vertical Detail - Single Glazed Sash with Low Lite



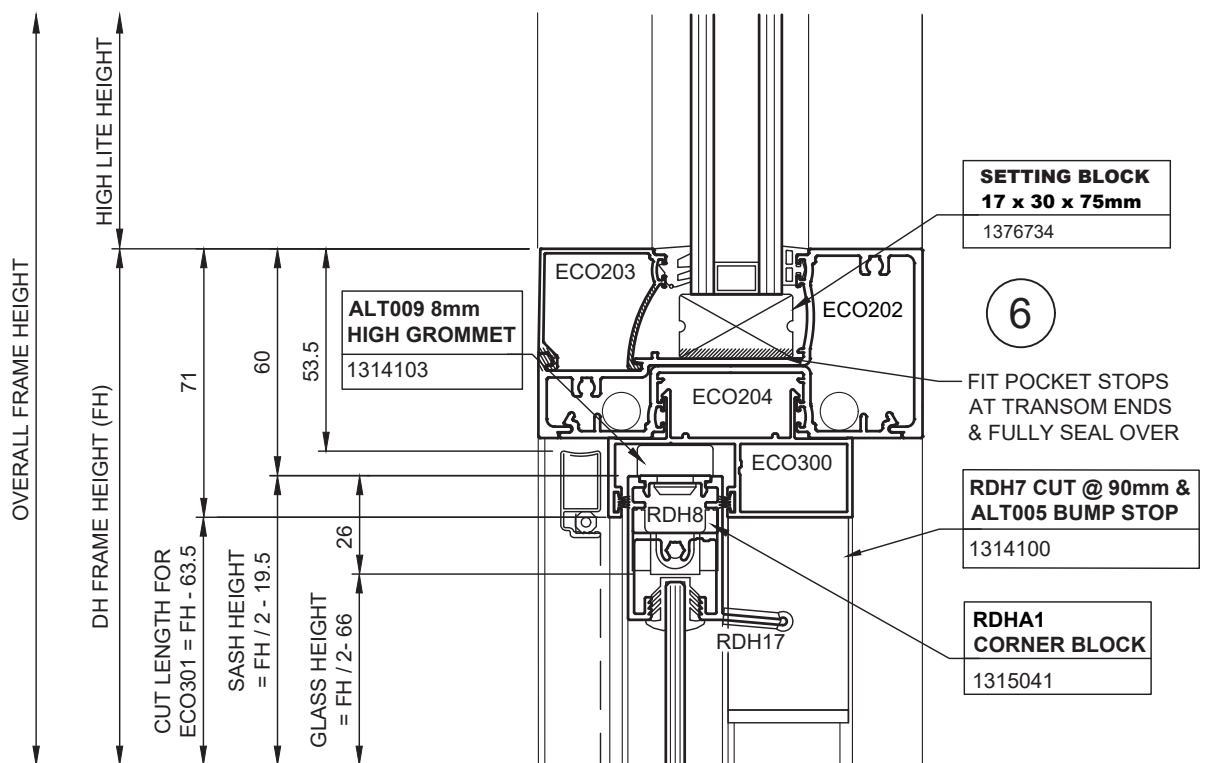
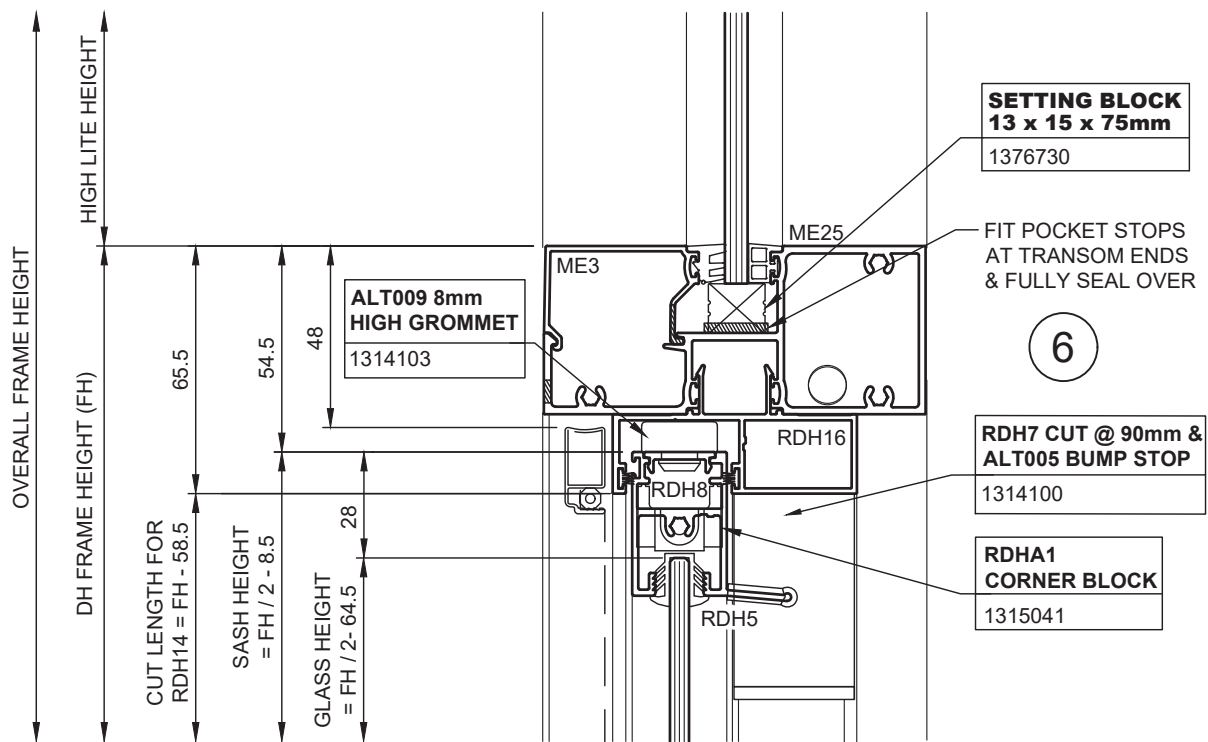
8. Typical Details

Vertical Detail - Double Glazed Sash with Low Lite



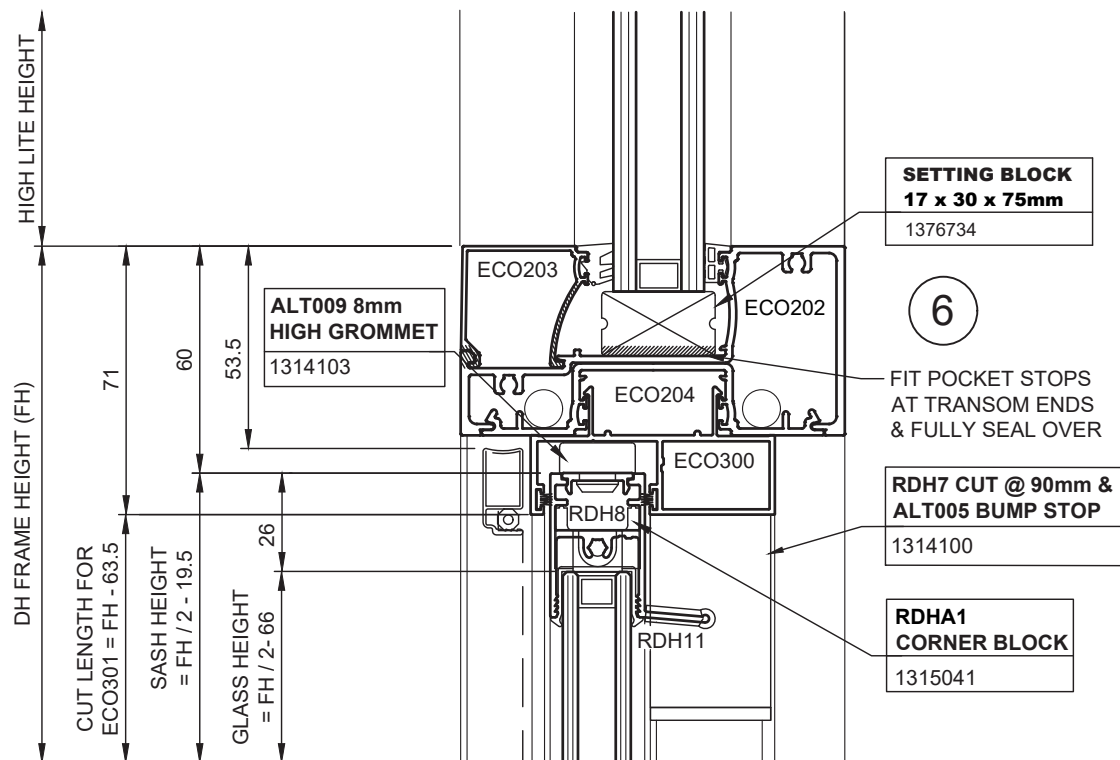
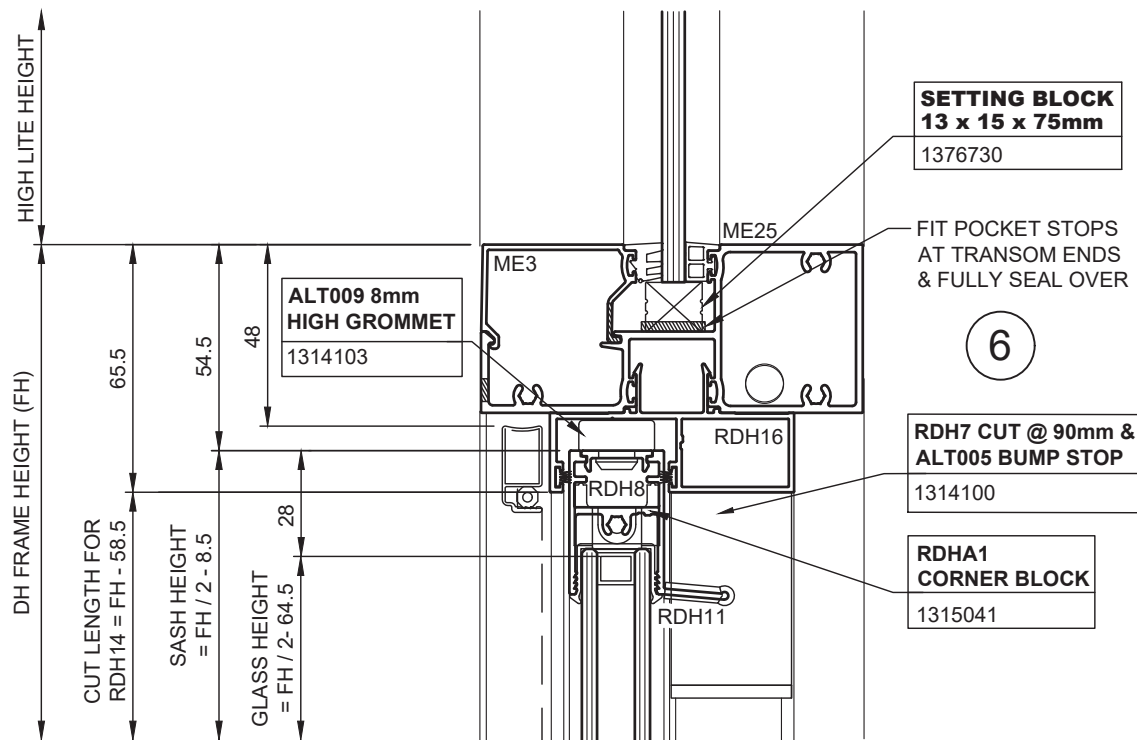
8. Typical Details

Vertical Detail - Single Glazed Sash with High Lite



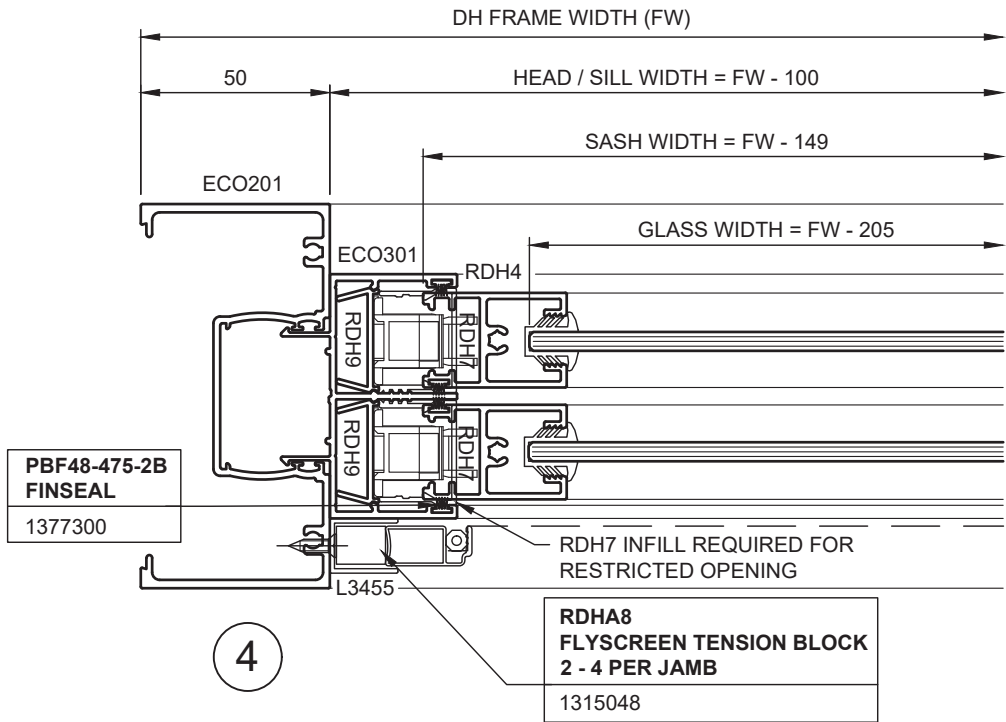
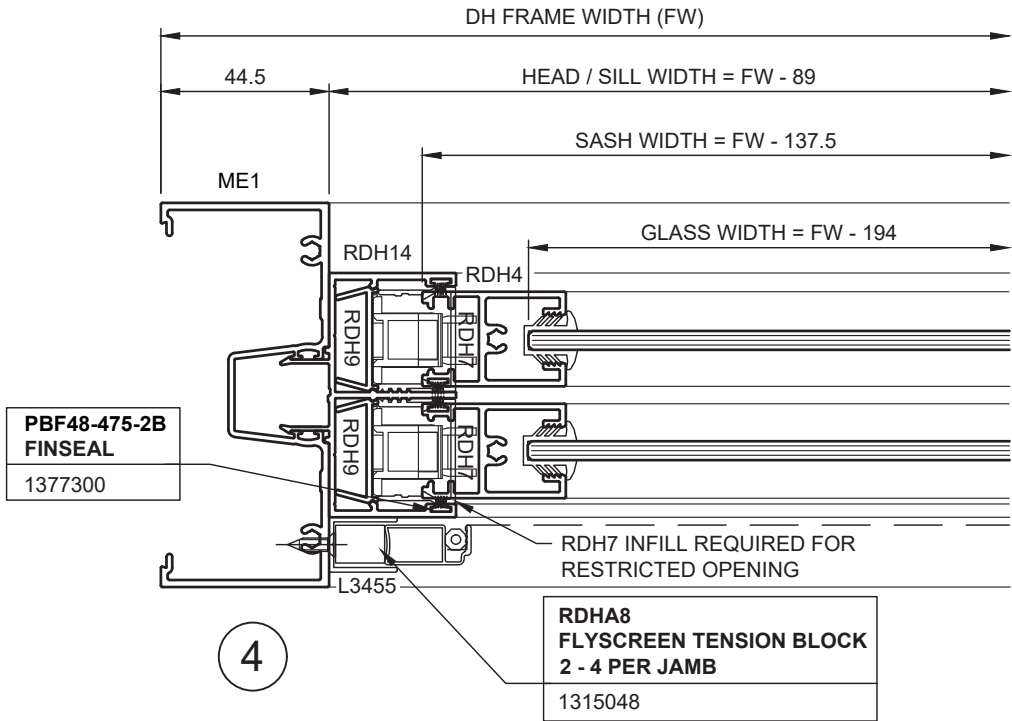
8. Typical Details

Vertical Detail - Double Glazed Sash with High Lite



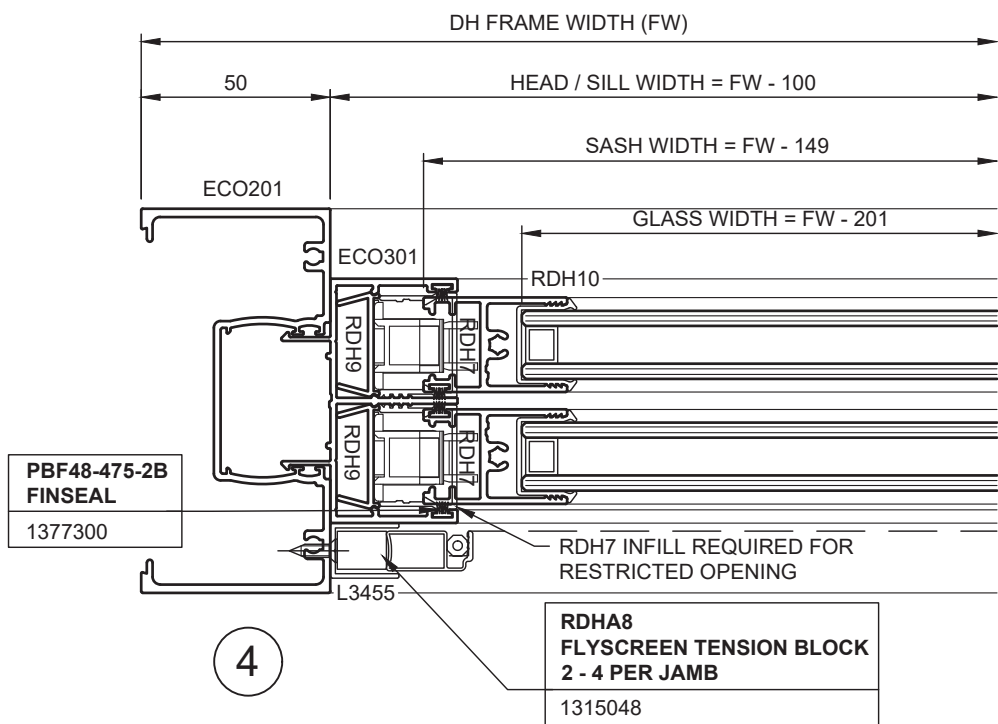
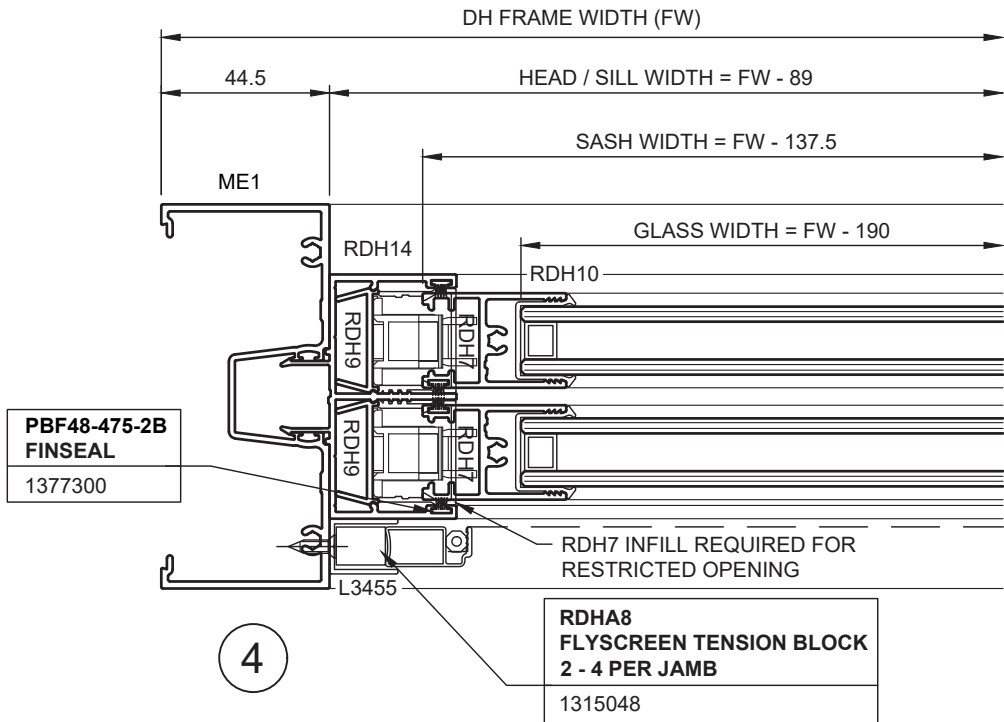
8. Typical Details

Horizontal Detail - Single Glazed Jambs



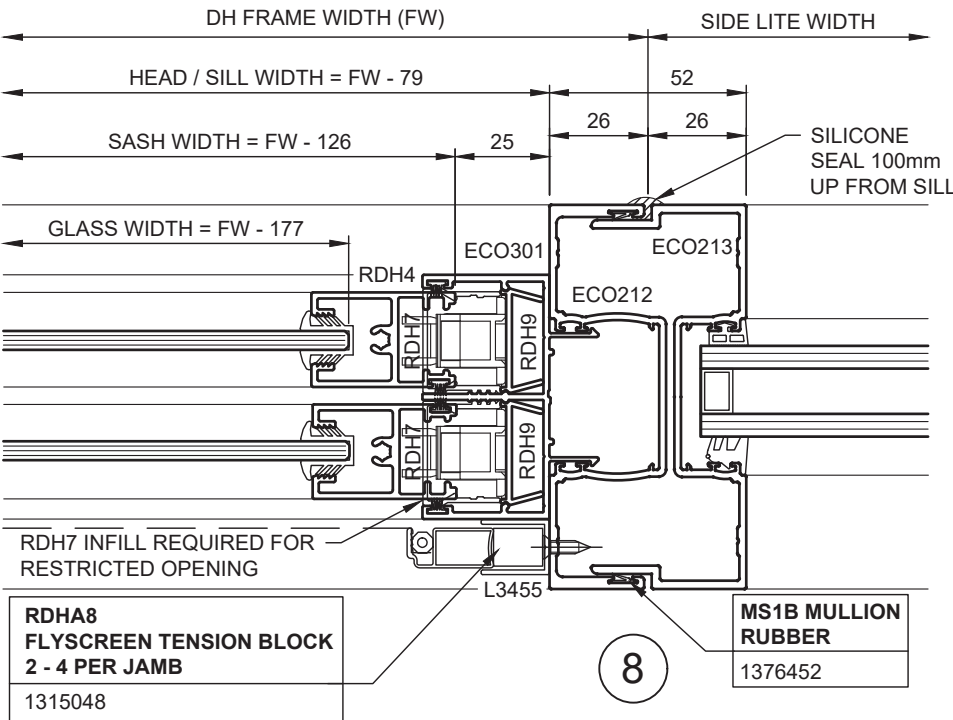
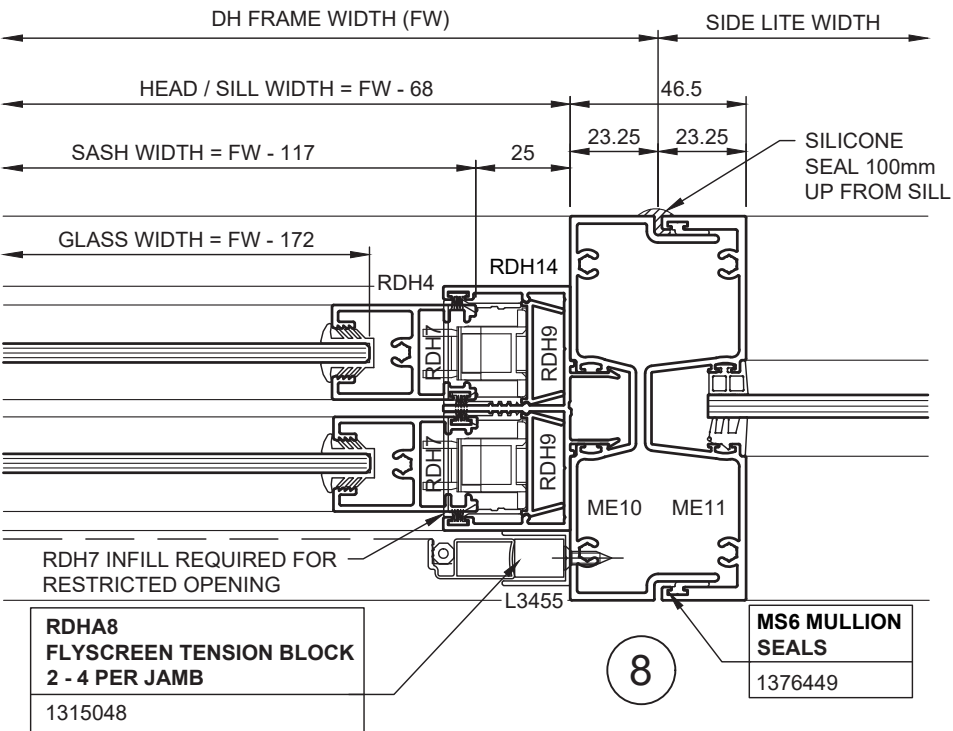
8. Typical Details

Horizontal Detail - Double Glazed Jambs



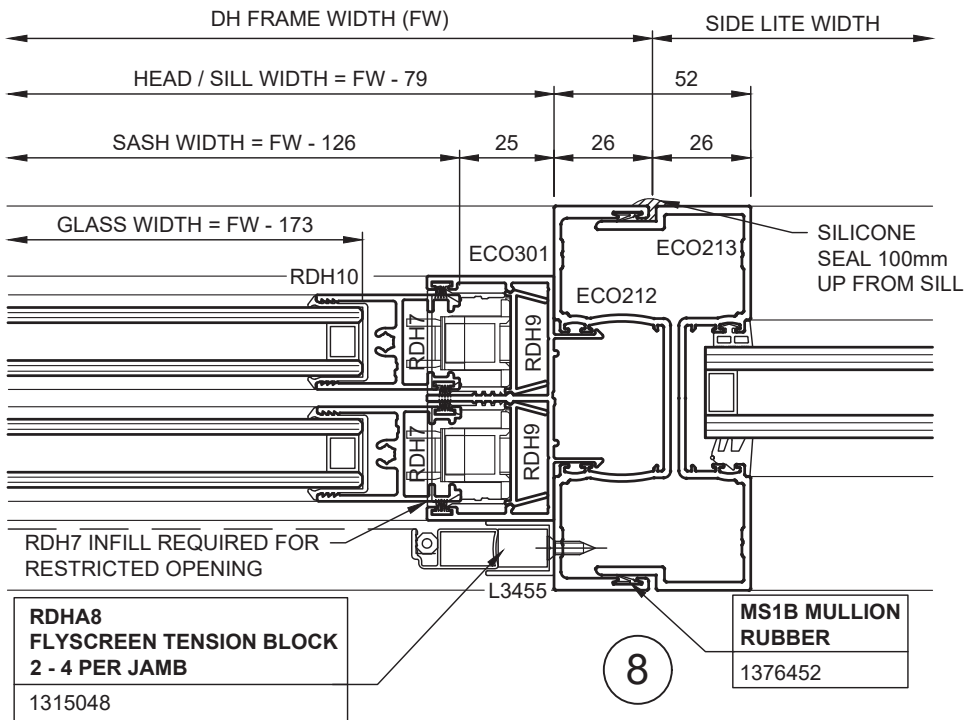
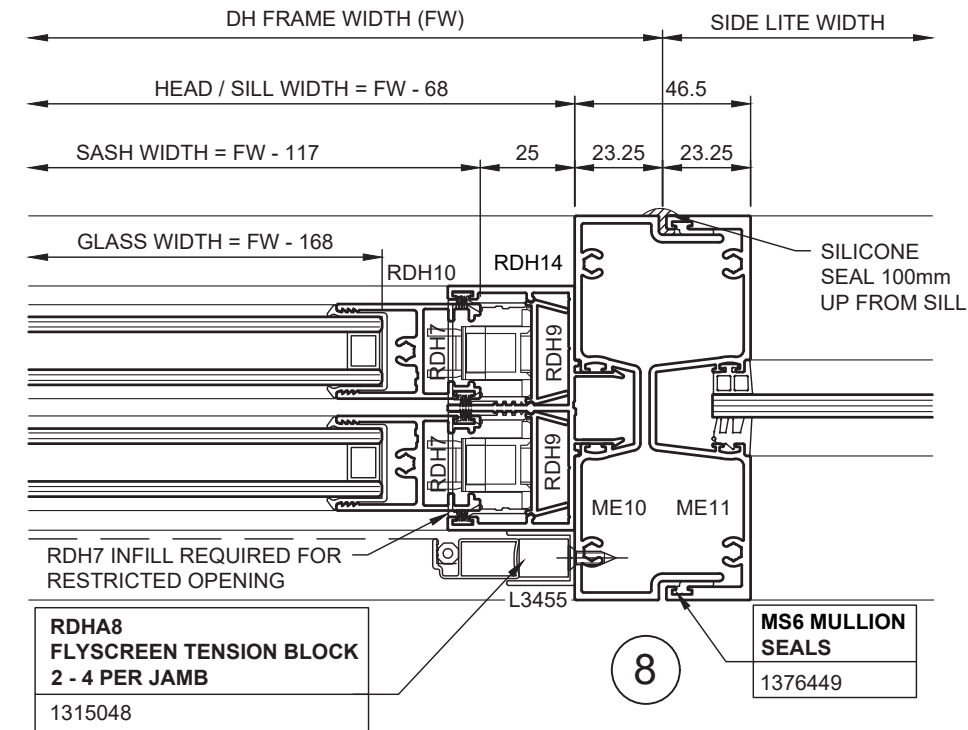
8. Typical Details

Horizontal Detail - Single Glazed Mullion with Side Lite

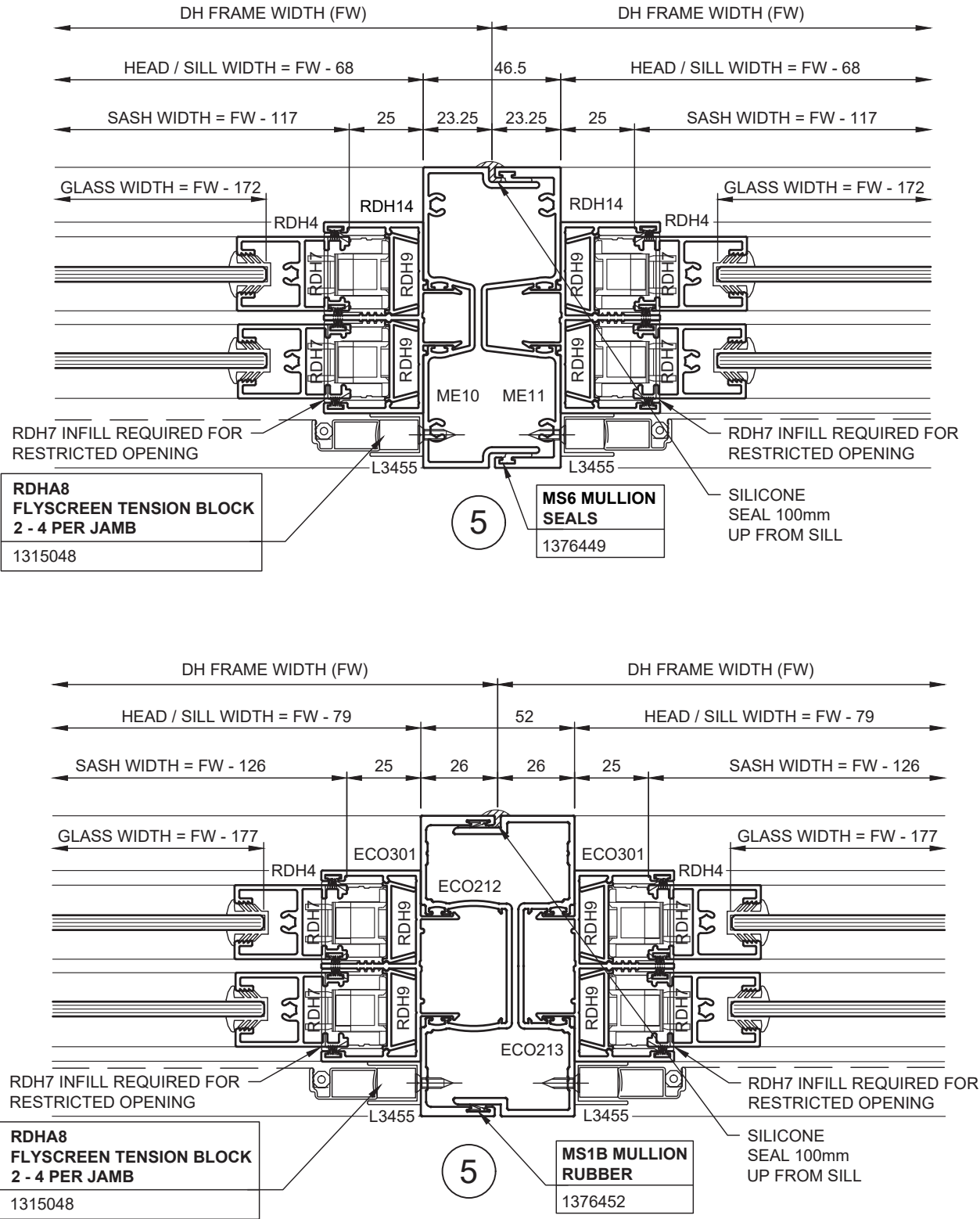


8. Typical Details

Horizontal Detail - Double Glazed Mullion with Side Lite

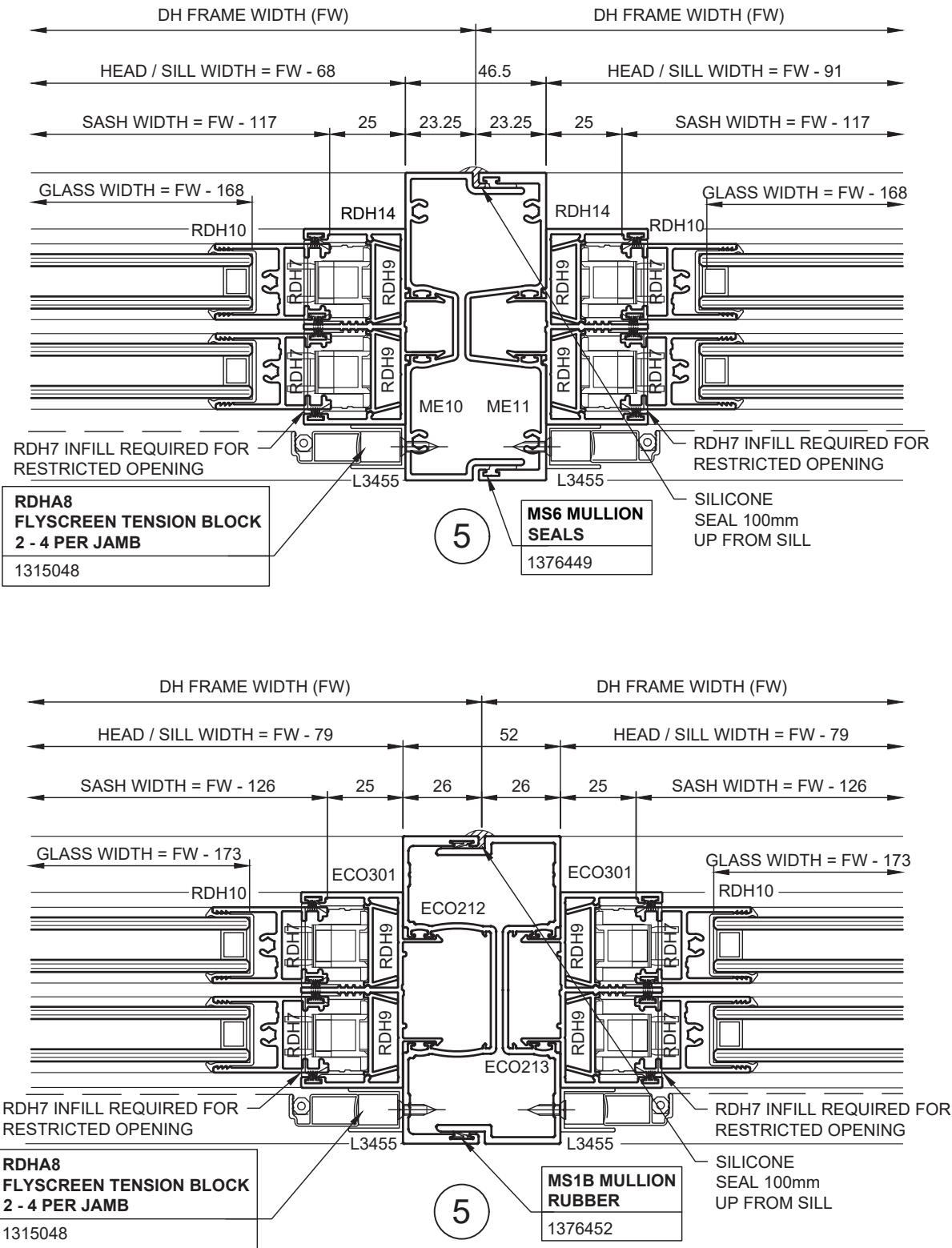


Horizontal Detail - Single Glazed Mullion Detail

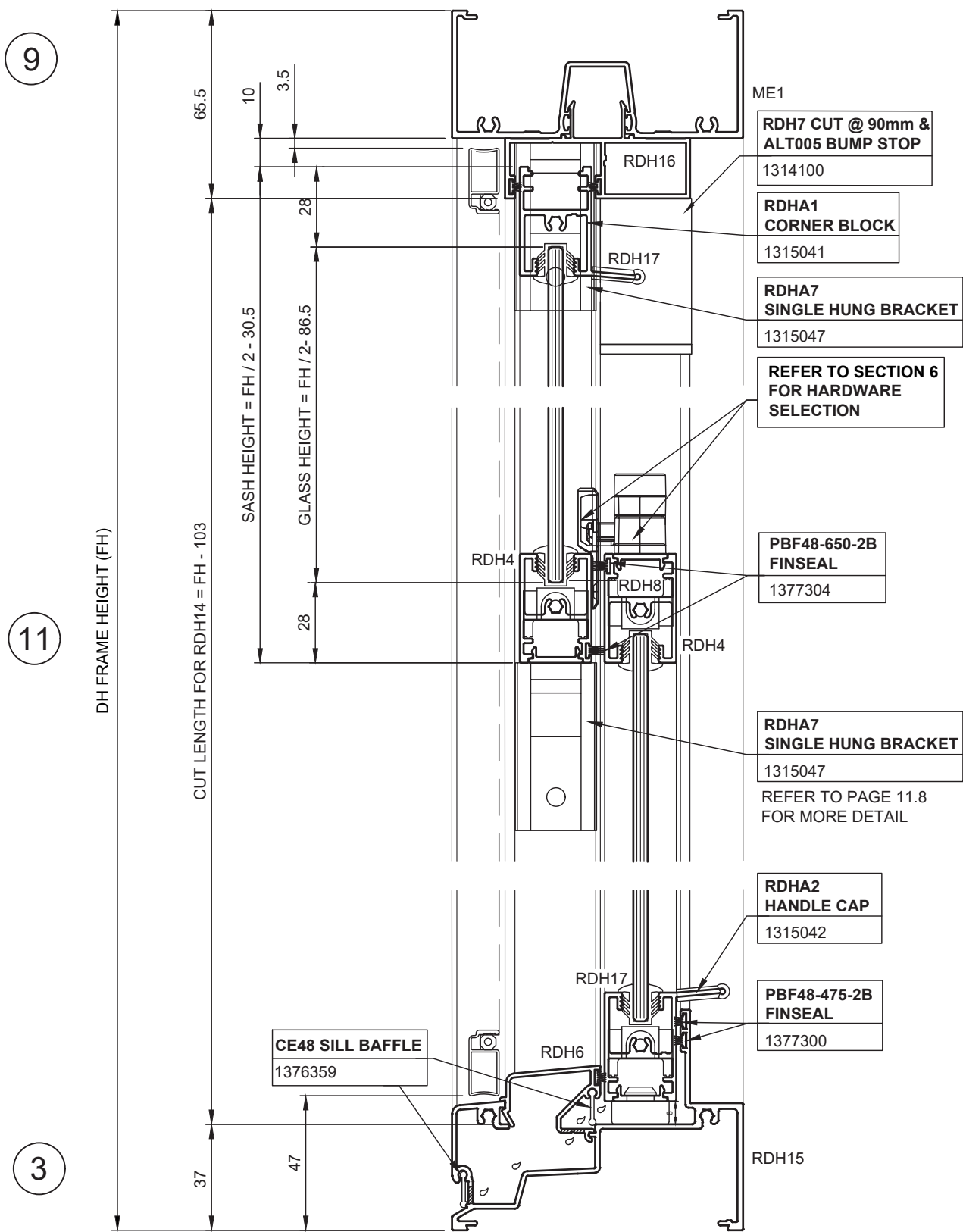


8. Typical Details

Horizontal Detail - Double Glazed Mullion Detail

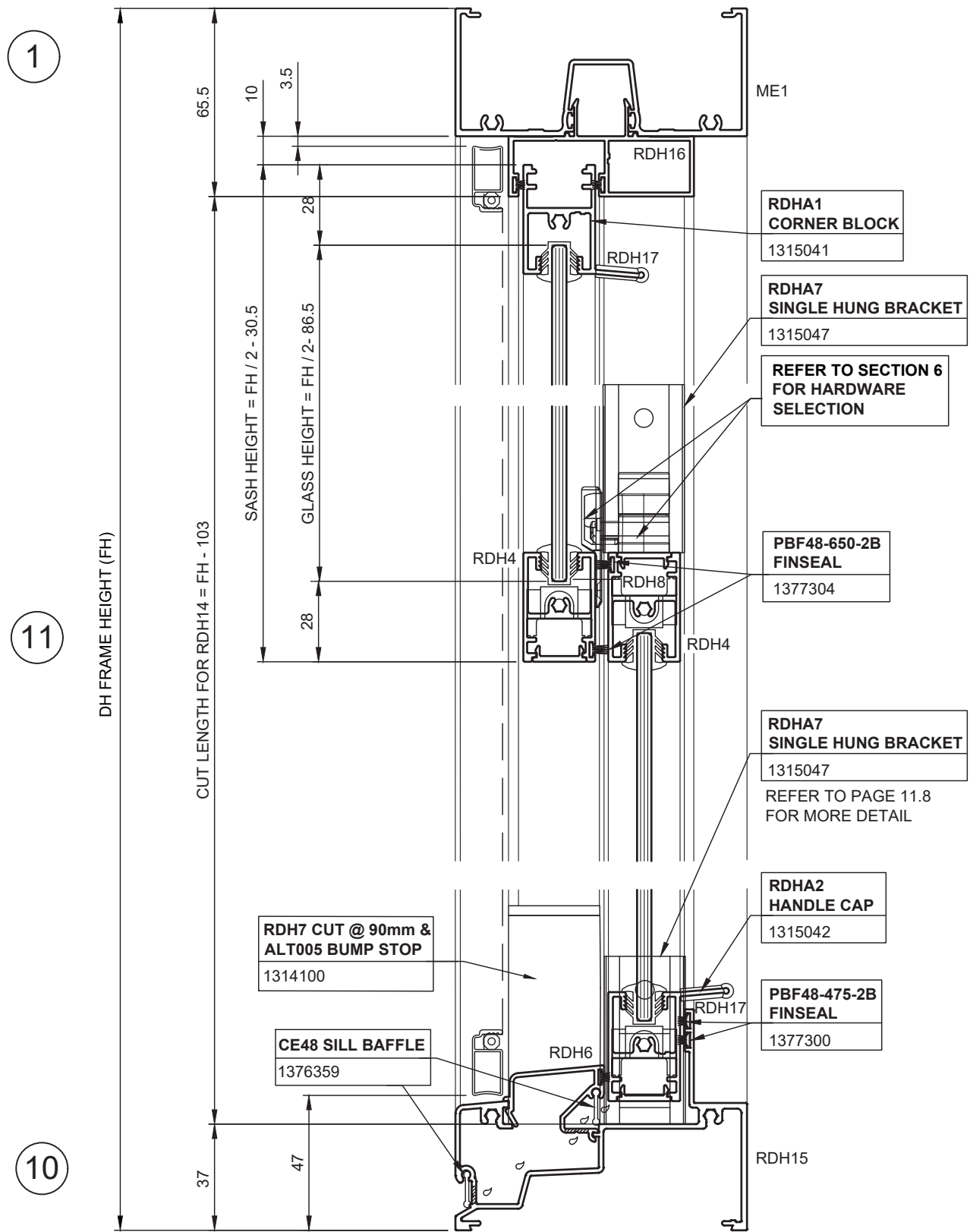


Vertical Detail - Single Hung Fixed Top Sash

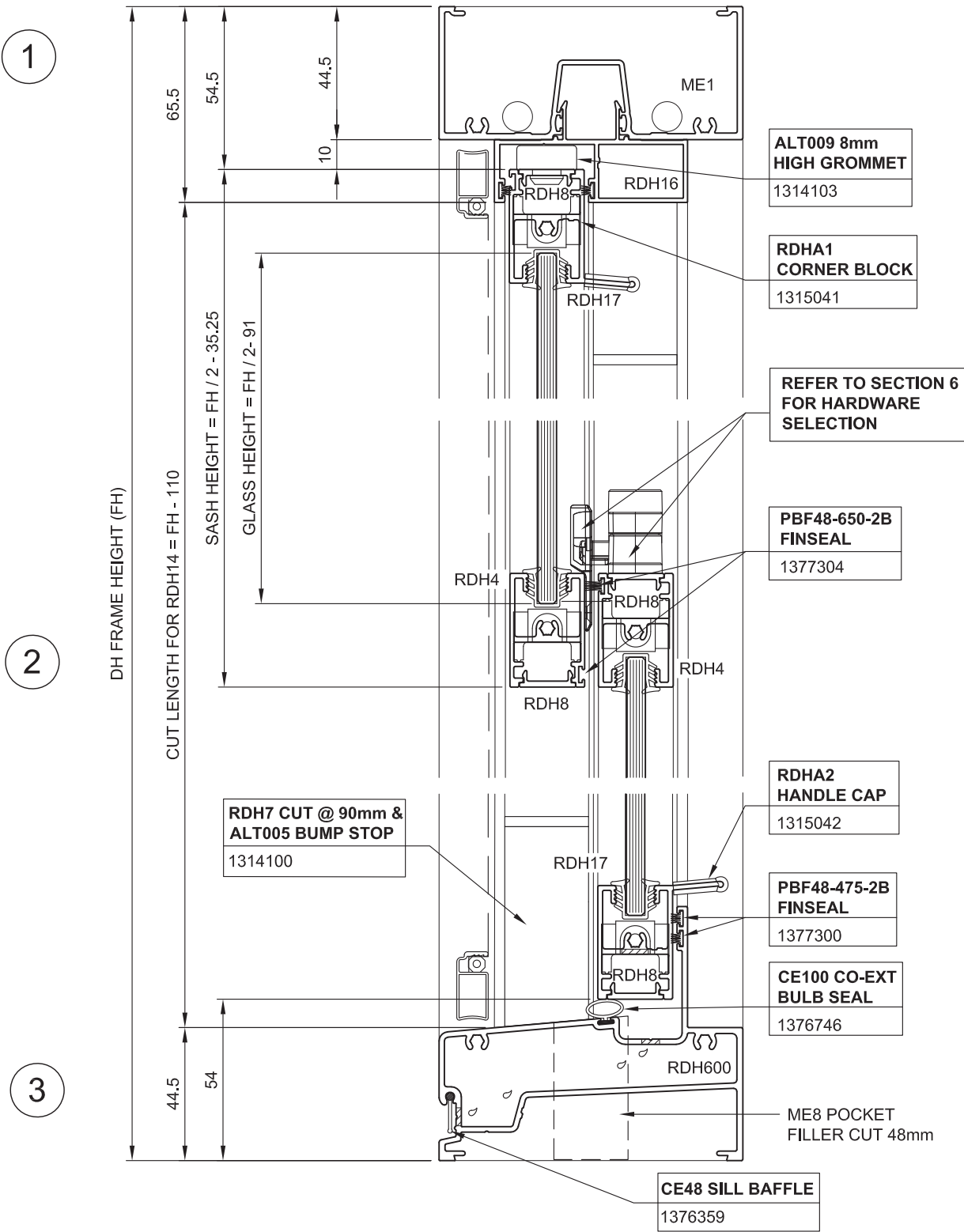


8. Typical Details

Vertical Detail - Single Hung Fixed Bottom Sash

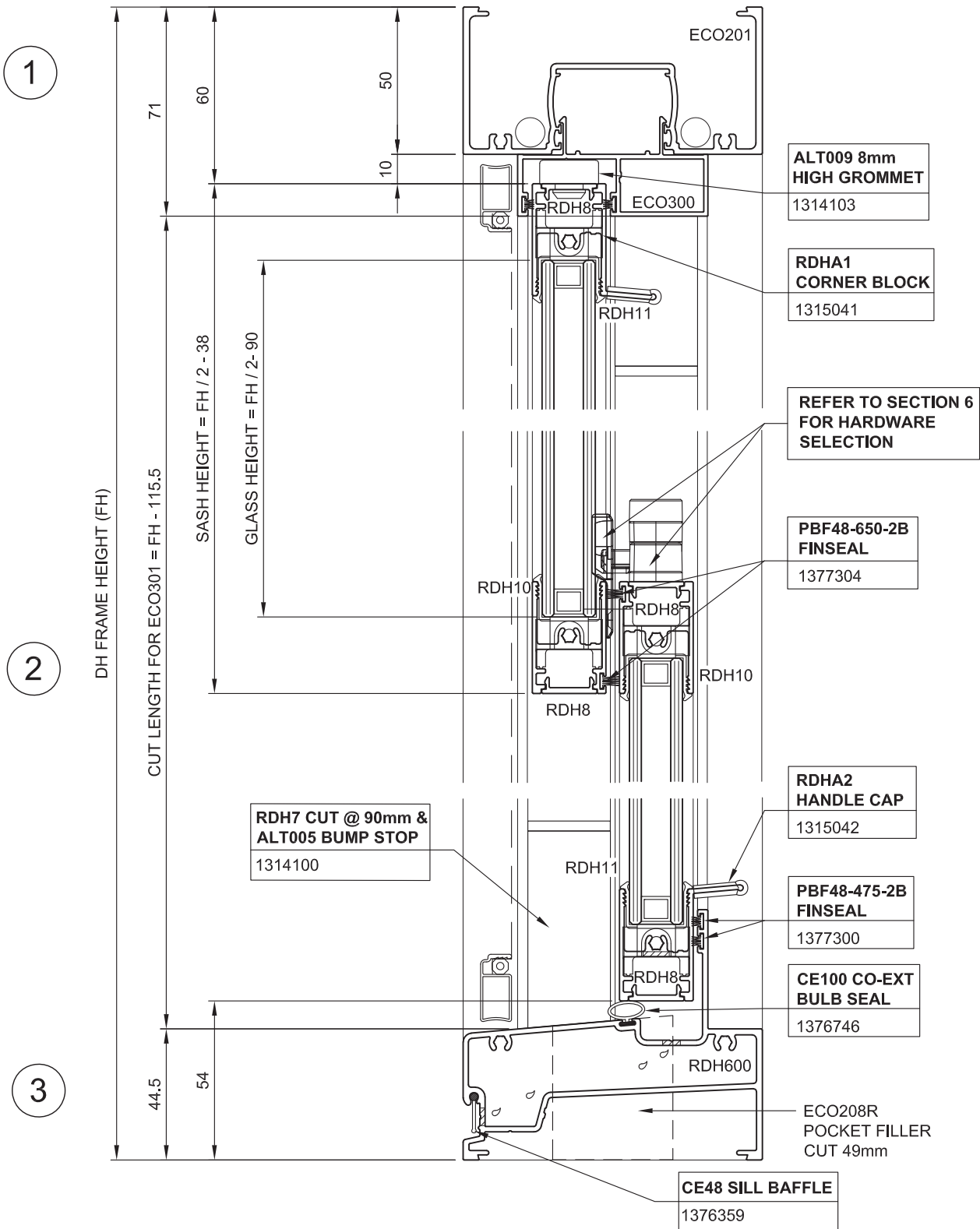


Vertical Detail - High Performance Sill - Single Glazed



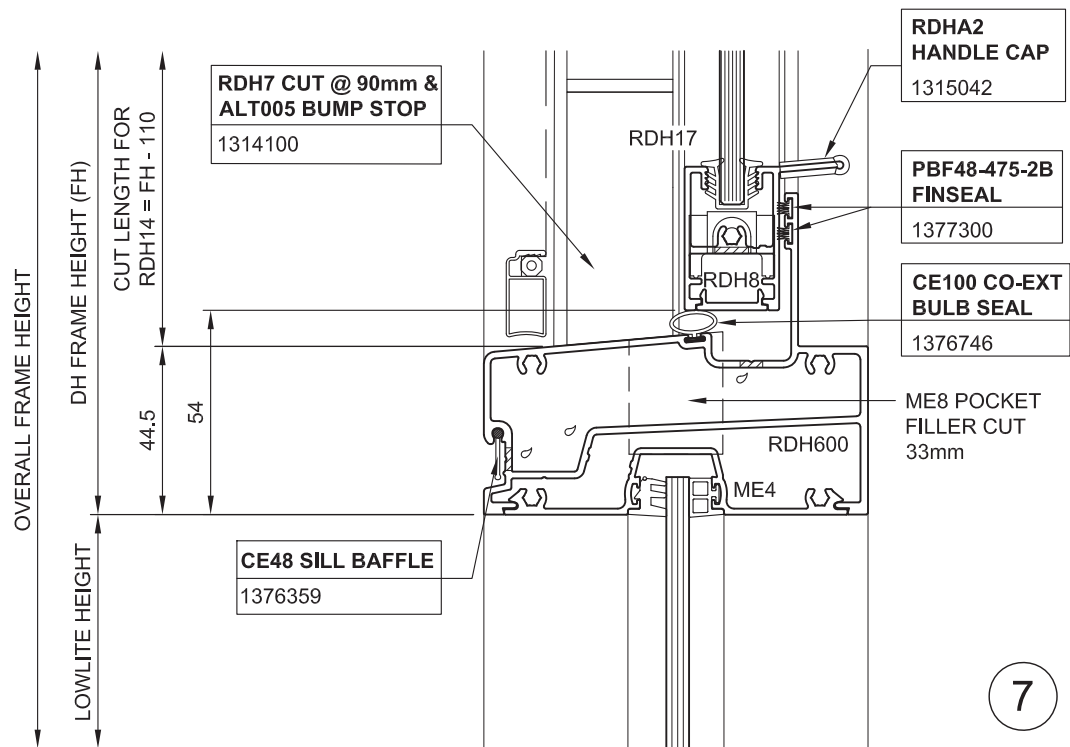
8. Typical Details

Vertical Detail - High Performance Sill - Double Glazed



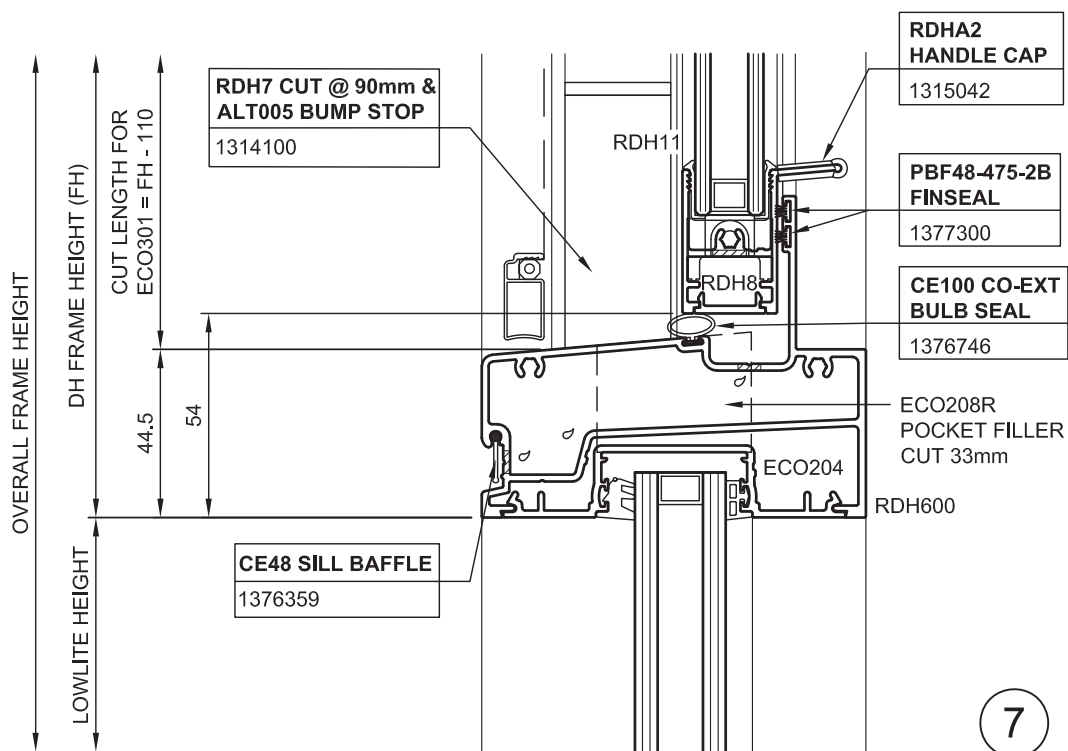
8. Typical Details

Vertical Detail - High Performance Sill - Single Glazed Sash with Low Lite

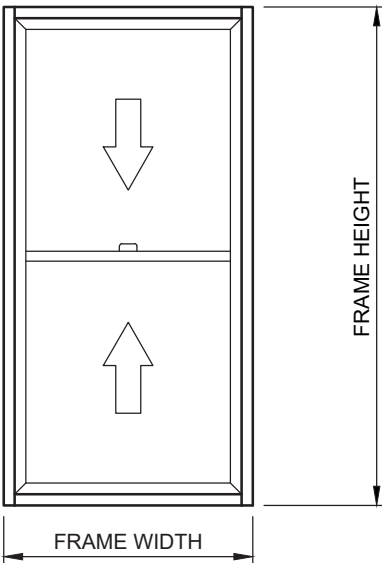


8. Typical Details

Vertical Detail - High Performance Sill - Double Glazed Sash with Low Lite



Standard - McArthur Evo Framing

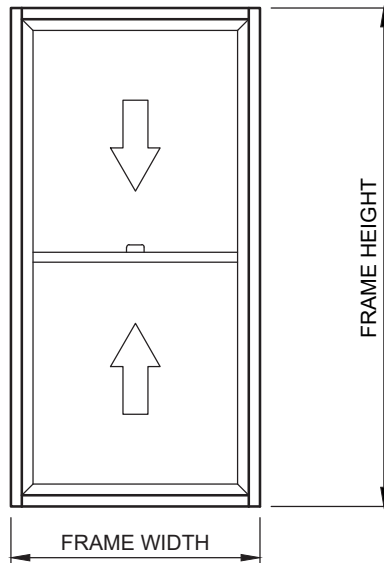


* MITRE CUT

PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	ME1	HEAD	FRAME WIDTH - 89	1
	RDH16	HEAD ADAPTOR	FRAME WIDTH - 89	1
	RDH15	SILL	FRAME WIDTH - 89	1
	ME1	JAMB	FRAME HEIGHT	2
	RDH14	JAMB ADAPTOR	FRAME HEIGHT - 103	2
	RDH4 / RDH10	SASH *	FRAME WIDTH - 138	2
	RDH17 / RDH11	SASH HANDLE *	FRAME WIDTH - 138	2
	RDH4 / RDH10	SASH *	FRAME HEIGHT / 2 - 30.5	4
	RDH6	THRESHOLD	FRAME WIDTH - 156	1
	RDH8	CAPPING	FRAME WIDTH - 190	2
	RDH8	CAPPING	FRAME WIDTH - 145	2
	RDH7	STOP INFILL	90mm	4
	RDH9	BALANCE INFILL	REFER TO PG 10.14	-
	ME8	POCKET FILLER	65mm	2
	ME8	POCKET FILLER	37mm	2
	L3455	SCREEN TRACK	FRAME HEIGHT - 89	2
	FS2	FLYSCREEN	FRAME HEIGHT - 95	2
	FS2	FLYSCREEN	FRAME WIDTH - 118	2
GLASS (SG)	HEIGHT		FRAME HEIGHT / 2 - 86.5	2
	WIDTH		FRAME WIDTH - 194	
GLASS (DG)	HEIGHT		FRAME HEIGHT / 2 - 82.5	2
	WIDTH		FRAME WIDTH - 190	

9. Cutting Formulas

Standard - ecoFRAMEplus Framing

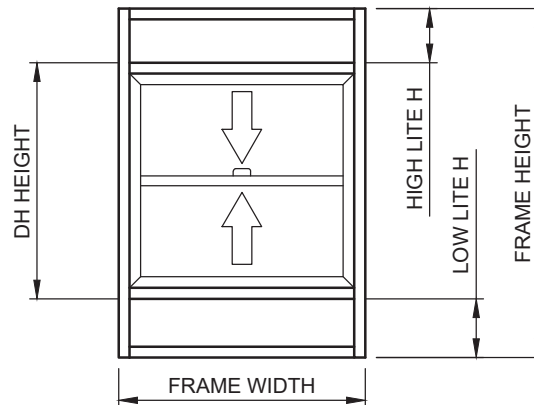


* MITRE CUT

PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	ECO201	HEAD	FRAME WIDTH - 100	1
	ECO300	HEAD ADAPTOR	FRAME WIDTH - 100	1
	RDH15	SILL	FRAME WIDTH - 100	1
	ECO201	JAMB	FRAME HEIGHT	2
	ECO301	JAMB ADAPTOR	FRAME HEIGHT - 108	2
	RDH4 / RDH10	SASH *	FRAME WIDTH - 149	2
	RDH17/RDH11	SASH HANDLE *	FRAME WIDTH - 149	2
	RDH4 / RDH10	SASH *	FRAME HEIGHT / 2 - 41	4
	RDH6	THRESHOLD	FRAME WIDTH - 167	1
	RDH8	CAPPING	FRAME WIDTH - 201	2
	RDH8	CAPPING	FRAME WIDTH - 156	2
	RDH7	STOP INFILL	90mm	4
	RDH9	BALANCE INFILL	REFER TO PG 10.14	-
	ECO208R	POCKET FILLER	71mm	2
	ECO208R	POCKET FILLER	37mm	2
	L3455	SCREEN TRACK	FRAME HEIGHT - 94	2
	FS2	FLYSCREEN	FRAME HEIGHT - 100	2
	FS2	FLYSCREEN	FRAME WIDTH - 129	2
GLASS (SG)	HEIGHT		FRAME HEIGHT / 2 - 92.5	2
	WIDTH		FRAME WIDTH - 205	
GLASS (DG)	HEIGHT		FRAME HEIGHT / 2 - 85.5	2
	WIDTH		FRAME WIDTH - 201	

9. Cutting Formulas

Double Hung with High Lite & Low Lite - McArthur Evo Framing

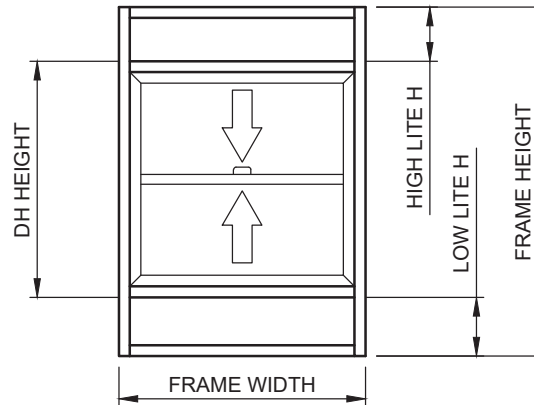


* MITRE CUT

PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	ME1	HEAD	FRAME WIDTH - 89	2
	ME4	GLAZING ADAPTOR	FRAME WIDTH - 89	2
	RDH16	HEAD ADAPTOR	FRAME WIDTH - 89	1
	RDH15	DH SILL	FRAME WIDTH - 89	1
	ME2	SILL	FRAME WIDTH - 89	1
	ME3	BEAD SILL	FRAME WIDTH - 89	1
	ME1	JAMB	FRAME HEIGHT	2
	RDH14	JAMB ADAPTOR	DH HEIGHT - 58.5	2
	RDH4 / RDH10	SASH *	FRAME WIDTH - 138	2
	RDH17 / RDH11	SASH HANDLE *	FRAME WIDTH - 138	2
	RDH4 / RDH10	SASH *	DH HEIGHT / 2 - 8.5	4
	RDH6	THRESHOLD	FRAME WIDTH - 156	1
	RDH8	CAPPING	FRAME WIDTH - 190	2
	RDH8	CAPPING	FRAME WIDTH - 145	2
	RDH7	STOP INFILL	90mm	4
	RDH9	BALANCE INFILL	REFER TO PG 10.14	
	ME8	POCKET FILLER	65mm	2
	ME8	POCKET FILLER	21mm	2
	L3455	SCREEN TRACK	DH HEIGHT - 89	2
	FS2	FLYSCREEN	DH HEIGHT - 95	2
	FS2	FLYSCREEN	FRAME WIDTH - 118	2
GLASS (SG DOUBLE HUNG)	HEIGHT		DH HEIGHT / 2 - 64.5	2
	WIDTH		FRAME WIDTH - 194	
GLASS (DG DOUBLE HUNG)	HEIGHT		DH HEIGHT / 2 - 60.5	2
	WIDTH		FRAME WIDTH - 190	
GLASS (SG HIGH LITE)	HEIGHT		HIGH LITE H - 24.5	1
	WIDTH		FRAME WIDTH - 24.5	
GLASS (SG LOW LITE)	HEIGHT		LOW LITE H - 69	1
	WIDTH		FRAME WIDTH - 24.5	

9. Cutting Formulas

Double Hung with High Lite & Low Lite - ecoFRAMEplus Framing

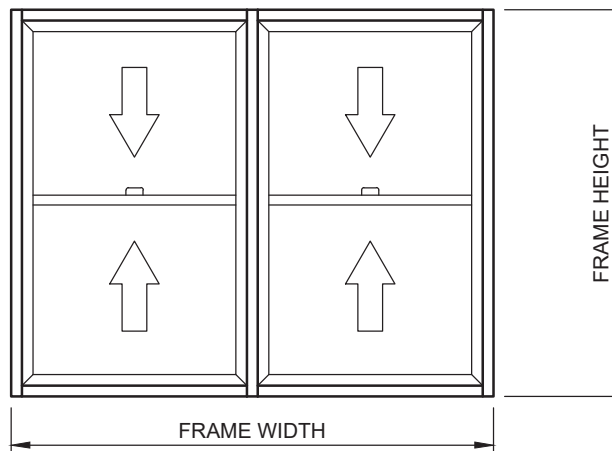


* MITRE CUT

PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	ECO201	HEAD	FRAME WIDTH - 100	2
	ECO204	GLAZING ADAPTOR	FRAME WIDTH - 100	2
	ECO300	HEAD ADAPTOR	FRAME WIDTH - 100	1
	RDH15	DH SILL	FRAME WIDTH - 100	1
	ECO202	SILL	FRAME WIDTH - 100	1
	ECO203	BEAD SILL	FRAME WIDTH - 100	1
	ECO201	JAMB	FRAME HEIGHT	2
	ECO301	JAMB ADAPTOR	DH HEIGHT - 63.5	2
	RDH4 / RDH10	SASH *	FRAME WIDTH - 149	2
	RDH17 / RDH11	SASH HANDLE *	FRAME WIDTH - 149	2
	RDH4 / RDH10	SASH *	DH HEIGHT / 2 - 19.5	4
	RDH6	THRESHOLD	FRAME WIDTH - 167	1
	RDH8	CAPPING	FRAME WIDTH - 201	2
	RDH8	CAPPING	FRAME WIDTH - 156	2
	RDH7	STOP INFILL	90mm	4
	RDH9	BALANCE INFILL	REFER TO PG 10.14	
	ECO208R	POCKET FILLER	71mm	2
	ECO208R	POCKET FILLER	37mm	2
	L3455	SCREEN TRACK	DH HEIGHT - 89	2
	FS2	FLYSCREEN	DH HEIGHT - 95	2
	FS2	FLYSCREEN	FRAME WIDTH - 107	2
GLASS (SG DOUBLE HUNG)	HEIGHT		DH HEIGHT / 2 - 70	2
	WIDTH		FRAME WIDTH - 199.5	
GLASS (DG DOUBLE HUNG)	HEIGHT		DH HEIGHT / 2 - 66	2
	WIDTH		FRAME WIDTH - 195.5	
GLASS (DG HIGH LITE)	HEIGHT		HIGH LITE H - 26	1
	WIDTH		FRAME WIDTH - 26	
GLASS (DG LOW LITE)	HEIGHT		LOW LITE H - 70.5	1
	WIDTH		FRAME WIDTH - 26	

9. Cutting Formulas

Double Hung Side by Side - McArthur Evo Framing

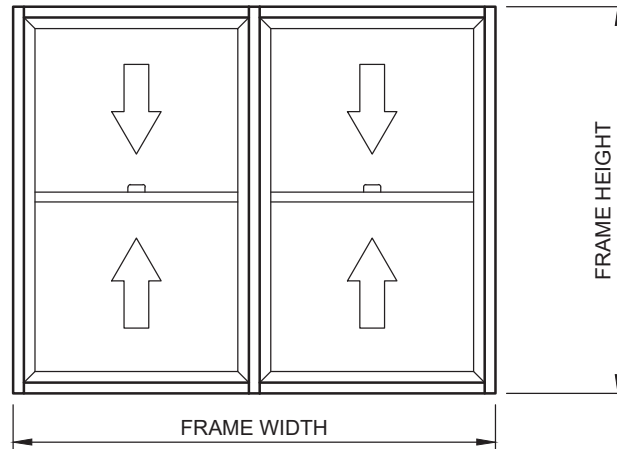


* MITRE CUT

PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	ME1	HEAD	FRAME WIDTH/2 - 68	2
	RDH16	HEAD ADAPTOR	FRAME WIDTH/2 - 68	2
	RDH15	SILL	FRAME WIDTH/2 - 68	2
	ME1	JAMB	FRAME HEIGHT	2
	RDH14	JAMB ADAPTOR	FRAME HEIGHT - 103	4
	ME10	MULLION	FRAME HEIGHT	1
	ME11	MULLION	FRAME HEIGHT	1
	RDH4 / RDH10	SASH *	FRAME WIDTH/2 - 116	4
	RDH17/RDH11	SASH HANDLE *	FRAME WIDTH/2 - 117	4
	RDH4 / RDH10	SASH *	FRAME HEIGHT/ 2 - 30.5	8
	RDH6	THRESHOLD	FRAME WIDTH/2 - 134	2
	RDH8	CAPPING	FRAME WIDTH/2 - 171	4
	RDH8	CAPPING	FRAME WIDTH/2 - 168	4
	RDH7	STOP INFILL	90mm	8
	ME8	POCKET FILLER	65mm	4
	ME8	POCKET FILLER	37mm	4
	RDH9	BALANCE INFILL	REFER TO PG 10.14	
	L3455	SCREEN TRACK	FRAME HEIGHT - 89	2
	FS2	FLYSCREEN	FRAME HEIGHT - 95	4
	FS2	FLYSCREEN	FRAME WIDTH/2 - 85.5	4
GLASS (SG)	HEIGHT		FRAME HEIGHT / 2 - 86.5	4
	WIDTH		FRAME WIDTH/2 - 172	
GLASS (DG)	HEIGHT		FRAME HEIGHT / 2 - 82.5	4
	WIDTH		FRAME WIDTH/2 - 168	

9. Cutting Formulas

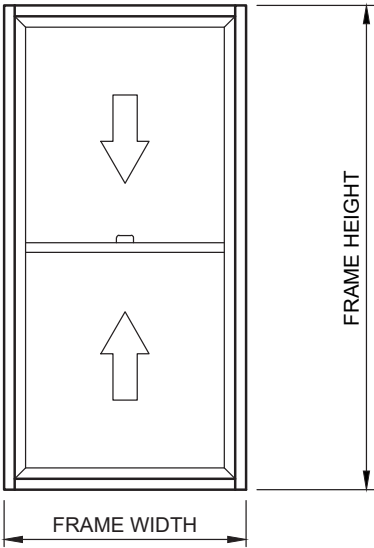
Double Hung Side by Side - Double Glazed



* MITRE CUT

PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	ECO201	HEAD	FRAME WIDTH/2 - 79	2
	ECO300	HEAD ADAPTOR	FRAME WIDTH/2 - 79	2
	RDH15	SILL	FRAME WIDTH/2 - 79	2
	ECO201	JAMB	FRAME HEIGHT	2
	ECO301	JAMB ADAPTOR	FRAME HEIGHT - 108	4
	ECO212	MULLION	FRAME HEIGHT	1
	ECO213	MULLION	FRAME HEIGHT	1
	RDH4 / RDH10	SASH *	FRAME WIDTH/2 - 126	4
	RDH17/RDH11	SASH HANDLE *	FRAME WIDTH/2 - 127	4
	RDH4 / RDH10	SASH *	FRAME HEIGHT/ 2 - 41	8
	RDH6	THRESHOLD	FRAME WIDTH/2 - 145	2
	RDH8	CAPPING	FRAME WIDTH/2 - 182	4
	RDH8	CAPPING	FRAME WIDTH/2 - 179	4
	RDH7	STOP INFILL	90mm	8
	ECO208R	POCKET FILLER	71mm	4
	ECO208R	POCKET FILLER	37mm	4
	RDH9	BALANCE INFILL	REFER TO PG 10.14	
	L3455	SCREEN TRACK	FRAME HEIGHT - 94	2
	FS2	FLYSCREEN	FRAME HEIGHT - 100	4
	FS2	FLYSCREEN	FRAME WIDTH/2 - 93	4
GLASS (SG)	HEIGHT		FRAME HEIGHT / 2 - 83.5	4
	WIDTH		FRAME WIDTH/2 - 177	
GLASS (DG)	HEIGHT		FRAME HEIGHT / 2 - 87.5	4
	WIDTH		FRAME WIDTH/2 - 173	

High Performance Sill - McArthur Evo Framing

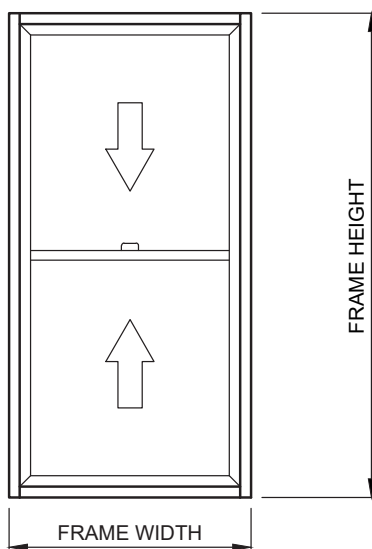


* MITRE CUT
** 5 DEG CUT AT SILL

PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	ME1	HEAD	FRAME WIDTH - 89	1
	RDH16	HEAD ADAPTOR	FRAME WIDTH - 89	1
	RDH600	HIGH PERFORMANCE SILL	FRAME WIDTH - 89	1
	ME1	JAMB	FRAME HEIGHT	2
	RDH14	JAMB ADAPTOR **	FRAME HEIGHT - 110	2
	RDH4 / RDH10	SASH *	FRAME WIDTH - 138	2
	RDH17 / RDH11	SASH HANDLE *	FRAME WIDTH - 138	2
	RDH4 / RDH10	SASH *	FRAME HEIGHT / 2 - 35	4
	RDH8	CAPPING	FRAME WIDTH - 190	2
	RDH8	CAPPING	FRAME WIDTH - 145	2
	RDH7	STOP INFILL **	90mm	4
	RDH9	BALANCE INFILL	REFER TO PG 10.15	-
	ME8	POCKET FILLER	65mm	2
	ME8	POCKET FILLER **	48mm	2
	L3455	SCREEN TRACK **	FRAME HEIGHT - 89	2
	FS2	FLYSCREEN *	FRAME HEIGHT - 95	2
	FS2	FLYSCREEN *	FRAME WIDTH - 118	2
GLASS (SG)	HEIGHT		FRAME HEIGHT / 2 - 91	2
	WIDTH		FRAME WIDTH - 194	
GLASS (DG)	HEIGHT		FRAME HEIGHT / 2 - 87	2
	WIDTH		FRAME WIDTH - 190	

9. Cutting Formulas

High Performance Sill - ecoFRAMEplus 101.6mm Framing

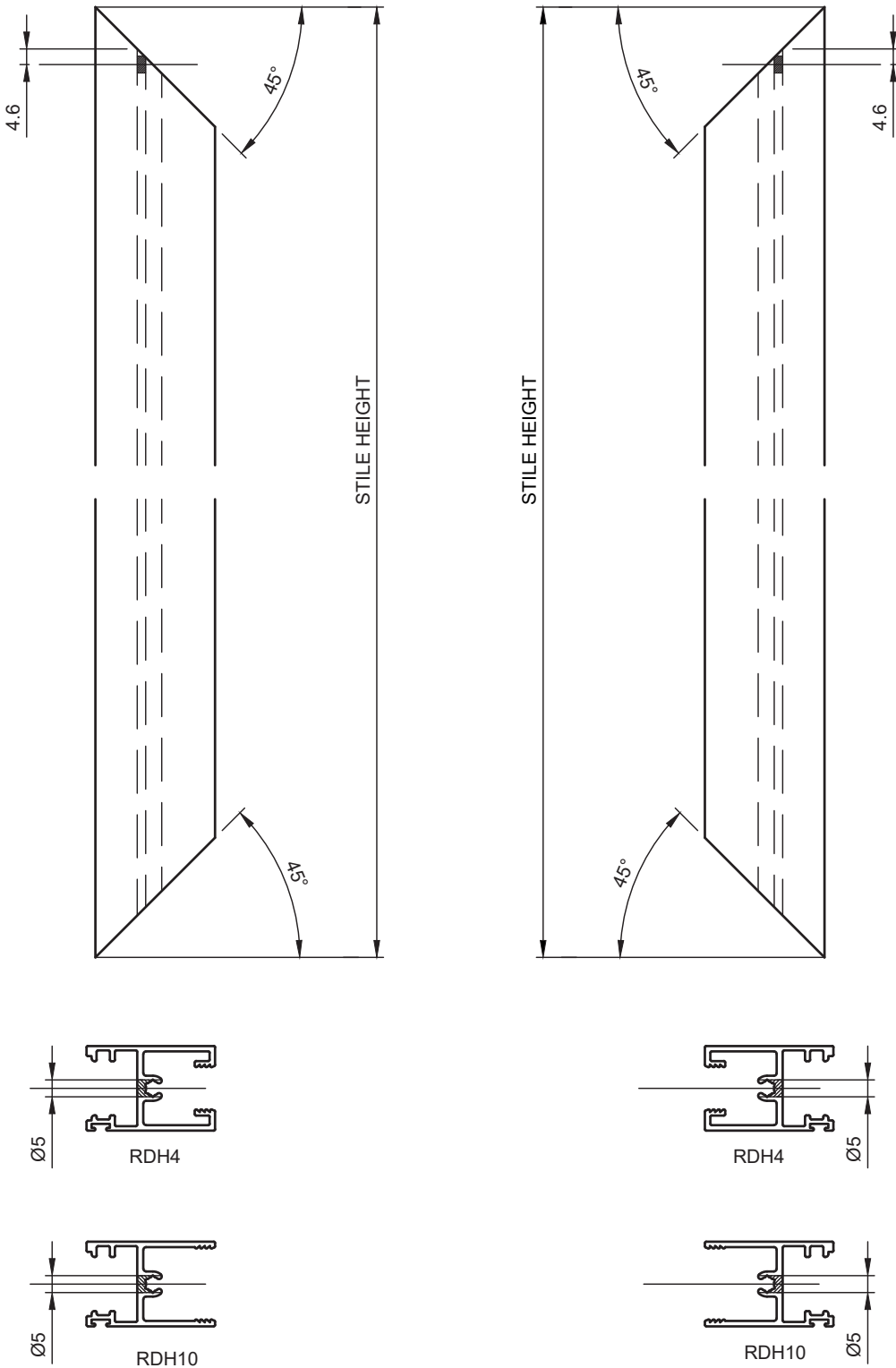


* MITRE CUT

** 5 DEG CUT AT SILL

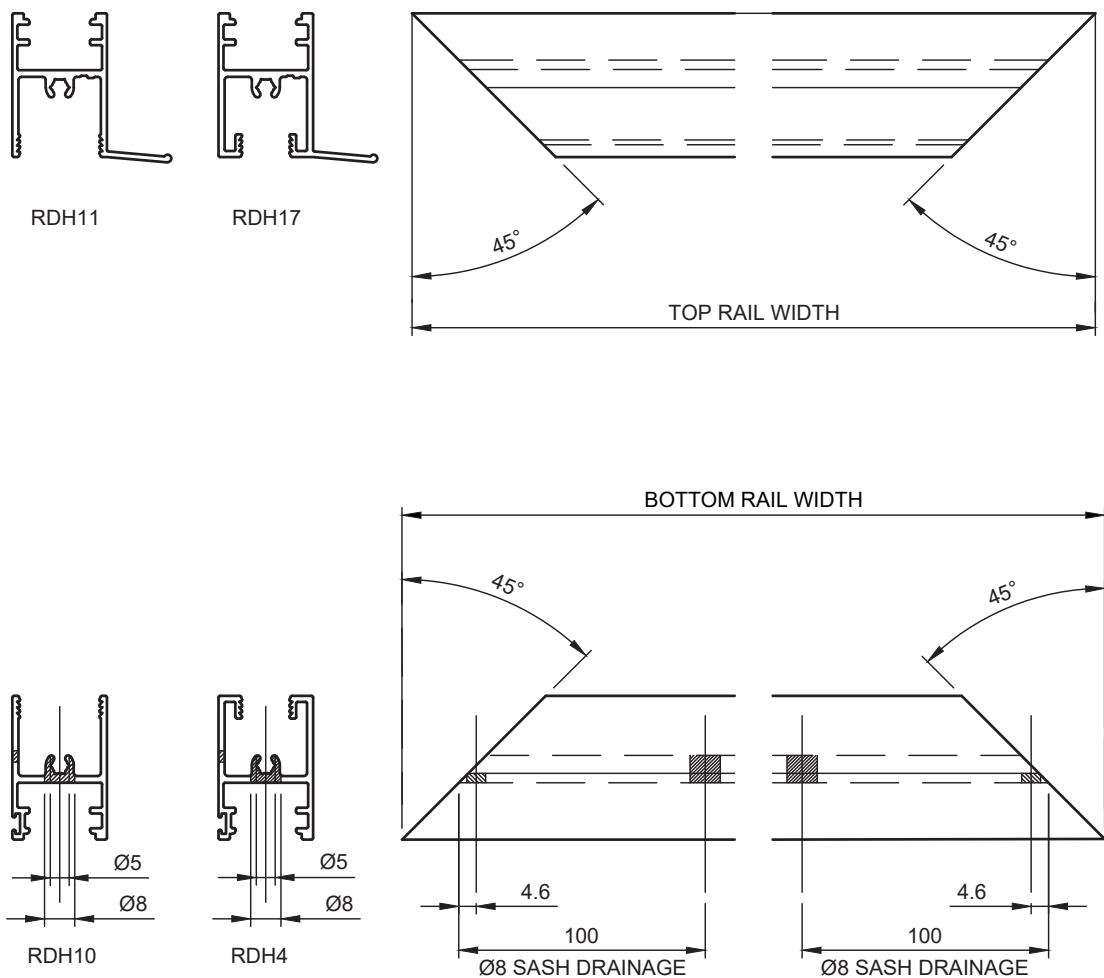
PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	ECO201	HEAD	FRAME WIDTH - 100	1
	ECO300	HEAD ADAPTOR	FRAME WIDTH - 100	1
	RDH600	HIGH PERFORMANCE SILL	FRAME WIDTH - 100	1
	ECO201	JAMB	FRAME HEIGHT	2
	ECO301	JAMB ADAPTOR **	FRAME HEIGHT - 115.5	2
	RDH4 / RDH10	SASH *	FRAME WIDTH - 149	2
	RDH17/RDH11	SASH HANDLE *	FRAME WIDTH - 149	2
	RDH4 / RDH10	SASH *	FRAME HEIGHT / 2 - 38	4
	RDH8	CAPPING	FRAME WIDTH - 201	2
	RDH8	CAPPING	FRAME WIDTH - 156	2
	RDH7	STOP INFILL **	90mm	4
	RDH9	BALANCE INFILL	REFER TO PG 10.15	-
	ECO208R	POCKET FILLER	71mm	2
	ECO208R	POCKET FILLER **	49mm	2
	L3455	SCREEN TRACK **	FRAME HEIGHT - 94	2
	FS2	FLYSCREEN *	FRAME HEIGHT - 100.5	2
	FS2	FLYSCREEN *	FRAME WIDTH - 118	2
GLASS (SG)	HEIGHT		FRAME HEIGHT / 2 - 94	2
	WIDTH		FRAME WIDTH - 205	
GLASS (DG)	HEIGHT		FRAME HEIGHT / 2 - 90	2
	WIDTH		FRAME WIDTH - 201	

Sash Stile Preparation

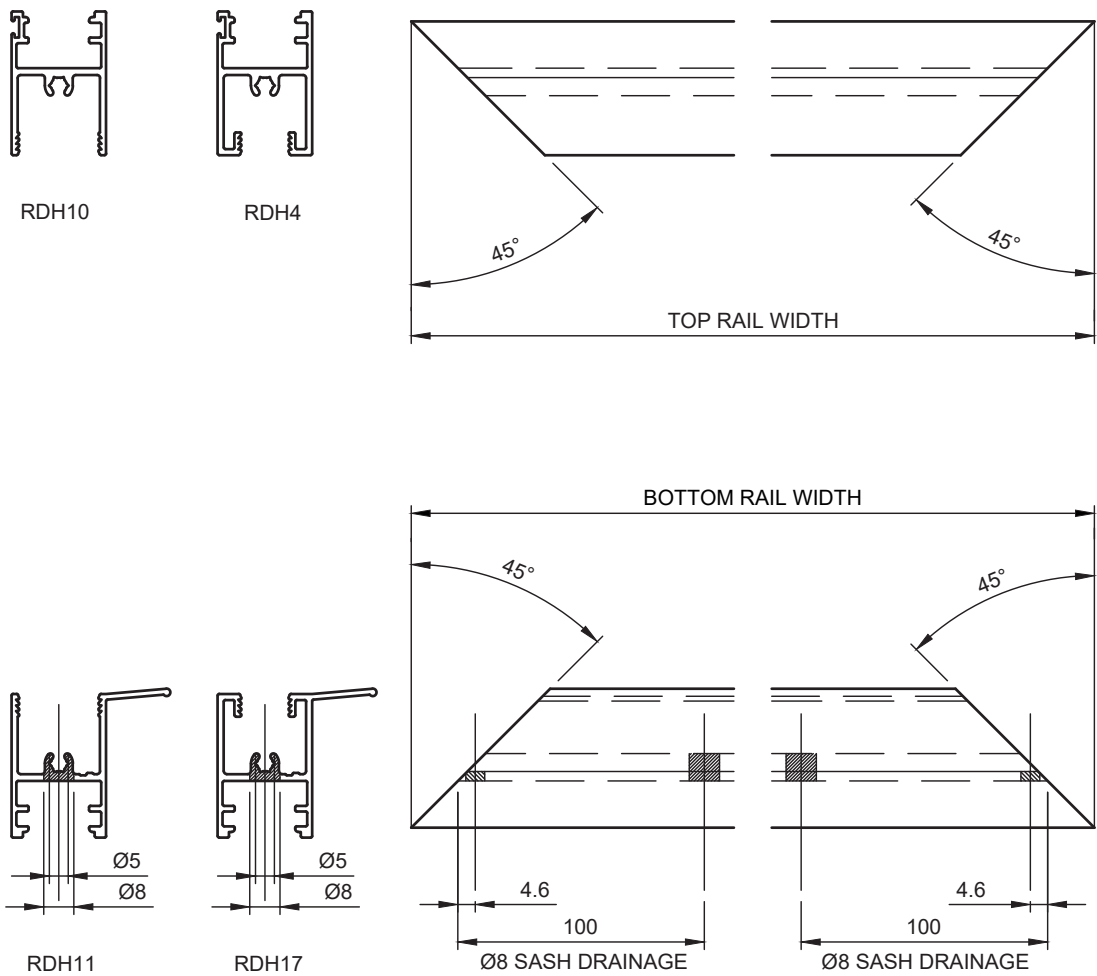


10. Manufacturing Details

Rail Preparation (Upper Sash)

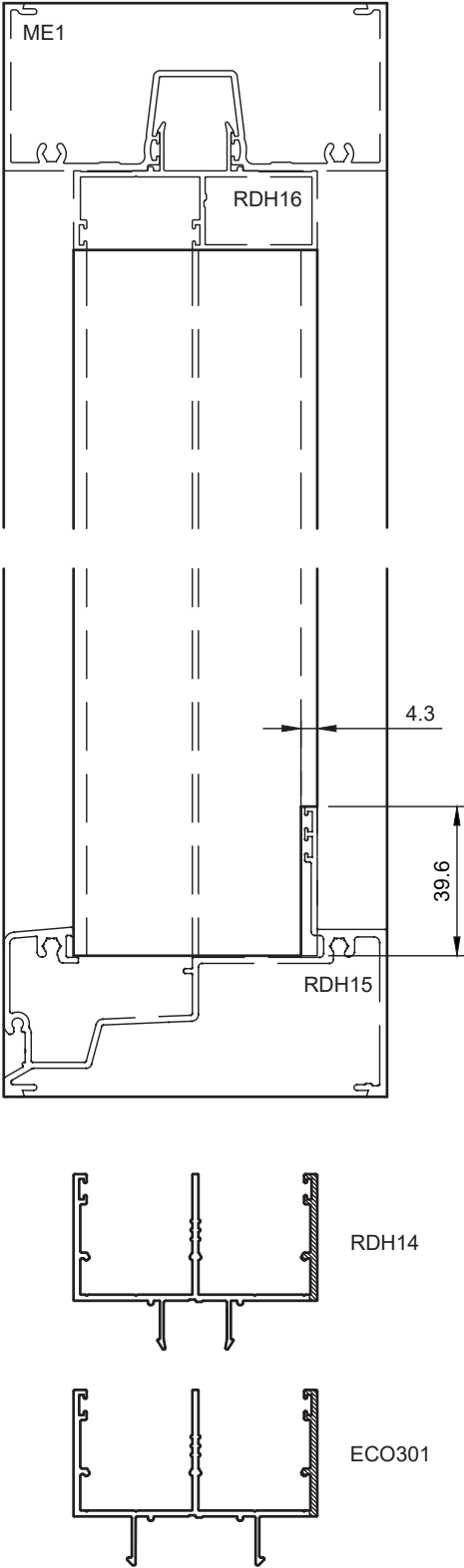


Rail Preparation (Bottom Sash)

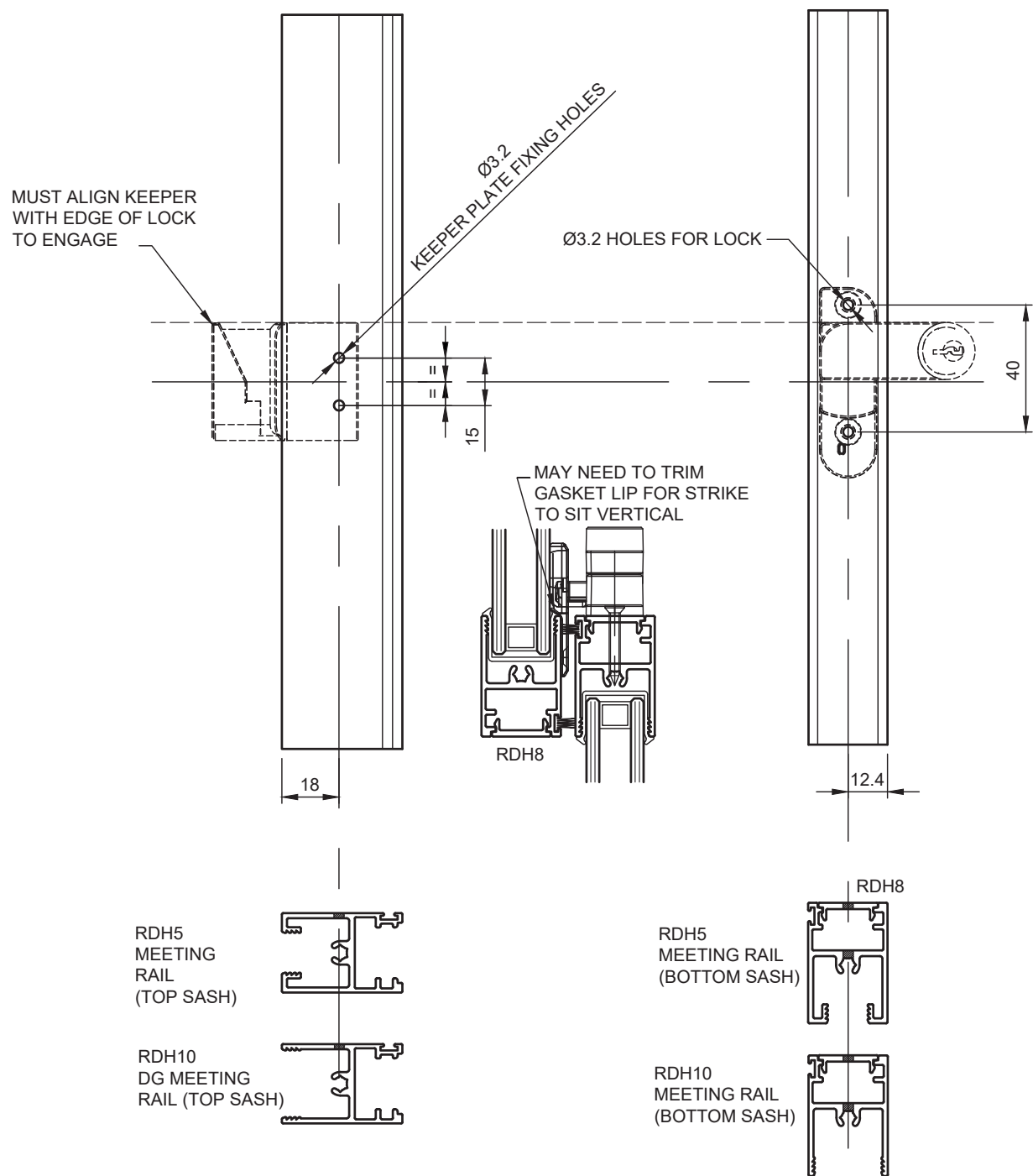


10. Manufacturing Details

Jamb Adaptor Preparation

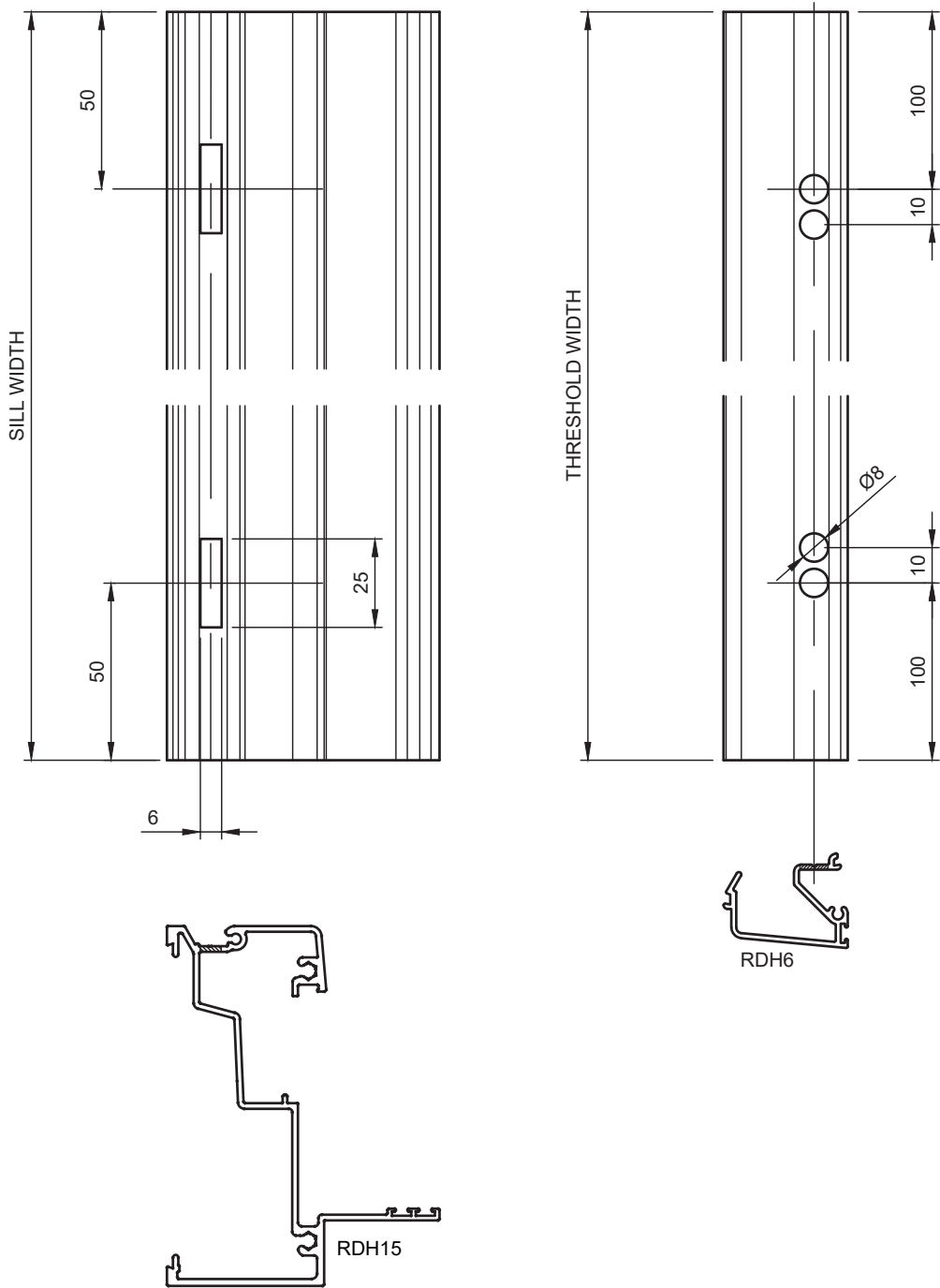


Rail Preparation for Alspec Lock



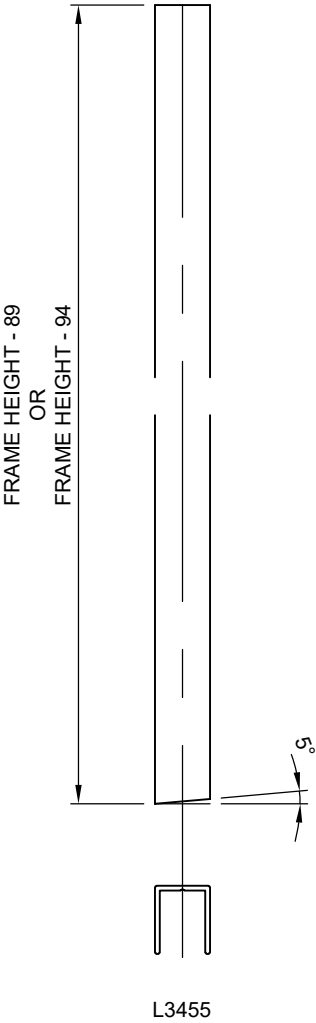
10. Manufacturing Details

Sill Drainage Preparation



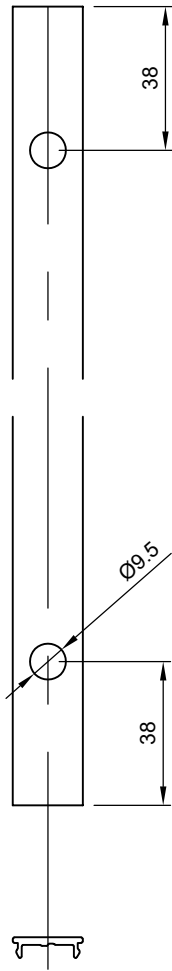
NOTE: MANUAL MACHINING REQUIRED

L3455 Preparation

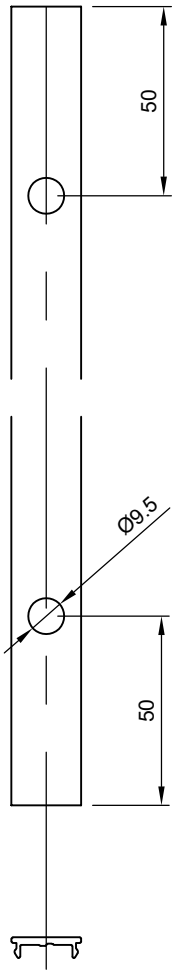


10. Manufacturing Details

RDH8 Capping Preparation

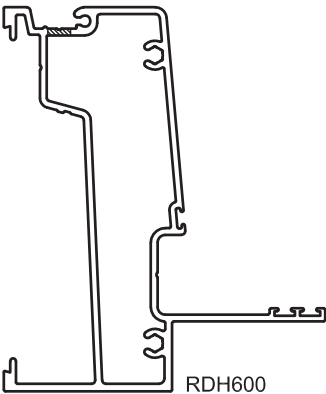
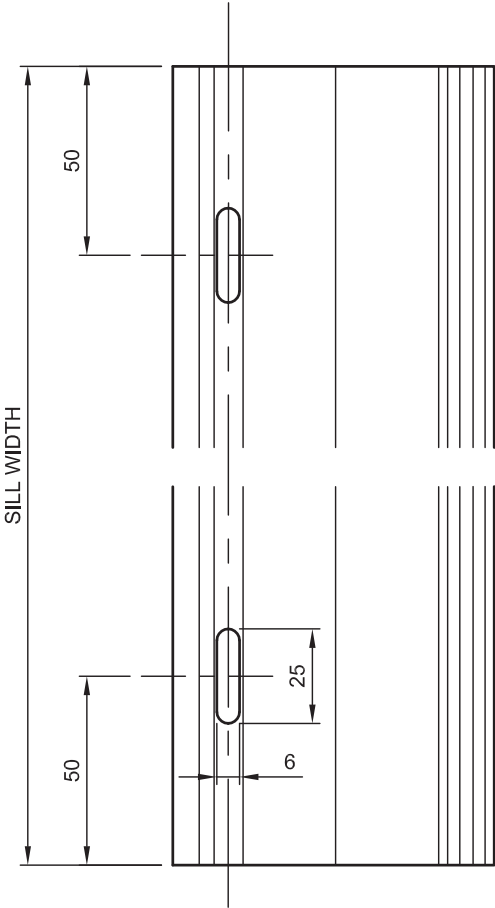


RDH8
8mm GROMMET
PREPARATION
LOWER SASH (RDH5)



RDH8
GROMMET PREPARATION
UPPER SASH (RDH5)

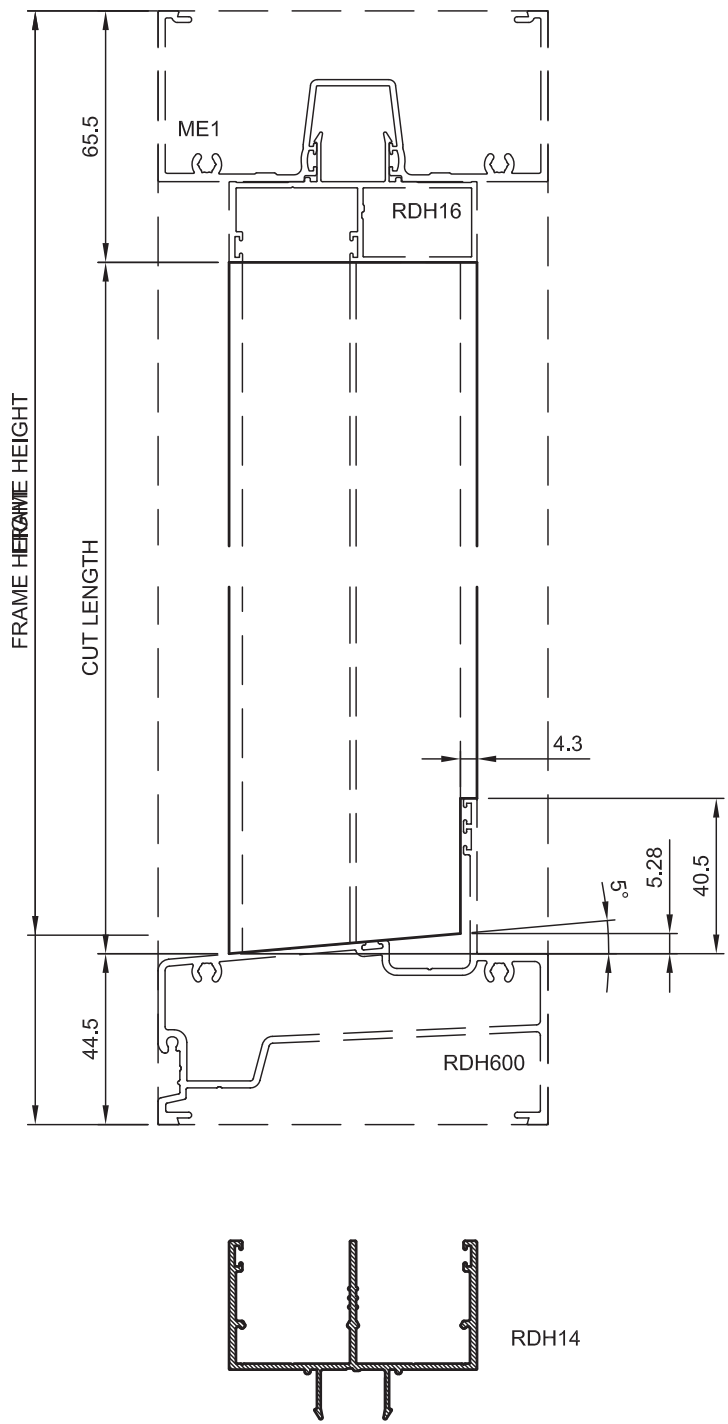
RDH600 Sill Drainage Preparation



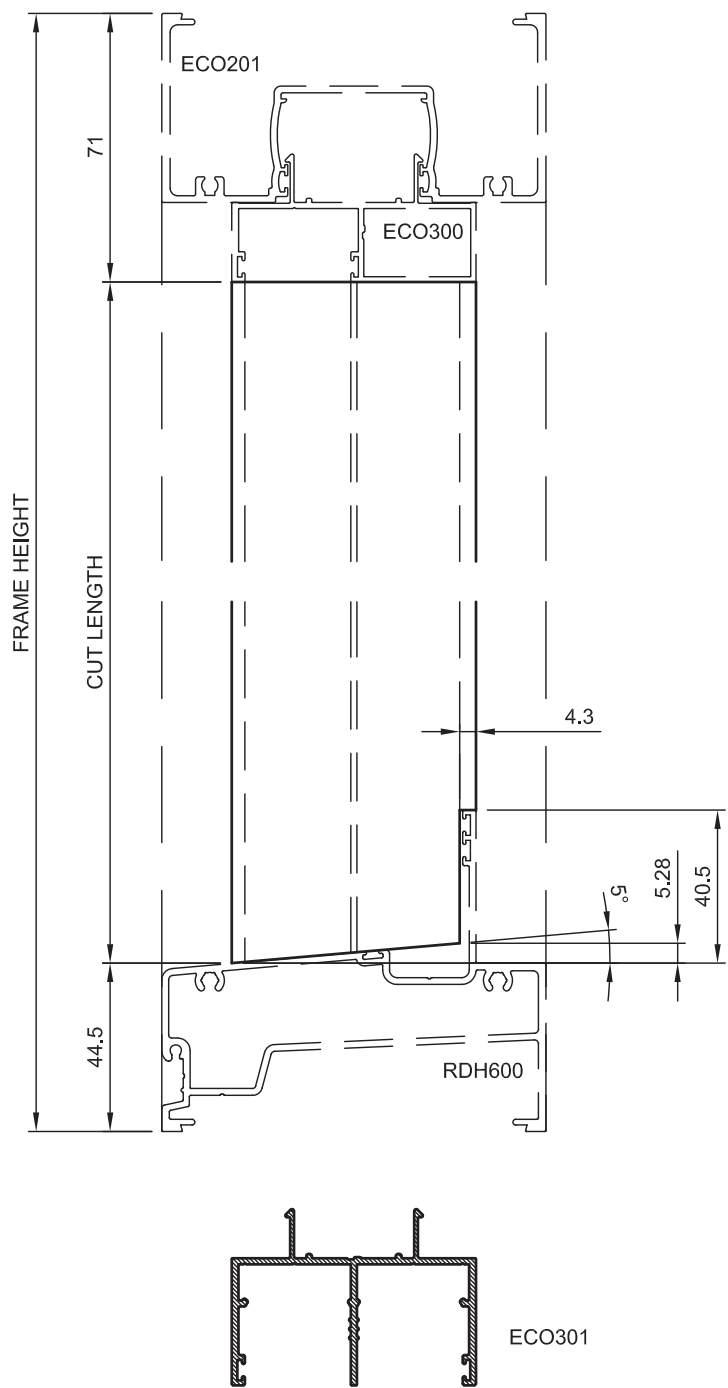
NOTE: MANUAL MACHINING REQUIRED

10. Manufacturing Details

Single Glazed Jamb Adaptor RDH14 Preparation - For RDH600 Sill

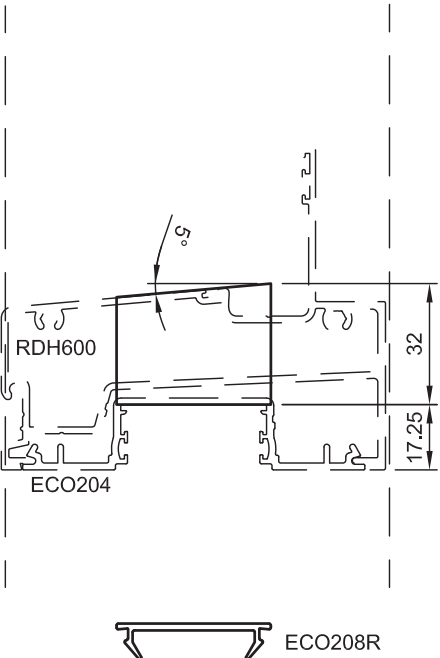
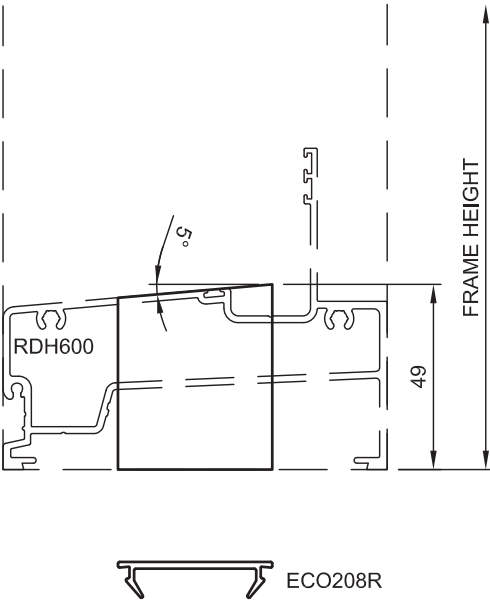
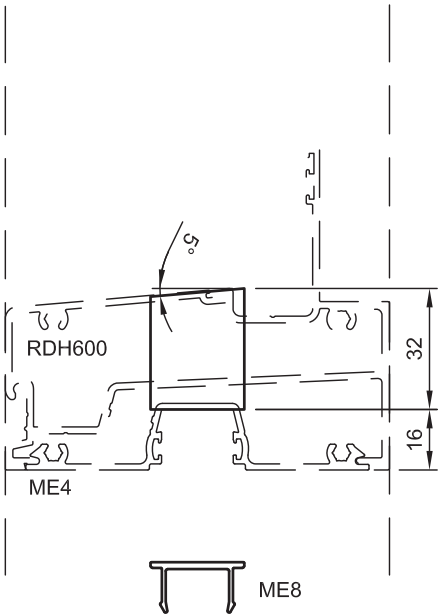
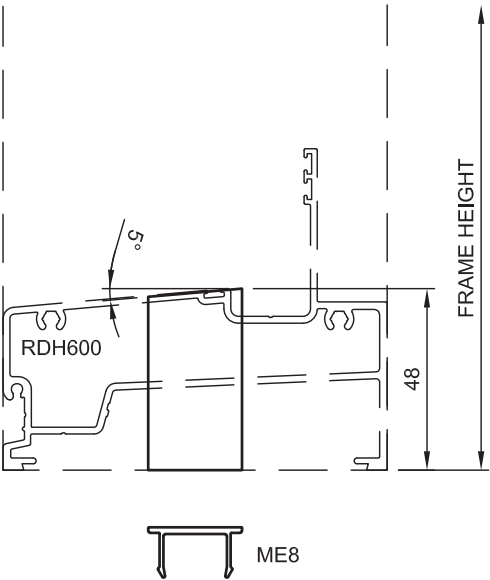


Double Glazed Jamb Adaptor ECO308R Preparation - For RDH600 Sill

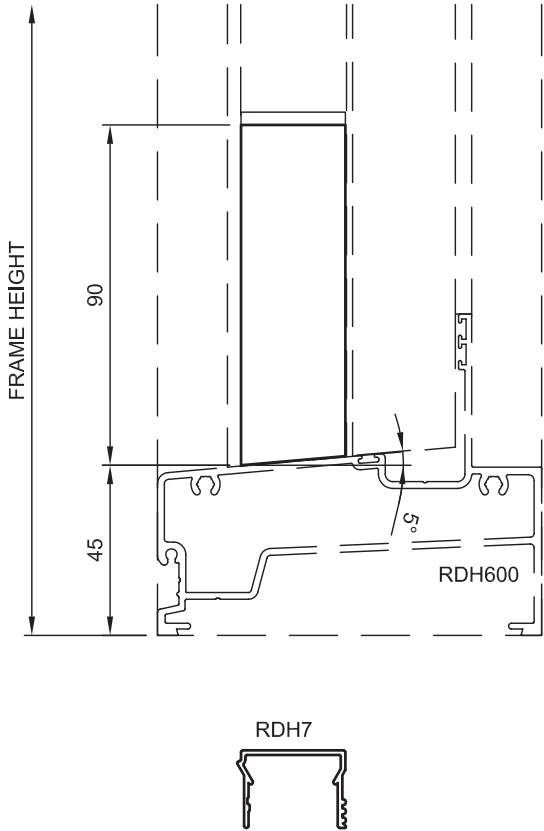


10. Manufacturing Details

ME8 & ECO208R Pocket Filler Preparation - For RDH600 Sill



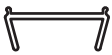
RHD7 Stop Infill Preparation - For RDH600 Sill



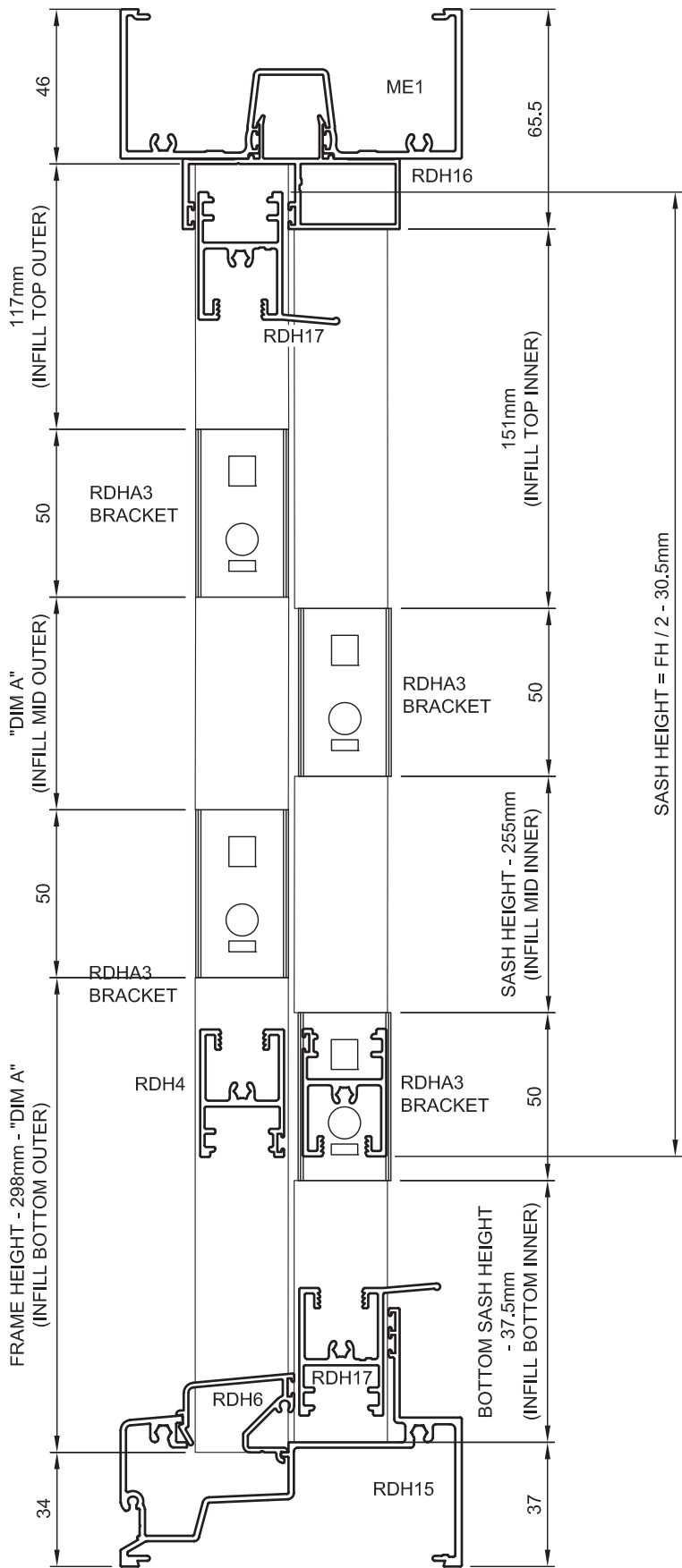
10. Manufacturing Details

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

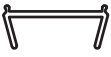


RDH9

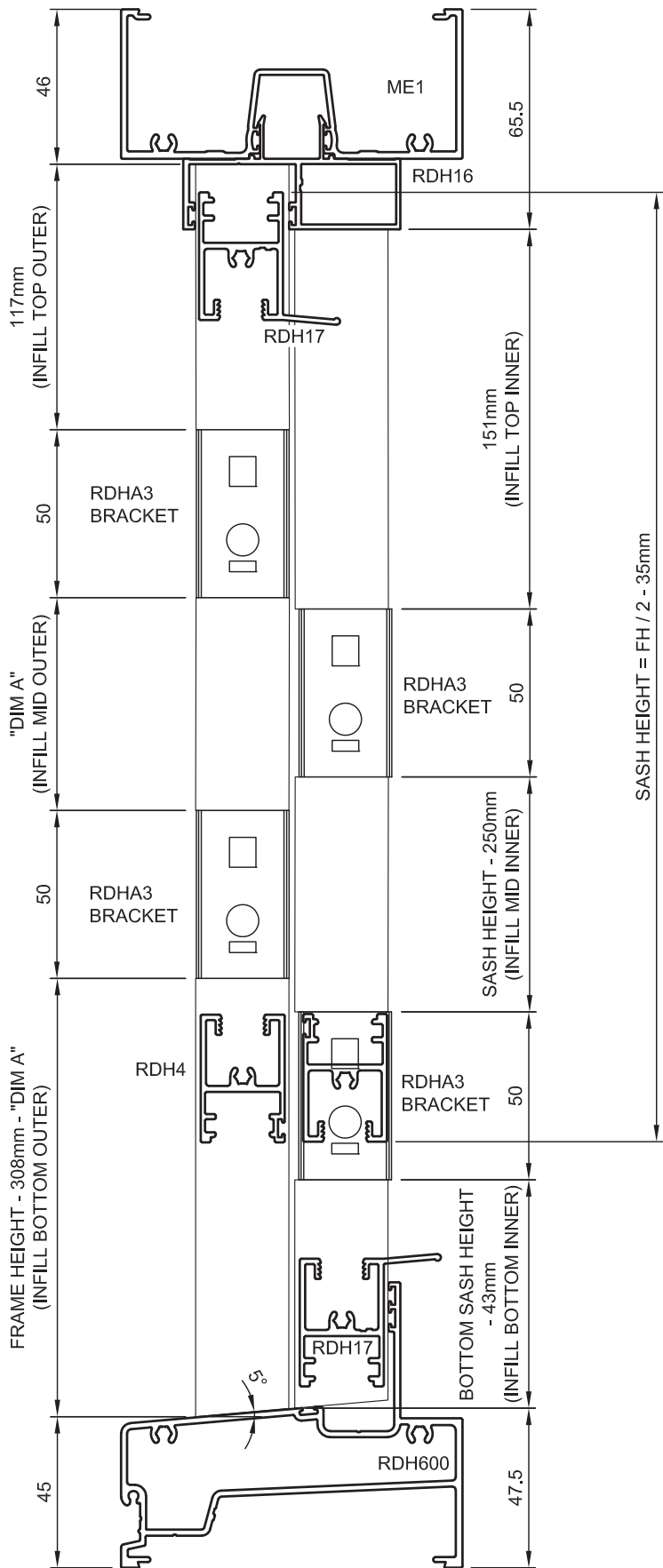


RDH9 Balance Infill Cut Formula - For RDH600 High Performance Sill

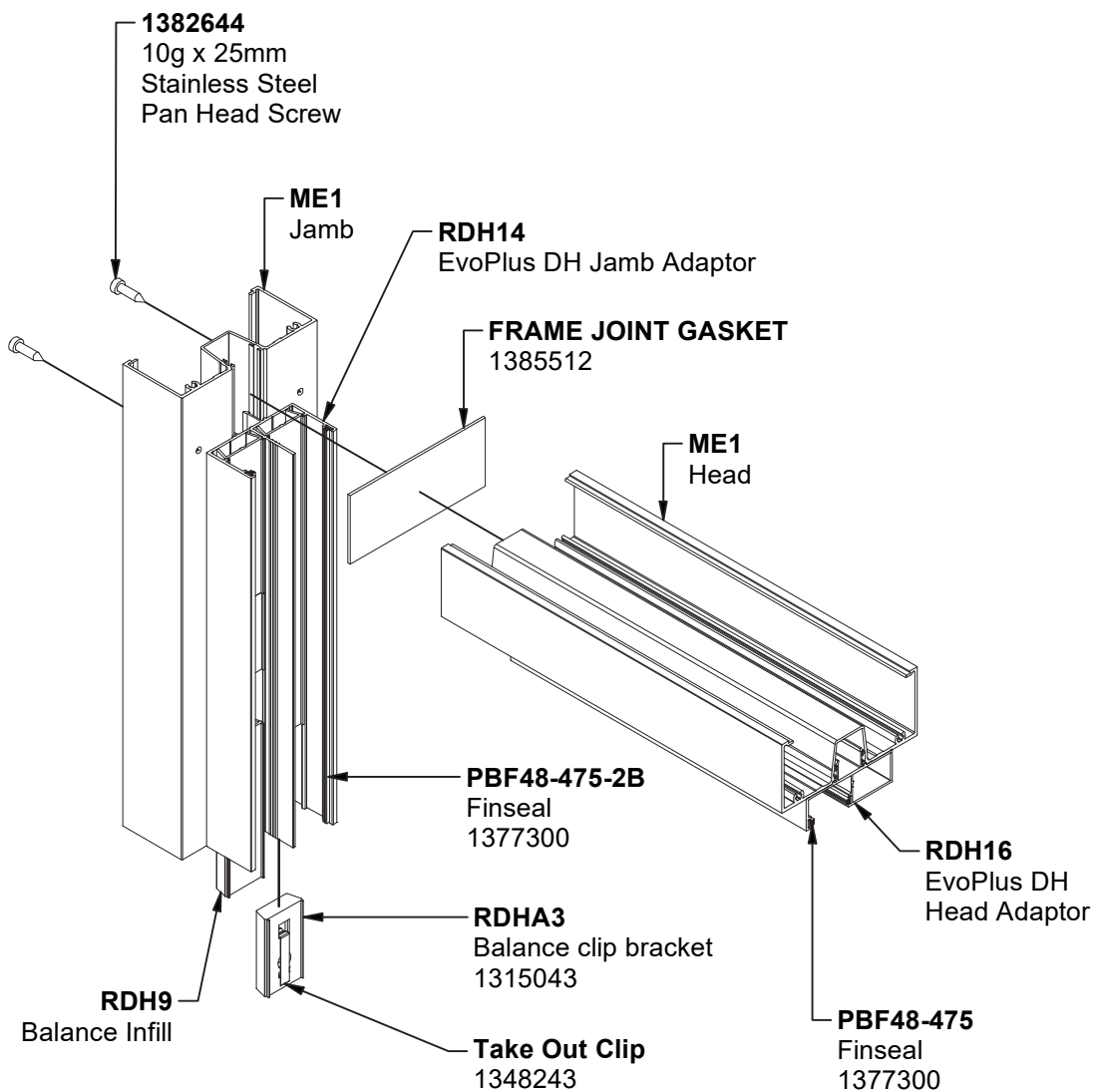
Top Sash Height	Dim A
435 - 486	180
487 - 537	231
538 - 588	282
589 - 639	333
640 - 690	384
691 - 741	435
742 - 792	486
793 - 843	537
844 - 894	588
895 - 945	639
946 - 996	690
997 - 1047	741
1048 - 1098	792
1099 - 1149	843
1150 - 1200	894



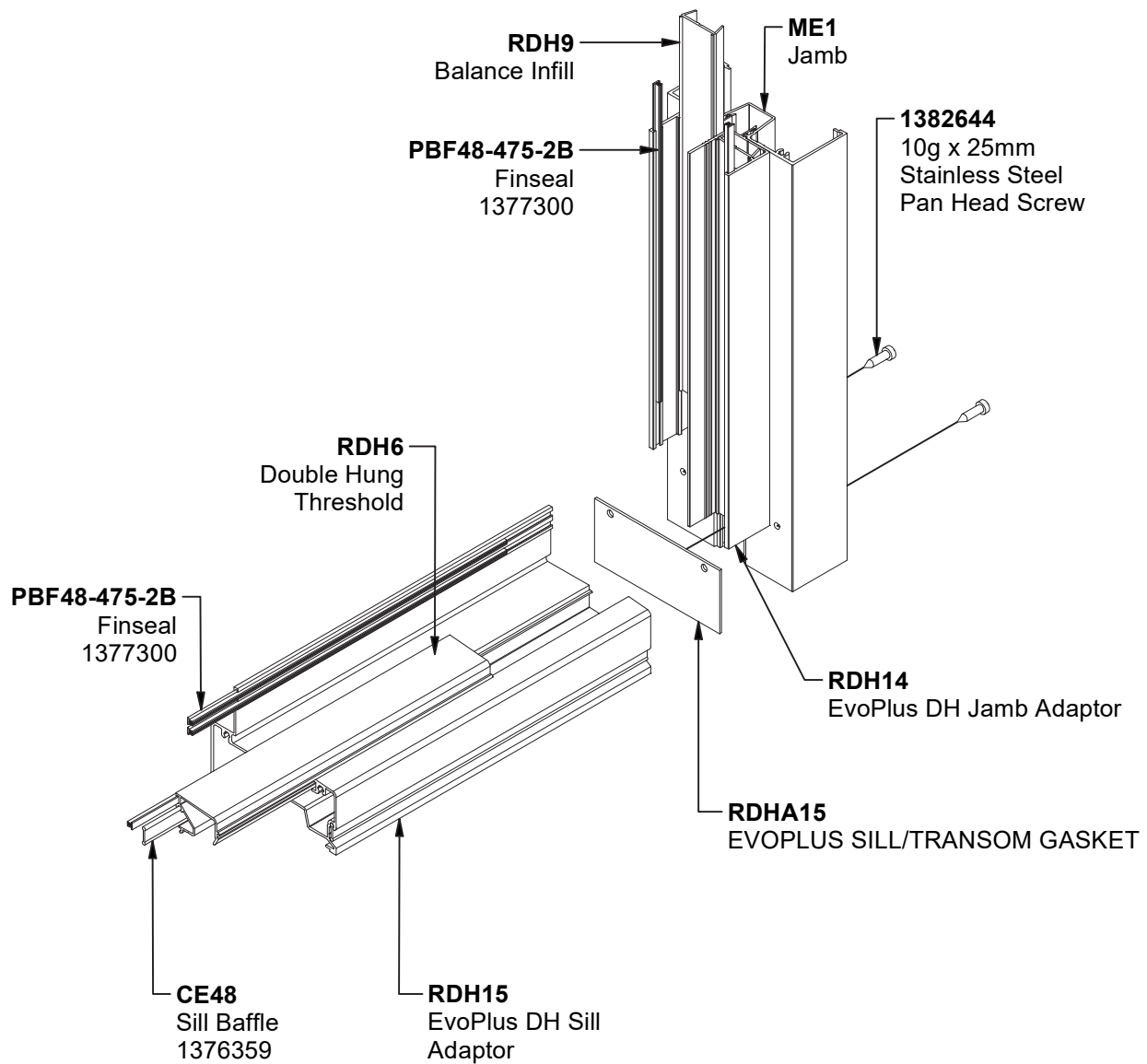
RDH9



Head Assembly

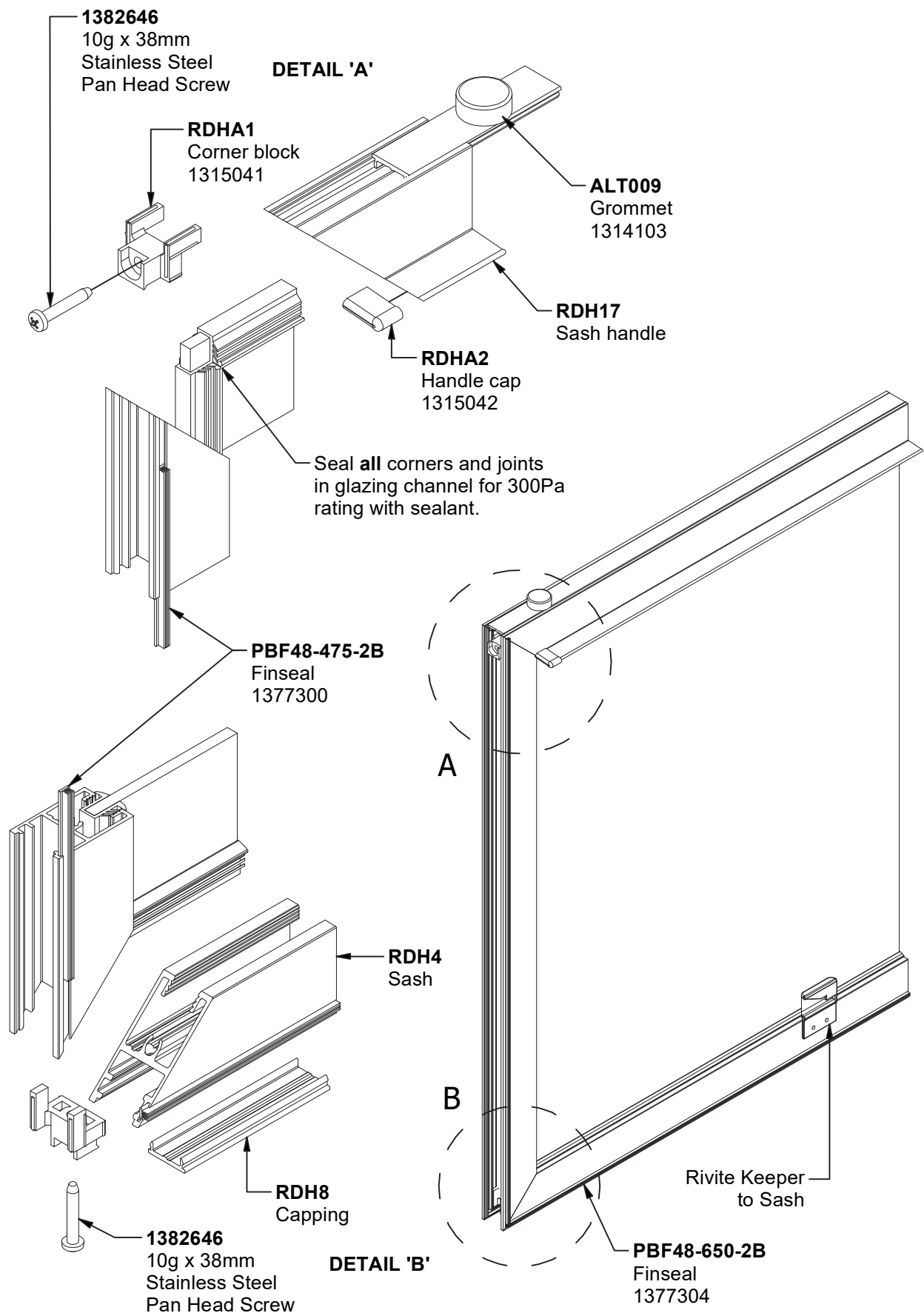


Sill Assembly

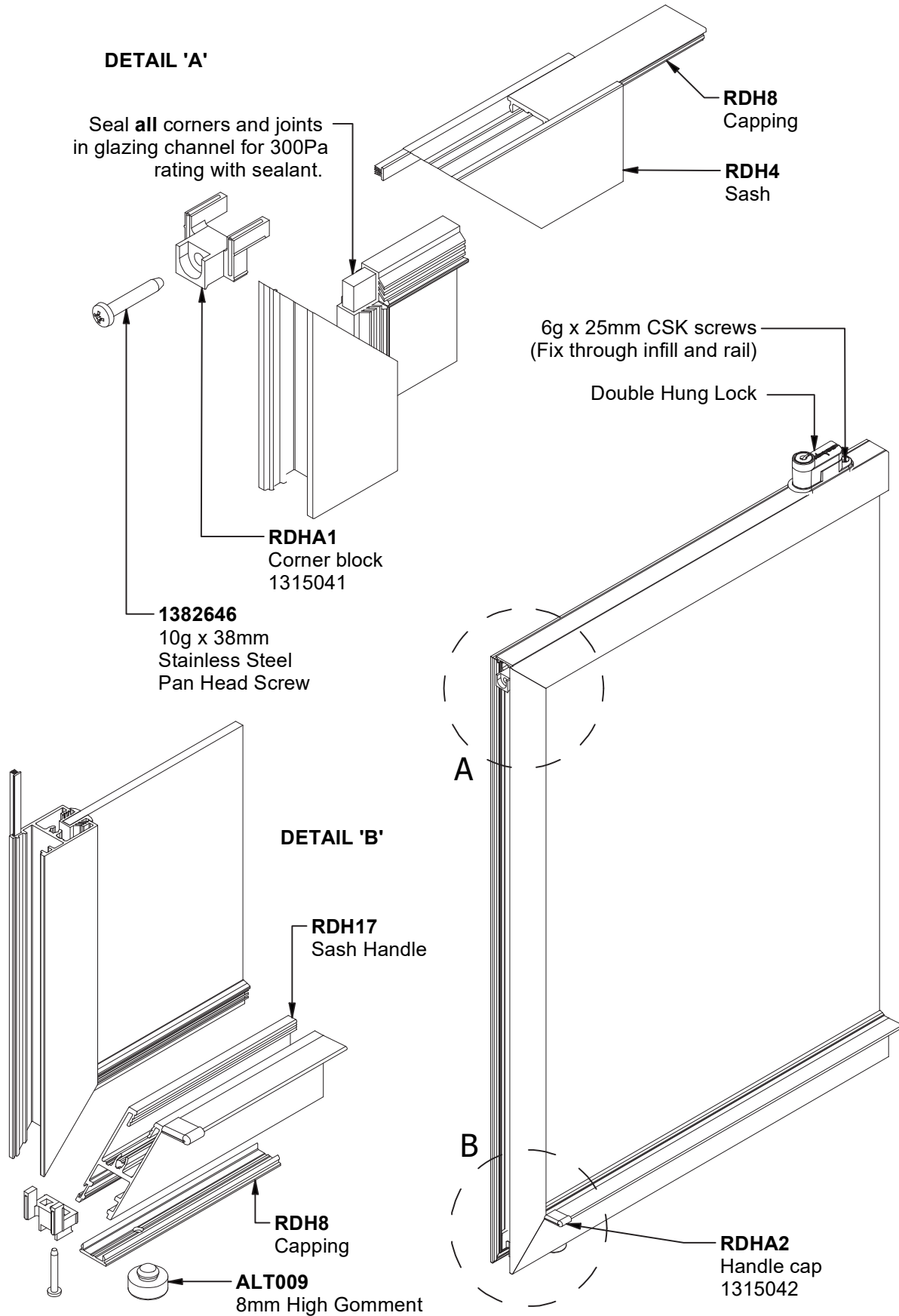


11. Assembly Details

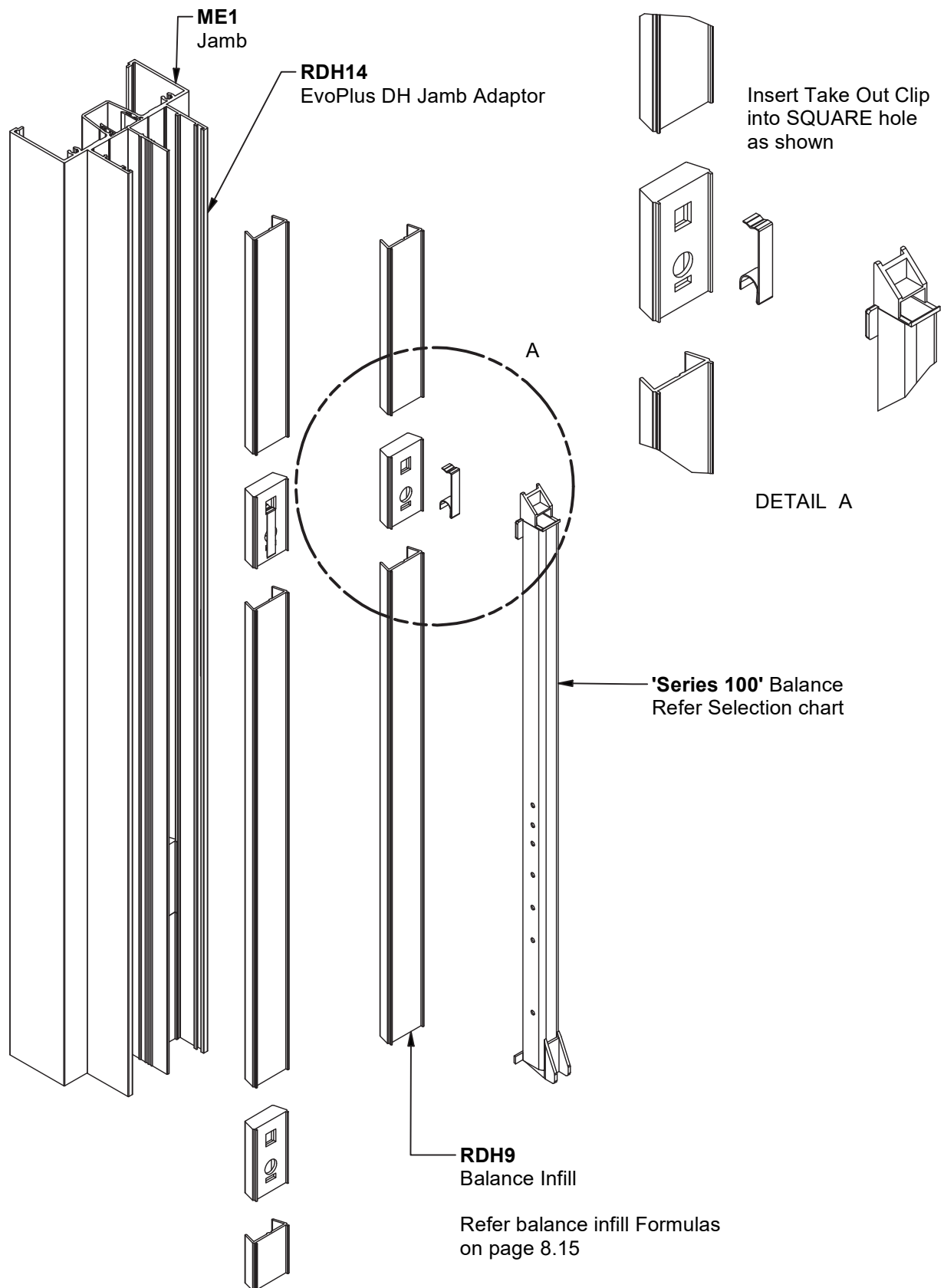
Top Sash Assembly



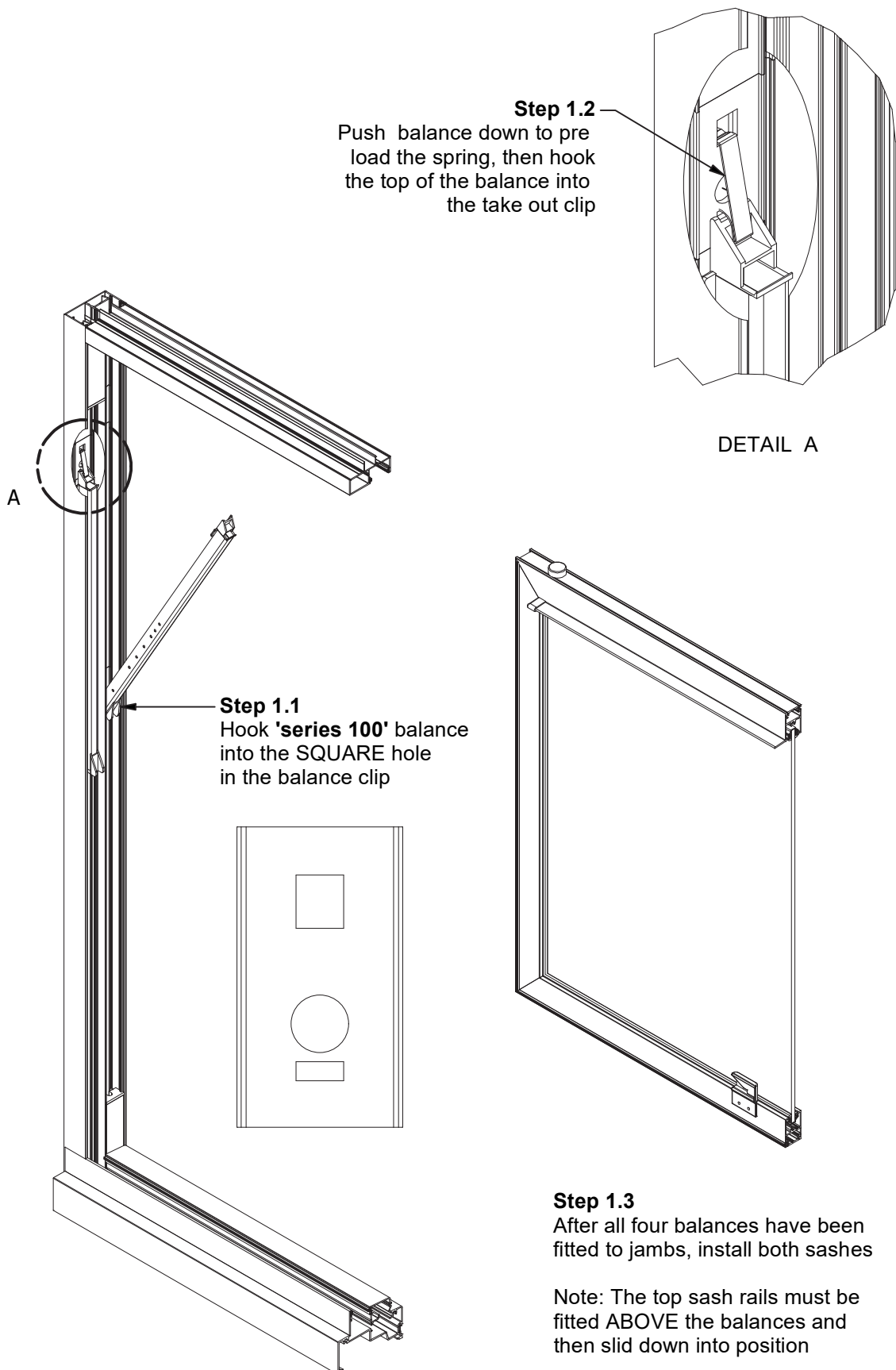
Bottom Sash Assembly



Jamb Assembly



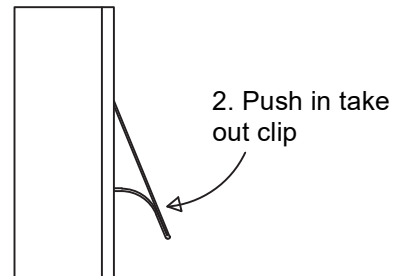
Window Assembly - Step 1



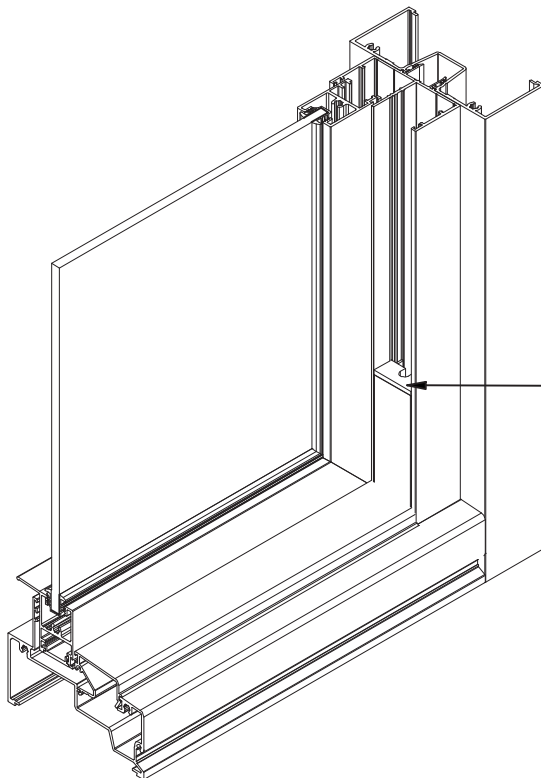
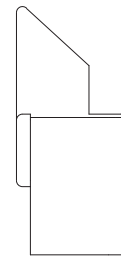
Window Assembly - Step 2

Step 2.1

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



1. Compress
balance spring

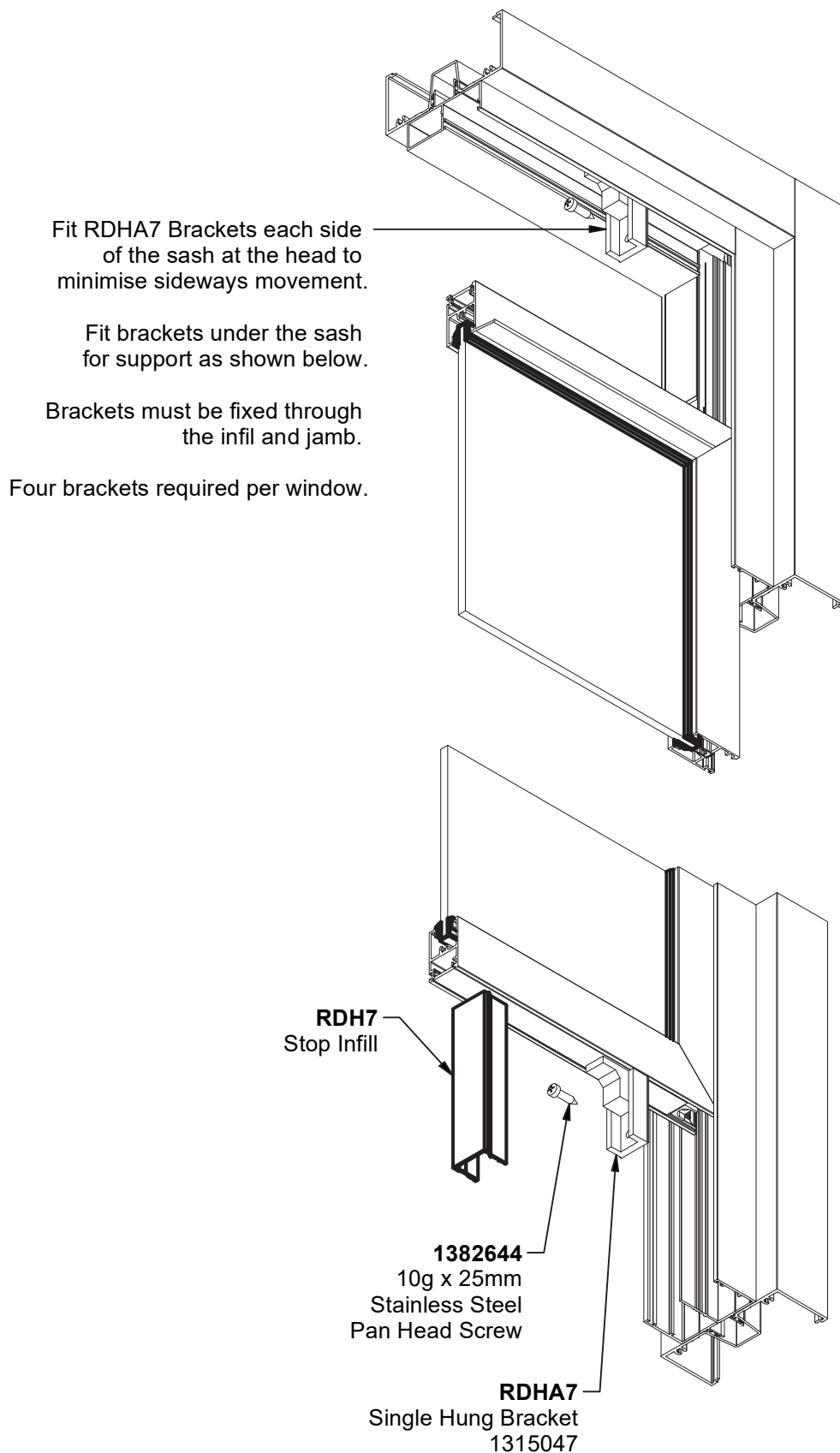


Step 2.2

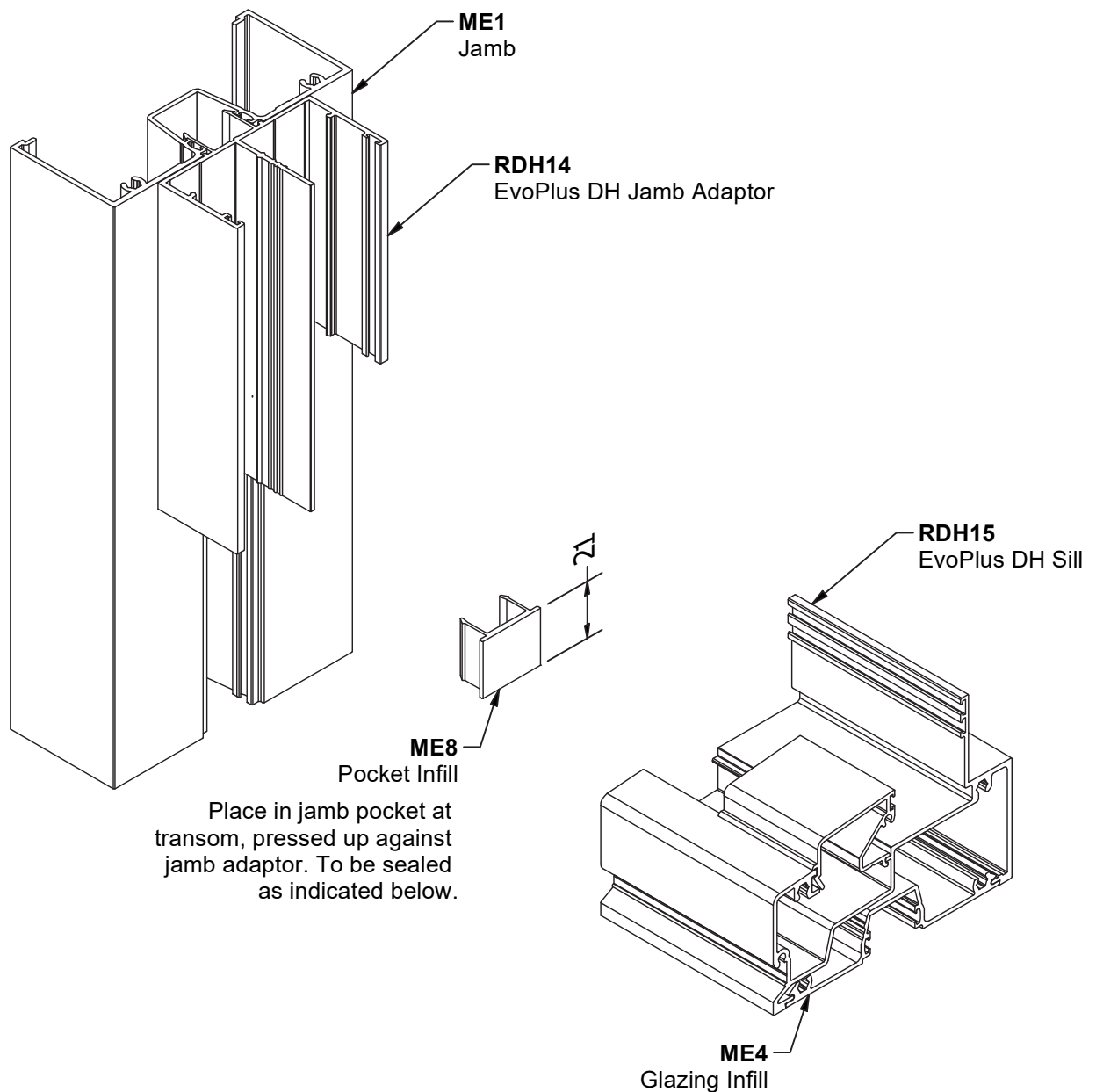
Fit bump stop infill RDH7
and rubber bump stop to all
four corners

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

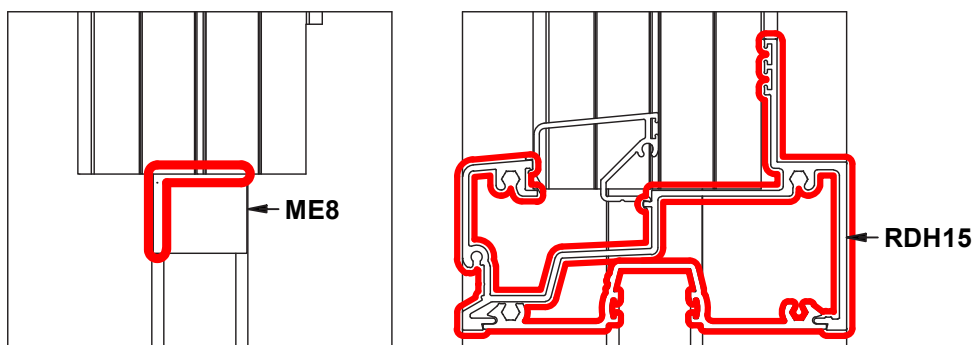
Top Single Hung Configuration Details



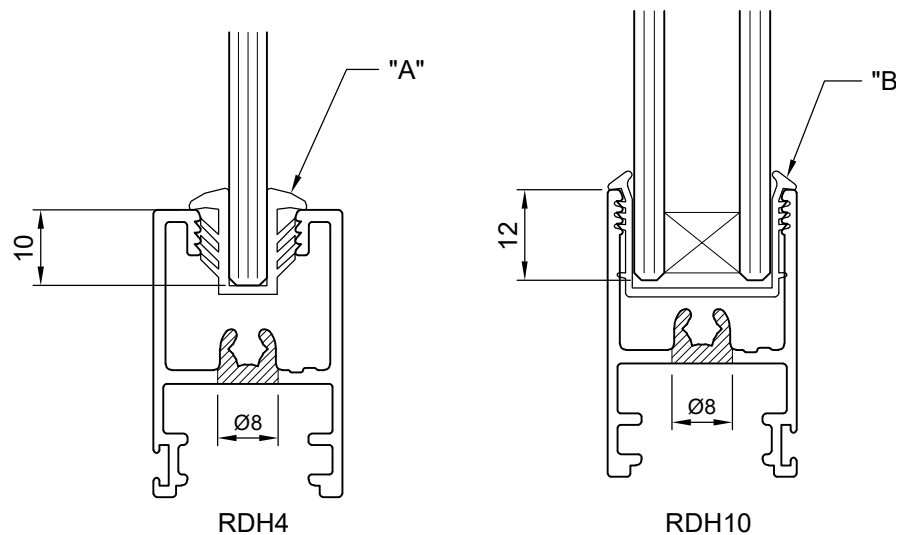
Silicone Detail at Transom



Silicone seal along edges shown below



Single & Double Glazed Sash



	"A" GLAZING CHANNEL		"B" GLAZING CHANNEL	
GLASS THICKNESS	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.

FRAMING

Your new **EvoPlus 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 **EvoPlus Double Hung Window** frame will retain it's good looks and resist the elements for years to come.

The **EvoPlus 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 **EvoPlus 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 **EvoPlus 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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