35mm Awning & Casement Windows

Technical Manual

October 2024 | ISSUE I

EVERYTHING ALUMINIUM & HARDWARE

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35mm
Awning & Casement Windows

Contents

13. CARE & MAINTENANCE

13.1

This page is intended to record all changes to the **35mm AWNING & CASEMENT WINDOWS** 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 Release	362
B	04/2020	Technical Specifications Updated	368
C	06/2020	ECO222 added to pages 5.4, 8.34 & 8.35, snubber added to all typical details & snubber details added pages 10.39-10.41	381
D	03/2021	Updated glazing wedge for 6/6.38mm on page 12.1 & 12.4	445
E	07/2022	Testing pages updated and one test removed.	524
F	09/2022	Added OT22-130 Test Summary to page 4.8	529
G	02/2023	Added OT22-144 Test Summary to page 4.9	540
H	11/2023	Added OT23-178 and OT23-179 Test Summary to page 4.10 and 4.11	573
I	02/2024	Added OT23-210 and OT23-212 Test Summary to page 4.12 and 4.13	583

ALUMINIUM
Aluminium frames should be manufactred using Alspec's **35mm AWNING & CASEMENT WINDOWS** framing system.

Awning
Maximum Height - 2400mm O/A Sash
Minimum Height - 450mm O/A Sash

Maximum Width - 2100mm O/A Sash
Minimum Width - 350mm O/A Sash

Maximum Sash Weight - 35kg (Refer Hardware pages for maximum stay sash weights).

Casement
Maximum Height - 1200mm O/A Sash
Minimum Height - 290mm O/A Sash

Maximum Width - 800mm O/A Sash
Minimum Width - 350mm O/A Sash

Maximum Sash Weight - 30kg (Refer Hardware pages for maximum stay sash weights).

HARDWARE
The hardware shall be Alspec's specific glazing tapes, colour coded wedges and glazing channels for **35mm AWNING & CASEMENT WINDOWS**.
- All other hardware as per Alspec Technical Manual

FINISHED
- All powder coated material shall be produced to AS3715
- All anodised material shall be produced to AS1231

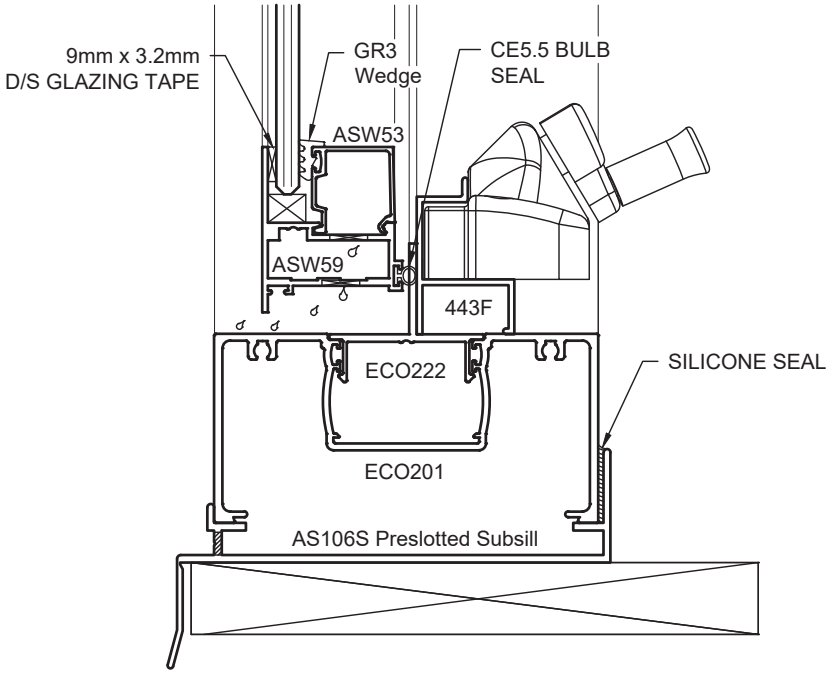
TESTING
Product shall have a test report to show compliance to AS2047.

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

Fabricators of the 35mm AWNING & CASEMENT WINDOWS framing system should seek certification by a consultant structural engineer as to the framing being acceptable for the design wind pressure and deflection characteristics required of the site.

AS2047 - ecoFRAMEplus 101.6mm Framing plus Awning

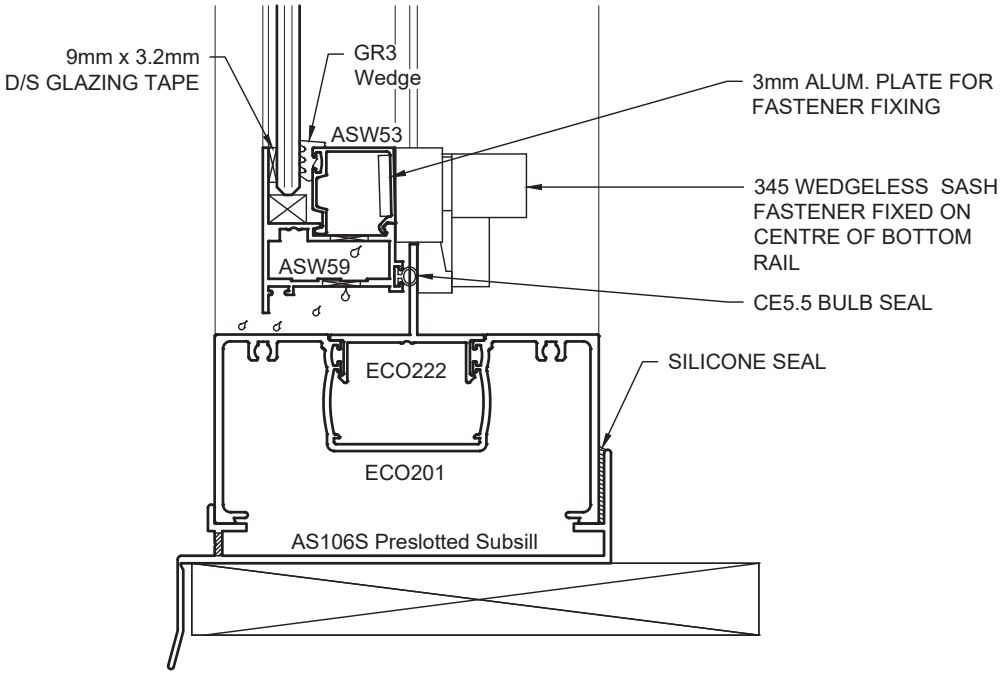
TEST REPORT:	AS08-044
SYSTEM CONFIGURATION	ecoFRAMEplus 101.6mm FRAMING WITH INSERT AWNING SASH ASW58 AND ASW59 AND ASW57 TOP HINGE WITH CHAINWINDER
TEST SAMPLE SIZE	1.31m High x 0.915m Wide
SERVICEABILITY LOAD	+/- 1200 Pa
ULTIMATE LOAD	+/- 1800 Pa
WATER PENETRATION	700 Pa
AIR INFILTRATION @ 75Pa	+ 0.00 L/s/m² - 0.15 L/s/m²



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

AS2047 - ecoFRAMEplus 101.6mm Framing plus Awning

TEST REPORT:	AS08-048
SYSTEM CONFIGURATION	ecoFRAMEplus 101.6mm FRAMING WITH INSERT AWNING SASH ASW58 AND ASW59 AND ASW57 TOP HINGE WITH TWO CAM HANDLES 150mm FROM EACH END OF BOTTOM RAIL
TEST SAMPLE SIZE	1.31m High x 0.915m Wide
SERVICEABILITY LOAD	+/- 2000 Pa
ULTIMATE LOAD	+/- 3000 Pa
WATER PENETRATION	700 Pa
AIR INFILTRATION @ 75Pa	+ 0.00 L/s/m² - 0.45 L/s/m²



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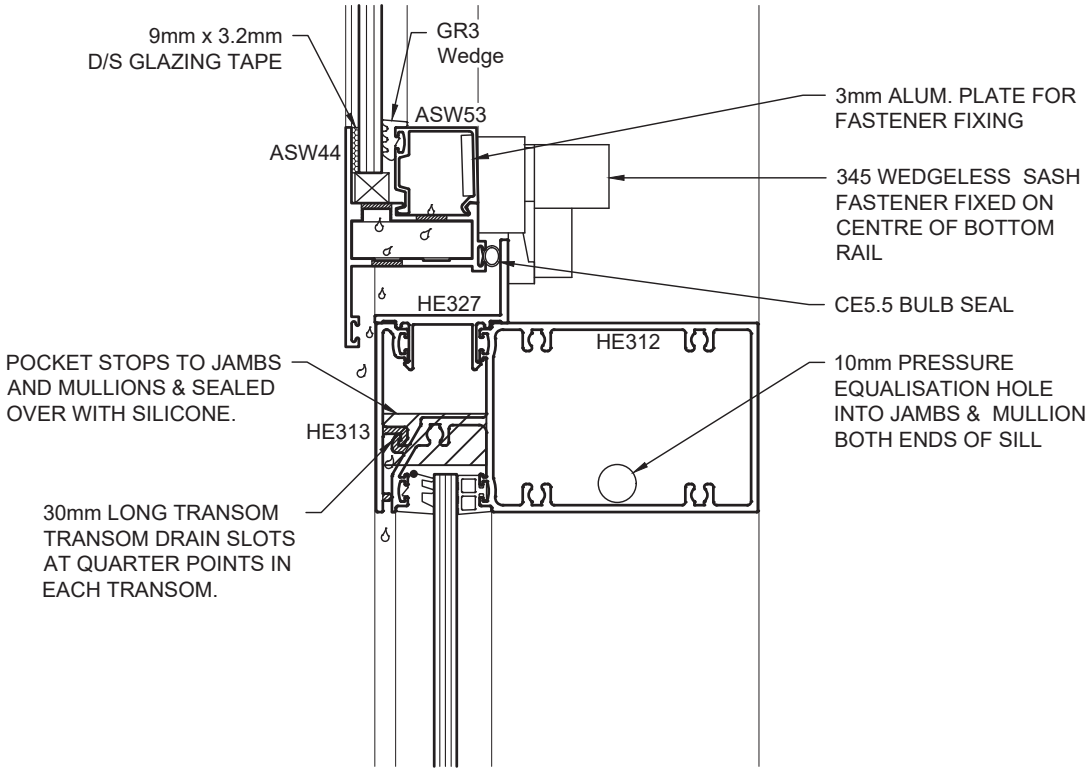
AS2047 - Hunter Evo 101.6mm Framing plus Awning

TEST REPORT:	AS12.191
SYSTEM CONFIGURATION	HUNTER EVO 101.6mm SG A/F-F/F WITH HE302 HE303 MULLION AND HE312 HE313 TRANSOM AND ASW44 AWNING SASH 1.2m H x 0.9m W
TEST SAMPLE SIZE	2.4m High x 1.8m Wide
SERVICEABILITY LOAD	+/- 1000 Pa
ULTIMATE LOAD	+/- 1513 Pa
WATER PENETRATION	500 Pa
AIR INFILTRATION @ 75Pa	+ 0.25 L/s/m² - 2.98 L/s/m²



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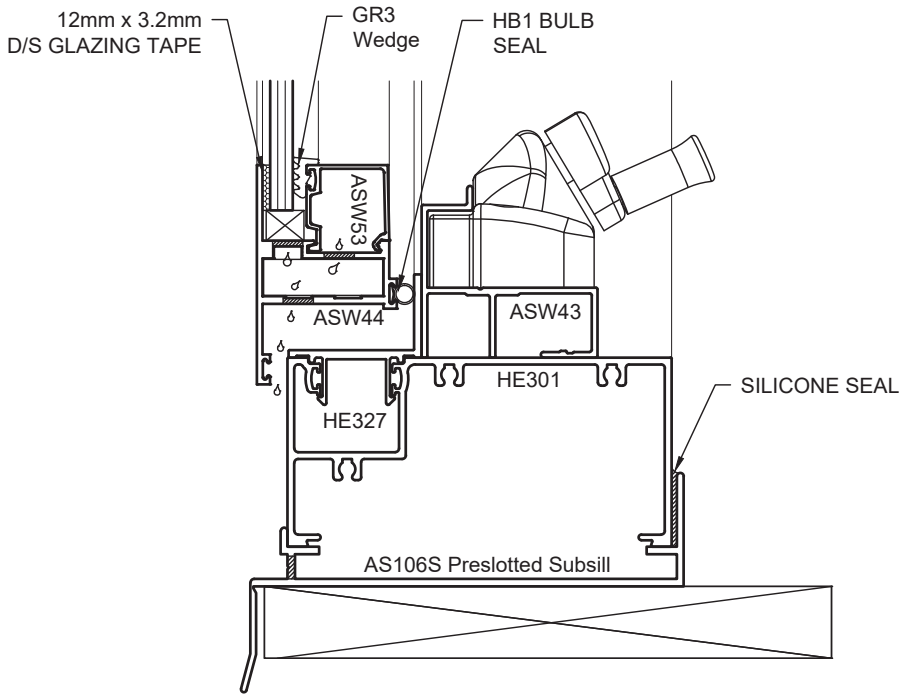
AS2047 - Hunter Evo 101.6mm Framing plus Awning

TEST REPORT:	OT22-122
SYSTEM CONFIGURATION	HUNTER EVO 101.6mm FRAMING WITH TOP HUNG ASW461 AWNING SASH
TEST SAMPLE SIZE	0.8m High x 2.43m Wide
SERVICEABILITY LOAD	+/- 2000 Pa
ULTIMATE LOAD	+/- 4029 Pa
WATER PENETRATION	1000 Pa
AIR INFILTRATION @ 75Pa	+ 0.08 L/s/m² - 0.10 L/s/m²



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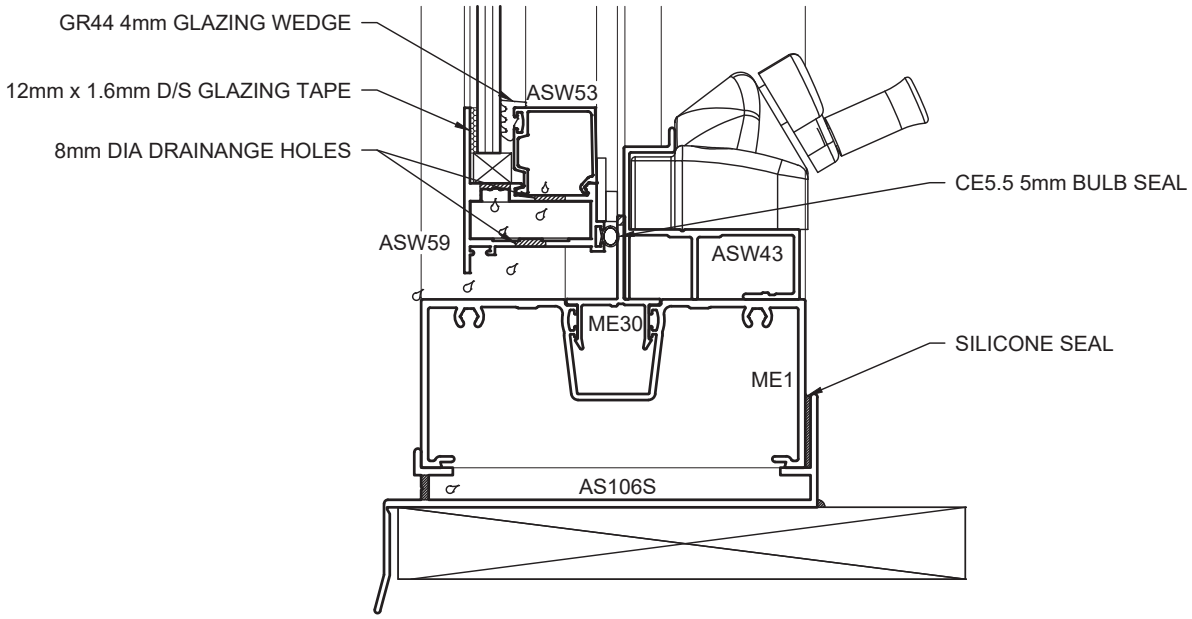
AS2047 - McArthur Evo 101.6mm Framing plus Awning

TEST REPORT:	OT22-130
SYSTEM CONFIGURATION	MCARTHUR EVO 101.6mm FRAMING WITH ASW59/ASW53 AWNING SASH
TEST SAMPLE SIZE	1.0m High x 1.2m Wide
SERVICEABILITY LOAD	+/- 2501 Pa
ULTIMATE LOAD	+/- 4012 Pa
WATER PENETRATION	750 Pa
AIR INFILTRATION @ 75Pa	+ 0.19 L/s/m² - 0.23 L/s/m²



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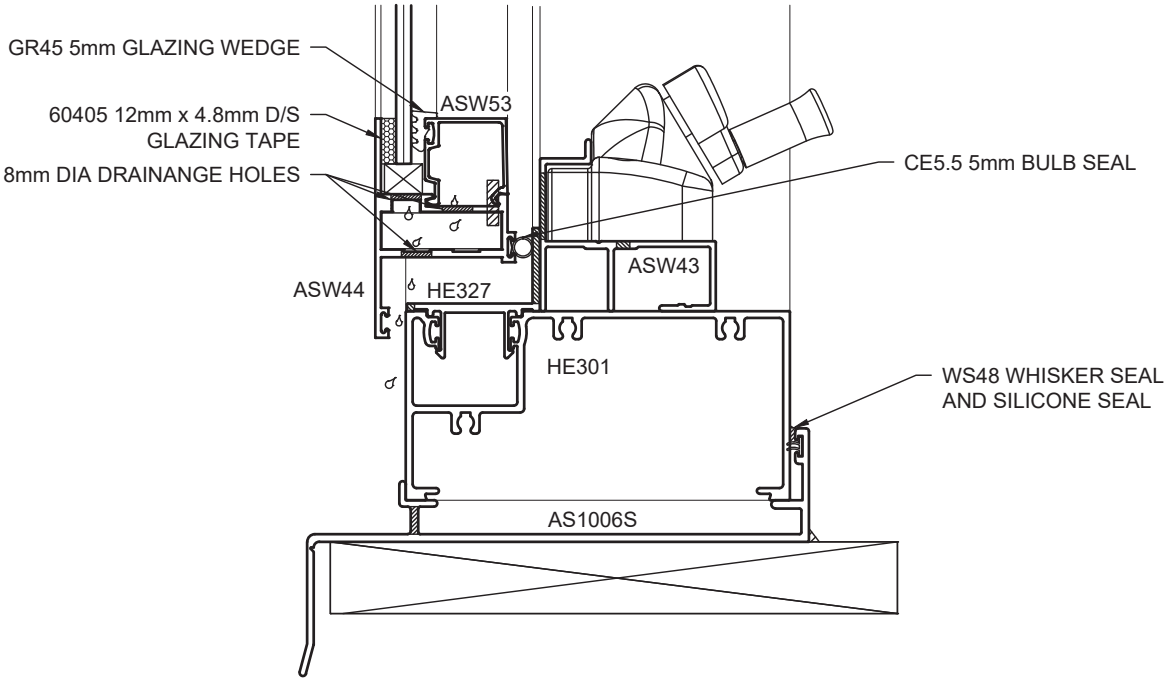
AS2047 - Hunter Evo 101.6mm Framing plus Awning

TEST REPORT:	OT22-144
SYSTEM CONFIGURATION	HUNTER EVO 101.6mm FRAMING WITH ASW44/ASW53 AWNING SASH
TEST SAMPLE SIZE	1.37m High x 1.1m Wide
SERVICEABILITY LOAD	+/- 2000 Pa
ULTIMATE LOAD	+/- 3502 Pa
WATER PENETRATION	600 Pa
AIR INFILTRATION @ 75Pa	+ 0.12 L/s/m² - 0.06 L/s/m²



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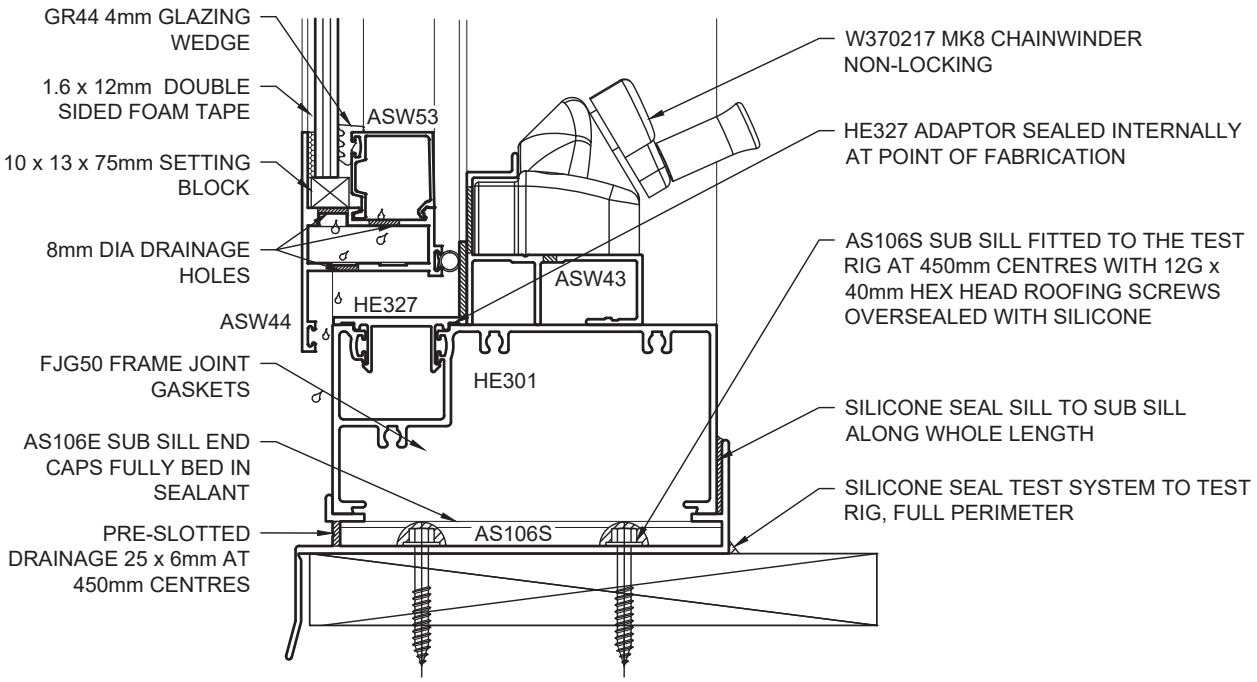
AS2047 - Hunter Evo 101.6mm Framing plus Awning (Housing only)

TEST REPORT:	OT23-178
SYSTEM CONFIGURATION	HUNTER EVO 101.6mm FRAMING WITH ASW44/ASW53 AWNING SASH
TEST SAMPLE SIZE	2.432m High x 0.9m Wide
ULTIMATE LOAD	+/- 2086 Pa
WATER PENETRATION	602 Pa
AIR INFILTRATION @ 75Pa	+ 0.09 L/s/m² - 2.18 L/s/m²



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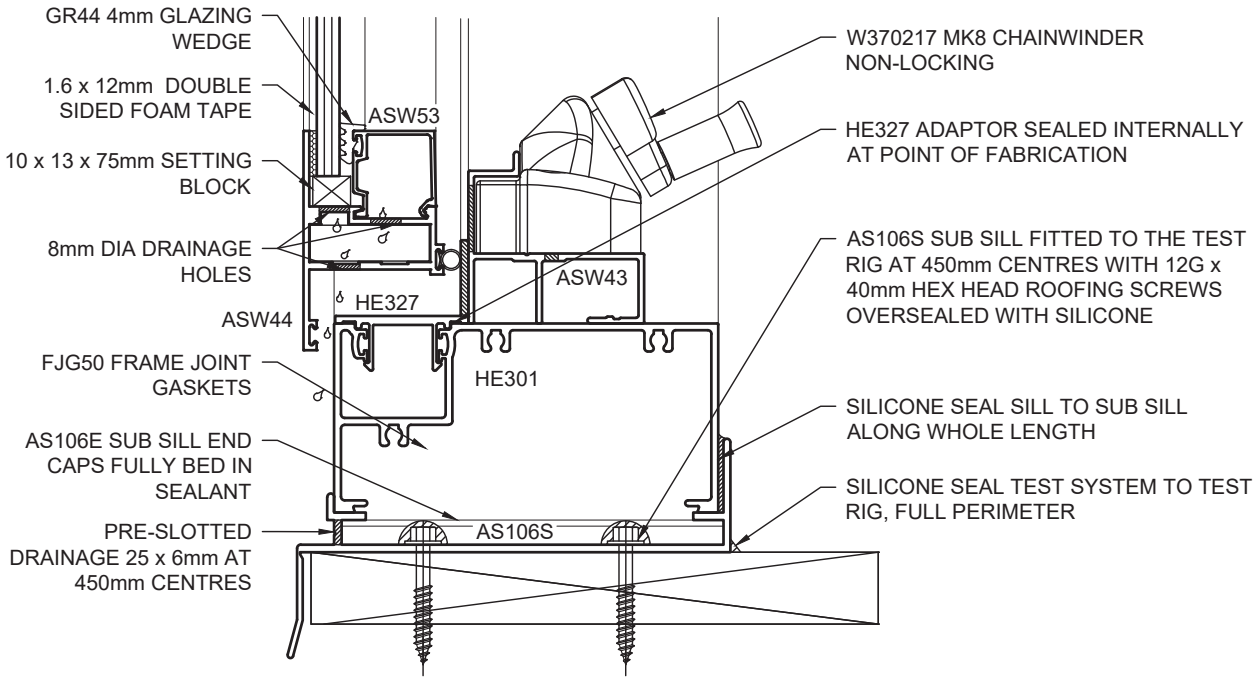
AS2047 - Hunter Evo 101.6mm Framing plus Awning (Housing only)

TEST REPORT:	OT23-179
SYSTEM CONFIGURATION	HUNTER EVO 101.6mm FRAMING WITH ASW44/ASW53 AWNING SASH
TEST SAMPLE SIZE	1.0m High x 2.1m Wide
ULTIMATE LOAD	+/- 2507 Pa
WATER PENETRATION	602 Pa
AIR INFILTRATION @ 75Pa	+ 0.17 L/s/m² - 0.21 L/s/m²



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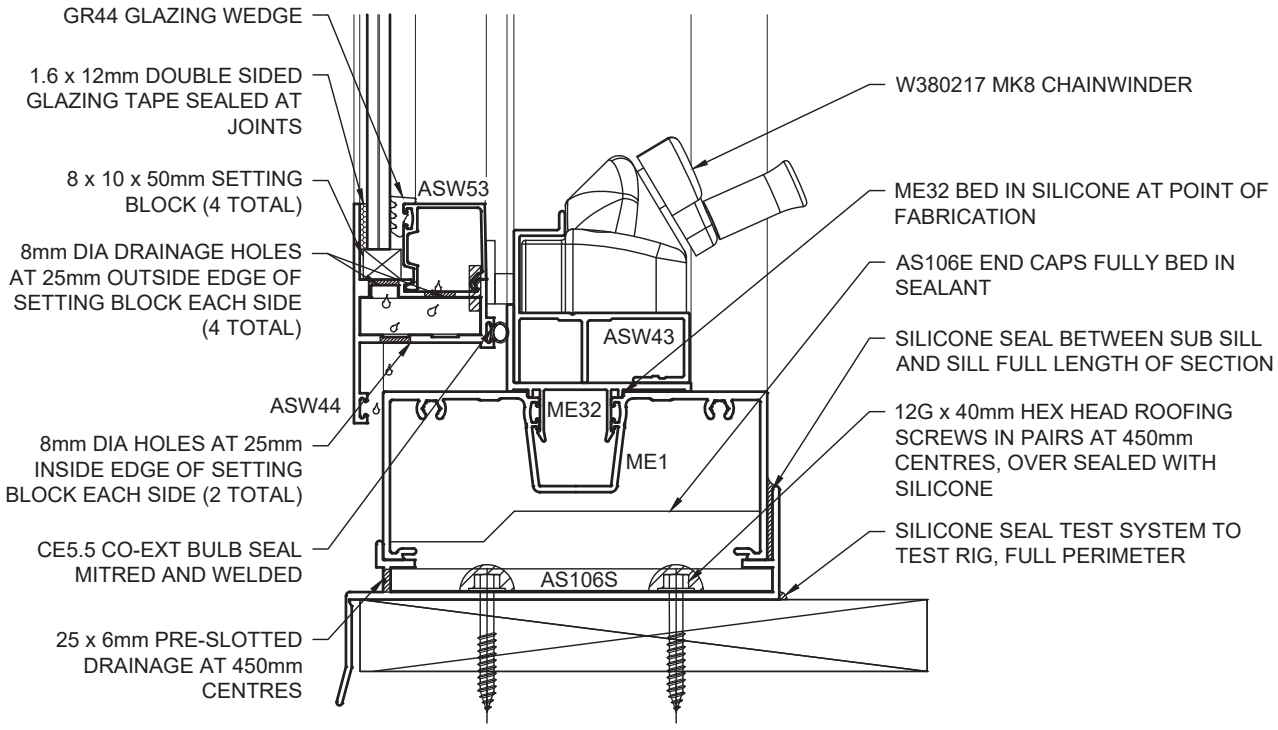
AS2047 - McArthur Evo 101.6mm Framing plus Awning

TEST REPORT:	OT23-210
SYSTEM CONFIGURATION	McARTHUR EVO 101.6mm FRAMING WITH ASW44/ASW53 AWNING SASH WITH CHAINWINDER AND CAM HANDLES 100mm FROM EACH END OF BOTTOM RAIL
TEST SAMPLE SIZE	2.432m High x 0.92m Wide
ULTIMATE LOAD	+/- 2002 Pa
WATER PENETRATION	602 Pa
AIR INFILTRATION @ 75Pa	+ 0.59 L/s/m² - 12.42 L/s/m²



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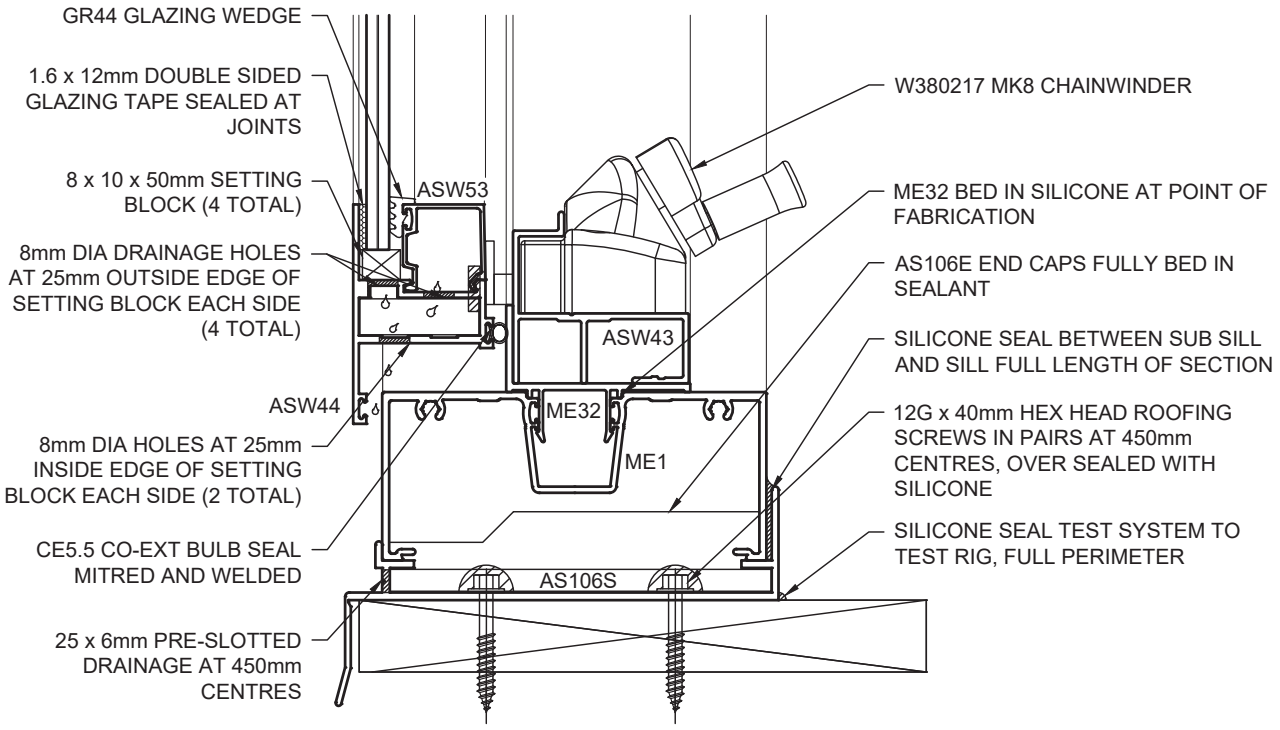
AS2047 - McArthur Evo 101.6mm Framing plus Awning

TEST REPORT:	OT23-212
SYSTEM CONFIGURATION	McARTHUR EVO 101.6mm FRAMING WITH ASW44/ASW53 AWNING SASH WITH CHAINWINDER AND CAM HANDLES 100mm FROM EACH END OF BOTTOM RAIL
TEST SAMPLE SIZE	1.01m High x 2.12m Wide
ULTIMATE LOAD	+/- 2002 Pa
WATER PENETRATION	602 Pa
AIR INFILTRATION @ 75Pa	+ 0.14 L/s/m² - 0.08 L/s/m²



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Acoustic - AS/NZS ISO 717.1

TEST REPORT	PRODUCT DESCRIPTION	SIZE	GLASS	Rw
4863-r15	HUNTER EVO 101.6mm WITH ASW44 AWNING FIXED OVER FIXED / FIXED USING HE302 / HE303 MULLIONS	2.1m (H) x 1.8m (W)	6.38mm CLEAR LAMINATE	31
4863-r4 Rev.A	McARTHUR FIXED FRAME CENTRE MULLION AND ASW44 AWNING SASH	1.2m (H) x 1.8m (W)	6.38mm CLEAR LAMINATE	33

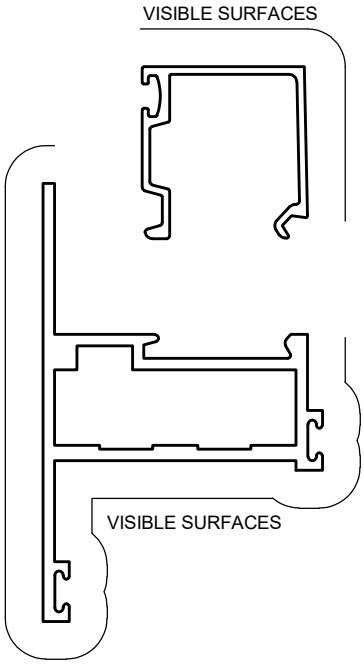
BAL40 - AS 1530.8.1-2007

TEST REPORT	PRODUCT DESCRIPTION	SIZE	GLASS	SEALS	RESULT
FSZ1662A	McARTHUR FRAME ASW44 TOP HUNG AWNING WINDOW	0.75m (H) x 0.45m (W)	6mm CLEAR TOUGHENED	GR46FR	BALA40

ASW44 & ASW4 Awnings

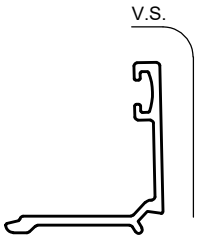
ASW53
BEAD
(4-6mm GLASS)

Mass. 0.257 Kg/m
Anod. Per. 151
Paint Per. 100



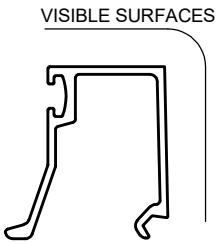
ASW51
BEAD DG
(18-24mm IGU)

Mass. 0.151 Kg/m
Anod. Per. 100
Paint Per. 100



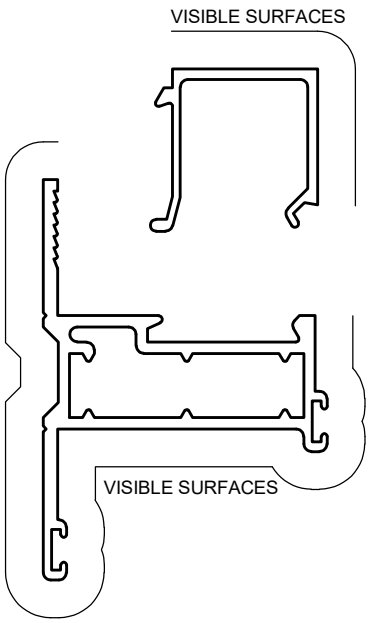
ASW52
BEAD
(8-12mm GLASS)

Mass. 0.202 Kg/m
Anod. Per. 137
Paint Per. 100



ASW44
35mm STRAIGHT
FACE SASH

Mass. 0.686 Kg/m
Anod. Per. 220
Paint Per. 158



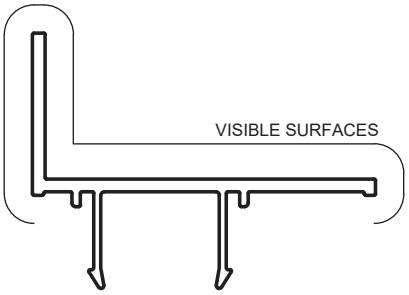
ASW5
BEAD
(5-6mm GLASS
ASW4 SASH)

Mass. 0.220 Kg/m
Anod. Per. 131
Paint Per. 100

ASW4
35mm STRAIGHT
SASH

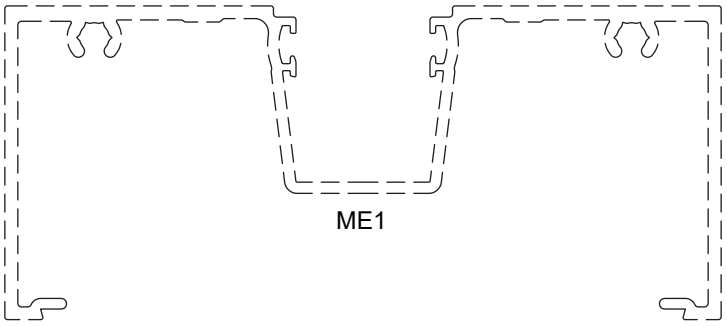
Mass. 0.672 Kg/m
Anod. Per. 217
Paint Per. 151

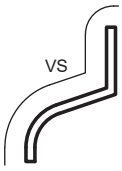
McArthur & McArthur Evo Sash Adaptor



ME32
35mm SASH ADAPTOR

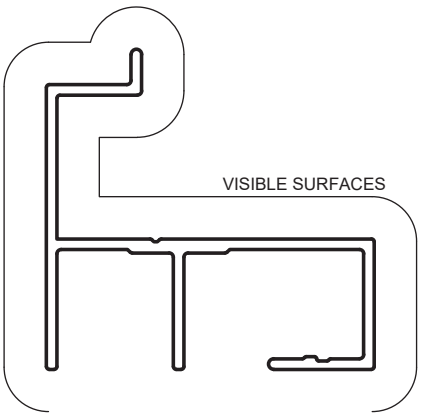
Mass. 0.430 Kg/m
Anod. Per. 204
Paint Per. 100





ASW11
DRIP MOULD

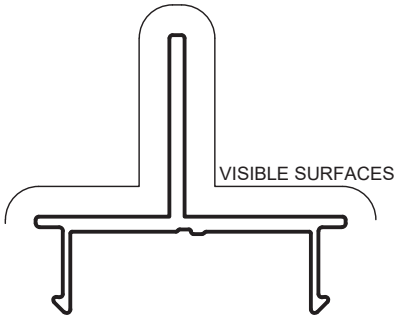
Mass. 0.090 Kg/m
Anod. Per. 100
Paint Per. 100



ASW43
AWNING WINDER ADAPTOR

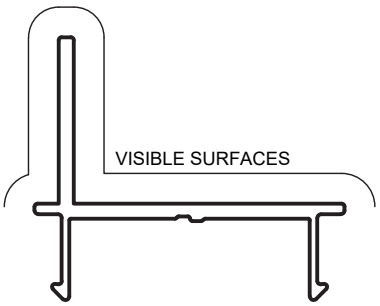
Mass. 0.624 Kg/m
Anod. Per. 299
Paint Per. 160

ecoFRAMEplus Sash Adaptors



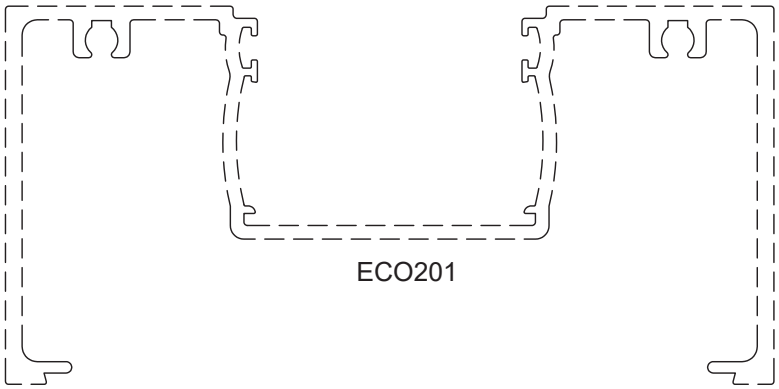
ECO222
50mm SASH ADAPTOR

Mass. 0.406 Kg/m
Anod. Per. 178
Paint Per. 100

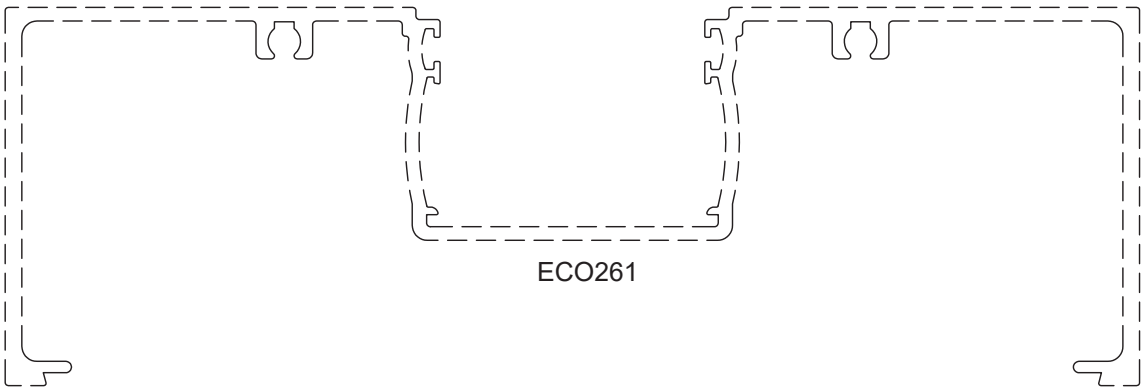


ECO223
35mm SASH ADAPTOR

Mass. 0.395 Kg/m
Anod. Per. 174
Paint Per. 100



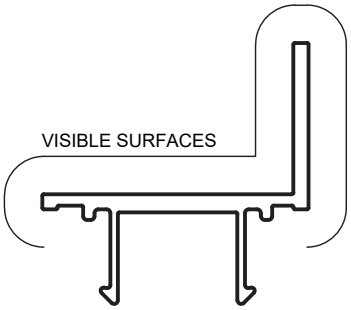
ECO201



ECO261

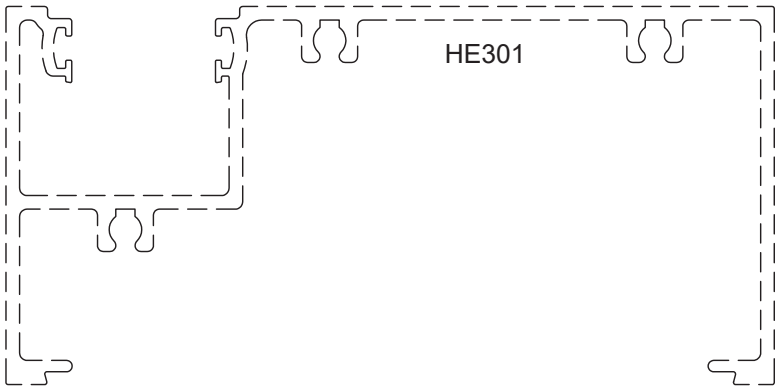
Hunter Evo Framing

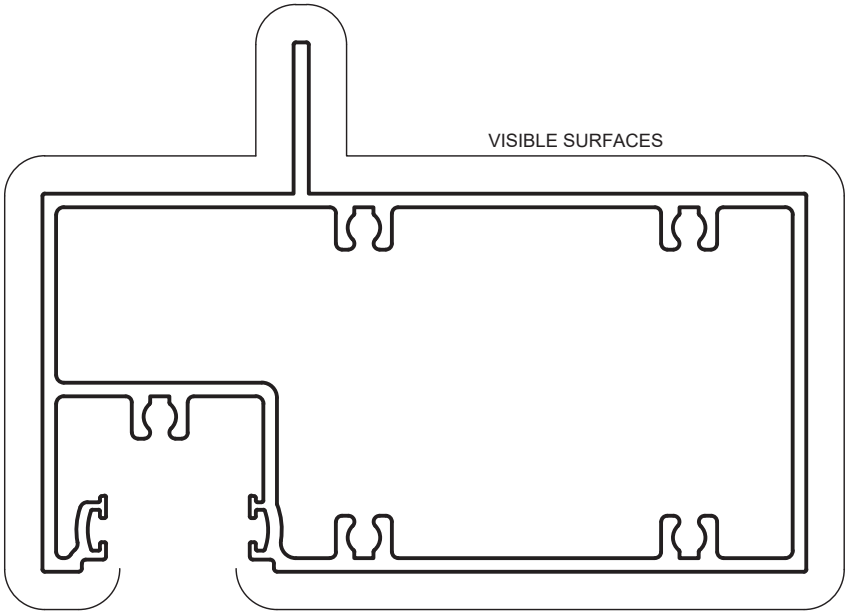
NOTE:
SAME SASH ADAPTORS
USED IN 150mm FRAMES



HE327
35mm SASH
ADAPTOR

Mass. 0.395 Kg/m
Anod. Per. 171
Paint Per. 100





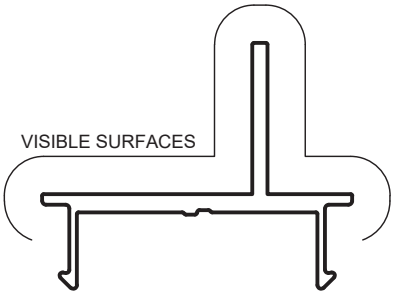
HE324
TRANSOM SG
35mm SASH

Mass. 2.053 Kg/m
Anod. Per. 455
Paint Per. 316

Ixx = 884.68 x 10^3 mm^4

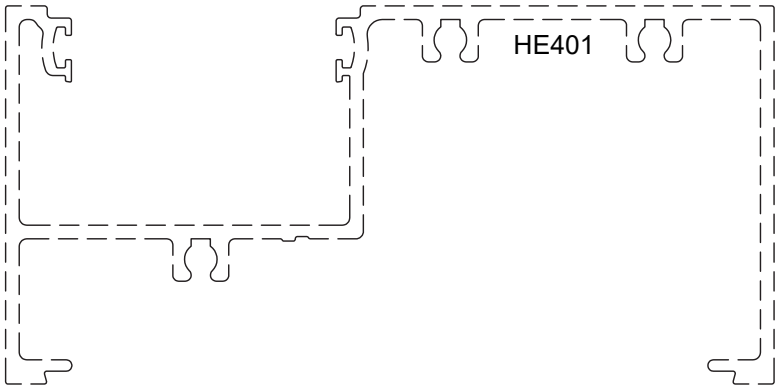
Hunter Evo Framing

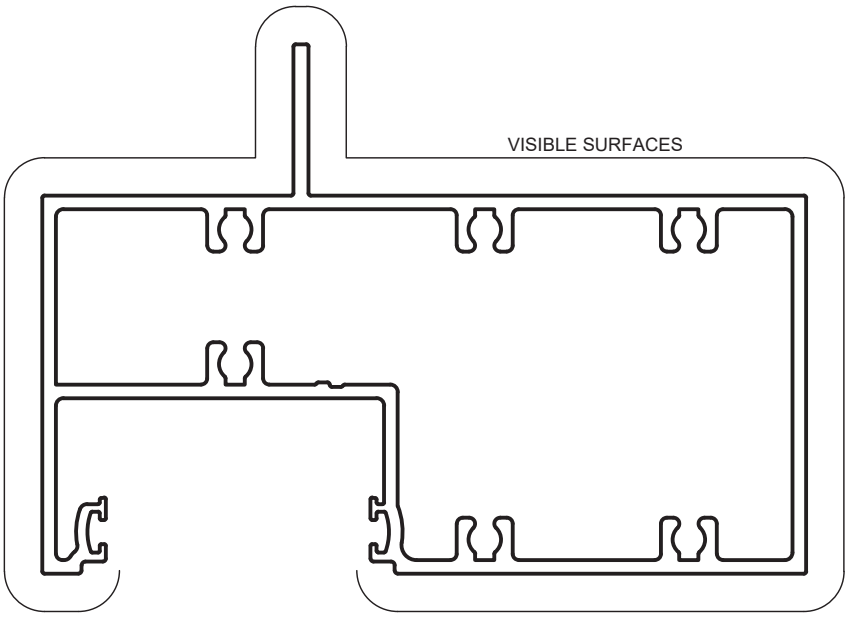
NOTE:
SAME SASH ADAPTORS
USED IN 150mm FRAMES



HE427
35mm SASH ADAPTOR

Mass. 0.418 Kg/m
Anod. Per. 169
Paint Per. 100



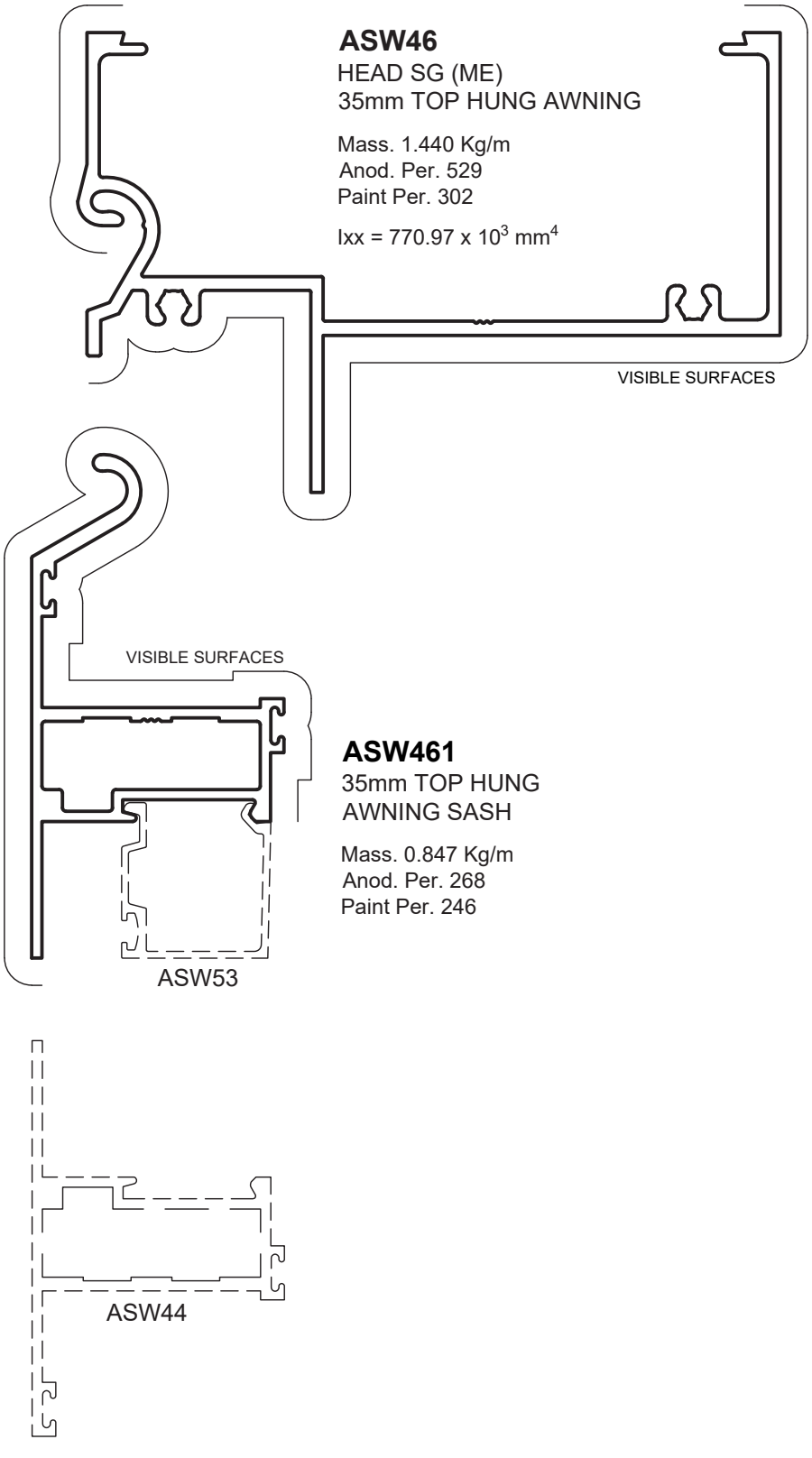


HE424
TRANSOM DG
35mm SASH

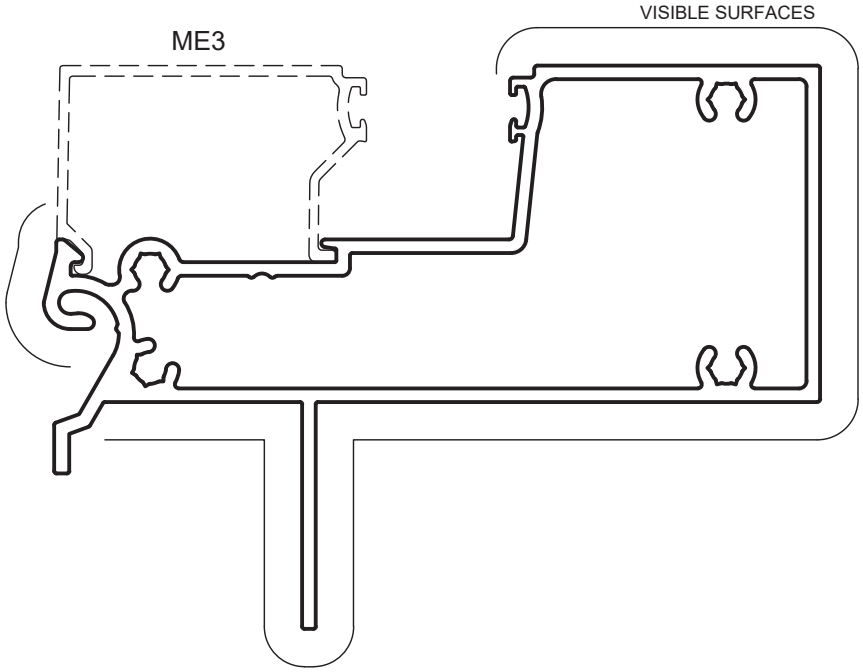
Mass. 2.231 Kg/m
Anod. Per. 433
Paint Per. 300

Ixx = 871.91 x 10^3 mm^4

Top Hung Awning



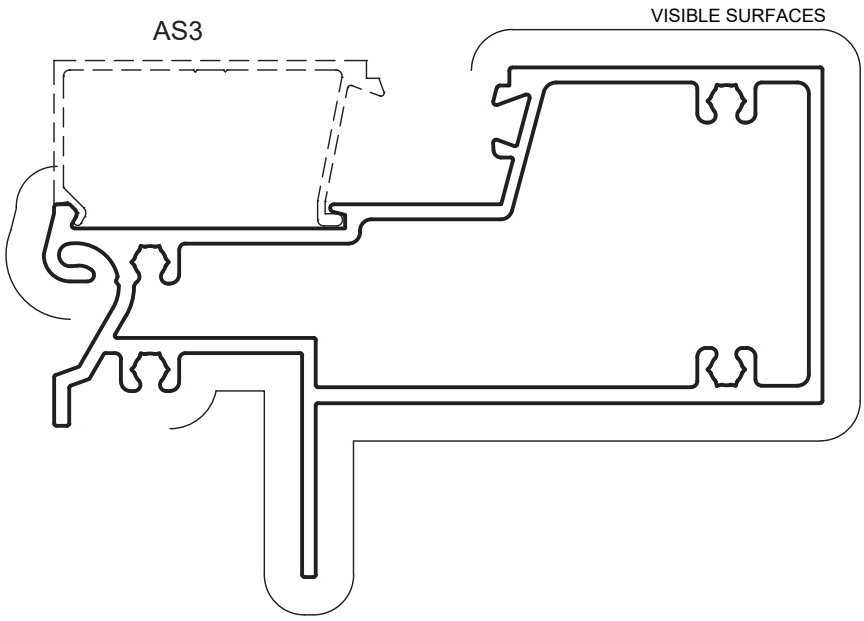
Top Hung Framing



ASW66
TRANSOM SG (ME)
FIXED / AWNING
35mm TOP HUNG
AWNING

Mass. 1.889 Kg/m
Anod. Per. 422
Paint Per. 281

Ixx = 800.13 x 10^3 mm^4

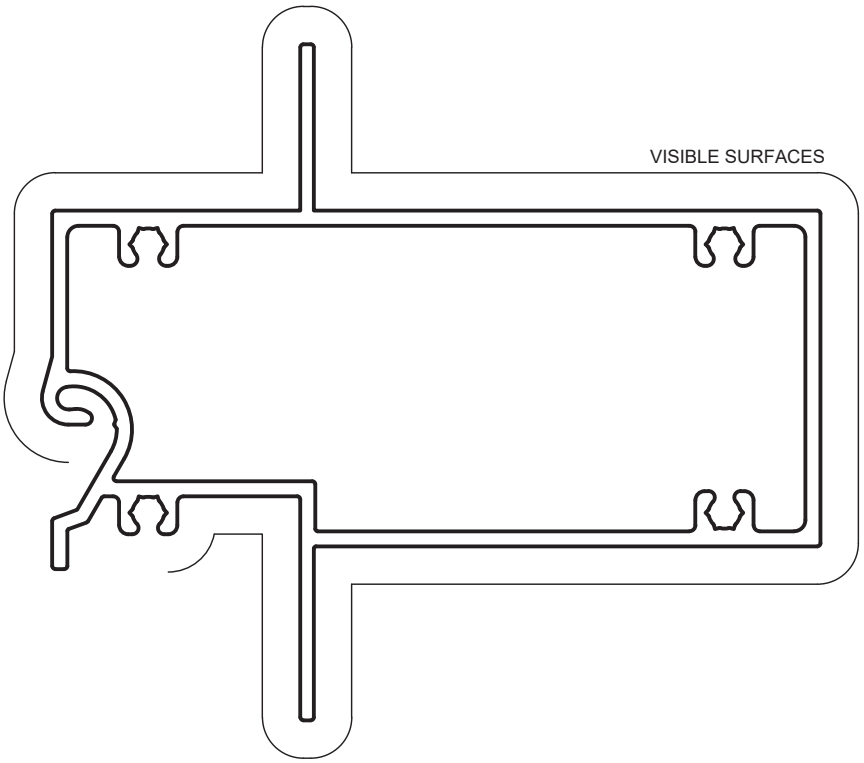


ASW60
TRANSOM SG (McA)
FIXED / AWNING
35mm TOP HUNG
AWNING

Mass. 2.045 Kg/m
Anod. Per. 422
Paint Per. 229

Ixx = 852.21 x 10^3 mm^4

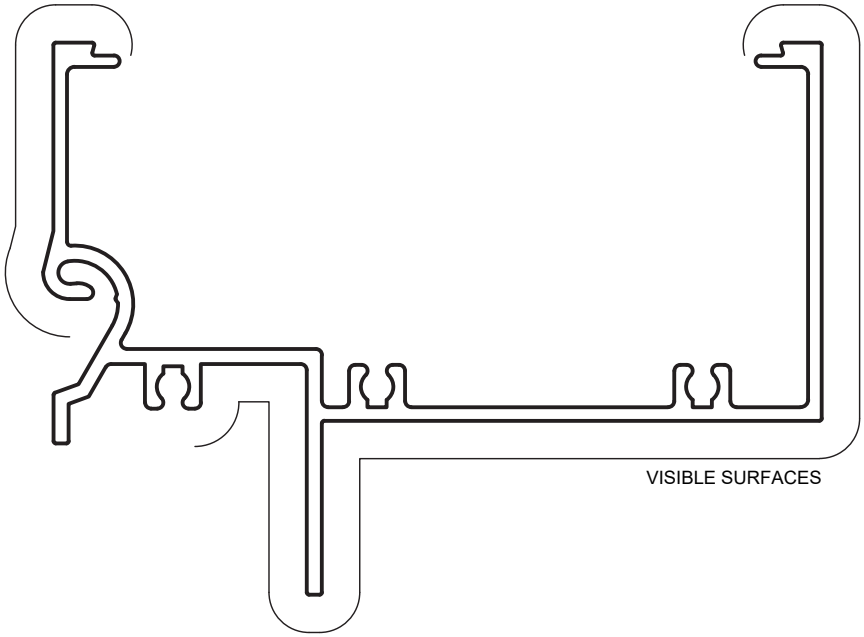
Top Hung Framing



ASW61
TRANSOM SG (ME)
AWNING / AWNING
35mm TOP HUNG AWNING

Mass. 2.125 Kg/m
Anod. Per. 443
Paint Per. 350

Ixx = 960.00 x 10^3 mm^4

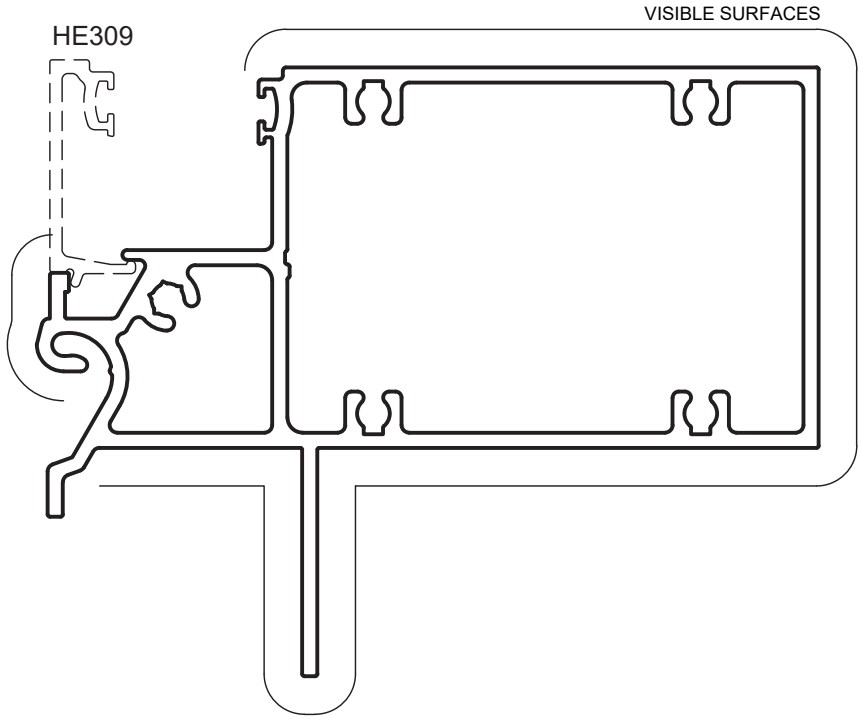


ASW469
HEAD DG (HE)
35mm TOP HUNG AWNING

Mass. 1.527 Kg/m
Anod. Per. 578
Paint Per. 238

Ixx = 793.45 x 10^3 mm^4

Top Hung Framing

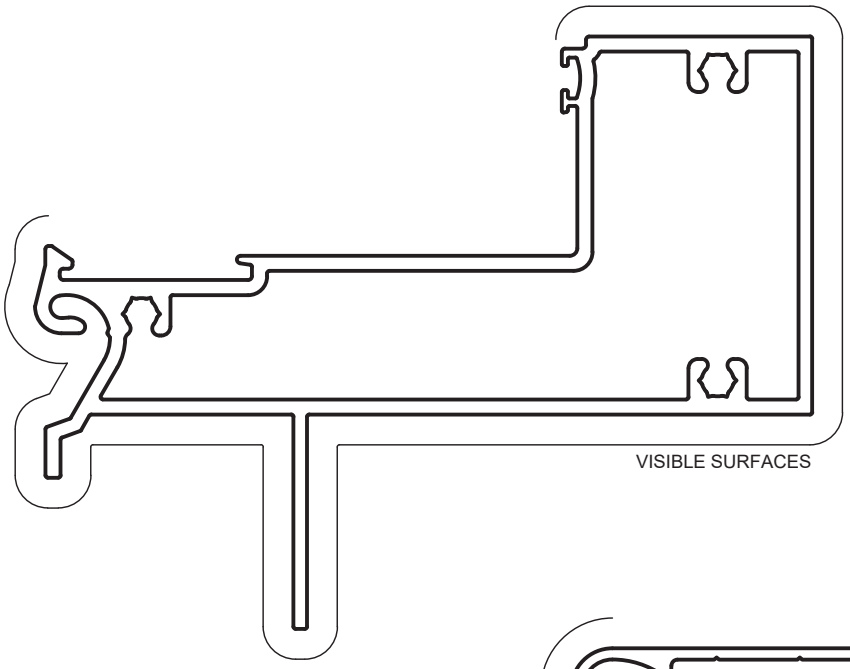


ASW467
EXT. GL. TRANSOM SG (HE)
FIXED / AWNING
35mm TOP HUNG AWNING

Mass. 2.337 Kg/m
Anod. Per. 431
Paint Per. 290

Ixx = 902.11 x 10^3 mm^4

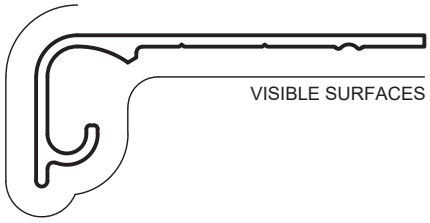
Plant On Top Hung Awning



ECO230
TRANSOM DG (EFP)
FIXED / AWNING
35mm TOP HUNG
AWNING

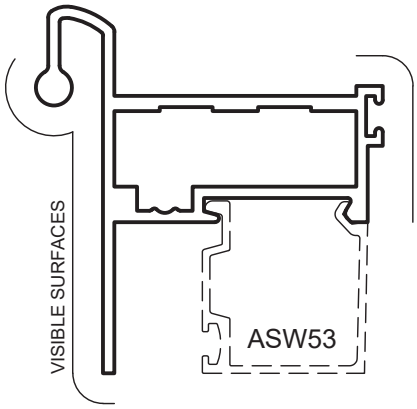
Mass. 2.031 Kg/m
Anod. Per. 426
Paint Per. 280

Ixx = 849.02 x 10^3 mm^4



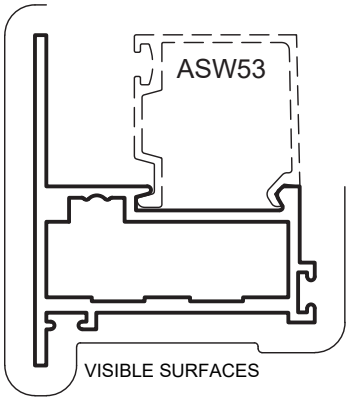
ASW57
AWNING HINGE

Mass. 0.331 Kg/m
Anod. Per. 157
Paint Per. 111



ASW58
35mm HINGE SASH

Mass. 0.722 Kg/m
Anod. Per. 225
Paint Per. 111



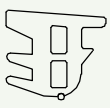
ASW59
35mm SASH

Mass. 0.619 Kg/m
Anod. Per. 188
Paint Per. 125

Awning Sash Adaptor Selection Chart

SECTION	DESCRIPTION
AS581	DERWENT 76mm CENTRE GLAZED & 35mm SASH
ME32	McARTHUR EVO 101.6mm CENTRE GLAZED & 35mm SASH
ECO222	ecoFRAMEplus 101.6mm CENTRE DOUBLE GLAZED 35mm SASH - TOP HUNG INSET SASH
ECO223	ecoFRAMEplus 101.6mm CENTRE DOUBLE GLAZED & 35mm SASH
ECO223	ecoFRAMEplus 150mm CENTRE DOUBLE GLAZED WITH ASW57, ASW58 & ASW59 SASH ONLY
HE327	HUNTER EVO 101.6mm SINGLE FLUSH GLAZED & 35mm SASH
HE427	HUNTER EVO 101.6mm DOUBLE FLUSH GLAZED & 35mm SASH
HE427	ecoWALL225 FLUSH GLAZED FRAMING & 35mm SASH

Glazing Wedges

IMAGE	TO SUIT GAP	MATERIAL	PART #	DESCRIPTION
	2mm	PVC	1376132	GR32 GLAZING WEDGE (2mm GAP) x 200m ROLL
	2mm	PVC	1376012	GR2 GLAZING WEDGE (2mm GAP) x 100m 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
	4mm	PVC	1376015	GR3 GLAZING WEDGE (4mm GAP) x 100m ROLL
	5mm	PVC	1313057	GR45 GLAZING WEDGE (BLUE) (5mm GAP) PVC x 150m ROLL
		PVC	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
		PVC	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
	9mm	PVC	1313076	GR50 GLAZING WEDGE (GREEN) (9mm GAP) PVC x 100m ROLL

Seals

IMAGE	PART #	MATERIAL	DESCRIPTION
	1376300	PVC	HB1 BULB SEAL x 100m
	1376345	S/PRENE	CE5.5 CO-EXT BULB SEAL (5.5mm DIAMETER) x 250m ROLL
	1376871	PVC	WIPER SEAL (FOR ASW59) x 100m
	1385580	PVC	DOUBLE SIDED GLAZING TAPE 12mm x 1.6mm 61m ROLL
	1385549		60403 12mm x 3.2mm DOUBLE SIDED GLAZING TAPE x 30.5m
	1385577		60405 12mm x 4.8mm DOUBLE SIDED GLAZING TAPE x 15.2m
	1385506		60406 12mm x 6.4mm DOUBLE SIDED GLAZING TAPE x 10.7m

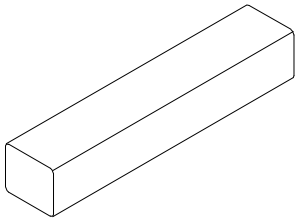
Fasteners

SCREWS			
PART #	HEAD	DESCRIPTION	LOCATION
1382644	SQUARE	10g x 1 (25mm) 304SS SQ #2 PAN S/TAP SCREW x 1000	FRAME
1382054	PHILLIPS	10g x 1 (25mm) SS PHIL PAN S/TAP SCREW x 500	
1382659	SQUARE	10g x 2 (51mm) 304SS SQ #2 CSK S/TAP SCREW x 1000	HUNTER EVO FRAME
1382021	PHILLIPS	10g x 2 (51mm) SS PHILLIPS CSK S/TAP x 200	
1382022	PHILLIPS	8g x 1/2 (13mm) SS PHILLIPS U/CUT SELF TAPPING x 1000	CHAINWINDER TO SASH
1382016	PHILLIPS	8g x 1 1/2 (40mm) SS PHILLIPS CSK S/TAP x 500	CHAINWINDER TO ADAPTOR / TRANSOM
1382014	PHILLIPS	8g x 1 (25mm) SS PHILLIPS CSK S/TAP x 500	CAM HANDLES

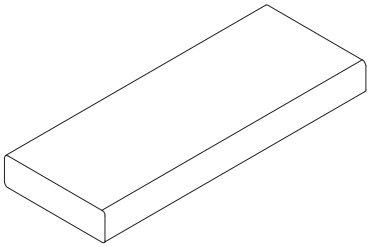
Frame Joint Gaskets

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

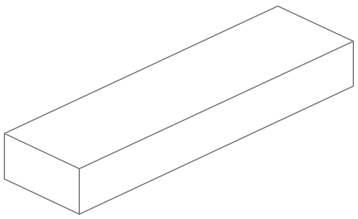
Accessories



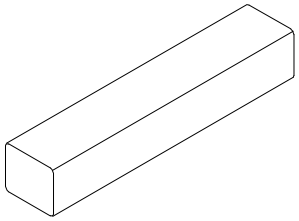
SETTING BLOCK 8 x 10 x 50mm BAG OF 100	
PART	1376768
FINISH	BLACK (034)
QTY	BAG OF 100



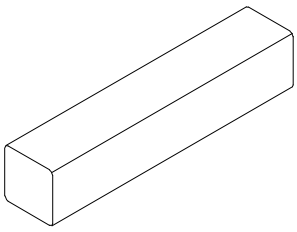
SETTING BLOCK 8 x 29 x 75mm BAG OF 50	
PART	1376771
FINISH	BLACK (034)
QTY	BAG OF 50



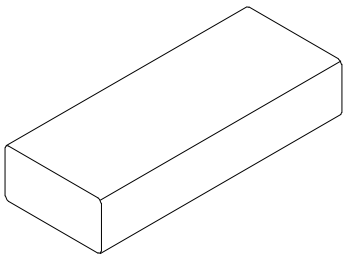
SETTING BLOCK 10 x 6 x 75mm BAG OF 100	
PART	1376775
FINISH	BLACK (034)
QTY	BAG OF 100



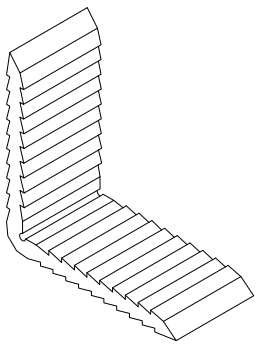
SETTING BLOCK 13 x 15 x 75mm BAG OF 50	
PART	1376730
FINISH	GREY (036)
QTY	BAG OF 50



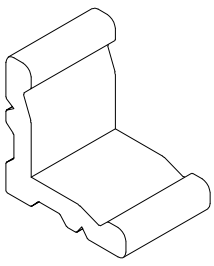
SETTING BLOCK 15 x 15 x 75mm BAG OF 50	
PART	1376735
FINISH	BLACK (034)
QTY	BAG OF 50



SETTING BLOCK 15 x 30 x 75mm BAG OF 50	
PART	1376733
FINISH	BLACK (034)
QTY	BAG OF 50

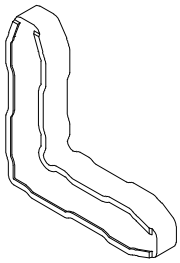


ASW8 CORNER STAKE (SUITED TO ASW4 & ASW1) (30.8mm lg)	
PART	1379018
FINISH	MILL (001)
QTY	EACH

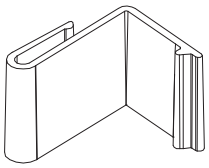


ASW88 CORNER STAKE (SUITED TO ASW44, ASW58, ASW59, ASW461) (31.5mm lg)	
PART	1378025
FINISH	MILL (001)
QTY	EACH

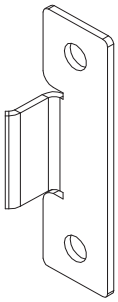
Accessories



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



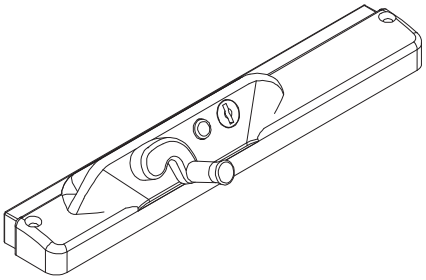
FS11 ALSPEC 11mm FLYSCREEN RETAINER CLIP	
PART	1309055
FINISH	TRANSPARENT (050)
QTY	EACH



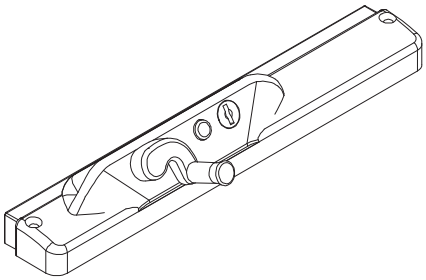
CONCEALED SNUBBER - EG *	
PART	1317060
FINISH	NOT SPECIFIED (099)
QTY	EACH

* Note:
Snubbers are required for **awning windows** greater than 900mm wide.
To be installed between the head & the sash, in the middle.
Snubbers are required for **casement windows** greater than 1300mm high.
To be installed between the jamb and sash, on the hinged side.

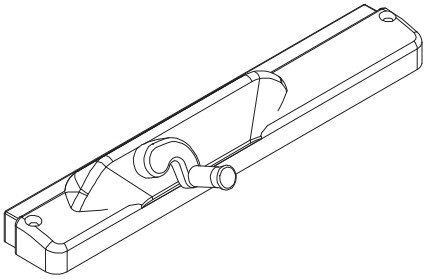
Chainwinders & Handles



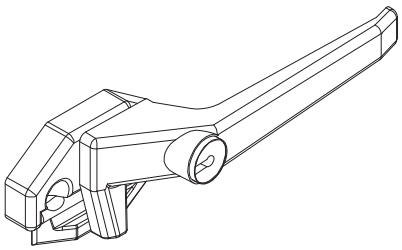
ALSPEC CHAINWINDER S/S LOCKING 300mm LEFT HAND KEY 32304		
PART / FINISH	1338065	BLACK (034)
	1338066	WHITE (0I5)
	1338067	SILVER PAINT (031)
QTY	EACH	



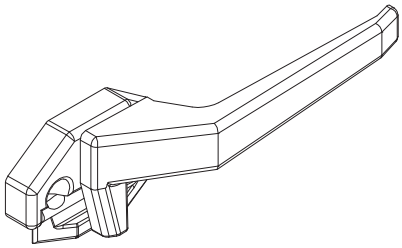
ALSPEC CHAINWINDER LOCKING 300mm LEFT HAND	
PART	1338061
FINISH	BLACK (034)
QTY	EACH



ALSPEC CHAINWINDER NON-LOCKING 300mm LEFT HAND	
PART	1338062
FINISH	BLACK (034)
QTY	EACH

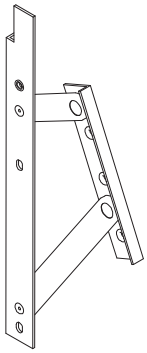


ALSPEC CAM HANDLE HI-PROFILE SELF LATCH - LOCKABLE		
PART	1377863 (RH)	1377862 (LH)
FINISH	BLACK (034)	
QTY	EACH	

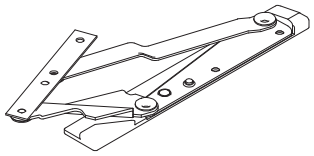


ALSPEC CAM HANDLE HI-PROFILE SELF LATCH		
PART	1377954 (RH)	1377953 (LH)
FINISH	BLACK (034)	
QTY	EACH	

Interlock Awnings & Casement Stays

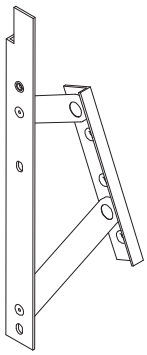


INTERLOCK AWNING STAYS		
CODE	**DESCRIPTION**	**QTY**
1378945	230 NF NON FRICTION INTERLOCK STAYS P1559B	PAIR
1378810	INTERLOCK 330A P1561 FRICTION STAY	PAIR
1378825	P1553B INTERLOCK 420HD A STAY	PAIR

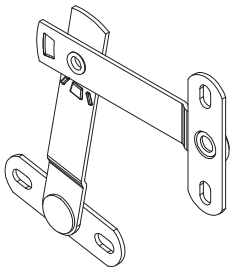


INTERLOCK CASEMENT STAYS		
CODE	**DESCRIPTION**	**QTY**
1345606	P1090 230mm 4BC INTERLOCK FRICTION STAY 25kg SASH	PAIR
1345607	P1090NF 230mm 4BC INTERLOCK NON FRICTION STAY 25kg SASH	PAIR
1345042	P1080 430mm 4BC INTERLOCK FRICTION STAY 40kg SASH	PAIR
1345610	P1080NF 430mm 4BC INTERLOCK NON FRICTION STAY 40kg SASH	PAIR

Alspec Awning & Casements Stays

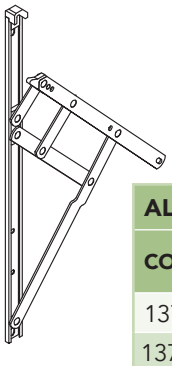


ALUMINIUM AWNING STAYS - FRICTION / NON FRICTION		
CODE	**DESCRIPTION**	**QTY**
1377950	ALUMINIUM 235mm NON FRICTION AWNING STAY	PAIR
1377951	ALUMINIUM 235mm FRICTION AWNING STAY	PAIR

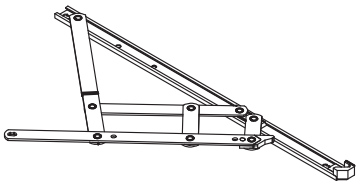


RESTRICTOR STAYS		
CODE	**DESCRIPTION**	**QTY**
1377947	ALSPEC RESTRICTOR STAY SS 13mm LIGHT DUTY	PAIR
1377948	ALSPEC RESTRICTOR STAY SS 16mm HEAVY DUTY	PAIR
1377949	ALSPEC RESTRICTOR STAY & KEY SS 16mm HEAVY DUTY	PAIR

Alspec Awning & Casements Stays



ALSPEC STAINLESS STEEL AWNING STAYS					
CODE	**DESCRIPTION**	**MAX SASH WEIGHT**	**MAX SASH HEIGHT**	**OPENING ANGLE**	**QTY**
1377864	ALSPEC AS8TH SS TOP HUNG STAY 13mm x 214mm	12kg	350mm	70°	PAIR
1377865	ALSPEC AS10TH SS TOP HUNG STAY 13mm x 270mm	16kg	400mm	88°	PAIR
1377866	ALSPEC AS12TH SS TOP HUNG STAY 13mm x 310mm	20kg	550mm	87°	PAIR
1377870	ALSPEC AS16TH SS TOP HUNG STAY 13mm x 412mm	24kg	750mm	87°	PAIR
1377871	ALSPEC AS20TH SS TOP HUNG STAY 13mm x 512mm	28kg	1000mm	40°	PAIR
1377872	ALSPEC AS24TH SS TOP HUNG STAY 13mm x 615mm	35kg	1100mm	40°	PAIR



ALSPEC STAINLESS STEEL CASEMENT STAYS					
CODE	**DESCRIPTION**	**MAX SASH WEIGHT**	**MAX SASH HEIGHT**	**OPENING ANGLE**	**QTY**
1377941	ALSPEC AS12SH SS SIDE HUNG STAY 14mm x 310mm	24kg	650mm	87°	PAIR
1377942	ALSPEC AS16SH SS SIDE HUNG STAY 14mm x 412mm	30kg	800mm	87°	PAIR

Silicone

100% NEUTRAL CURE SILICONE

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

100% MATTE NEUTRAL CURE SILIICONE

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

41 CLADDING SILICONE

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

WET AREA SILICONE

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

HYBRID PU ADHESIVE SEALANT

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

20 ACETIC CURE SILICONE

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

D60 SILICONE

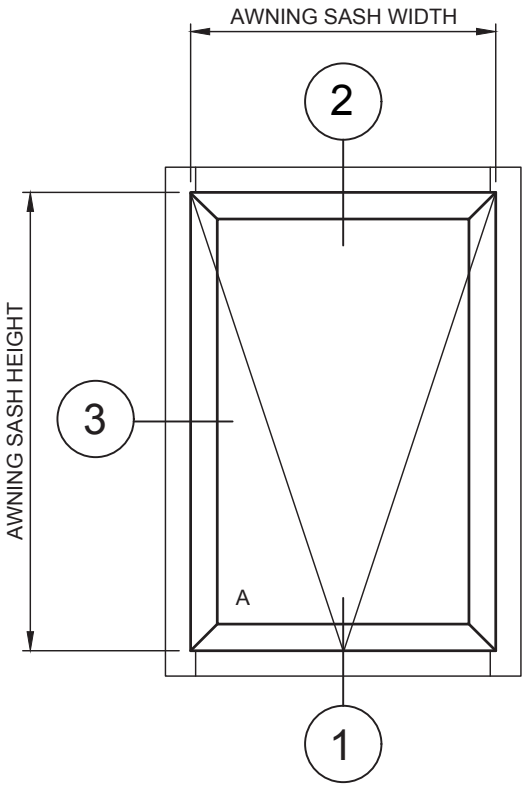
- Premium 100% silicone
- UV Stable
- 2-5 minute skin time
- Flexible + 25%
- No slump

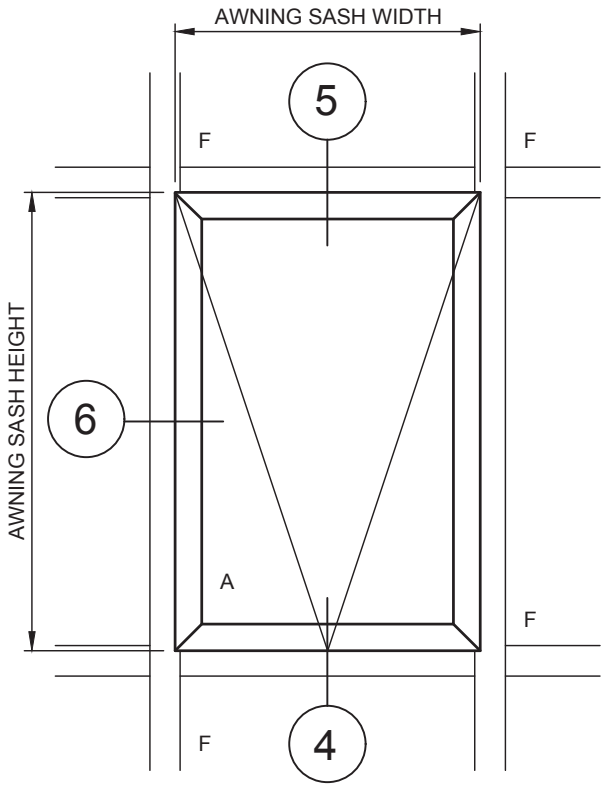
*For more information on silicones, please refer to Alspec Silicone Brochure.

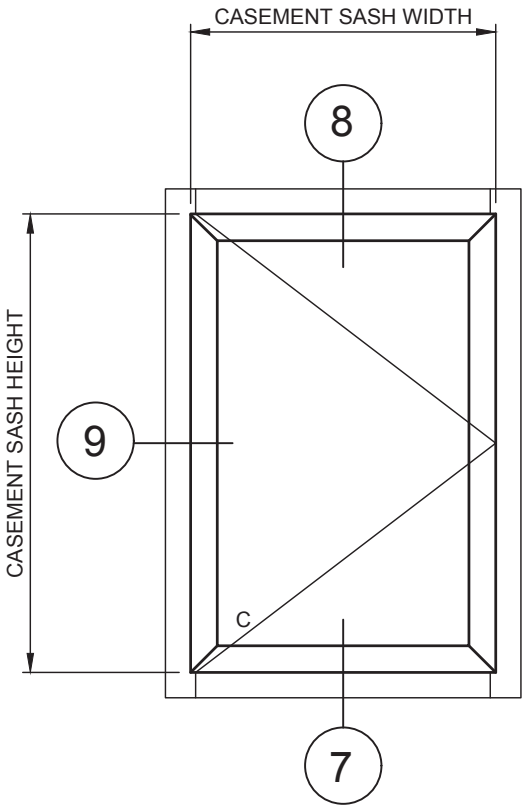
Silicone Product Codes

Product Category	Item No.	Alspec Part No. 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





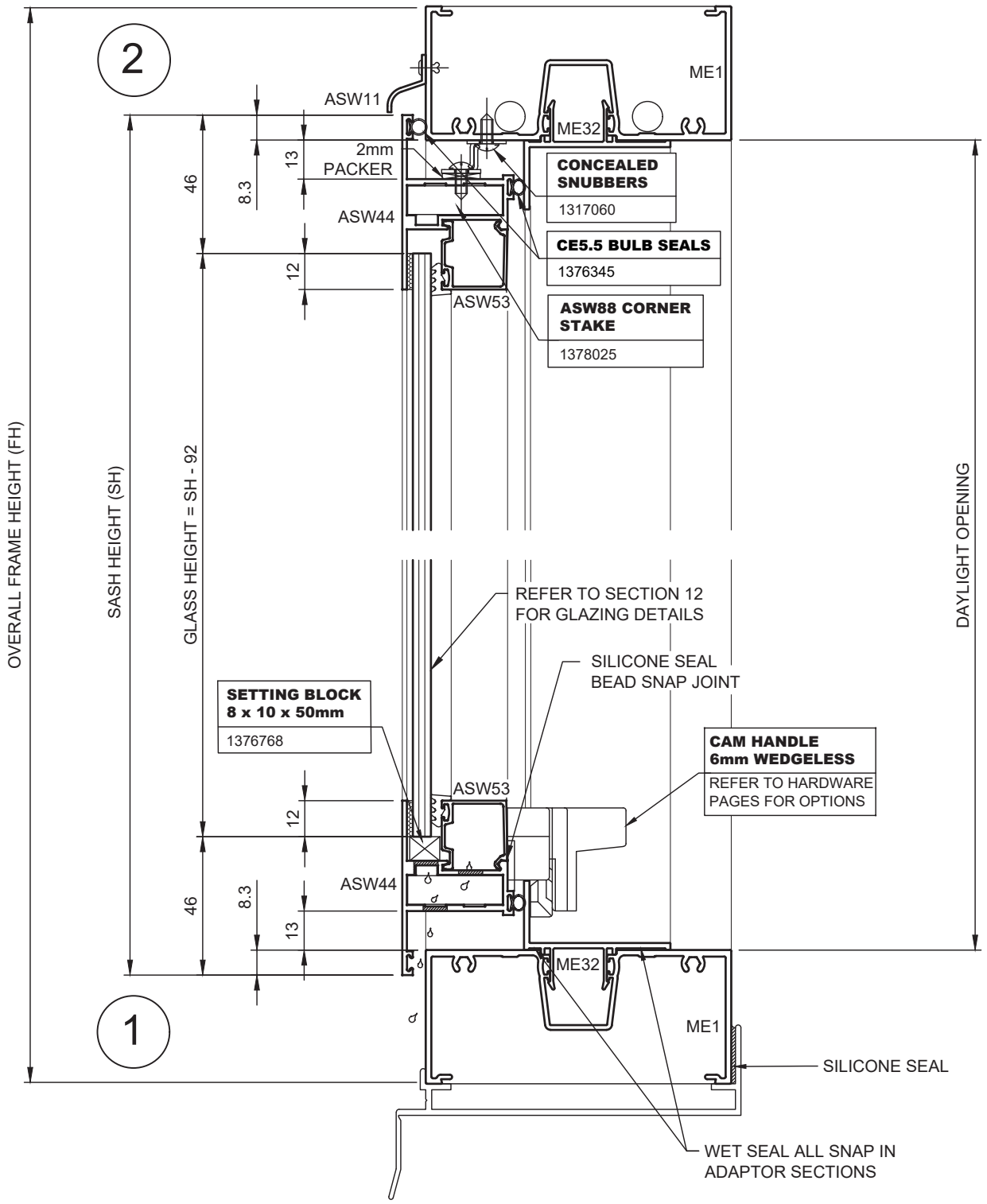


SEE PAGE 12.6 FOR GLASS SETTING BLOCK AND LOCATION BLOCK POSITIONS

Typical McArthur Evo Head & Sill Details ASW44 Awning

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

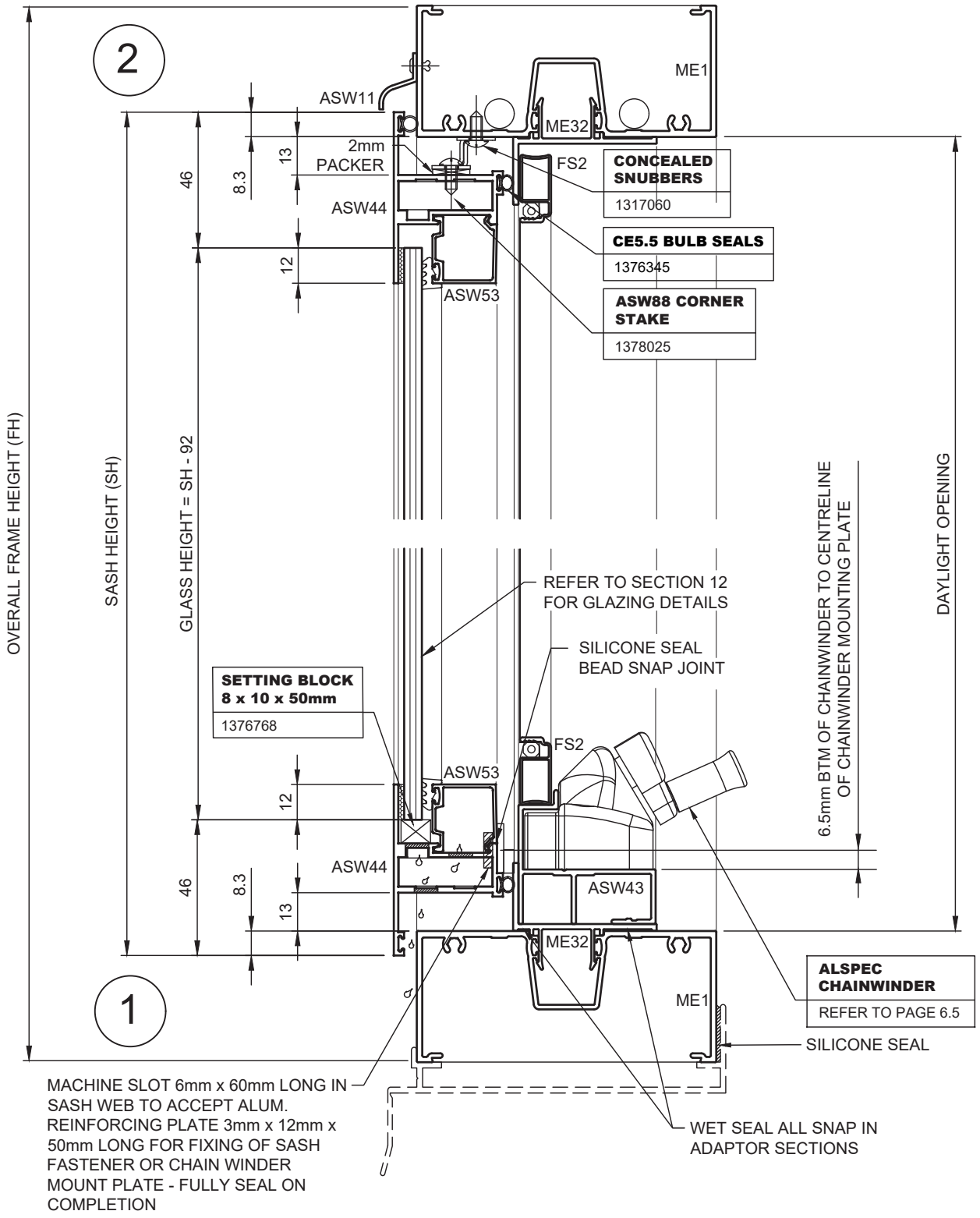
WELD ALL BULB SEAL MITRE JOINTS



Typical McArthur Evo Head & Sill Details ASW44 Awning

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

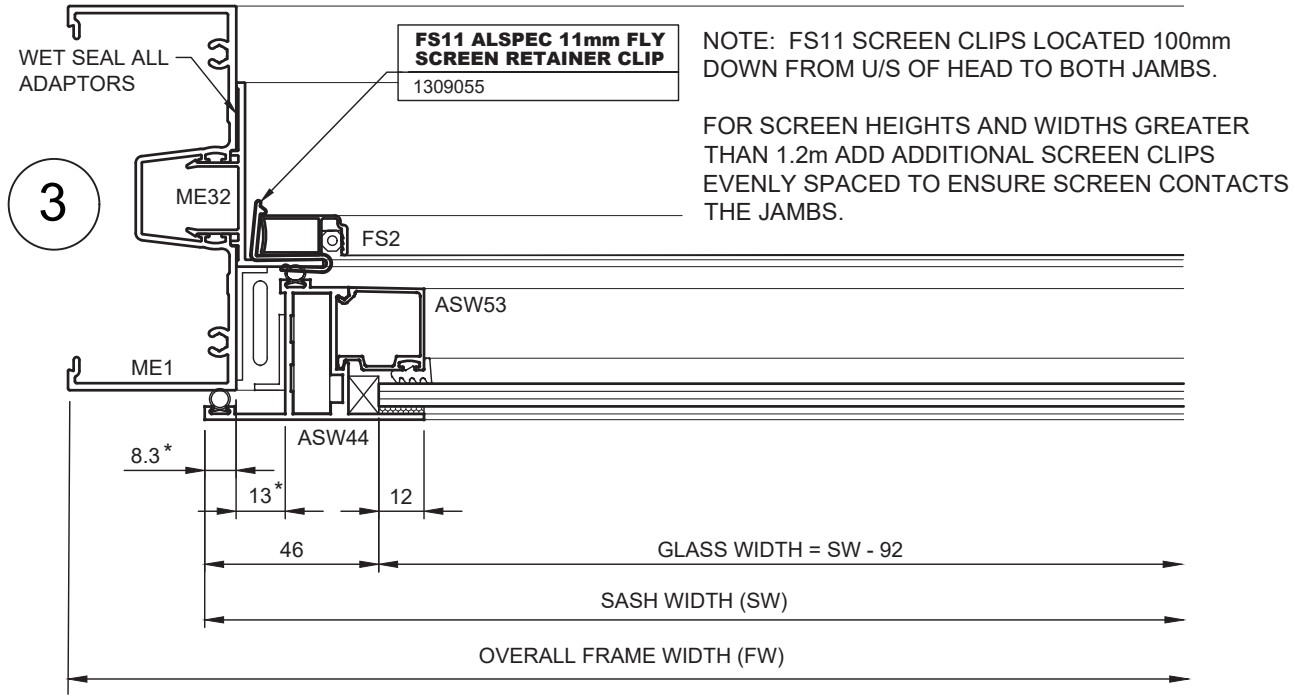
WELD ALL BULB SEAL MITRE JOINTS

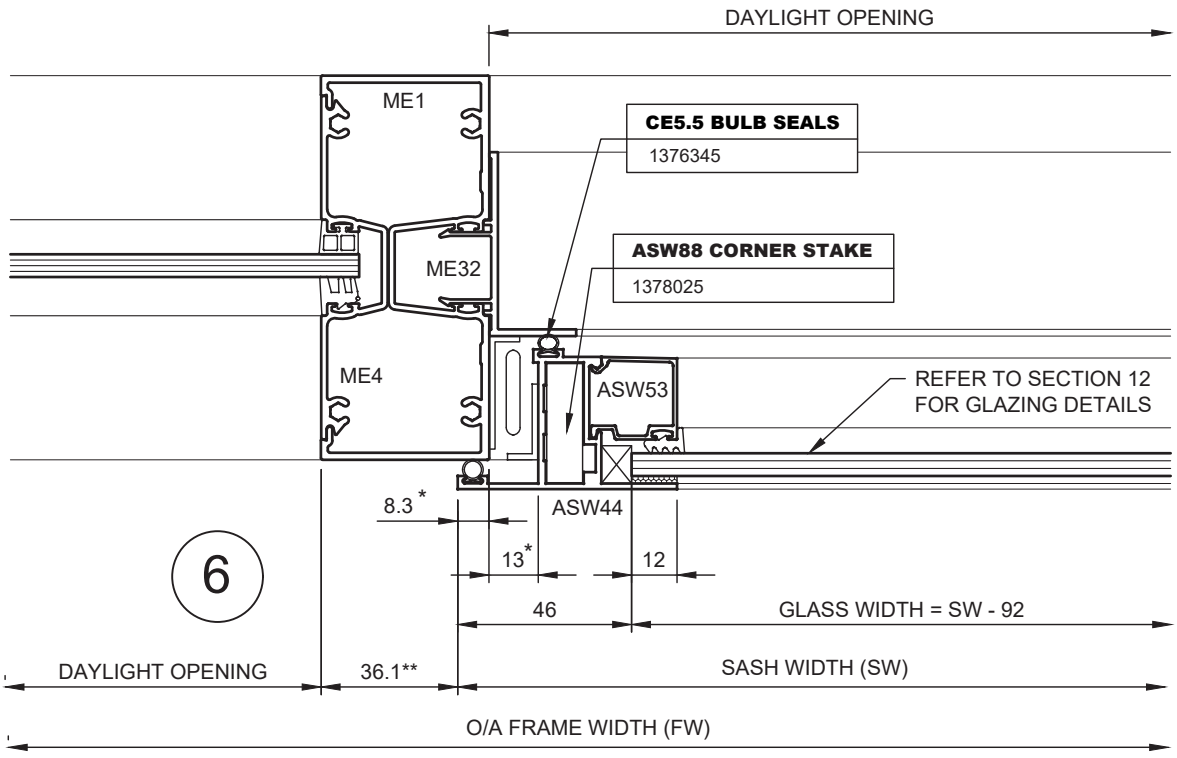


Typical McArthur Evo Jamb & Sidelight Details ASW44 Awning

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

WELD ALL BULB SEAL MITRE JOINTS





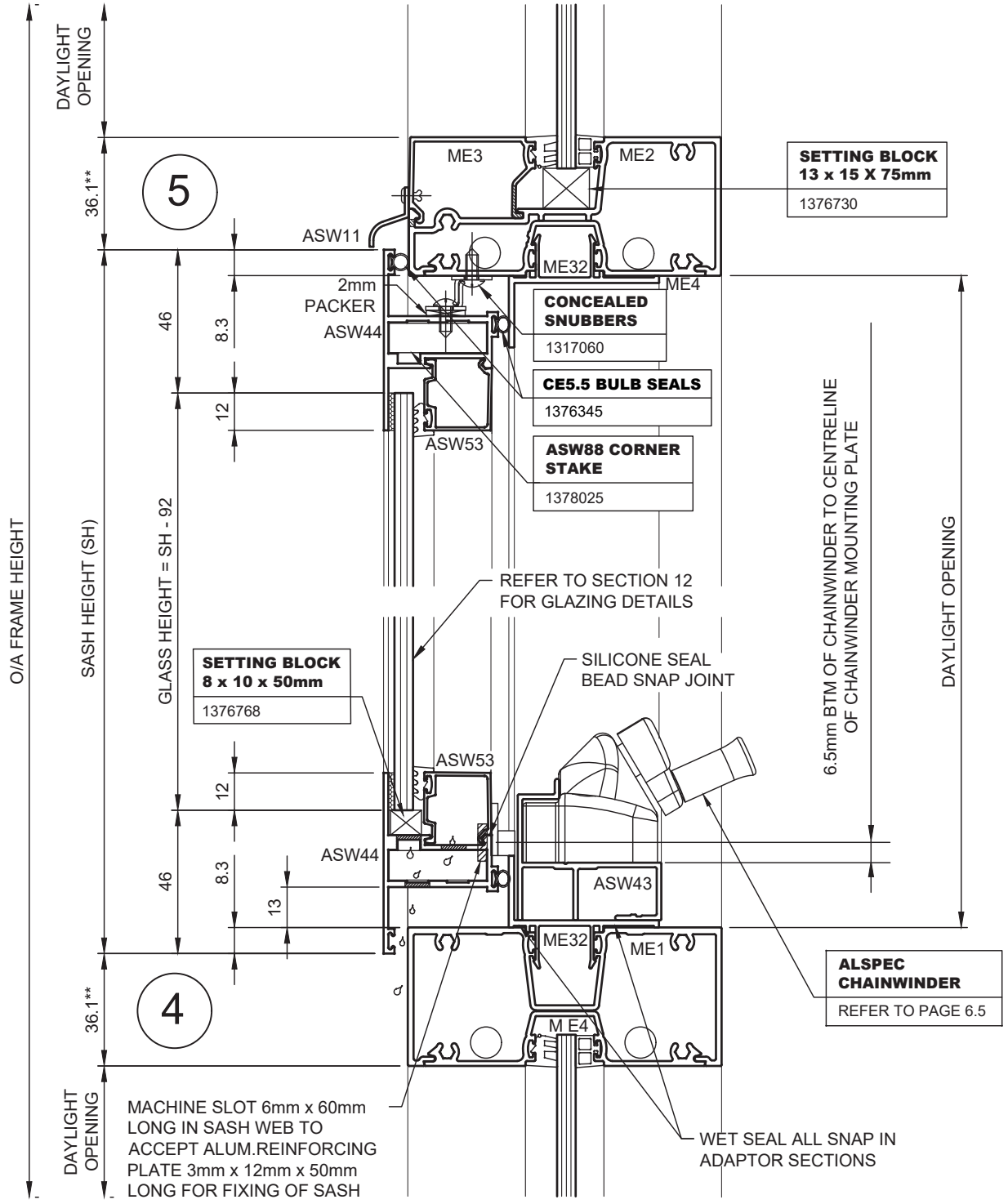
* VARIES DEPENDING ON FRICTION STAY SPECIFIED

** VARIES DEPENDING ON FRAMING SYSTEM SPECIFIED

Typical McArthur Evo Transom Details ASW44 Awning

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

WELD ALL BULB SEAL MITRE JOINTS

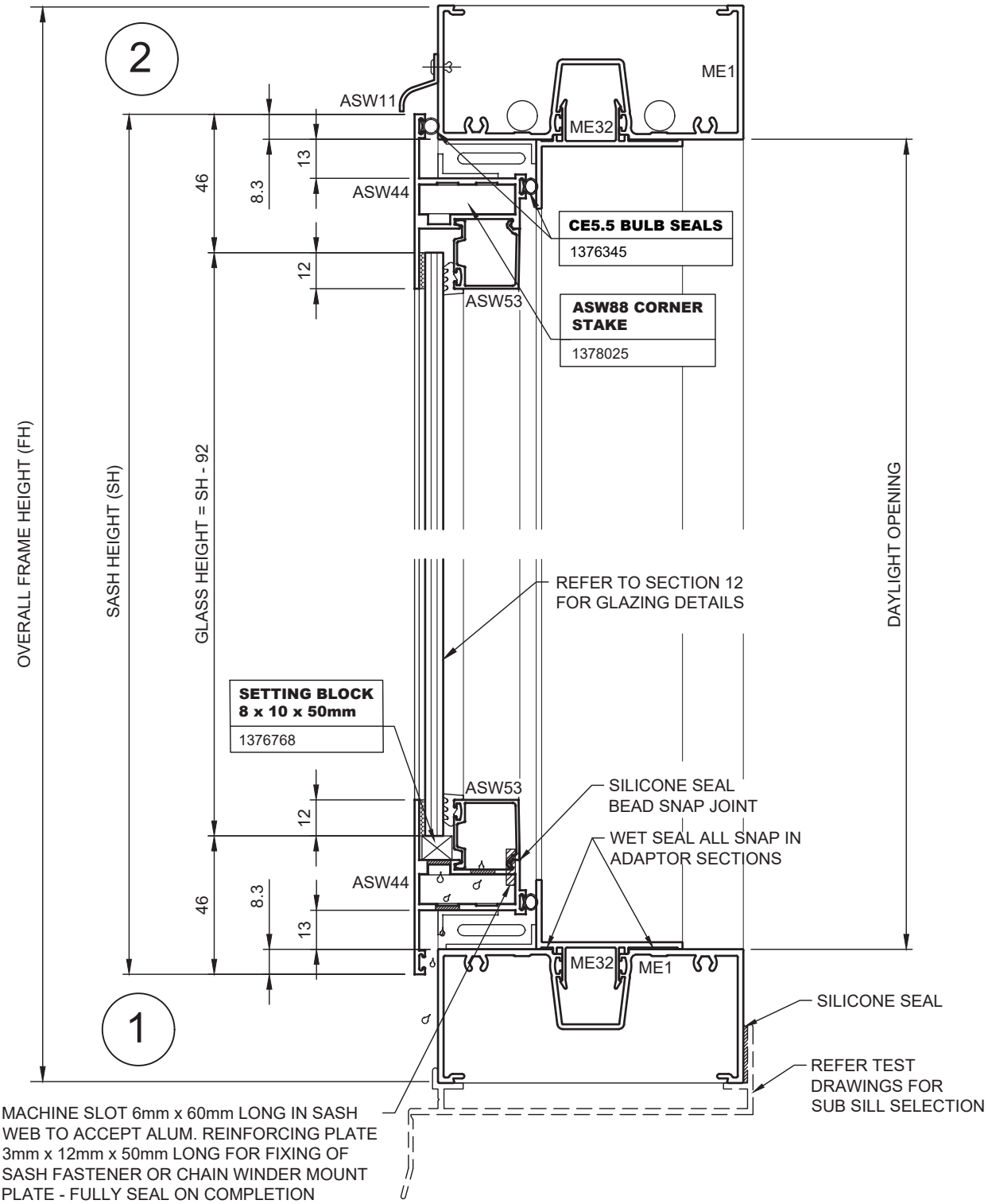


** VARIES DEPENDING ON FRAMING SYSTEM SPECIFIED

Typical McArthur Evo Head & Sill Details ASW44 Casement

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

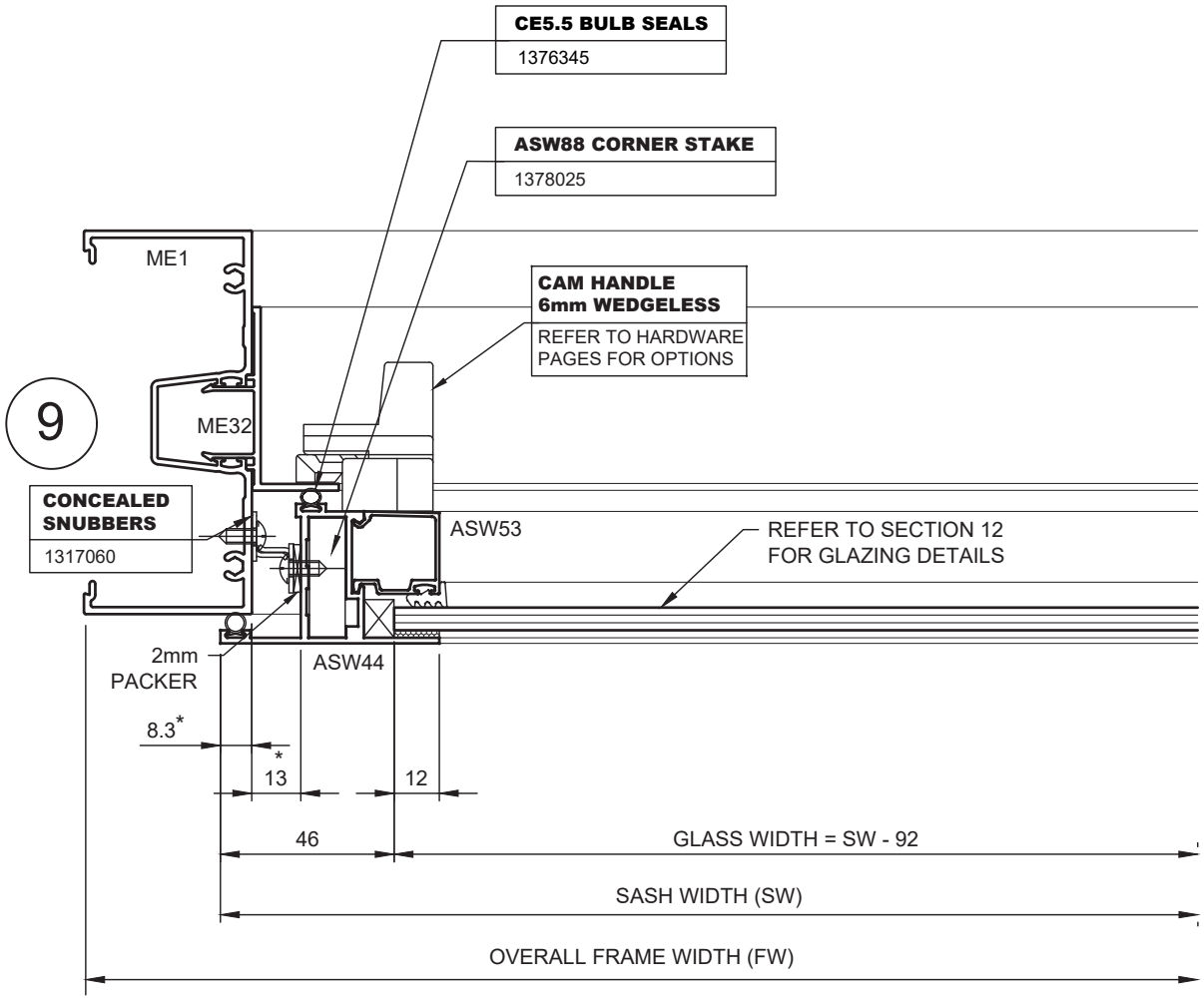
WELD ALL BULB SEAL MITRE JOINTS



Typical McArthur Evo Jamb Detail ASW44 Casement

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

WELD ALL BULB SEAL MITRE JOINTS

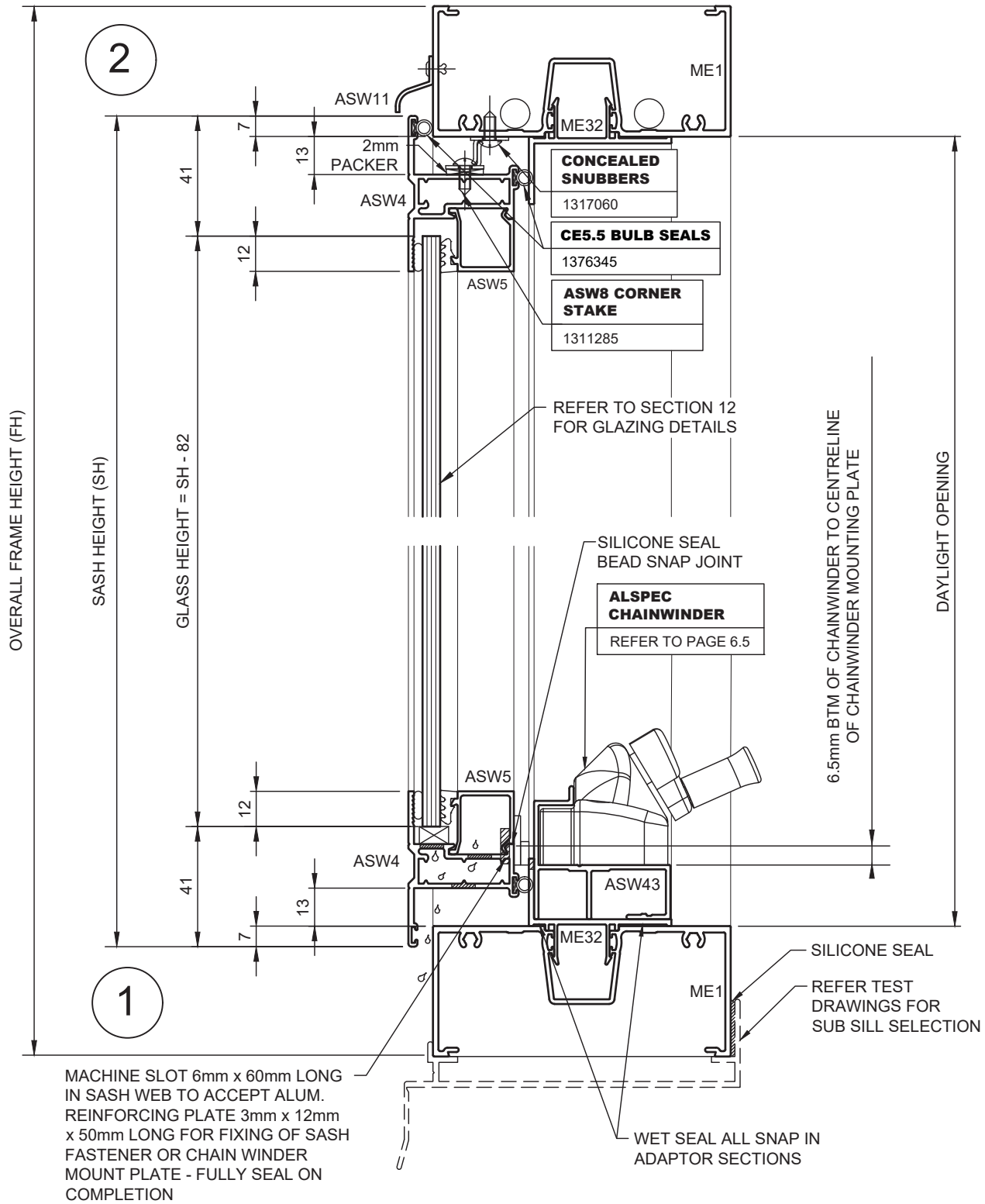


* VARIES DEPENDING ON FRICTION STAY SPECIFIED

Typical McArthur Evo Head & Sill Details ASW4 Awning

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

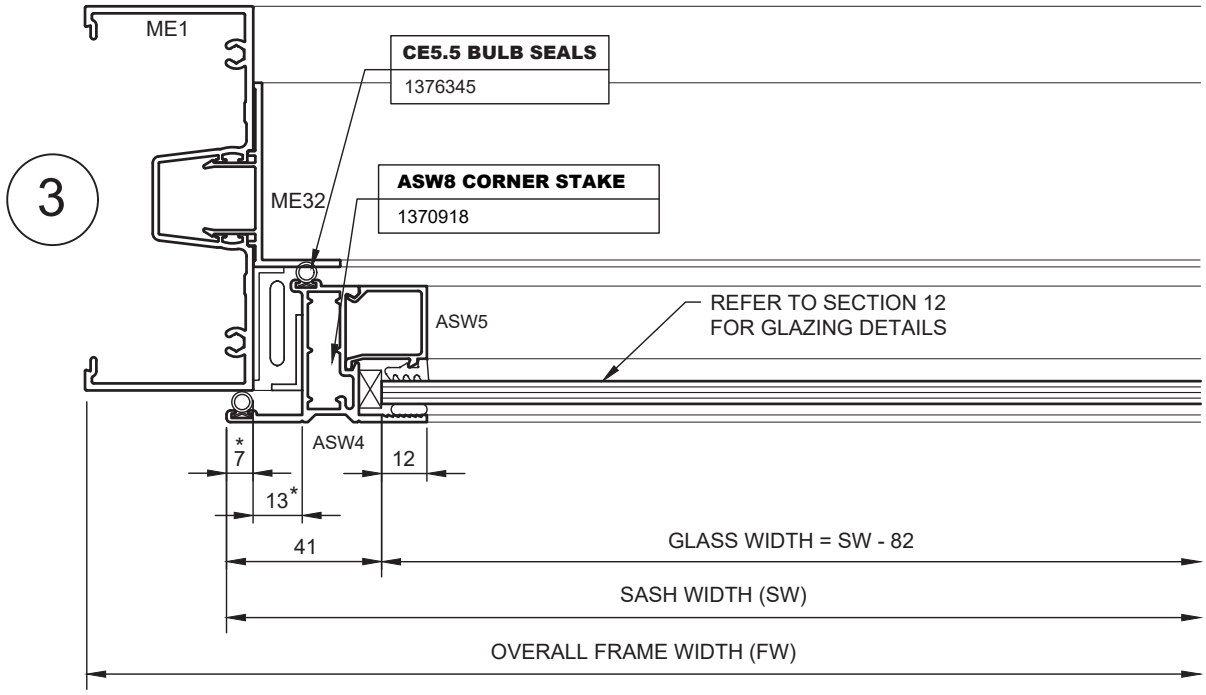
WELD ALL BULB SEAL MITRE JOINTS

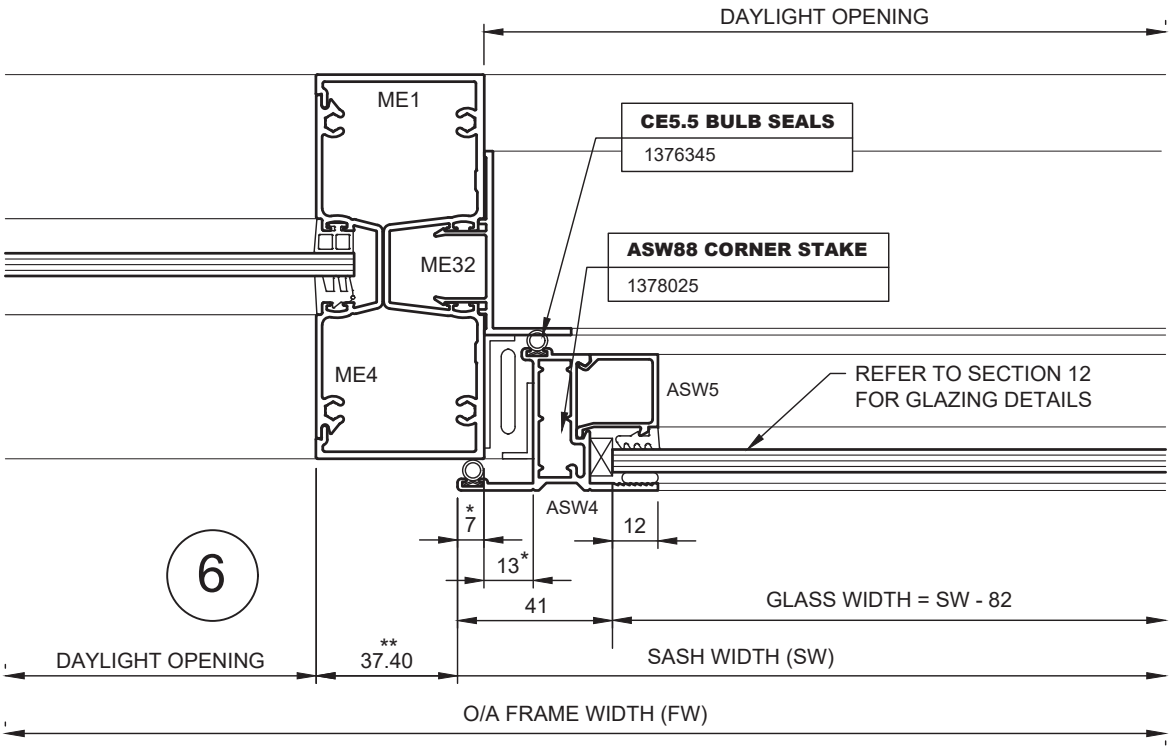


Typical McArthur Evo Jamb & Sidelight Details ASW4 Awning

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

WELD ALL BULB SEAL MITRE JOINTS



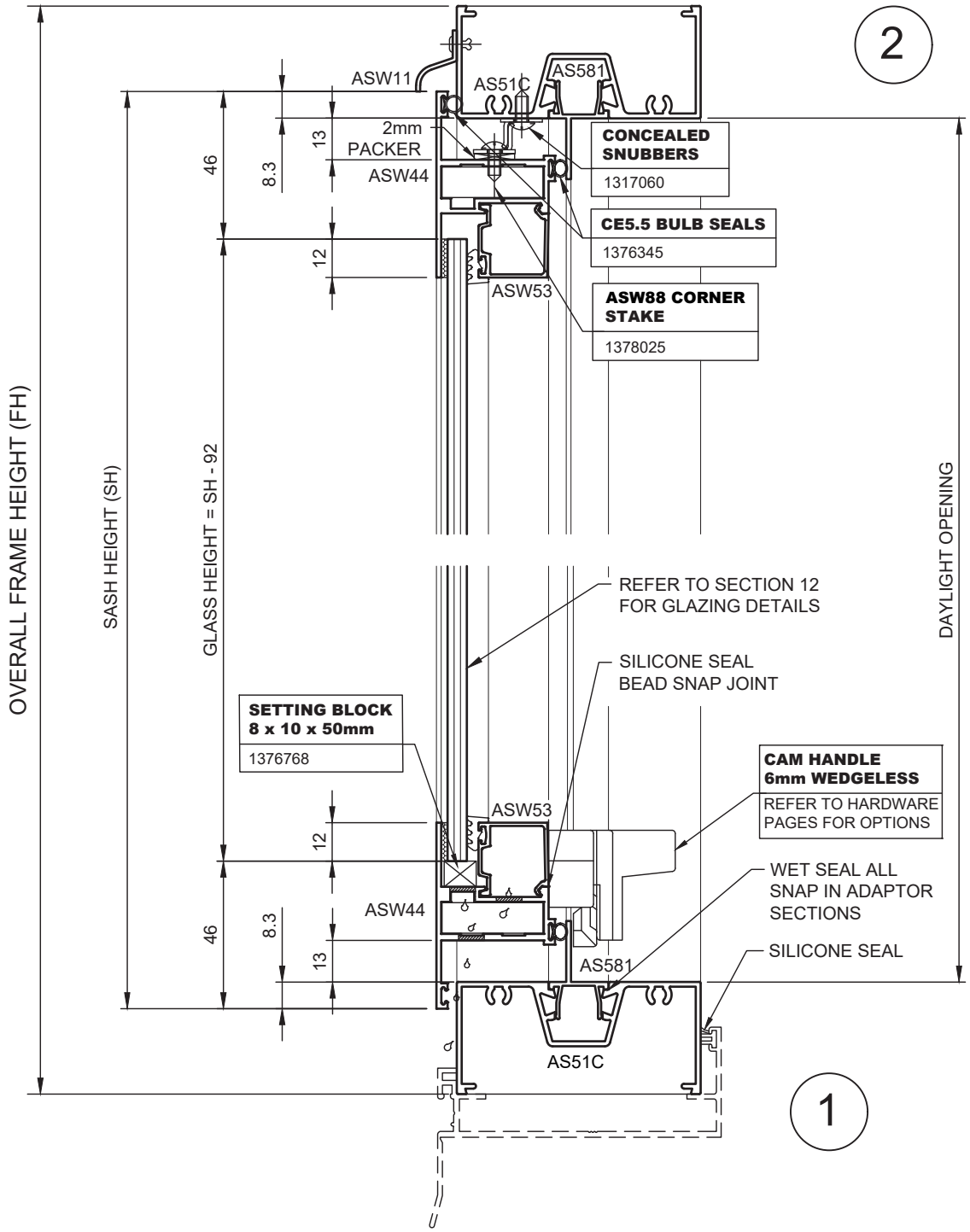


* VARIES DEPENDING ON FRICTION STAY SPECIFIED
** VARIES DEPENDING ON FRAMING SYSTEM SPECIFIED

Typical Derwent Frame Head & Sill Details ASW44 Awning

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

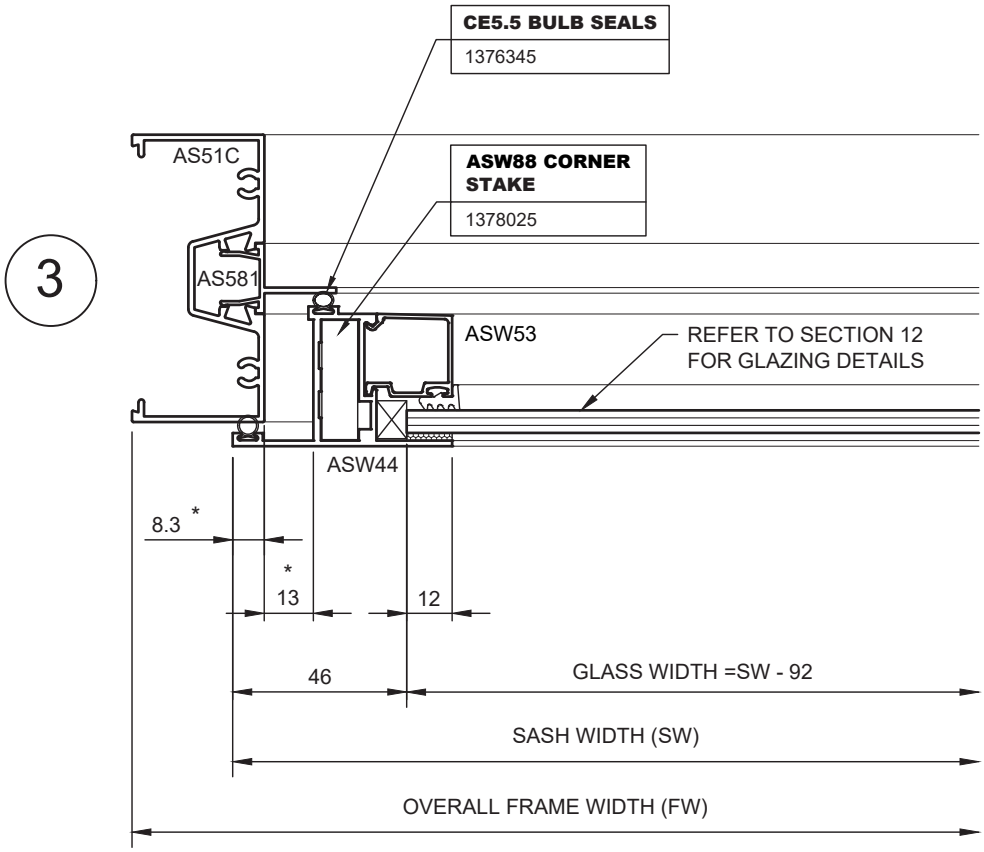
WELD ALL BULB SEAL MITRE JOINTS



Typical Derwent Frame Jamb Detail ASW44 Awning

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

WELD ALL BULB SEAL MITRE JOINTS

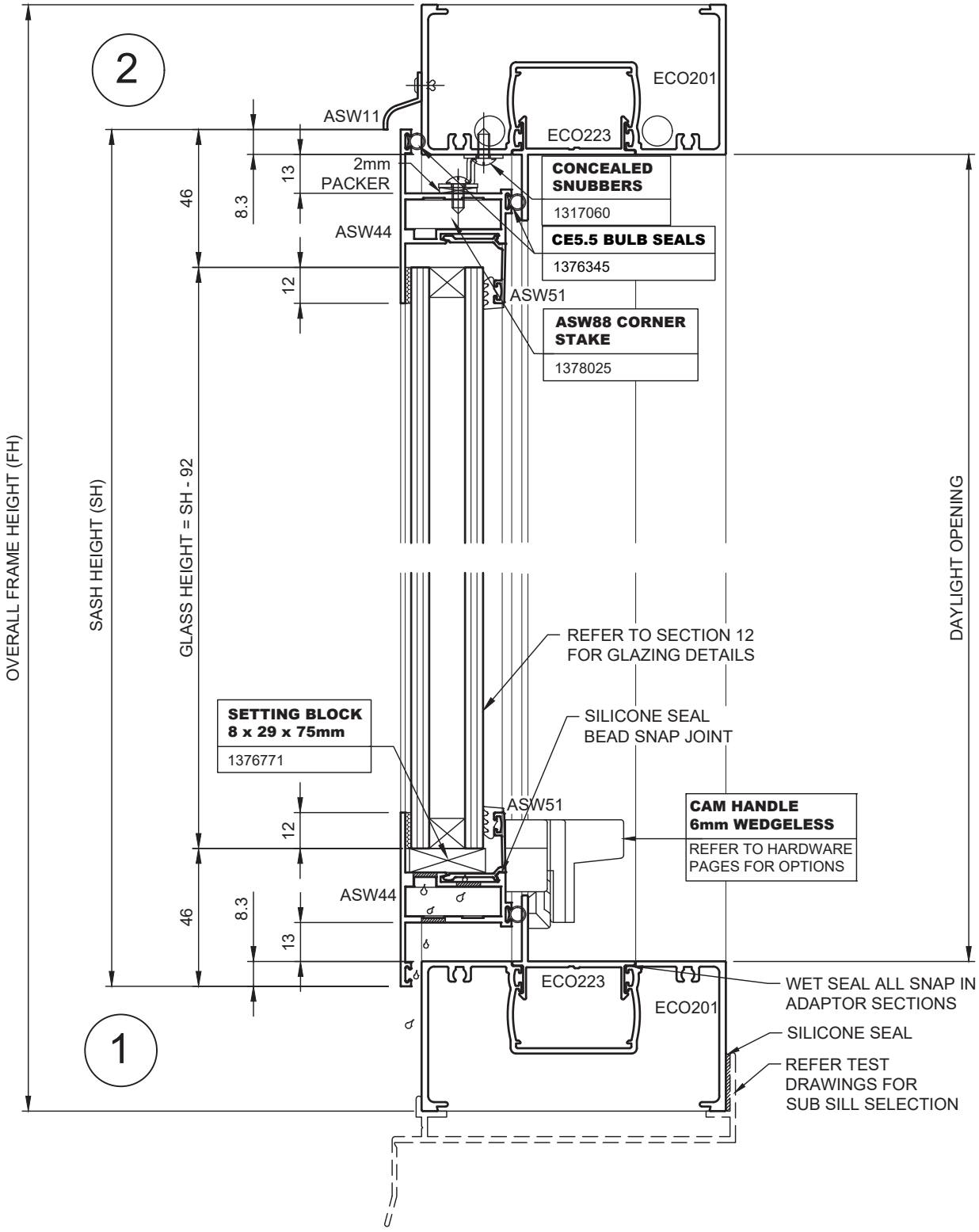


* VARIES DEPENDING ON FRICTION STAY SPECIFIED

Typical ecoFRAMEplus Head & Sill Details ASW44 Awning

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

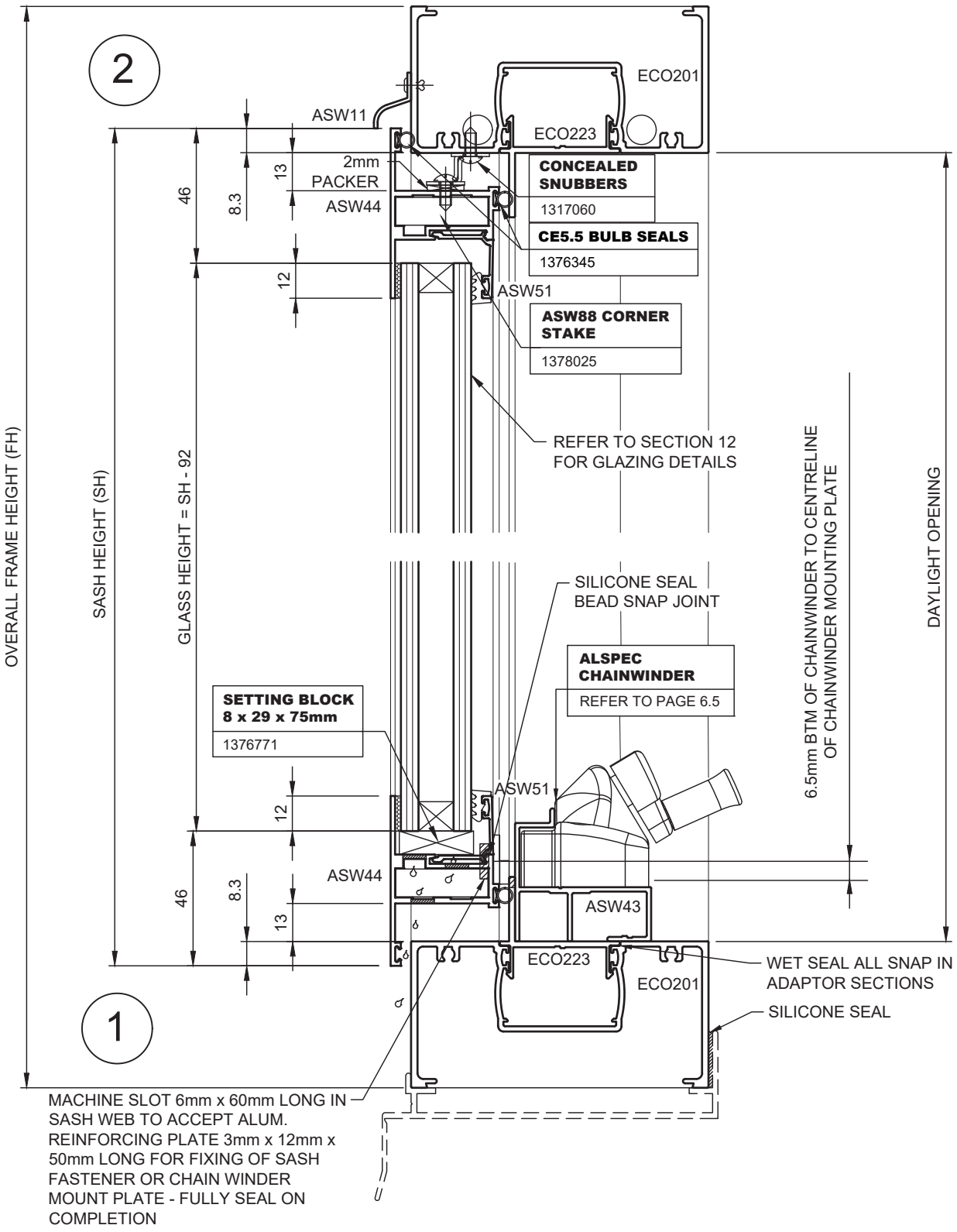
WELD ALL BULB SEAL MITRE JOINTS



Typical ecoFRAMEplus Head & Sill Details ASW44 Awning

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

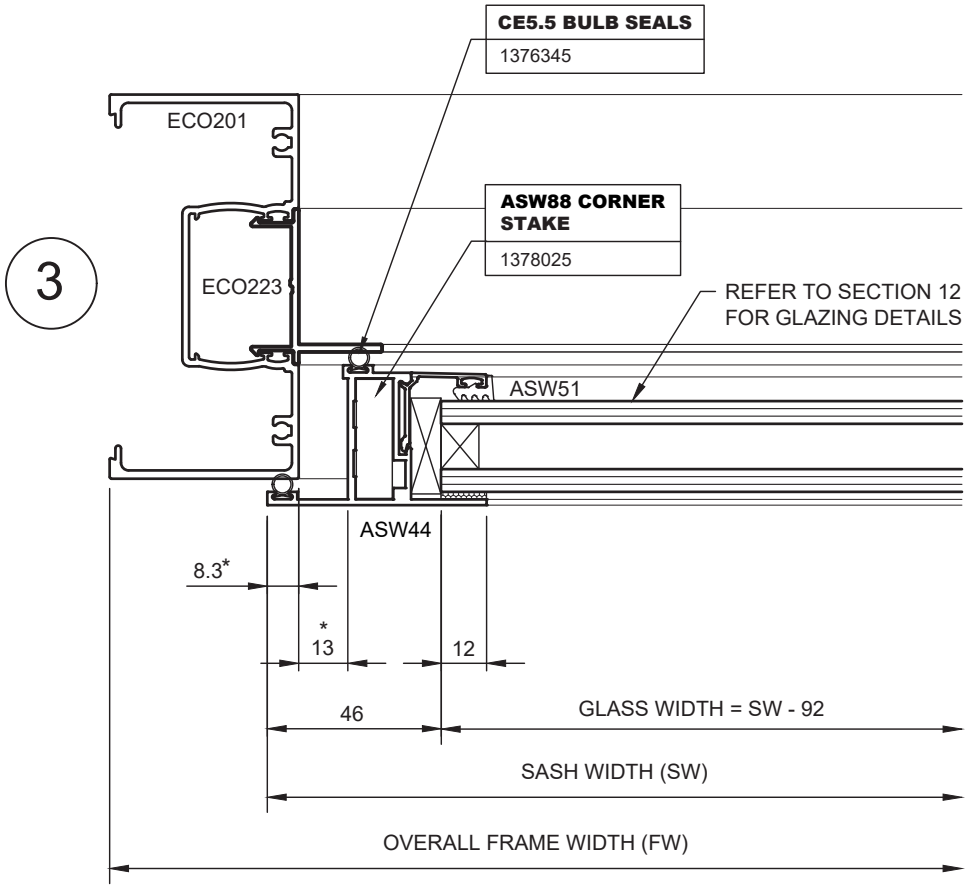
WELD ALL BULB SEAL MITRE JOINTS



Typical ecoFRAMEplus Jamb Detail ASW44 Awning

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

WELD ALL BULB SEAL MITRE JOINTS

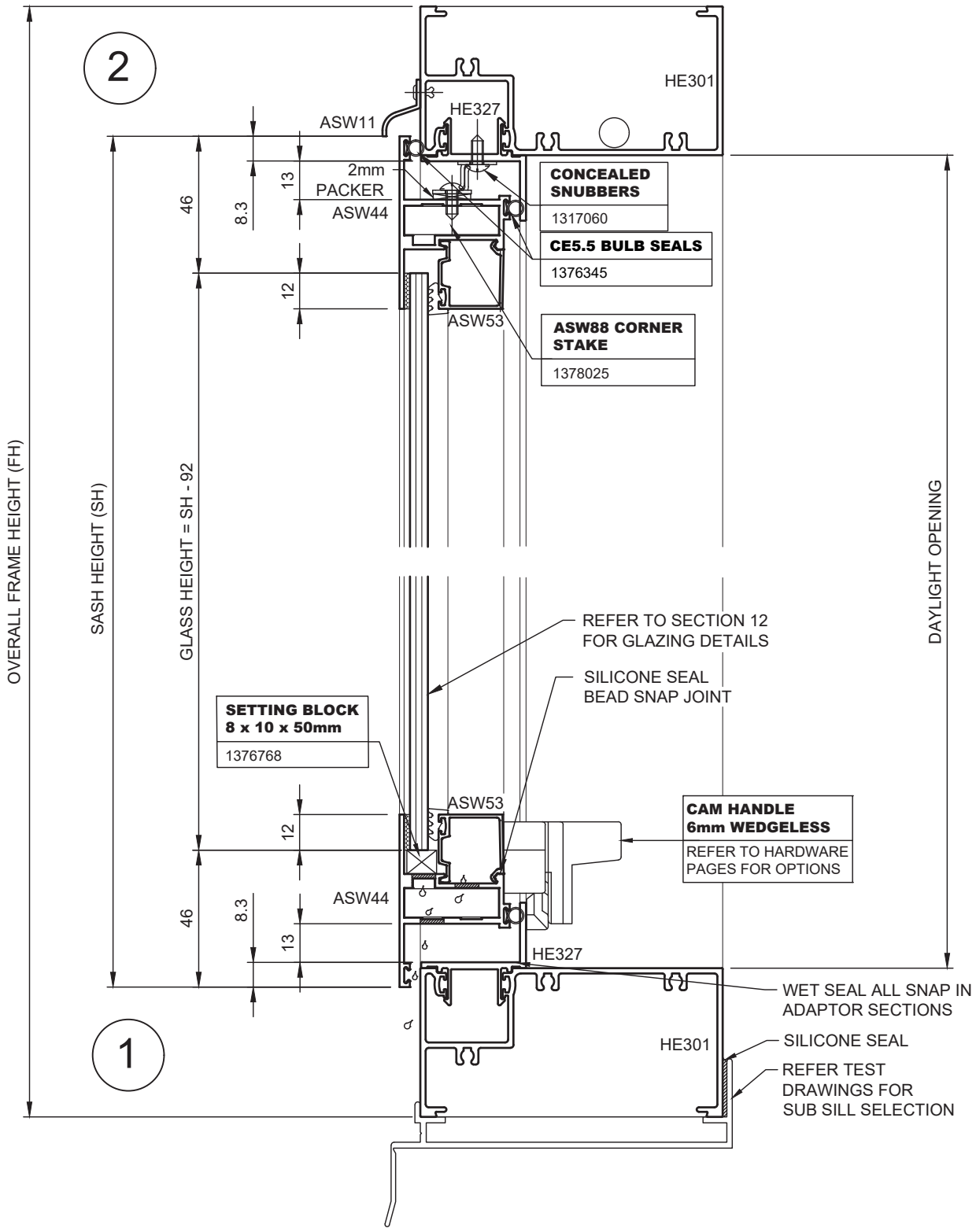


* VARIES DEPENDING ON FRICTION STAY SPECIFIED

Typical Hunter Evo SG Head & Sill Details ASW44 Awning

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

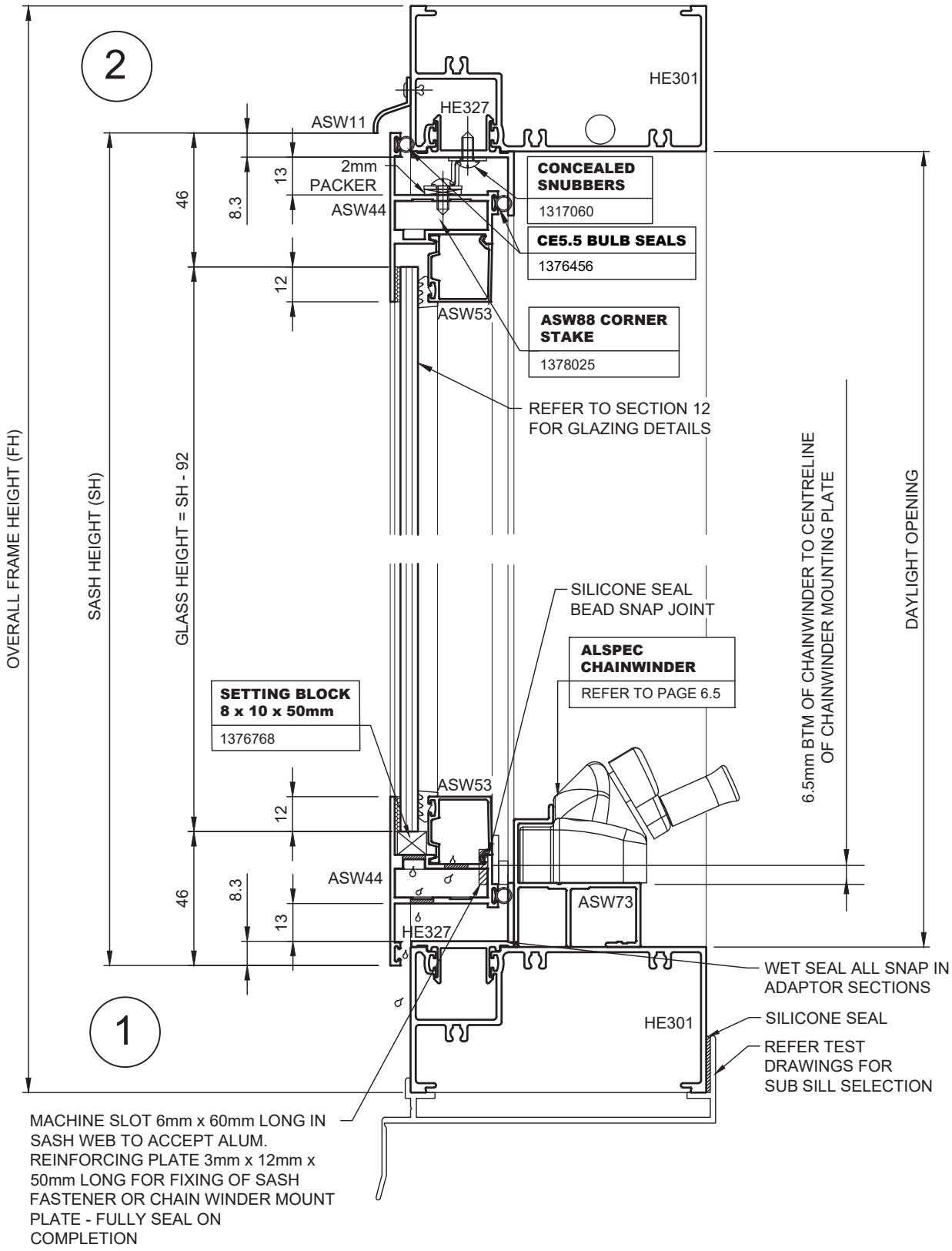
WELD ALL BULB SEAL MITRE JOINTS



Typical Hunter Evo SG Head & Sill Details ASW44 Awning

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

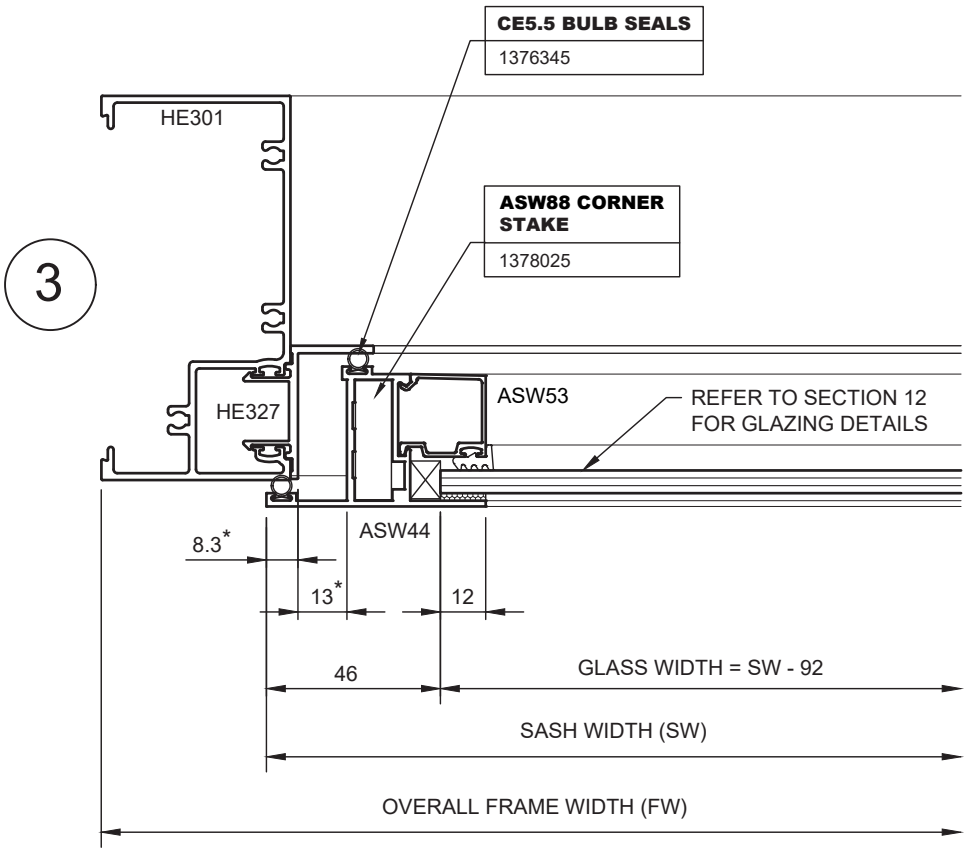
WELD ALL BULB SEAL MITRE JOINTS



Typical Hunter Evo SG Jamb Detail ASW44 Awning

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

WELD ALL BULB SEAL MITRE JOINTS

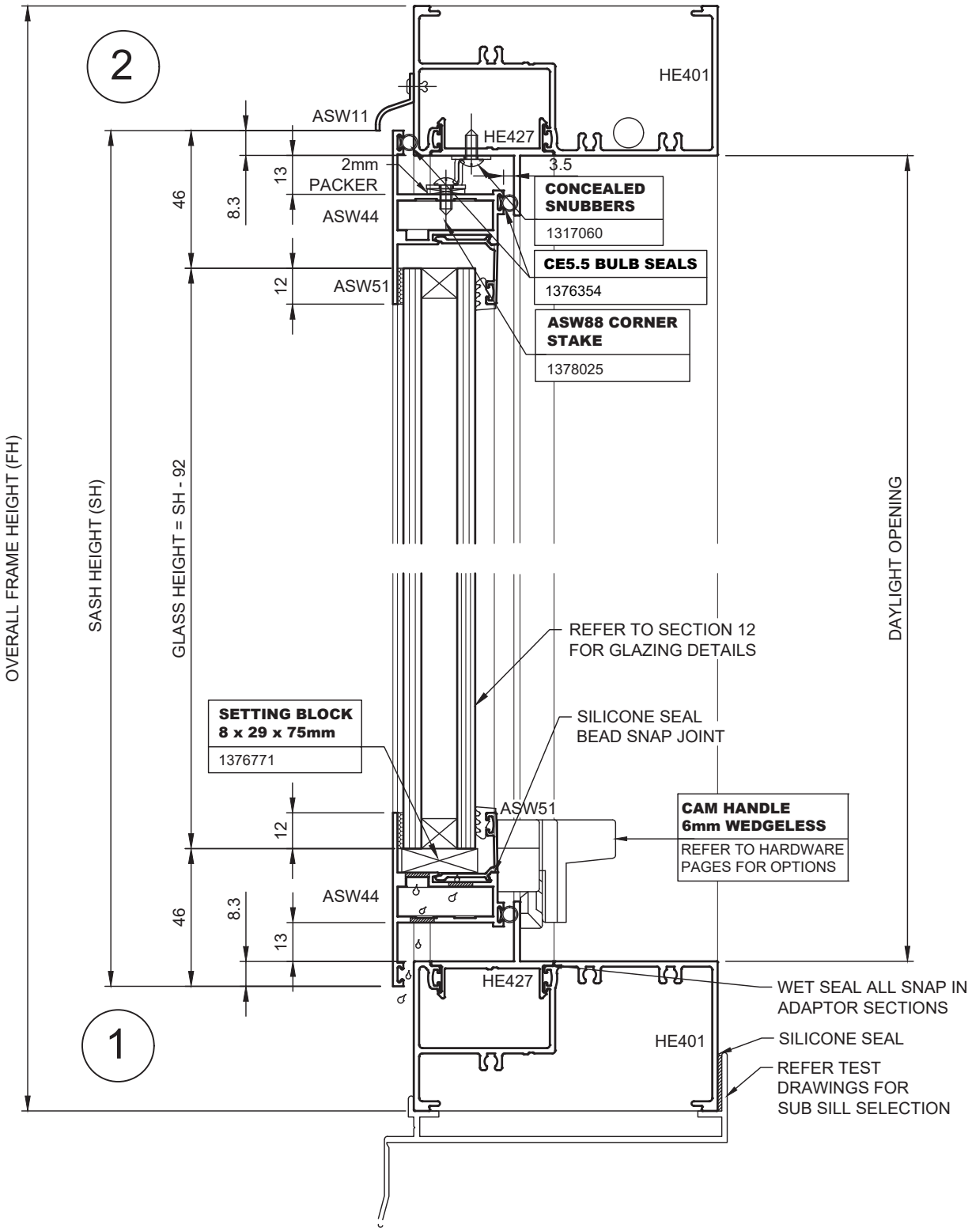


* VARIES DEPENDING ON FRICTION STAY SPECIFIED

Typical Hunter Evo DG Head & Sill Details ASW44 Awning

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

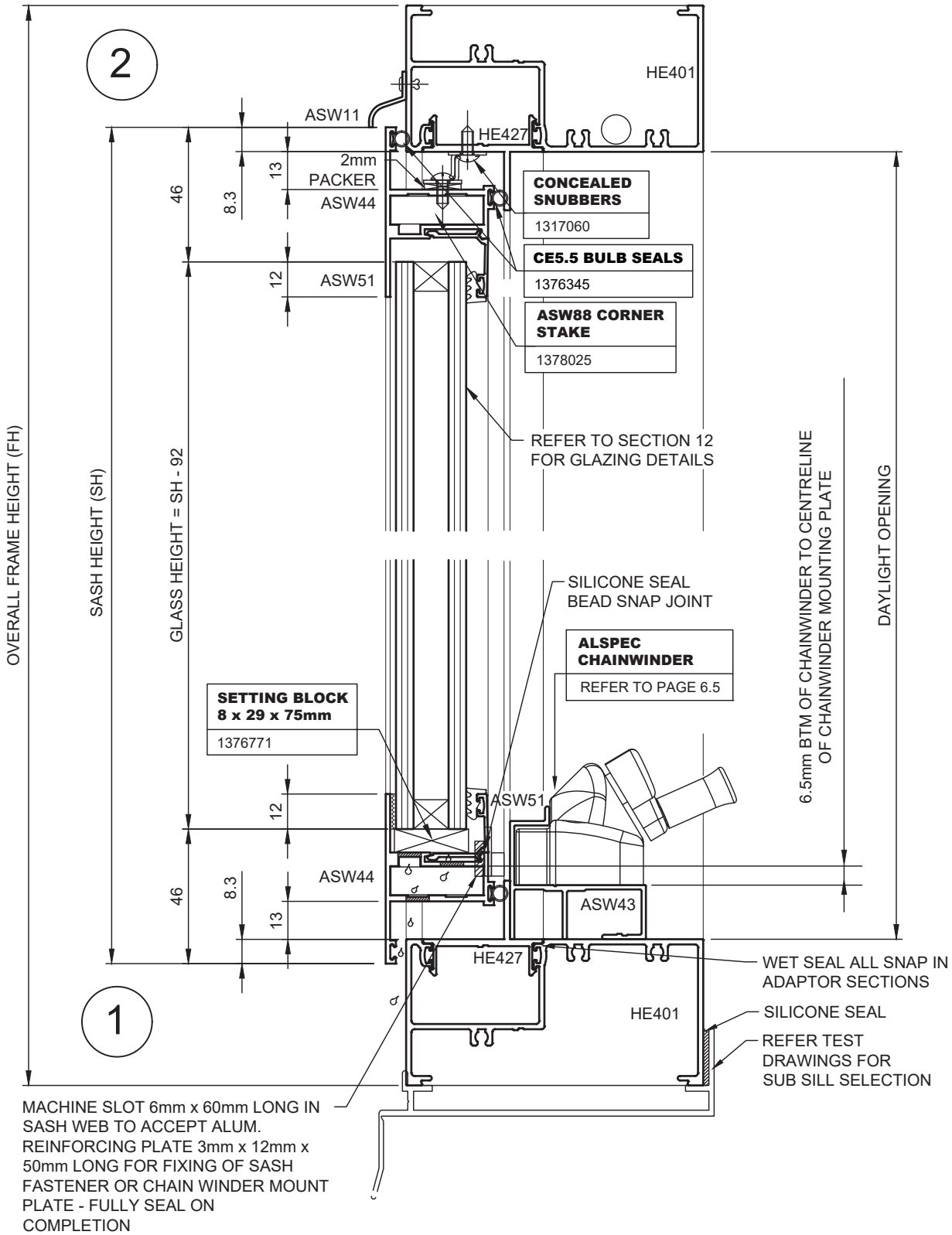
WELD ALL BULB SEAL MITRE JOINTS



Typical Hunter Evo DG Head & Sill Deatils ASW44 Awning

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

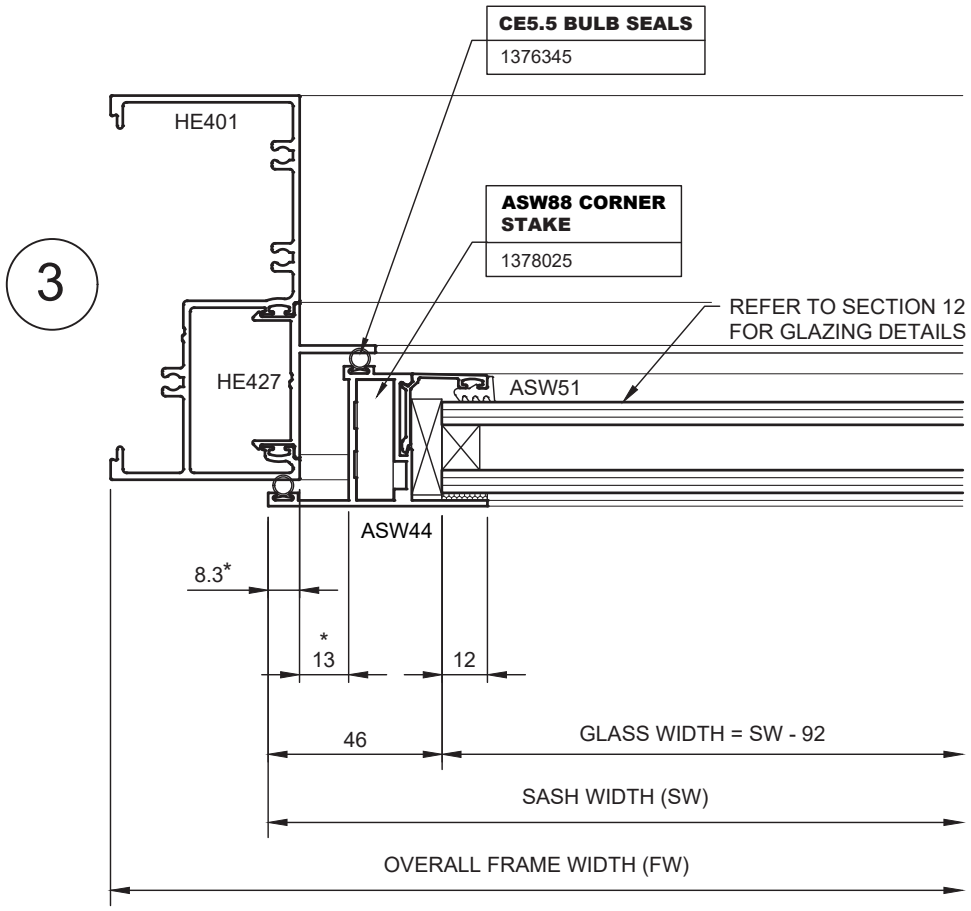
WELD ALL BULB SEAL MITRE JOINTS



Typical Hunter Evo DG Jamb Detail ASW44 Awning

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

WELD ALL BULB SEAL MITRE JOINTS

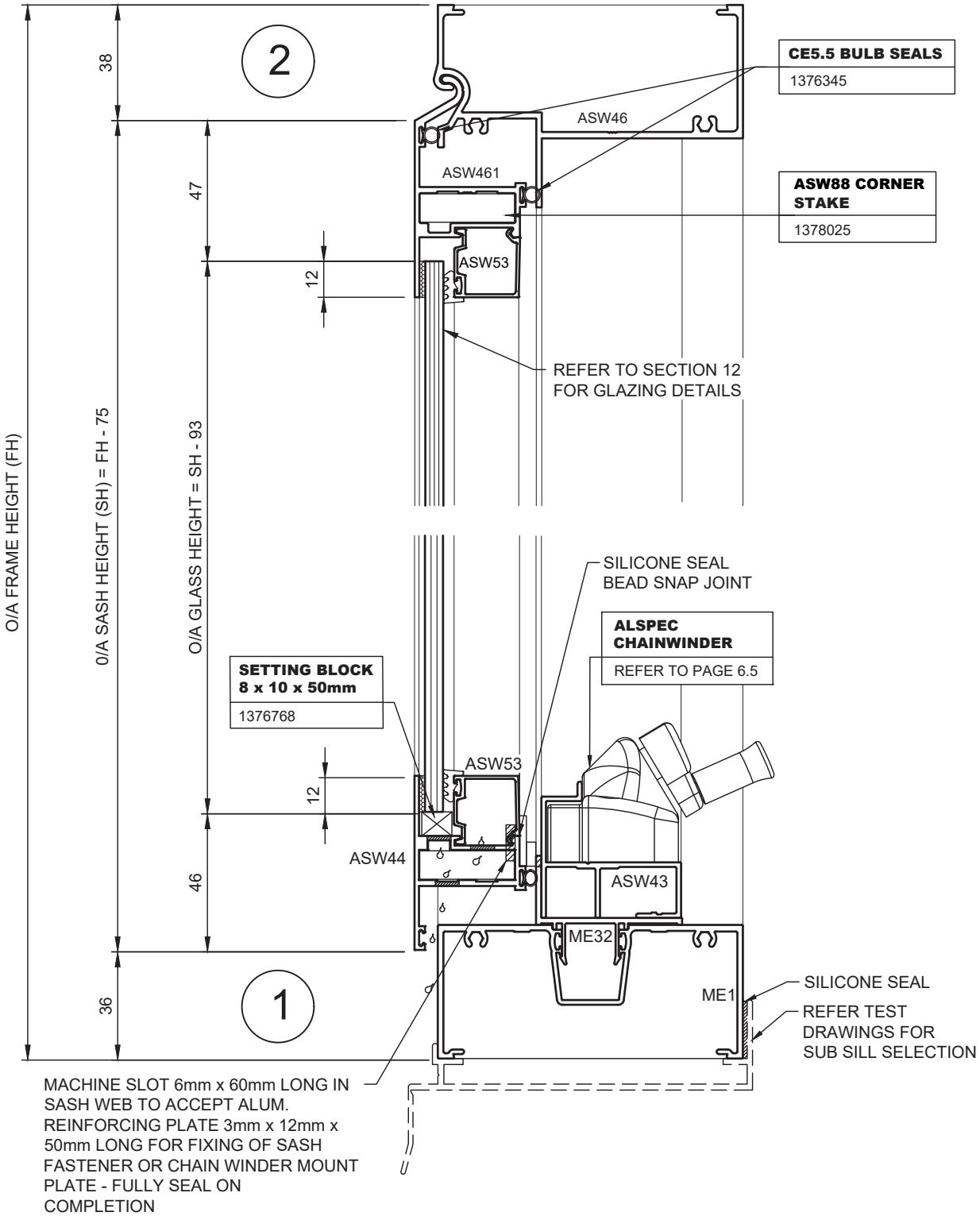


* VARIES DEPENDING ON FRICTION STAY SPECIFIED

Top Hung McArthur Evo Awning Head & Sill Details

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

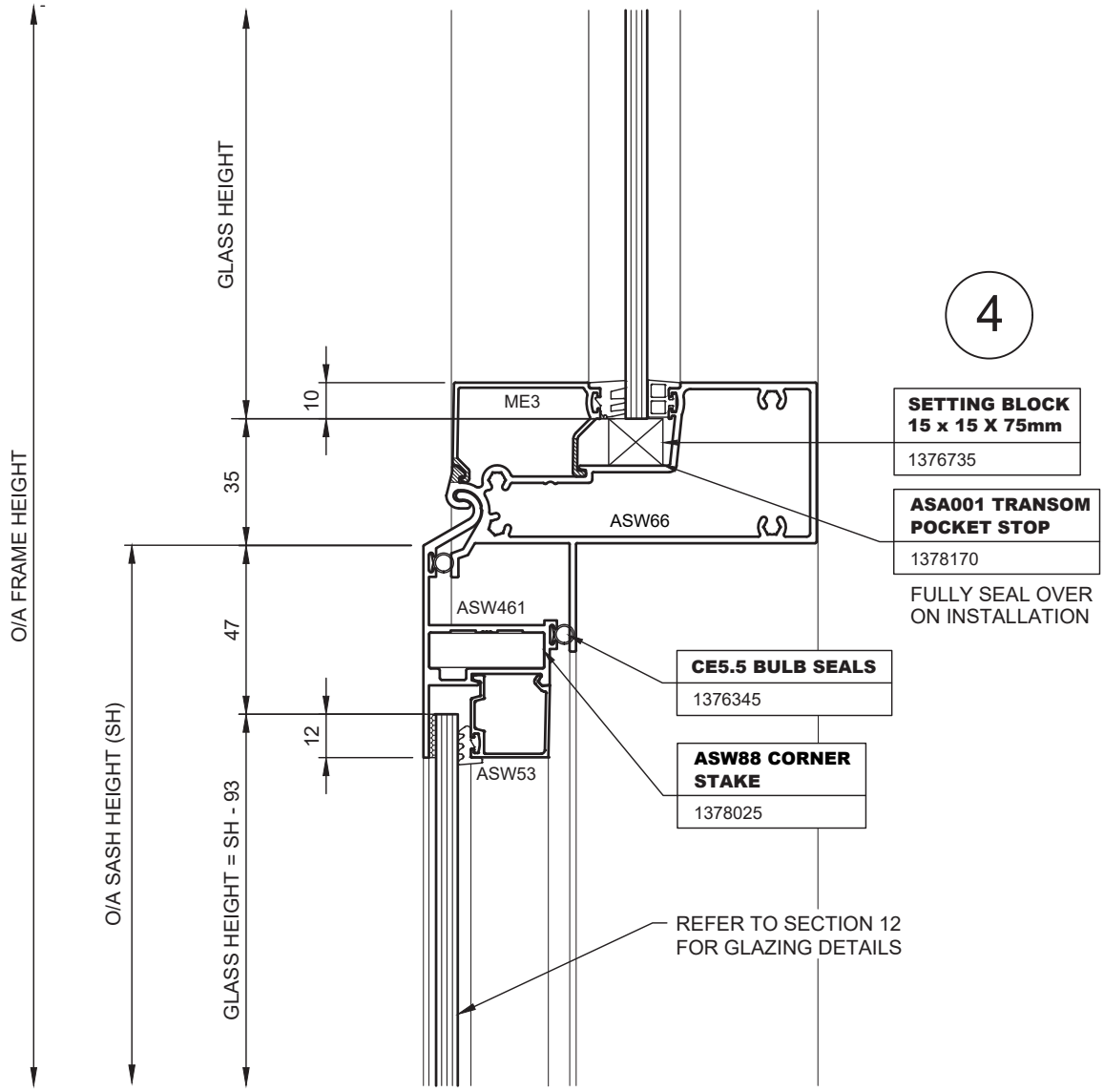
WELD ALL BULB SEAL MITRE JOINTS



Top Hung McArthur Evo Awning Transom Highlight Detail

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

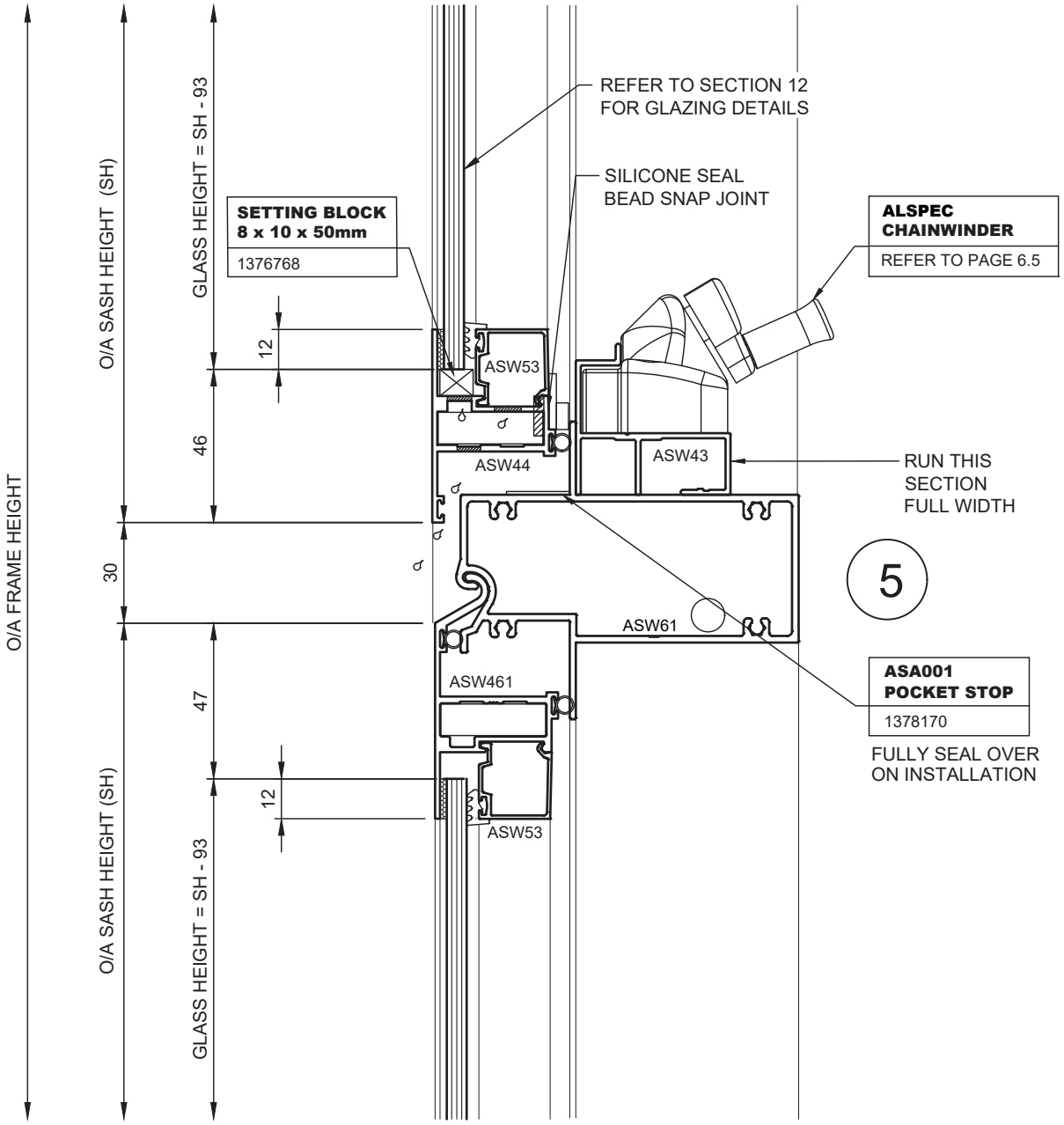
WELD ALL BULB SEAL MITRE JOINTS



Top Hung McArthur Evo Awning over Awning Detail

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

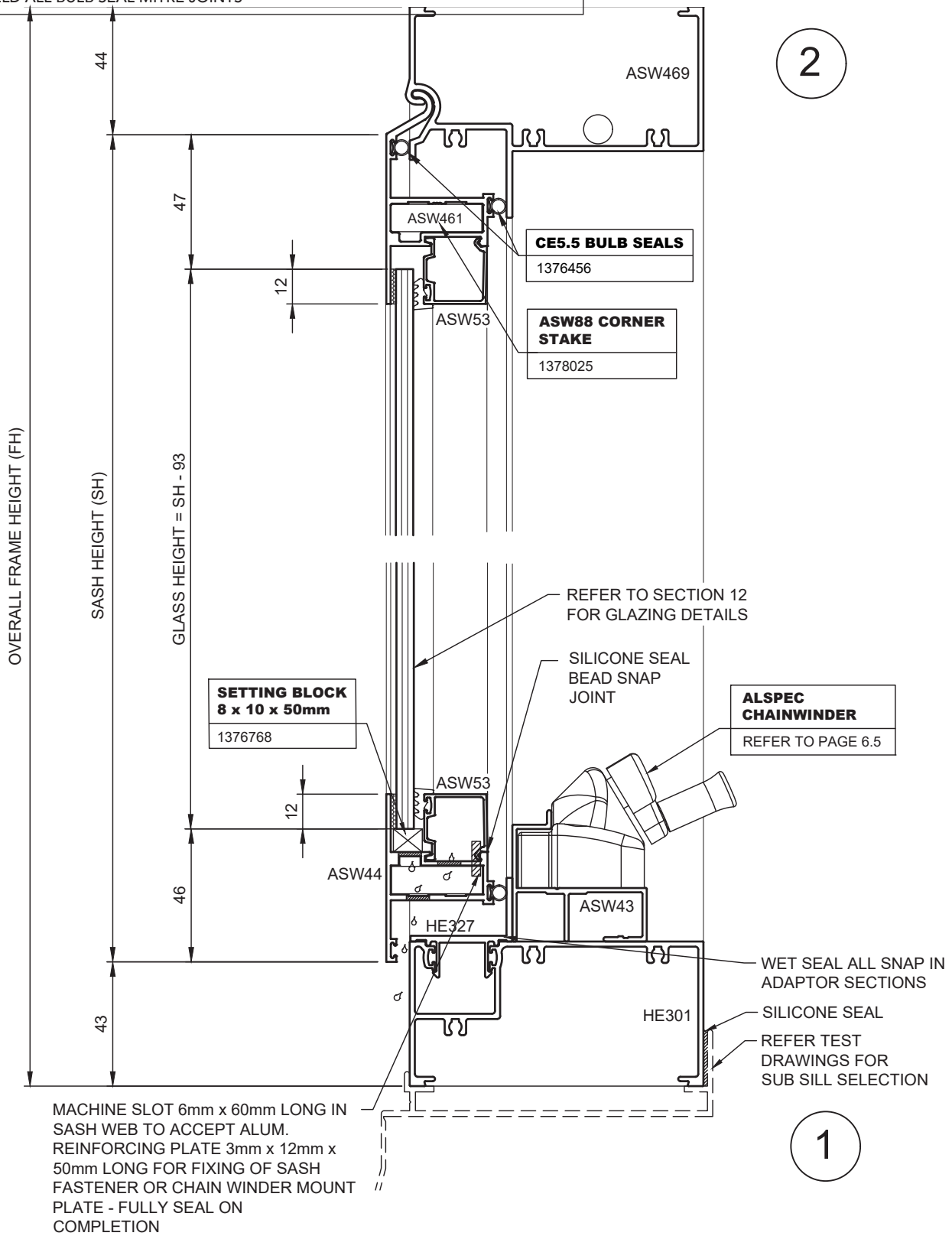
WELD ALL BULB SEAL MITRE JOINTS



Top Hung Hunter Evo SG Awning Head & Sill Details

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

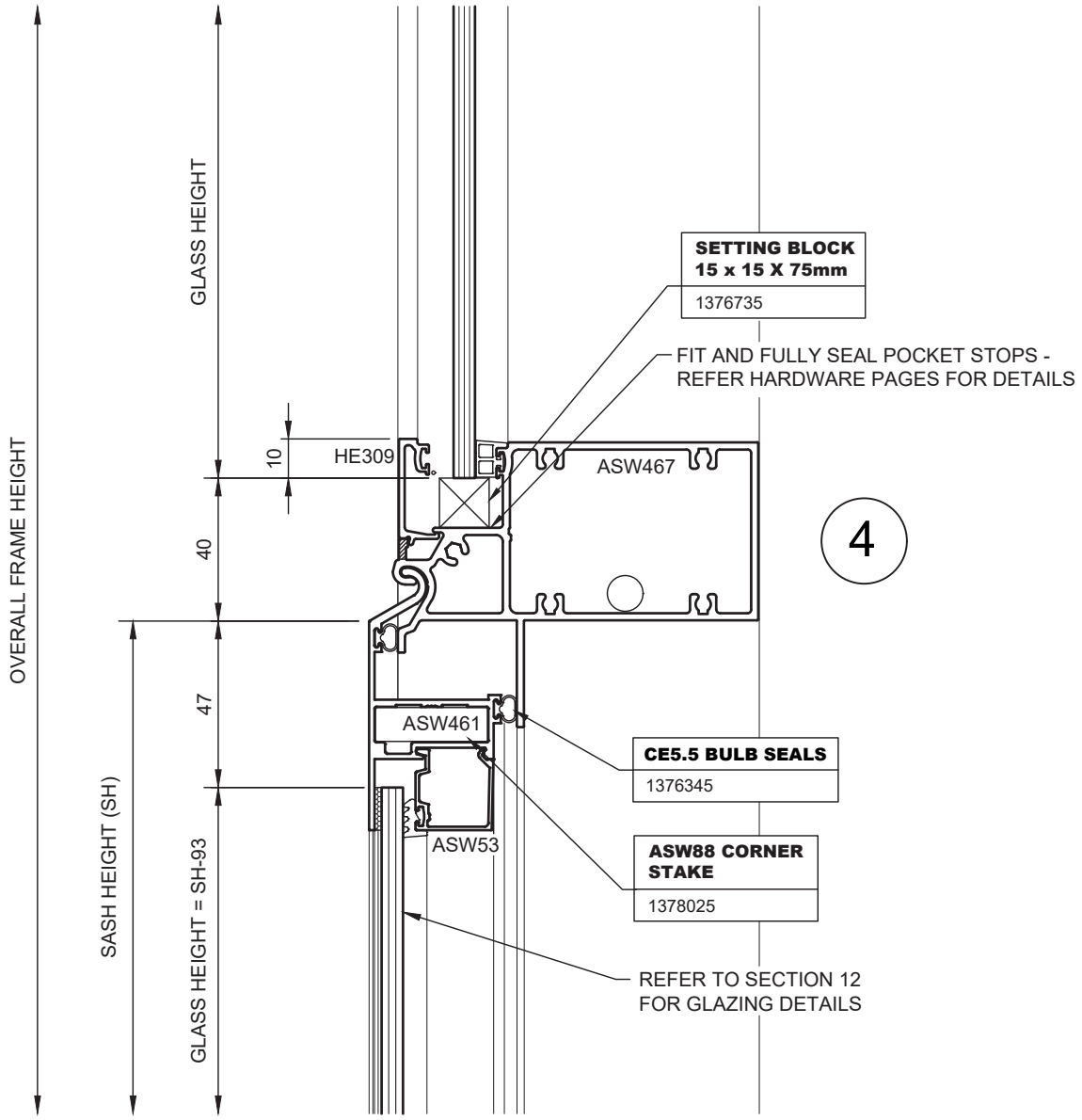
WELD ALL BULB SEAL MITRE JOINTS



Top Hung Hunter Evo SG Awning Transom Highlight Detail

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

WELD ALL BULB SEAL MITRE JOINTS

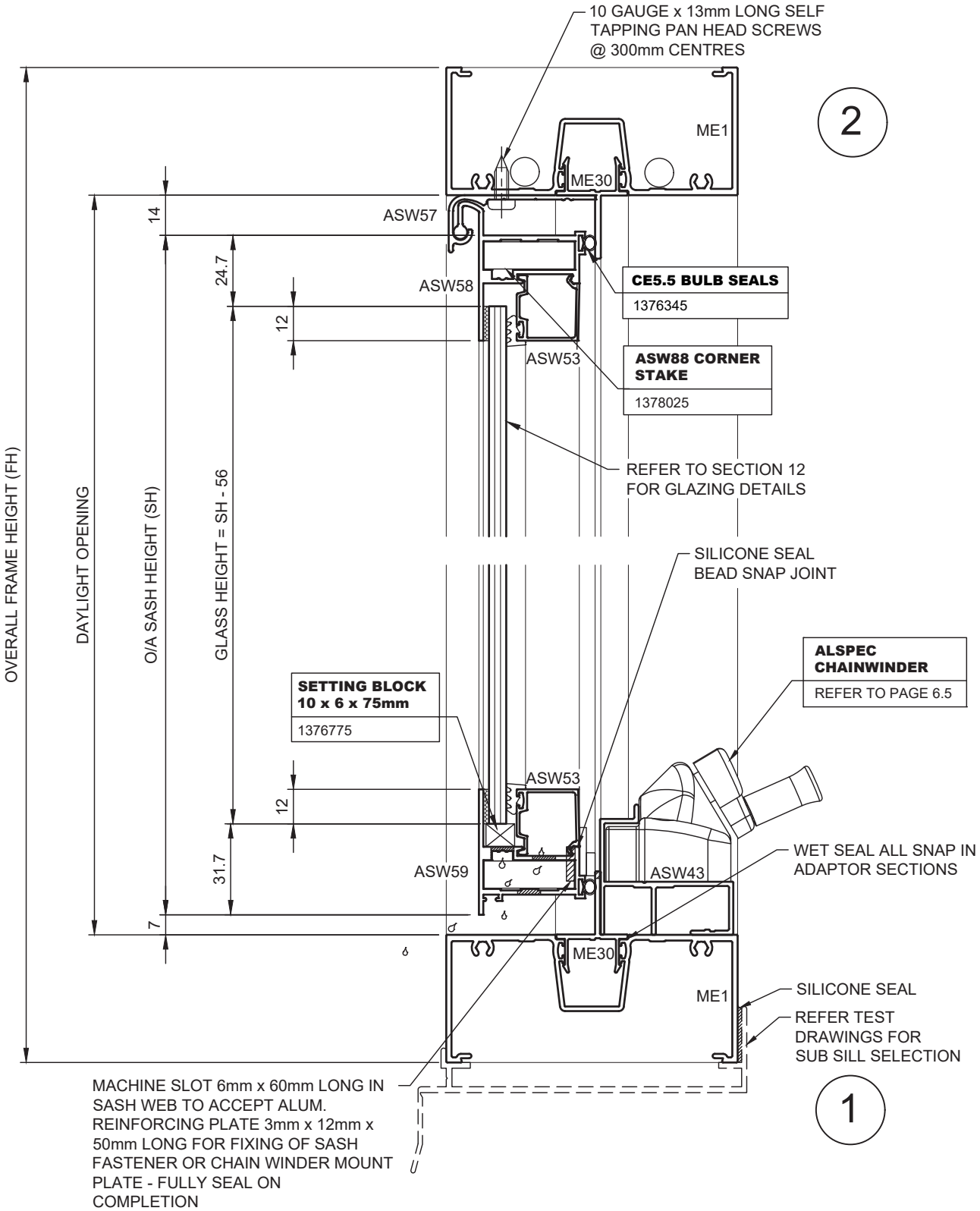


EXTERNALLY GLAZED TRANSOM DETAIL

Inset Top Hung Awning McArthur Evo Head & Sill Details

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

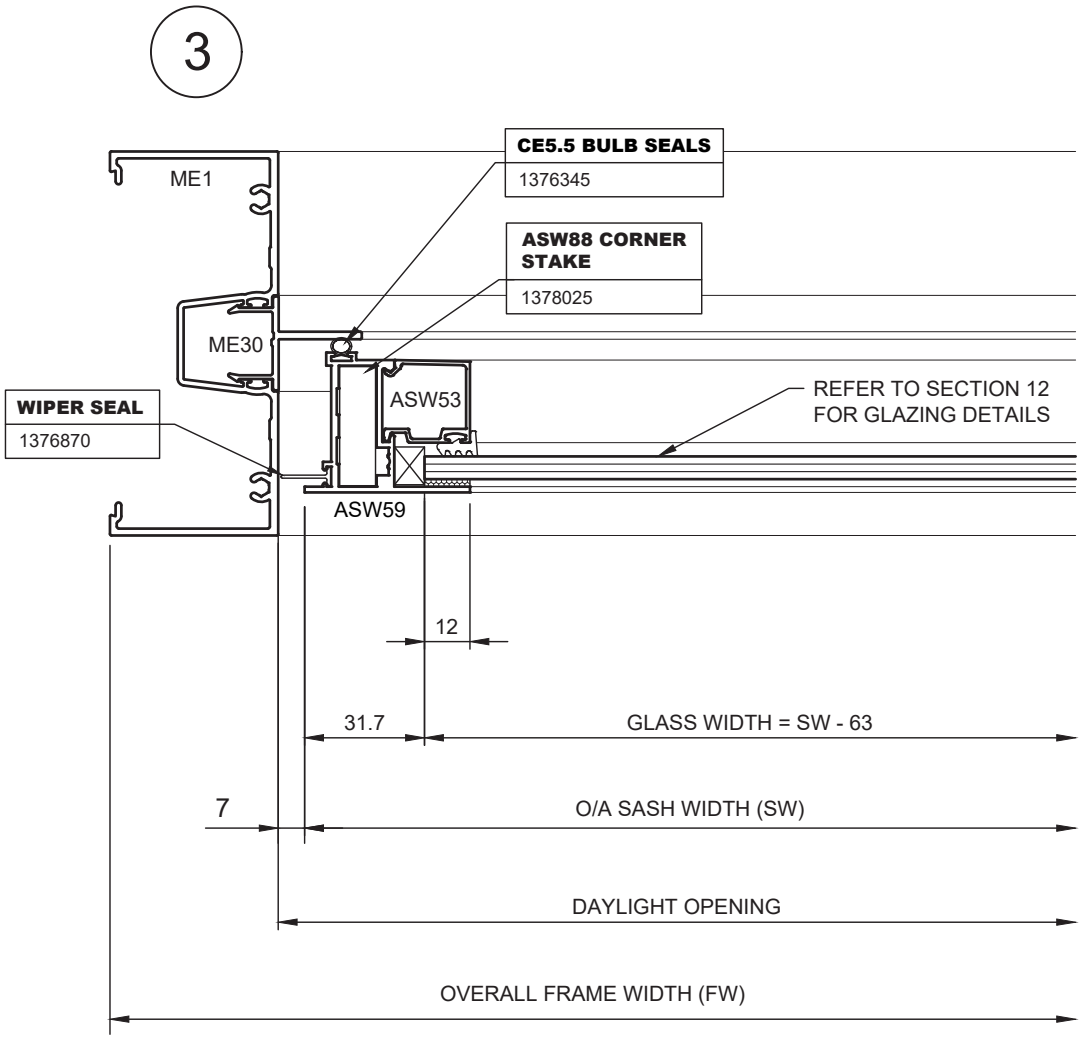
WELD ALL BULB SEAL MITRE JOINTS



Inset Top Hung Awning McArthur Evo Jamb Details

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

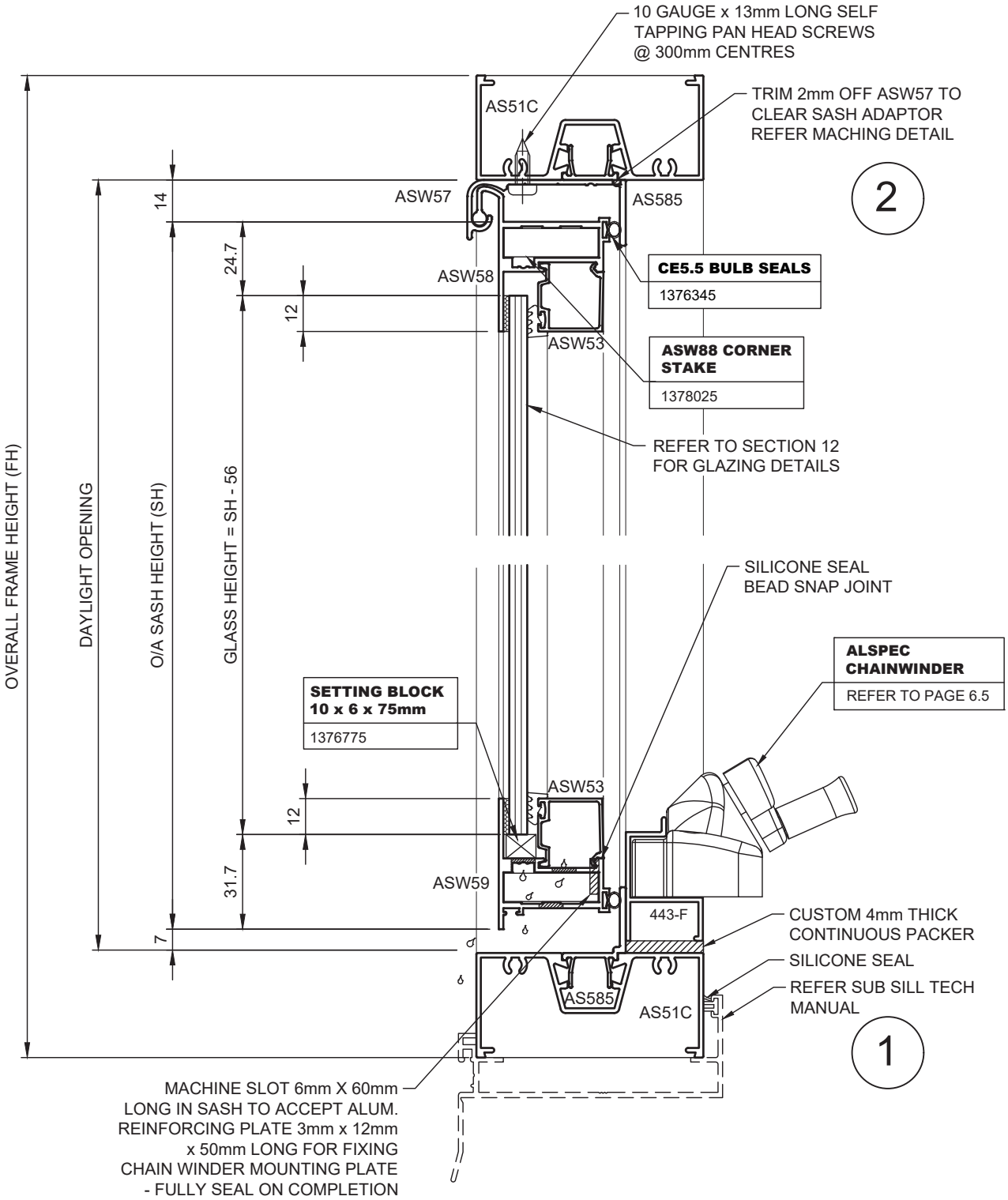
WELD ALL BULB SEAL MITRE JOINTS



Inset Top Hung Awning Derwent Head & Sill Details

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

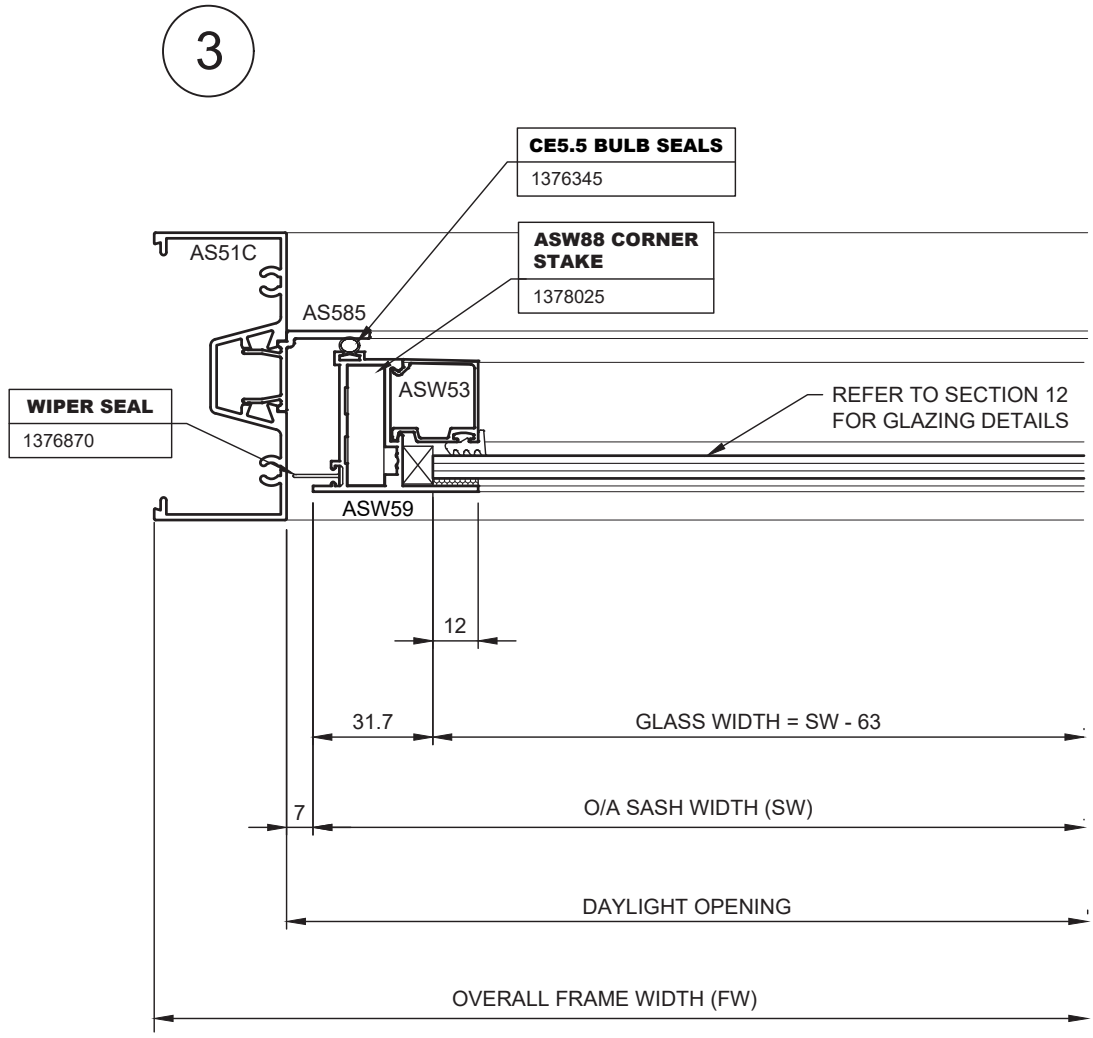
WELD ALL BULB SEAL MITRE JOINTS



Inset Top Hung Awning Derwent Jamb Detail

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

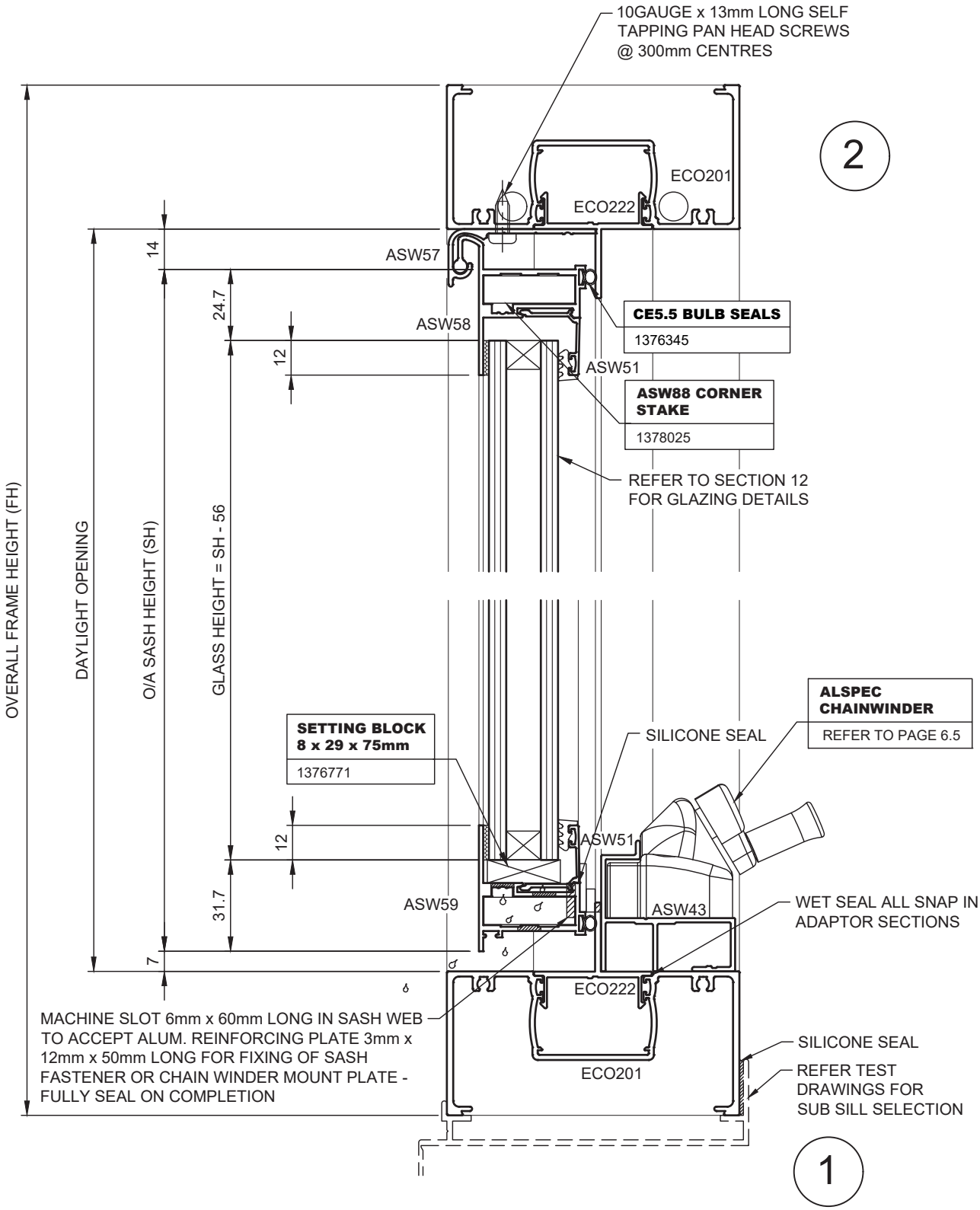
WELD ALL BULB SEAL MITRE JOINTS



Inset Top Hung Awning ecoFRAMEplus Head & Sill Details

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

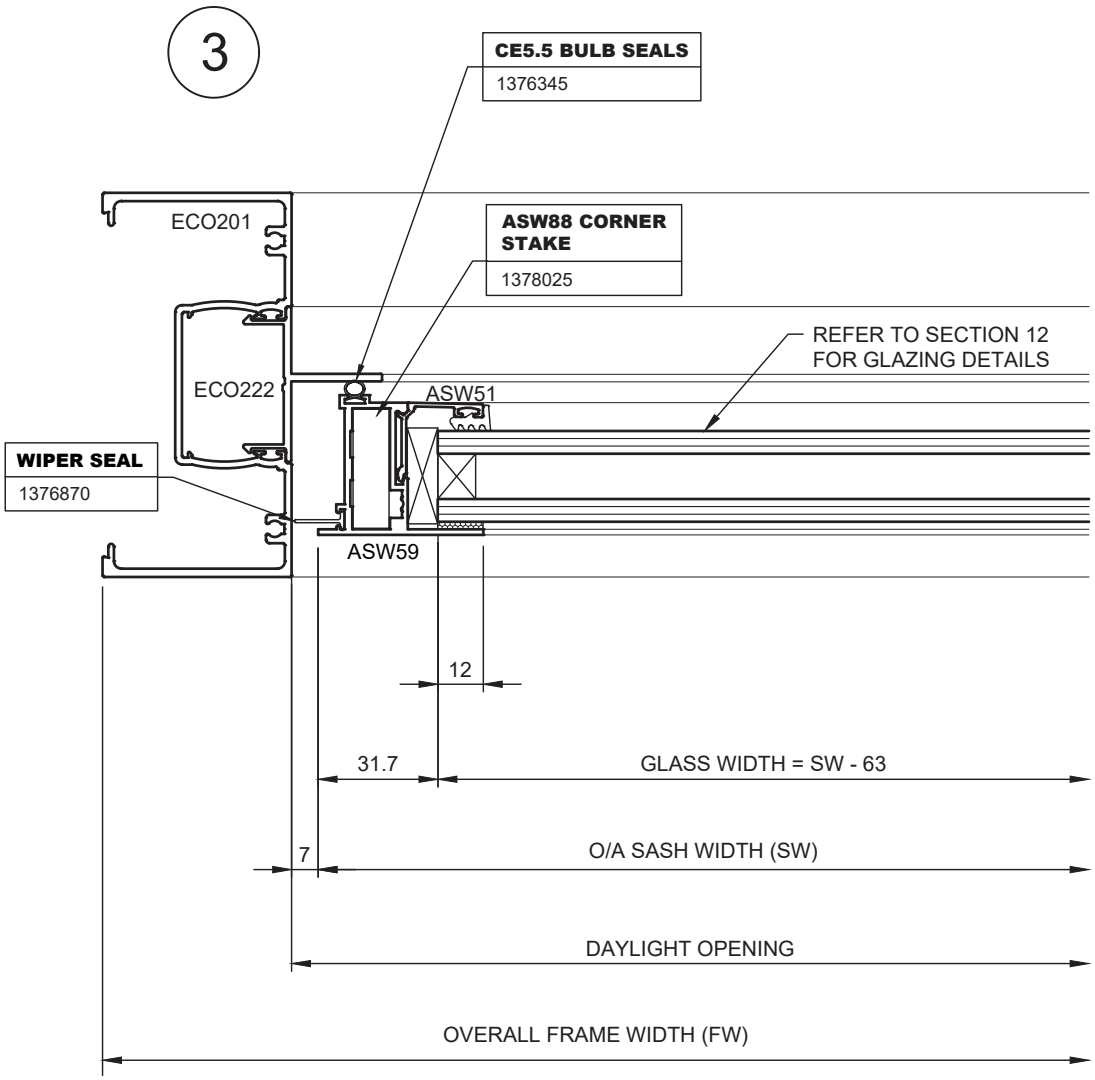
WELD ALL BULB SEAL MITRE JOINTS



Inset Top Hung Awning ecoFRAMEplus Jamb Detail

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

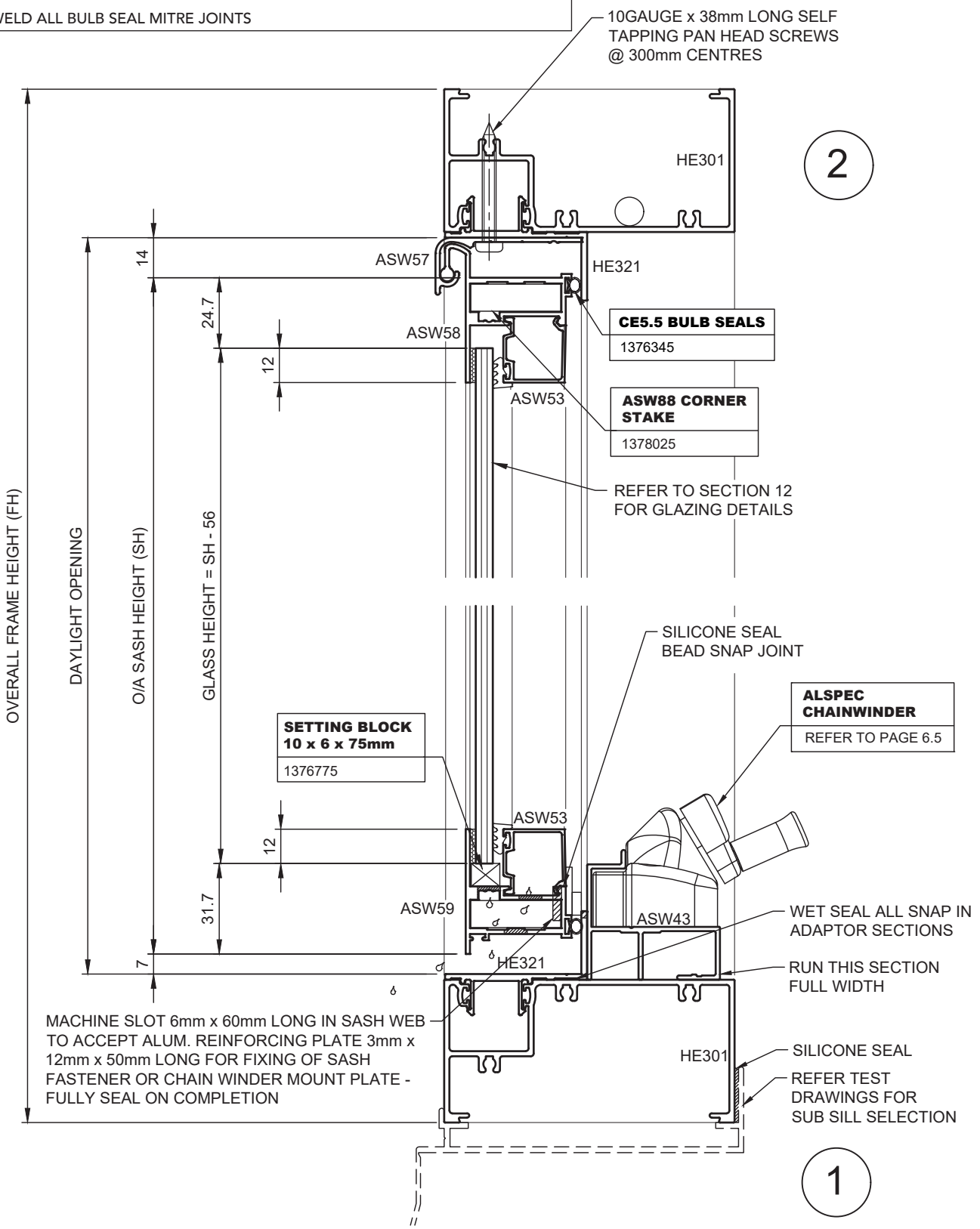
WELD ALL BULB SEAL MITRE JOINTS



Inset Top Hung Awning Hunter Evo SG Head & Sill Details

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

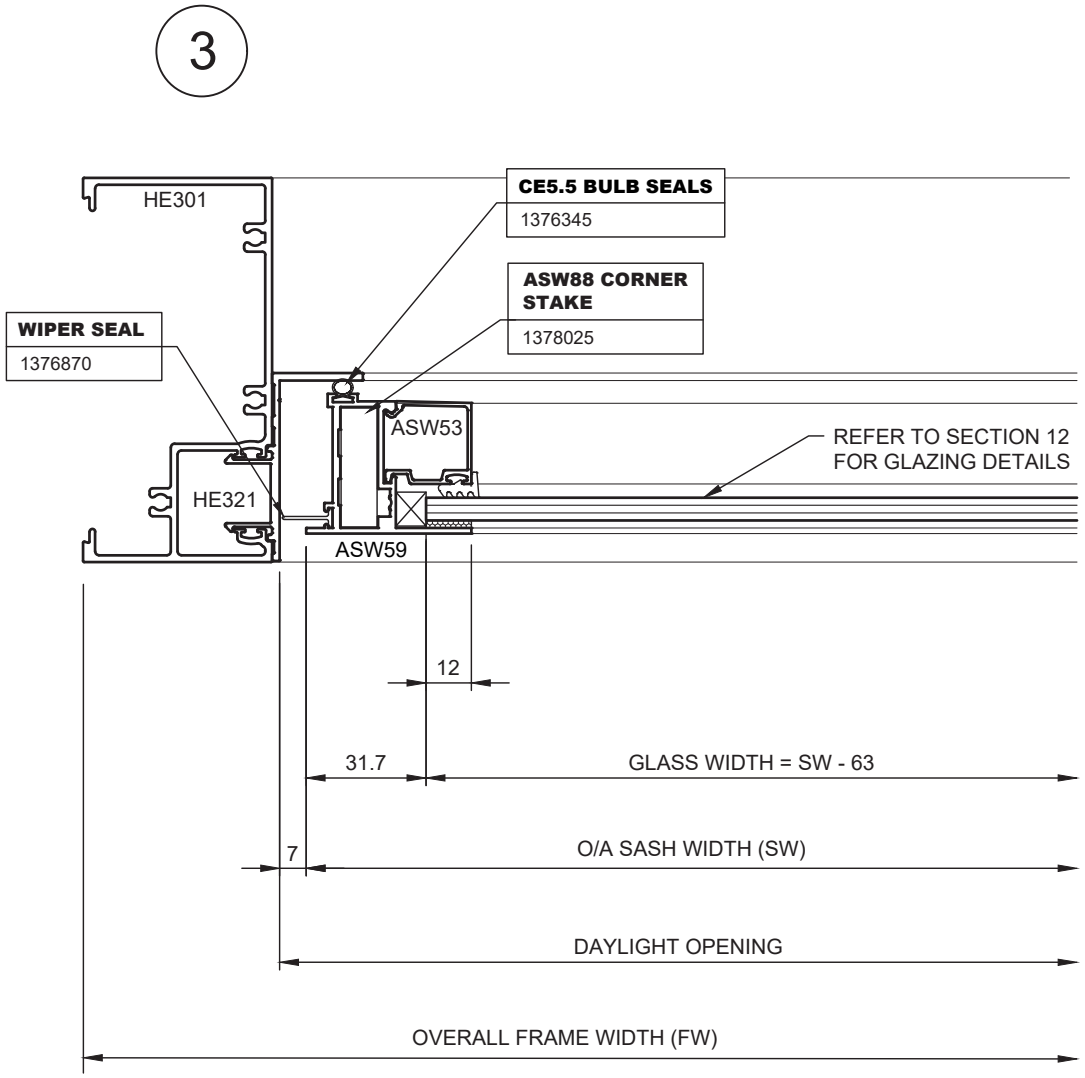
WELD ALL BULB SEAL MITRE JOINTS



Inset Top Hung Awning Hunter Evo SG Jamb Detail

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

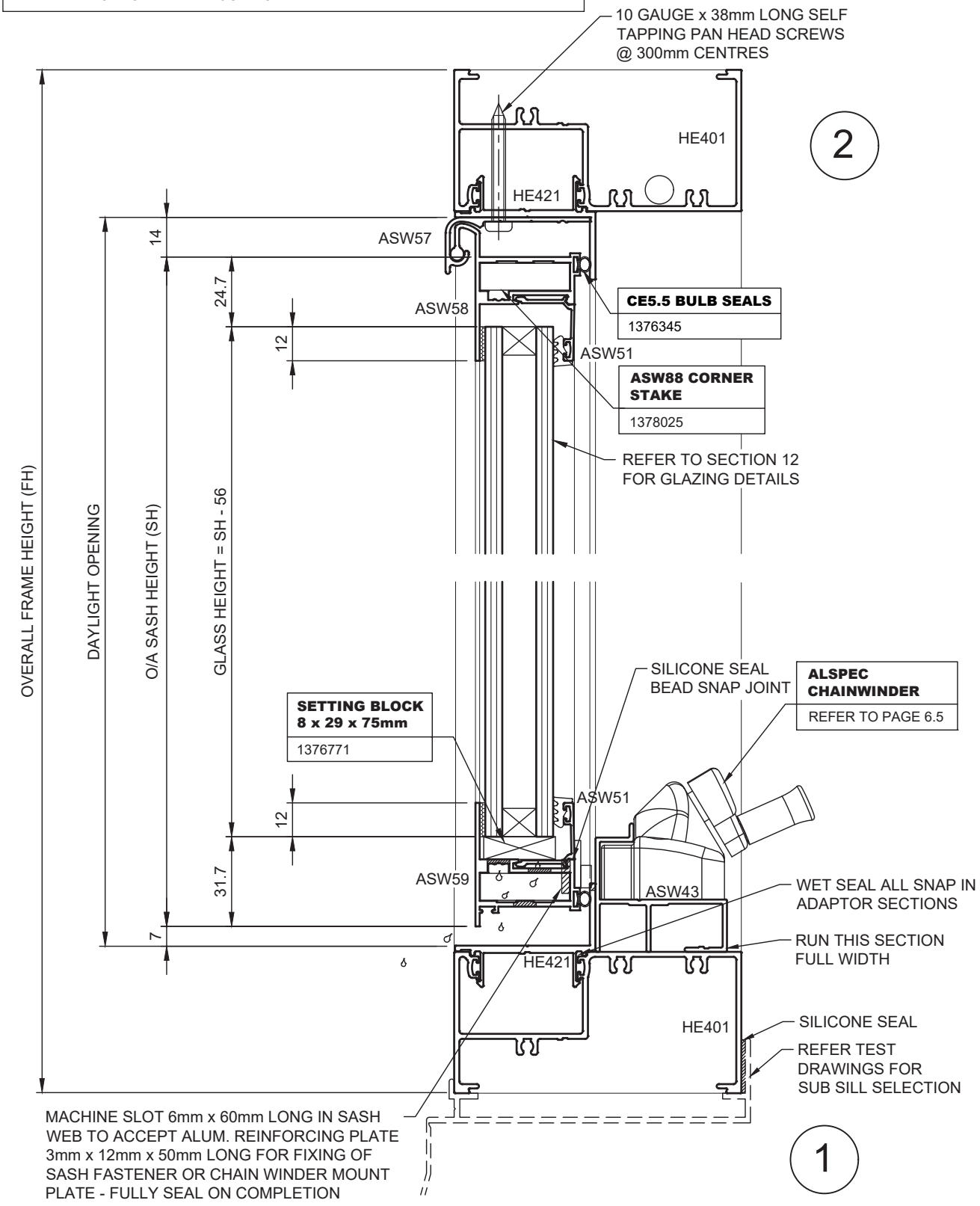
WELD ALL BULB SEAL MITRE JOINTS



Inset Top Hung Awning Hunter Evo DG Head & Sill Details

NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

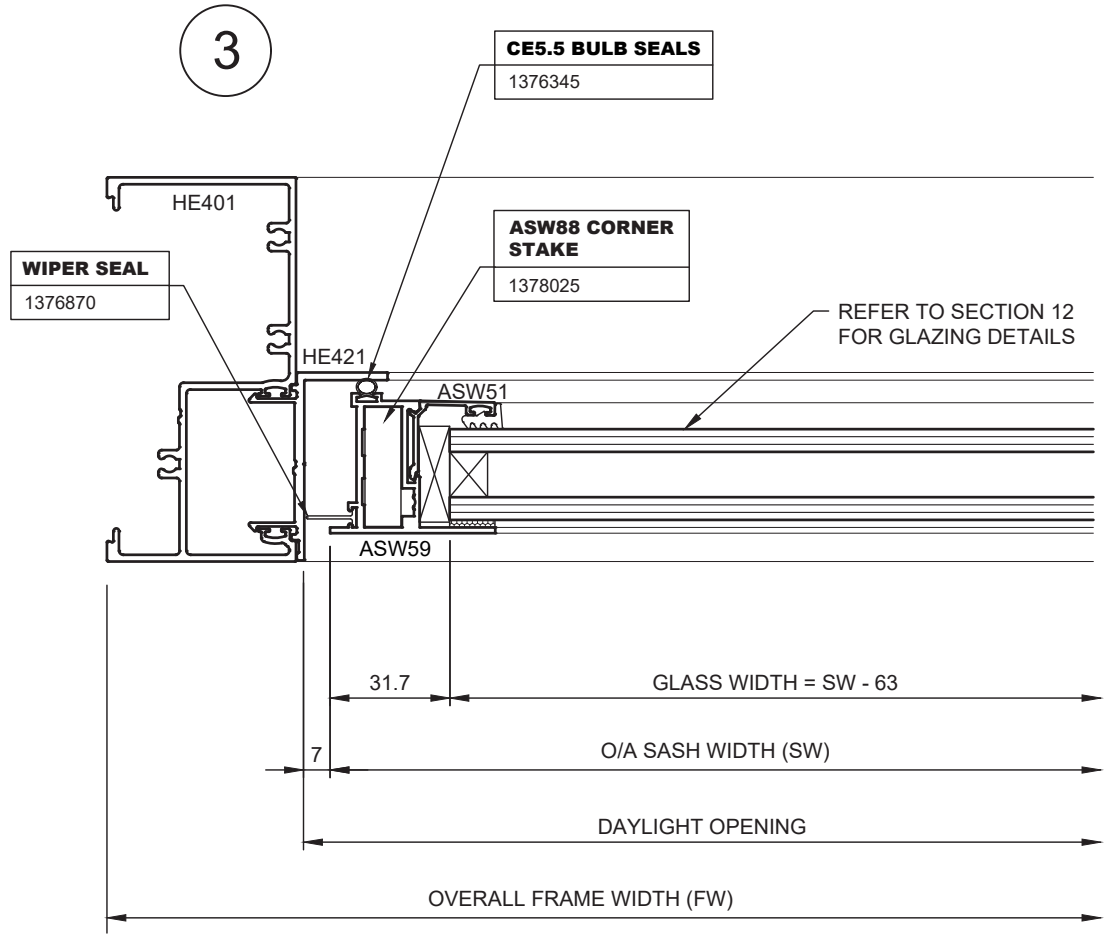
WELD ALL BULB SEAL MITRE JOINTS



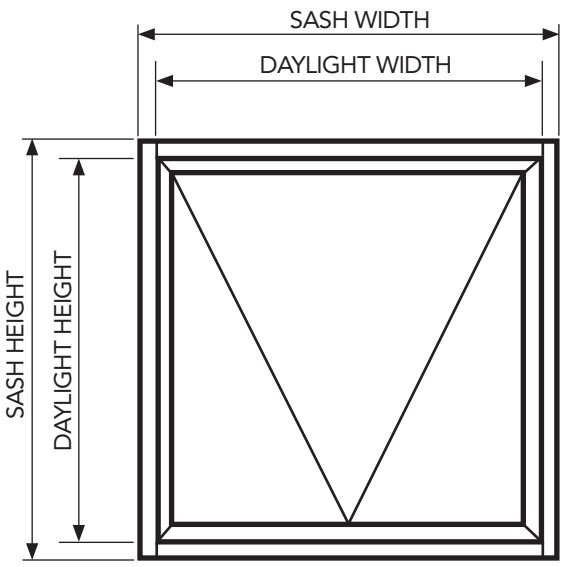
Inset Top Hung Awning Hunter Evo DG Jamb Detail

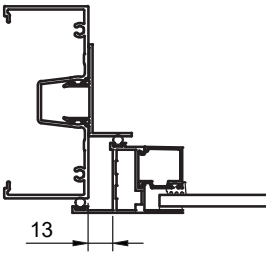
NOTE: ALL METAL TO METAL JOINTS AND SASH ADAPTORS ARE TO BE SEALED WATER TIGHT WITH A SMALL JOINT SEALER OR APPROVED SEALANT.

WELD ALL BULB SEAL MITRE JOINTS



Typical ASW44 Sash in Center Pocket Frame - 13mm Cavity





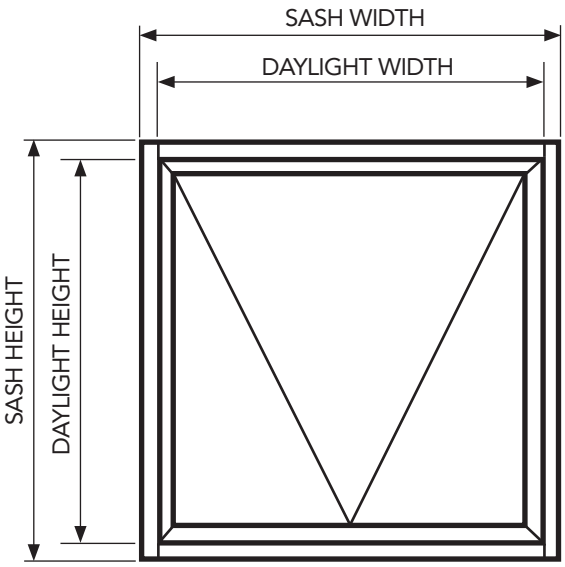
FORMULAS BASED OFF STANDARD 13mm GAP BETWEEN THE FRAME AND SASH

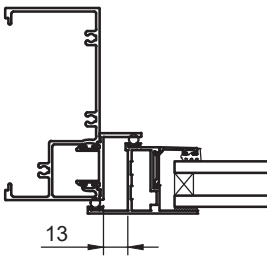
* Mitre Cut

	PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
*		ME32, ECO223, AS581	35mm Awning Adaptor	Daylight Width	2
*		ASW44	Awning Sash	Daylight Width + 16	2
		ASW53	Sash Bead	Daylight Width - 100	2
		ASW43	Awning Winder	Daylight Width	1
		ASW11	Drip Mould	Daylight Width	1
*		ASW44	Awning Sash	Daylight Height + 16	2
		ASW53	Sash Bead	Daylight Height - 60	2
*		ME32, ECO223, HE327, AS581	35mm Awning Adaptor	Daylight Height + 7	2
	GLASS	HEIGHT		Sash Height - 92	1
		WIDTH		Sash Width - 92	

9. Cutting Formulas

Typical ASW44 Sash in Hunter Evo Frame - 13mm Cavity



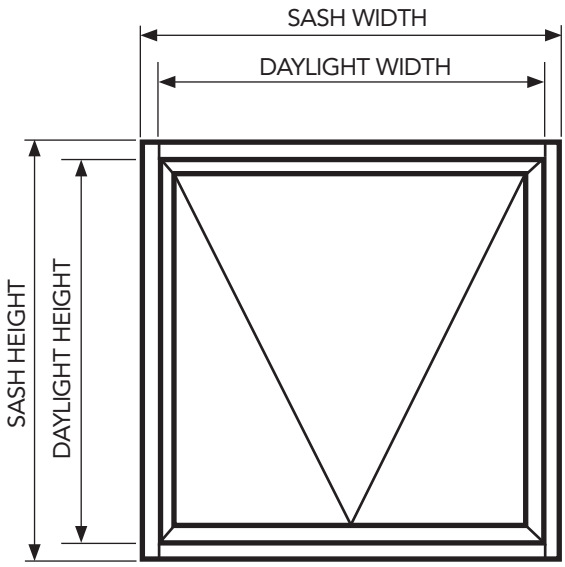


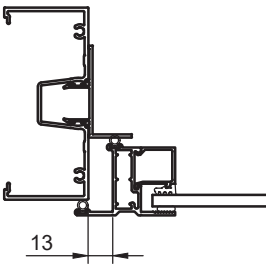
FORMULAS BASED OFF STANDARD 13mm GAP BETWEEN THE FRAME AND SASH

* Mitre Cut

	PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
*		HE327	35mm Awning Adaptor	Daylight Width	2
*		ASW44	Awning Sash	Daylight Width + 12	2
		ASW51	Sash Bead	Daylight Width - 104	2
		ASW43 or ASW73	Awning Winder	Daylight Width	1
		ASW11	Drip Mould	Daylight Width	1
*		ASW44	Awning Sash	Daylight Height + 12	2
		ASW51	Sash Bead	Daylight Height - 64	2
*		HE327	35mm Awning Adaptor	Daylight Height	2
	GLASS	HEIGHT		Sash Height - 92	2
		WIDTH		Sash Width - 92	

Typical ASW4 Sash in Center Pocket Frame - 13mm Cavity



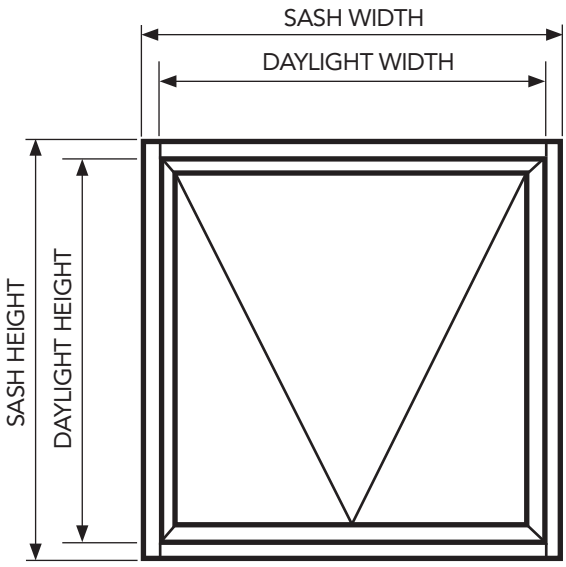


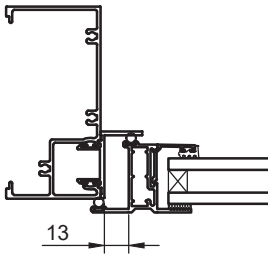
FORMULAS BASED OFF STANDARD 13mm GAP BETWEEN THE FRAME AND SASH

* Mitre Cut

	PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
*		ME32, ECO223, AS581	35mm Awning Adaptor	Daylight Width	2
*		ASW4	Awning Sash	Daylight Width + 14	2
		ASW5	Sash Bead	Daylight Width - 92	2
		ASW43	Awning Winder	Daylight Width	1
		ASW11	Drip Mould	Daylight Width	1
*		ASW4	Awning Sash	Daylight Height + 14	2
		ASW5	Sash Bead	Daylight Height - 56	2
*		ME32, ECO223, AS581	35mm Awning Adaptor	Daylight Height + 7	2
	GLASS	HEIGHT		Sash Height - 82	1
		WIDTH		Sash Width - 82	

Typical ASW4 Sash in Center Pocket Frame - 13mm Cavity



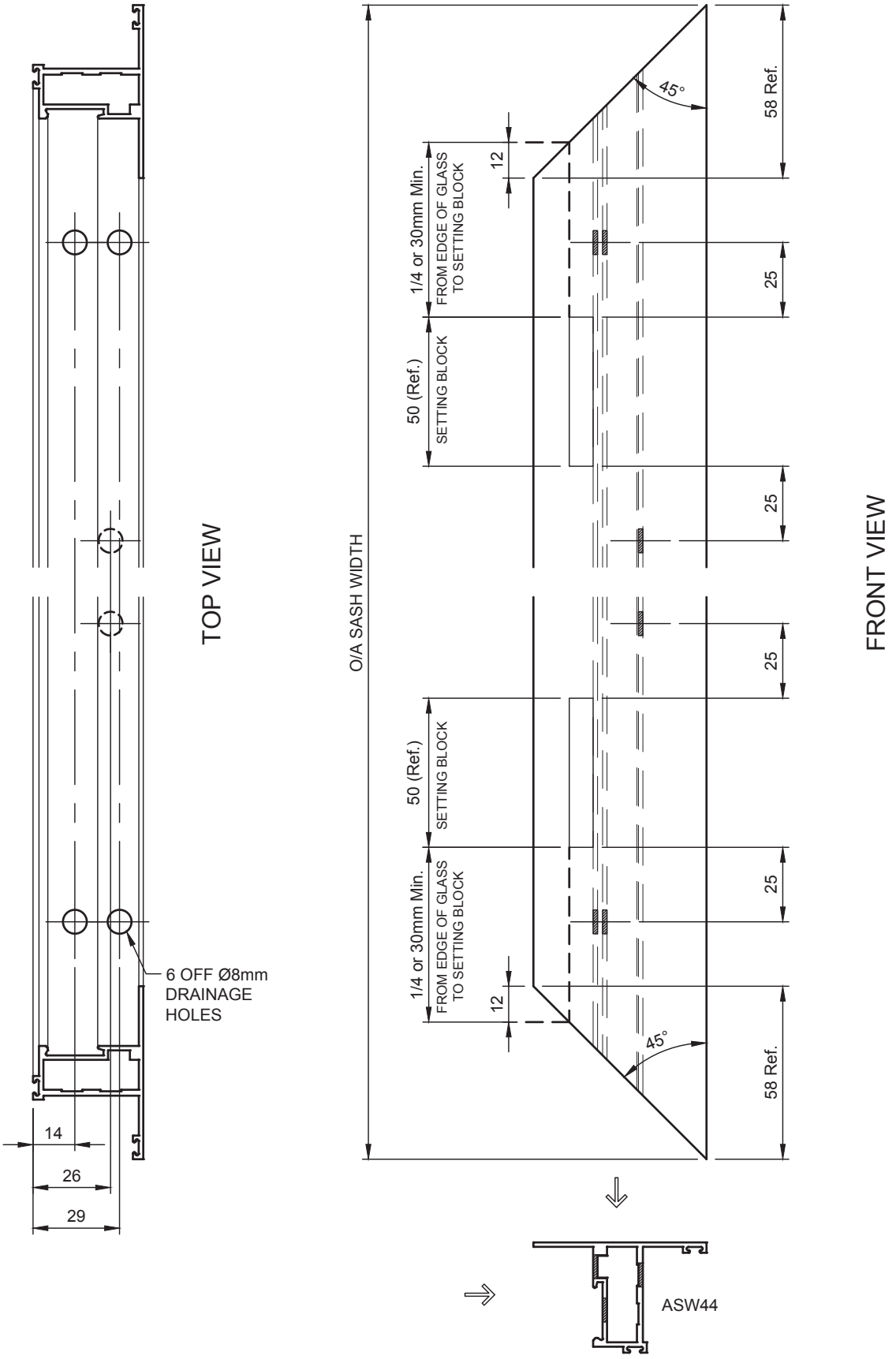


FORMULAS BASED OFF STANDARD 13mm GAP BETWEEN THE FRAME AND SASH

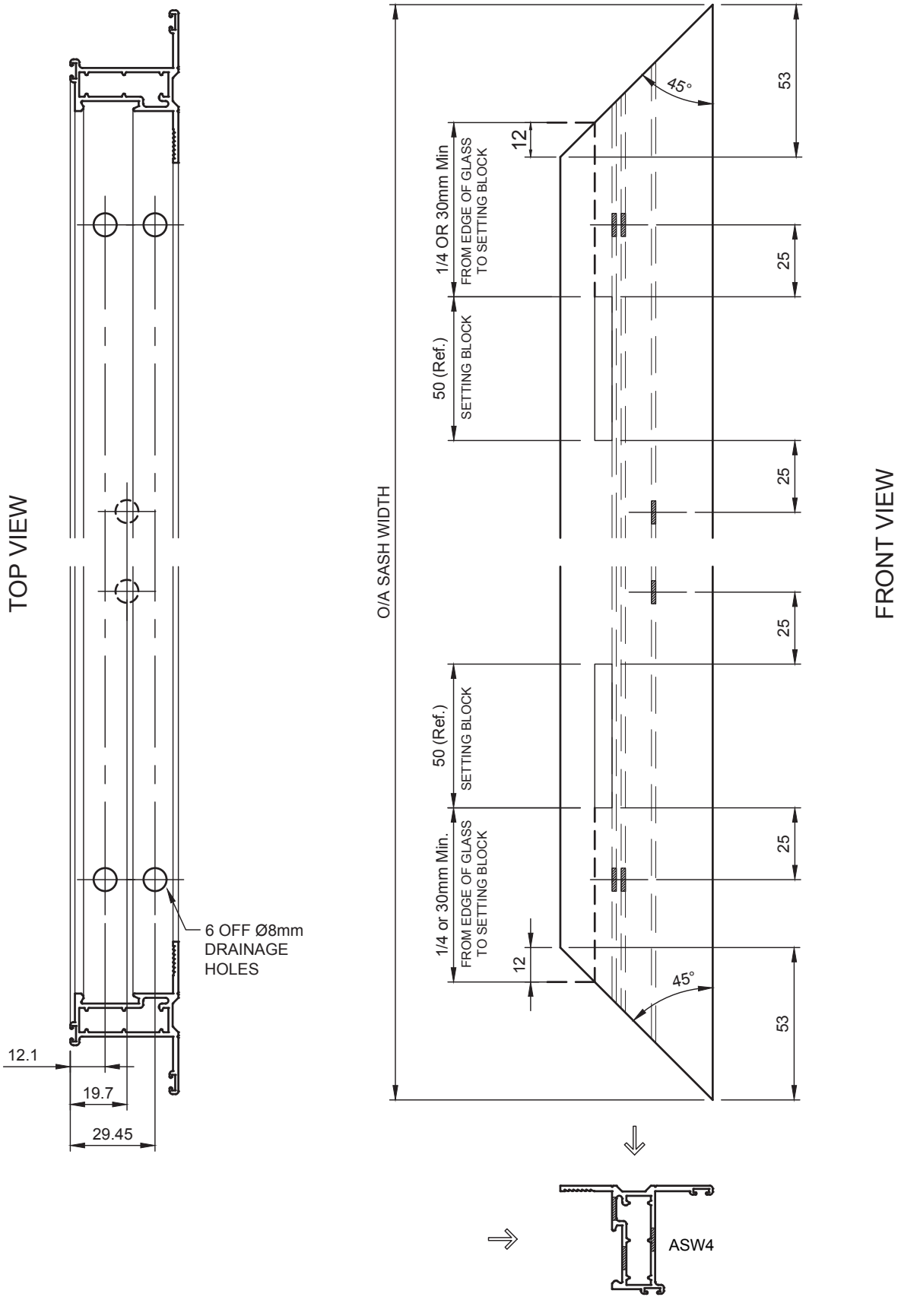
* Mitre Cut

	PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
*		HE327	35mm Awning Adaptor	Daylight Width	2
*		ASW4	Awning Sash	Daylight Width + 10	2
		ASW51	Sash Bead	Daylight Width - 100	2
		ASW43 or ASW73	Awning Winder	Daylight Width	1
		ASW11	Drip Mould	Daylight Width	1
*		ASW4	Awning Sash	Daylight Height + 12	2
		ASW51	Sash Bead	Daylight Height - 60	2
*		HE327	35mm Awning Adaptor	Daylight Height	2
	GLASS	HEIGHT		Sash Height - 82	2
		WIDTH		Sash Width - 82	

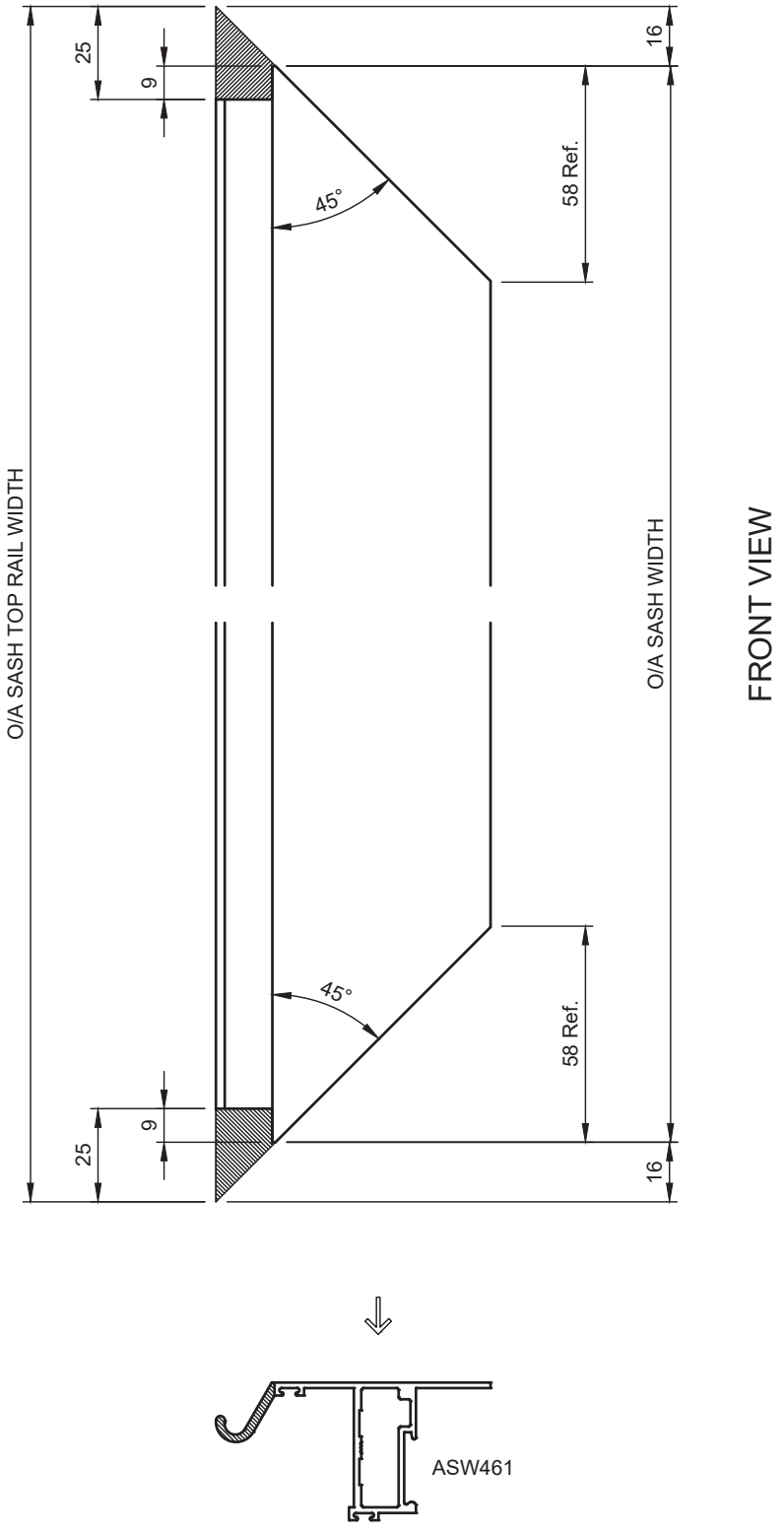
ASW44 Sash Bottom Rail Drainage Details



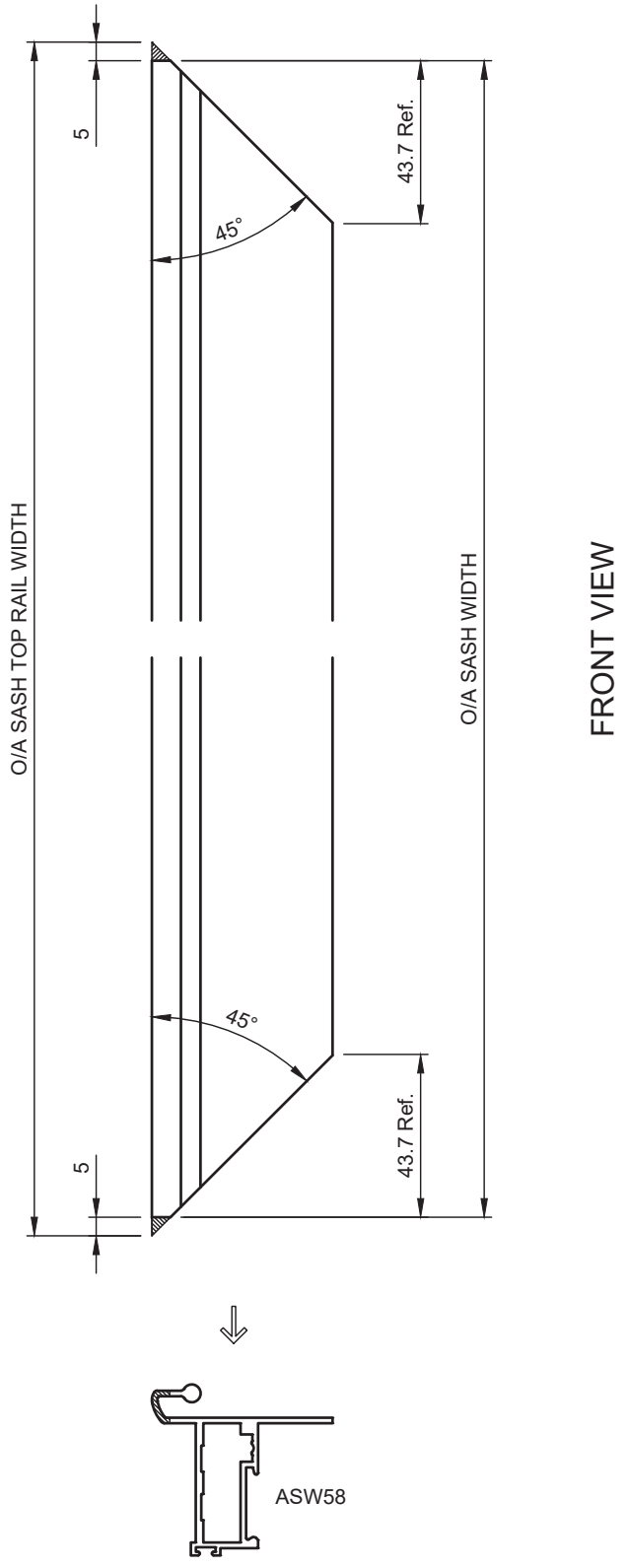
ASW4 Sash Bottom Rail Drainage Details



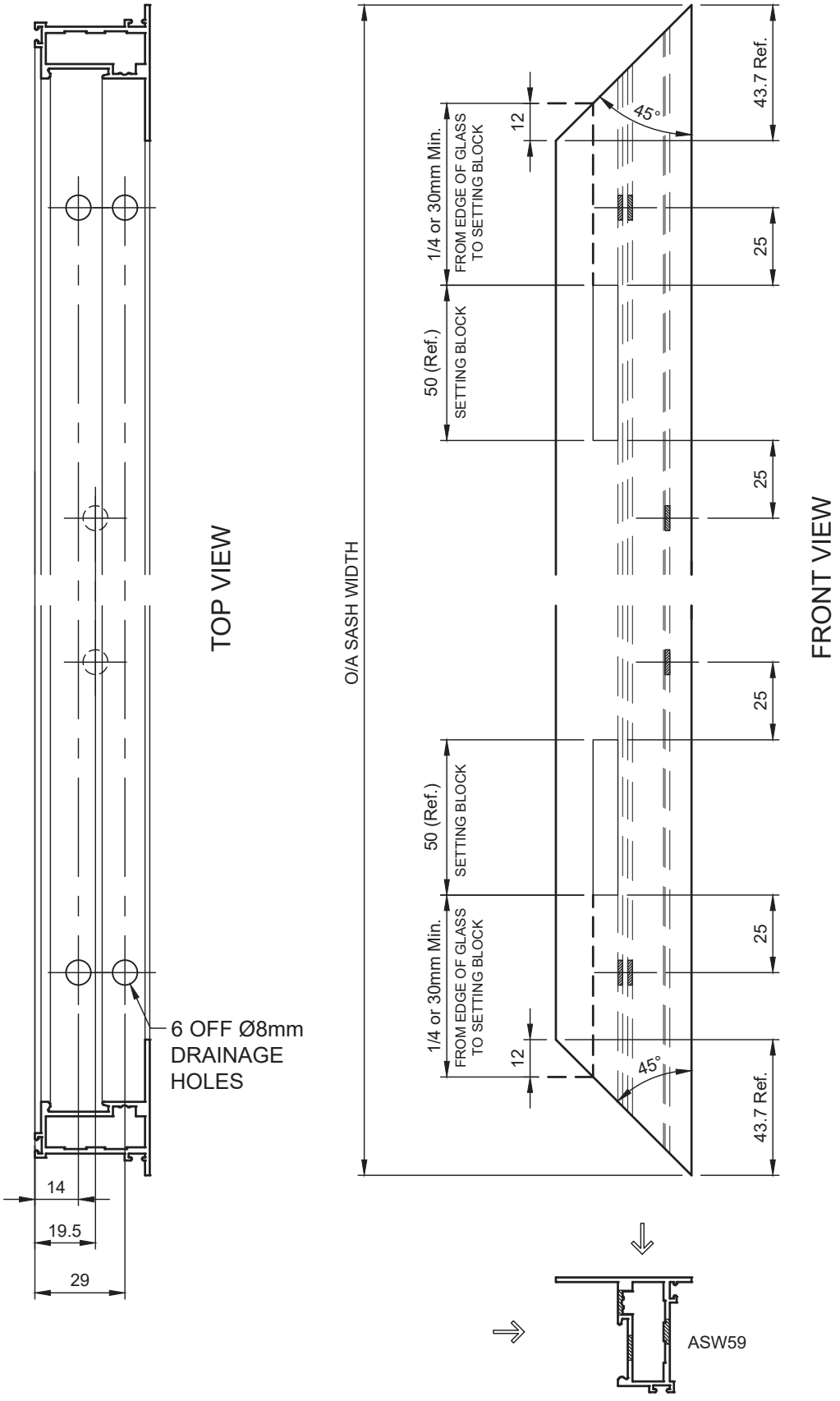
ASW461 Sash Top Rail Preparation



ASW58 Sash Top Rail Preparation

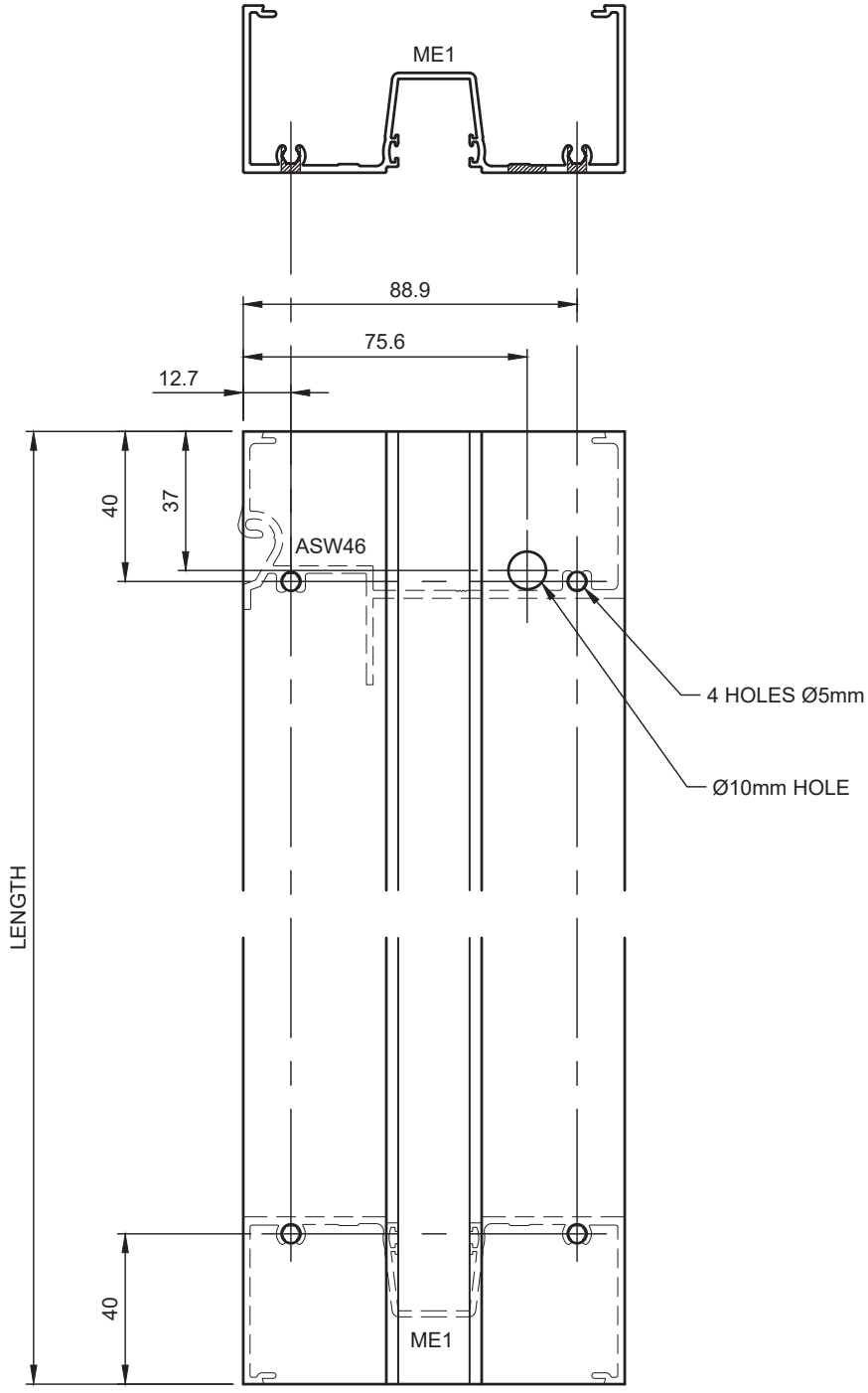


ASW59 Sash Bottom Rail Drainage Details



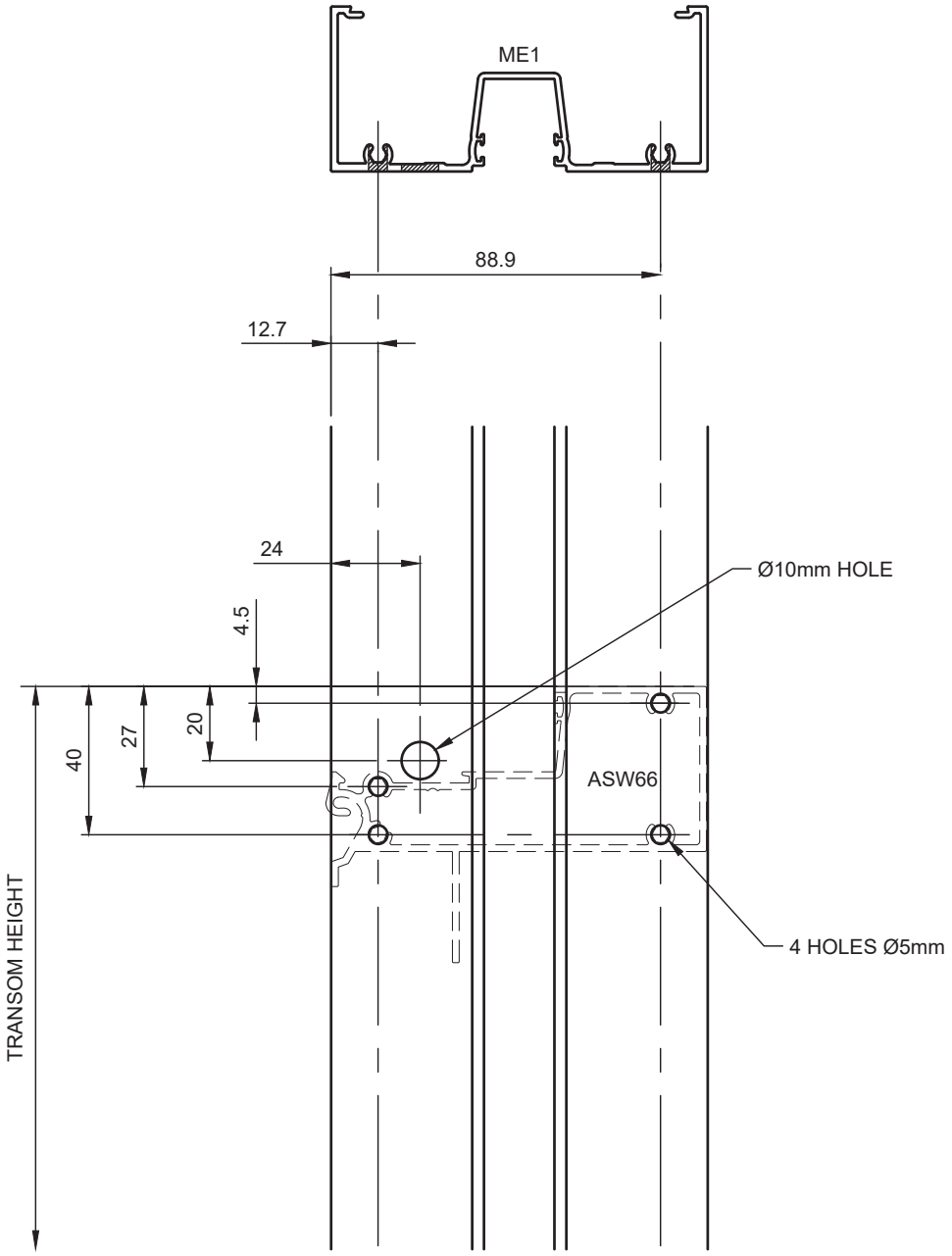
McArthur Evo Frame Preparation ASW46 Top Hung Head

L.H. DRAWN
R.H. OPPOSITE



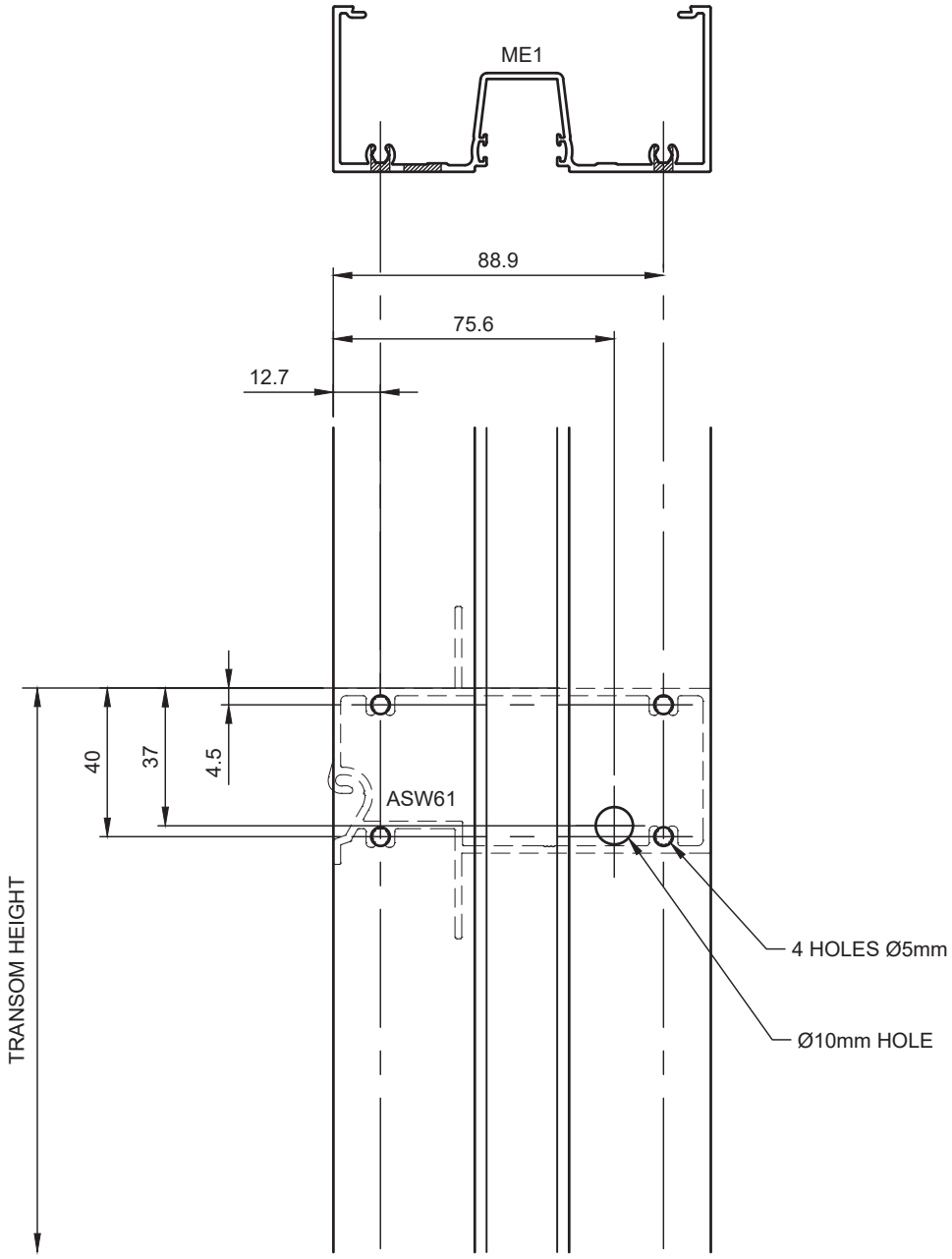
McArthur Evo Frame Preparation ASW66 Transom

L.H. DRAWN
R.H. OPPOSITE



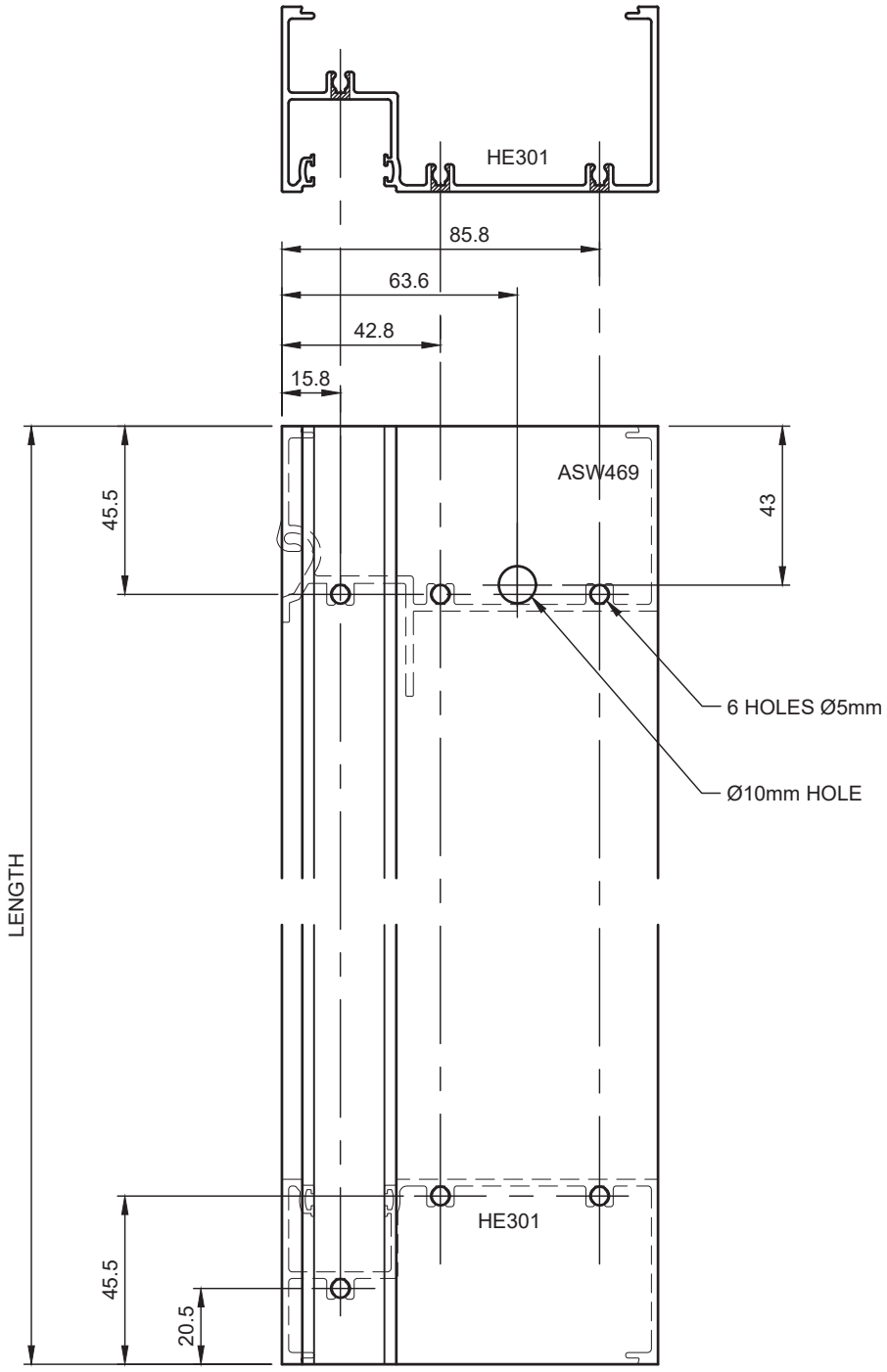
McArthur Evo Frame Preparation ASW61 Transom

L.H. DRAWN
R.H. OPPOSITE



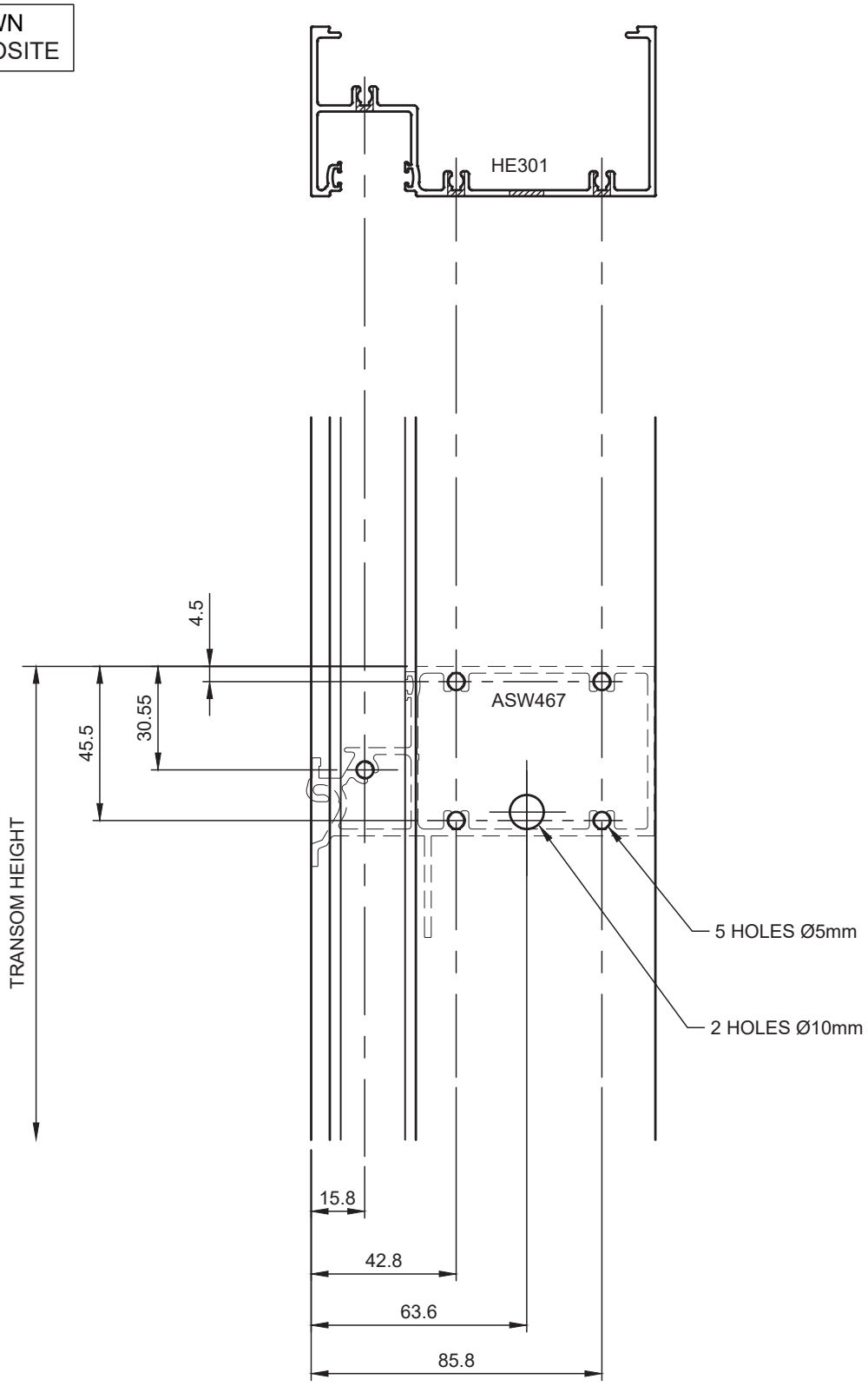
Hunter Evo Frame Preparation ASW469 Top Hung Head

L.H. DRAWN
R.H. OPPOSITE



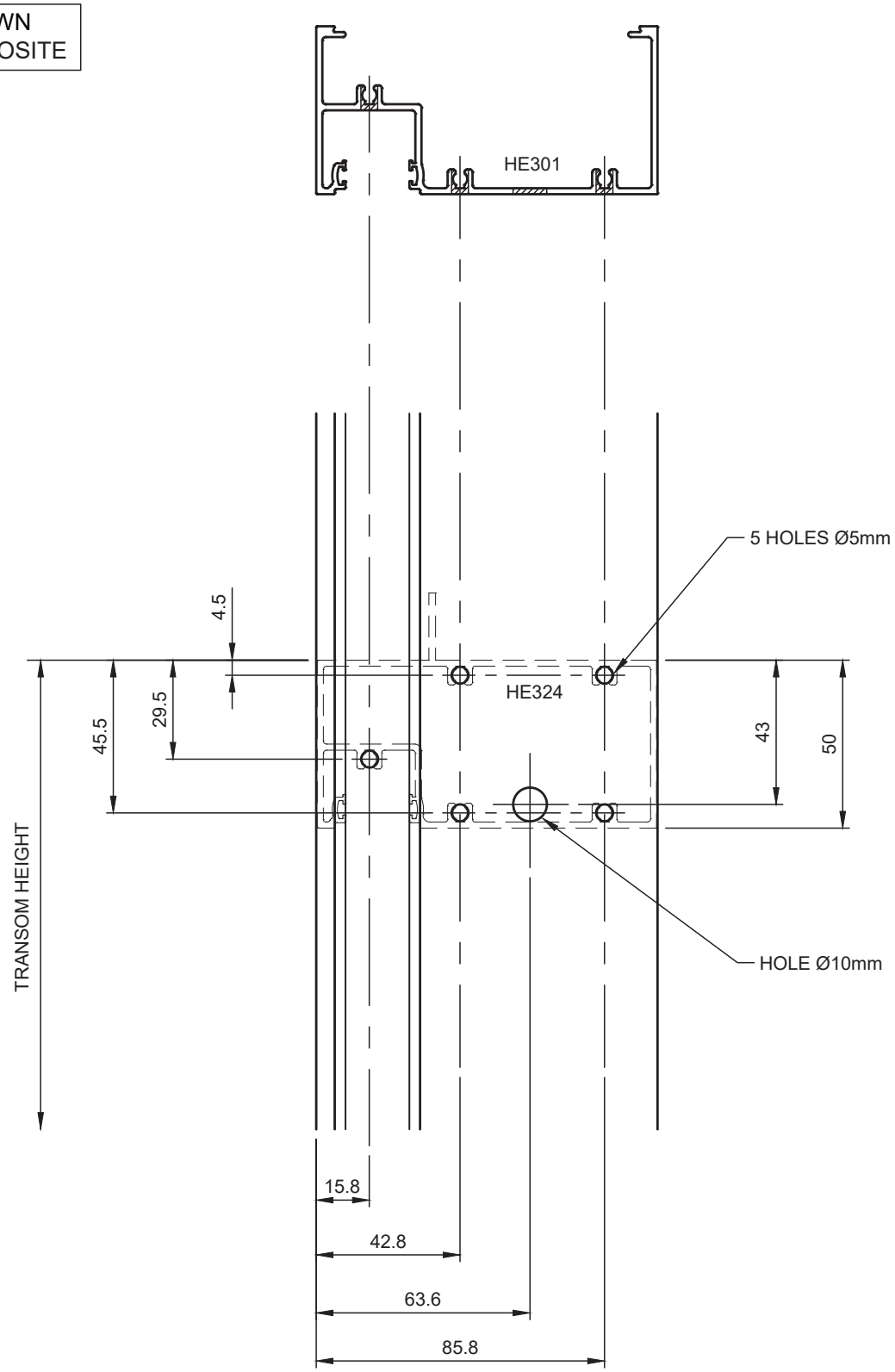
Hunter Evo Frame Preparation ASW467 Transom

L.H. DRAWN
R.H. OPPOSITE



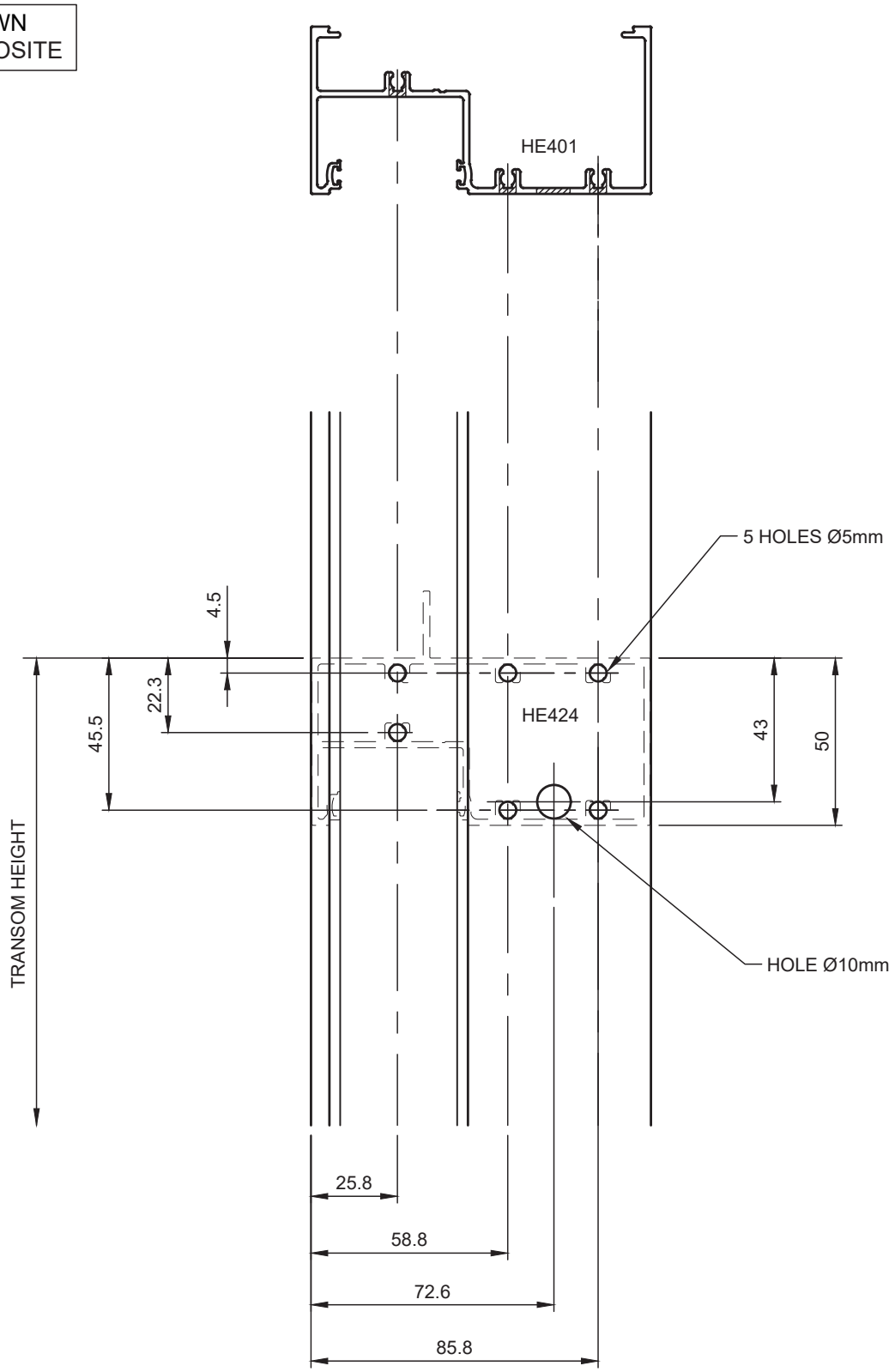
Hunter Evo 101.6mm SG Jamb Preparation for HE324 Transom

L.H. DRAWN
R.H. OPPOSITE



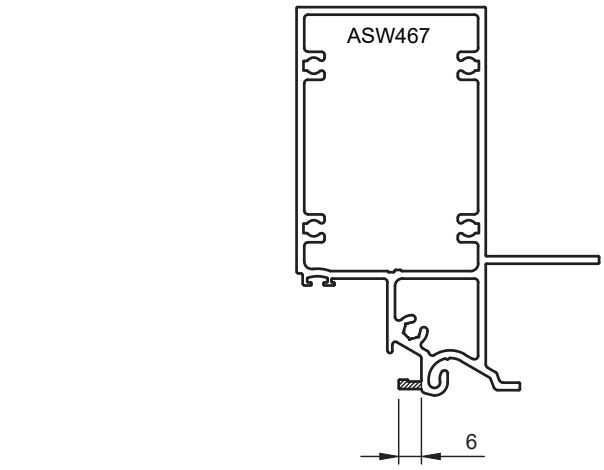
Hunter Evo 101.6mm DG Jamb Preparation for HE424 Transom

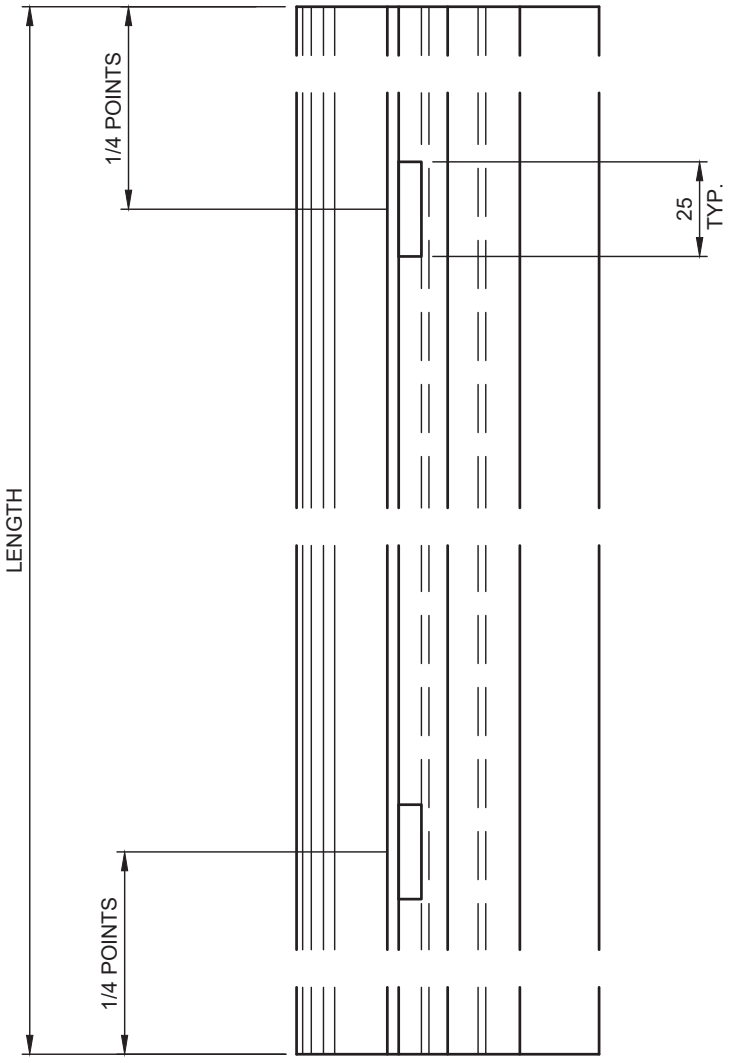
L.H. DRAWN
R.H. OPPOSITE



ASW467 Hunter Evo Transom Drainage Preparation

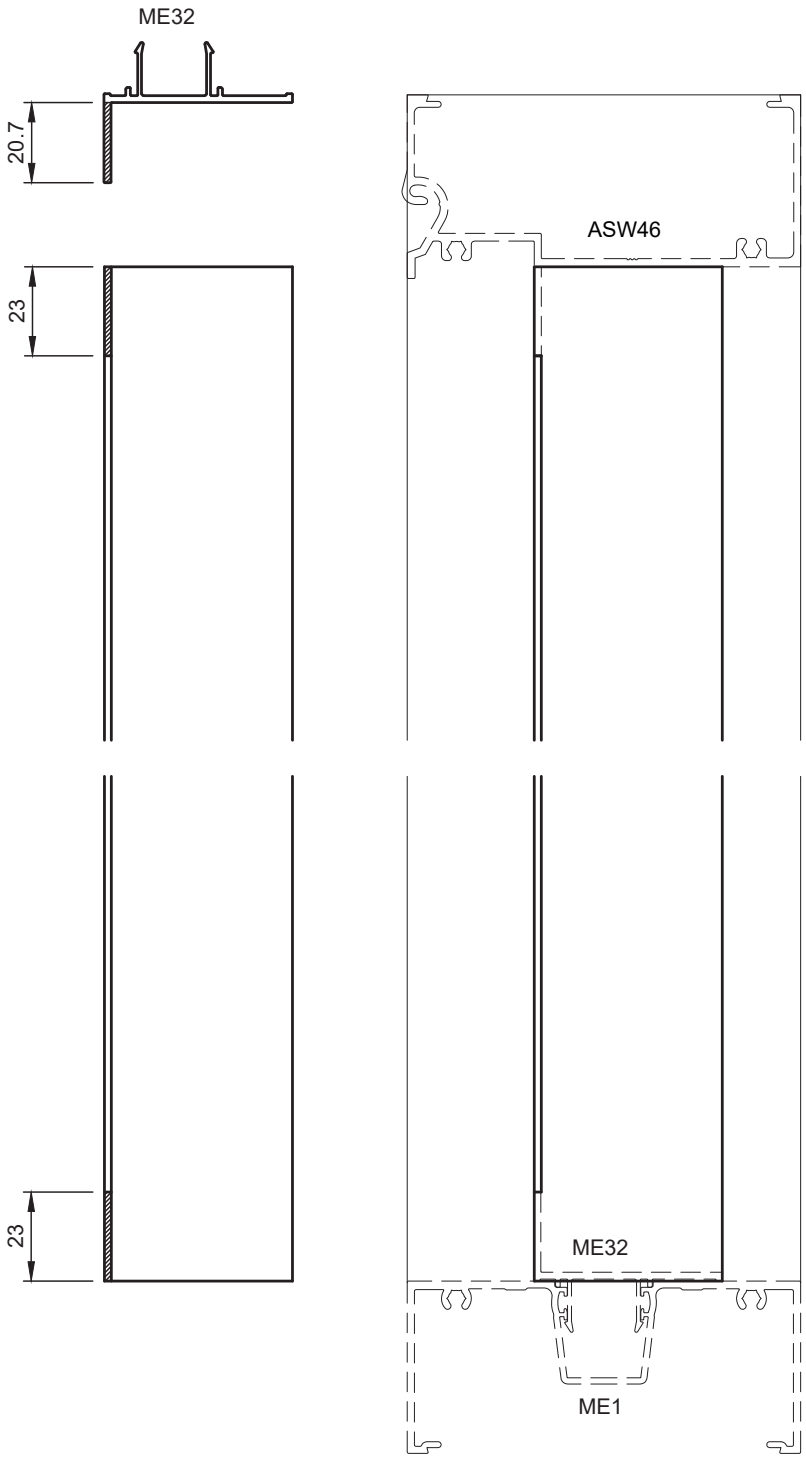
NOTE: FOR TRANSOM WIDTHS OVER 1300mm ADD AN ADDITIONAL SLOT ON TRANSOM CENTRELINE





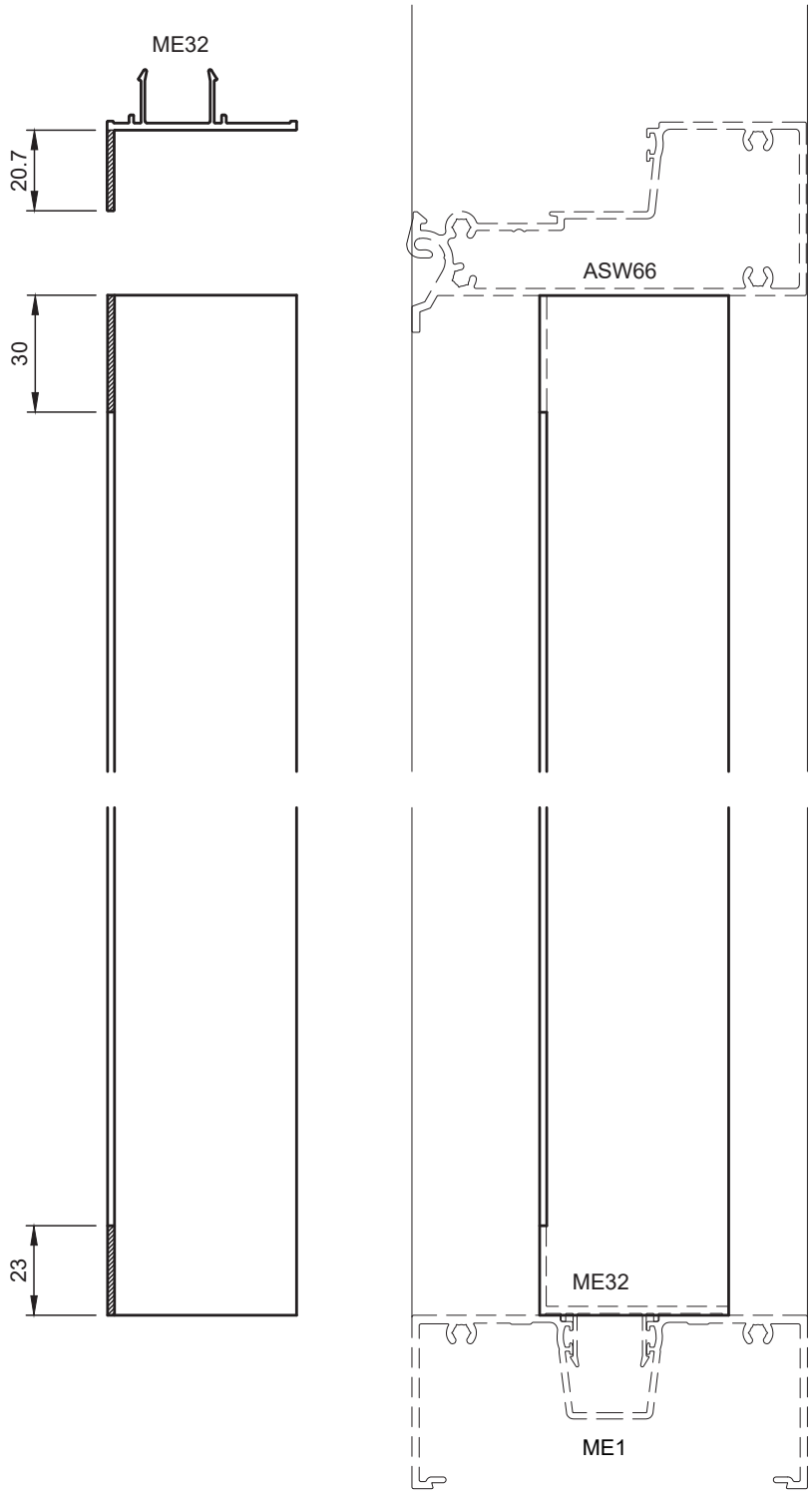
ME32 McArthur Evo Sash Adaptor Preparation for Head & Sill

L.H. DRAWN
R.H. OPPOSITE



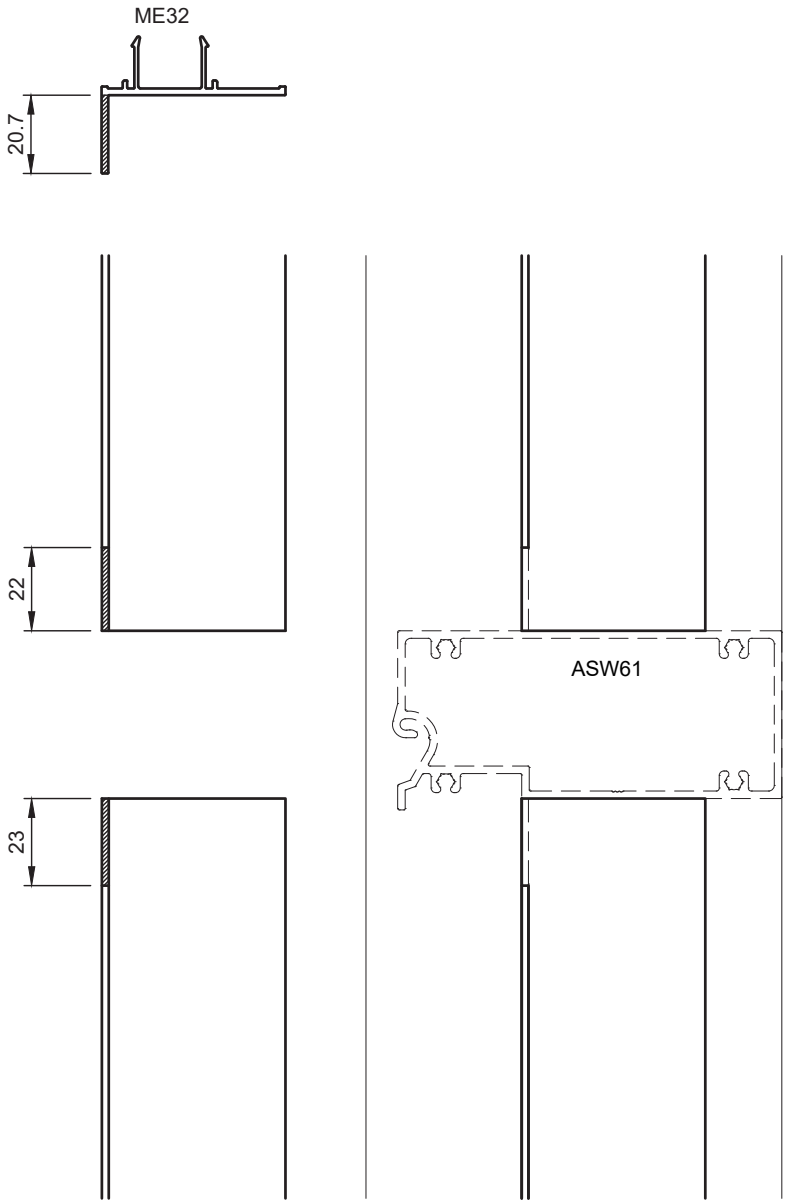
ME32 McArthur Evo Sash Adaptor Preparation for ASW66 Transom & Sill

L.H. DRAWN
R.H. OPPOSITE



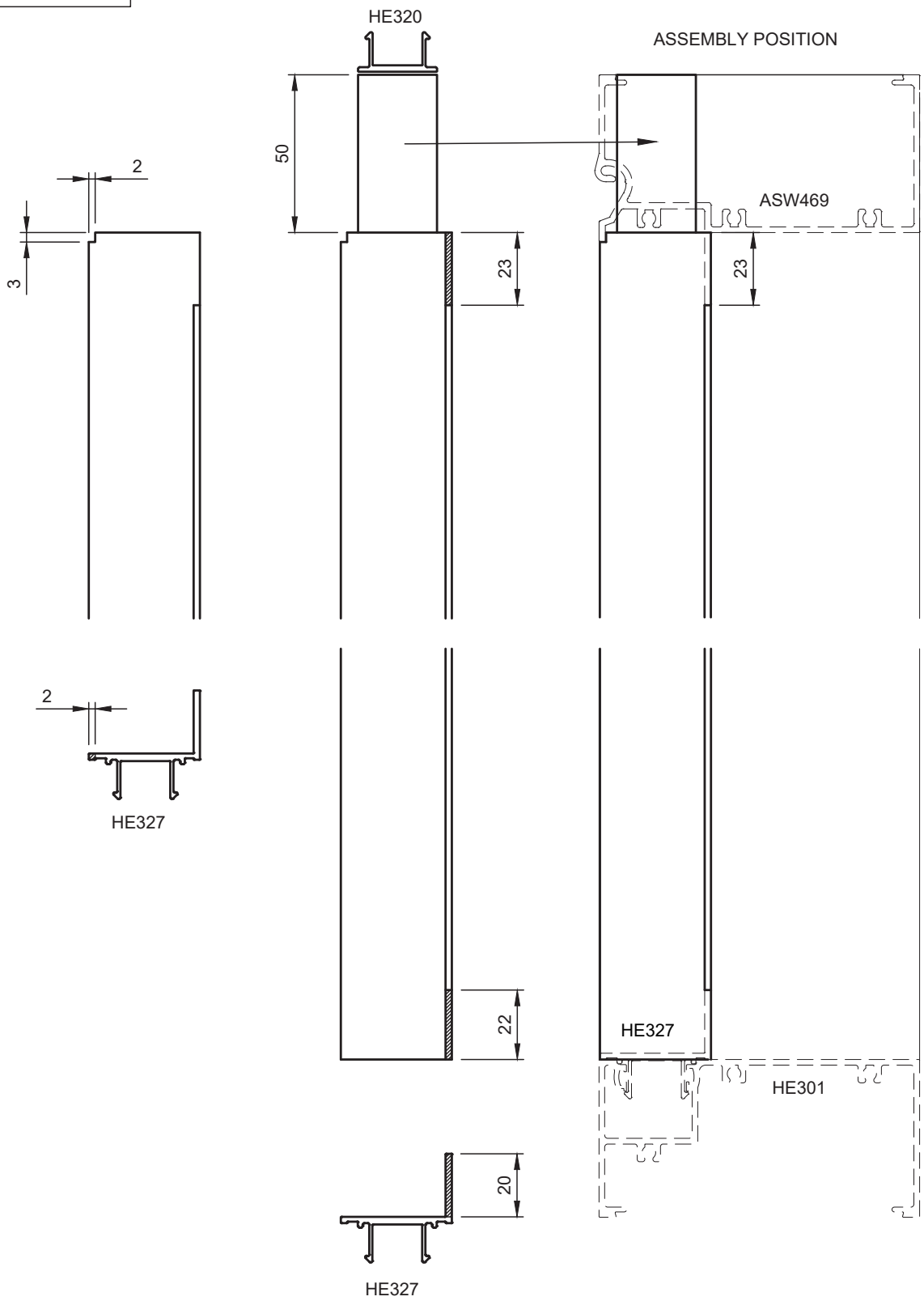
ME32 McArthur Evo Sash Adaptor Preparation for ASW61 Transom

L.H. DRAWN
R.H. OPPOSITE



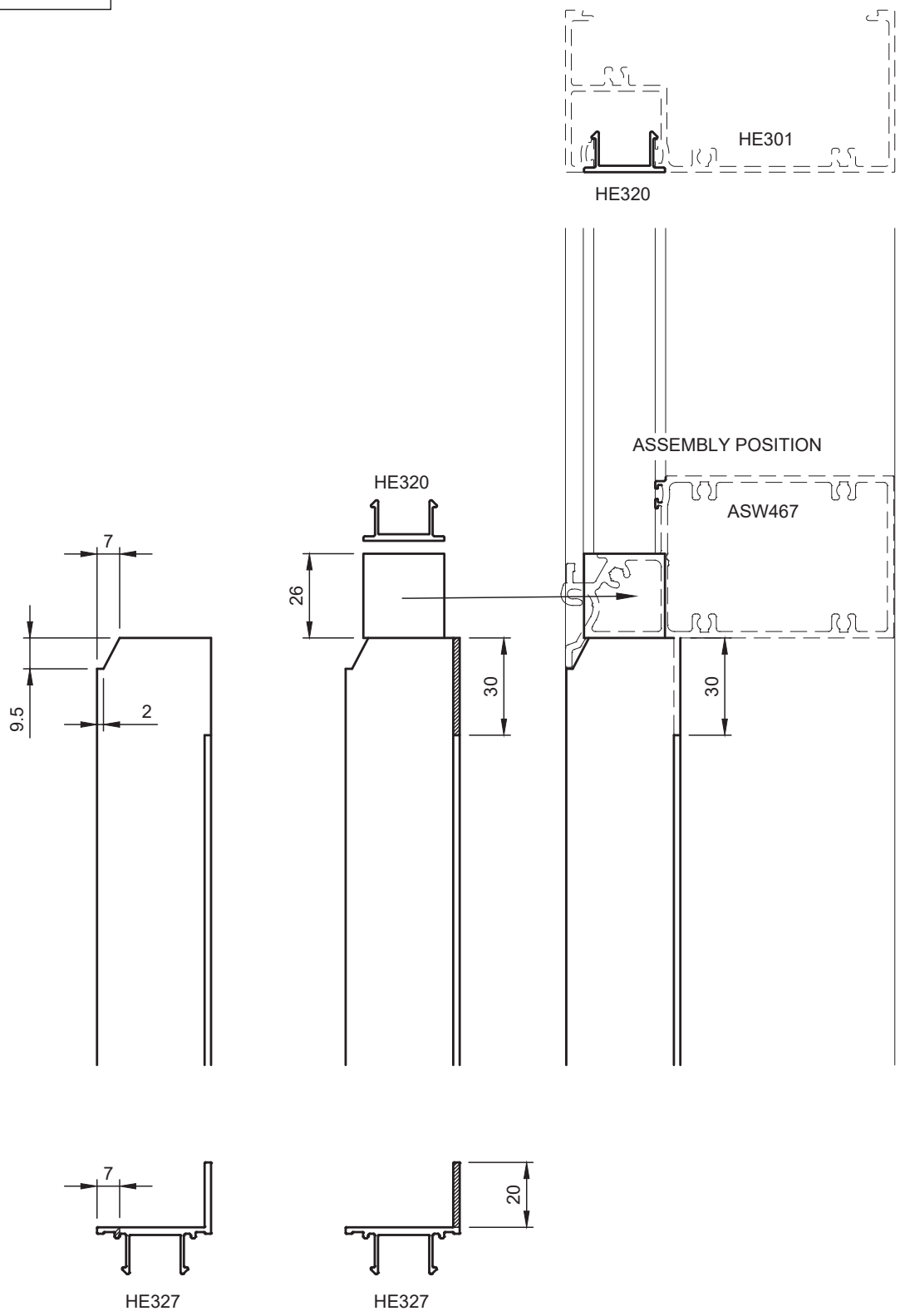
HE327 Hunter Evo SG Sash Adatpor Preparation for Head & Sill

L.H. DRAWN
R.H. OPPOSITE

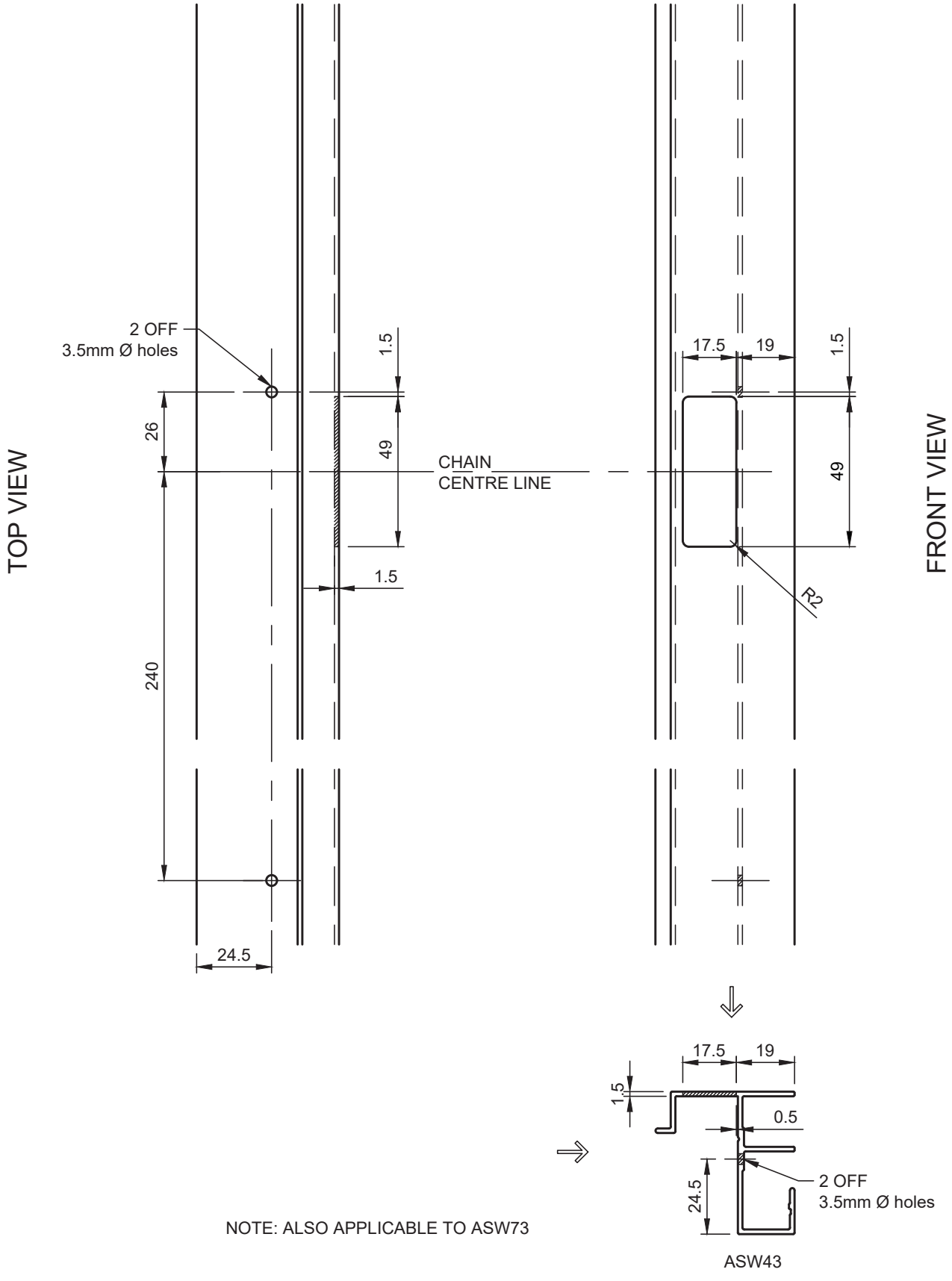


HE327 Hunter Evo SG Sash Adaptor Preparation for ASW467 Transom

L.H. DRAWN
R.H. OPPOSITE

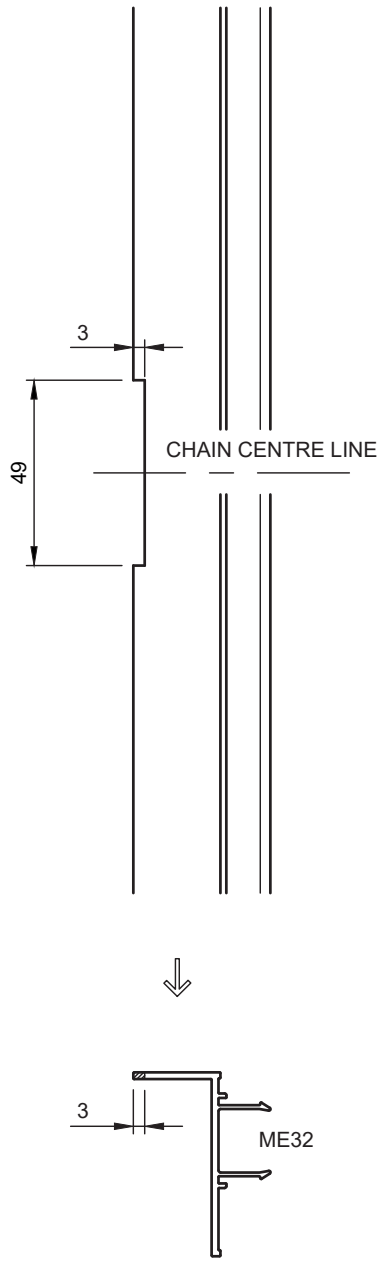


ASW43 Awning Winder Machining

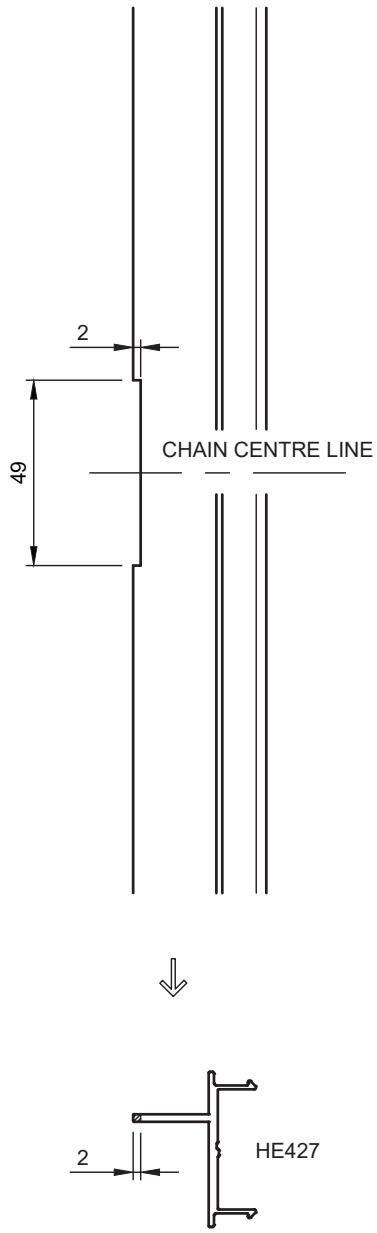


NOTE: ALSO APPLICABLE TO ASW73

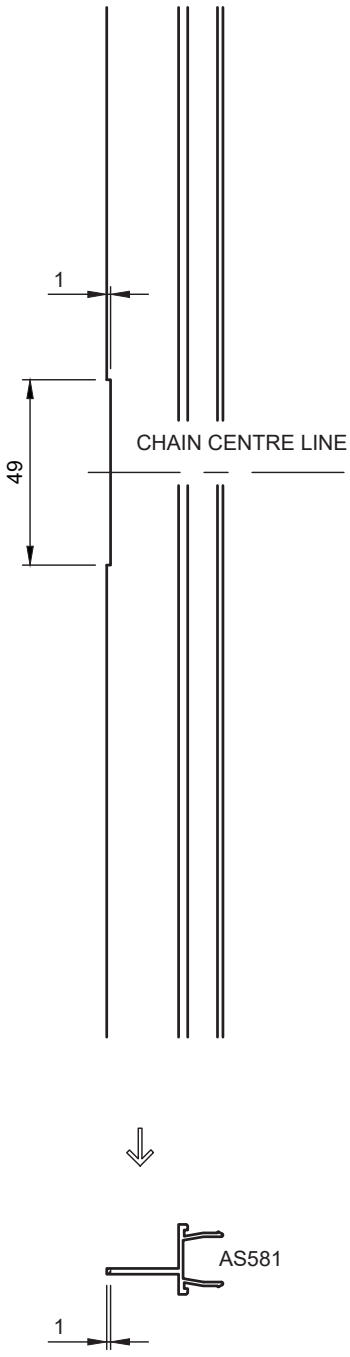
ME32 McArthur Evo Sash Adaptor Chain Winder Notch



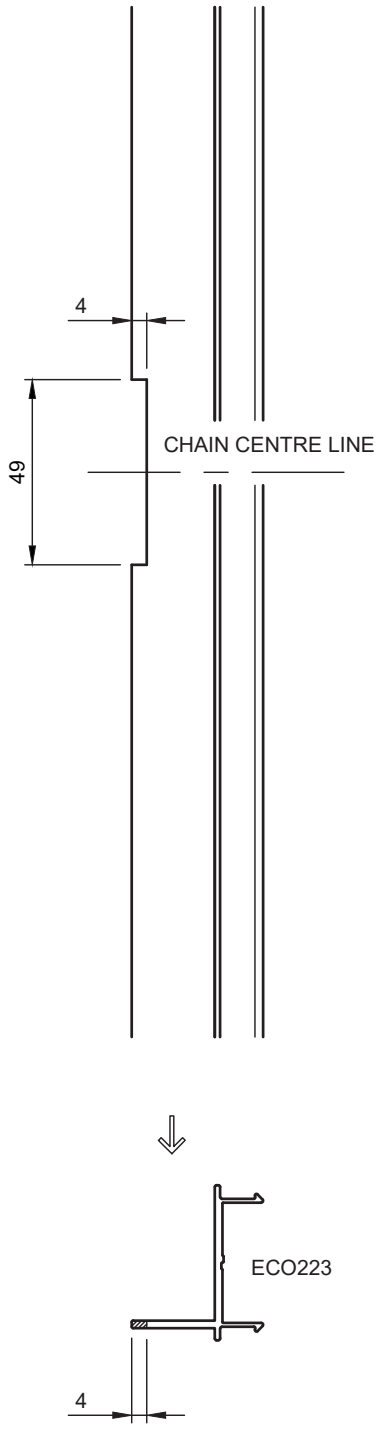
Hunter Evo Sash Adaptor Chain Winder Notch



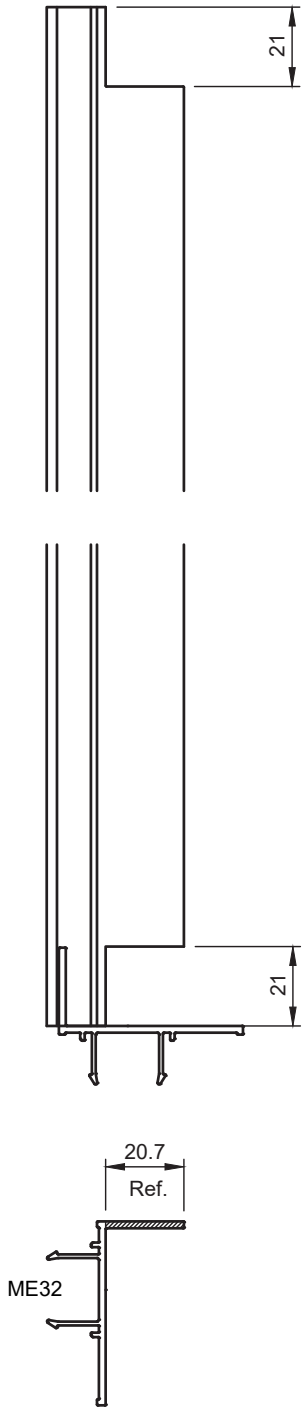
AS581 Derwent Sash Adaptor Chain Winder Notch



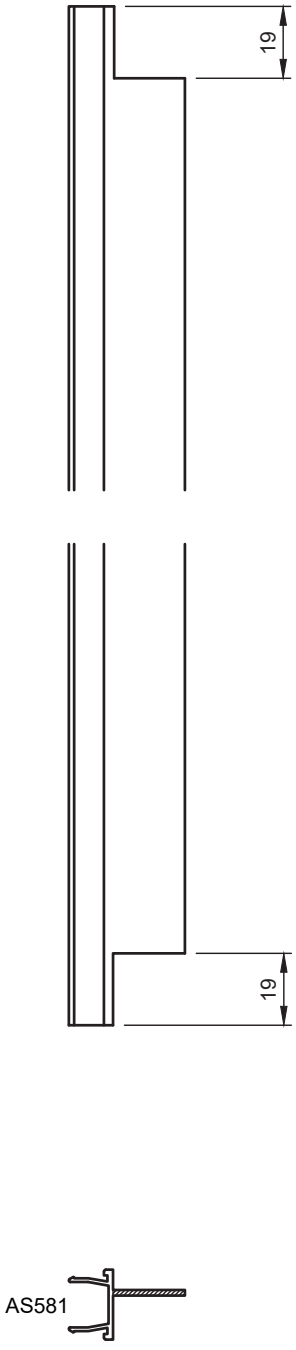
ECO223 ecoFRAMEplus 101.6mm Sash Adaptor Chain Winder Notch



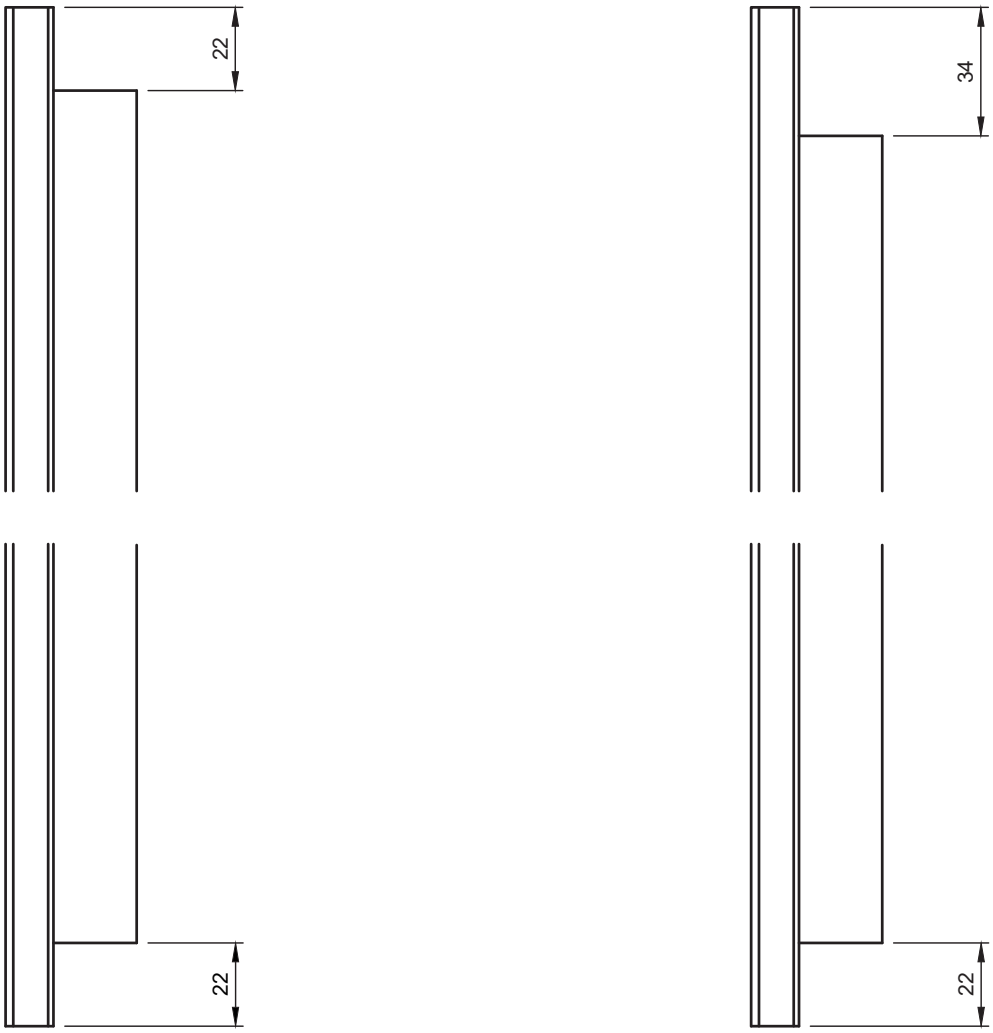
ME32 McArthur Evo Jamb Sash Adaptor Notch

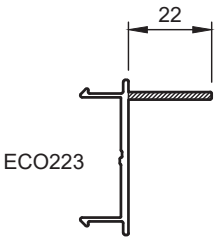


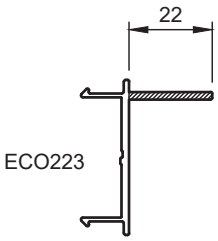
AS581 Derwent Jamb Sash Adaptor Notch



ECO223 ecoFRAMEplus 101.6mm Jamb Sash Adaptor Notch

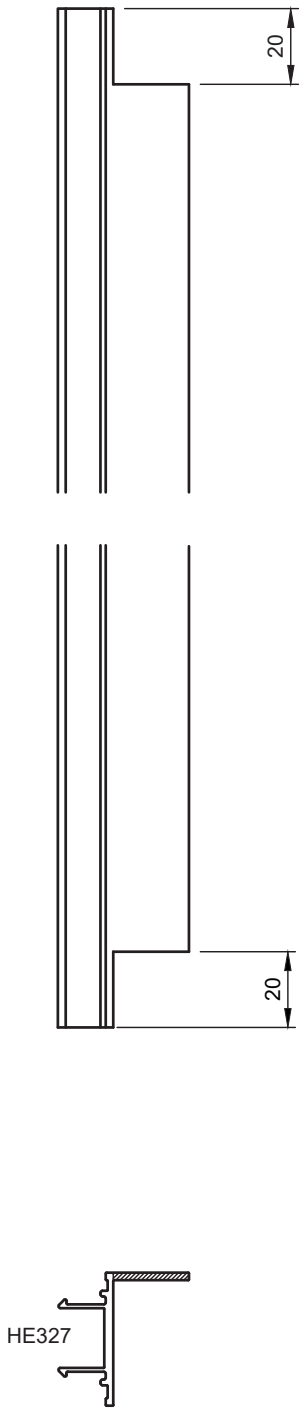




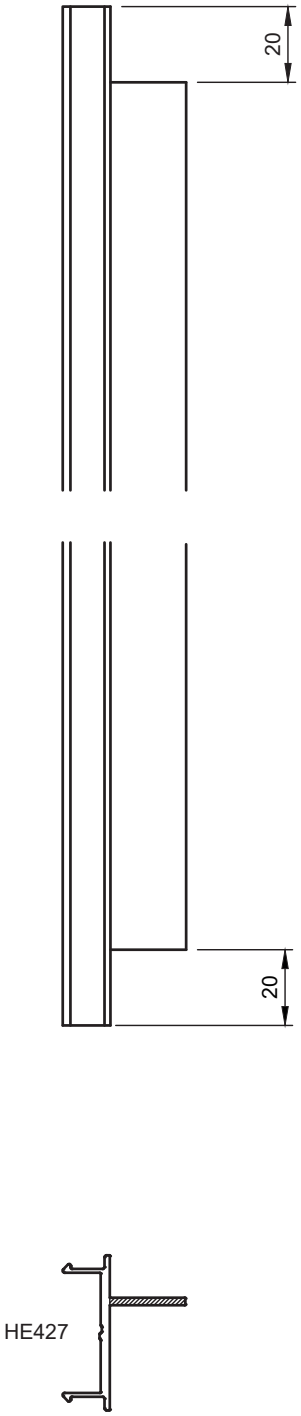


NOTE: MACHINING APPLICABLE WHEN USING ASW46, ASW60, ASW61 AND ASW469 HEADS

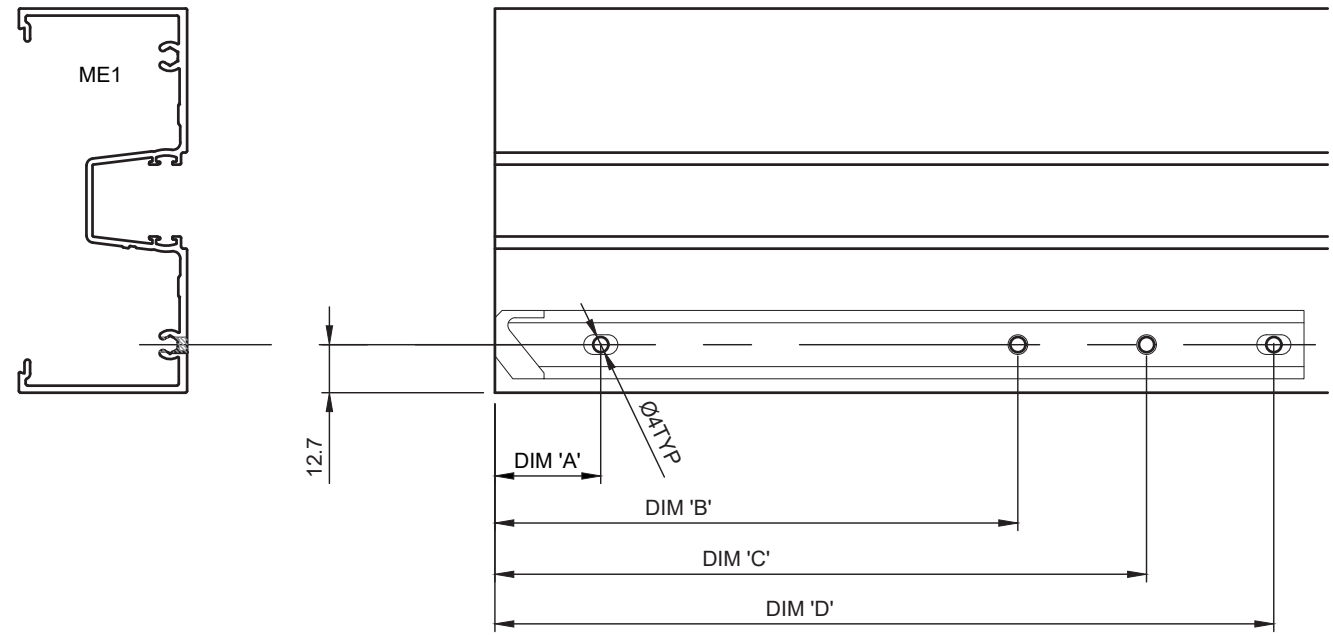
HE327 Hunter Evo SG Jamb Sash Adaptor Notch

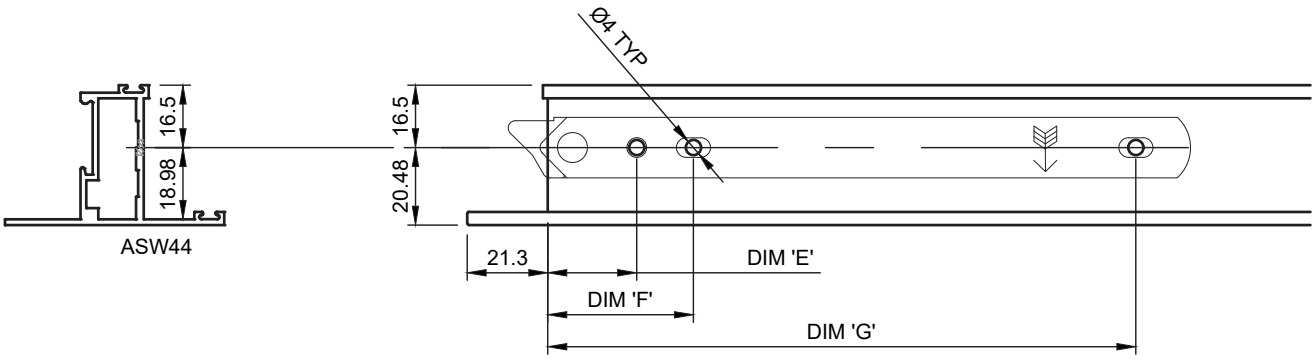


HE427 Hunter Evo DG Jamb Sash Adaptor Notch



Casement Stay Machining for Alspec Stays - All Framing



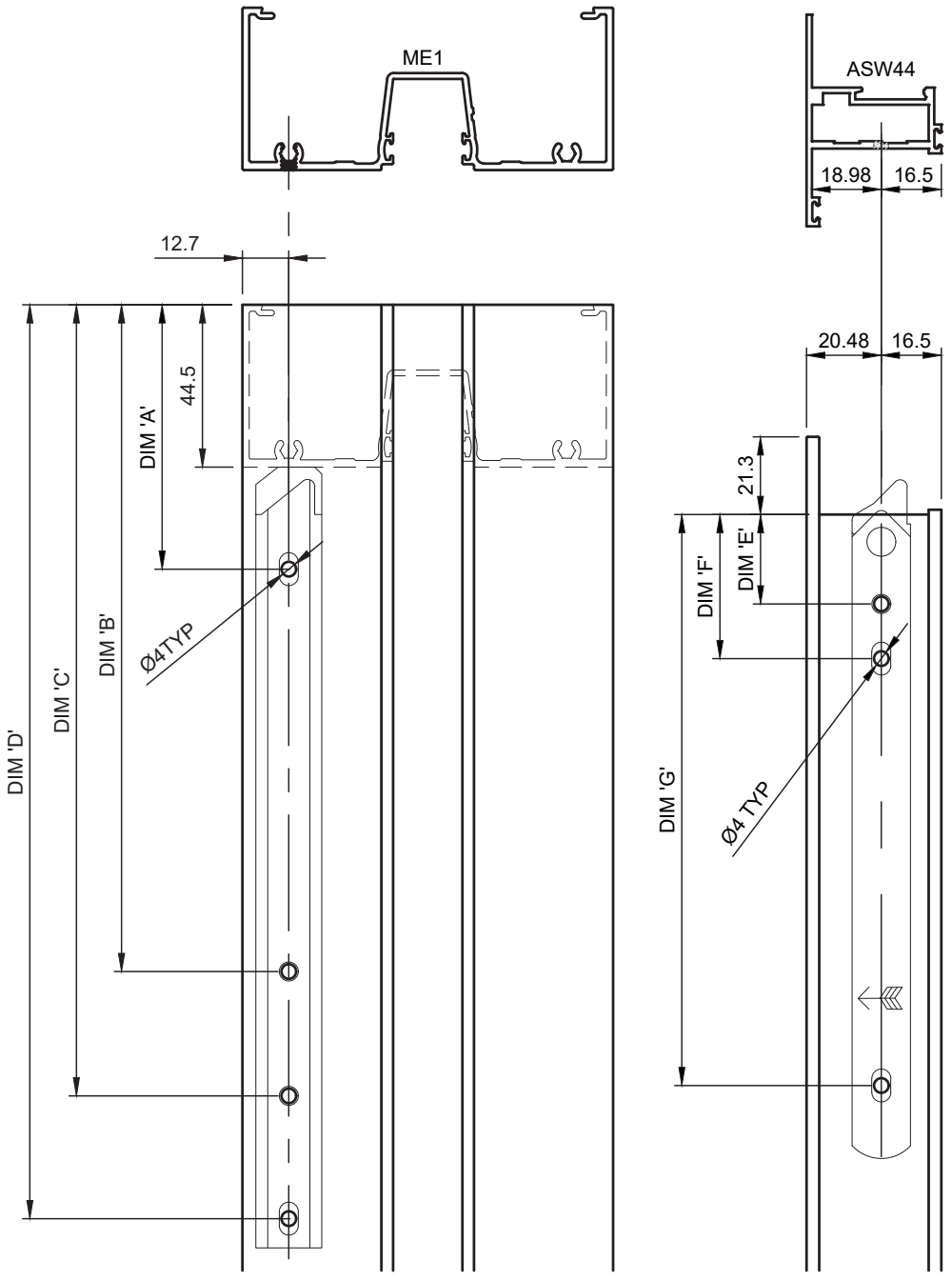


L.H. DRAWN
R.H. OPPOSITE

					FRAME HOLES				SASH HOLES		
STAY			CAVITY	MAX KG	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	DIM 'E'	DIM 'F'	DIM 'G'
CASEMENT	1377941	AS12SH 310mm	14mm	24kg	30*	220	-	302*	24.5	66.5*	247.5*
	1377942	AS16SH 412mm	14mm	30kg	30*	315	-	405*	24.5	124*	333.5*

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

Awning Stay Machining for Alspec Stays in McArthur Evo

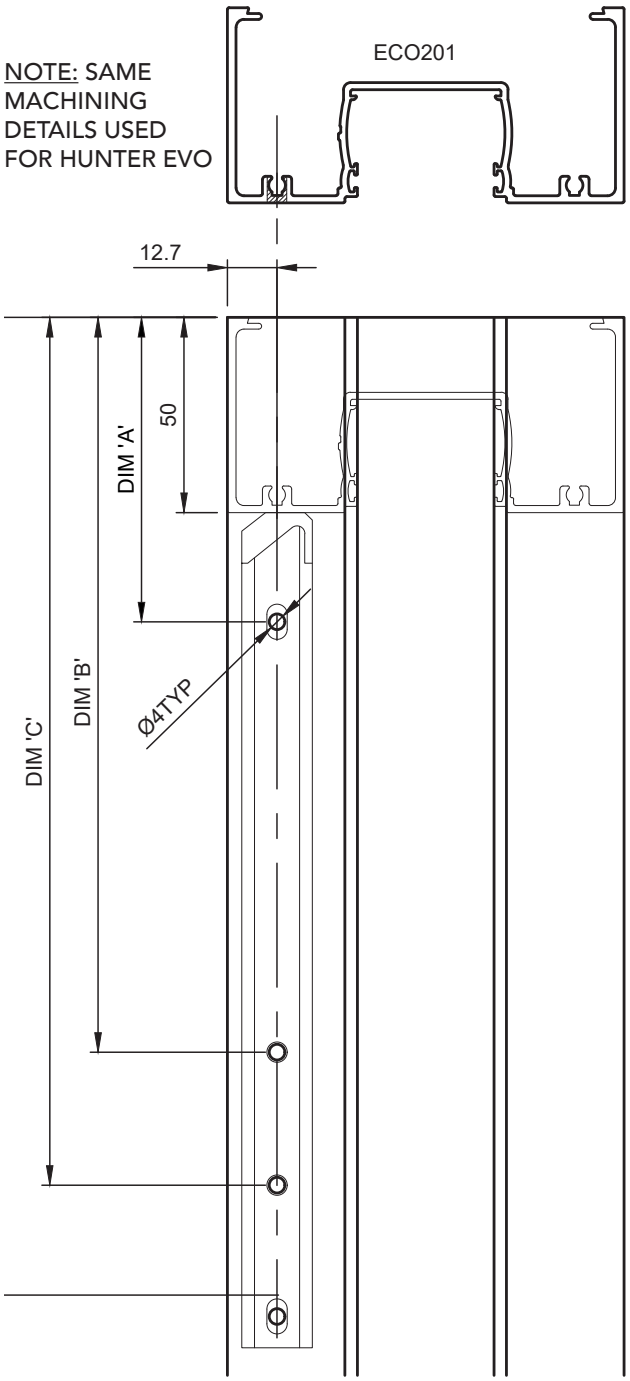


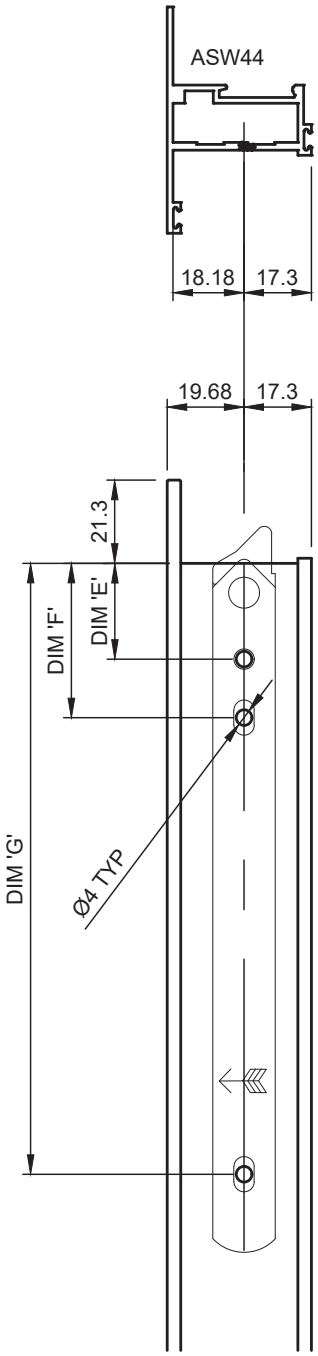
NOTE: FOR MACHINING COMPLETED BY HAND WE RECOMMEND TO DRILL SLOT HOLE LOCATIONS FIRST TO ALLOW FOR ADJUSTMENT. THE REMAINING HOLES CAN THEN BE DRILLED ONCE THE STAY HAS BEEN FITTED. SLOT LOCATIONS ARE MARKED WITH AN * (STAY DRAWN IS A REPRESENTATION ONLY)

					FRAME HOLES				SASH HOLES		
STAY			CAVITY	MAX KG	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	DIM 'E'	DIM 'F'	DIM 'G'
AWNING	1377864	AS8TH 214mm	13mm	12kg	72.5*	184.5	-	250.5*	24.5	39.5*	156.5*
	1377865	AS10TH 270mm	13mm	16kg	74.5*	254.5	-	306.5*	24.5	53.5*	178.5*
	1377866	AS12TH 310mm	13mm	20kg	74.5*	264.5	-	346.5*	24.5	67.5*	200.5*
	1377870	AS16TH 412mm	13mm	24kg	74.5*	359.5	-	449.5*	24.5	125*	251.5*
	1377871	AS20TH 512mm	13mm	28kg	74.5*	249.5	394.5	550.5*	24.5	194.5*	295.5*
	1377872	AS24TH 615mm	13mm	35kg	74.5*	269.5	460.5	652.5*	24.5	244.5*	346.5*

Awning Stay Machining for Alspec Stays in ecoFRAMEplus & Hunter Evo

NOTE: SAME MACHINING DETAILS USED FOR HUNTER EVO

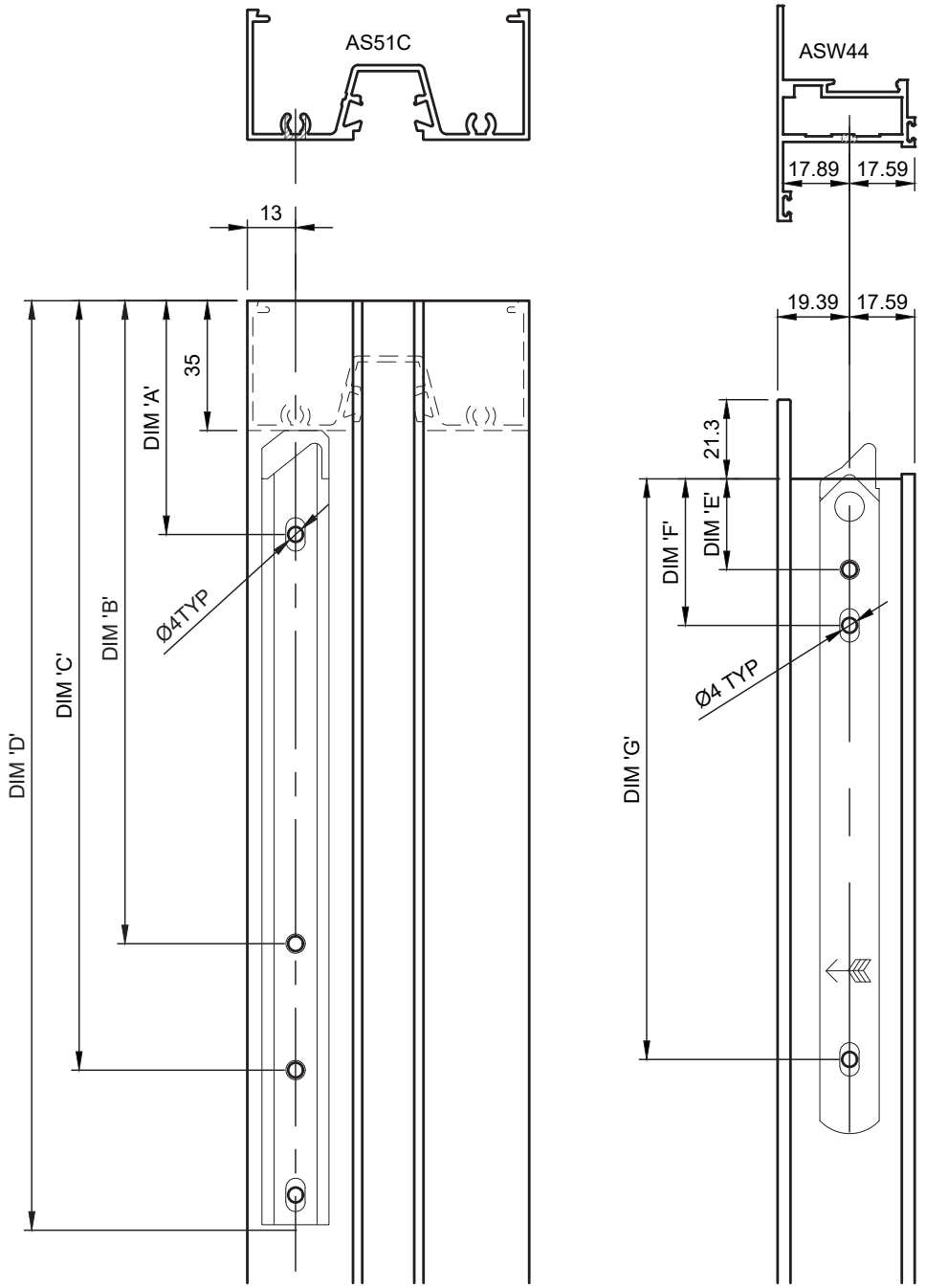




NOTE: FOR MACHINING COMPLETED BY HAND WE RECOMMEND TO DRILL SLOT HOLE LOCATIONS FIRST TO ALLOW FOR ADJUSTMENT. THE REMAINING HOLES CAN THEN BE DRILLED ONCE THE STAY HAS BEEN FITTED. SLOT LOCATIONS ARE MARKED WITH AN * (STAY DRAWN IS A REPRESENTATION ONLY)

					FRAME HOLES				SASH HOLES		
STAY			CAVITY	MAX KG	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	DIM 'E'	DIM 'F'	DIM 'G'
AWNING	1377864	AS8TH 214mm	13mm	12kg	78*	190	-	256*	24.5	39.5*	156.5*
	1377865	AS10TH 270mm	13mm	16kg	80*	260	-	312*	24.5	53.5*	178.5*
	1377866	AS12TH 310mm	13mm	20kg	80*	270	-	352*	24.5	67.5*	200.5*
	1377870	AS16TH 412mm	13mm	24kg	80*	365	-	455*	24.5	125*	251.5*
	1377871	AS20TH 512mm	13mm	28kg	80*	255	355	556*	24.5	194.5*	295.5*
	1377872	AS24TH 615mm	13mm	35kg	80*	275	466	658*	24.5	244.5*	346.5*

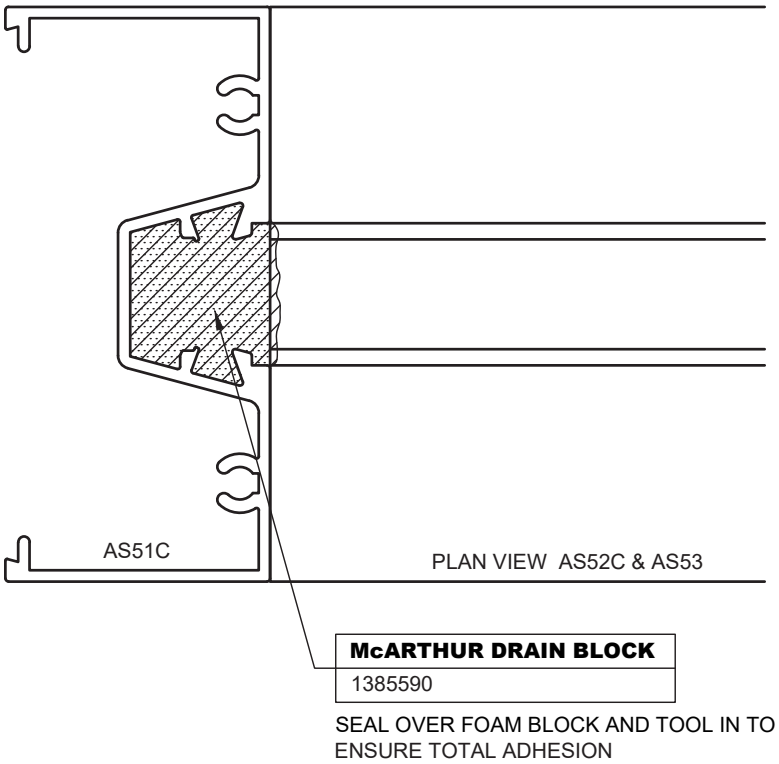
Awning Stay Machining for Alspec Stays in Derwent



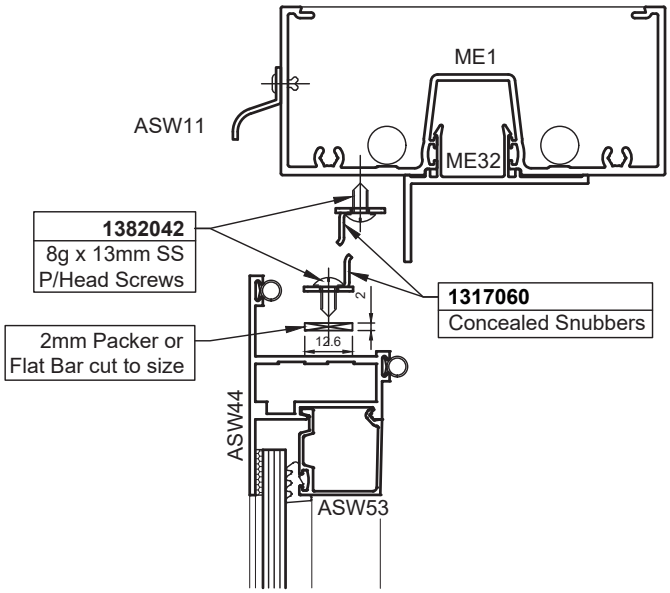
NOTE: FOR MACHINING COMPLETED BY HAND WE RECOMMEND TO DRILL SLOT HOLE LOCATIONS FIRST TO ALLOW FOR ADJUSTMENT. THE REMAINING HOLES CAN THEN BE DRILLED ONCE THE STAY HAS BEEN FITTED. SLOT LOCATIONS ARE MARKED WITH AN * (STAY DRAWN IS A REPRESENTATION ONLY)

					FRAME HOLES				SASH HOLES		
STAY			CAVITY	MAX KG	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	DIM 'E'	DIM 'F'	DIM 'G'
AWNING	1377864	AS8TH 214mm	13mm	12kg	63*	175	-	241*	24.5	39.5*	156.5*
	1377865	AS10TH 270mm	13mm	16kg	65*	245	-	297*	24.5	53.5*	178.5*
	1377866	AS12TH 310mm	13mm	20kg	65*	255	-	337*	24.5	67.5*	200.5*
	1377870	AS16TH 412mm	13mm	24kg	65*	350	-	440*	24.5	125*	251.5*
	1377871	AS20TH 512mm	13mm	28kg	65*	240	355	541*	24.5	194.5*	295.5*
	1377872	AS24TH 615mm	13mm	35kg	65*	260	451	643*	24.5	244.5*	346.5*

Transom Sealing Detail Derwent Framing



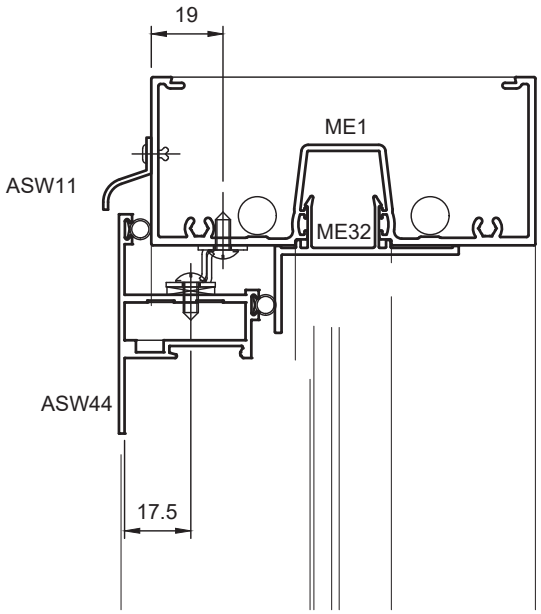
Snubber Assembly Details - McArthur Evo



AWNING WINDOWS
Snubbers are required for Awning windows greater than 900mm wide. To be installed between the head & the sash, in the middle.

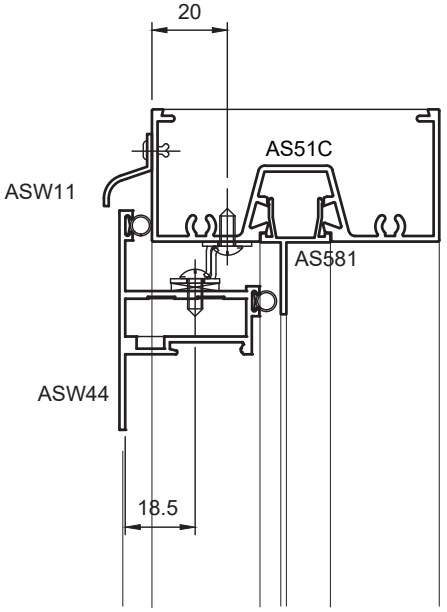
CASEMENT WINDOWS
Snubbers are required for Casement windows greater than 1300mm high. To be installed between the jamb and sash, on the hinged side.

McARTHUR EVO 101.6mm
CENTRE POCKET FRAMING

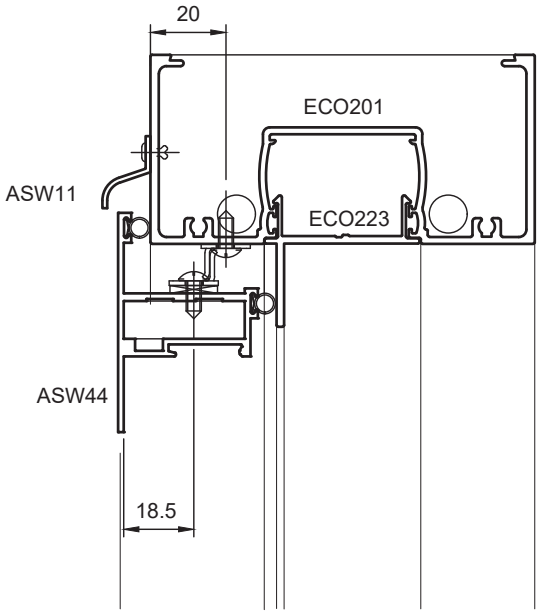


Snubber Assembly Details - Derwent & ecoFRAMEplus

DERWENT 76mm
CENTRE POCKET FRAMING

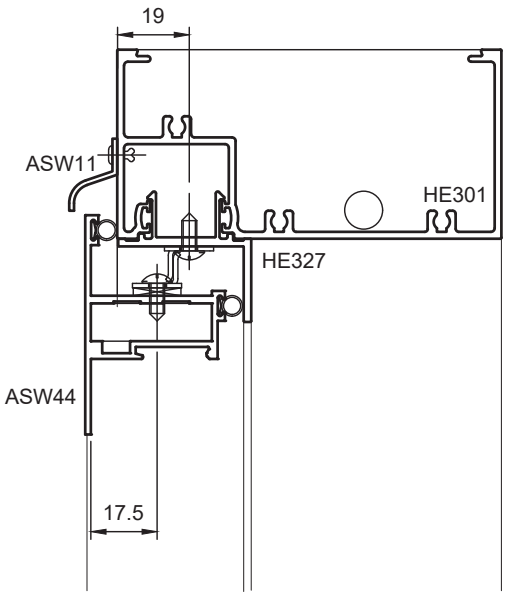


ecoFRAMEplus DG 101.6mm
CENTRE POCKET FRAMING

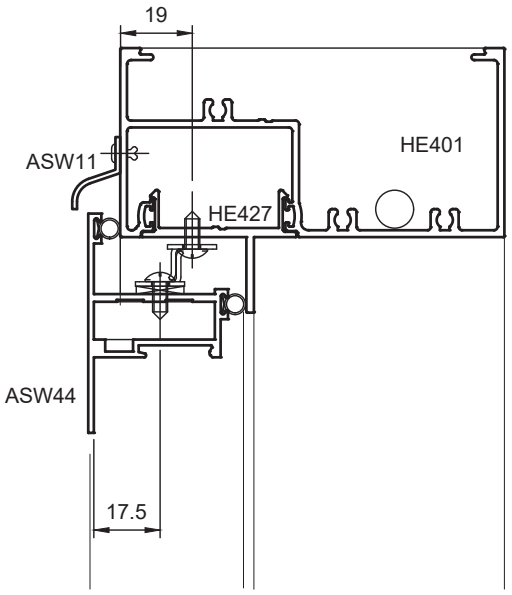


Snubber Assembly Details - Hunter Evo

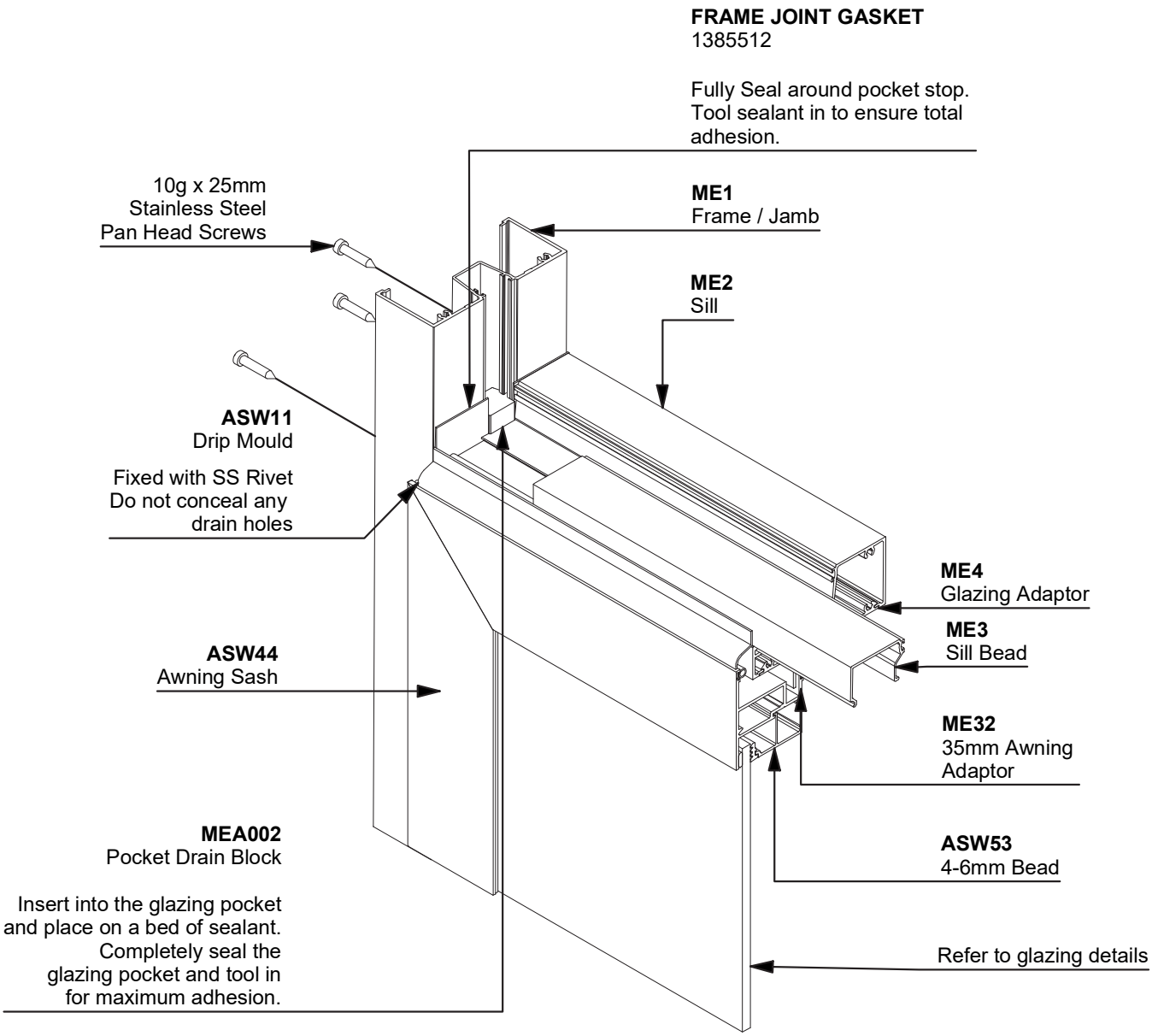
HUNTER EVO SG 101.6mm
FLUSH GLAZED FRAMING



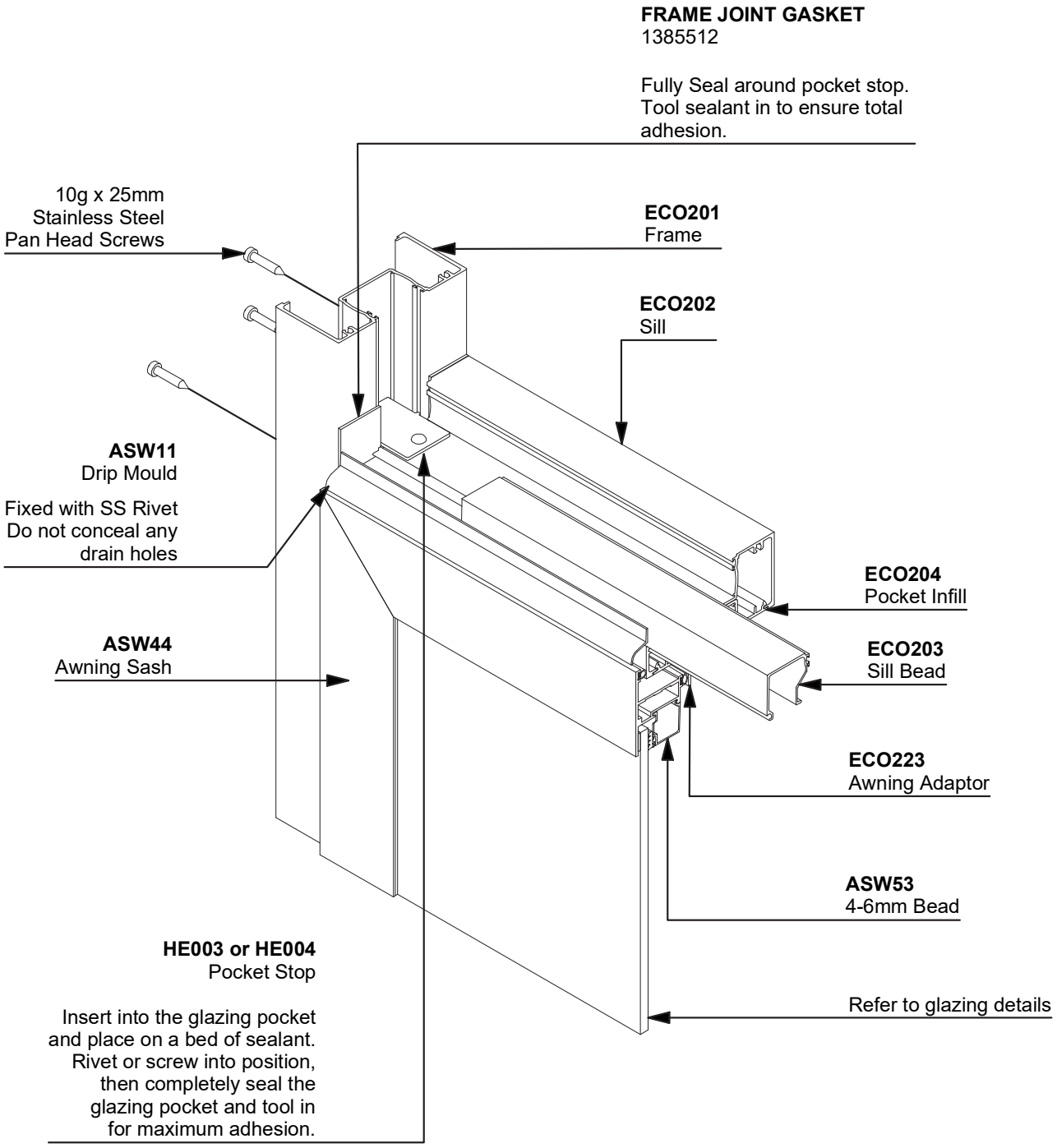
HUNTER EVO DG 101.6mm
FLUSH GLAZED FRAMING



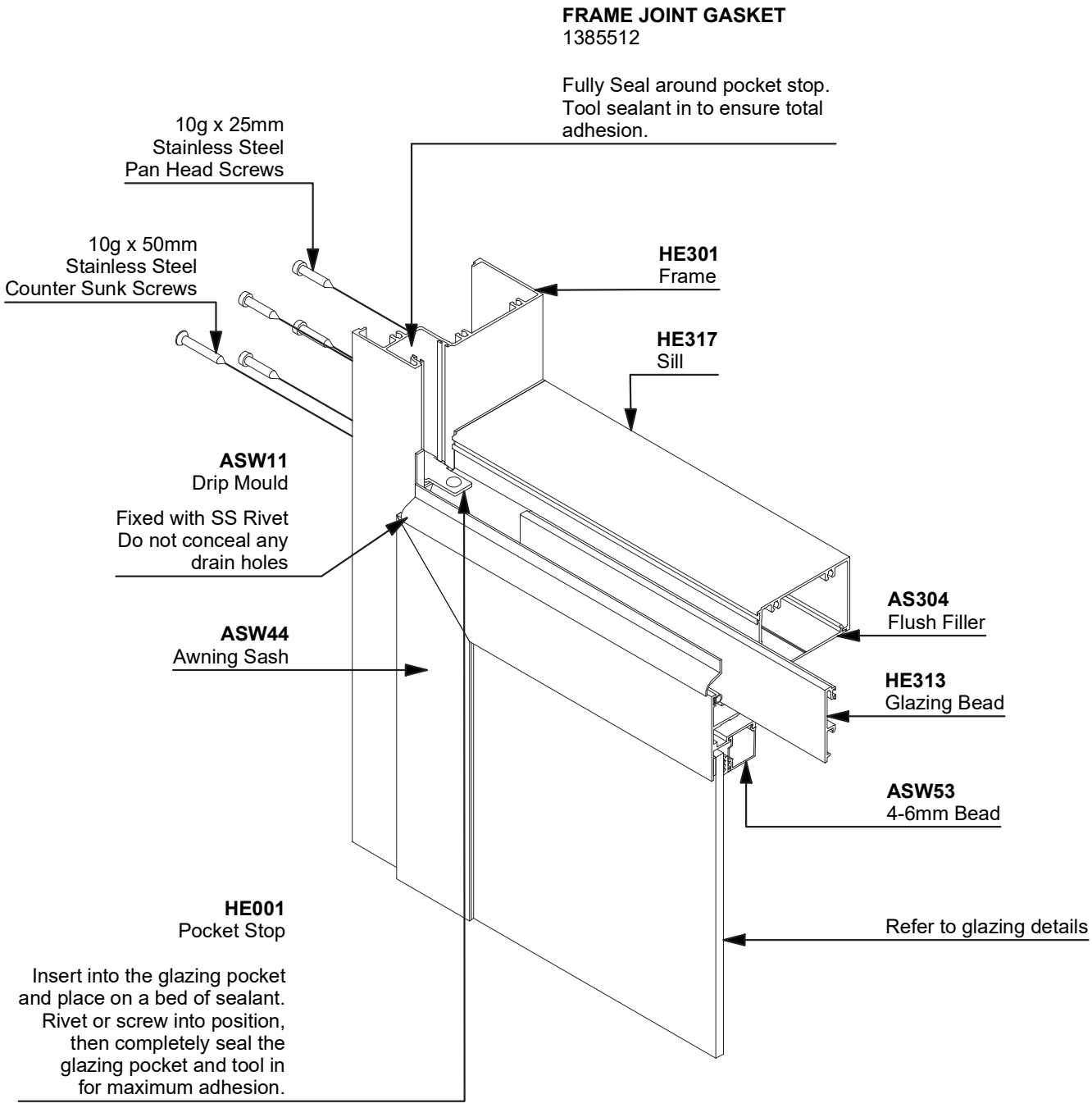
McArthur Evo Framing & Transom Sealing Detail



ecoFRAMEplus 101.6mm Framing & Transom Sealing Detail

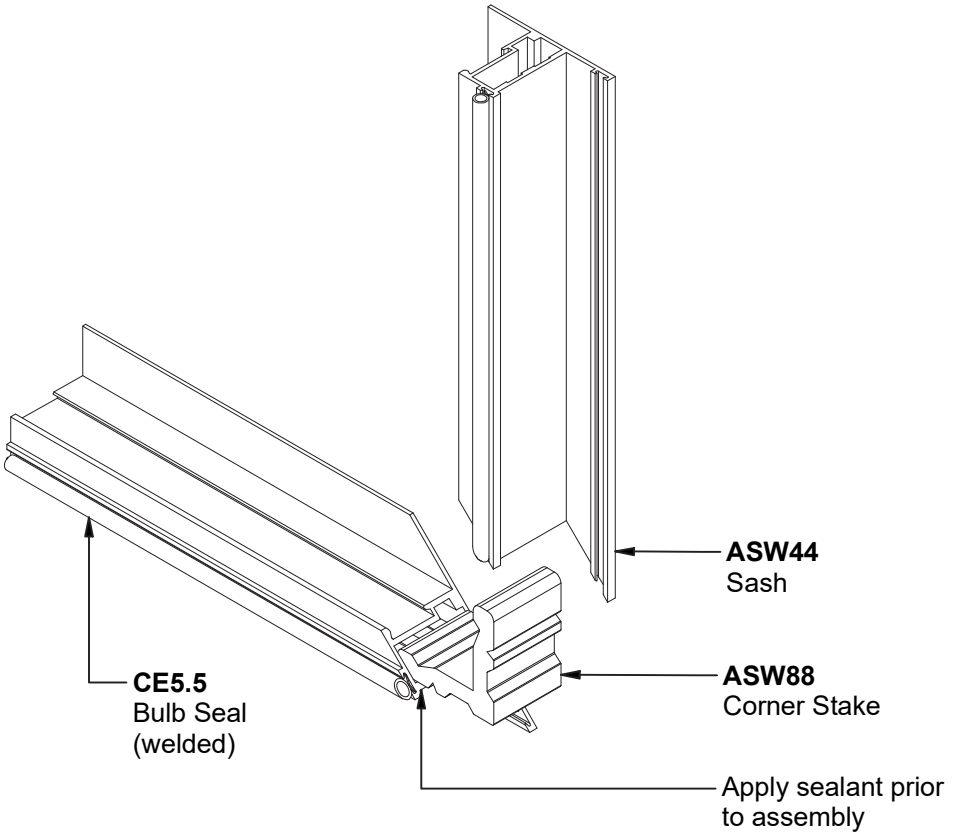


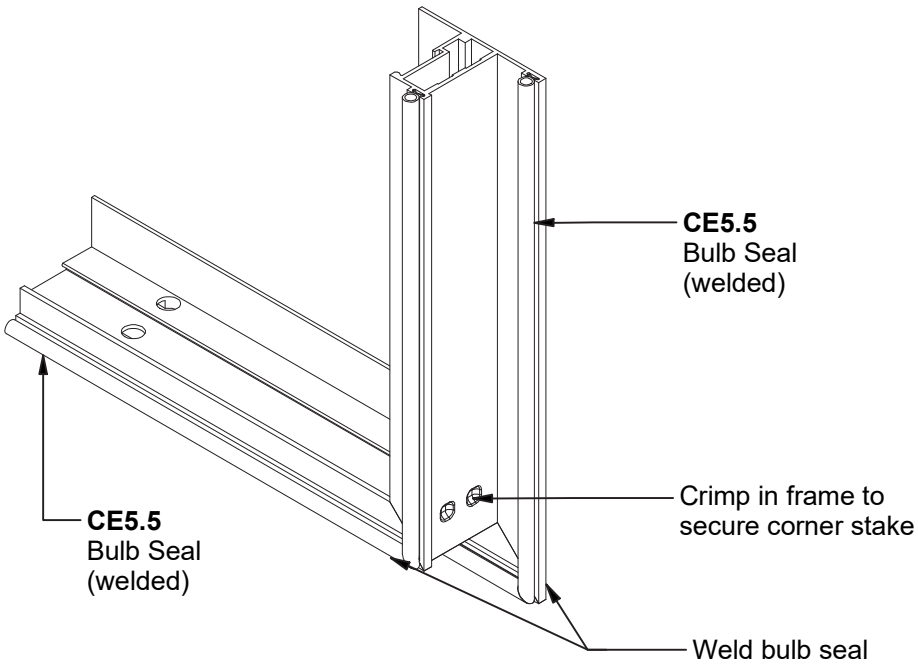
Hunter Evo Framing & Transom Sealing Detail



Note: Sash may need to be removed first for re-glazing fixed high lites.

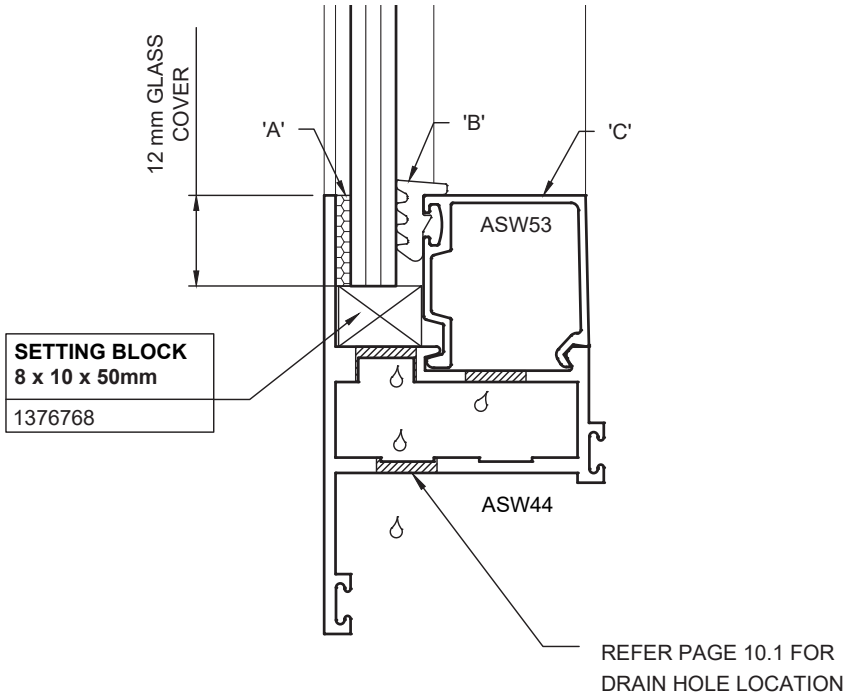
ASW44 Sash Corner Assembly





Note: A crimp machine is required to assemble sash

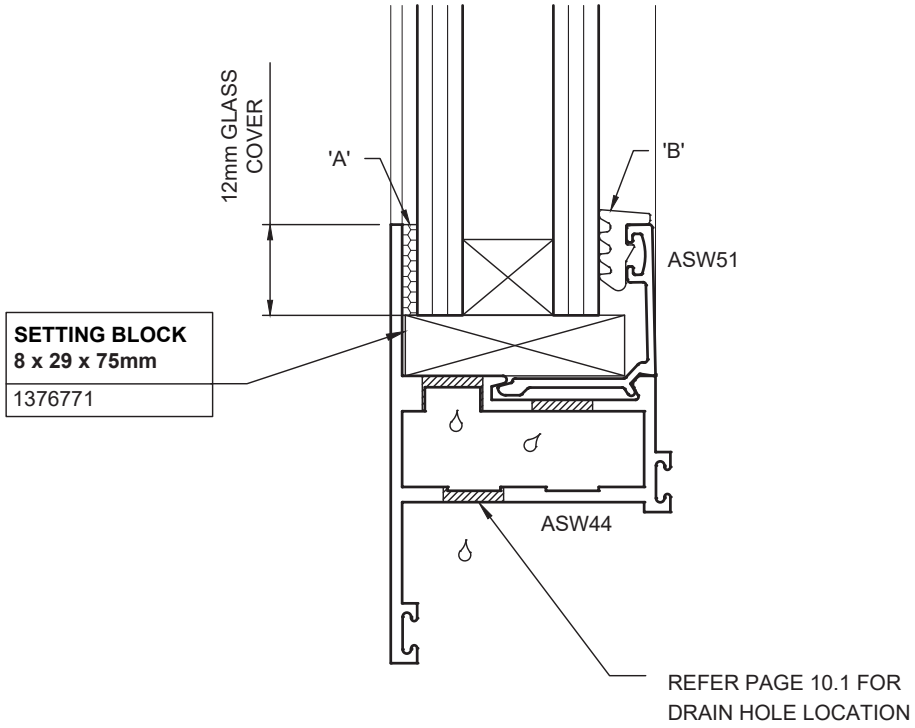
ASW44 - Single Glazed



NOTE: REFER PAGE 12.6 FOR GLASS SETTING BLOCK LOCATIONS

	'A' GLAZING TAPE		'B' GLAZING WEDGE		'C' BEAD
GLASS THICKNESS	REF.	CODE	ID COLOUR	CODE	CODE
4mm	4.8 x 12mm	1385577	GR45 - BLUE	1313057	ASW53
5mm	3.2 x 12mm	1385549	GR45 - BLUE	1313057	ASW53
6 / 6.38mm	1.6 x 12mm	1385580	GR44 - WHITE	1313056	ASW53
8 / 8.38mm	4.8 x 12mm	1385577	GR45 - BLUE	1313057	ASW52
10mm	1.6 x 12mm	1385580	GR46 - YELLOW	1313058	ASW52
10.38mm	3.2 x 12mm	1385549	GR44 - WHITE	1313056	ASW52
12mm	1.6 x 12mm	1385580	GR44 - WHITE	1313056	ASW52

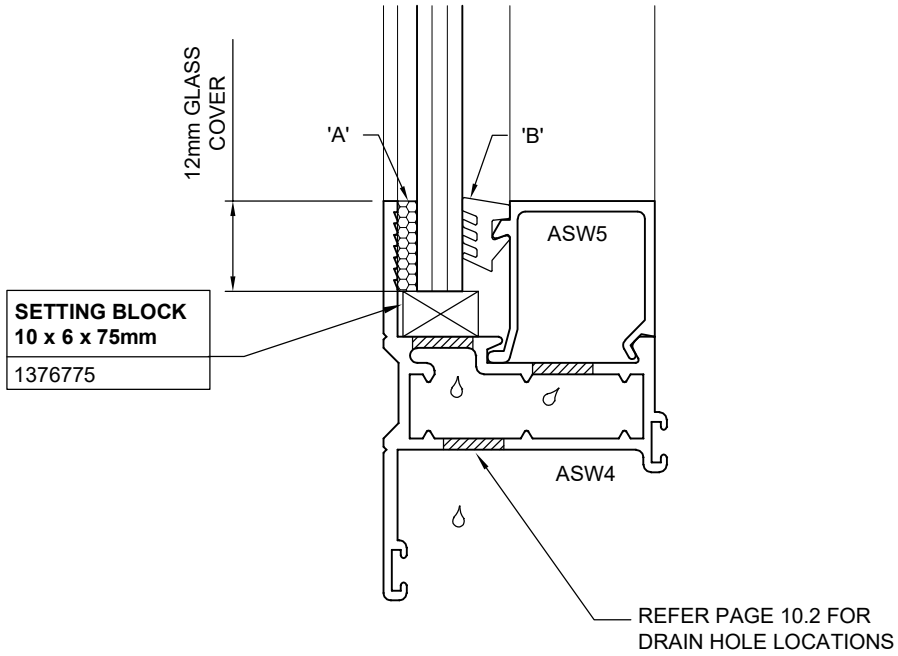
ASW44 - Double Glazed



NOTE: REFER PAGE 12.6 FOR GLASS SETTING BLOCK LOCATIONS

	'A' GLAZING TAPE		'B' GLAZING WEDGE	
GLASS THICKNESS	REF.	CODE	ID COLOUR	CODE
18mm	4.8 x 12mm	1385577	GR45 - BLUE	1313057
20mm	3.2 x 12mm	1385549	GR45 - BLUE	1313057
22mm	1.6 x 12mm	1385580	GR46 - YELLOW	1313058
24mm	1.6 x 12mm	1385580	GR44 - WHITE	1313056

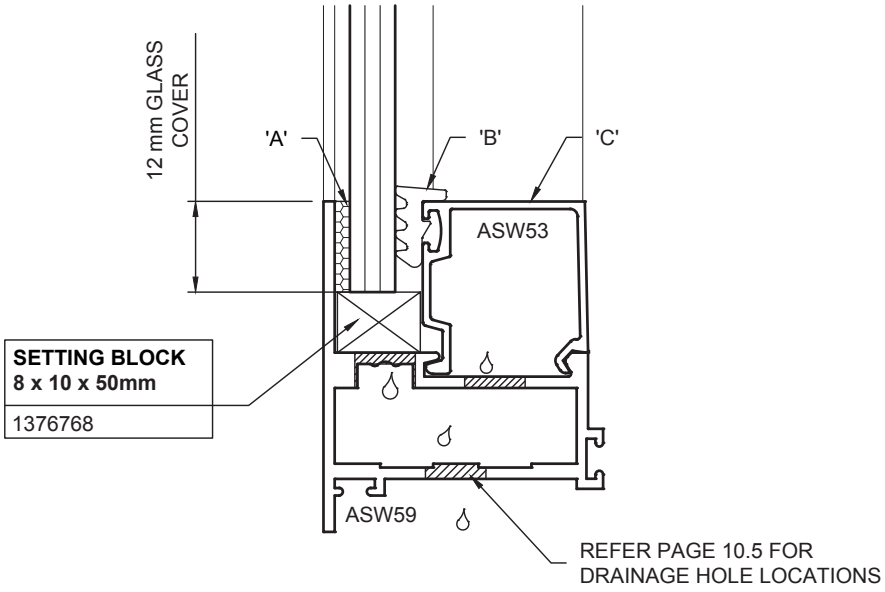
ASW4 - Single Glazing



NOTE: REFER PAGE 12.6 FOR GLASS SETTING BLOCK LOCATIONS

	'A' GLAZING TAPE		'B' INNER WEDGE	
GLASS THICKNESS	REF.	CODE	ID COLOUR	CODE
5mm	4.8 x 12mm	1385577	GR3	1313015
6 / 6.38mm	3.2 x 12mm	1385549	GR3	1313015

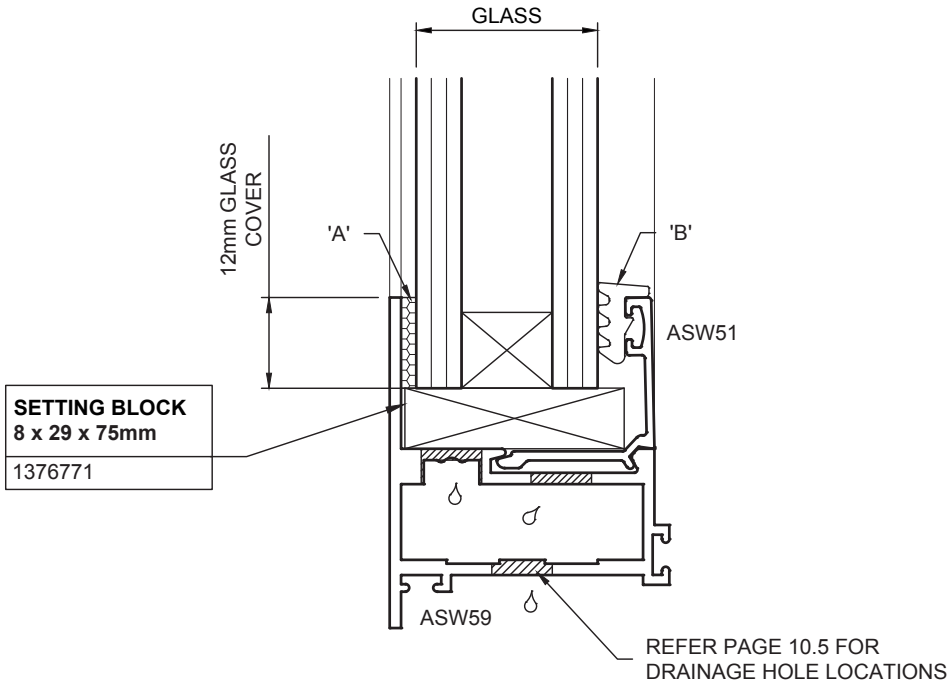
ASW59 - Single Glazed



NOTE: REFER PAGE 12.6 FOR GLASS SETTING BLOCK LOCATIONS

	'A' GLAZING TAPE		'B' GLAZING WEDGE		'C' BEAD
GLASS THICKNESS	REF.	CODE	ID COLOUR	CODE	CODE
4mm	4.8 x 12mm	1385577	GR45 - BLUE	1313057	ASW53
5mm	3.2 x 12mm	1385549	GR45 - BLUE	1313057	ASW53
6 / 6.38mm	1.6 x 12mm	1385580	GR44 - WHITE	1313056	ASW53
8 / 8.38mm	4.8 x 12mm	1385577	GR45 - BLUE	1313057	ASW52
10mm	1.6 x 12mm	1385580	GR46 - YELLOW	1313058	ASW52
10.38mm	3.2 x 12mm	1385549	GR44 - WHITE	1313056	ASW52
12mm	1.6 x 12mm	1385580	GR44 - WHITE	1313056	ASW52

ASW59 - Double Glazed

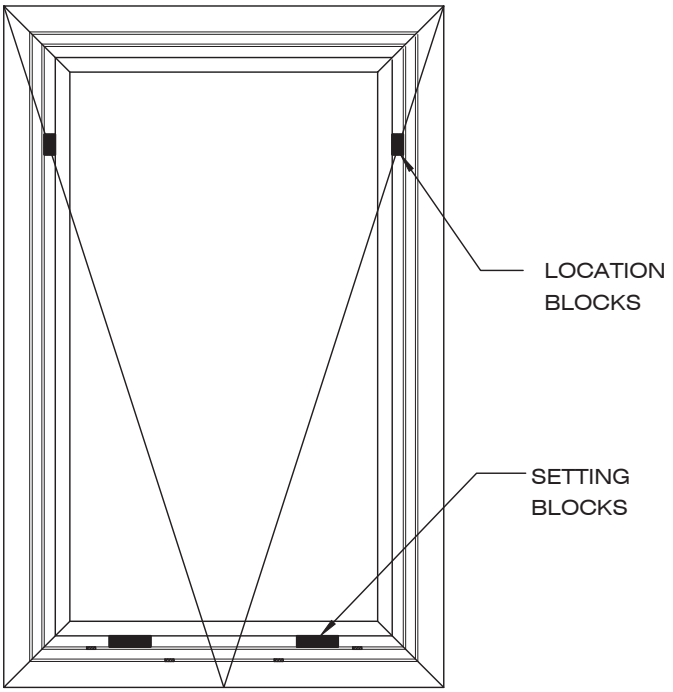


NOTE: REFER PAGE 12.6 FOR GLASS SETTING BLOCK LOCATIONS

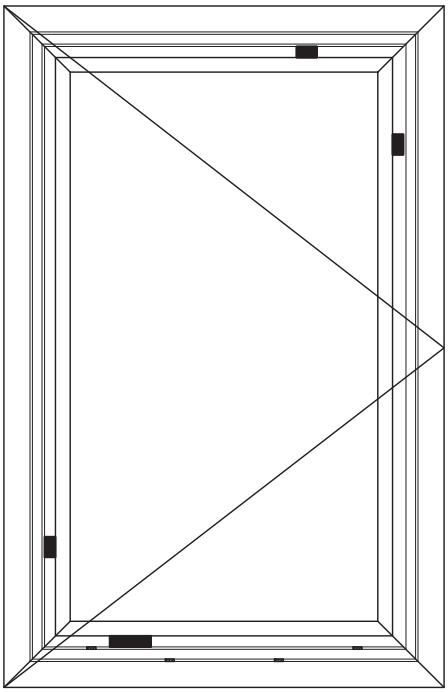
	'A' GLAZING TAPE		'B' GLAZING WEDGE	
GLASS THICKNESS	REF.	CODE	ID COLOUR	CODE
18mm	4.8 x 12mm	1385577	GR45 - BLUE	1313057
20mm	3.2 x 12mm	1385549	GR45 - BLUE	1313057
22mm	1.6 x 12mm	1385580	GR46 - YELLOW	1313058
24mm	1.6 x 12mm	1385580	GR44 - WHITE	1313056

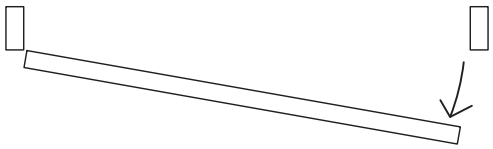
Setting and Location Block Location

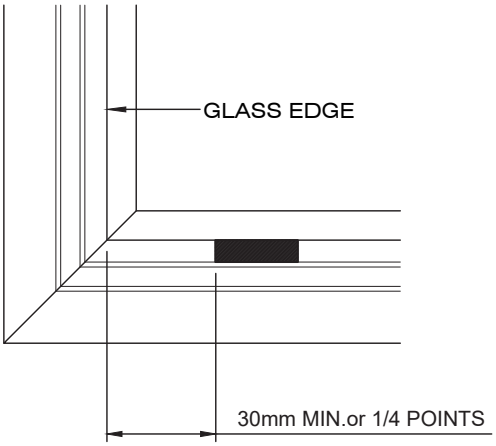
AWNING



CASEMENT







NOTE :

1. MINIMUM LENGTH OF SETTING BLOCKS SHALL BE 25mm IN LENGTH FOR EVERY SQUARE METRE OF GLASS AREA, WITH A MIN. LENGTH OF 50mm
2. MINIMUM LENGTH OF LOCATION BLOCKS SHALL BE 25mm

FRAMING

Your new **35mm Awning & Casement Windows** 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 **35mm Awning & Casement Windows** frame will retain it's good looks and resist the elements for years to come.

The **35mm Awning & Casement Windows** 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 **35mm Awning & Casement Windows** 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 **35mm Awning & Casement Windows** 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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