

SPW600e

SPW600e Overswing

Product Assembly  
Manual 2012  
Outward Opening  
Overswing

## Introduction

### The Company

*Senior Architectural Systems are a group of companies based in the United Kingdom who operate through a network of regional Service Centres.*

*Its' operations include the main business of stockholding in both systemized and standard aluminium extrusions. Mill finish, anodised (natural and bronze), and powder coated sections are all available, along with all of the necessary accessories for manufacture. The incorporation of new or modified sections, system compatible, is carried out when required.*

*The emphasis is on service to our clients, with response speed being very much of the essence. Deliveries are made on dedicated vehicles in our own livery, into all areas of the country on a regular basis - collections can be easily arranged for direct release (ex. works) to our clients' instructions. Short notice collections can also be arranged in the event of the occasional, and inevitable 'emergency'.*

### The Product Range

*Other product ranges available from Senior Architectural Systems include: -*

*Curtain Wall, Casement Windows, Mid-Rise Commercial Windows, Patent Glazing, Sub Frame, Standard Angles and Rectangular Tubes, Residential Windows, Residential Doors, Patio Doors and Secondary Glazing.*

*Also available from Senior Architectural Systems include: -*

*The HYBRID product range comprising: Casement, Tilt and Turn open in, Doors - Open in / Open out, 44mm Door Slab, and a Curtain Wall system.*

### Quality Assurance

*We are committed to the aims of ISO 9001 Quality Assurance.*

*In the event of questions or queries concerning the contents of this manual or any other product on offer from Senior Architectural Systems, please do not hesitate to contact your Regional Service Centre:*

**Senior Architectural Systems Denaby (Head Office)                      01709 772600**

**Senior Architectural Systems Scotland    01506 407640**

**Senior Architectural Systems South    01633 277880**

*Senior Architectural Systems Ltd operate a policy of continuing development and reserve the right to amend and improve their products without notification. Every effort will however be made to ensure that up-dates are circulated to our clients for information as deemed necessary.*

*All items contained in this manual are subject to our normal terms and conditions, a copy of which is available on request. Whilst we make every effort to ensure the accuracy of the drawings and measurements contained in this manual, we neither warrant nor guarantee the accuracy and you should undertake your own measurements and not place any reliance on or act in consequence of the contents herein.*

## Scope

*This specification covers the materials, sections and accessories generally available from stock through the Senior Architectural Systems group of companies. It illustrates typical recommendations for the fabrication of our SPW600e Overswing Window. The sections and fittings described in this manual are not definitive or exclusive in application but show typical assemblies using standard materials and accessories.*

*Identical main line extrusions are used for both single and dual colour finishes.*

*These details are suitable for installations in both new buildings and re-furbishments.*

## Construction

*SPW600e Overswing Windows are constructed using mitred and mechanically crimped corners, with support chevrons and cleats. Integral transoms and mullions are installed by scribing the ends and then either screw fixing or bracket fixing into the outer frames.*

*A proprietary sealant to protect against water entry should be used on all metal-to-metal joints and cleat insertion points at assembly.*

*Opening window frames are designed to be inserted directly into the outer frames using specialist stays.*

*Glazing is double glazing 28mm standard, although other options are available.*

*At all times good working practices should be employed.*

## Accessories

*All accessories shown in this manual are deemed to be both typical, and suitable for, the installations intended. They are generally standard items which carry with them the manufacturers guarantees and are components which are held in stock.*

## Testing

*The SPW600e Overswing windows are tested in accordance with BS6375 Part 1, 1989.*

*Equipment as required in BS5368 : Part 1 : 1976.*

*Test Results Available On Request.*

*Separate figures are available for Thermal U-values depending on type of frame and glazing material.*

## Materials

*Extruded aluminium is Aluminium Alloy 6063.T6 to BS EN 755 part 9: 2008.*

*Polyamide thermal barriers PA66 GF25.*

*Anodising: i) Natural (Silver) anodised to BS3987, 1991. and ii) Anolok Bronze Colour 547 anodised to BS3987, 1991. Anodising is to a minimum of 25 microns (AA25).*

*Powder Coating is to BS EN 12206-1:2004.*

*Gasketry is manufactured in accordance with BS3734.*

## Glazing

*Note: All Glazing should be carried out to the recommendations of BS6262.*

*Double glazing of 28mm may be installed into this window system. Other options available.*

*Each pane of glass is individually inserted into a fully rebated and prepared opening.*

*Glass is retained in position with beads which for outside glazing carry the captive gasket, wedge gaskets are to the inside of the glass to assist with security.*

## Site Installation

*Site fixing of finished frames should take into account all applicable standards with regard to both the method employed and safe working practices.*

*Frame fixings should be suitable for the purpose given site conditions and materials into which the installation is to be made. If in doubt, please check with your fixings supplier regarding type and method to be used.*

## Size Limitations

*Size limitations for each type of window varies. The following schedule is an indication of the SPW600 system capabilities.*

	W	x	H
Overswing Open Out	1500	x	1600

Weight Limitations	PN UNI = 60KGS
	Grorud = 80KGS

**Multi-lights:** *all mullions and transoms over 1200mm high or wide should be checked for lxx value stability to loadings provided by the specifier, or to BS6399 part 2:1997*

*The above schedule is based on nominal test results and assumes that adequate care regarding the location and exposure of the window is taken by the fabricator.*

*Due regard should be given to the maximum recommended sizes, as published by the hardware manufacturers.*

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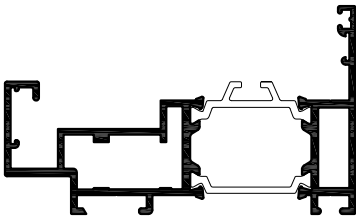
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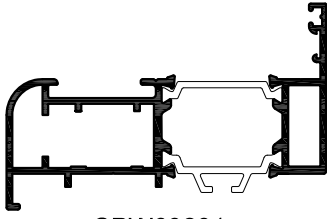
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# SPW600e Overswing

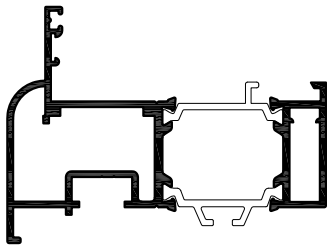
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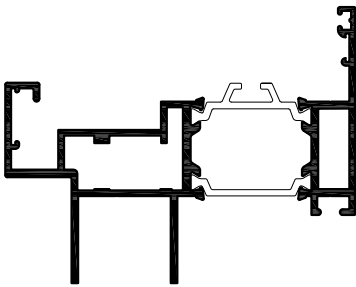
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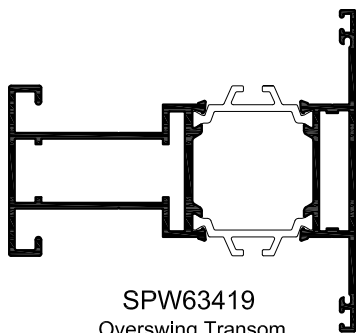
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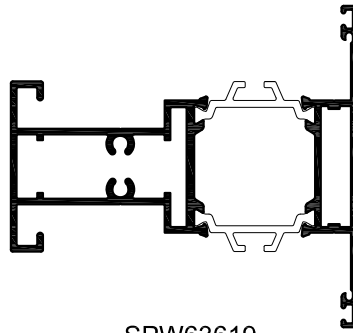
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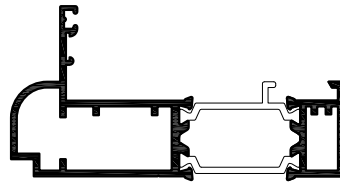
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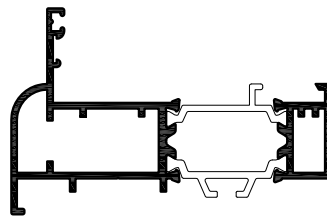
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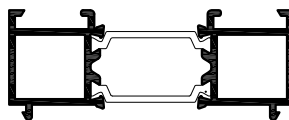
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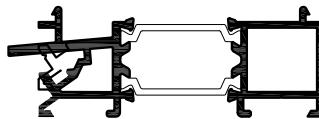
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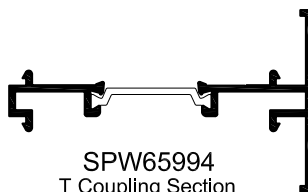
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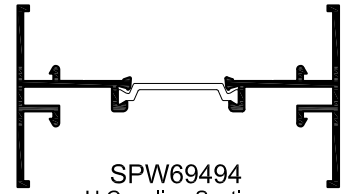
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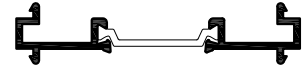
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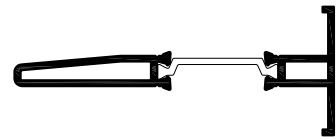
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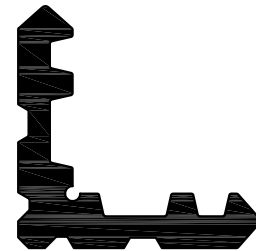
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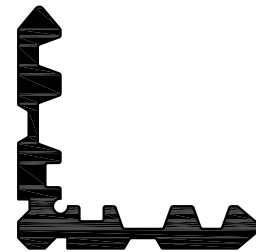
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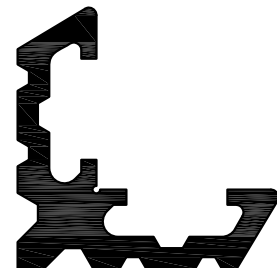
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SPW645  
Corner Cleat



SXTW281  
Corner Cleat



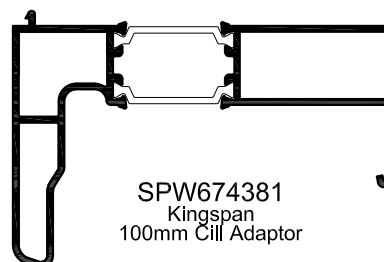
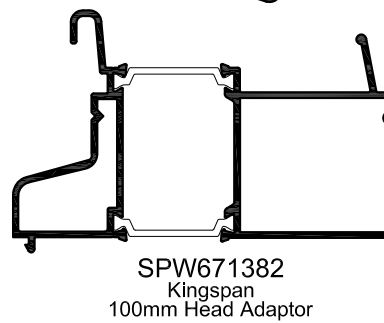
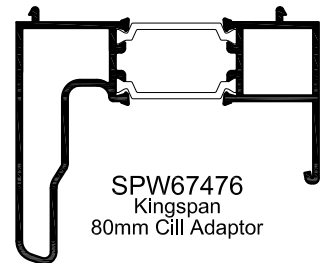
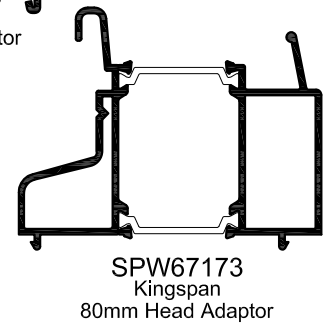
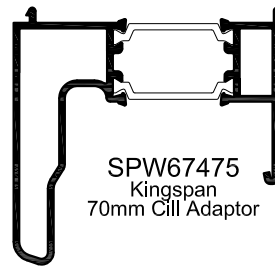
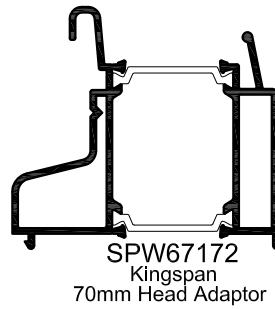
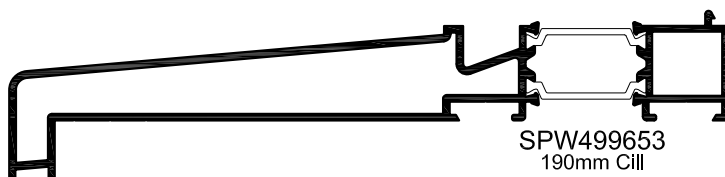
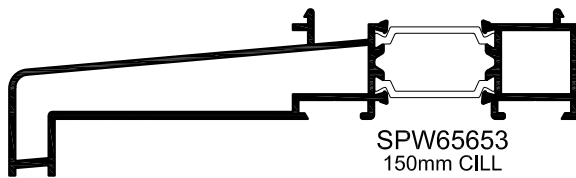
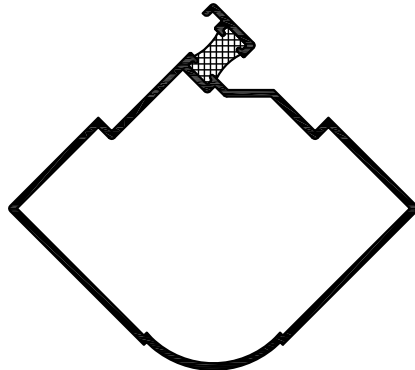
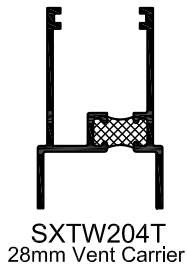
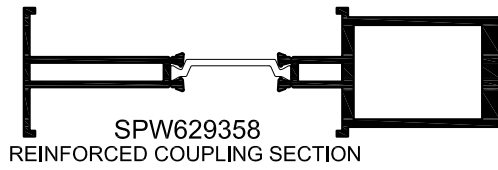
SW445  
Corner Cleat

# SPW600e Overswing

## Section Identification

SPW600e.3.ix

04.12





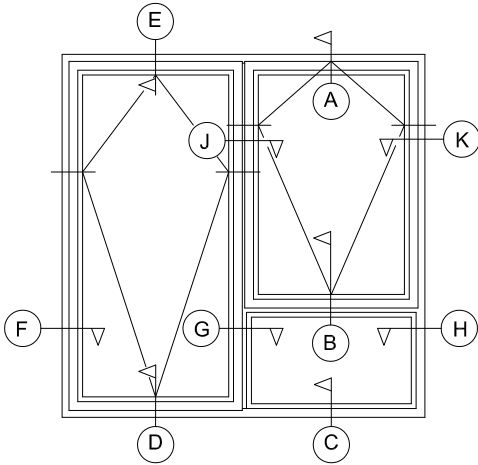
## Manual Update

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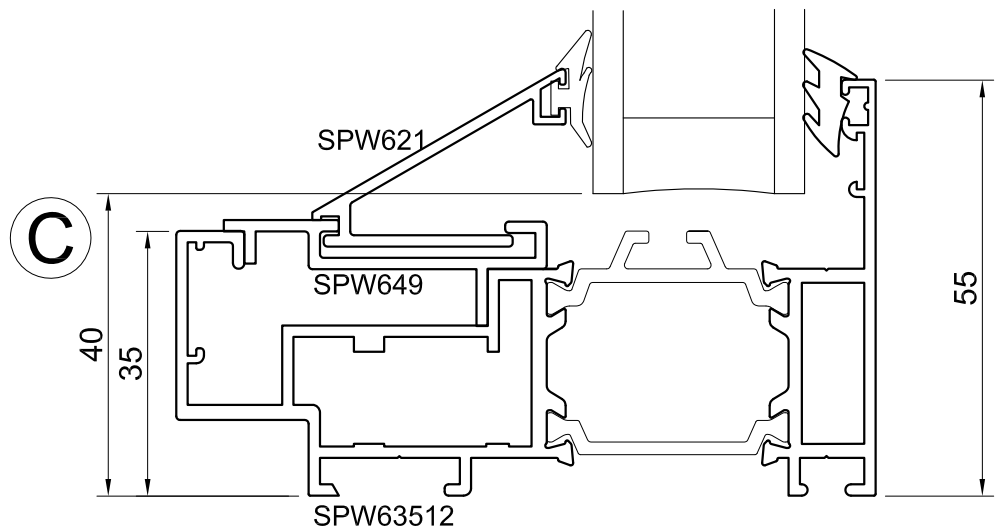
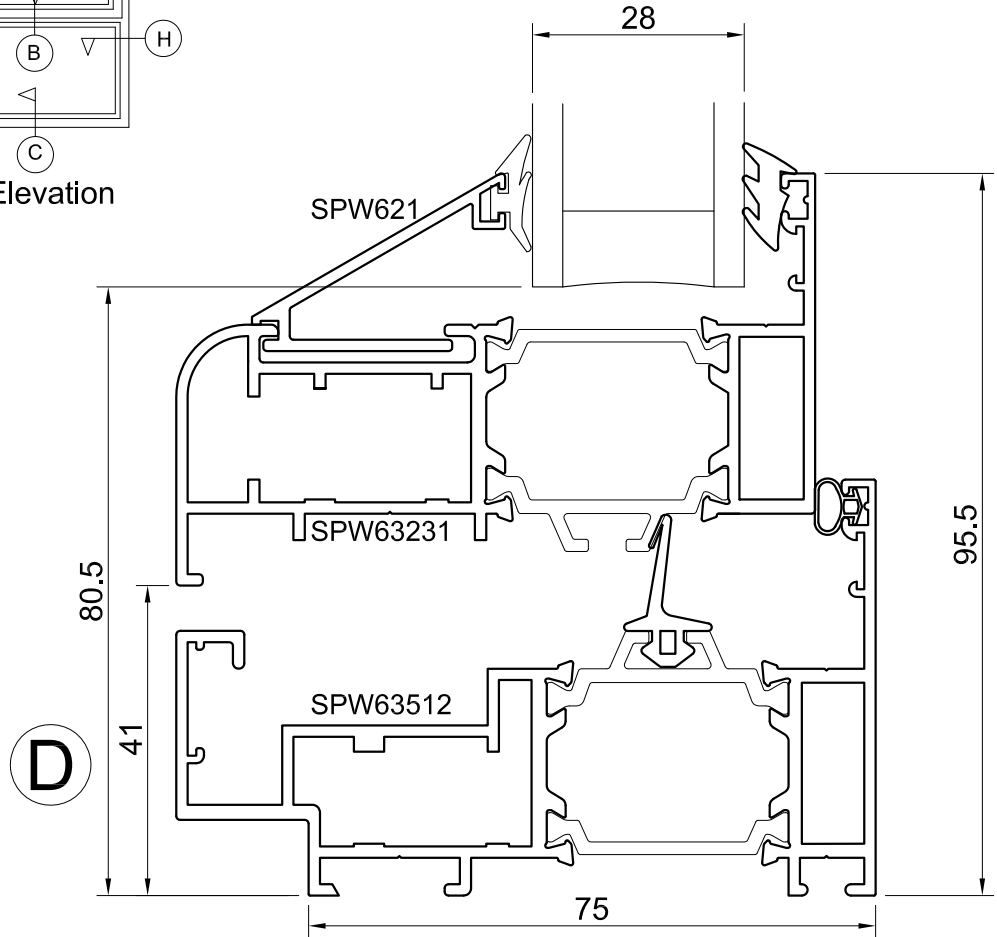
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04.12

# SPW600e Overswing Vertical Cross Section - External Glazed



Typical Outside Elevation

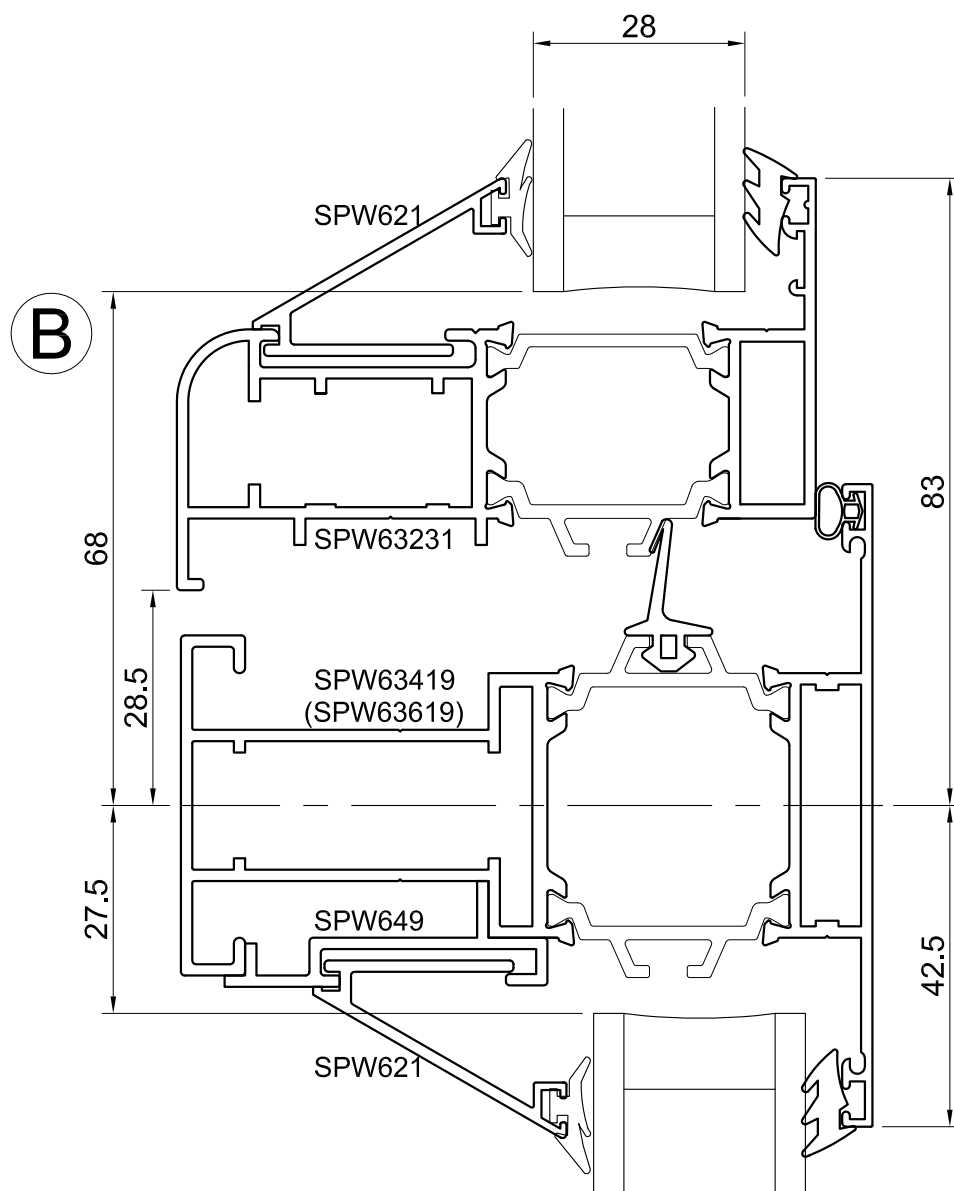


# SPW600e Overswing

Vertical Cross Section - External Glazed

SPW600e.A.302

04.12

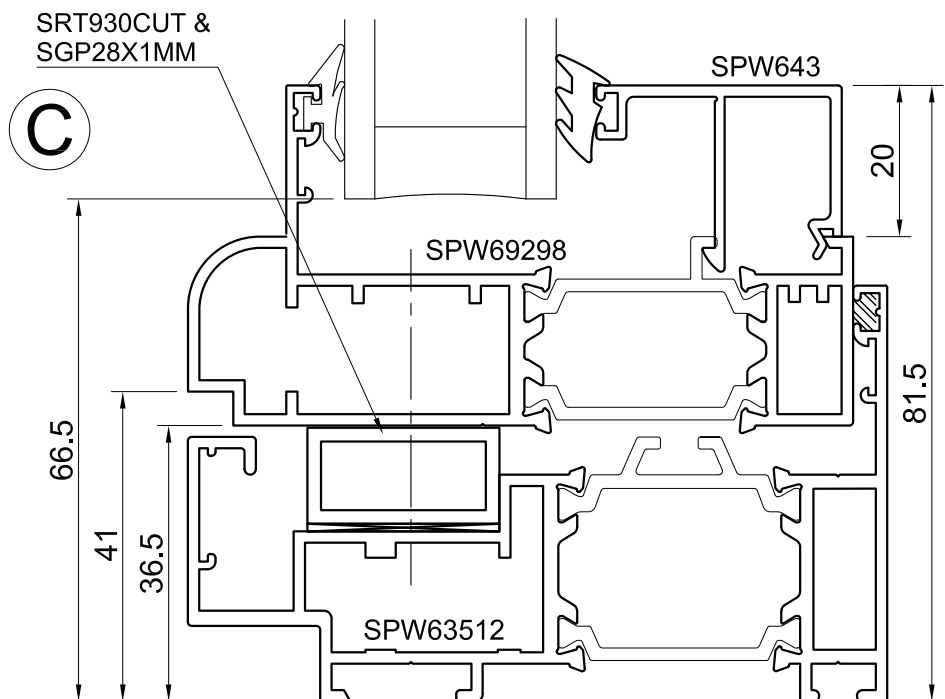
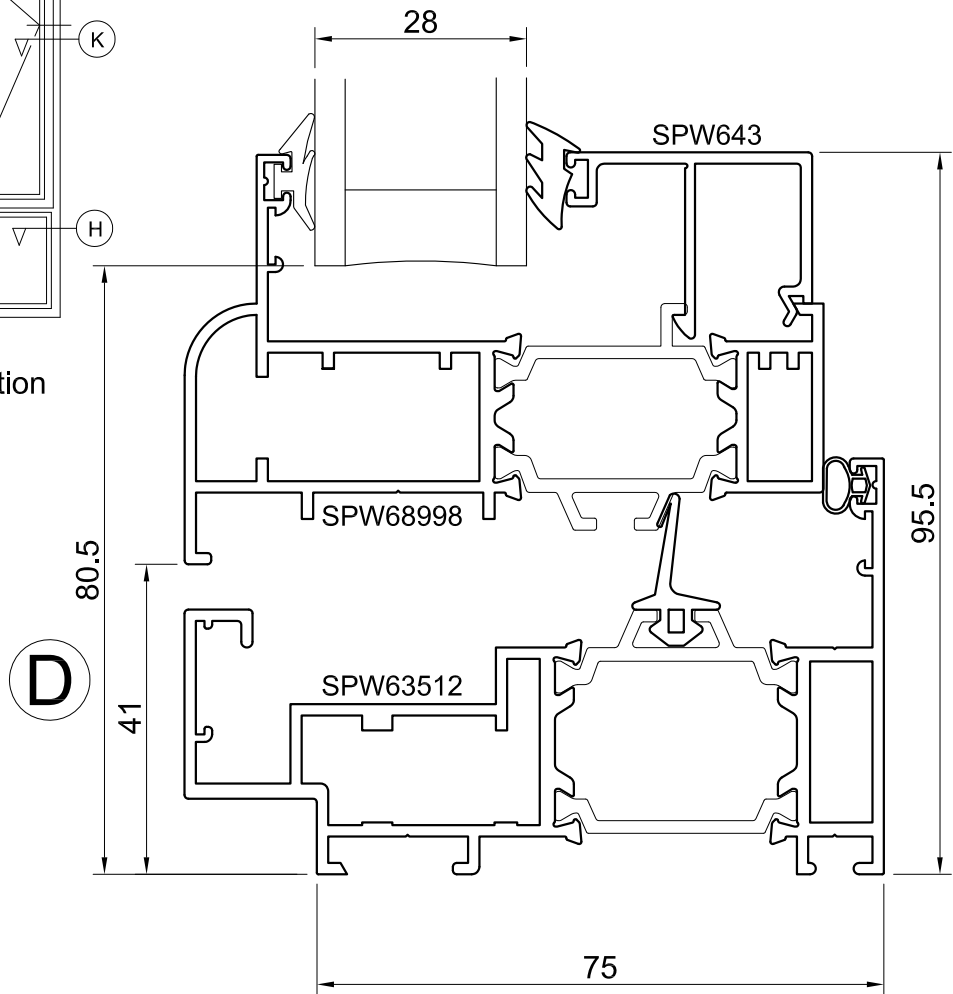
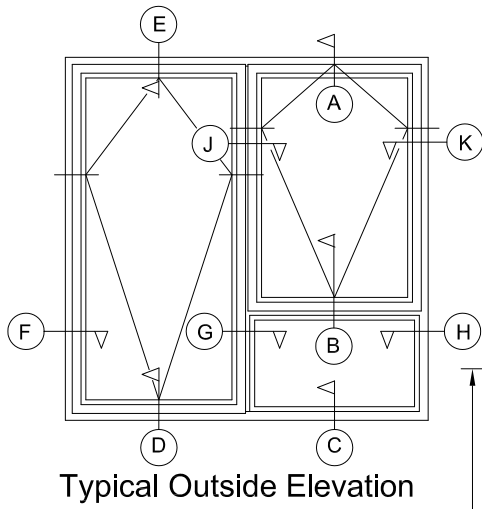


# SPW600e.A.303

04.12

# SPW600e Overswing

## Vertical Cross Section - Internal Glazed

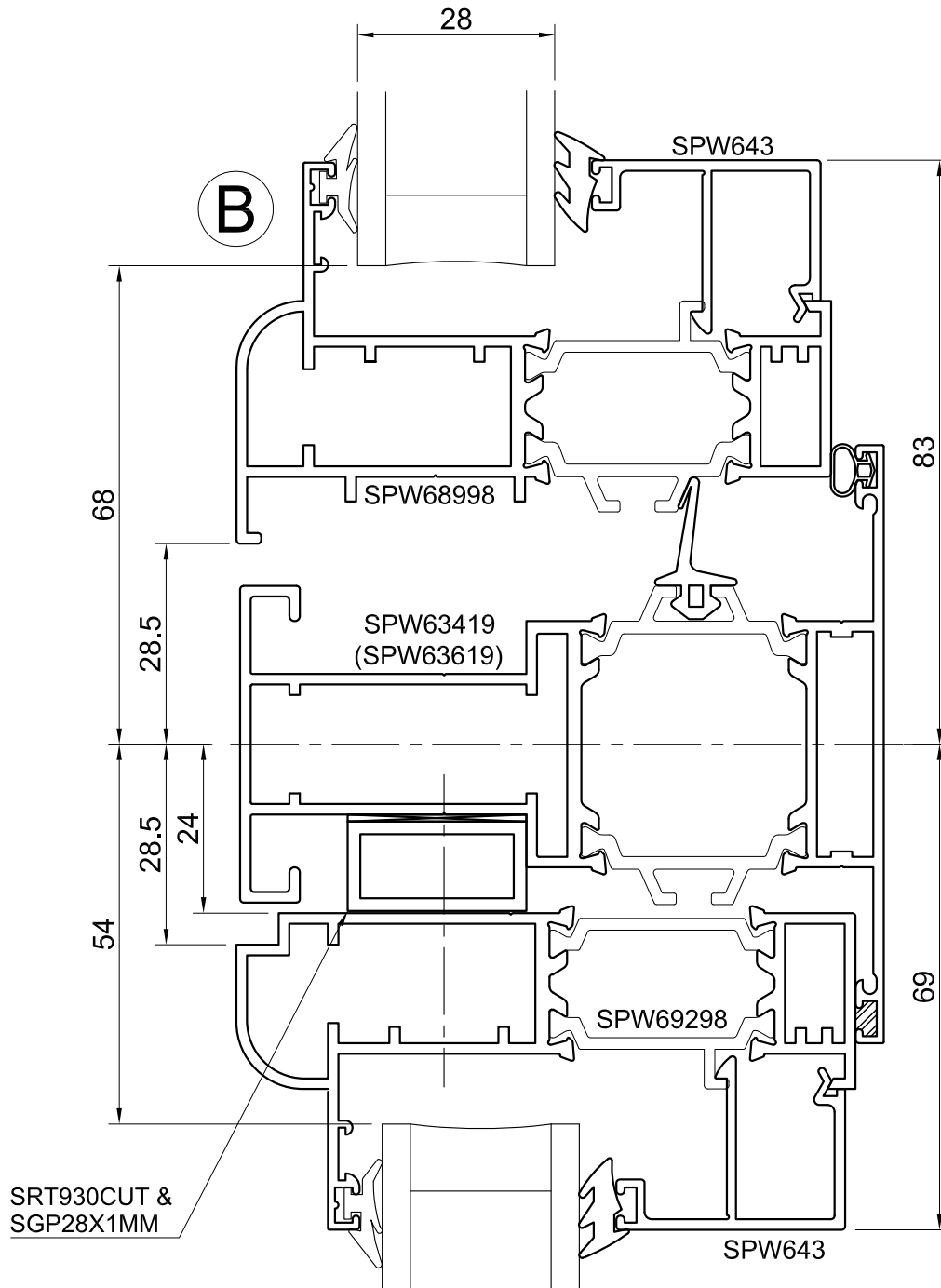


# SPW600e Overswing

Vertical Cross Section - Internal Glazed

SPW600e.A.304

04.12

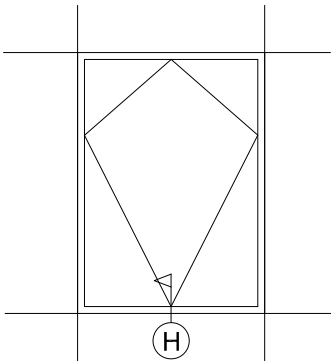


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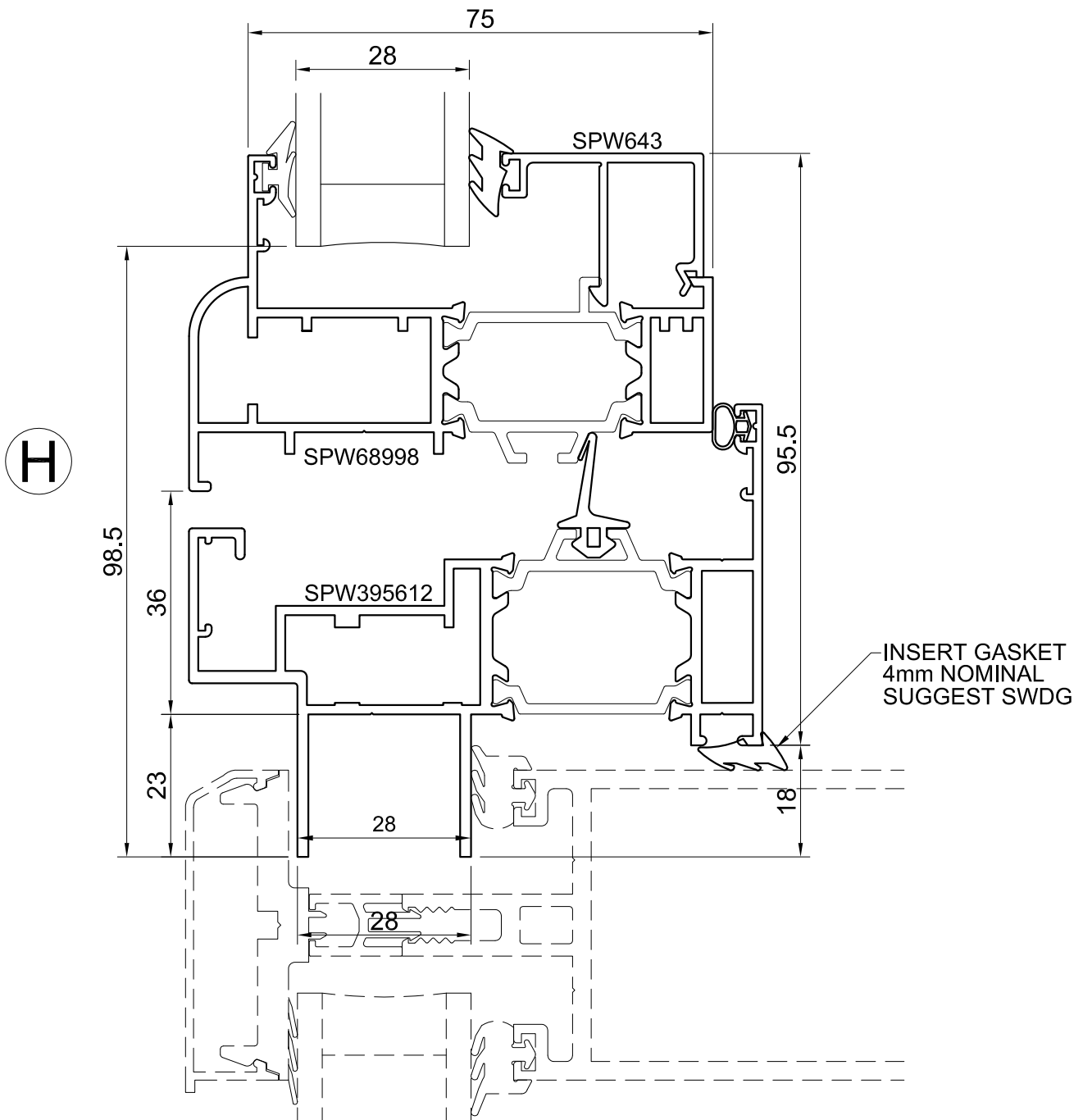
# SPW600e Overswing

04.12

## Vertical Cross Section - Internal Glaze Into Curtain Wall



Typical Outside Elevation

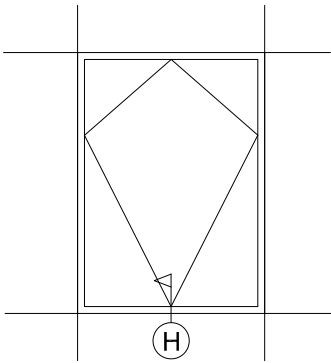


# SPW600e Overswing

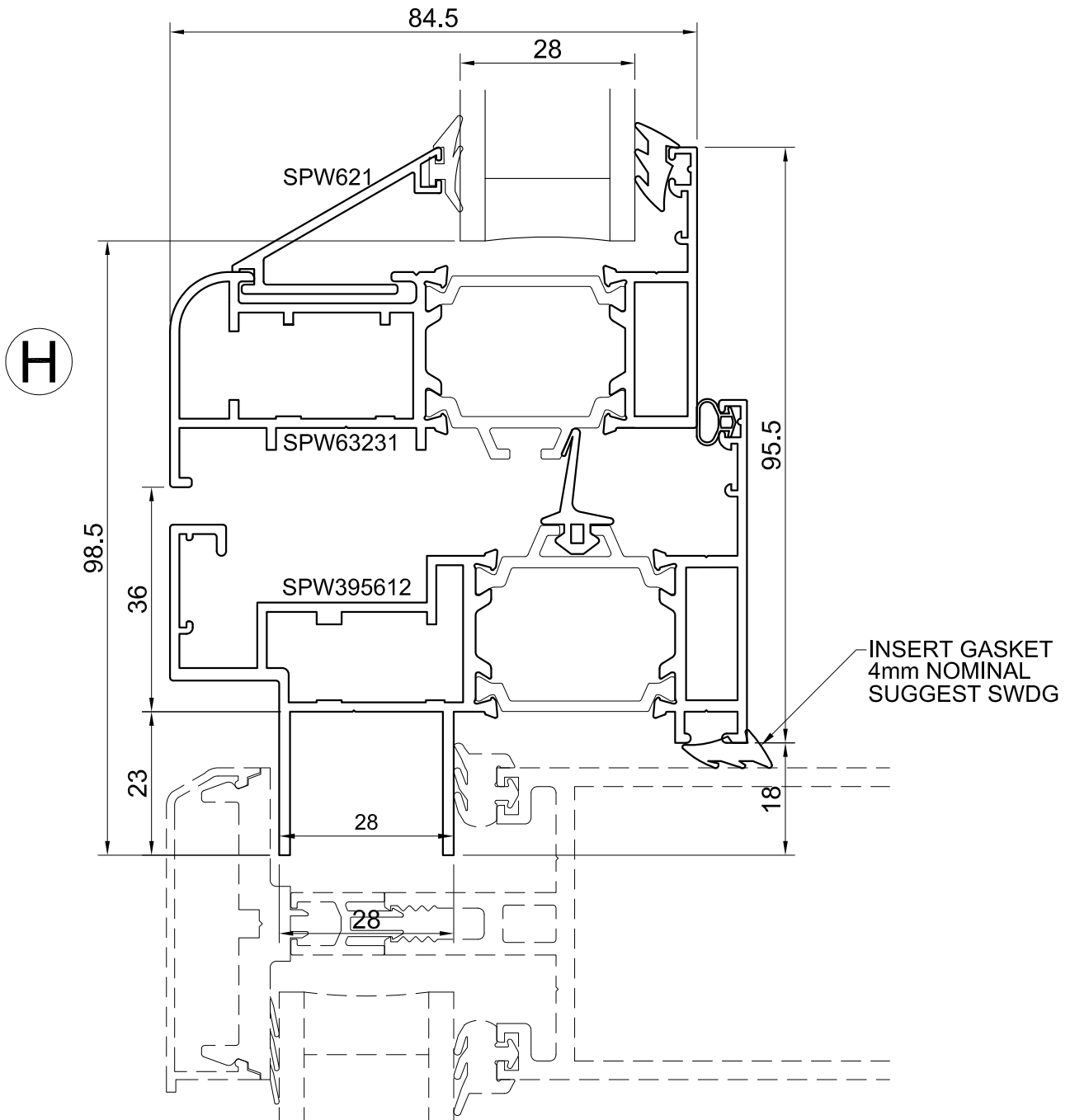
SPW600e.A.306

Vertical Cross Section - External Glaze Into Curtain Walling

04.12



Typical Outside Elevation

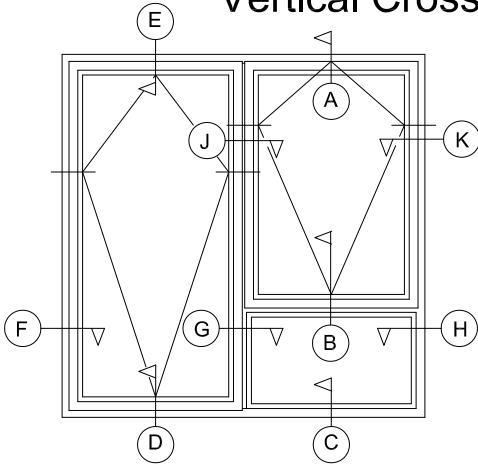


SPW600e.A.307

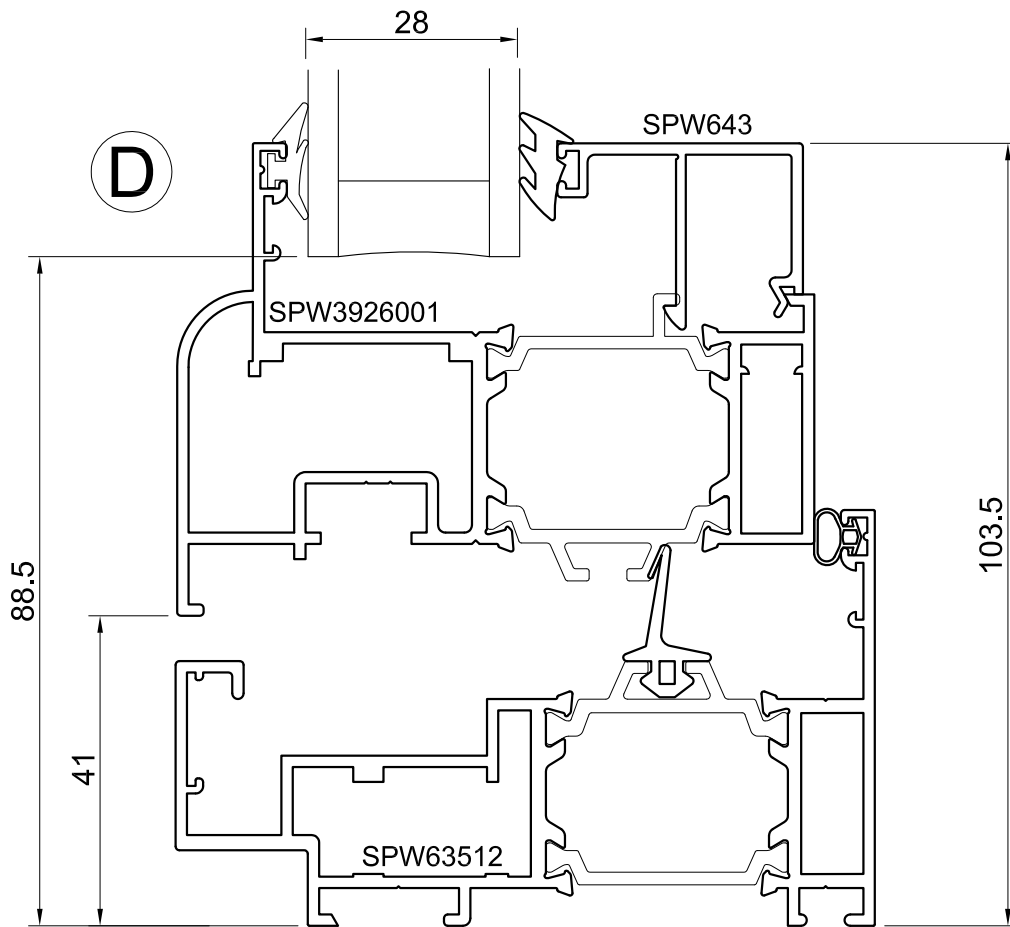
# SPW600e Overswing

04.12

## Vertical Cross Section - Espagnolette Sash Internal Glazed



Typical Outside Elevation

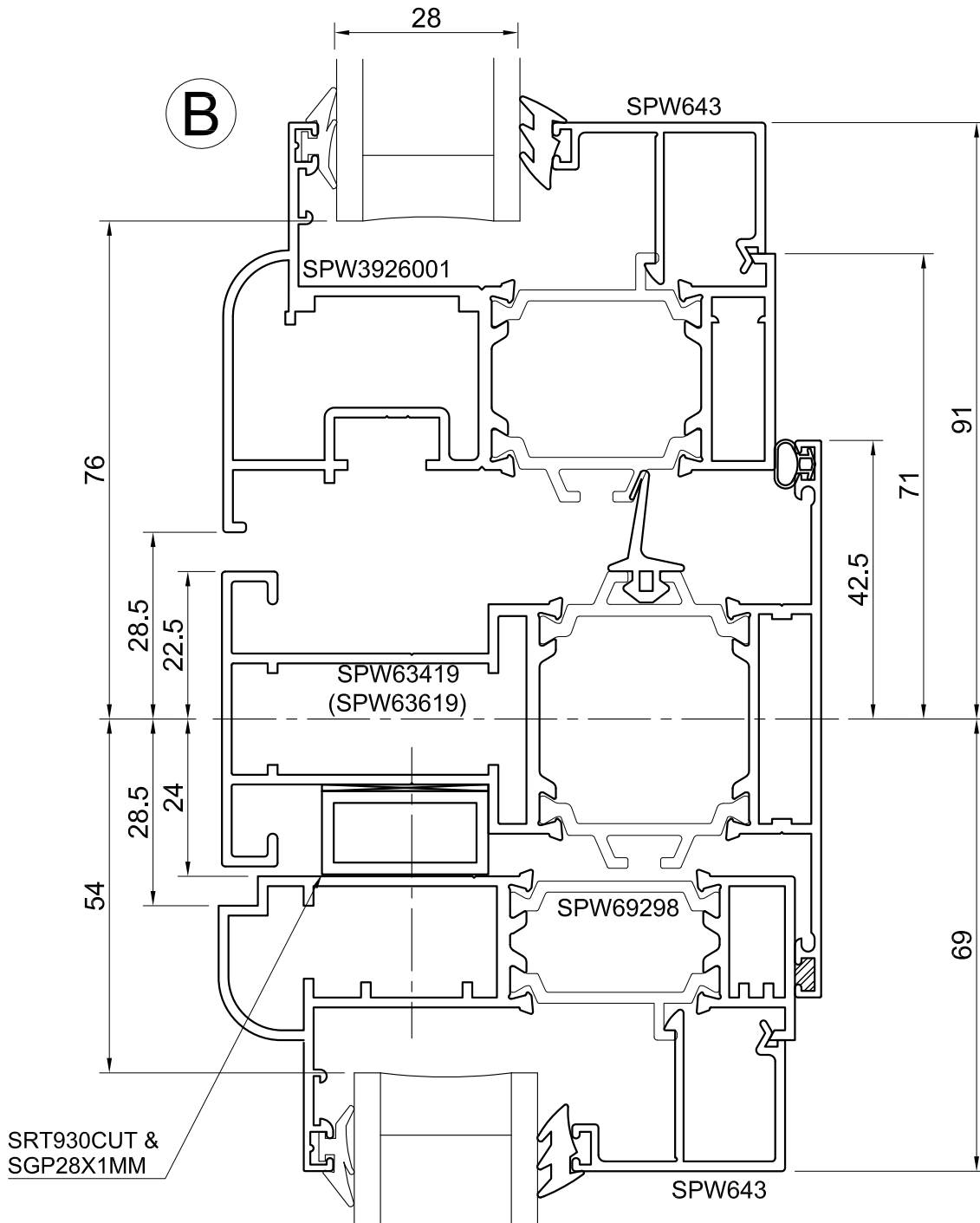


# SPW600e Overswing

SPW600e.A.308

Vertical Cross Section - Espag Sash Transom/Mullion Int. Glazed

04.12

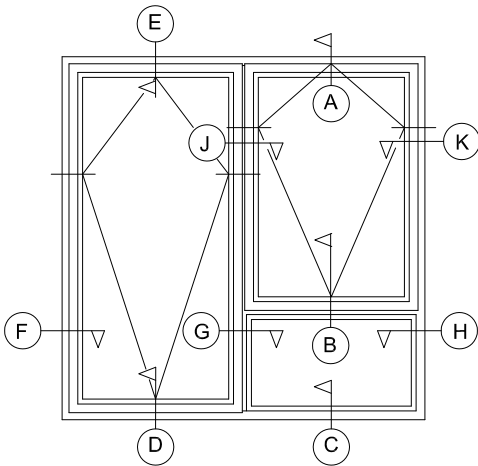


# SPW600e.A.309

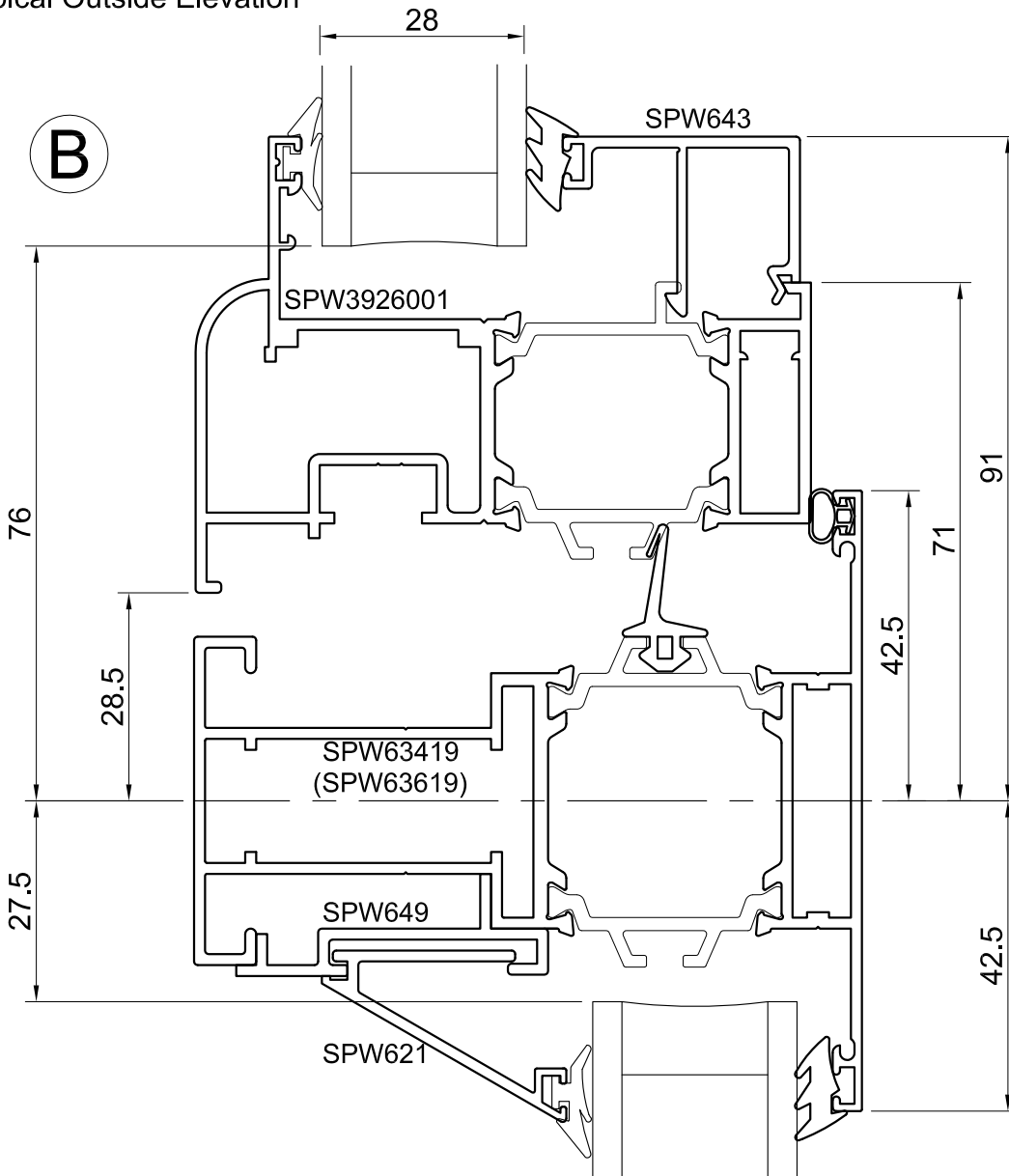
04.12

# SPW600e Overswing

## Vertical Cross Section - Espag Sash Transom/Mullion



Typical Outside Elevation

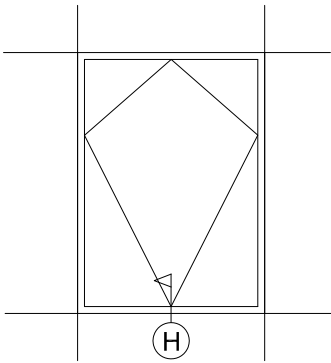


# SPW600e Overswing

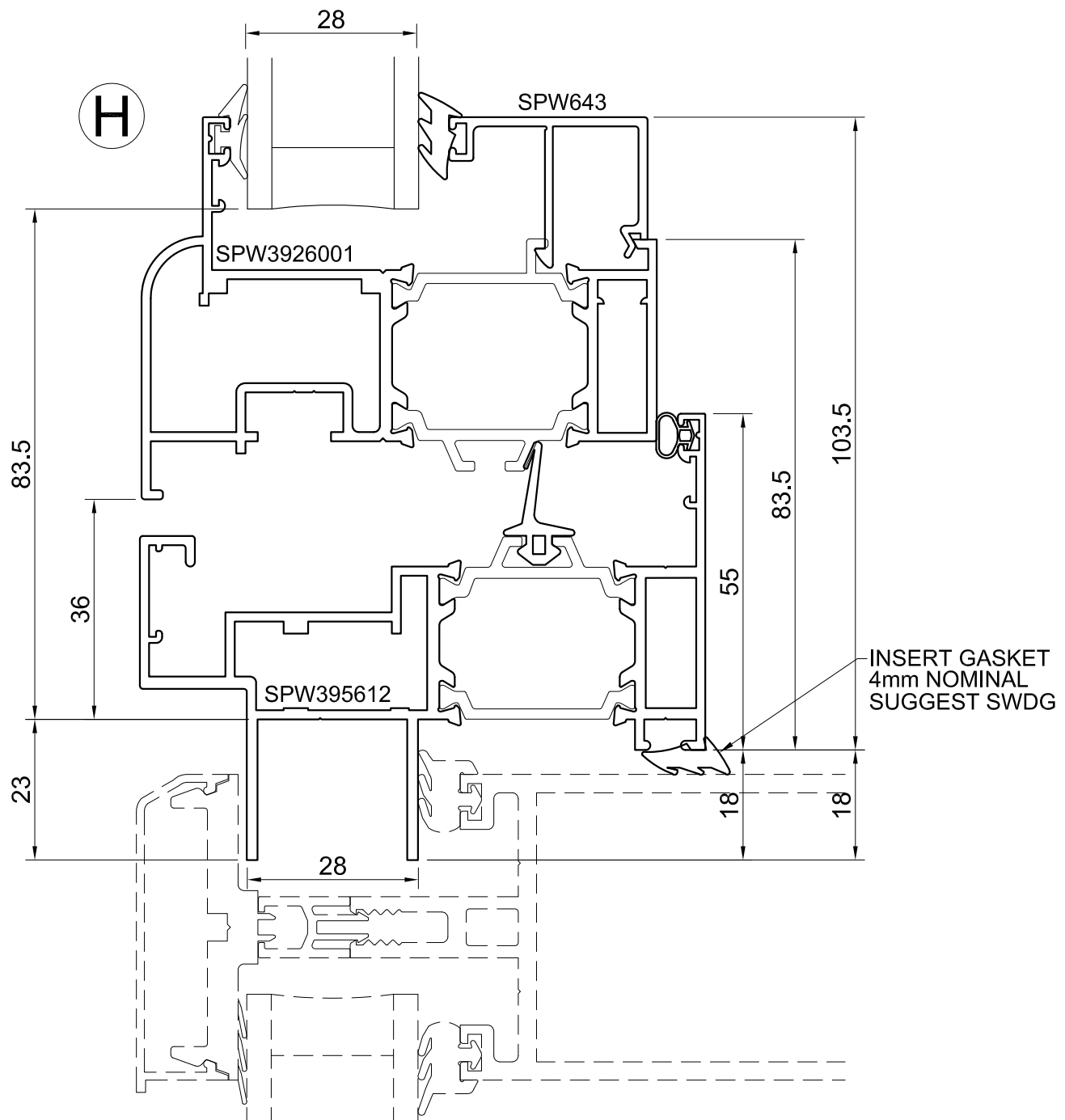
SPW600e.A.310

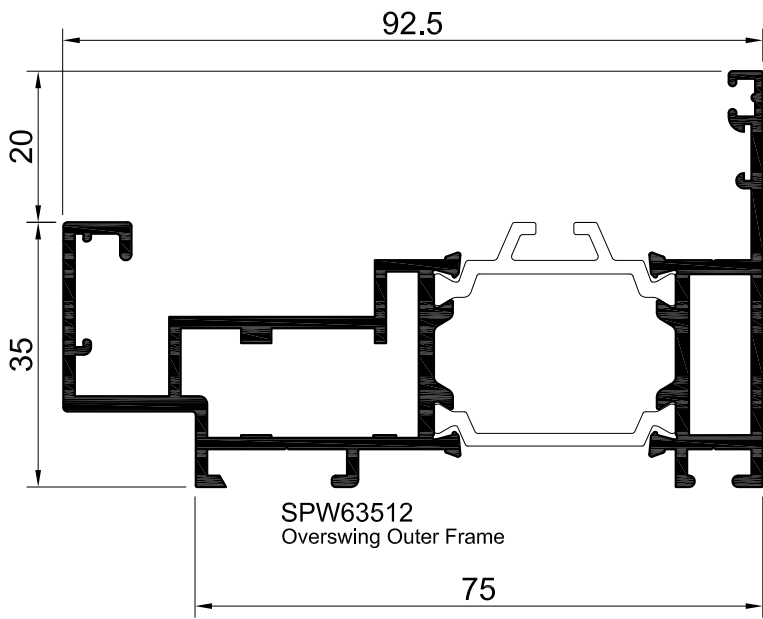
Vertical Cross Section - Espag Sash Into Curtain Wall

04.12



Typical Outside Elevation



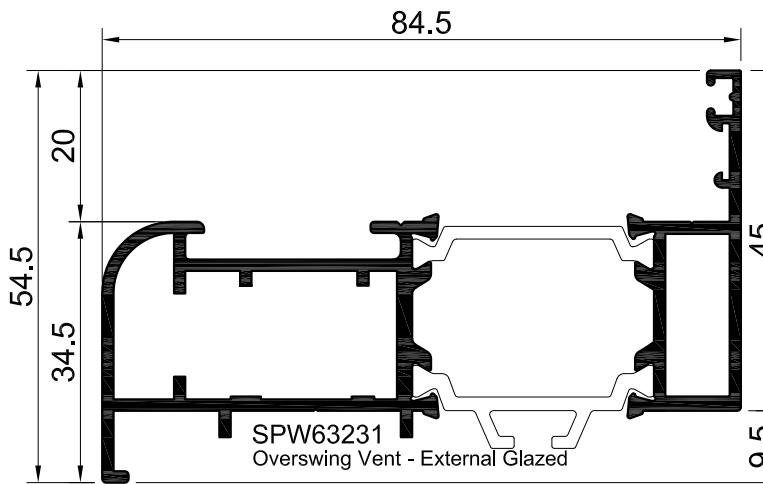


### Overswing Outer Frame

ALUMINIUM INNER	SPW612
ALUMINIUM OUTER	SPW635
EXTERNAL PERIMETER INNER	200mm
INTERNAL PERIMETER INNER	59mm
EXTERNAL PERIMETER OUTER	248mm
INTERNAL PERIMETER OUTER	144mm
OVERALL EXTERNAL PERIMETER	466mm
POLYAMIDE UPPER	PAW289100
POLYAMIDE LOWER	PAW939700
	PV06
	PH09
	SW4CH7orCHEVP7
	SW4CH15orCHEVP15
	SXTW281CT28
	SW445CT8
$I_{xx}$	$55.8548\text{cm}^4$
$I_{yy}$	$7.7350\text{cm}^4$

### EPS Insert

EPS Into Section	EPS003
------------------	--------

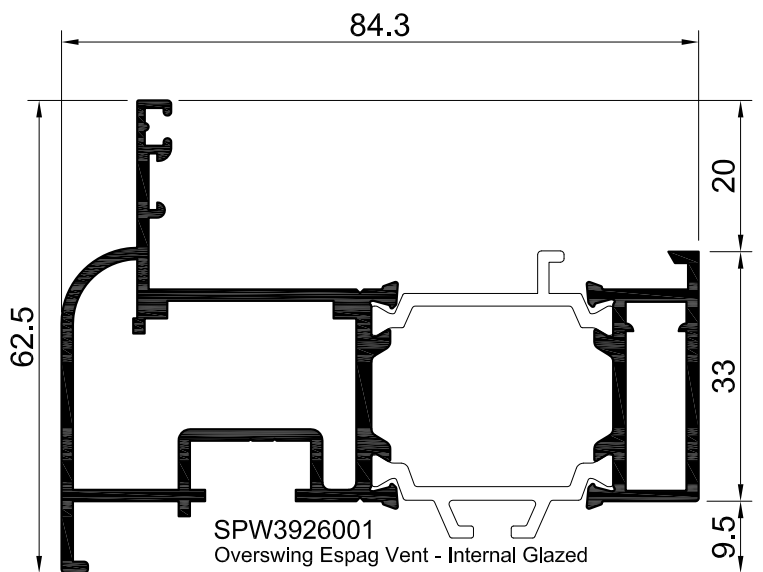


### Overswing Vent - External Glazed

ALUMINIUM INNER	SPW631
ALUMINIUM OUTER	SPW632
EXTERNAL PERIMETER INNER	166mm
INTERNAL PERIMETER INNER	60mm
EXTERNAL PERIMETER OUTER	214mm
INTERNAL PERIMETER OUTER	140mm
OVERALL EXTERNAL PERIMETER	369mm
POLYAMIDE UPPER	PAW939700
POLYAMIDE LOWER	PAW289100
	PV05
	PH08
	SW4CH7orCHEVP7
	SPW645CT28
	SW445CT8
$I_{xx}$	$41.1917\text{cm}^4$
$I_{yy}$	$6.0935\text{cm}^4$

### EPS Insert

EPS Into Section	EPS003
------------------	--------



### Overswing Espag Vent - Internal Glazed

ALUMINIUM INNER	SPW6001
ALUMINIUM OUTER	SPW392
EXTERNAL PERIMETER INNER	121mm
INTERNAL PERIMETER INNER	69mm
EXTERNAL PERIMETER OUTER	286mm
INTERNAL PERIMETER OUTER	156mm
OVERALL EXTERNAL PERIMETER	404mm
POLYAMIDE UPPER	PAW2161HKN
POLYAMIDE LOWER	PAW289100
	PH23
	PV34
	SW4CH7orCHEVP7
	SW445CT8
	SPW645CT28
$I_{xx}$	$42.9042\text{cm}^4$
$I_{yy}$	$9.1605\text{cm}^4$

### EPS Insert

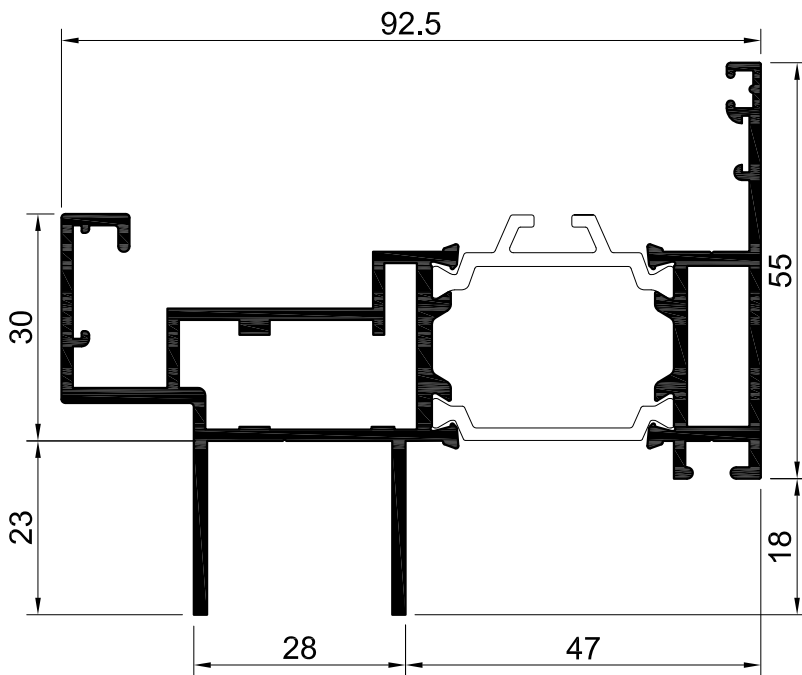
EPS Into Section	EPS008
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# SPW600e Overswing

# SPW600e.B.302





## Section Identification

04.12



SPW395612  
Overswing Outer Frame -  
28mm Curtain Wall

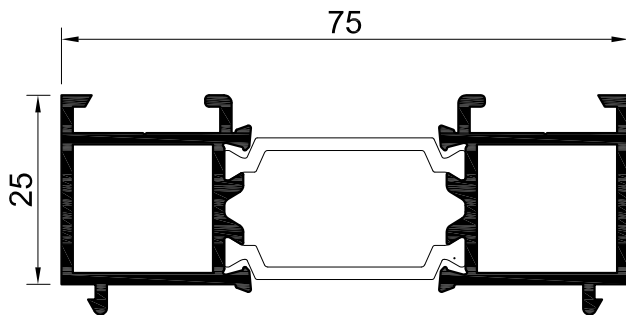
### Overswing Outer Frame - 28mm Curtain Wall

ALUMINIUM INNER	SPW612
ALUMINIUM OUTER	SPW395
EXTERNAL PERIMETER INNER	200mm
INTERNAL PERIMETER INNER	59mm
EXTERNAL PERIMETER OUTER	341mm
INTERNAL PERIMETER OUTER	115mm
OVERALL EXTERNAL PERIMETER	528mm
POLYAMIDE UPPER	PAW289100
POLYAMIDE LOWER	PAW938700
	PV06
	PH09
	SW4CH15or or CHEV15P
	SXTW281CT28

$I_{xx}$ ←	57.7209cm <sup>4</sup>
$I_{yy}$ ↑	12.1048cm <sup>4</sup>

### EPS Insert EPS Into Section

EPS008

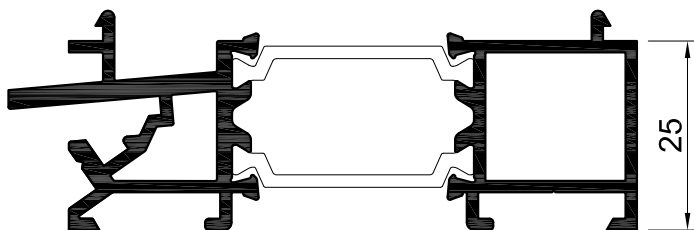


SPW65353  
25mm Add-On

### 25mm Add-On

ALUMINIUM INNER	SPW653
ALUMINIUM OUTER	SPW653
EXTERNAL PERIMETER INNER	147mm
INTERNAL PERIMETER INNER	71mm
EXTERNAL PERIMETER OUTER	147mm
INTERNAL PERIMETER OUTER	71mm
OVERALL EXTERNAL PERIMETER	265mm
POLYAMIDE UPPER	PAW938700
POLYAMIDE LOWER	PAW938700

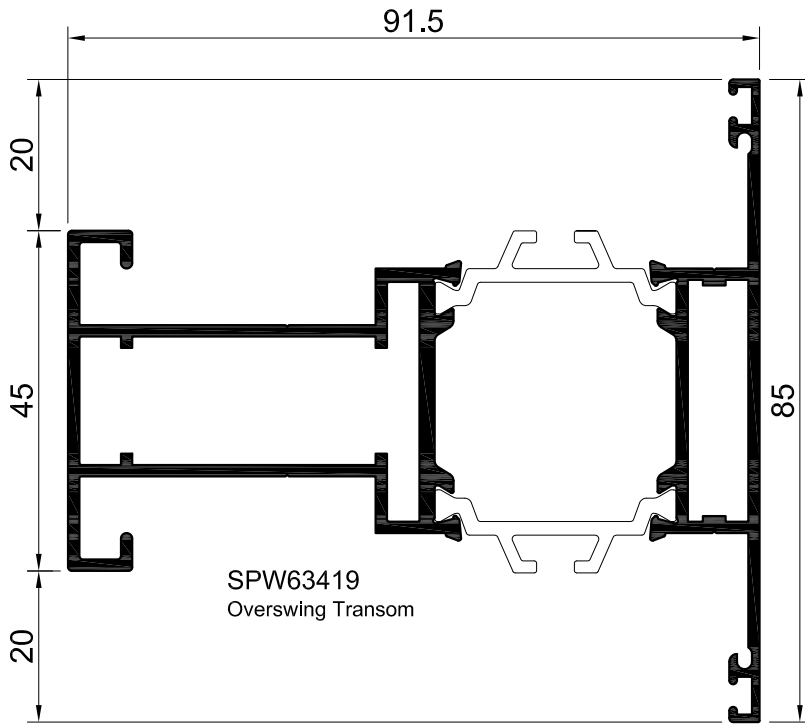
$I_{xx}$ ←	24.4084cm <sup>4</sup>
$I_{yy}$ ↑	2.5396cm <sup>4</sup>





SPW68553  
Drainage Cill

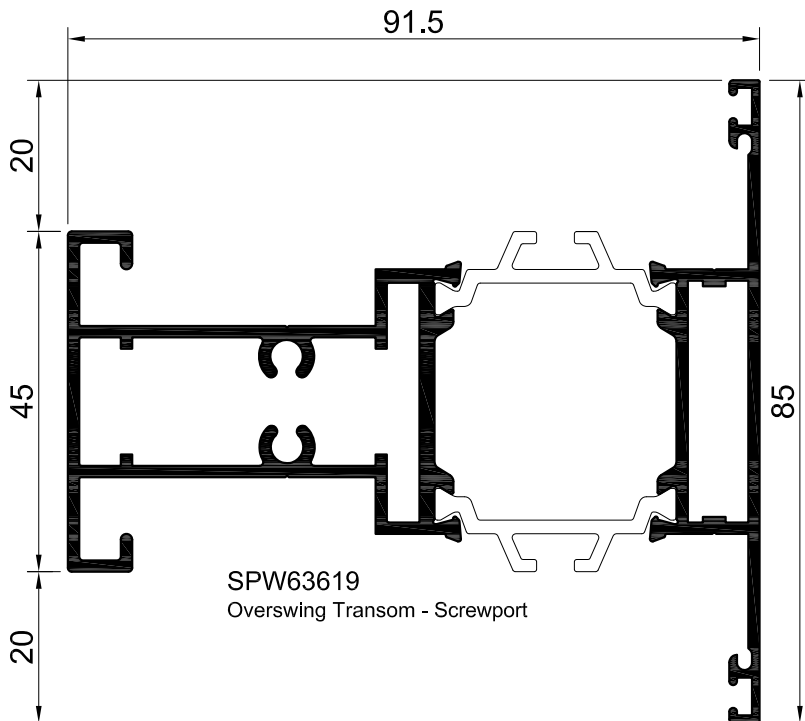
### Drainage Cill

ALUMINIUM INNER	SPW653
ALUMINIUM OUTER	SPW685
EXTERNAL PERIMETER INNER	147mm
INTERNAL PERIMETER INNER	71mm
EXTERNAL PERIMETER OUTER	165mm
INTERNAL PERIMETER OUTER	48mm
OVERALL EXTERNAL PERIMETER	283mm
POLYAMIDE UPPER	PAW938700
POLYAMIDE LOWER	PAW938700





### Overswing Transom

ALUMINIUM INNER	SPW619
ALUMINIUM OUTER	SPW634
EXTERNAL PERIMETER INNER	255mm
INTERNAL PERIMETER INNER	83mm
EXTERNAL PERIMETER OUTER	284mm
INTERNAL PERIMETER OUTER	165mm
OVERALL EXTERNAL PERIMETER	536mm
POLYAMIDE UPPER	PAW216100
POLYAMIDE LOWER	PAW216100
	SPW650CT30
	SPW658CT8
Ixx ←	68.3905cm <sup>4</sup>
Iyy ↑	16.6952cm <sup>4</sup>
<b>EPS Insert</b>	
EPS Into Section	EPS001



### Overswing Transom - Screwport

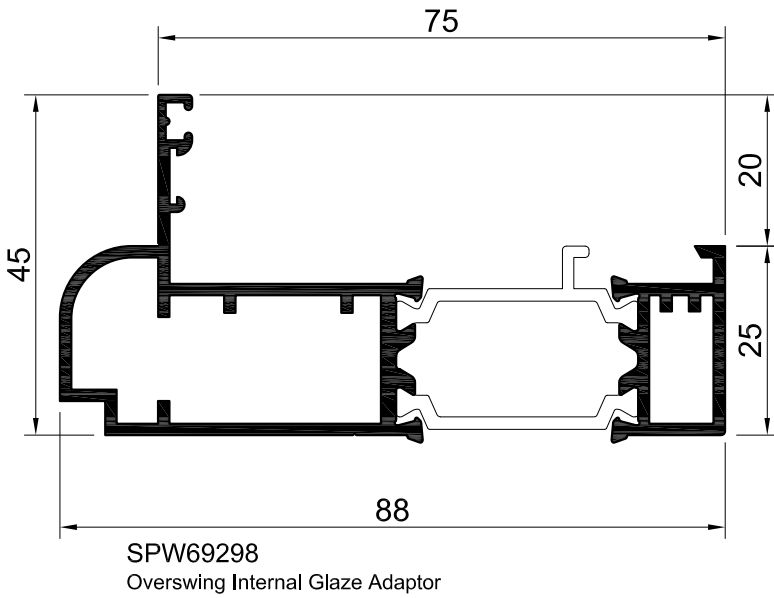
ALUMINIUM INNER	SPW619
ALUMINIUM OUTER	SPW636
EXTERNAL PERIMETER INNER	255mm
INTERNAL PERIMETER INNER	83mm
EXTERNAL PERIMETER OUTER	284mm
INTERNAL PERIMETER OUTER	203mm
OVERALL EXTERNAL PERIMETER	536mm
POLYAMIDE UPPER	PAW216100
POLYAMIDE LOWER	PAW216100
	SPW650CT30
	SPW677CT35
Ixx ←	70.0603cm <sup>4</sup>
Iyy ↑	16.8843cm <sup>4</sup>
<b>EPS Insert</b>	
EPS Into Section	EPS001

# SPW600e Overswing





## Section Identification

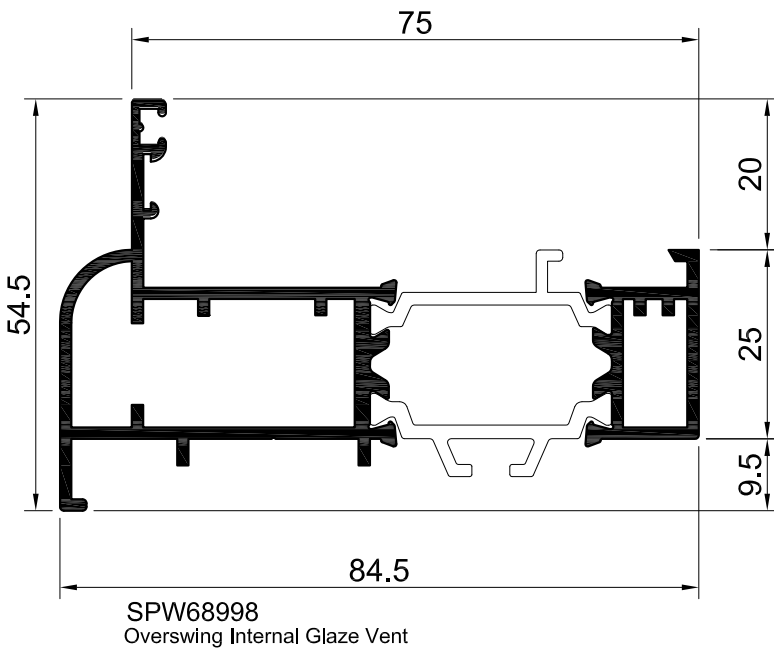
SPW600e.B.304

04.12







### Overswing Internal Glaze Adaptor

ALUMINIUM INNER	SPW698
ALUMINIUM OUTER	SPW692
EXTERNAL PERIMETER INNER	115mm
INTERNAL PERIMETER INNER	56mm
EXTERNAL PERIMETER OUTER	226mm
INTERNAL PERIMETER OUTER	144mm
OVERALL EXTERNAL PERIMETER	325mm
POLYAMIDE UPPER	PAW2161HKN
POLYAMIDE LOWER	PAW939700
	PV02A+CRIMPS7.6
	PH07
CHEVRON	SW4CH7orCHEV7P
	SPW645CT8
	SPW645CT8
$I_{xx}$ ←	38.9688cm <sup>4</sup>
$I_{yy}$ ↑	4.7767cm <sup>4</sup>
EPS Insert	
EPS Into Section	EPS004



### Overswing Internal Glaze Vent

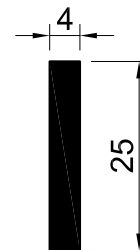
ALUMINIUM INNER	SPW698
ALUMINIUM OUTER	SPW689
EXTERNAL PERIMETER INNER	115mm
INTERNAL PERIMETER INNER	56mm
EXTERNAL PERIMETER OUTER	254mm
INTERNAL PERIMETER OUTER	140mm
OVERALL EXTERNAL PERIMETER	382mm
POLYAMIDE UPPER	PAW2161HKN
POLYAMIDE LOWER	PAW216100
	PV02A+CRIMPS7.6
	PH07
CHEVRON	SW4CH7orCHEV7P
	SPW645CT8
	SPW645CT8
$I_{xx}$ ←	39.0369cm <sup>4</sup>
$I_{yy}$ ↑	5.7066cm <sup>4</sup>
EPS Insert	
EPS Into Section	EPS004



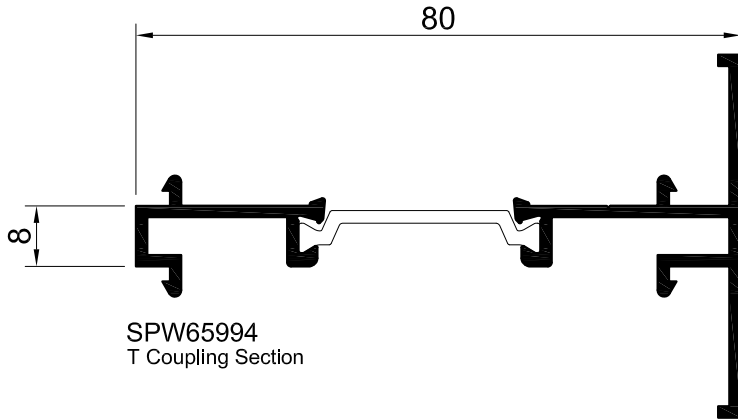
SPW660  
Overswing Weather Bar  
EXTERNAL PERIMETER 101mm



SPW649  
Overswing Fixed Light Adapter  
EXTERNAL PERIMETER 141mm

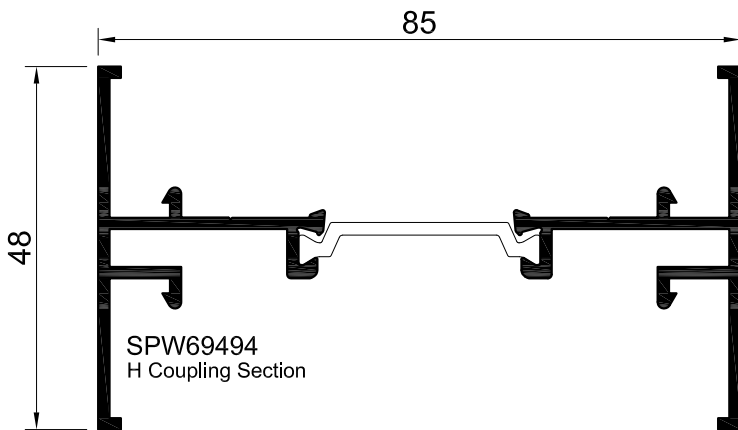


SAE25X4  
Georgian Bar  
EXTERNAL PERIMETER 58mm



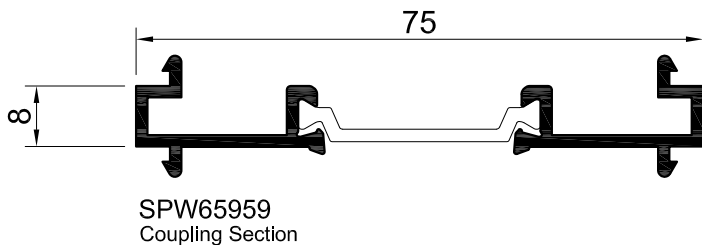
### T Coupling Section

ALUMINIUM INNER	SPW694
ALUMINIUM OUTER	SPW659
EXTERNAL PERIMETER INNER	130mm
EXTERNAL PERIMETER OUTER	225mm
OVERALL EXTERNAL PERIMETER	382mm
POLYAMIDE LOWER	PAW939700
Ixx ←	22.2960cm <sup>4</sup>
Iyy ↑	1.8482cm <sup>4</sup>



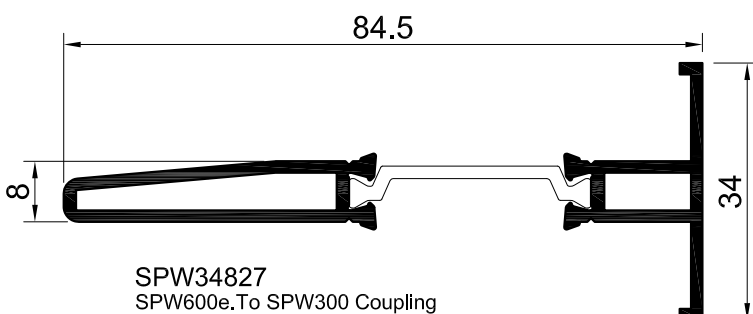
### H Coupling Section

ALUMINIUM INNER	SPW694
ALUMINIUM OUTER	SPW694
EXTERNAL PERIMETER INNER	130mm
EXTERNAL PERIMETER OUTER	130mm
OVERALL EXTERNAL PERIMETER	471mm
POLYAMIDE LOWER	PAW939700
Ixx ←	40.6309cm <sup>4</sup>
Iyy ↑	3.4880cm <sup>4</sup>



### Coupling Section

ALUMINIUM INNER	SPW659
ALUMINIUM OUTER	SPW659
EXTERNAL PERIMETER INNER	130mm
EXTERNAL PERIMETER OUTER	130mm
OVERALL EXTERNAL PERIMETER	270mm
POLYAMIDE LOWER	PAW939700



### SPW600e.To SPW300 Coupling

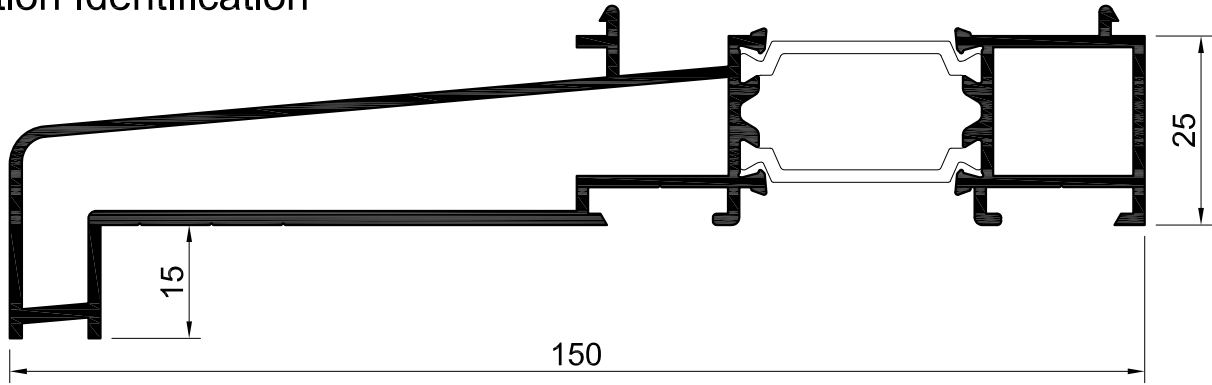
ALUMINIUM INNER	SPW327
ALUMINIUM OUTER	SPW348
EXTERNAL PERIMETER INNER	123mm
EXTERNAL PERIMETER OUTER	107mm
INTERNAL PERIMETER INNER	33mm
INTERNAL PERIMETER OUTER	77mm
OVERALL EXTERNAL PERIMETER	250mm
POLYAMIDE	PAW939700
Ixx ←	23.1173cm <sup>4</sup>
Iyy ↑	0.7849m <sup>4</sup>

# SPW600e Overswing

# SPW600e.B.306

## Section Identification

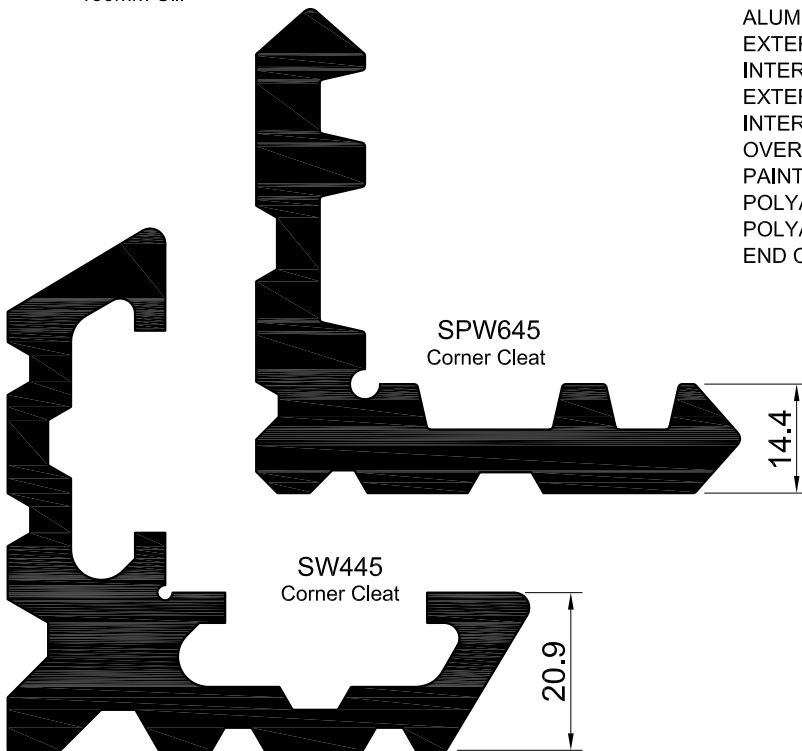
04.12



SPW65653  
150mm Cill

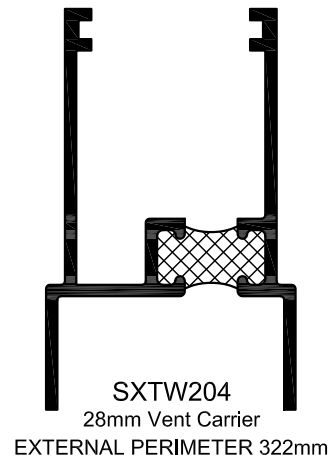
150mm Cill

ALUMINIUM INNER	SPW653
ALUMINIUM OUTER	SPW656
EXTERNAL PERIMETER INNER	147mm
INTERNAL PERIMETER INNER	71mm
EXTERNAL PERIMETER OUTER	342mm
INTERNAL PERIMETER OUTER	238mm
OVERALL EXTERNAL PERIMETER	460mm
PAINTED SURFACE	130mm
POLYAMIDE UPPER	PAW939700
POLYAMIDE LOWER	PAW939700
END CAPS	SCA201LB (Black) SCA201RB (Black) Or SCA201LW (White) SCA201RW (White)

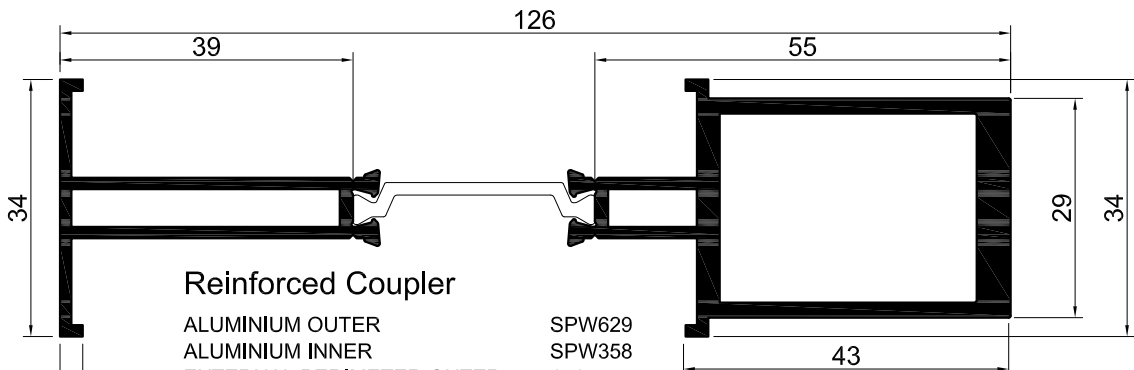


SPW645  
Corner Cleat

SW445  
Corner Cleat



SXTW204  
28mm Vent Carrier  
EXTERNAL PERIMETER 322mm



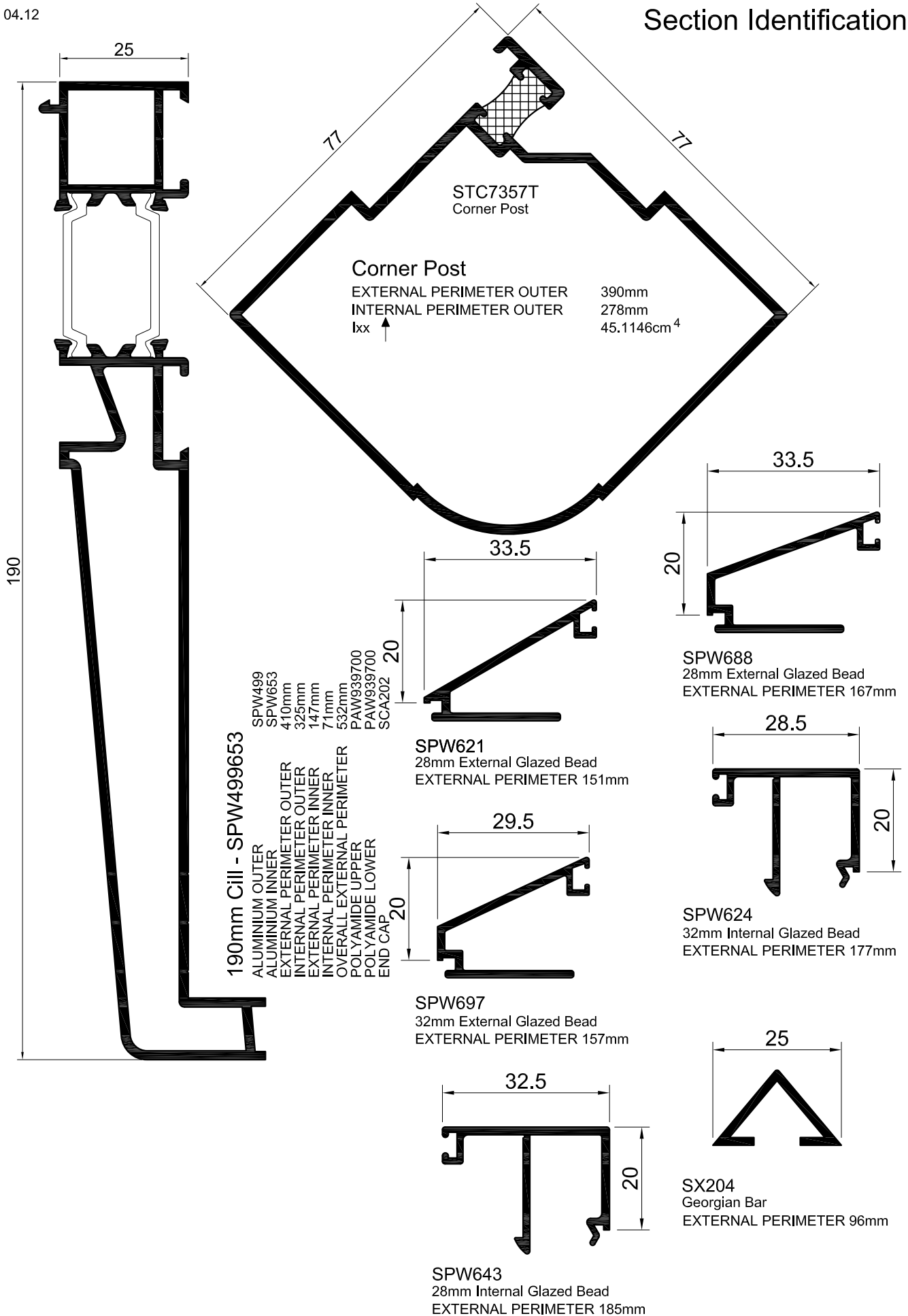
Reinforced Coupler

ALUMINIUM OUTER	SPW629
ALUMINIUM INNER	SPW358
EXTERNAL PERIMETER OUTER	171mm
INTERNAL PERIMETER OUTER	81mm
EXTERNAL PERIMETER INNER	203mm
INTERNAL PERIMETER INNER	118mm
OVERALL EXTERNAL PERIMETER	290mm
POLYAMIDE UPPER	PAW939700
I <sub>xx</sub> ←	113.3932cm <sup>4</sup>
I <sub>yy</sub> ↑	5.1255cm <sup>4</sup>

SPW629358  
Reinforced Coupler

# SPW600e Overswing

## Section Identification

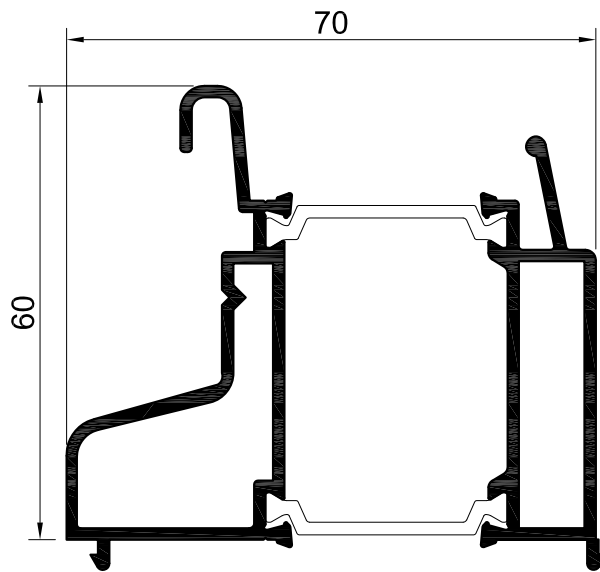


# SPW600e Overswing

## Section Identification

SPW600e.B.308

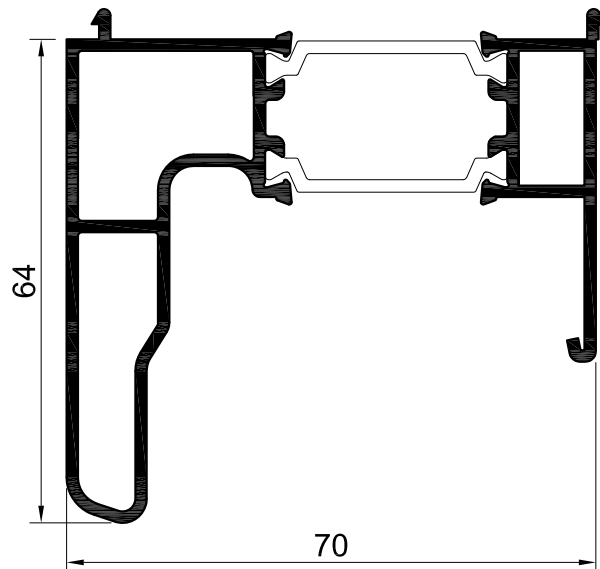
04.12



SPW67172  
Kingspan  
70mm Head Adaptor

### Kingspan 70mm Head Adaptor

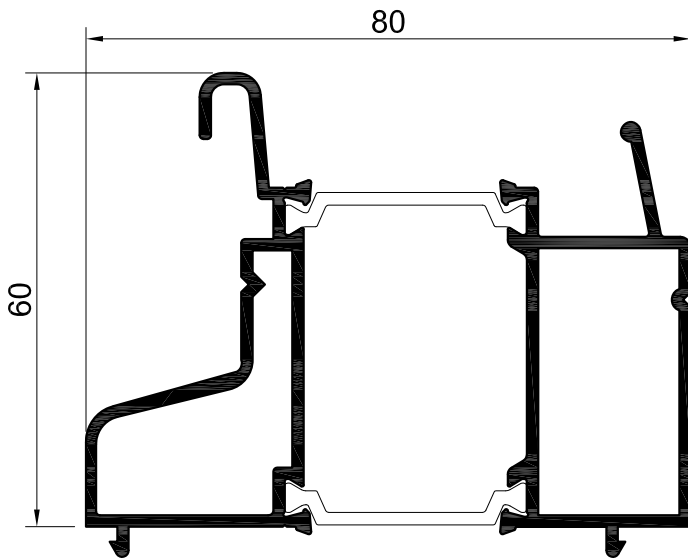
ALUMINIUM INNER	SPW672
ALUMINIUM OUTER	SPW671
EXTERNAL PERIMETER INNER	212mm
INTERNAL PERIMETER INNER	108mm
EXTERNAL PERIMETER OUTER	231mm
INTERNAL PERIMETER OUTER	112mm
OVERALL EXTERNAL PERIMETER	344mm
POLYAMIDE UPPER	PAW939700
POLYAMIDE LOWER	PAW939700



SPW67475  
Kingspan  
70mm Cill/Jamb Adaptor

### Kingspan 70mm Cill/Jamb Adaptor

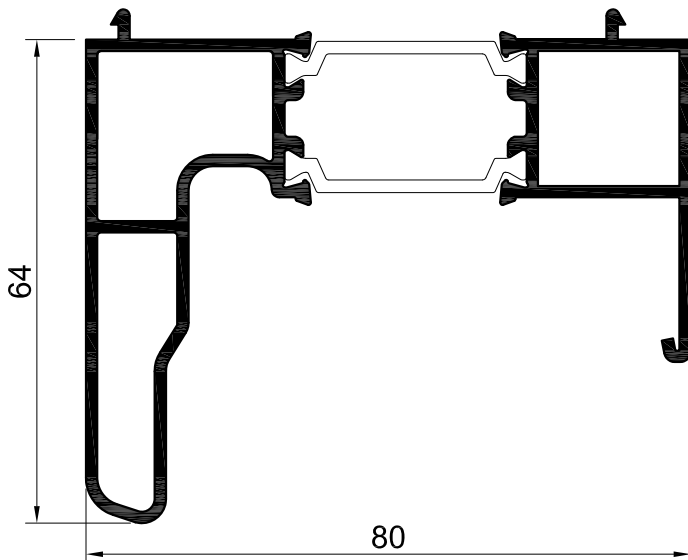
ALUMINIUM INNER	SPW675
ALUMINIUM OUTER	SPW674
EXTERNAL PERIMETER INNER	152mm
INTERNAL PERIMETER INNER	51mm
EXTERNAL PERIMETER OUTER	215mm
INTERNAL PERIMETER OUTER	181mm
OVERALL EXTERNAL PERIMETER	347mm
POLYAMIDE UPPER	PAW939700
POLYAMIDE LOWER	PAW939700



SPW67173  
Kingspan  
80mm Head Adaptor

### Kingspan 80mm Head Adaptor

ALUMINIUM INNER	SPW673
ALUMINIUM OUTER	SPW671
EXTERNAL PERIMETER INNER	203mm
INTERNAL PERIMETER INNER	108mm
EXTERNAL PERIMETER OUTER	231mm
INTERNAL PERIMETER OUTER	115mm
OVERALL EXTERNAL PERIMETER	363mm
POLYAMIDE UPPER	PAW939700
POLYAMIDE LOWER	PAW939700



SPW67476  
Kingspan  
80mm Cill/Jamb Adaptor

### Kingspan 80mm Cill/Jamb Adaptor

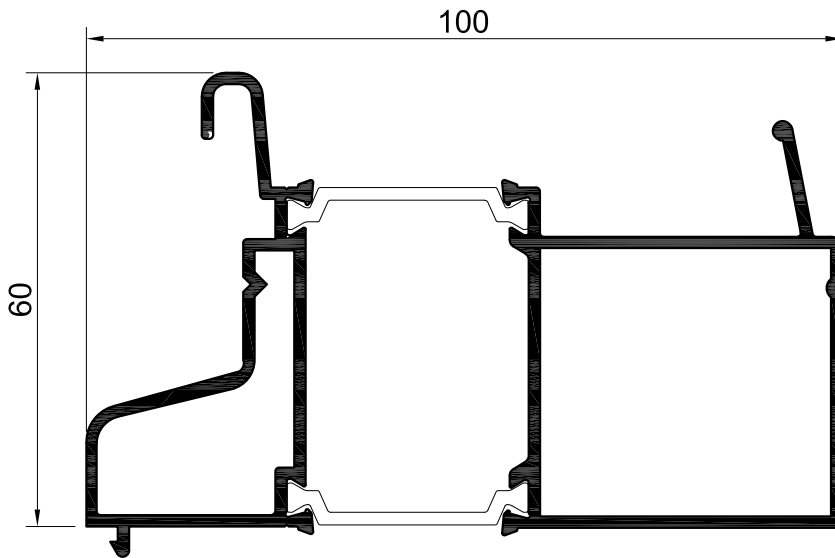
ALUMINIUM INNER	SPW676
ALUMINIUM OUTER	SPW674
EXTERNAL PERIMETER INNER	171mm
INTERNAL PERIMETER INNER	71mm
EXTERNAL PERIMETER OUTER	215mm
INTERNAL PERIMETER OUTER	181mm
OVERALL EXTERNAL PERIMETER	377mm
POLYAMIDE UPPER	PAW939700
POLYAMIDE LOWER	PAW939700

# SPW600e Overswing

## Section Identification

SPW600e.B.310

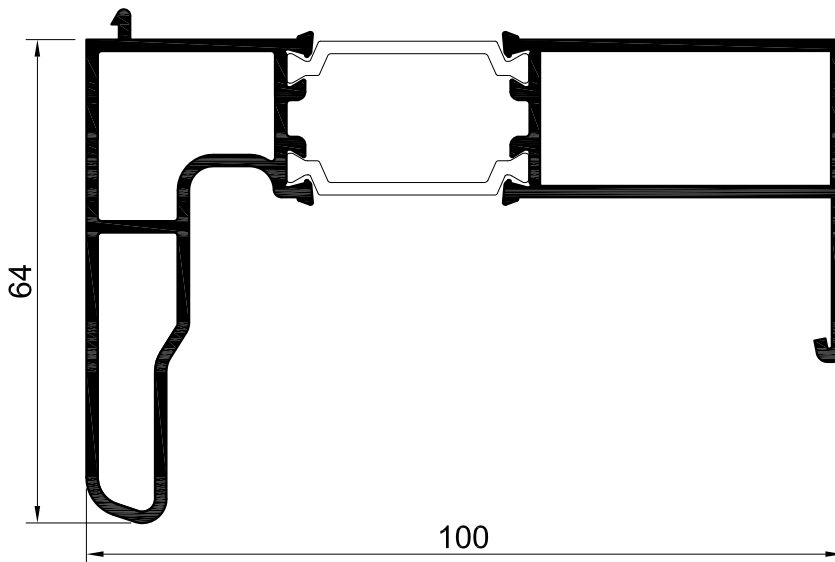
04.12



### Kingspan 100mm Head Adaptor

ALUMINIUM INNER	SPW382
ALUMINIUM OUTER	SPW671
EXTERNAL PERIMETER INNER	232mm
INTERNAL PERIMETER INNER	148mm
EXTERNAL PERIMETER OUTER	231mm
INTERNAL PERIMETER OUTER	115mm
OVERALL EXTERNAL PERIMETER	403mm
POLYAMIDE UPPER	PAW939700
POLYAMIDE LOWER	PAW939700

SPW671382  
Kingspan  
100mm Head Adaptor



### Kingspan 100mm Cill/Jamb Adaptor

ALUMINIUM INNER	SPW381
ALUMINIUM OUTER	SPW674
EXTERNAL PERIMETER INNER	202mm
INTERNAL PERIMETER INNER	112mm
EXTERNAL PERIMETER OUTER	215mm
INTERNAL PERIMETER OUTER	181mm
OVERALL EXTERNAL PERIMETER	417mm
POLYAMIDE UPPER	PAW939700
POLYAMIDE LOWER	PAW939700

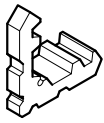
SPW674381  
Kingspan  
100mm Cill/Jamb Adaptor

# SPW600e.C.301

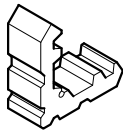
06.13

# SPW600e Overswing

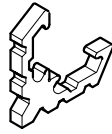
## Accessories



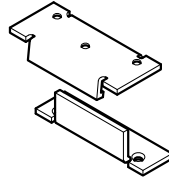
**SPW645CT8**  
Cut Corner Cleat



**SPW645CT28**  
Cut Corner Cleat



**SW445CT8**  
Cut Corner Cleat



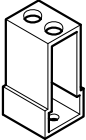
**SPW38223767**  
Security Bracket



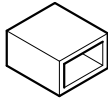
**SPW677CUT**  
Shear Block



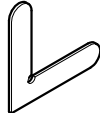
**SPW650CT30**  
Shear Block



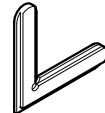
**SPW658CUT**  
Shear Block



**SRT930CUT**  
Pack For Int. Gl. Adaptor



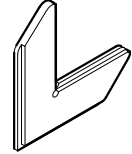
**SW4CH7**  
7mm Corner Chevron



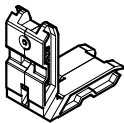
**CHEV7P**  
7mm Corner Chevron  
Plastic



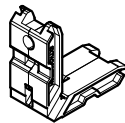
**SW4CH15**  
15mm Corner Chevron



**CHEV15P**  
15mm Corner  
Chevron Plastic



**SXTW281CT28C**  
Cast Corner Cleat



**SXTW281CT28M**  
Cast Mechanical Corner Cleat



**SFSCS0819**  
#8x19Lg Csk  
Self Tapping Screw



**SFSCS07**  
#8x15Lg Csk  
Self Tapping Screw



**SFSCS29**  
#8x40Lg Csk  
Self Tapping Screw



**SFSPS04**  
#10x12Lg P/Hd  
Self Tapping Screw



**SFSPS28**  
#8x12Lg P/Hd  
Self Tapping Screw



**SFSCS03**  
#8x12Lg Csk  
Self Tapping Screw

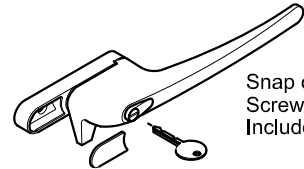


**SFSCS30**  
#8x25Lg Csk  
Self Tapping Screw



**SW2PB**  
2mm Black Pack For SW9L

**SW2PW**  
2mm White Pack For SW9L



Snap on  
Screw Covers  
Included



**SW4D**  
Drain Hole Cover Black  
**SW4DW**  
Drain Hole Cover White



**SWHW3W**  
Handle Wedge White 3mm  
**SWHW3B**  
Handle Wedge Black 3mm



**SFSPM36**  
M4x5Lg  
M/C Screw

### Cockspur Handle Key Locking

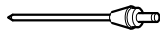
- SW9LLS** 9.5mm B/Set LH Silver
- SW9LLB** 9.5mm B/Set LH Black
- SW9LLW** 9.5mm B/Set LH White
- SW9LLG** 9.5mm B/Set LH Gold
- SW9LRS** 9.5mm B/Set RH Silver
- SW9LRB** 9.5mm B/Set RH Black
- SW9LRW** 9.5mm B/Set RH White
- SW9LRG** 9.5mm B/Set RH Gold



**SWTP**  
Celloc Pin  
Ø2x12Lg



**SFSCS850**  
#8x50Lg Csk  
Self Tapping Screw



**SWWBS**  
Weatherbar Stud Rivet  
for SXTW216

**SW3E2019XX**  
Espag Rail (See Section E)

**SCA201RB**  
Cill End Cap RH Black

**SCA201LB**  
Cill End Cap LH Black

**SCA201RW**  
Cill End Cap RH White

**SCA201LW**  
Cill End Cap LH White

**SPW660ECW**  
SPW660 Weather Bar  
Pr End Caps White

**SPW660ECB**  
SPW660 Weather Bar  
Pr End Caps Black

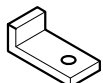
**INLINEBS**  
& **SPIN65MM**  
Brushed Stainless  
Handle & 65mm Spindle

**INLINEB**  
& **SPIN65MM**  
Black Handle  
& 65mm Spindle

**INLINEW**  
& **SPIN65MM**  
White Handle  
& 65mm Spindle

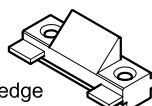
**INLINEPC**  
& **SPIN65MM**  
Polished Chrome  
& 65mm Spindle

**SW362147SC**  
Keep For Cams

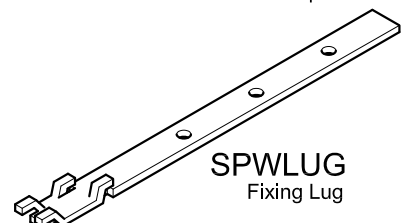


**SOKA01**  
Angle Cleat For Keep

**HYLW**  
Locking Wedge



**SPWLUG**  
Fixing Lug



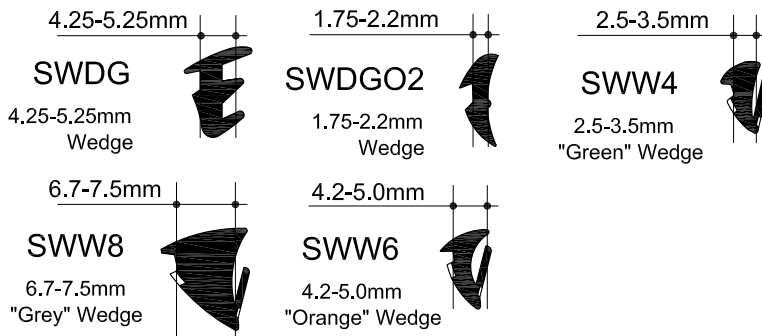
# SPW600e Overswing

SPW600e.C.302

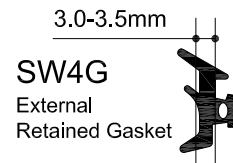
## Accessories

09.14

### Wedge Gaskets



### Captive Gasket



### Plant On Georgian Bar

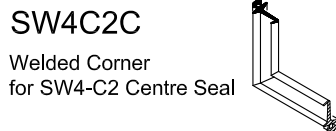


NOTE: Sizes are nominal. Wedge gasket may need to be altered to accommodate tolerance in extrusion & glass units

### Weathering



### Centre Seal



### 'Glazed Out' SPW600e.Outer Frames and Vents

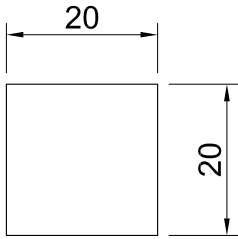
Glass Thickness(mm)	Glazing Space	Bead Reference	Wedge Internal	Captive External
28.0	36.0	SPW621	SWDG	SW4G
32.0	40.0	SPW697	SWDG	SW4G

NOTE: Check Hardware Suitability When Using Heavy Glazing Panels

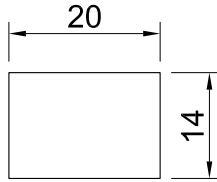
### 'Glazed In' SPW600e.Outer Frames and Vents

Glass Thickness(mm)	Glazing Space	Bead Reference	Wedge Internal	Captive External
28.0	36.0	SPW643	SWDG	SW4G
30.0	38.5	†SW463	SWDG	SW4G
32.0	40.0	SPW624	SWDG	SW4G
36.0	44.0	†SW467	SWDG	SW4G
48.0	56.0	†SW461	SWDG	SW4G
52.0	60.0	†SW464	SWDG	SW4G
56.0	64.0	†SW476	SWDG	SW4G

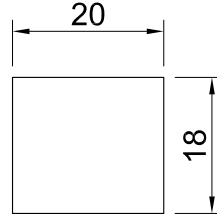
† Non Standard Beads May Not Be Available - Check With SAS  
Check Hardware Suitability When Using Heavy Glazing Panels



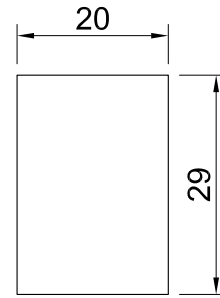
**EPS008**  
20mm x 20mm  
Foam Insert



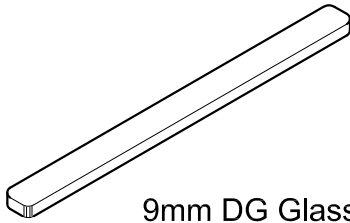
**EPS004**  
20mm x 14mm  
Foam Insert



**EPS003**  
20mm x 18mm  
Foam Insert

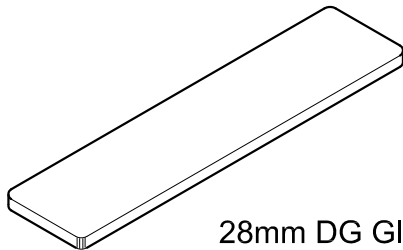


**EPS001**  
20mm x 29mm  
Foam Insert



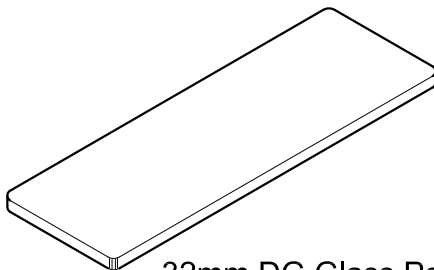
### 9mm DG Glass Packs

**SGP9x5mm** 9mm x 100mm DG Glass Packer @ 5mm thick, Blue.



### 28mm DG Glass Packs

- SGP28x1mm** 28mm x 100mm DG Glass Packer @ 1mm thick, Green.
- SGP28x2mm** 28mm x 100mm DG Glass Packer @ 2mm thick, Black.
- SGP28x3mm** 28mm x 100mm DG Glass Packer @ 3mm thick, White.
- SGP28x4mm** 28mm x 100mm DG Glass Packer @ 4mm thick, Grey.
- SGP28x5mm** 28mm x 100mm DG Glass Packer @ 5mm thick, Blue.
- SGP28x6mm** 28mm x 100mm DG Glass Packer @ 6mm thick, Red.



### 32mm DG Glass Packs

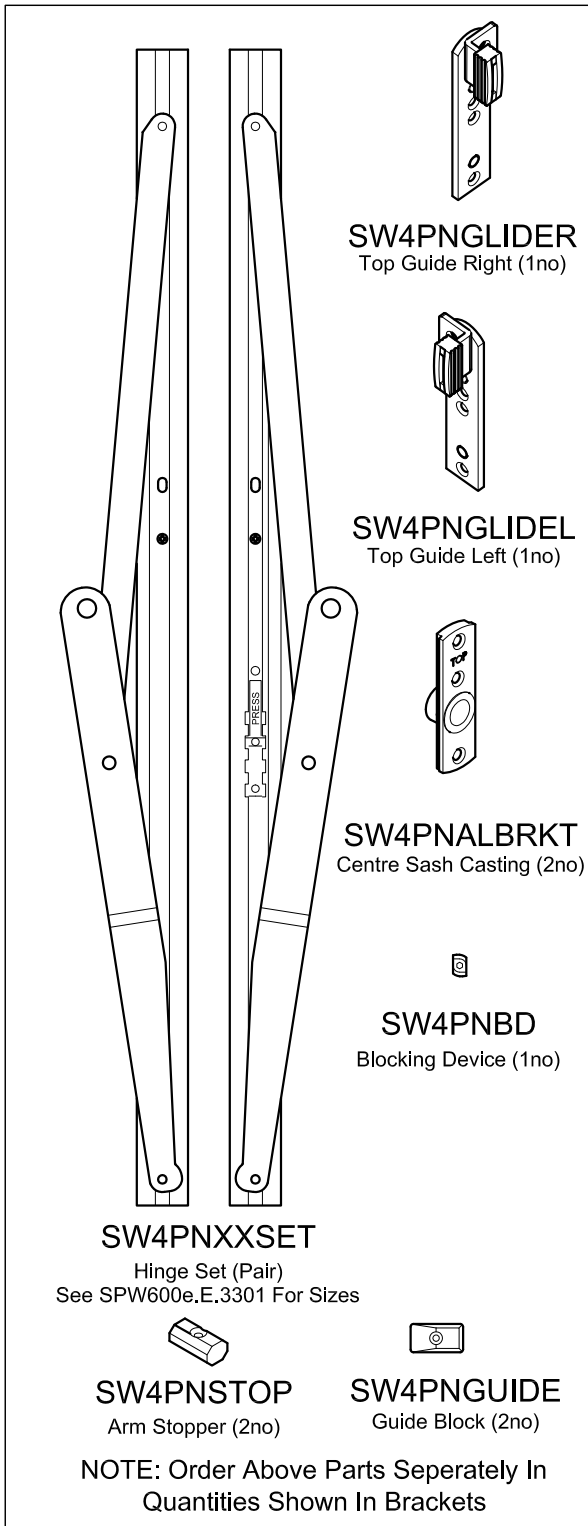
- SGP32x2mm** 32mm x 100mm DG Glass Packer @ 2mm thick, Black.
- SGP32x5mm** 32mm x 100mm DG Glass Packer @ 5mm thick, Blue.

# SPW600e Overswing

SPW600e.C.304

## Accessories


04.12



### PN UNI Overswing Gearing Weight Limitation 60Kg

SW4PN06SET	Overswing Gear No 6 Set
SW4PN06.5SET	Overswing Gear No 6.5 Set
SW4PN07SET	Overswing Gear No 7 Set
SW4PN07.5SET	Overswing Gear No 7.5 Set
SW4PN08SET	Overswing Gear No 8 Set
SW4PN08.5SET	Overswing Gear No 8.5 Set
SW4PN09SET	Overswing Gear No 9 Set
SW4PN09.5SET	Overswing Gear No 9.5 Set
SW4PN10SET	Overswing Gear No 10 Set
SW4PN10.5SET	Overswing Gear No 10.5 Set
SW4PN11SET	Overswing Gear No 11 Set
SW4PN11.5SET	Overswing Gear No 11.5 Set
SW4PN12SET	Overswing Gear No 12 Set
SW4PN12.5SET	Overswing Gear No 12.5 Set
SW4PN13SET	Overswing Gear No 13 Set
SW4PN13.5SET	Overswing Gear No 13.5 Set
SW4PN14SET	Overswing Gear No 14 Set
SW4PN14.5SET	Overswing Gear No 14.5 Set
SW4PN15SET	Overswing Gear No 15 Set
SW4PN15.5SET	Overswing Gear No 15.5 Set
SW4PN16SET	Overswing Gear No 16 Set
SW4PN16.5SET	Overswing Gear No 16.5 Set

### Grorud Overswing Gearing Weight Limitation 80kg

SGOM4	24308100	<b>SGOABB</b> Anti 'Blow-Back' Compression Block (1no)
SGOM4.5	24308101	
SGOM5	24308102	
SGOM5.5	24308103	
SGOM6	24308104	
SGOM6.5	24308105	
SGOM7	24308106	
SGOM7.5	24308107	
SGOM8	24308108	
SGOM8.5	24308109	
SGOM9	24308110	
SGOM9.5	24308111	
SGOM10	24308112	
SGOM10.5	24308113	
SGOM11	24308114	
SGOM12	24308116	
SGOM12.5	24308117	
SGOM13	24308118	
SGOM13.5	24308119	
SGOM14	24308120	
SGOM14.5	24308121	
SGOM15	24308122	
SGOM15.5	24308123	
SGOM16	24308124	

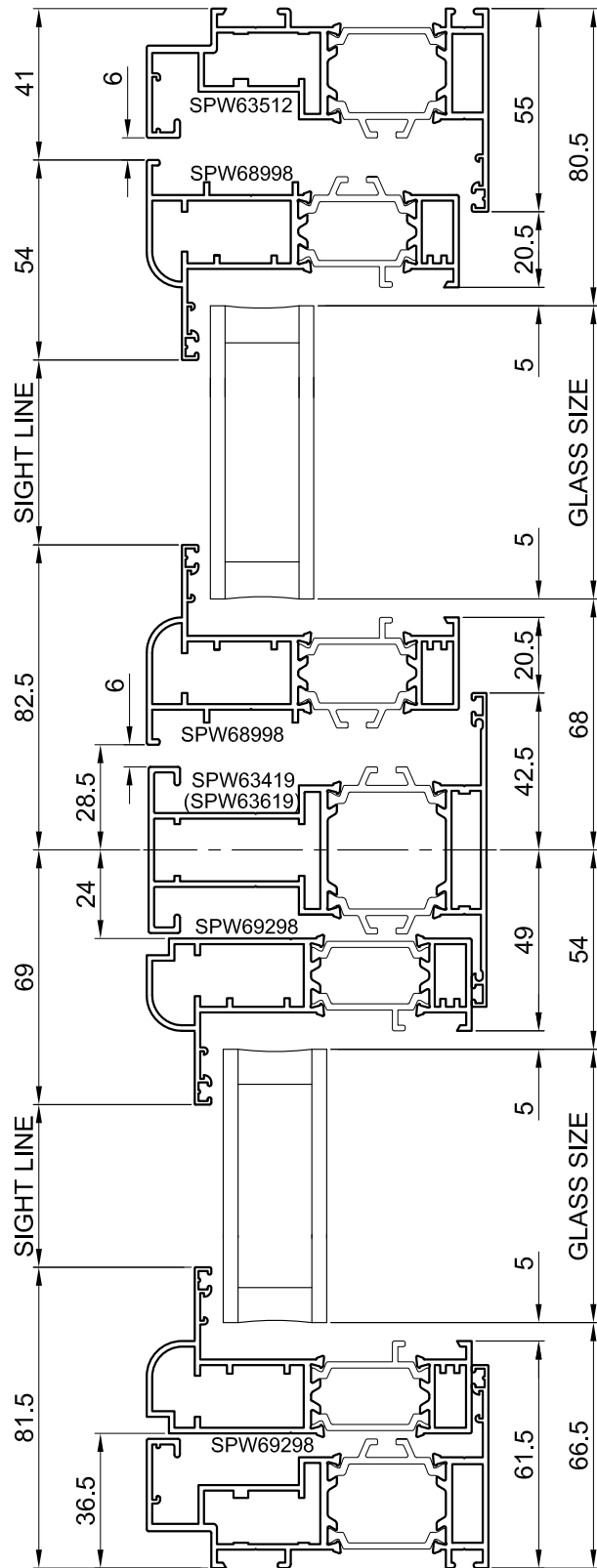
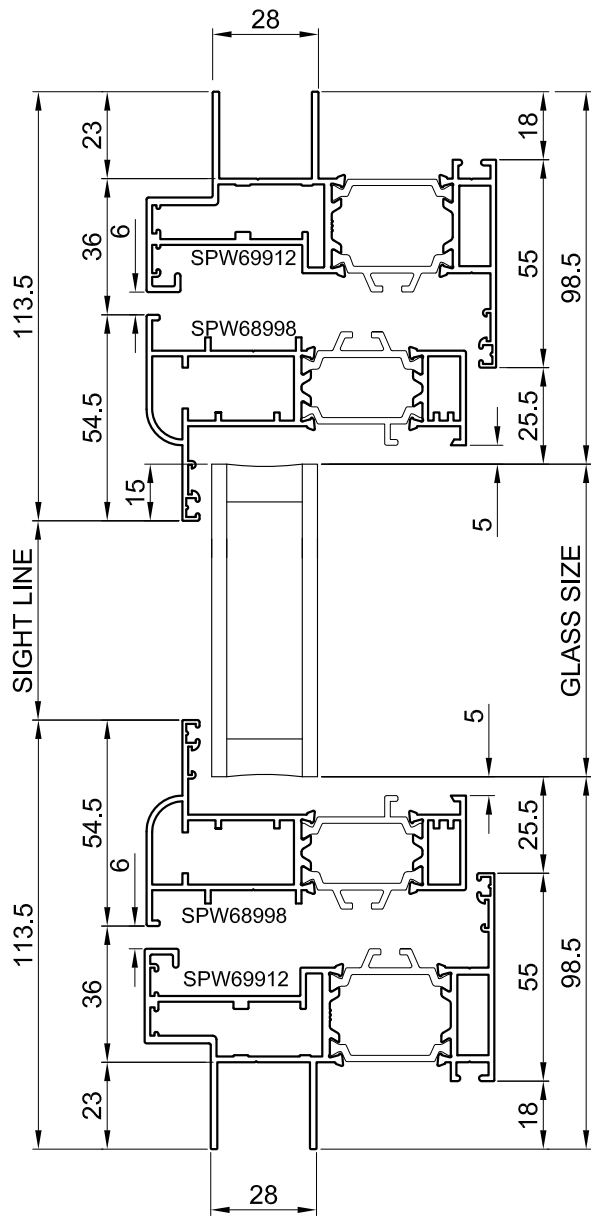


# SPW600e Overswing

Deductions - Frame And Glass

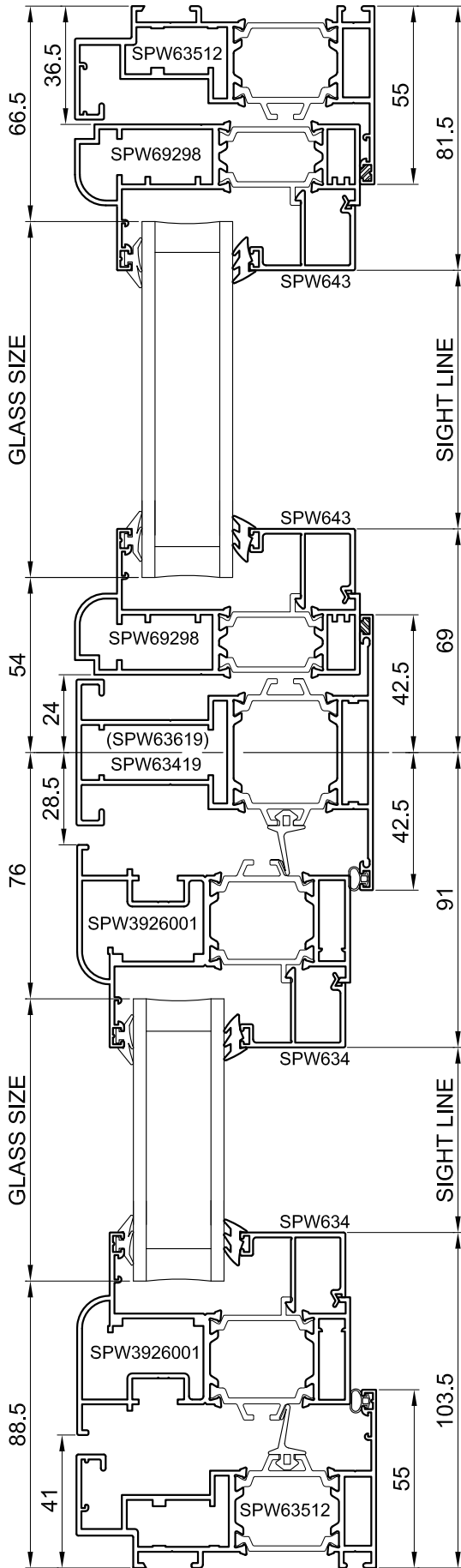
SPW600e.D.302

04.12



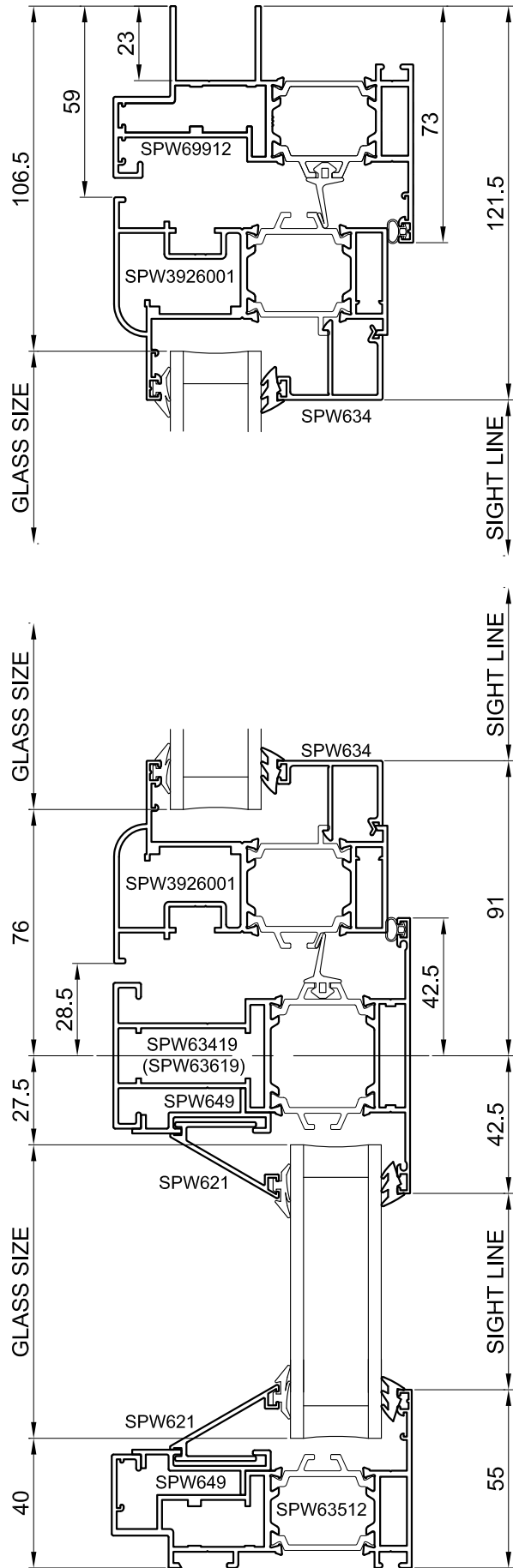
# SPW600e.D.303

04.12



# SPW600e Overswing

Deductions - Frame And Glass

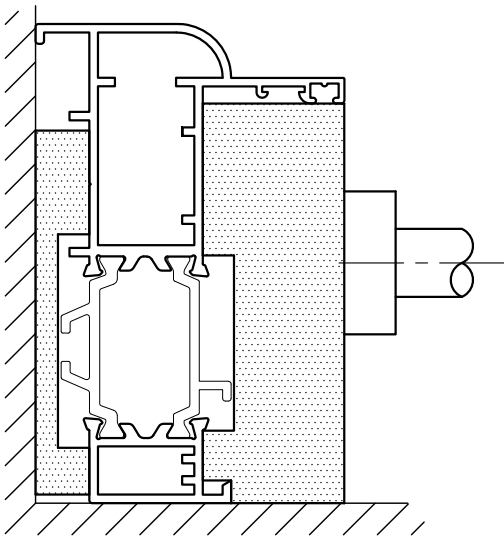


# SPW600e Overswing

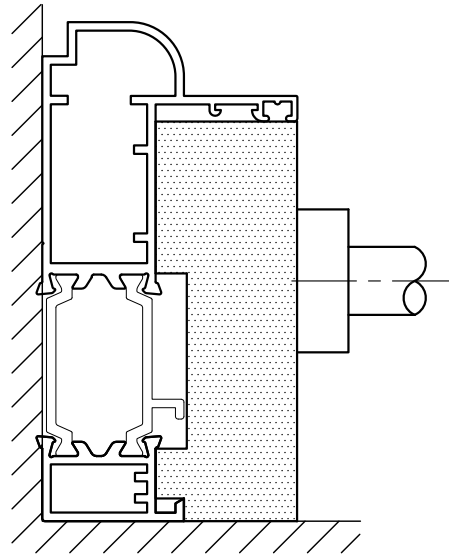
SPW600e.D.304

## Cutting-Clamping Profiles-Suggested Method Of Placement

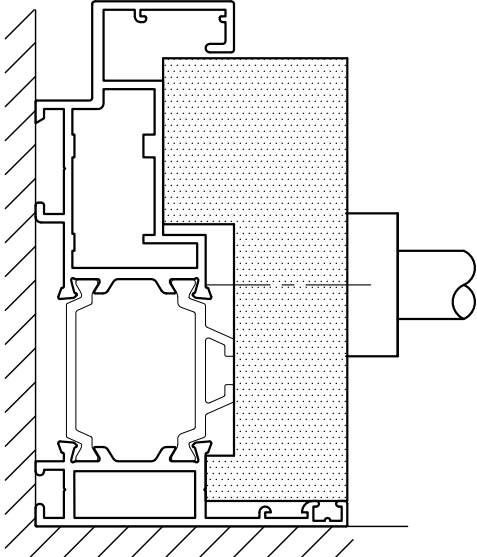
04.12



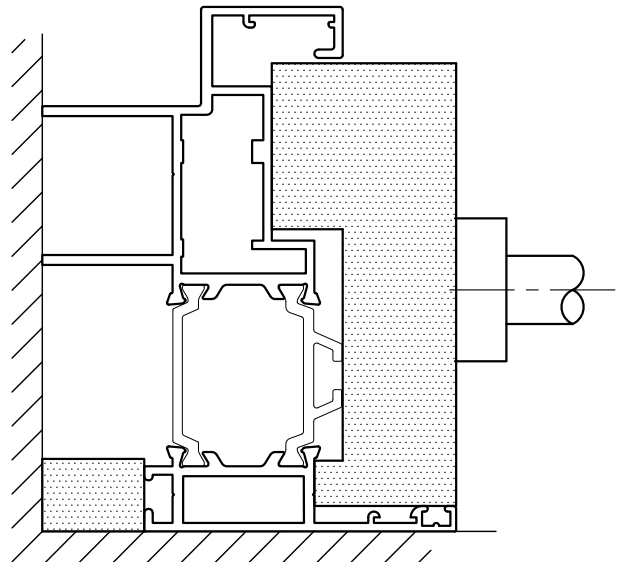
SPW68998  
Overswing Internal Glaze Vent



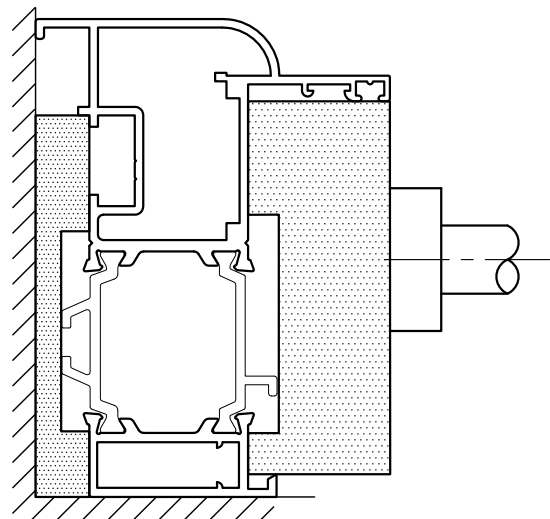
SPW69298  
Overswing Internal Glaze Adaptor



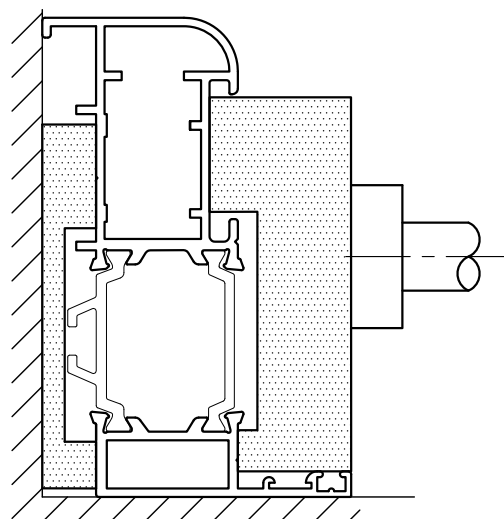
SPW63512  
Overswing Outer Frame



SPW395612  
28mm C/Wall Overswing Outer Frame



SPW3926001  
Overswing Espag Vent Internal Glaze



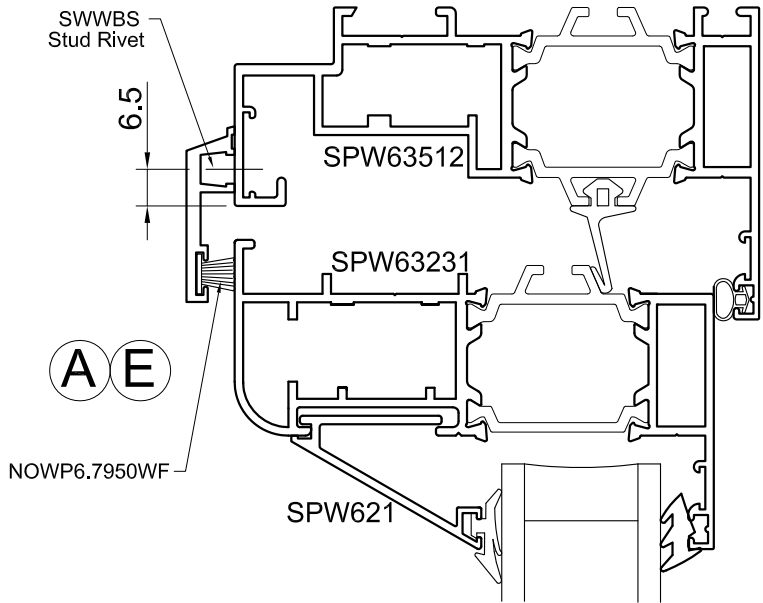
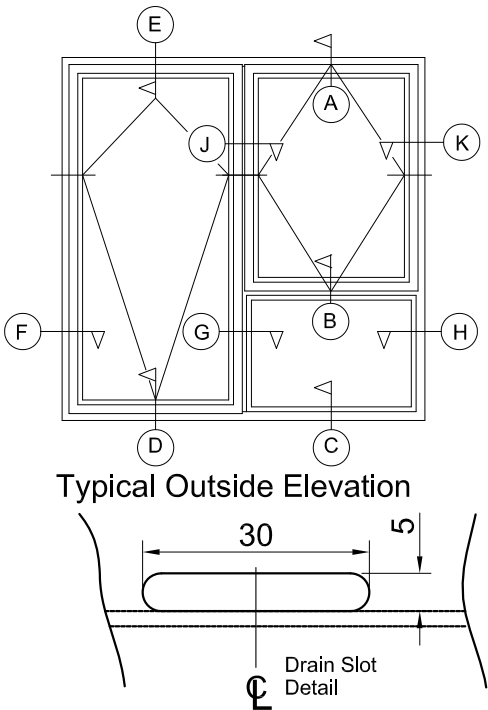
SPW63231  
Overswing External Glaze Vent

# SPW600e.D.305

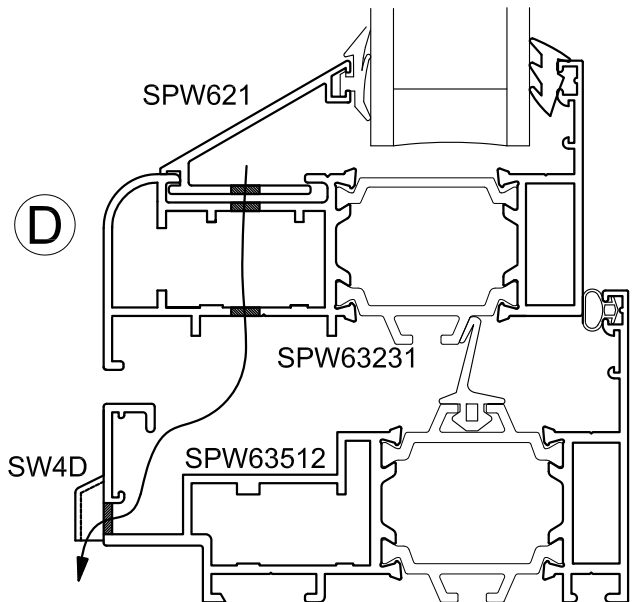
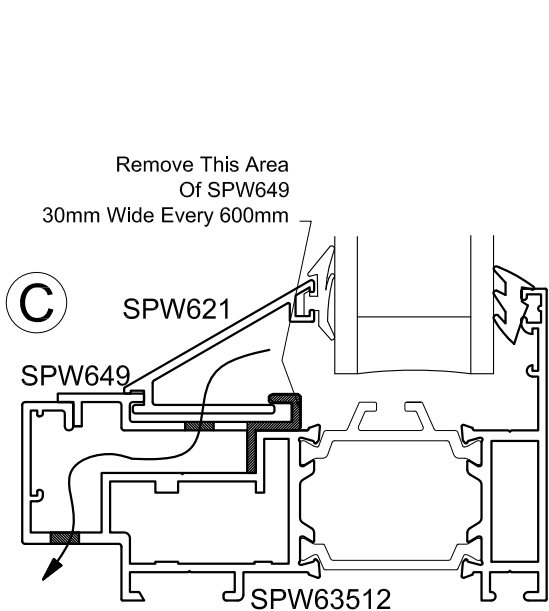
04.12

# SPW600e Overswing

Drainage - External Glazed



Machine Drainage Slots 65mm From Corner Of Glazing Aperture At A Minimum Of 600mm Centres.  
**ALL DRAINAGE TO BE IN LINE**

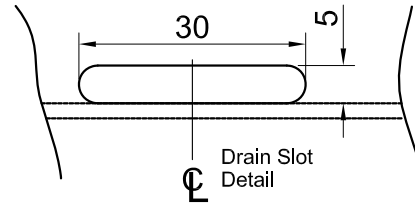
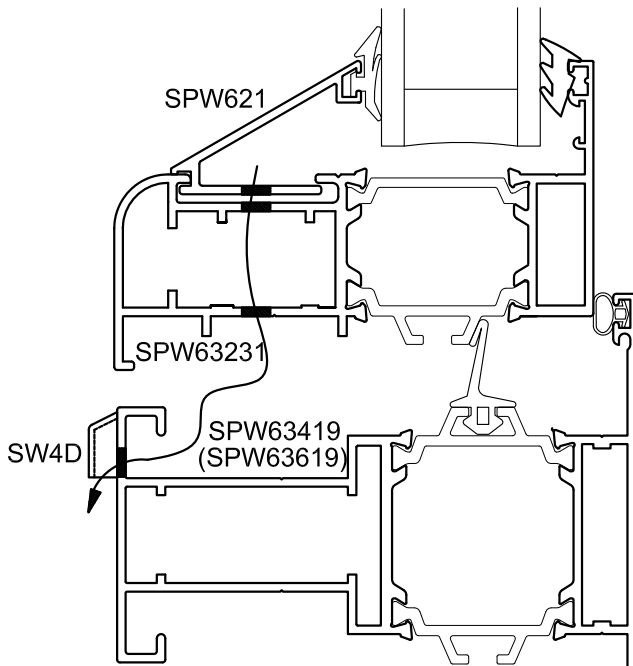


# SPW600e Overswing

Drainage Overswing - External Glazed

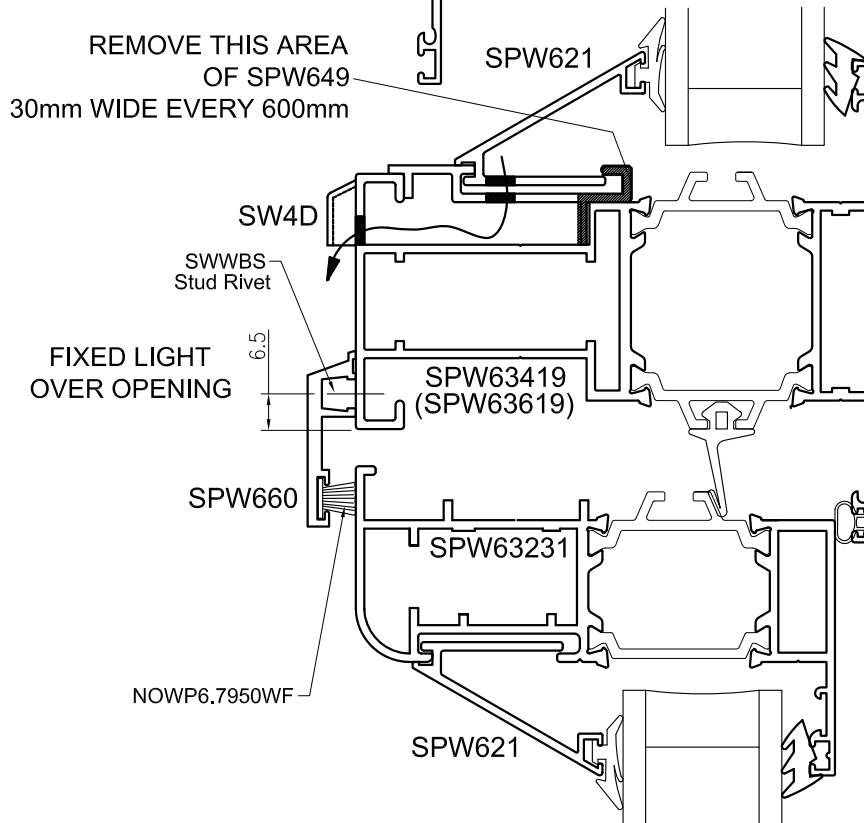
SPW600e.D.306

04.12



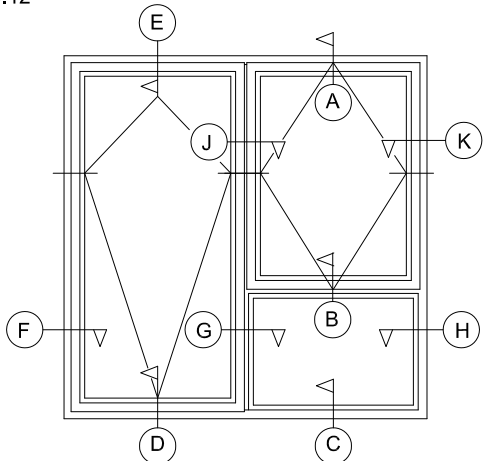
MACHINE DRAINAGE SLOTS 65mm FROM CORNERS OF GLAZING APERTURE AT A MINIMUM OF 600mm CENTRES ALL DRAINAGE TO BE IN LINE

(B)

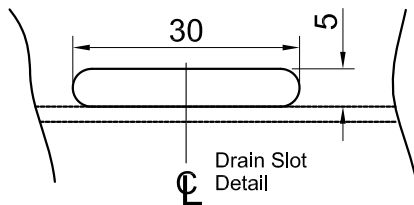


# SPW600e.D.307

04.12



Typical Outside Elevation

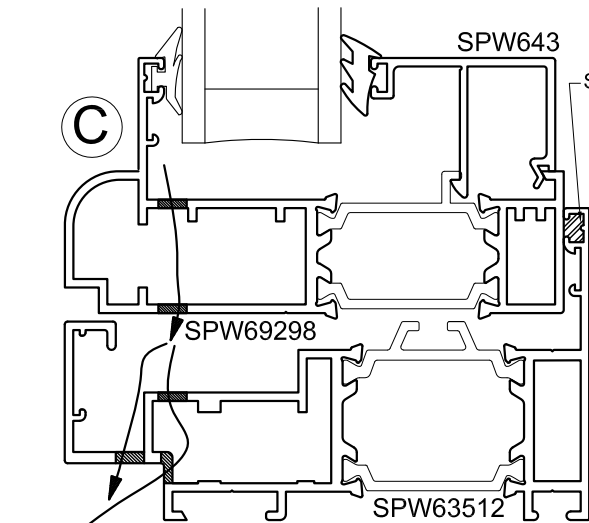
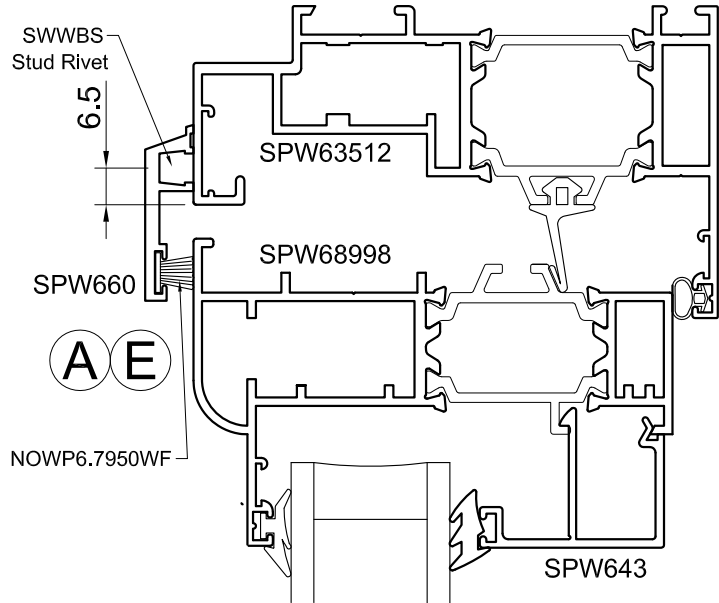


Drain Slot Detail

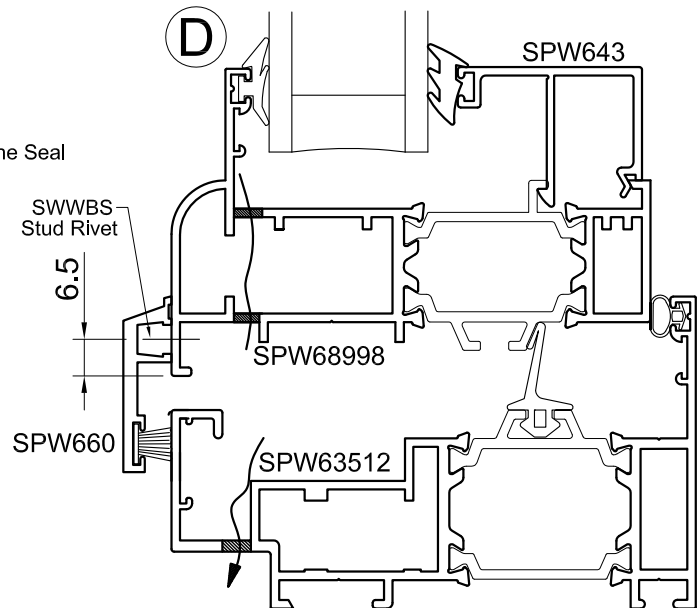
Machine Drainage Slots 65mm From Corner Of Glazing Aperture At A Minimum Of 600mm Centres.  
**ALL DRAINAGE TO BE IN LINE**

# SPW600e Overswing

Drainage - Internal Glazed



Alternative Drainage Path

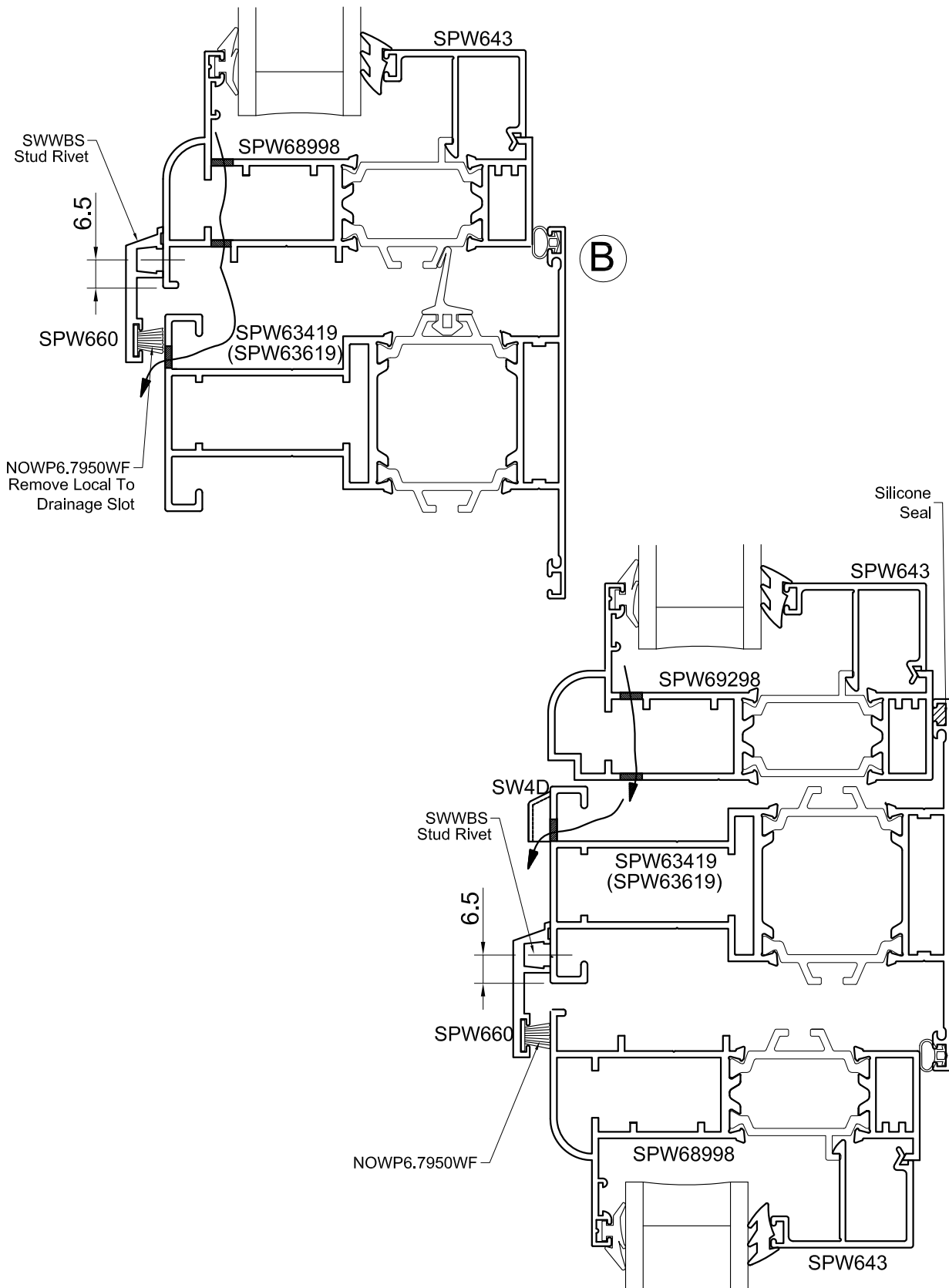


# SPW600e Overswing

Drainage - Internal Glazed

SPW600e.D.308

04.12

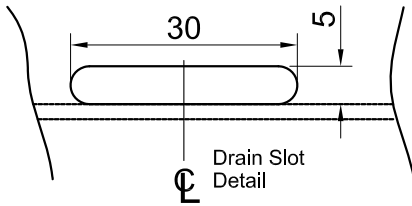


# SPW600e.D.309

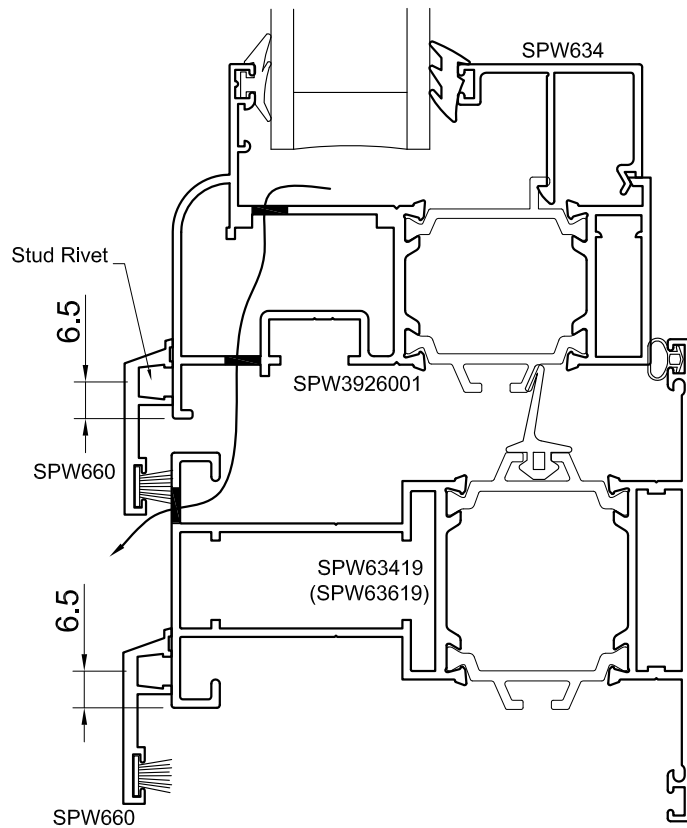
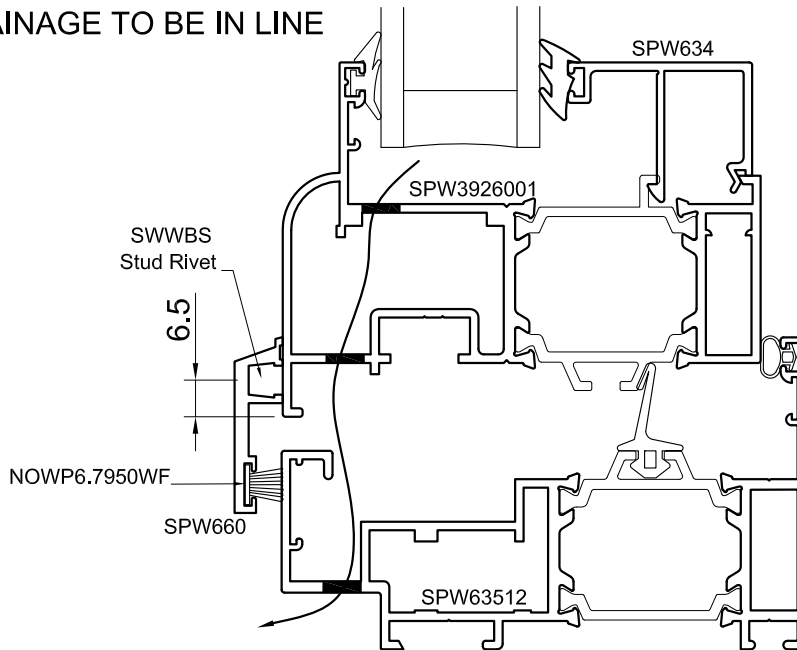
04.12

# SPW600e Overswing

## Drainage - Espag Vent



Machine Drainage Slots 65mm From Corner Of Glazing Aperture At A Minimum Of 600mm Centres.  
ALL DRAINAGE TO BE IN LINE

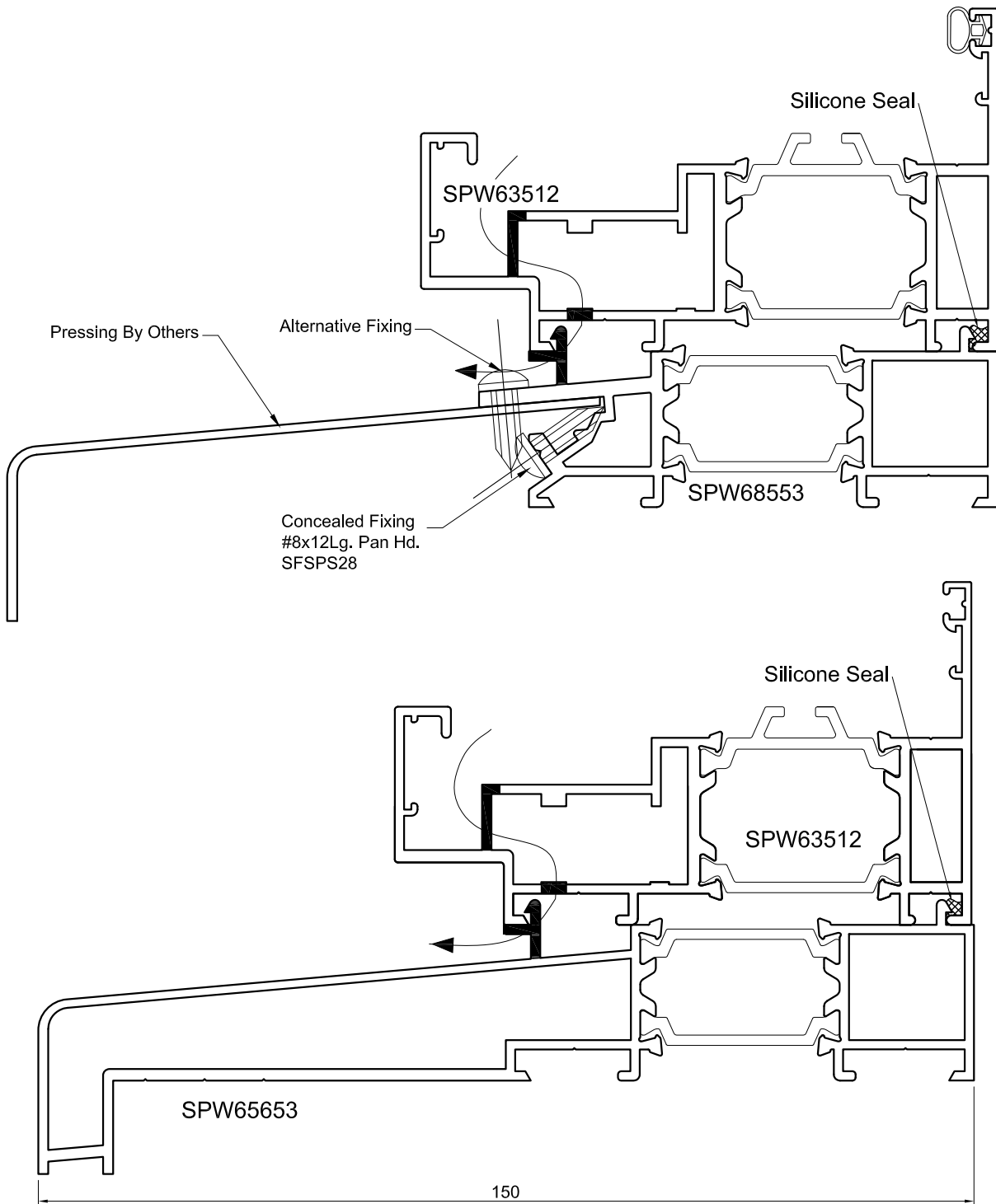


# SPW600e Overswing

Drainage - Drainage Tray & 150mm Cill

SPW600e.D.310

04.12

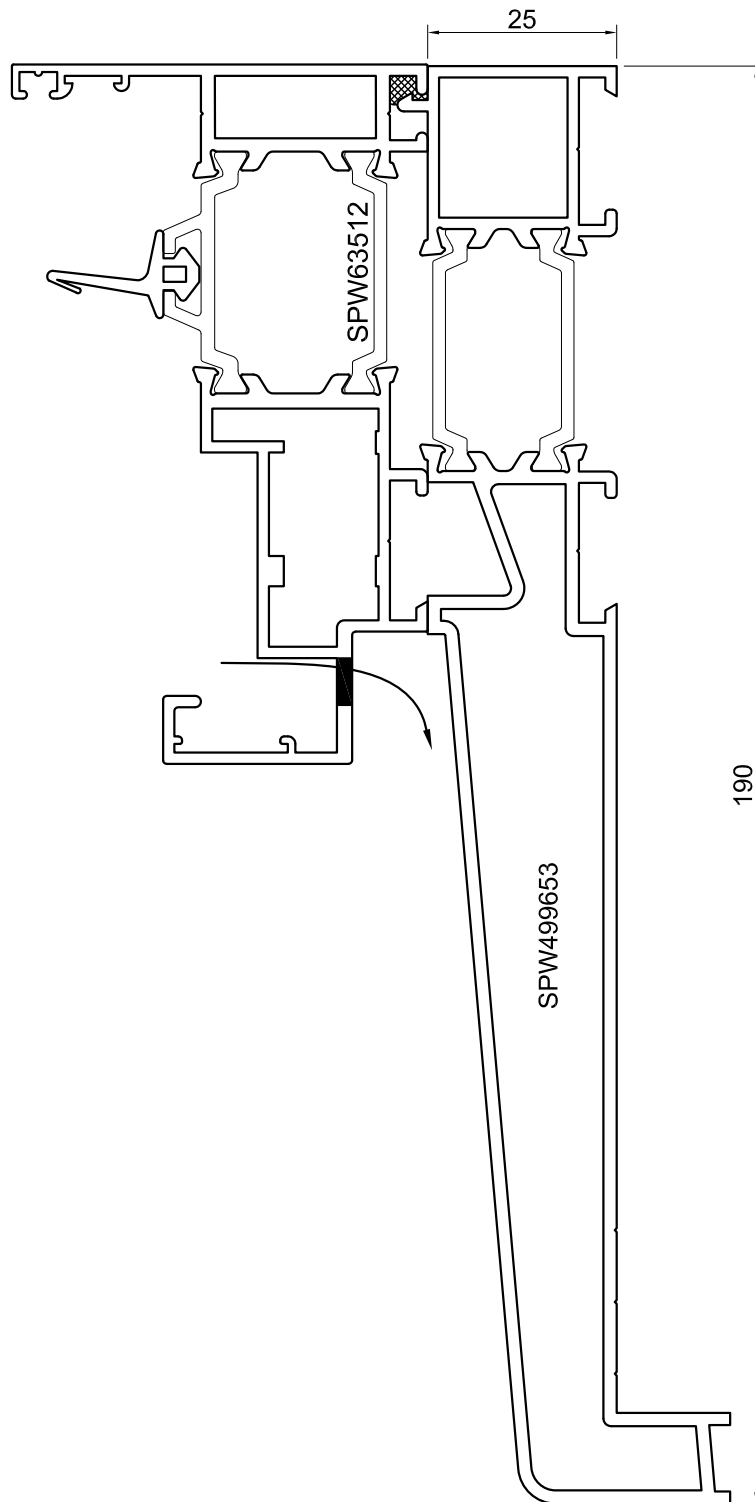


SPW600e.D.311

04.12

# SPW600e Overswing

Drainage - 190mm Cill Detail



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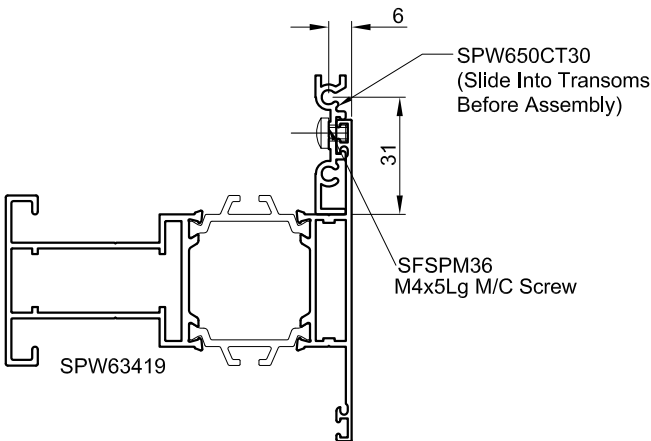
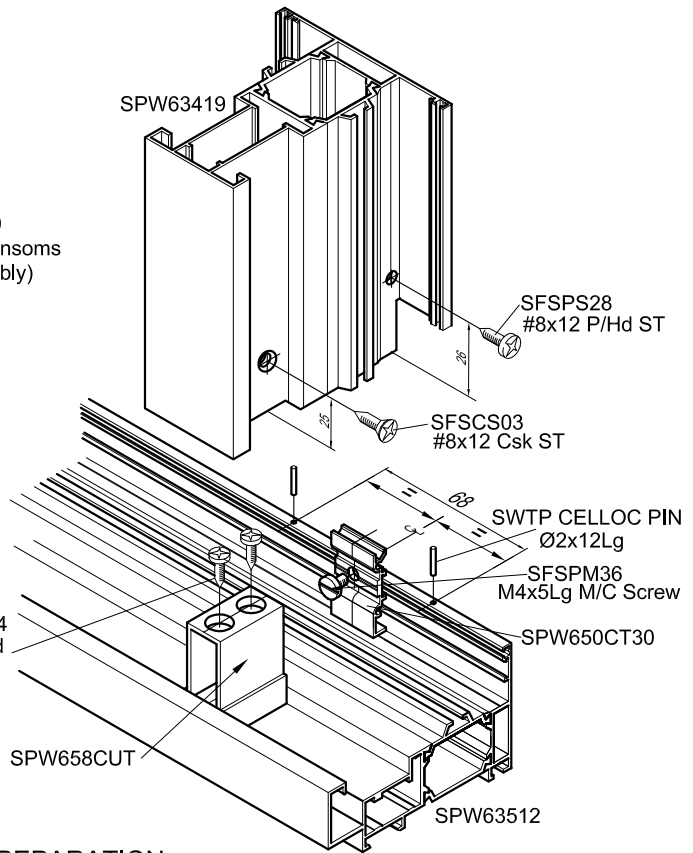
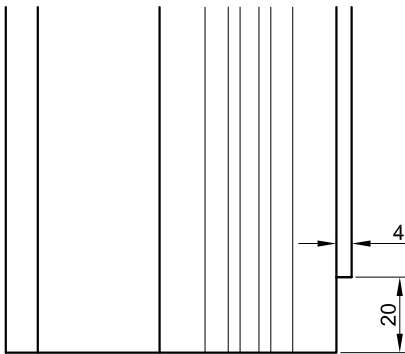
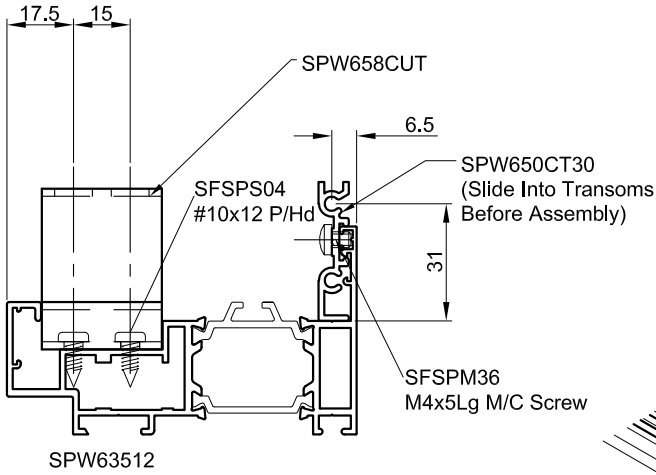
# SPW600e.E.3101

04.12

# SPW600e Overswing

## Transom/Mullion - Shear Block

NOTE: CRUCIFORM JOINTS CAN ONLY BE FORMED USING SHEARBLOCKS



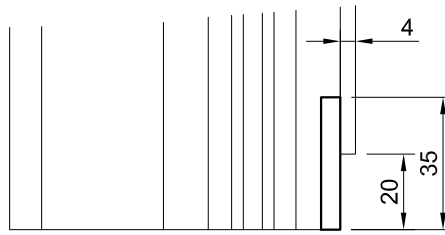
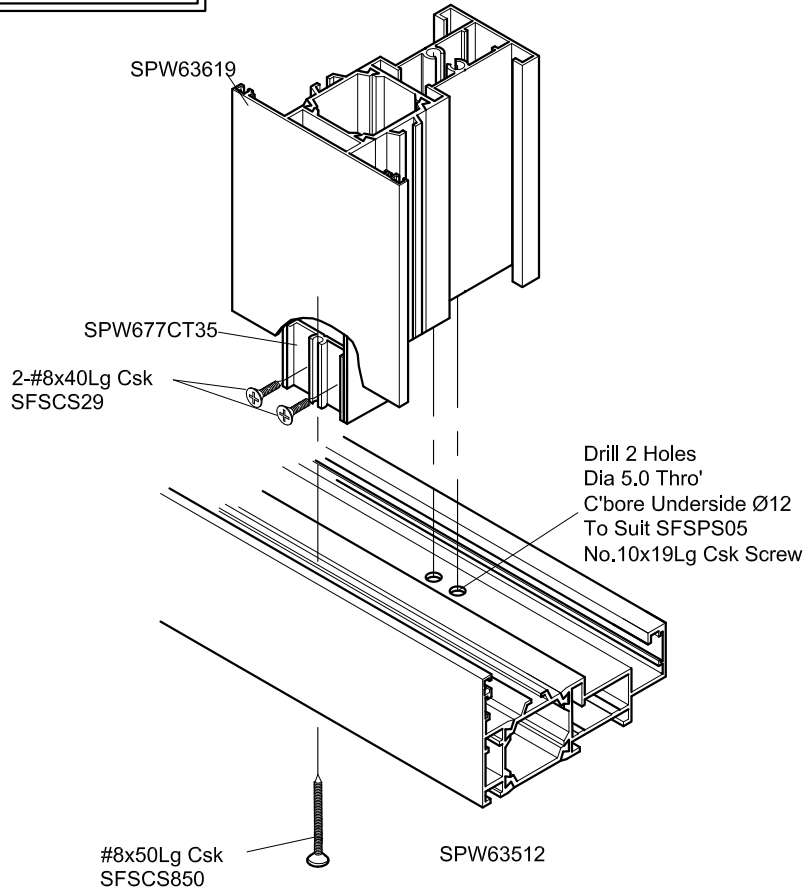
# SPW600e Overswing

SPW600e.E.3102

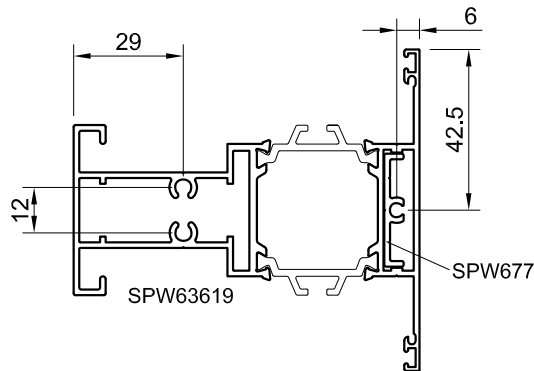
Transom/Mullion - Screwport

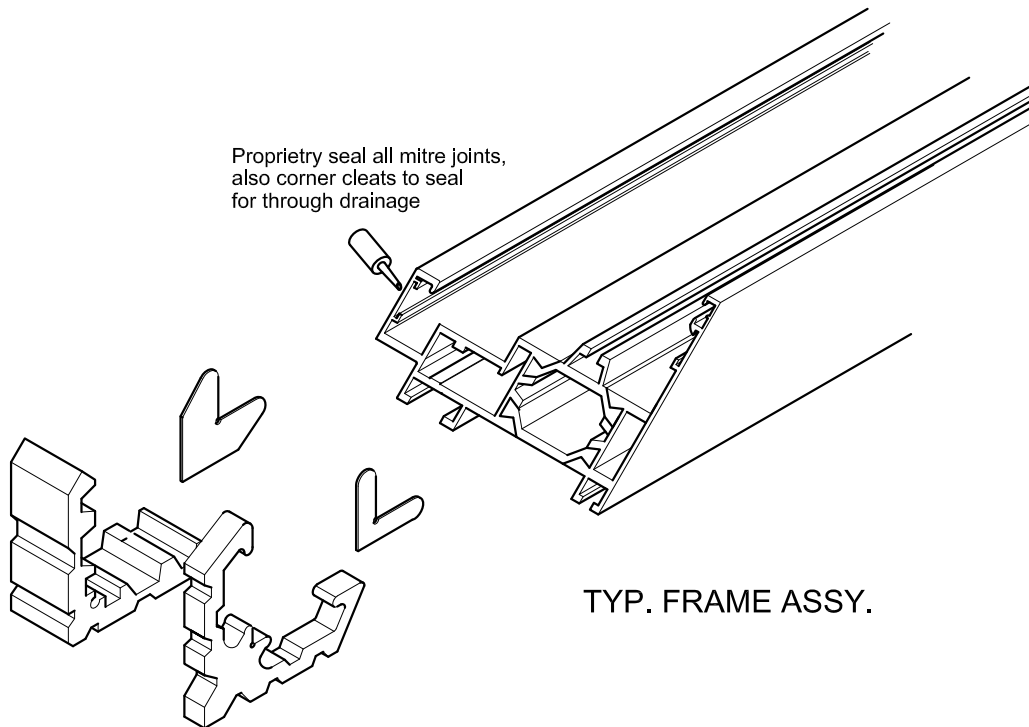
04.12

NOTE: CRUCIFORM JOINTS CAN ONLY BE FORMED USING SHEARBLOCKS



TRANSOM PREPARATION





Note: For Improved Strength, Use Cosmopur 819 (300ml) 3COS0073 Aluminium Glue or Similar On Cleats Before Assembly.

SECTION	INNER CLEAT	OUTER CLEAT	OUTER CHEVRON	INNER CHEVRON
SPW63512	SW445CT8	SXTW281CT28C or SXTW281CT28M	SW4CH15 or CHEV15P	SW4CH7 or CHEV7P
SPW63231	SW445CT8	SPW645CT28	N/A	SW4CH7 or CHEV7P
SPW69298	SPW645CT8	SPW645CT28	SW4CH7 or CHEV7P	N/A
SPW68998	SPW645CT8	SPW645CT28	SW4CH7 or CHEV7P	N/A
SPW395612	SW445CT8	SXTW281CT28C or SXTW281CT28M	SW4CH15 or CHEV15P	SW4CH7 or CHEV7P
SPW3926001	SW445CT8	SW645CT28	SW4CH7 or CHEV7P	N/A

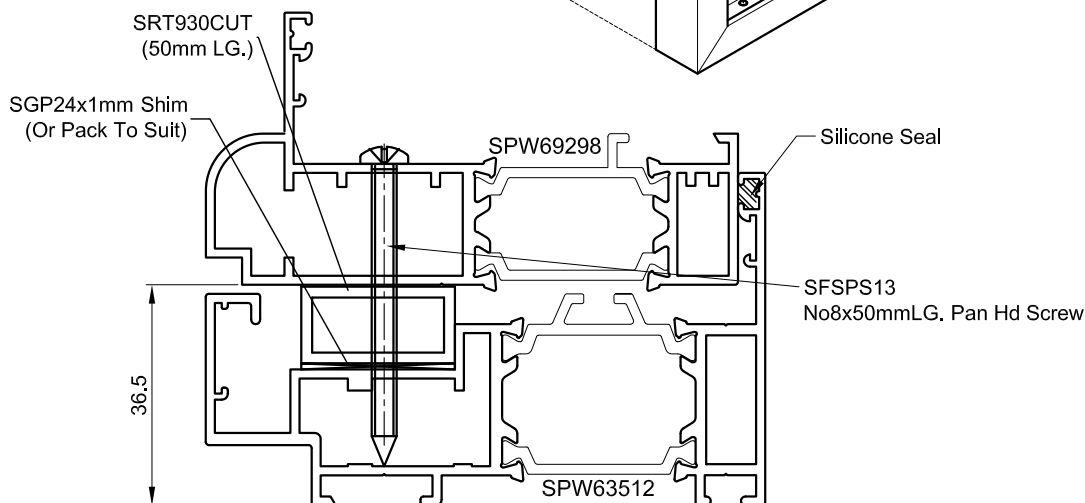
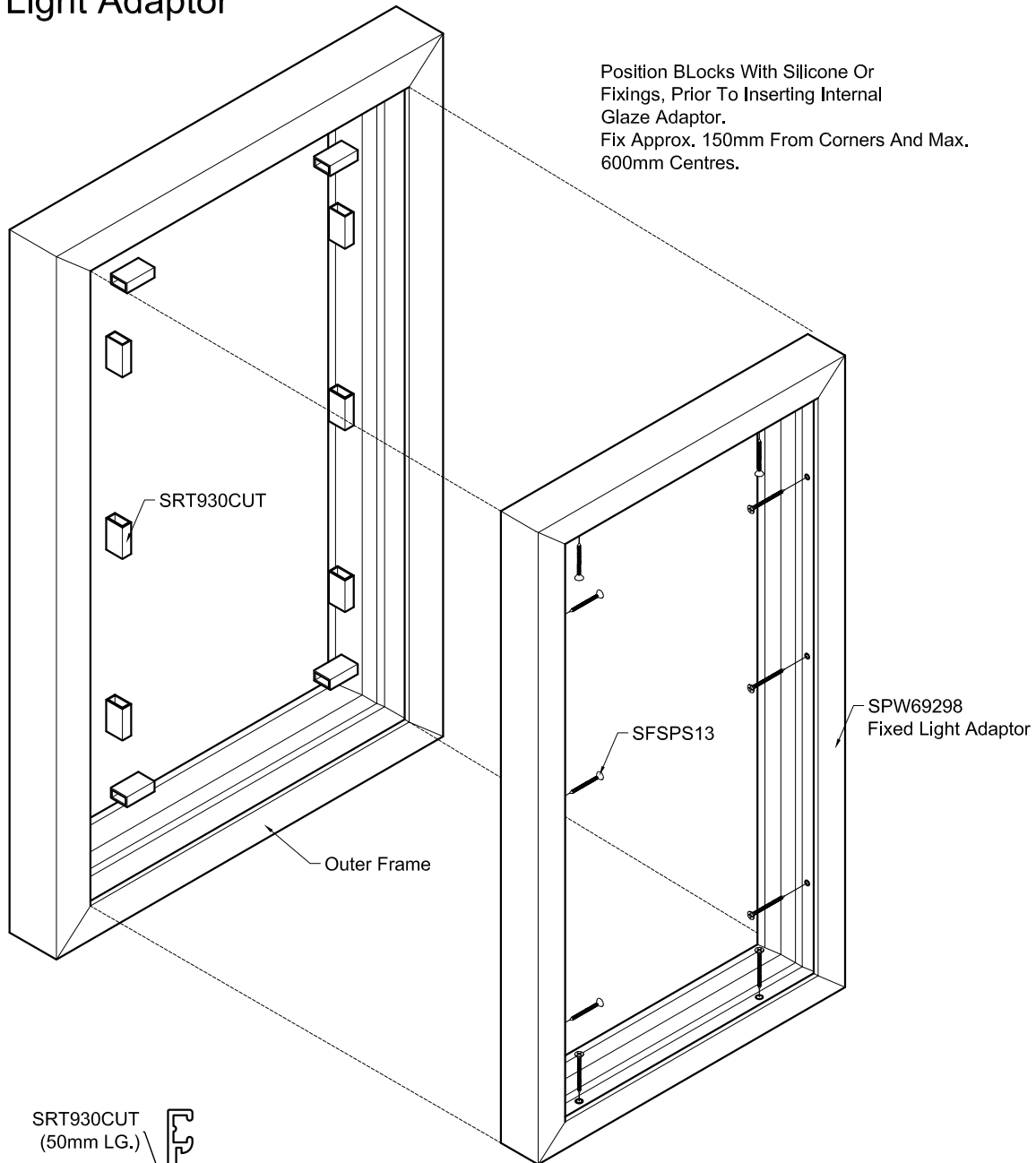
FOR ENHANCED THERMAL PERFORMANCE	
SECTION	INSERT
SPW63512	EPS003
SPW63231	EPS003
SPW69298	EPS004
SPW68998	EPS004
SPW395612	EPS008
SPW3926001	EPS008

# SPW600e Overswing

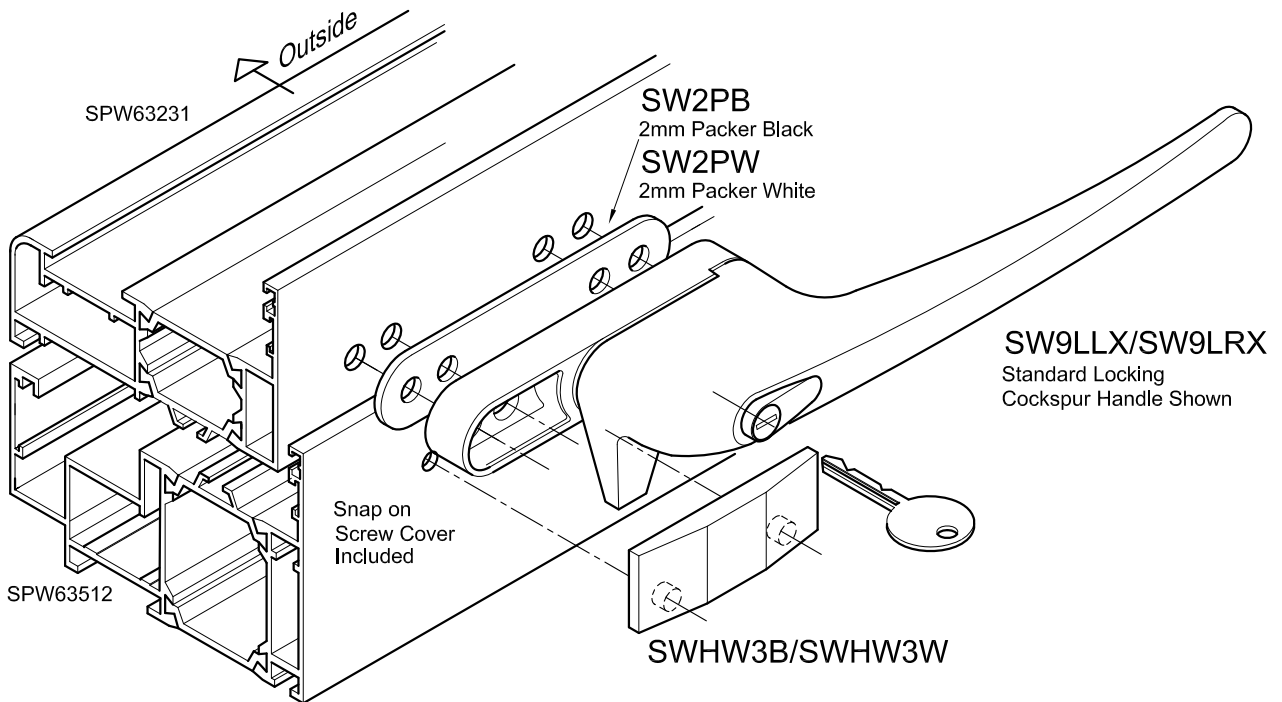
## Fixed Light Adaptor

SPW600e.E.3104

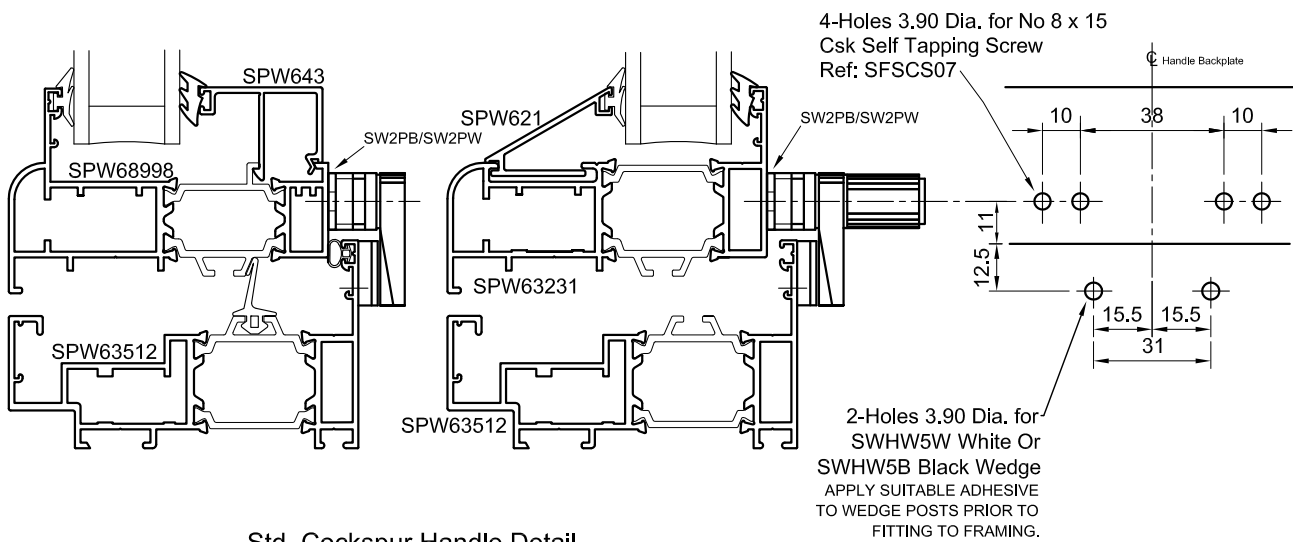
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# SPW600e Overswing Cockspur Handle and Wedge Preparation



Single Handle - Windows up to 900mm  
Two Handles - Windows 900mm and above



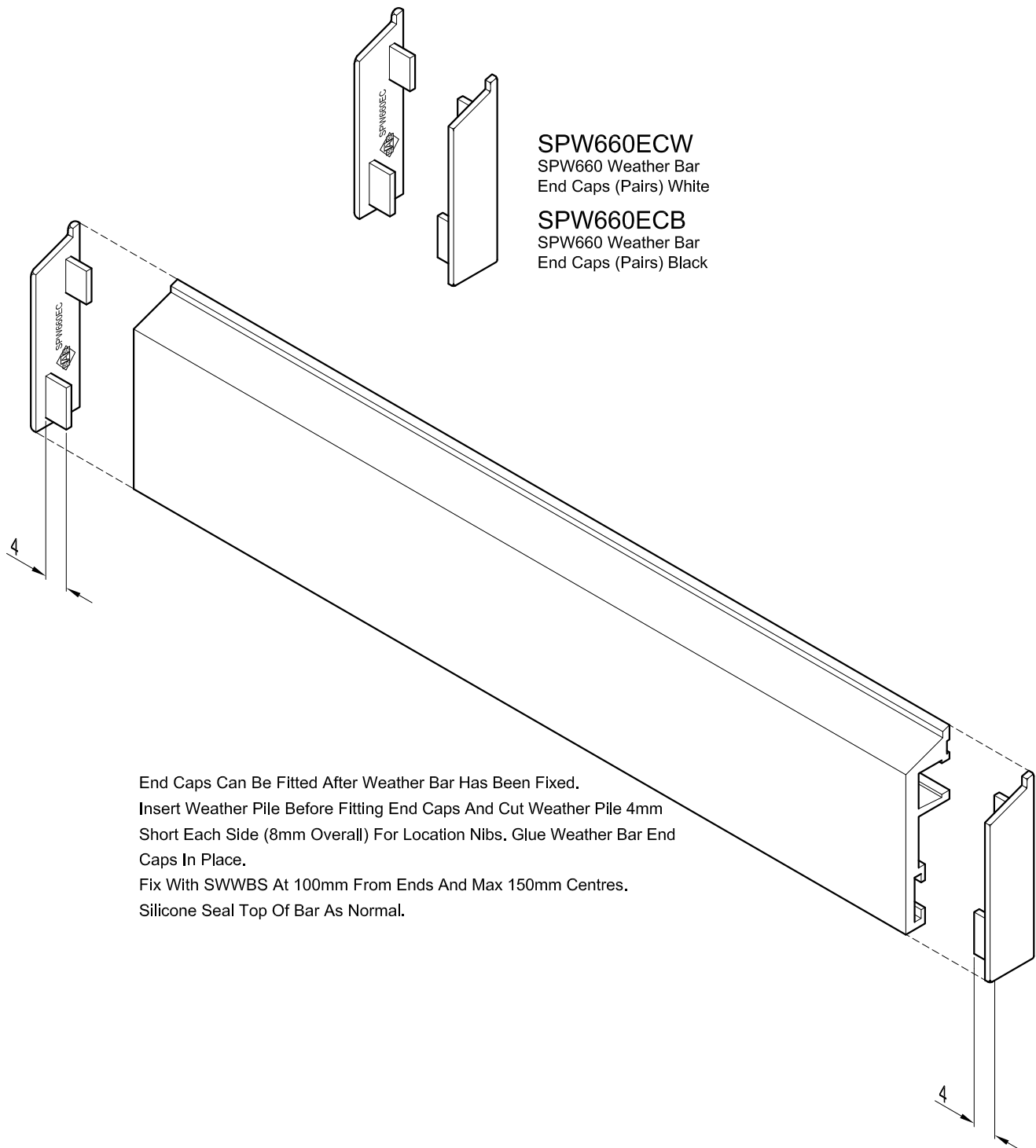
Std. Cockspur Handle Detail

# SPW600e Overswing

## SPW660 Weather Bar End Caps

SPW600e.E.3106

04.12



**SPW660ECW**  
SPW660 Weather Bar  
End Caps (Pairs) White

**SPW660ECB**  
SPW660 Weather Bar  
End Caps (Pairs) Black

End Caps Can Be Fitted After Weather Bar Has Been Fixed.

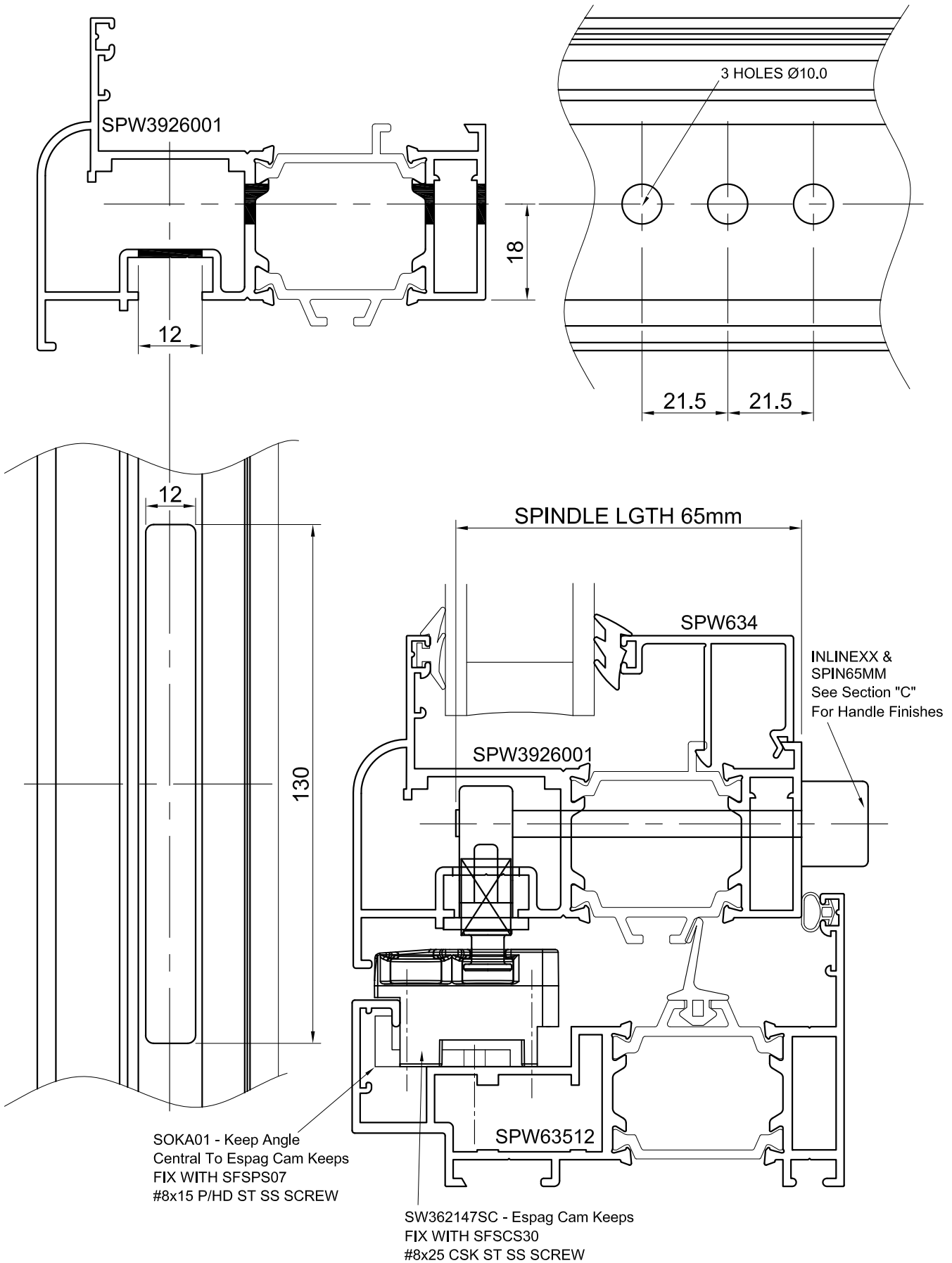
Insert Weather Pile Before Fitting End Caps And Cut Weather Pile 4mm Short Each Side (8mm Overall) For Location Nibs. Glue Weather Bar End Caps In Place.

Fix With SWWBS At 100mm From Ends And Max 150mm Centres.  
Silicone Seal Top Of Bar As Normal.

# SPW600e.E.3107

04.12

# SPW600e Overswing Espagnolette & Handle Preparation

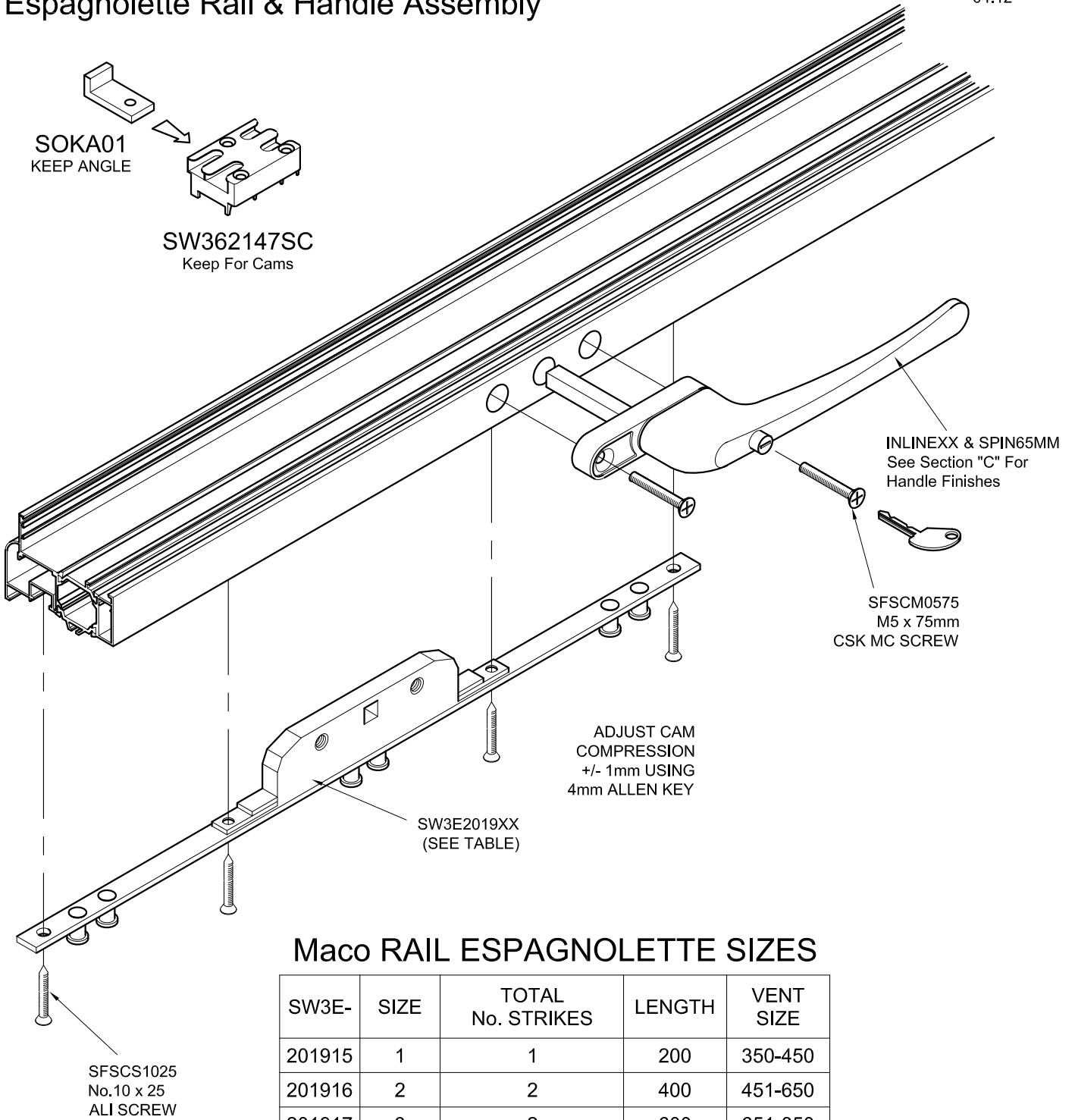


# SPW600e Overswing

## Espagnolette Rail & Handle Assembly

SPW600e.E.3108

04.12



### Maco RAIL ESPAGNOLETTE SIZES

SW3E-	SIZE	TOTAL No. STRIKES	LENGTH	VENT SIZE
201915	1	1	200	350-450
201916	2	2	400	451-650
201917	3	2	600	651-850
201918	4	3	800	851-1050
201919	5	3	1000	1051-1250
201920	6	3	1200	1251-1500

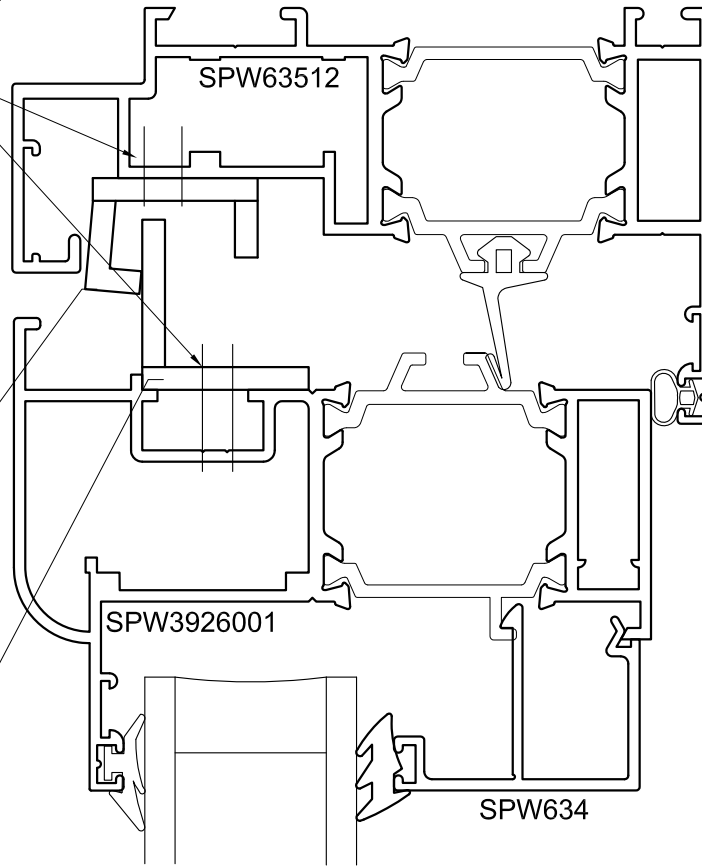
# SPW600e.E.3109

04.12

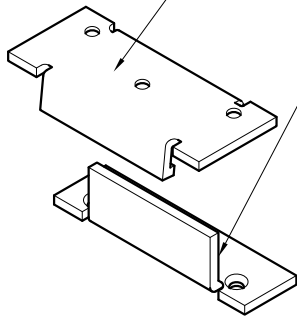
# SPW600e Overswing

## Hinge Security Bracket & Locking Wedge - BS7950

SPW38223767 - Security Bracket  
Fix With SFSCS1025  
#10x25 Csk SS ST Screws

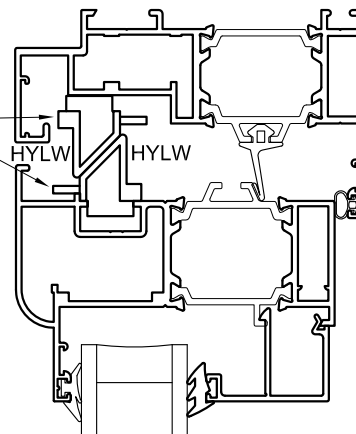


**SPW38223767**  
Security Bracket



Fit 3767 Brackets On Top Of Vent Frame  
As Close To Corners As Possible.  
Align And Fix 3822 Brackets In Head Of Outerframe.  
BRACKETS ARE ONLY NECESSARY FOR BS7950 SECURITY  
SPECIFICATIONS ONLY

Fit At Centre Of Head Only  
HYLW Locking Wedges  
Fix With SFSCS1025  
#10x25 Csk SS ST Screws



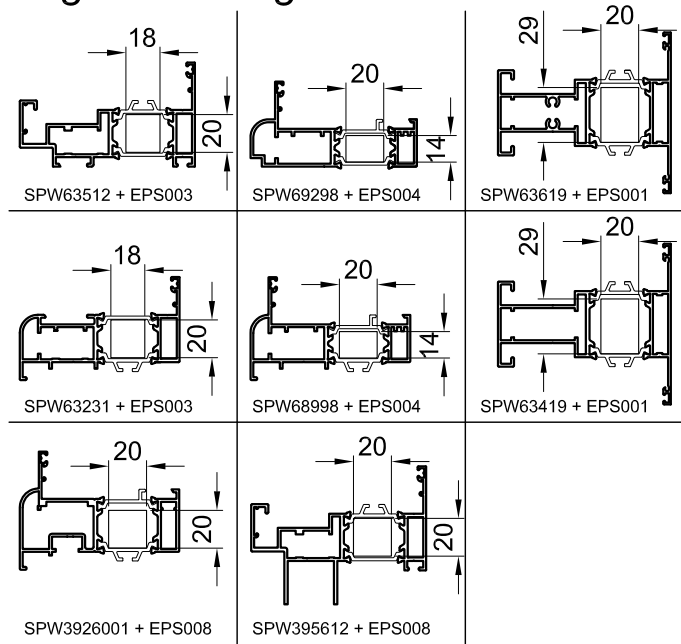
HYLW ARE NECESSARY TO MEET BS7950 SECURITY  
TEST SPECIFICATIONS ONLY

# SPW600e Overswing

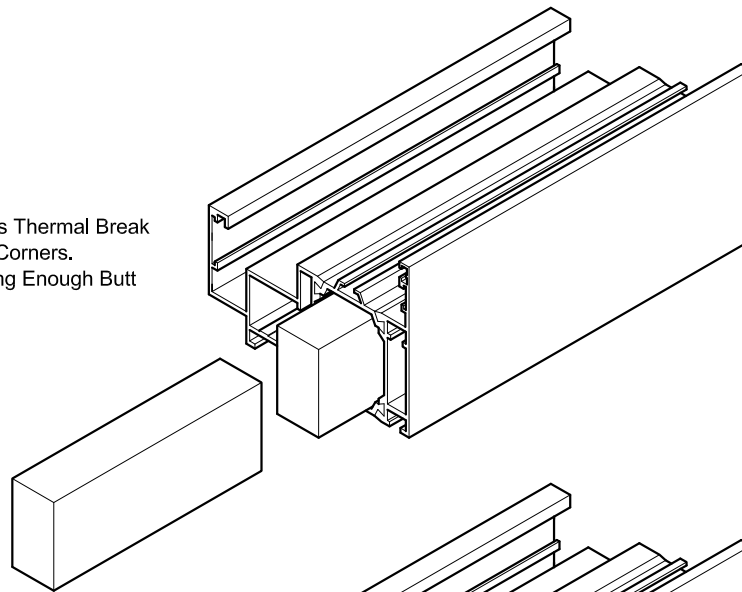
## SPW600e - Selecting & Inserting Foam

SPW600e.E.3110

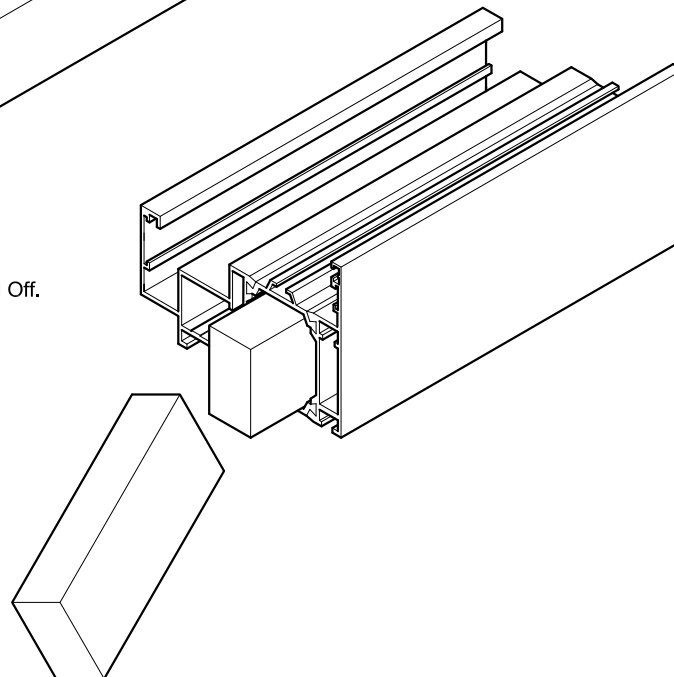
04.12



Push Foam Into Sections Thermal Break Cavity Before Crimping Corners.  
If Foam Section Isn't Long Enough Butt Up With Same Insert.



If Section Is too Long Snap End Off.



## TOP TURN G2475 MK III

## TOP TURN SPECIFICATION CHART

CODE & MODULE	SASH HEIGHT (DIMENSION 'A')	HINGE LENGTH (DIMENSION 'B')	HINGE PIVOT CTR (DIMENSION 'C')	GLIDER ARM ANGLE (MEASURED IN °)	BROWN HINGE REF NUMBER
SGO-M4	289 - 338	318	143	30.3	24308100
SGO-M4.5	339 - 388	368	168	28.0	24308101
SGO-M5	389 - 438	418	193	26.3	24308102
SGO-M5.5	439 - 488	468	218	24.8	24308103
SGO-M6	489 - 538	518	243	23.5	24308104
SGO-M6.5	539 - 588	568	268	22.4	24308105
SGO-M7	589 - 638	618	293	21.5	24308106
SGO-M7.5	639 - 688	668	318	20.7	24308107
SGO-M8	689 - 738	718	339	23.2	24308108
SGO-M8.5	739 - 788	768	364	22.5	24308109
SGO-M9	789 - 838	818	389	21.8	24308110
SGO-M9.5	839 - 888	868	414	21.1	24308111
SGO-M10	889 - 938	918	439	20.5	24308112
SGO-M10.5	939 - 988	968	464	20.0	24308113
SGO-M11	989 - 1038	1018	487	20.8	24308114
SGO-M11.5	1039 - 1088	1068	512	20.3	24308115
SGO-M12	1089 - 1138	1118	537	19.8	24308116
SGO-M12.5	1139 - 1188	1168	562	19.4	24308117
SGO-M13	1189 - 1238	1218	587	19.0	24308118
SGO-M13.5	1239 - 1288	1268	602	23.4	24308119
SGO-M14	1289 - 1338	1318	627	23.0	24308120
SGO-M14.5	1339 - 1388	1368	652	22.5	24308121
SGO-M15	1389 - 1438	1418	677	22.1	24308122
SGO-M15.5	1439 - 1488	1468	702	21.8	24308123
SGO-M16	1489 - 1538	1518	727	21.4	24308124

Please note - due to tolerance variations between frame/sash and hinge, the centre-pivot hole dimension may vary, and adjustment can be obtained by the slot in the channel.

Please note - M4 to M5.5 hinges have no restrictor

# SPW600e Overswing

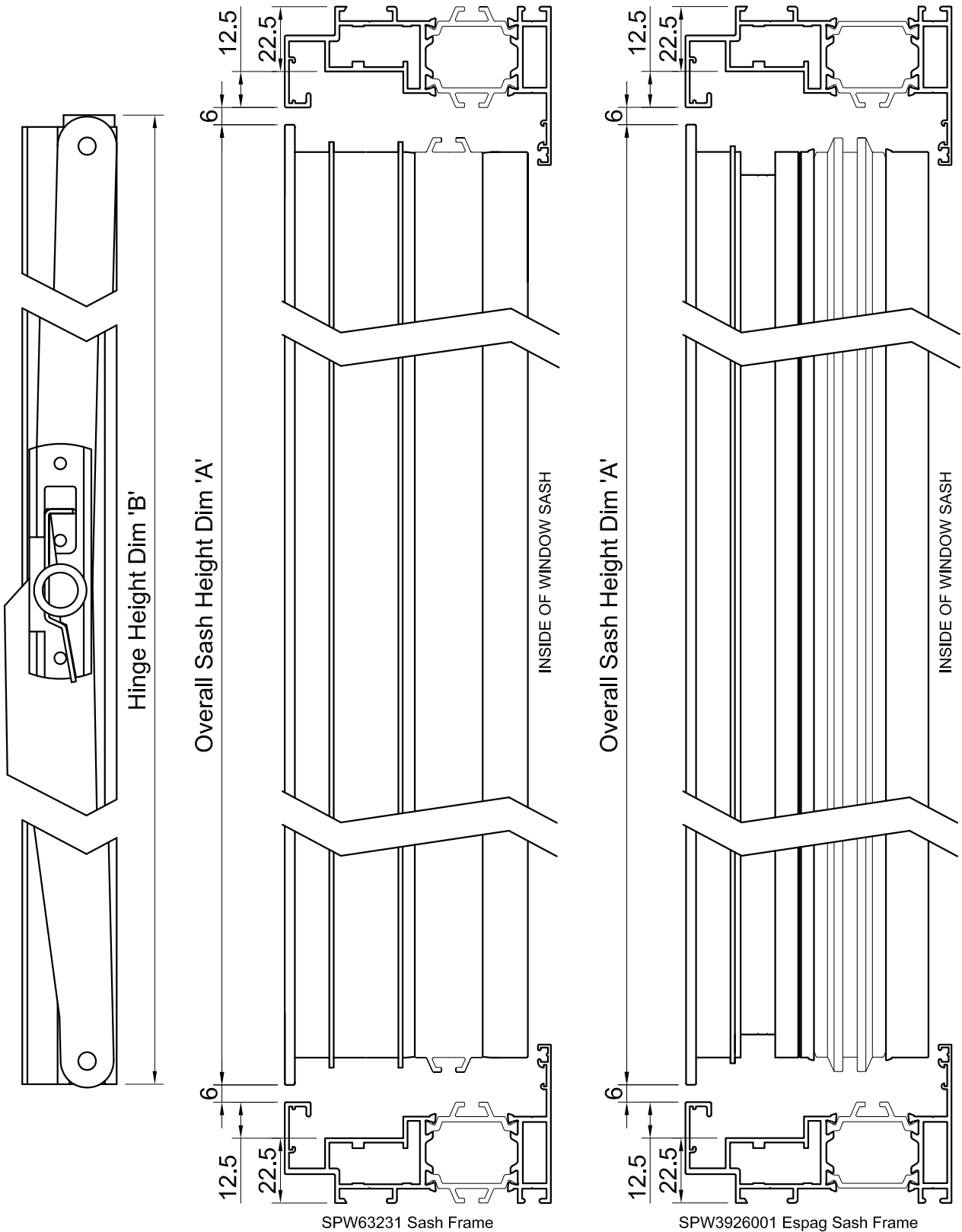
Assembly - Grorud

SPW600e.E.3202

04.12

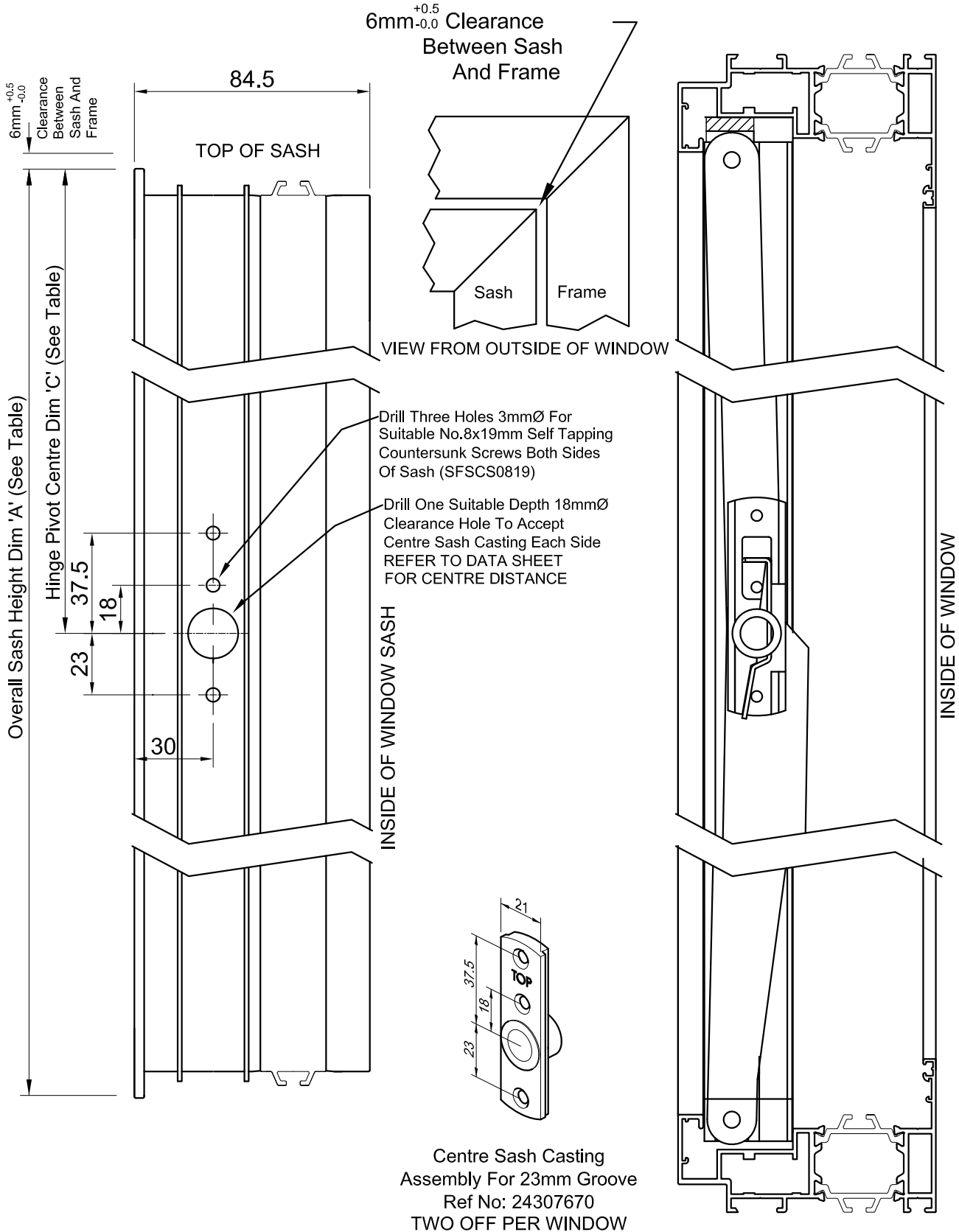
## TOP TURN G2475 MK III

MEASURE SASH AND CHOOSE  
HINGE FROM CHART OVERLEAF



## Sash Prep For Centre Sash Casting - Grorud TOP TURN G2475 MK III

### SASH PREPARATION FOR CENTER SASH CASTING



# SPW600e Overswing

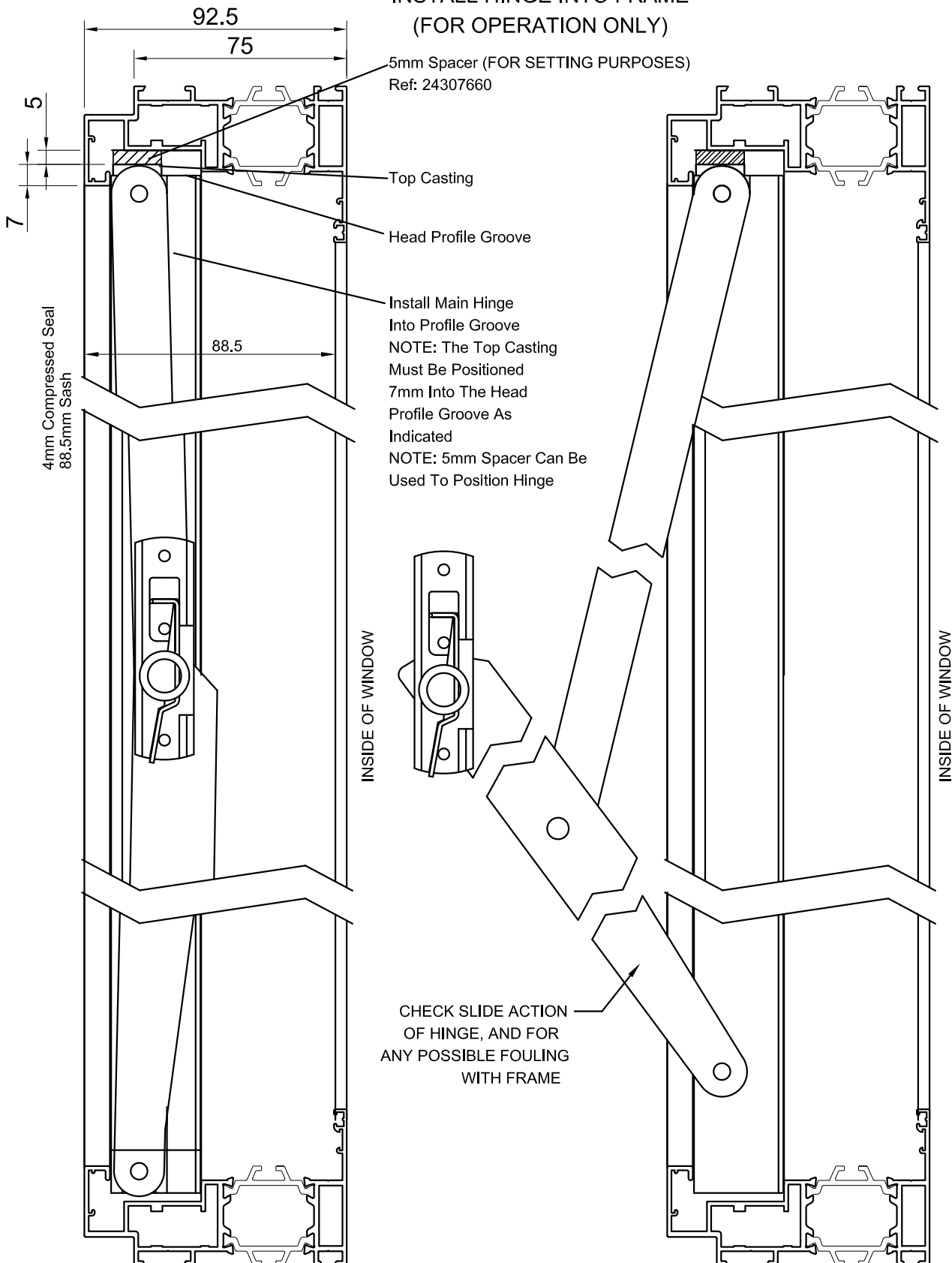
SPW600e.E.3204

Assembly - Hinge Installation - Grorud

04.12

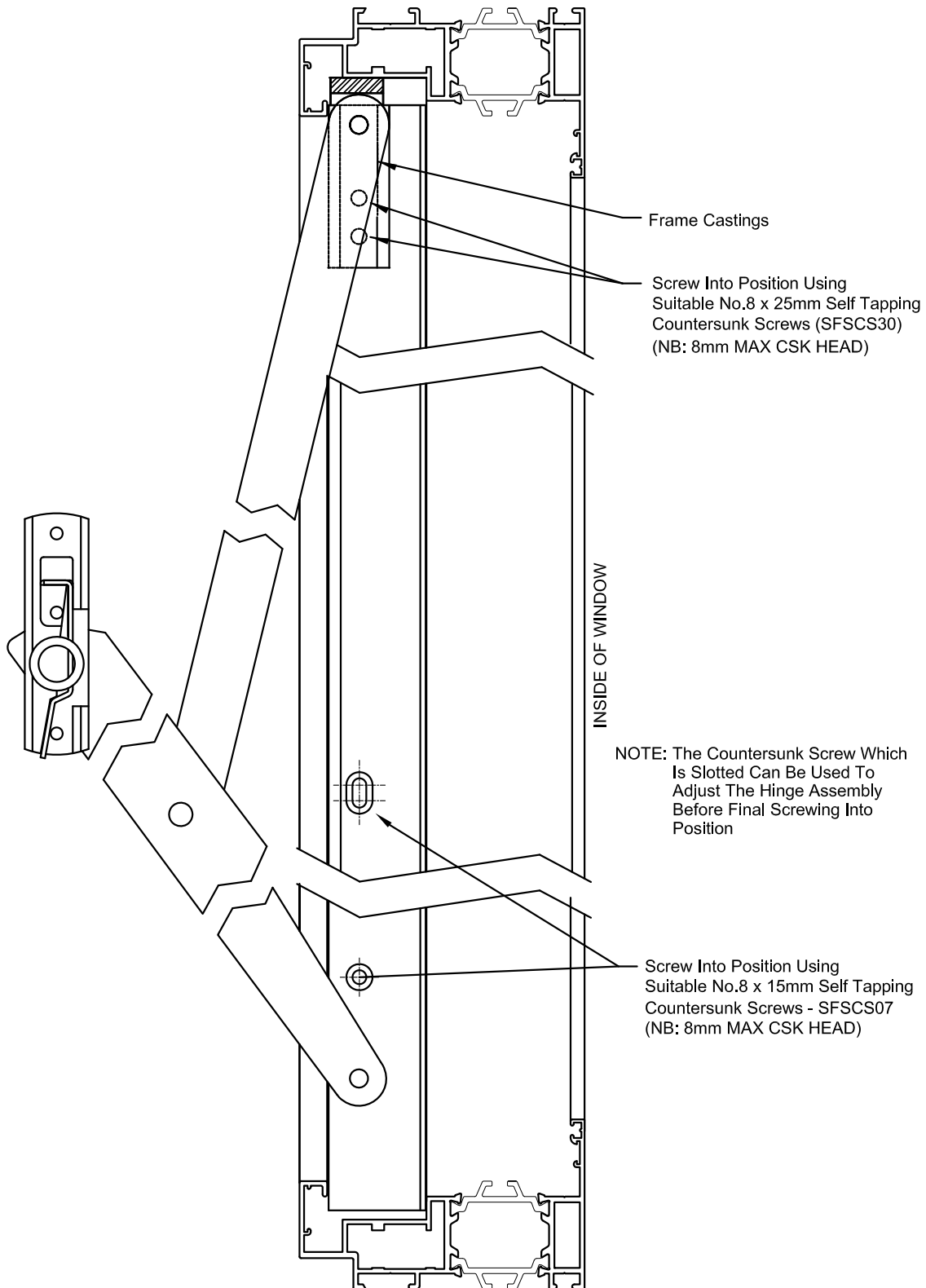
## TOP TURN G2475 MK III

INSTALL HINGE INTO FRAME  
(FOR OPERATION ONLY)



### TOP TURN G2475 MK III

#### SCREW HINGE INTO POSITION

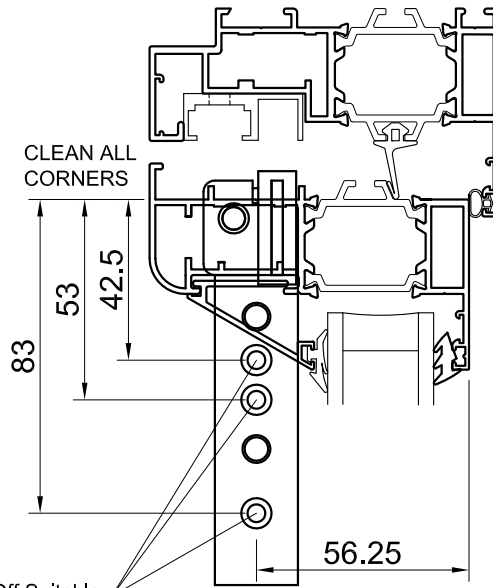
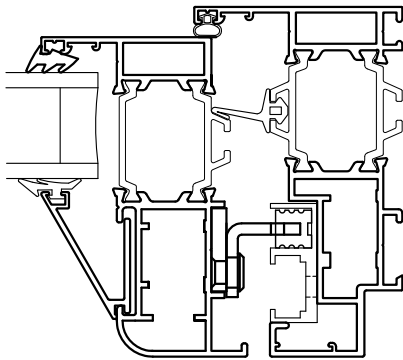


# SPW600e Overswing

SPW600e.E.3206

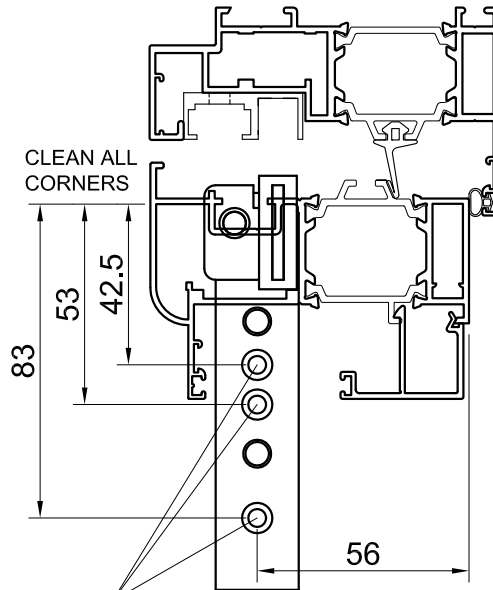
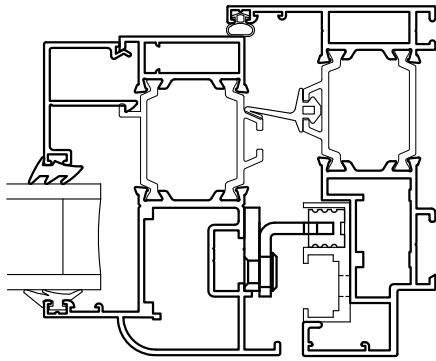
## Assembly - Top Bracket Positioning - Grorud

04.12



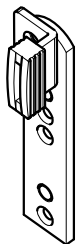
Fix Using 3 Off Suitable  
#8x19Lg Self Tapping  
Countersunk Screws  
(SFSCS0819)  
(NB: 8mm MAX CSK HEAD)

TOP BRACKET TYPE 8R  
STANDARD PART 24301420/21



Fix Using 3 Off Suitable  
#8x19Lg Self Tapping  
Countersunk Screws  
(SFSCS0819)  
(NB: 8mm MAX CSK HEAD)

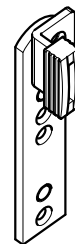
TOP BRACKET TYPE 8R  
STANDARD PART 24301420/21



L/H  
REF: 24301555

TOP SASH BRACKET ASSEMBLY, TYPE 9BXG

NOTE: THIS ITEM IS HANDED  
LEFT AND RIGHT



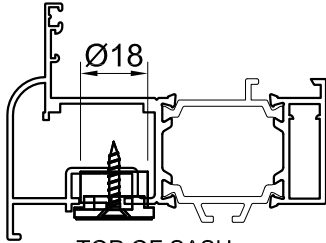
R/H  
REF: 24301556

# SPW600e Overswing

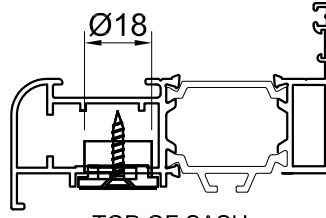
Assembly - Centre Sash Casting - Grorud

## TOP TURN G2475 MK III

INSTALL CENTRE SASH CASTING

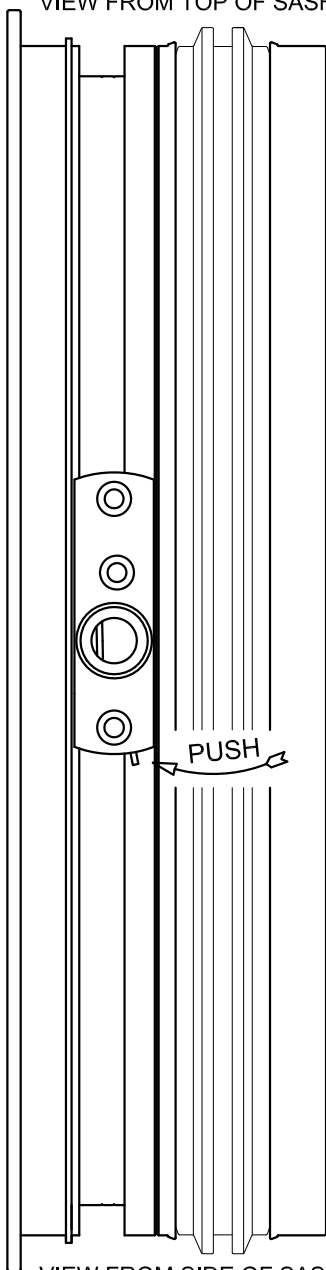


TOP OF SASH



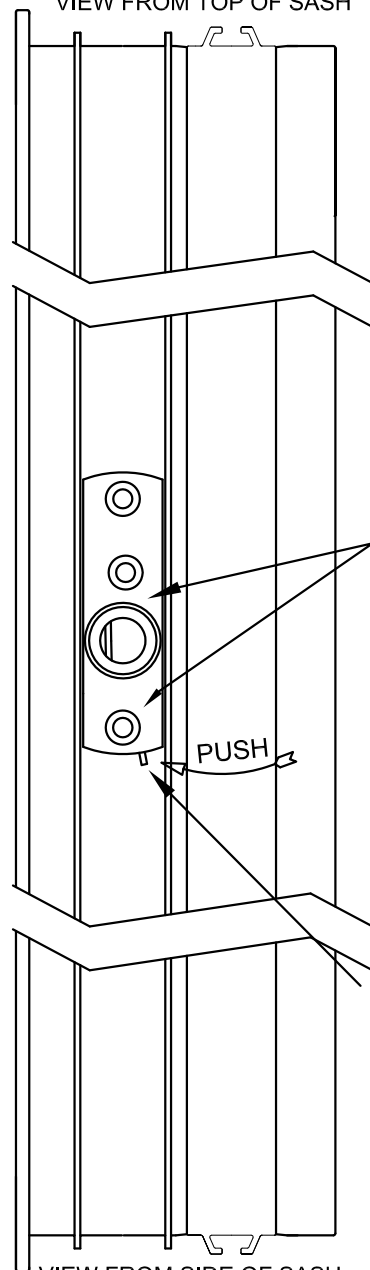
TOP OF SASH

VIEW FROM TOP OF SASH



VIEW FROM SIDE OF SASH

VIEW FROM TOP OF SASH



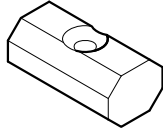
VIEW FROM SIDE OF SASH

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## TOP TURN G2475 MK III

### OPTIONAL EXTRAS

**Arm Stopper**



Ref.:24300099

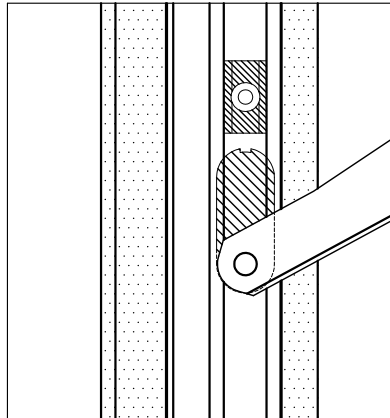
See Technical  
Bulletin T0009

The "optional" but recommended arm stopper is supplied to prevent damage to the sash in the event of misuse or forcing the sash away from the frame. It should be fitted to suit on site requirements.

The sash must be rotated until horizontal, then the stopper is fitted into the channel. Screw into position using suitable No.8 x 20mm self-tapping countersunk screws.

(NB: 8mm max csk head)

In the right-hand channel the stopper is located approx 5mm above the top of the nylon slider. In the left-hand channel the stopper is located approx 5mm above the top of the lock button.



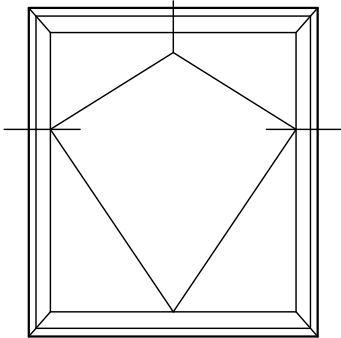
# SPW600e Overswing

SPW600e.E.3210

## Assembly - Anti 'Blow-Back' Compression Blocks - Grorud

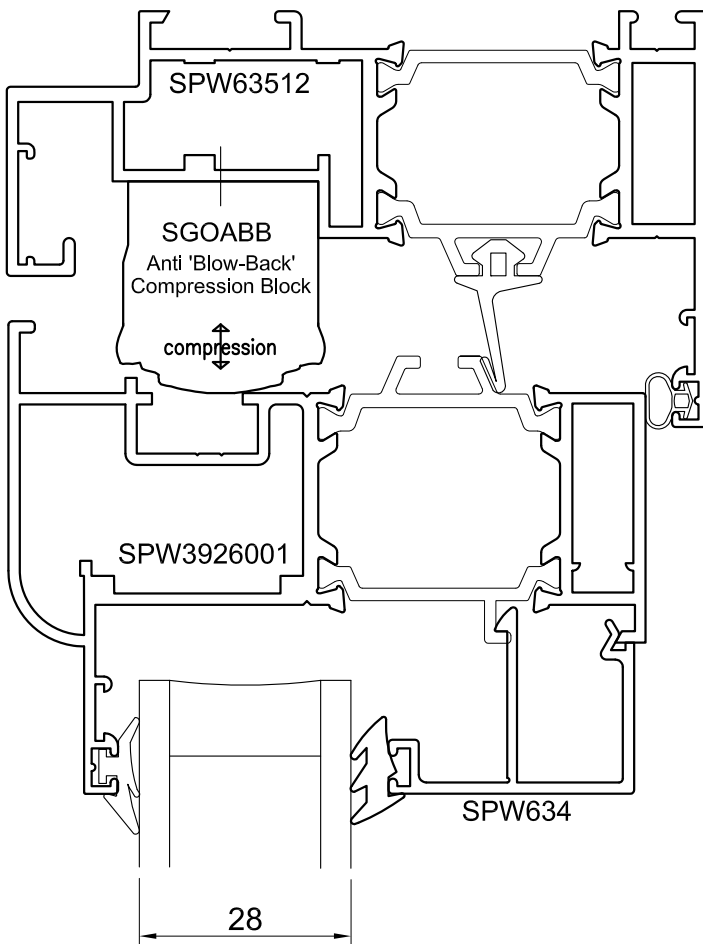
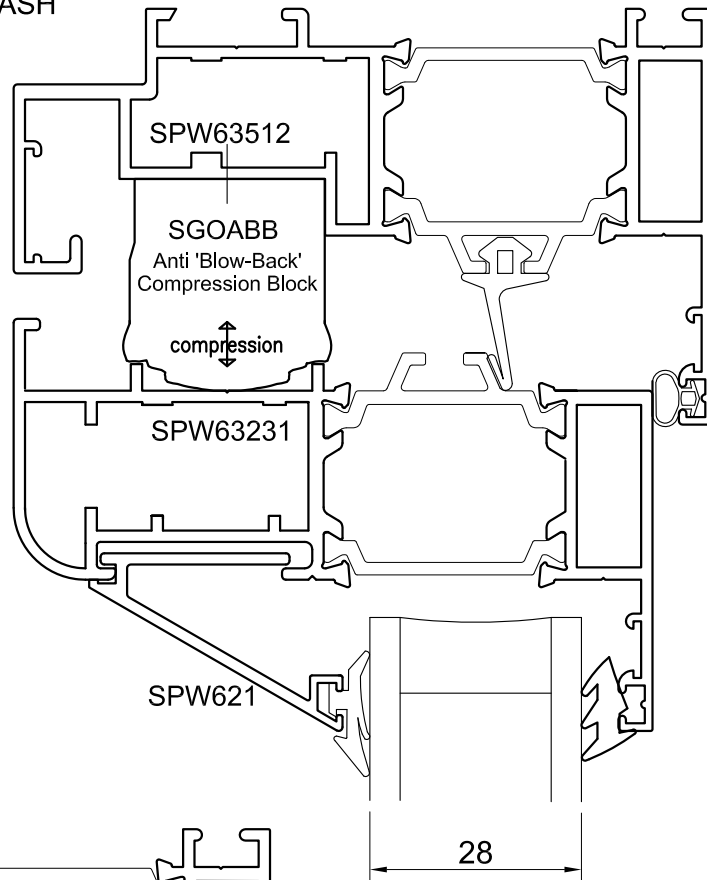
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INSTALLATION INSTRUCTIONS  
GRORUD G2475 MK III TOP TURN HINGE ASSEMBLY  
TO SENIOR ALUMINIUM FRAME/SASH



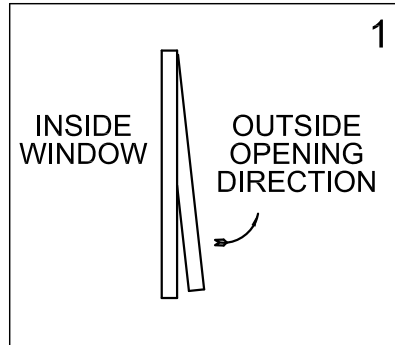
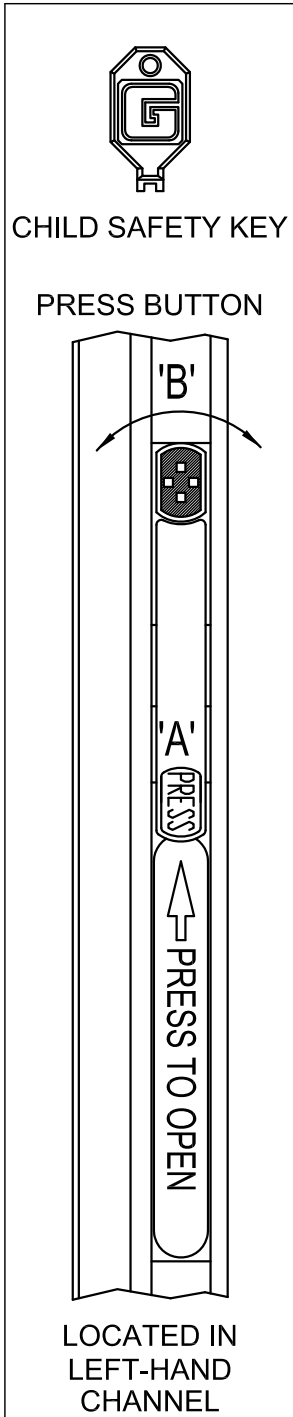
Elevation

Cut SGOABB At 32mm Lg.  
Fix With SFSCS30 St.St  
Self Tapping Screw - 2no



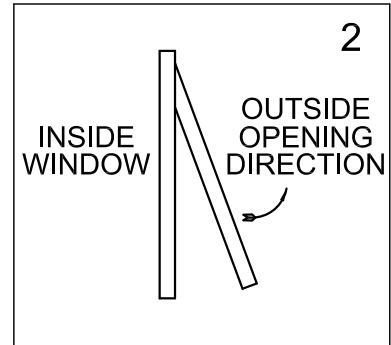
## TOP TURN G2475 MK III

### OPERATING INSTRUCTIONS



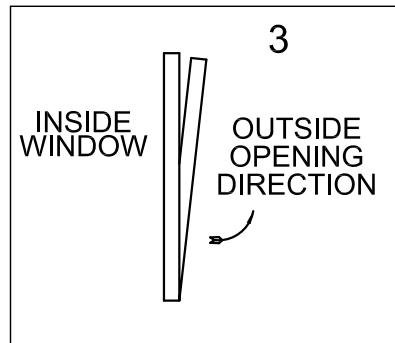
#### POSITION 1 SAFETY POSITION

Open window to first restrictor position and engage child safety button 'B' by inserting key and rotating 90°.



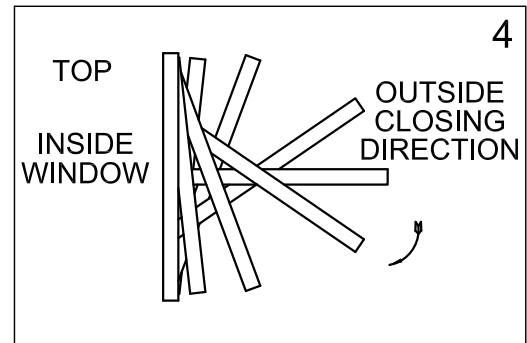
#### POSITION 2 OUTER VENTILATION

Disengage button 'B' and press button 'A' whilst pushing window to outer ventilation and re-engage button 'B' to activate anti-blow back and child safety.



#### POSITION 3 INNER WASH

Disengage button 'B' then press button 'A' and push window open until it engages into the inner wash position, then re-engage button 'B' for anti-blow back and child safety.



#### POSITION 4 CLOSING WINDOW

Disengage button 'B' then press button 'A' and push window from the top to reverse the previous actions, until closed.

### IMPORTANT

ALWAYS DISENGAGE CHILD SAFETY BUTTON 'B' BEFORE ROTATING WINDOW  
KEEP MOVING PARTS CLEAN AND LIGHTLY LUBRICATED FOR EASY OPERATION.

## TOP TURN G2475 MK III

### INSTALLATION / MAINTENANCE / LUBRICATION

#### INSTALLATION

The window should be installed square and plumb, taking care not to damage the aluminium slide tracks, when fixing to frame, thus ensuring that the nylon sliders can move up and down the channel smoothly.

Grorud recommend the use of Austenitic stainless steel fixing screws to provide enhanced corrosion resistance. Whilst screw sizes (diameter and length) are specified, we recommend that users consult with a screw specialist to determine the optimum form and type.

Great care must be taken to avoid damage to the aluminium slide tracks and sliders by contamination with building products (eg, plaster, paint, varnish, brick particles, etc.).

If the environment is particularly dirty (eg, shot-blasting, pebble dashing, acid spraying, etc.) and/or the window is used as an access for building materials then the gap between frame and sash or the guide channel MUST be protected by use of a suitable adhesive tape until all such work is complete.

The aluminium slide tracks must then be thoroughly cleaned and lightly lubricated after installation is complete; see maintenance section.

#### MAINTENANCE / LUBRICATION

The aluminium slider rails must not be painted after installation. The slide tracks should be lightly lubricated with a white neutral grease (Vaseline) as required, this could be at six to twelve month intervals, depending on local conditions (eg, temperature, usage, environment, etc.).

All pivot points in the hinge i.e. long arms and glider assembly should be kept lightly oiled to ensure long life of the components.

#### CUSTOMER CARE PACK

Grorud provide and recommend an optional Customer Care Pack for the end user. It contains two spare child safety keys and a 15g tube of lubrication.

**SASH SIZE FOR PN UNI OVERSWING GEAR**

SAS Ref.	PN Ref.	Module Size	Optimum Sash Height mm (In Bold) Range If Not Cutting Gear	F Dim mm No Cut	Max. Opening Height mm	Length Of Fitting L mm
SPN06SET	3776	6	<b>505</b> -560	238	30	524
SPN06.5SET	3790	6.5	<b>561</b> -604	264	25	580
SPN07SET	3777	7	<b>605</b> -660	288	36	624
SPN07.5SET	3791	7.5	<b>661</b> -704	312	41	680
SPN08SET	3778	8	<b>705</b> -760	338	43	724
SPN08.5SET	3792	8.5	<b>761</b> -804	364	46	780
SPN09SET	3779	9	<b>805</b> -860	388	50	824
SPN09.5SET	3793	9.5	<b>861</b> -904	412	53	880
SPN10SET	3780	10	<b>905</b> -960	438	56	924
SPN10.5SET	3794	10.5	<b>961</b> -1004	458	60	980
SPN11SET	3781	11	<b>1005</b> -1060	488	63	1024
SPN11.5SET	3795	11.5	<b>1061</b> -1104	512	66	1080
SPN12SET	3782	12	<b>1105</b> -1160	538	69	1124
SPN12.5SET	3796	12.5	<b>1161</b> -1204	564	73	1180
SPN13SET	3783	13	<b>1205</b> -1260	588	78	1224
SPN13.5SET	3797	13.5	<b>1261</b> -1304	612	80	1280
SPN14SET	3784	14	<b>1305</b> -1360	638	83	1324
SPN14.5SET	3798	14.5	<b>1361</b> -1404	664	86	1380
SPN15SET	3785	15	<b>1405</b> -1460	688	89	1424
SPN15.5SET	3799	15.5	<b>1461</b> -1504	712	92	1480
SPN16SET	3786	16	<b>1505</b>	738	96	1524

(Based on Sizes when not using Shootbolts.)

Note ) Length of fitting can be altered by cutting tracks,  
This will also affect the stated F dimension by the  
same amount as cut .Always use the closest size of fitting  
to the optimum to give best reversed position (may require cut).  
For more information on reversing see page 4b from Uni technical book .

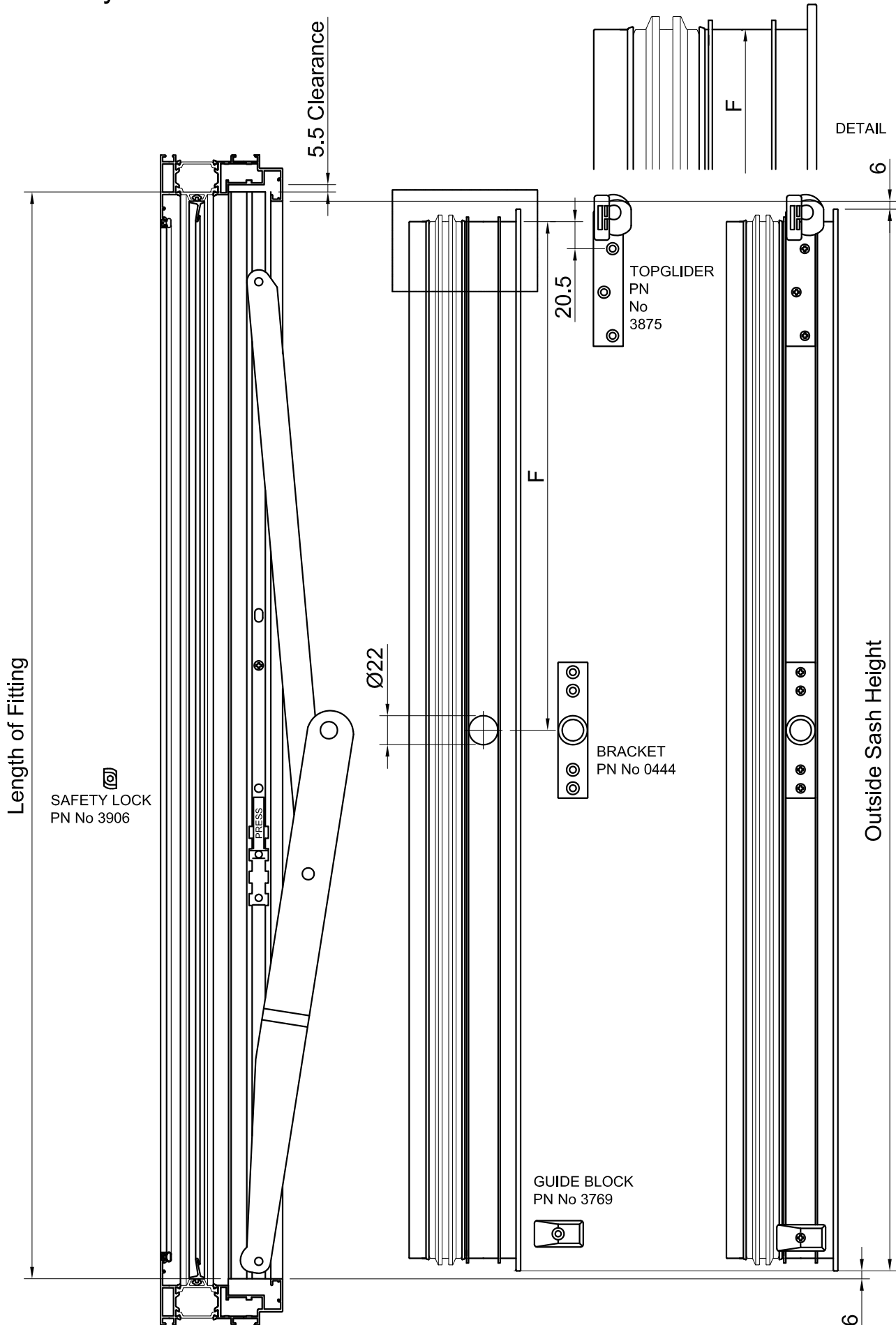
SET COMPRISES:- 2-ARMS ONLY, OTHER PARTS ARE ORDERED SEPERATE

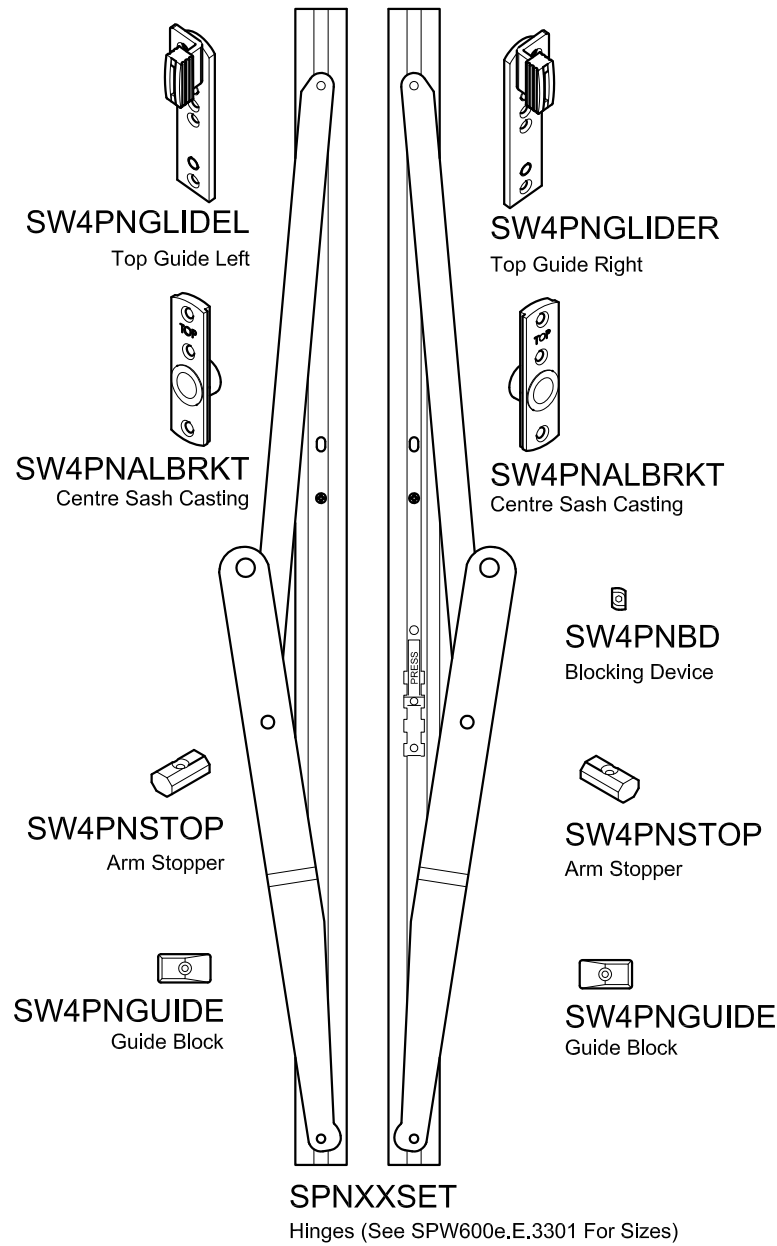
# SPW600e Overswing

Assembly - PN UNI

SPW600e.E.3302

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SAS Part No.	Qty Rqd Per Window
SPNXXSET	1 Pair
SW4PNGLIDEL SW4PNGLIDER	1 Left 1 Right
SW4PNALBRKT	1 Pair
SW4PNBD	1
SW4PNSTOP	2
SW4PNGUIDE	2

Items SPNXXSET, SW4PNGLIDEL/R, SW4PNALBRKT & SW4PNGUIDE  
Are Always Required, Other Items Are Optional/Security Extras.

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# SPW600e.F.301

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# SPW600e Overswing

## Glazing - External Bead

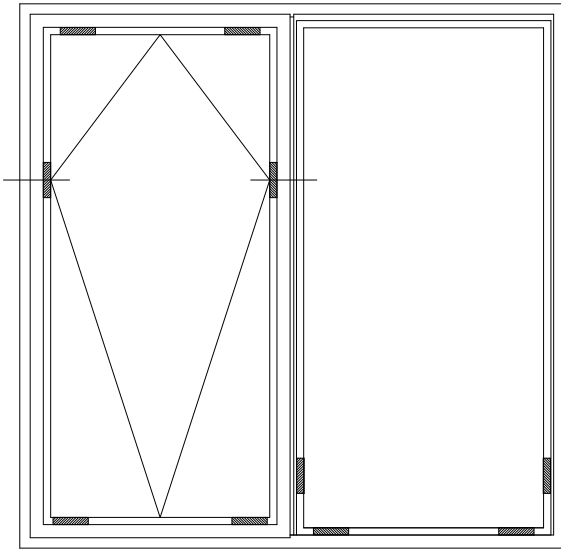


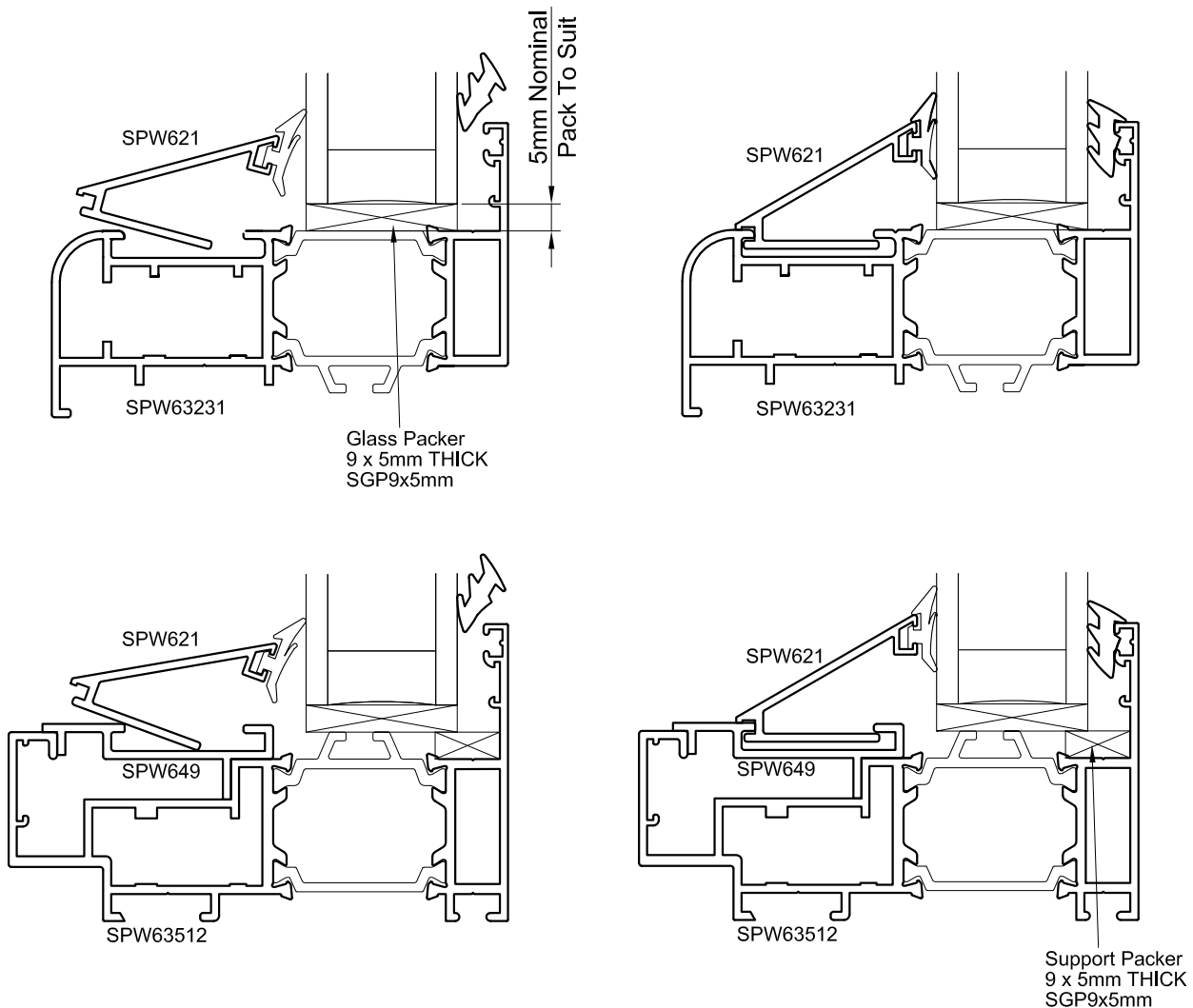
FIGURE A - CONVENTIONAL GLASS PACKING

1. CUT HORIZONTAL BEADS SQUARE AND VERTICAL BEADS TO 30° IF FOR SPW621, 25° IF FOR SPW697, 20° IF FOR SPW688.
2. FEED GLAZING GASKET SWG4 INTO BEADS OR OUTER FRAME IF INTERNAL GLAZING.
3. FIT GLASS UNITS AND PACK AS SHOWN IN FIG.A.
4. FIT GLAZING BEADS.
5. INSERT INTERNAL GLAZING WEDGE SSWG TO SECURE.

PLEASE NOTE:-  
GLAZING ADAPTOR SPW649 IS SQUARE CUT FULL WIDTH AND BUTTED BETWEEN VERTICALS. FIX WITH #8x25LG C'SK SCREWS (SPFCS30), 50mm FROM ENDS AND AT 300mm CENTRES.

See Accessories Pages SPW600e.C.302 & 303 For Available Gasket, Glass Packs and Bead Options

FIGURE B - BEAD CUTTING



# SPW600e Overswing

SPW600e.F.302

## Glazing - Internal Bead

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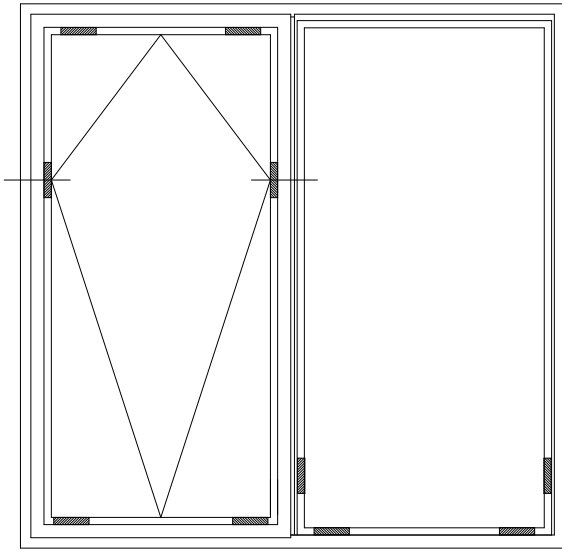


FIGURE A - CONVENTIONAL GLASS PACKING

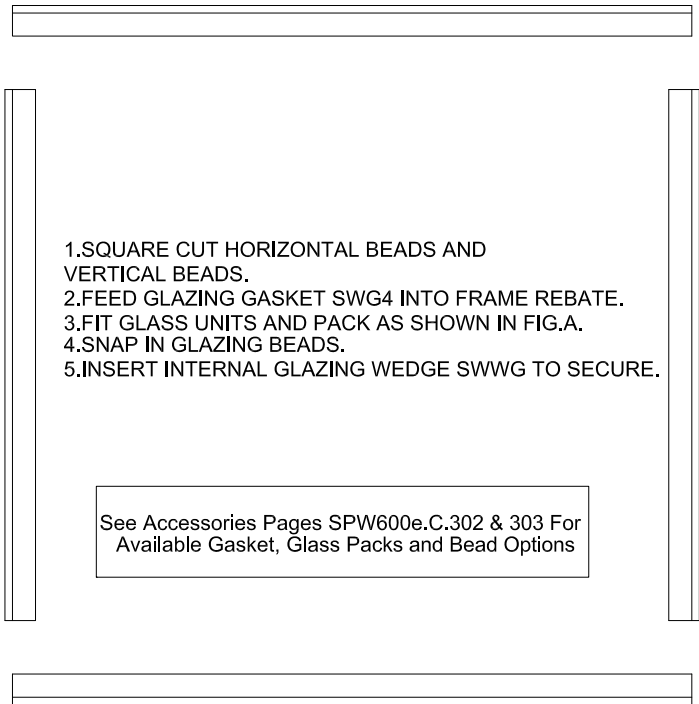
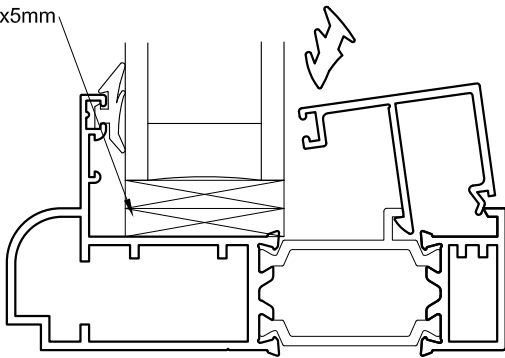
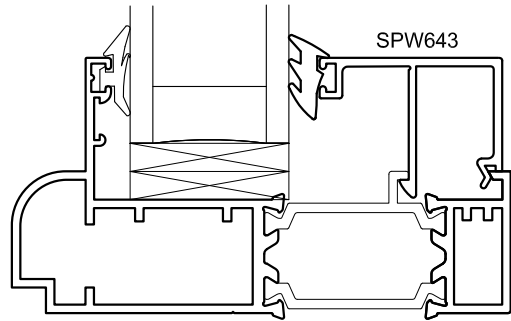


FIGURE B - BEAD CUTTING

Glass Packer  
2-SGP28x5mm

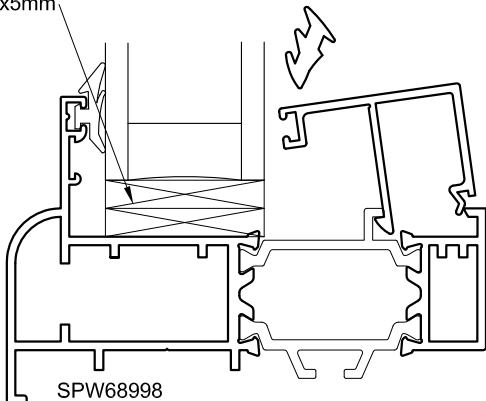


SPW69298

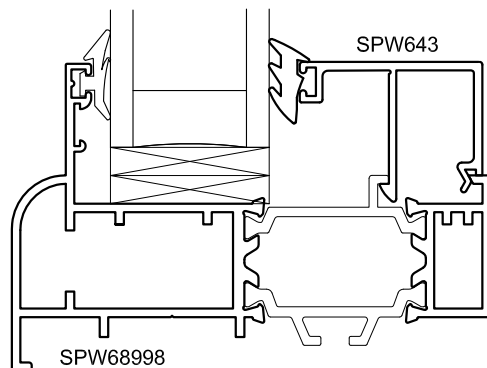


SPW69298

Glass Packer  
2-SGP28x5mm



SPW68998



SPW68998

# SPW600e Overswing Glazing - Espag Sash - Internal Bead

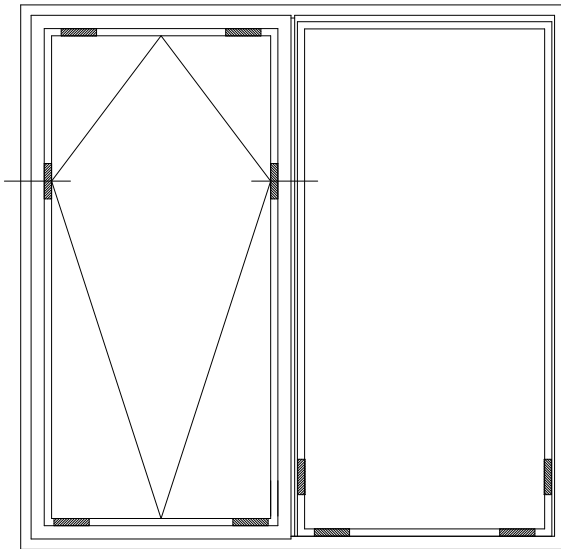


FIGURE A - CONVENTIONAL GLASS PACKING

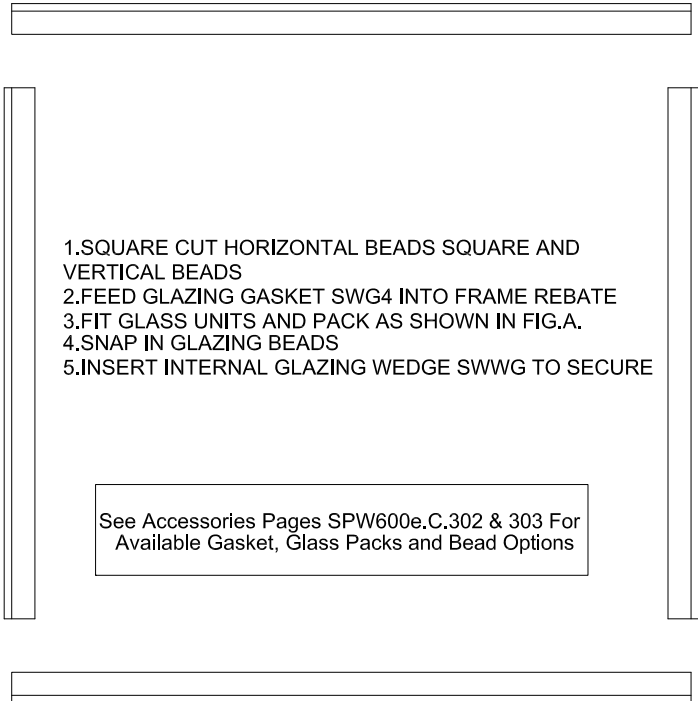
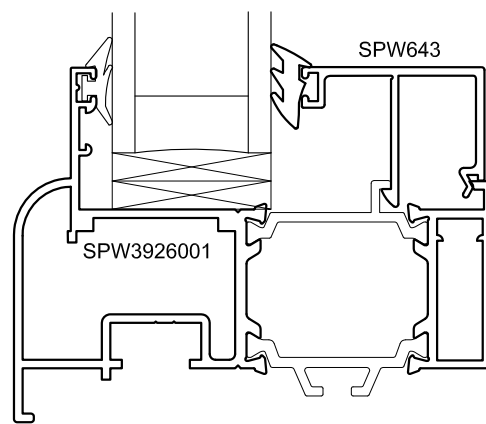
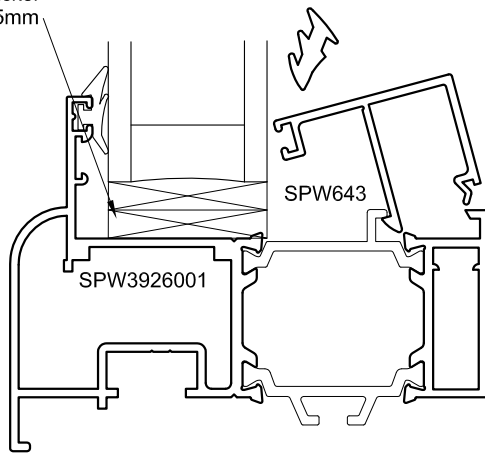


FIGURE B - BEAD CUTTING

Support Packer  
2-SGP28x5mm

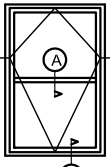


# SPW600e Overswing

## Glazing - Georgian Bars

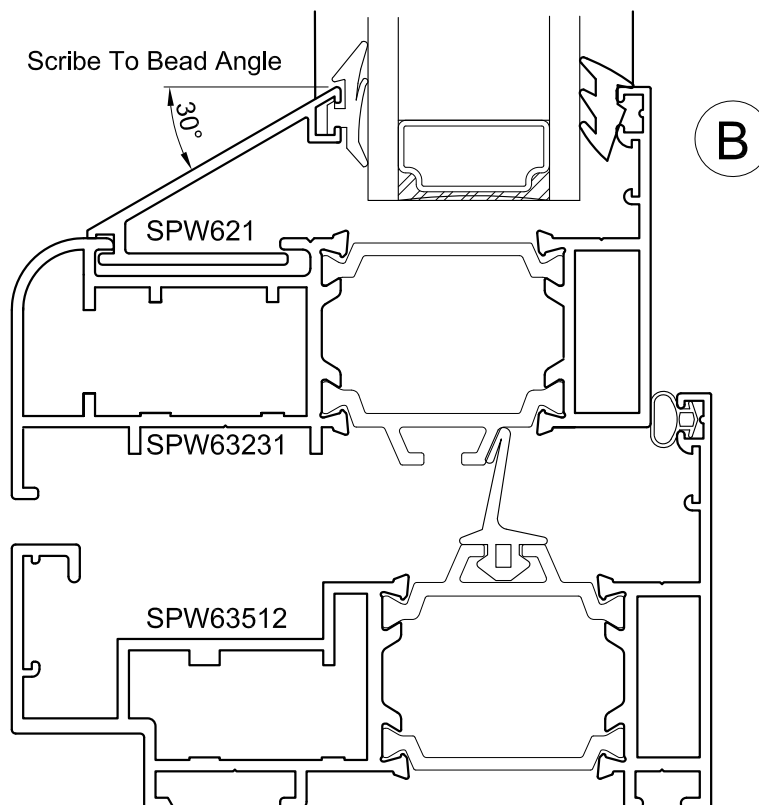
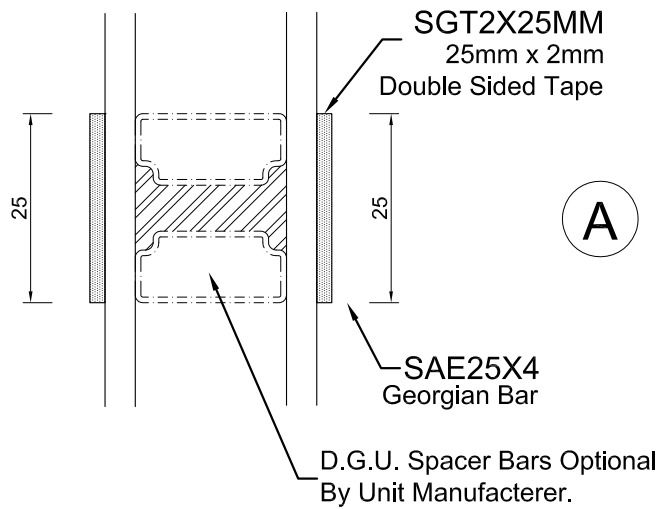
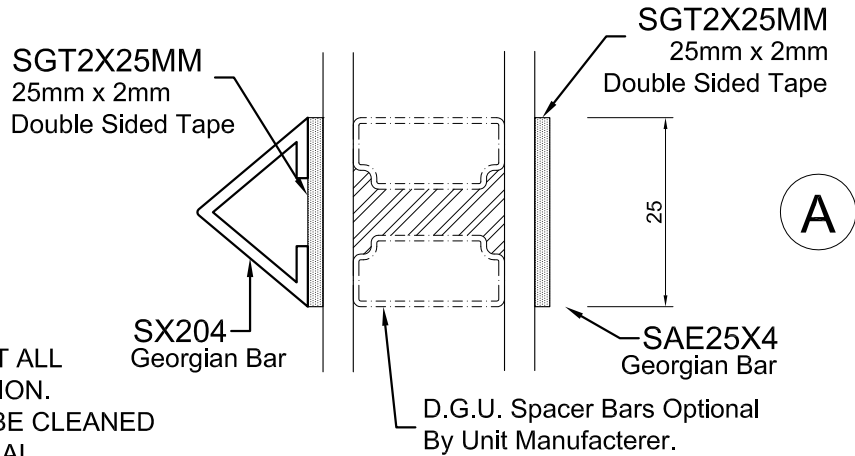
SPW600e.F.304

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Key

NOTE: LEAVE A 1MM GAP AT ALL JOINTS FOR EXPANSION. GLASS & BAR MUST BE CLEANED USING ANY INDUSTRIAL METHYLATED SPIRIT BEFORE APPLICATION. APPLY WITH A LINT FREE CLOTH. WHITE SPIRIT MUST NOT BE USED AS IT WILL AFFECT ADHESION.

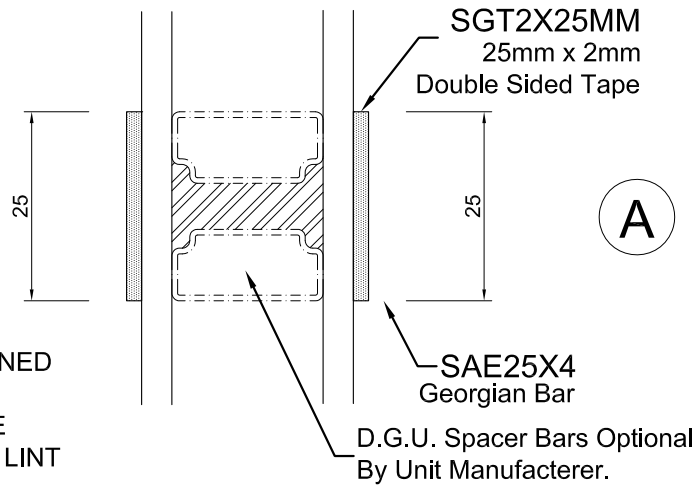
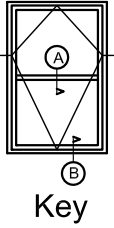


# SPW600e.F.305

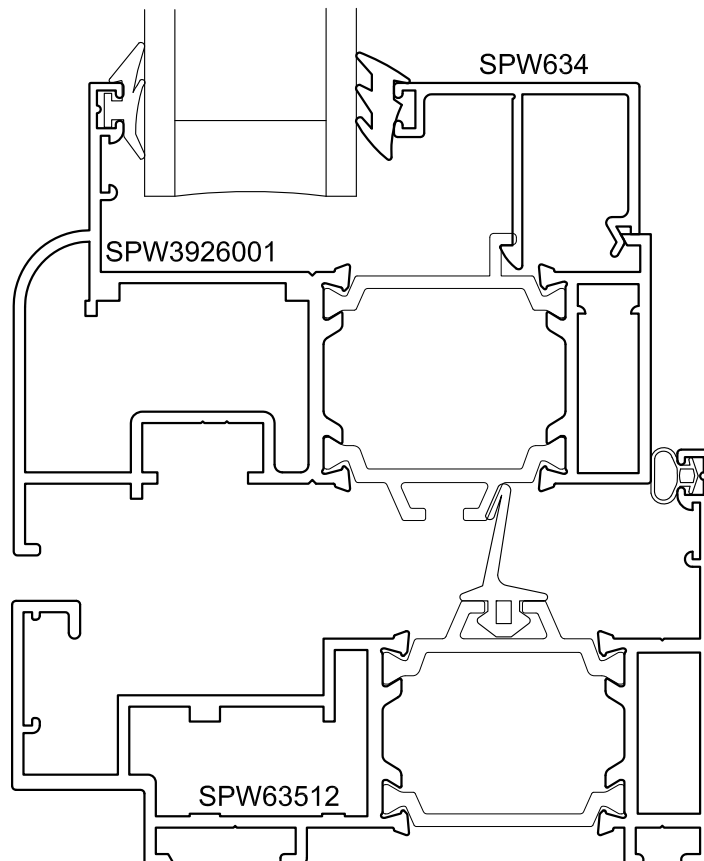
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# SPW600e Overswing

## Glazing - Georgian Bar



NOTE: LEAVE A 1MM GAP AT ALL JOINTS FOR EXPANSION. GLASS & BAR MUST BE CLEANED USING ANY INDUSTRIAL METHYLATED SPIRIT BEFORE APPLICATION. APPLY WITH A LINT FREE CLOTH. WHITE SPIRIT MUST NOT BE USED AS IT WILL AFFECT ADHESION.



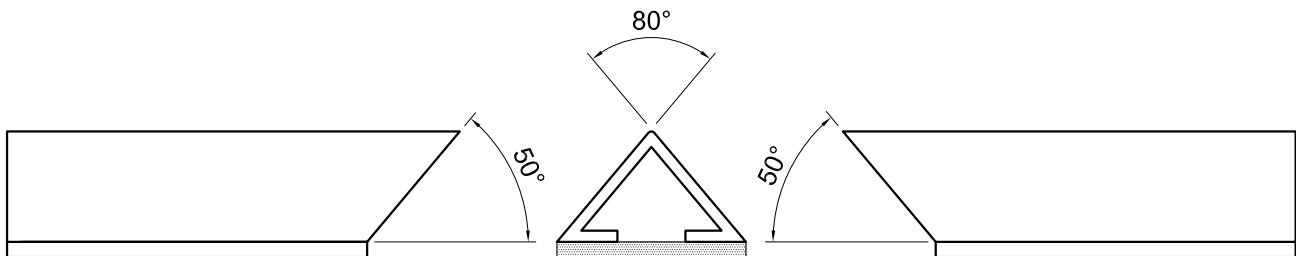
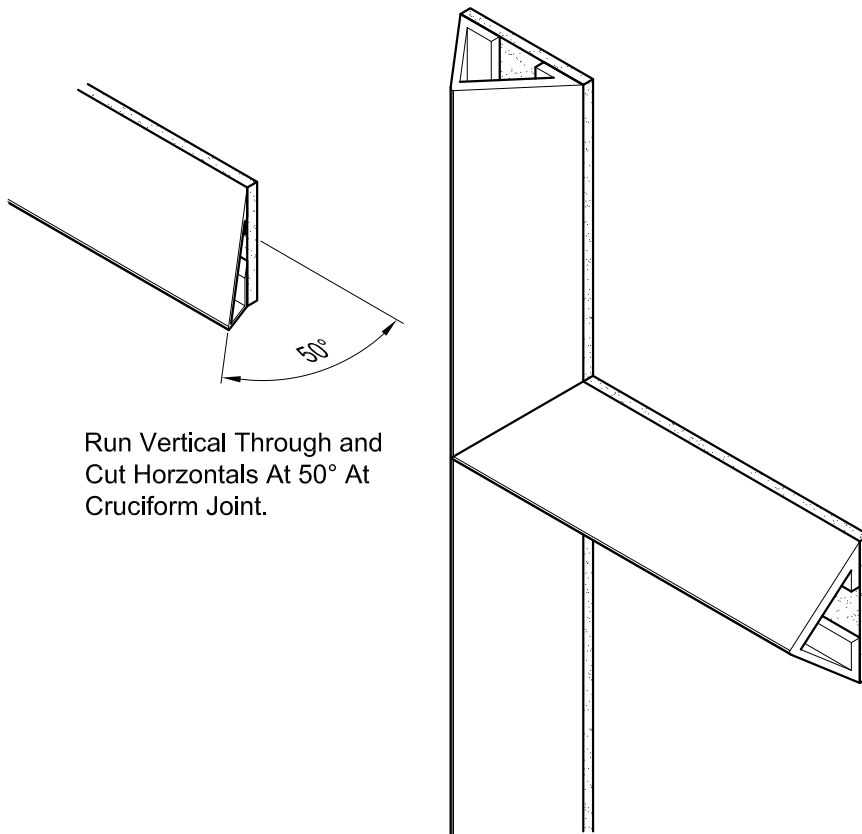
# SPW600e Overswing

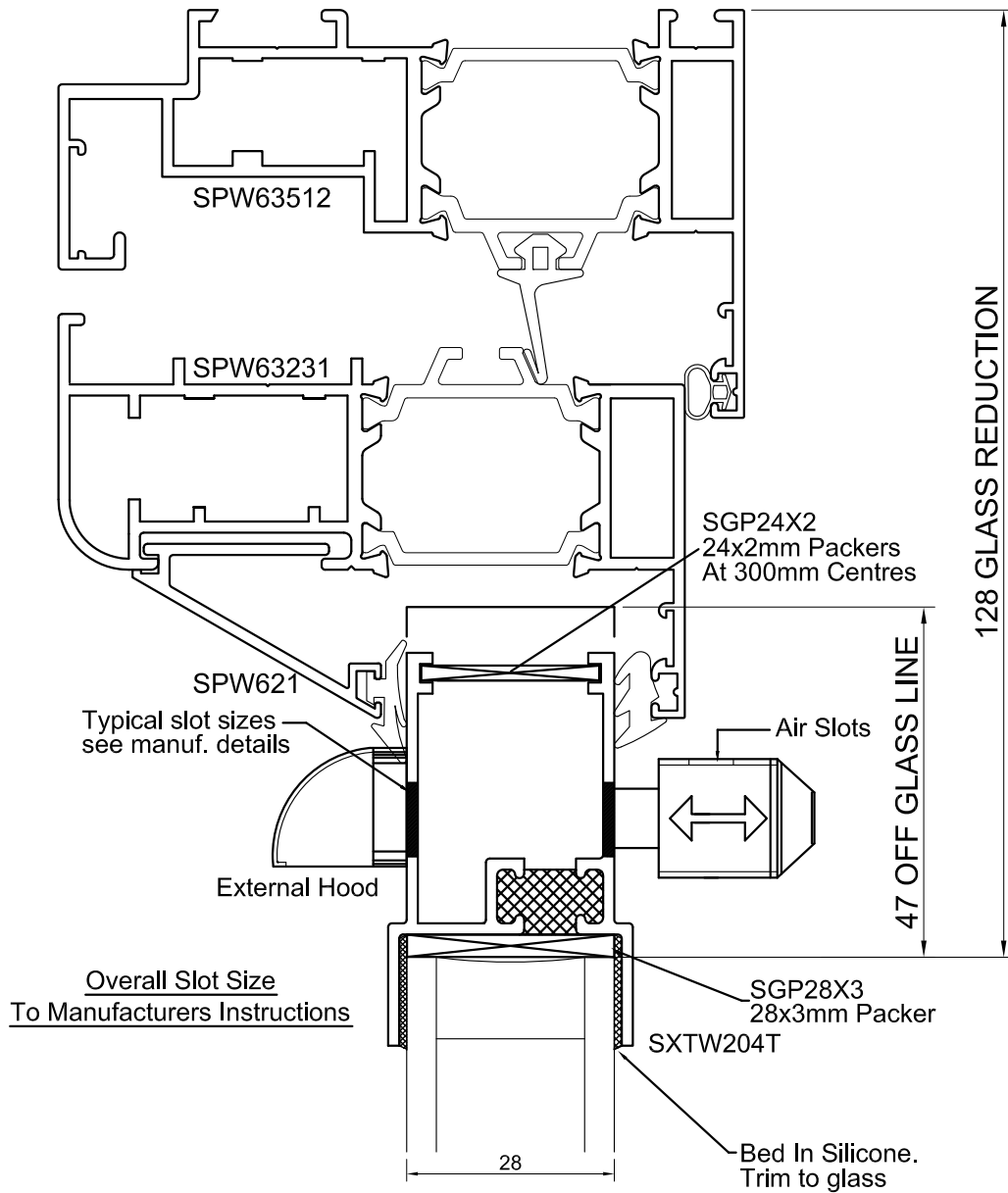
Glazing - Georgian Bar External Bead Only

SPW600e.F.306

04.12

NOTE: LEAVE A 1MM GAP AT ALL JOINTS FOR EXPANSION.  
GLASS & BAR MUST BE CLEANED USING ANY INDUSTRIAL METHYLATED SPIRIT BEFORE APPLICATION. APPLY WITH A LINT FREE CLOTH.  
WHITE SPIRIT MUST NOT BE USED AS IT WILL AFFECT ADHESION.





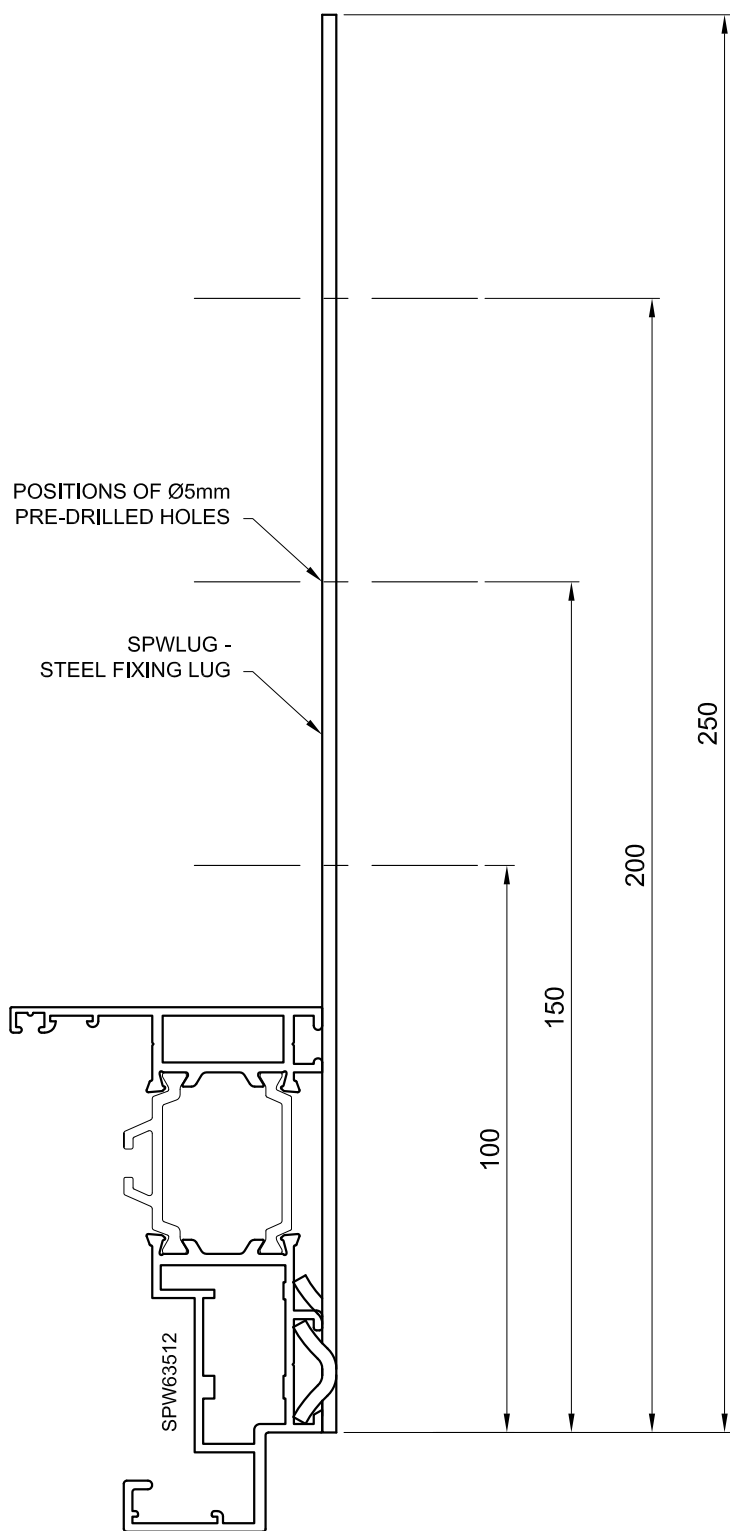
Typical Detail

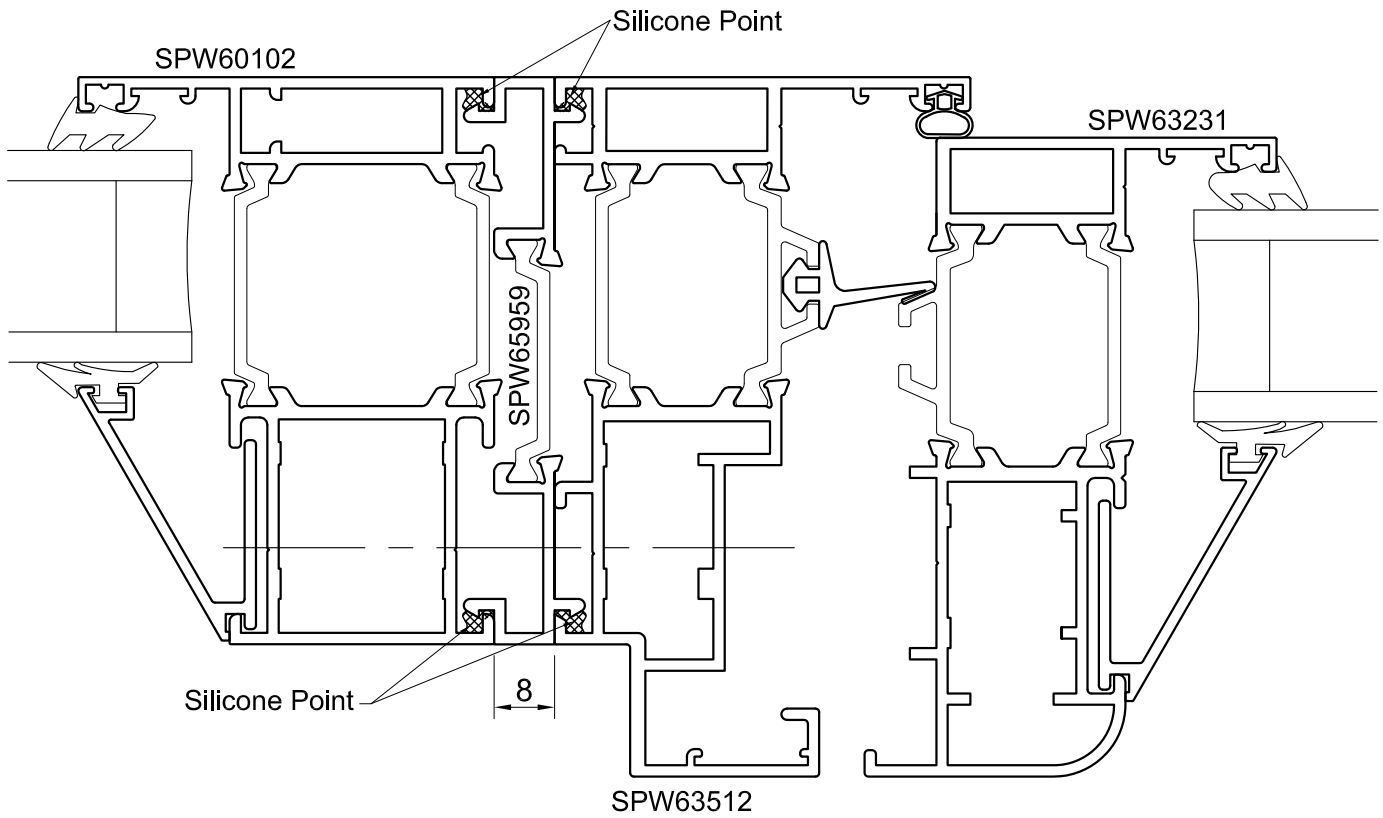
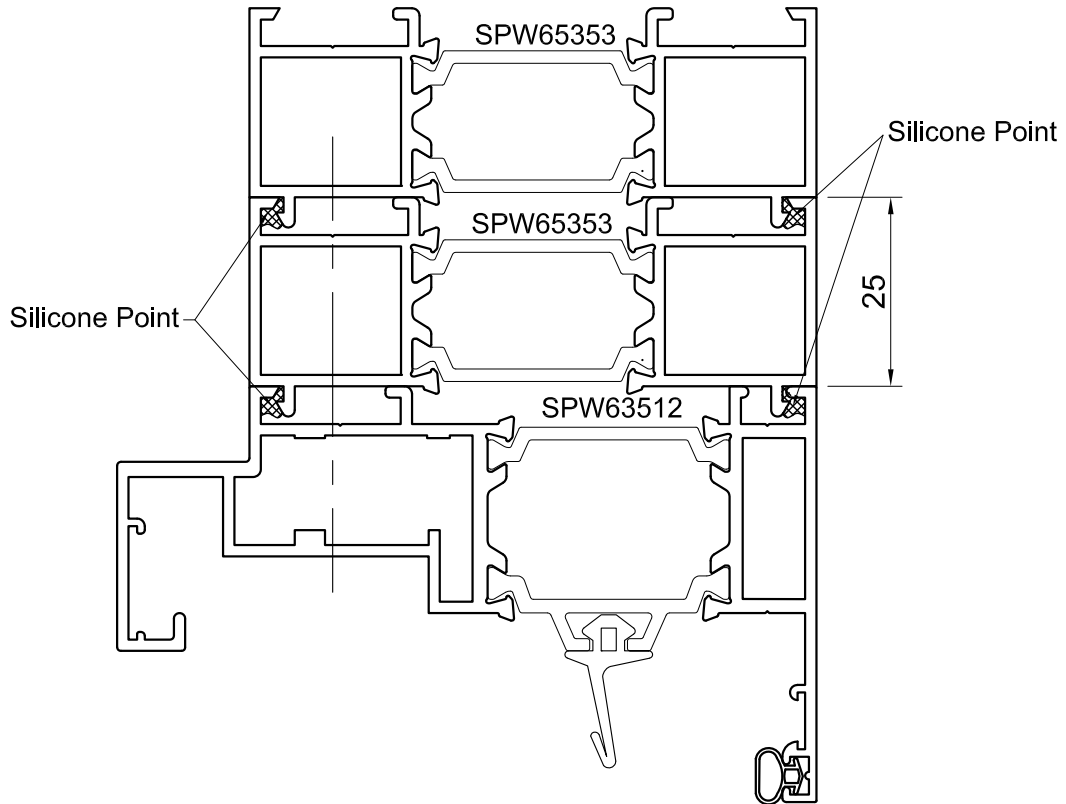
# SPW600e Overswing

## Installation - Steel Fixing Lugs

SPW600e.G.302

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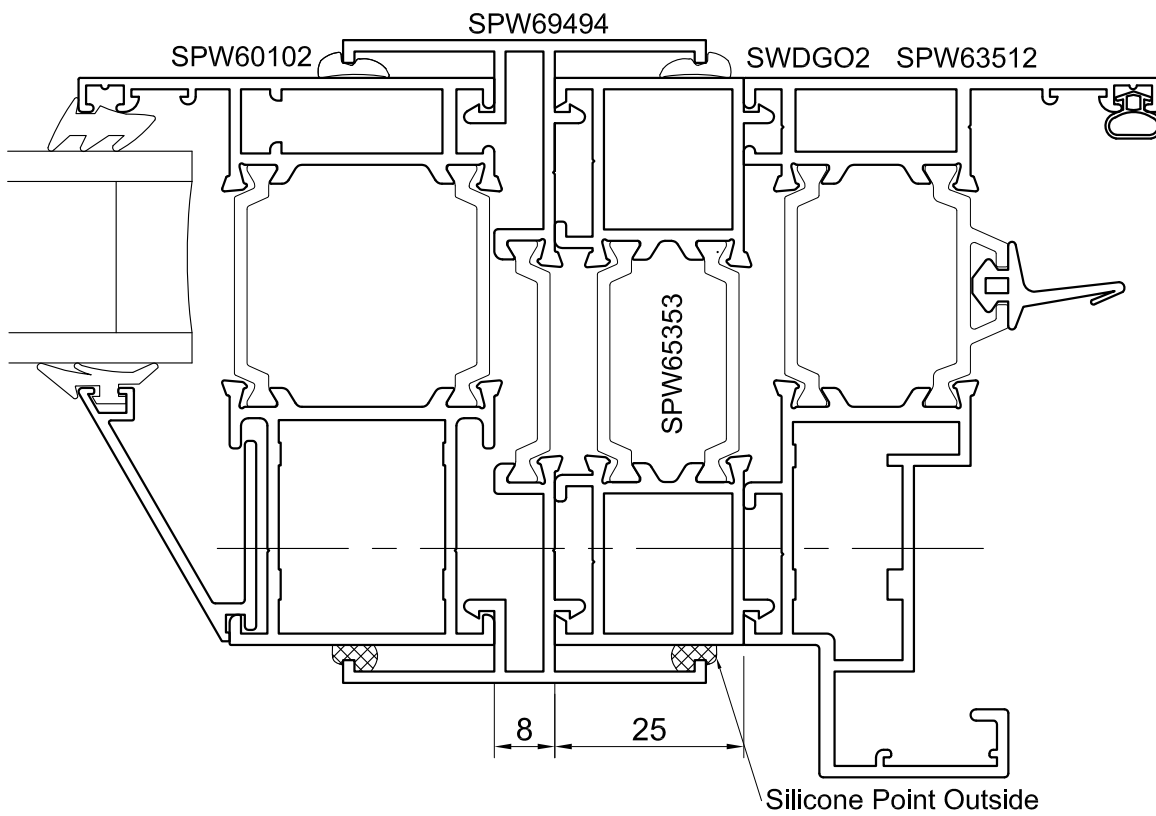
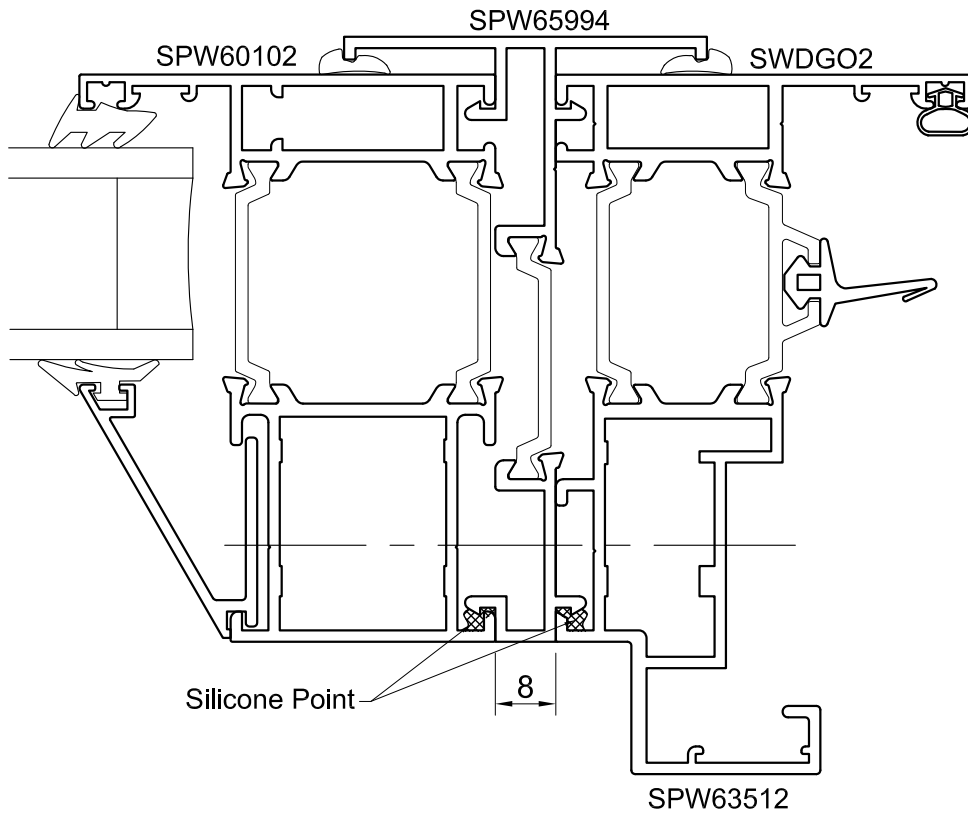


# SPW600e Overswing

SPW600e.G.304

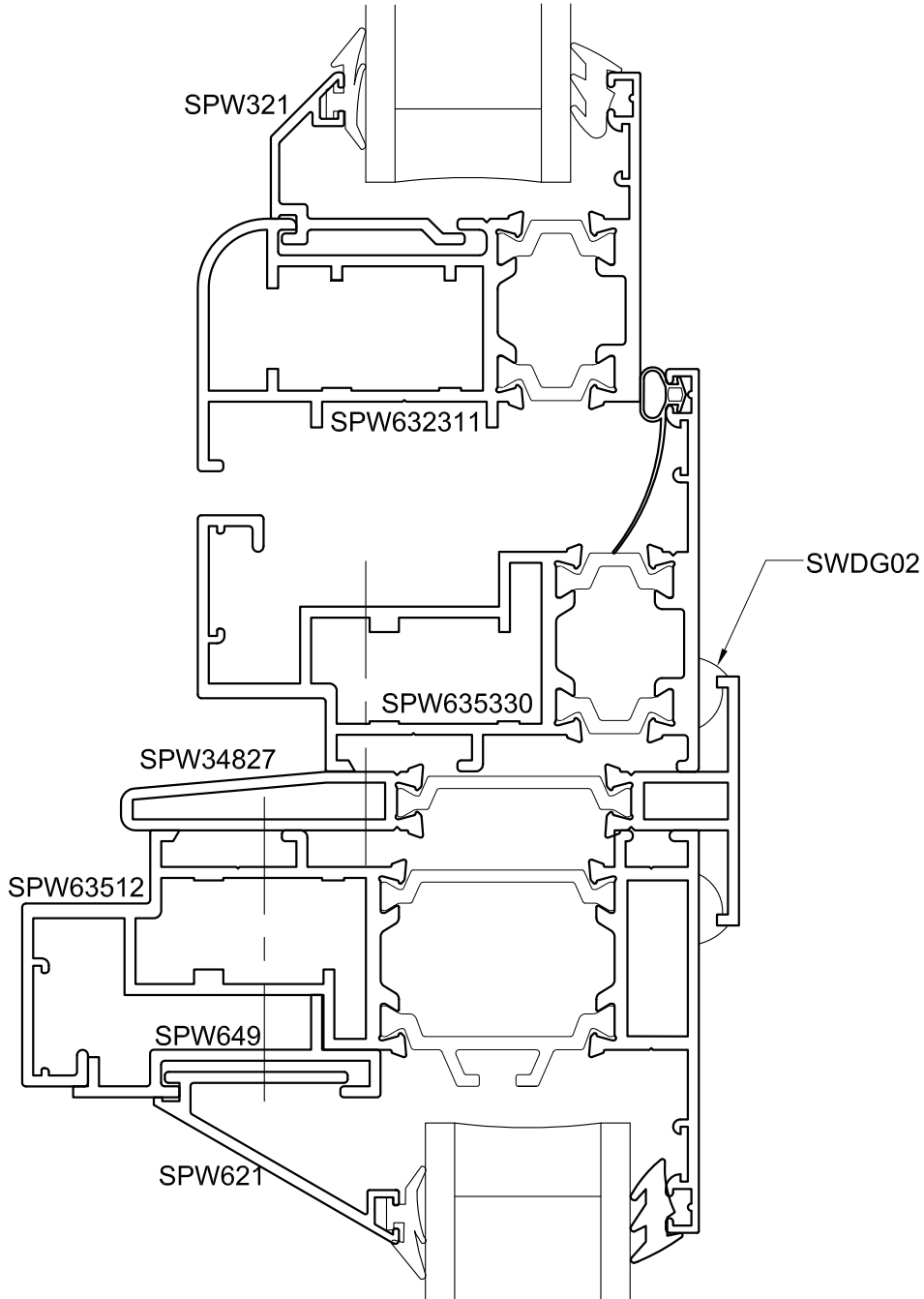
T & H Coupler Details

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# SPW600e Overswing

SPW600eTo SPW300 Coupler Details



# SPW600e Overswing

Blank

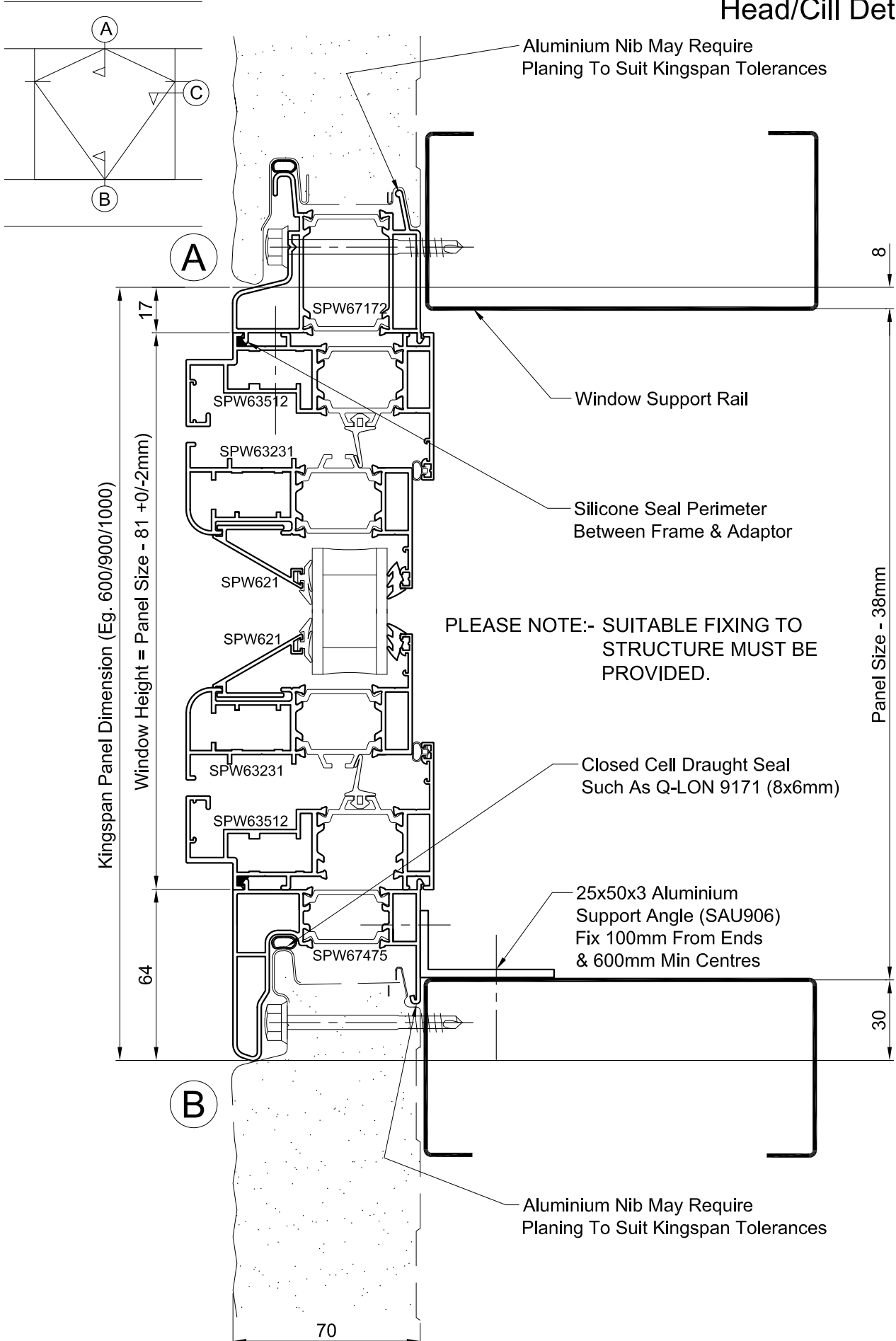
SPW600e.G.306

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# SPW600e Overswing

## Kingspan - 70mm Adaptor Head/Cill Detail



# SPW600e Overswing

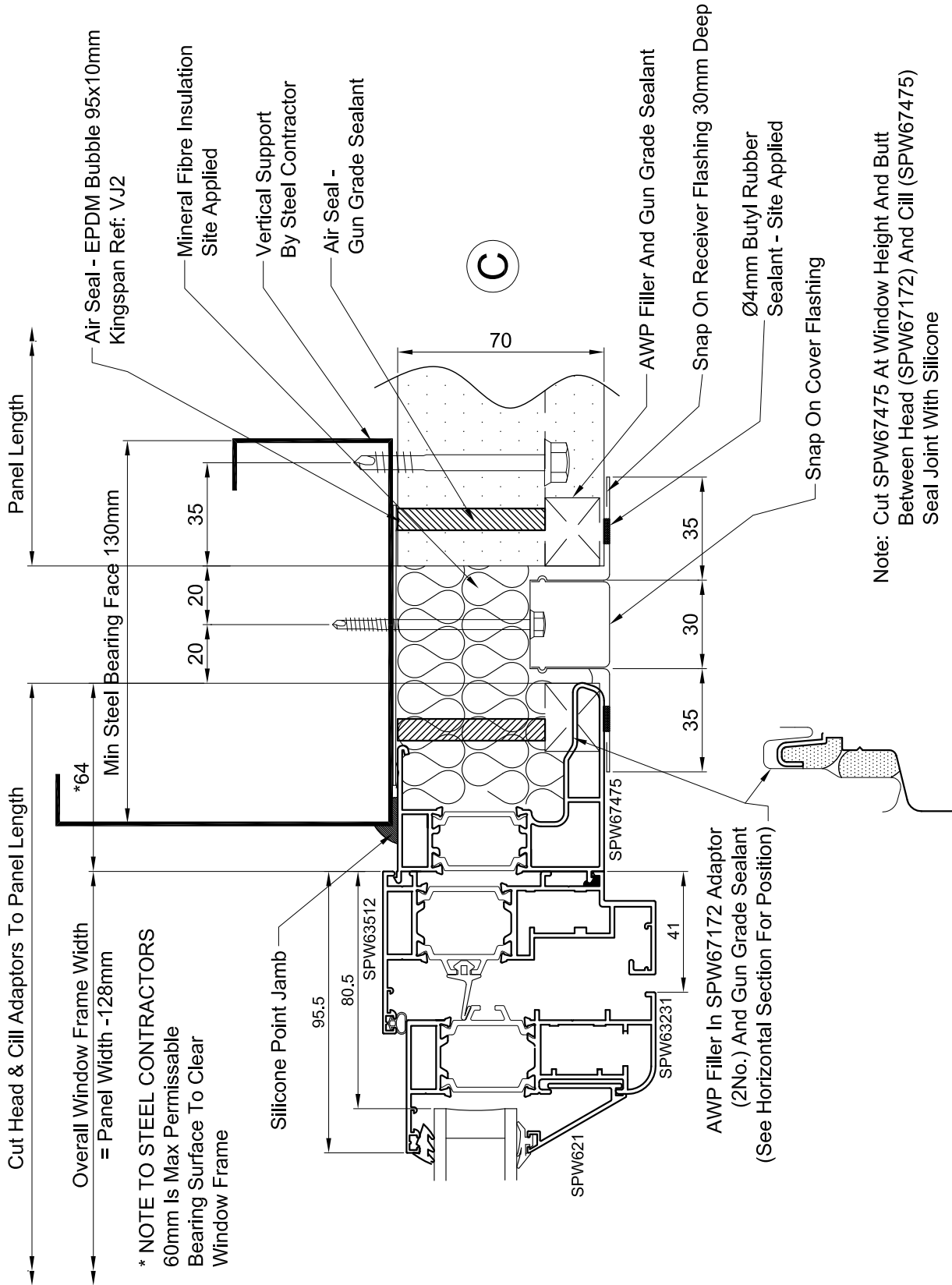
SPW600e.H.302

Kingspan 70mm Adaptor

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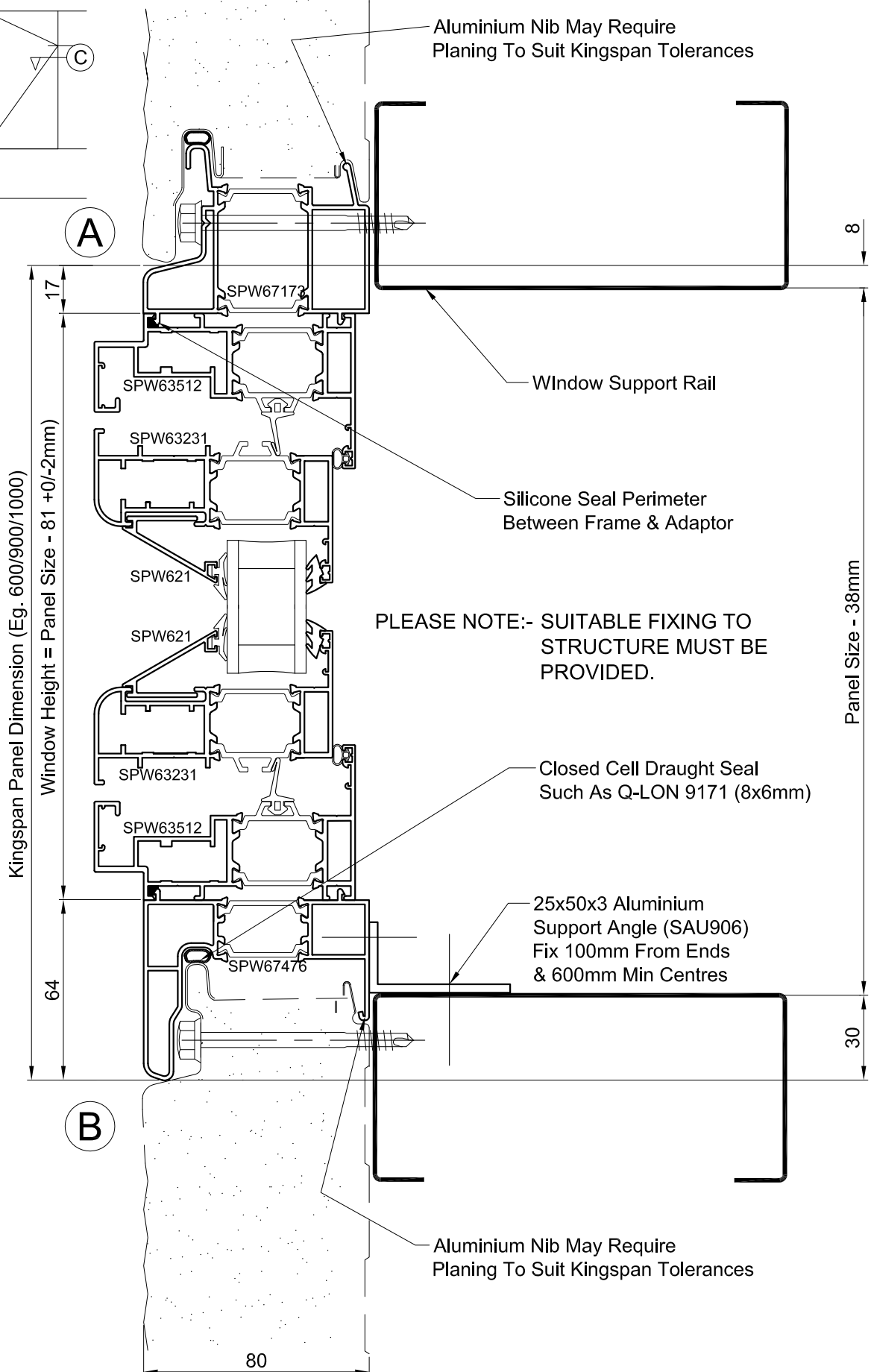
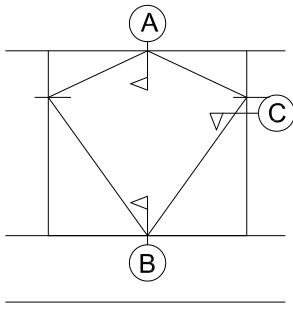
Jamb Detail

PLEASE NOTE:- SUITABLE FIXING TO STRUCTURE MUST BE PROVIDED.



# SPW600e Overswing

## Kingspan 80mm Adaptor Head/Cill Detail



# SPW600e Overswing

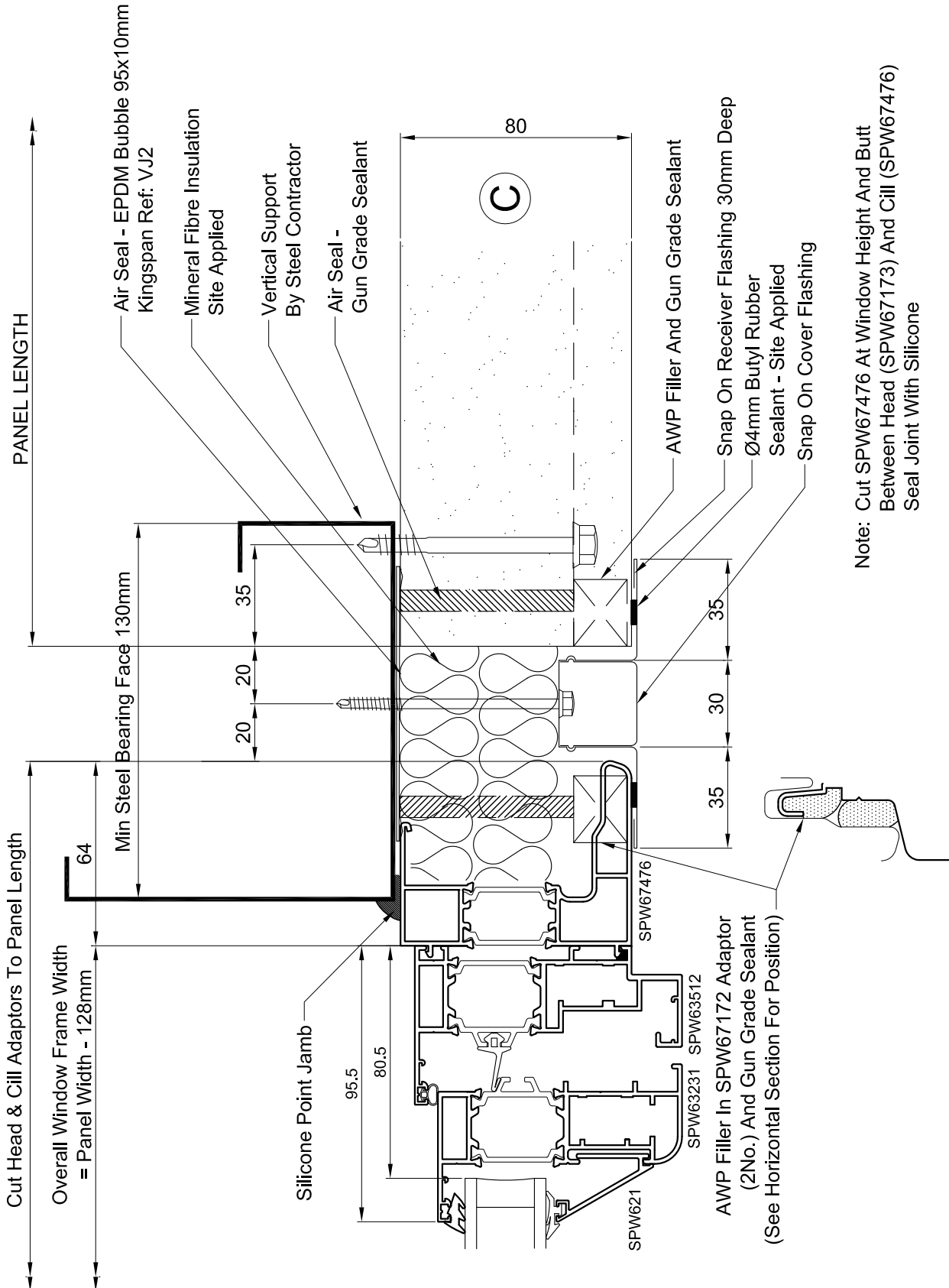
SPW600e.H.304

Kingspan 80mm Adaptor

04.12

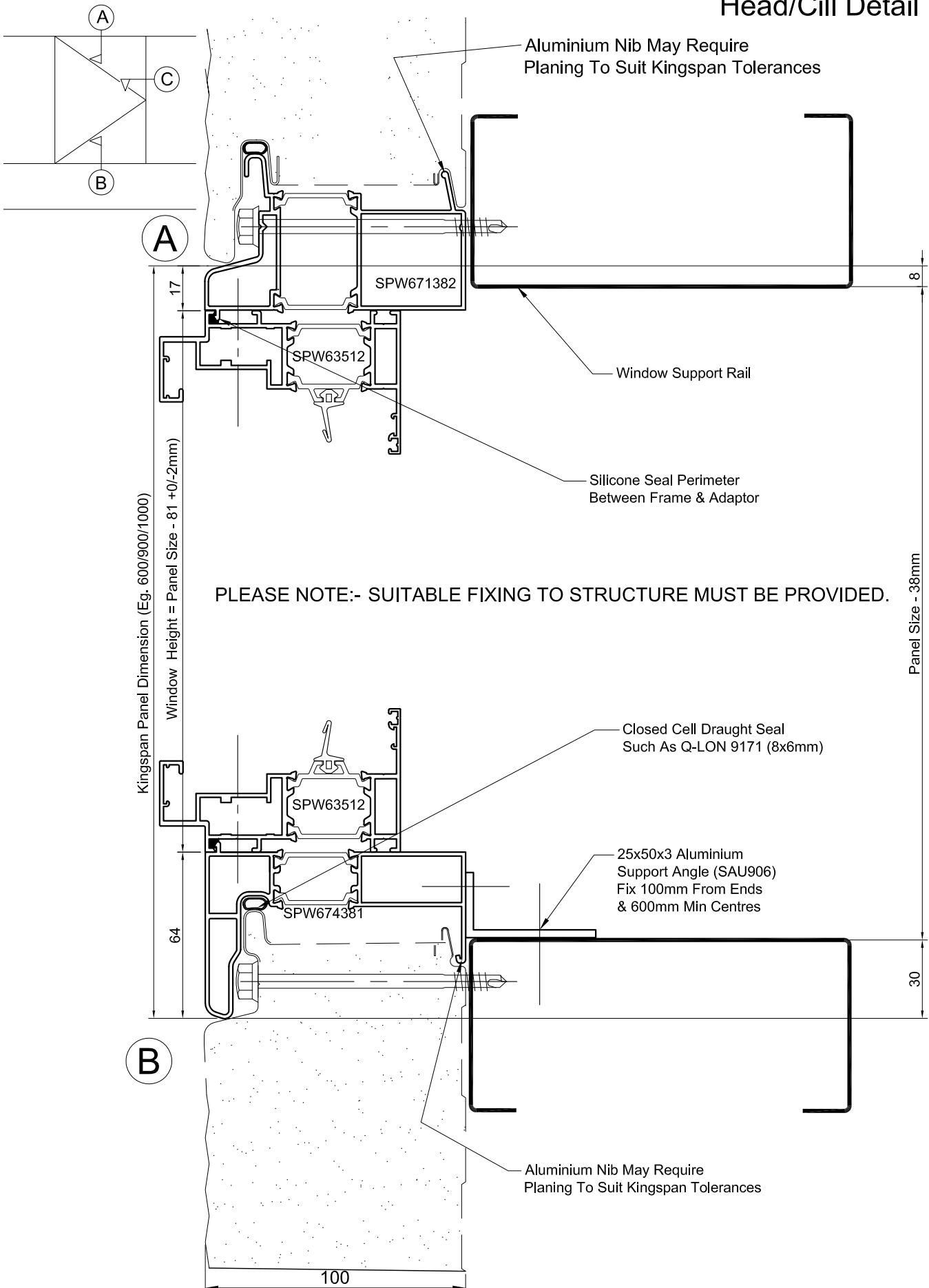
Jamb Detail

SUITABLE FIXING TO STRUCTURE MUST BE PROVIDED.



# SPW600e Overswing

## Kingspan 100mm Adaptor Head/Cill Detail



# SPW600e Overswing

SPW600e.H.306

Kingspan 100mm Adaptor

04.12

Jamb Detail

SUITABLE FIXING TO STRUCTURE MUST BE PROVIDED.

