

SPW600e

**SPW600e
Inward Opening**

**Product Assembly
Manual 2012
Inward Opening**

SPW600e.2.ii SPW600e Inward Opening

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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, Casements, Tilt and Turn Open In, Reversible Overswing, Hor/Vert Pivot, Mid-Rise Commercial Windows, Patent Glazing, Sub Frame, Standard Angles and Rectangular Tubes, Residential Windows, Commercial Doors, 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, Reversible Overswing, Residential 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 Head Office **01709 772600**

Senior Architectural Systems Scotland **01506 407640**

Senior Architectural Systems South **01633 277880**

Senior Architectural Systems 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.

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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 Inward Opening 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 Inward Opening 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 butt hinges or tilt and turn mechanisms.

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 SPW600 Inward Opening windows are tested in accordance with BS6375 Part 1, 1989.

Equipment as required in BS5368: Part 1: 1976.

<i>Air Permeability</i>	<i>600Pa (class C)</i>
<i>Water Tightness</i>	<i>600Pa</i>
<i>Wind Resistance</i>	<i>2400Pa</i>

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.

Internal Double Glazing to 28mm may be installed into this window system as standard, but other options are available.

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

Glass is retained in position with beads. Captive gaskets are inserted into the frame rebates, 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 vary. The following schedule is an indication of the SPW600e system capabilities.

<i>Maximum Sizes</i>	<i>W</i>	<i>x</i>	<i>H</i>
<i>Tilt and Turn</i>	<i>1500</i>	<i>x</i>	<i>1500</i>
<i>Tilt and Turn H/Duty</i>	<i>1500</i>	<i>x</i>	<i>2200</i>

<i>Minimum Sizes</i>	<i>W</i>	<i>x</i>	<i>H</i>
<i>Tilt and Turn</i>	<i>450</i>	<i>x</i>	<i>500</i>

Please refer to limitations data within the manual and supplementary documents.

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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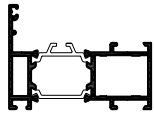
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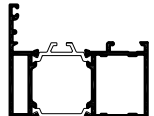
SPW600e Inward Opening

Section Identification

Outer Frames

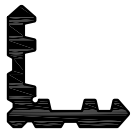


SPW61213
Internal Glaze Outer



SPW64740
Deep Outer

Cleats



SPW645
Corner Cleat - 14.4mm



SXTW281
Corner Cleat - 11.2mm



SW445
Corner Cleat - 21mm

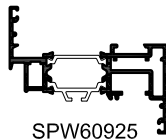


SXTW212
Corner Cleat - 5mm

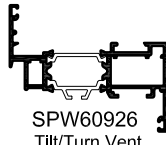


SW446
Corner Cleat - 30mm

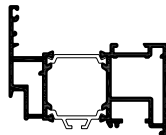
Vent Frames



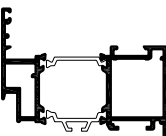
SPW60925
Tilt/Turn Vent
Concealed



SPW60926
Tilt/Turn Vent
Slide Bar



SPW61427
Heavy Duty Tilt/Turn Vent
Concealed



SPW61428
Heavy Duty Tilt/Turn Vent
Slide Bar

Beads



SPW643
Internal Glazed Bead

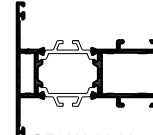


SPW624
32mm Internal Glazed Bead

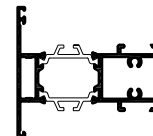
Mullions/Transoms



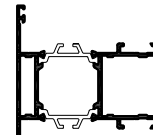
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28mm Curtain Wall Adaptor



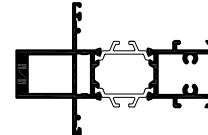
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Transom/Mullion
Shearblock Internal Glaze



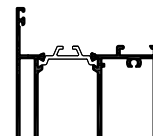
SPW61817
Transom/Mullion
Screwport Internal Glaze



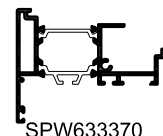
SPW61940
Heavy Duty Transom/Mullion
Shearblock Internal Glaze



SPW600417
Reinforced Transom/Mullion
Screwport Internal Glaze



SPW65455
120mm Deep Rail

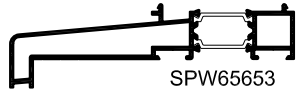


SPW633370
Double Opening Adaptor

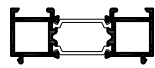
Ancillaries



SPW499653
190mm Cill



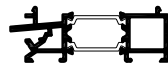
SPW65653
150mm Cill



SPW65353
25mm Add-On



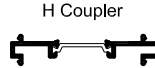
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Coupling Section



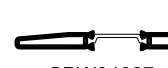
SPW68553
Drainage Cill



SPW69494
H Coupler



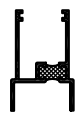
SPW65994
T Coupler



SPW34827
SPW600 To SPW300 Coupling Section



SPW629358
Reinforced Coupling Section

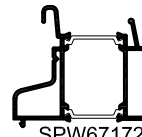


SXTW204
28mm Vent Carrier

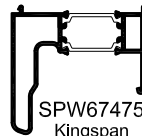


SAE25X4
Georgian Bar

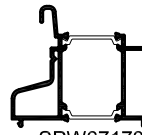
Kingspan Adaptors



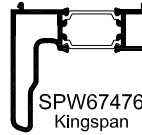
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Kingspan
70mm Head Adaptor



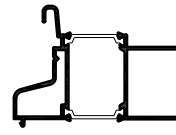
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Kingspan
70mm Cill/Jamb Adaptor



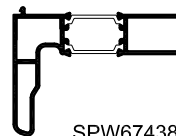
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Kingspan
80mm Head Adaptor



SPW67476
Kingspan
80mm Cill/Jamb Adaptor

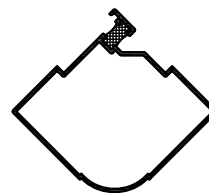


SPW671382
Kingspan
100mm Head Adaptor



SPW674381
Kingspan
100mm Cill/Jamb Adaptor

Ancillaries



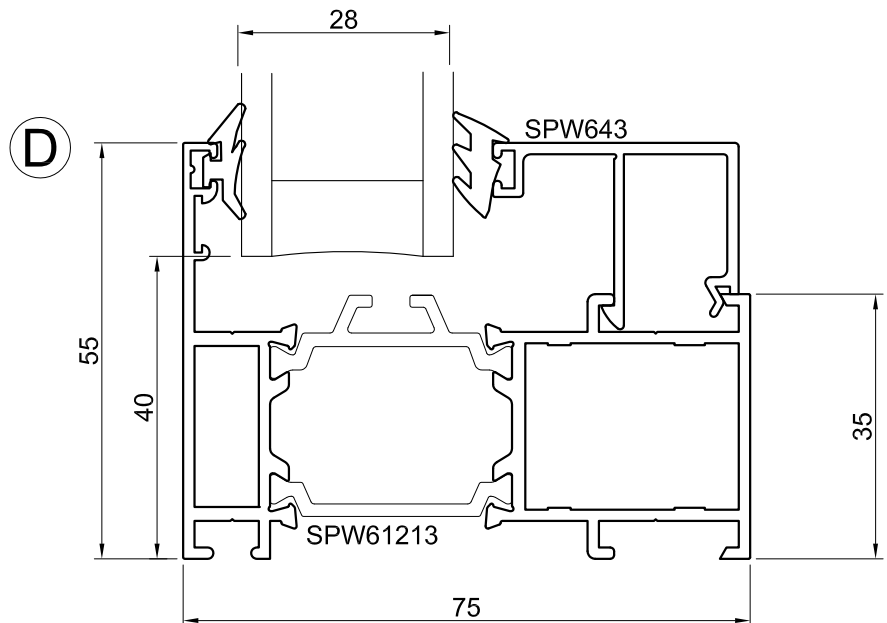
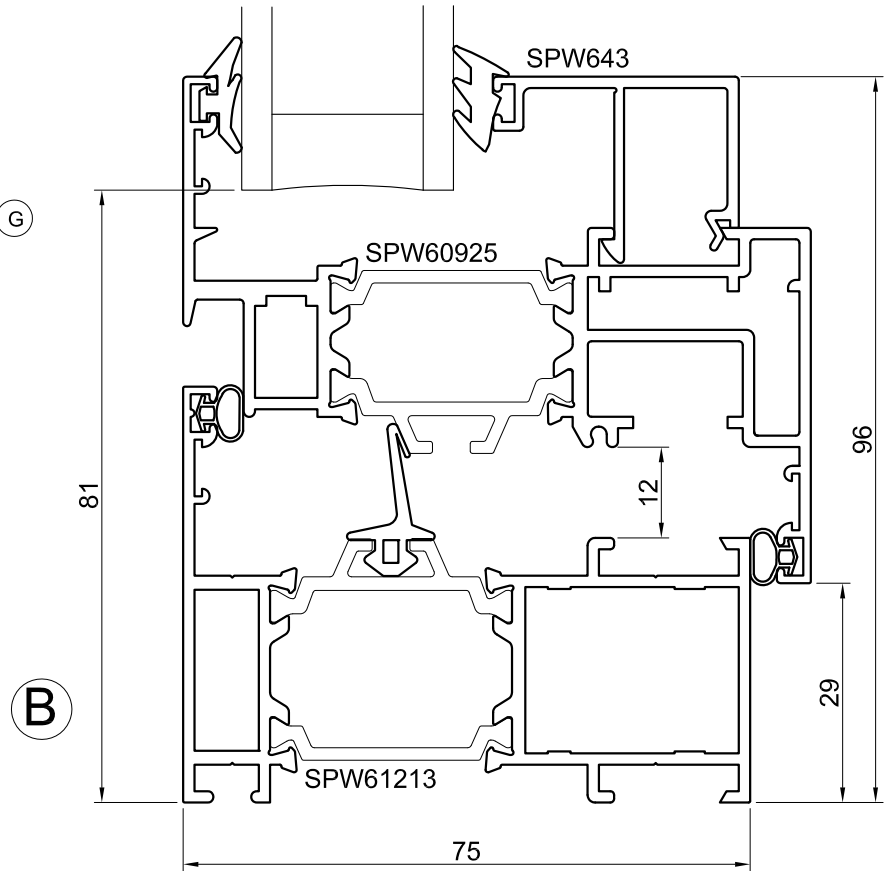
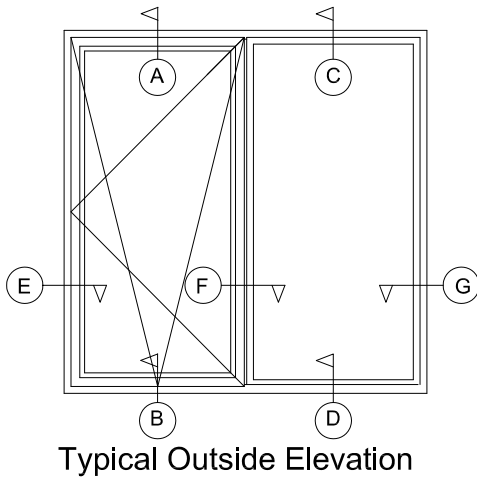
STC7357
Corner Post

SPW600e.A.201

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SPW600e Inward Opening

Vertical Cross Section - Concealed Gear

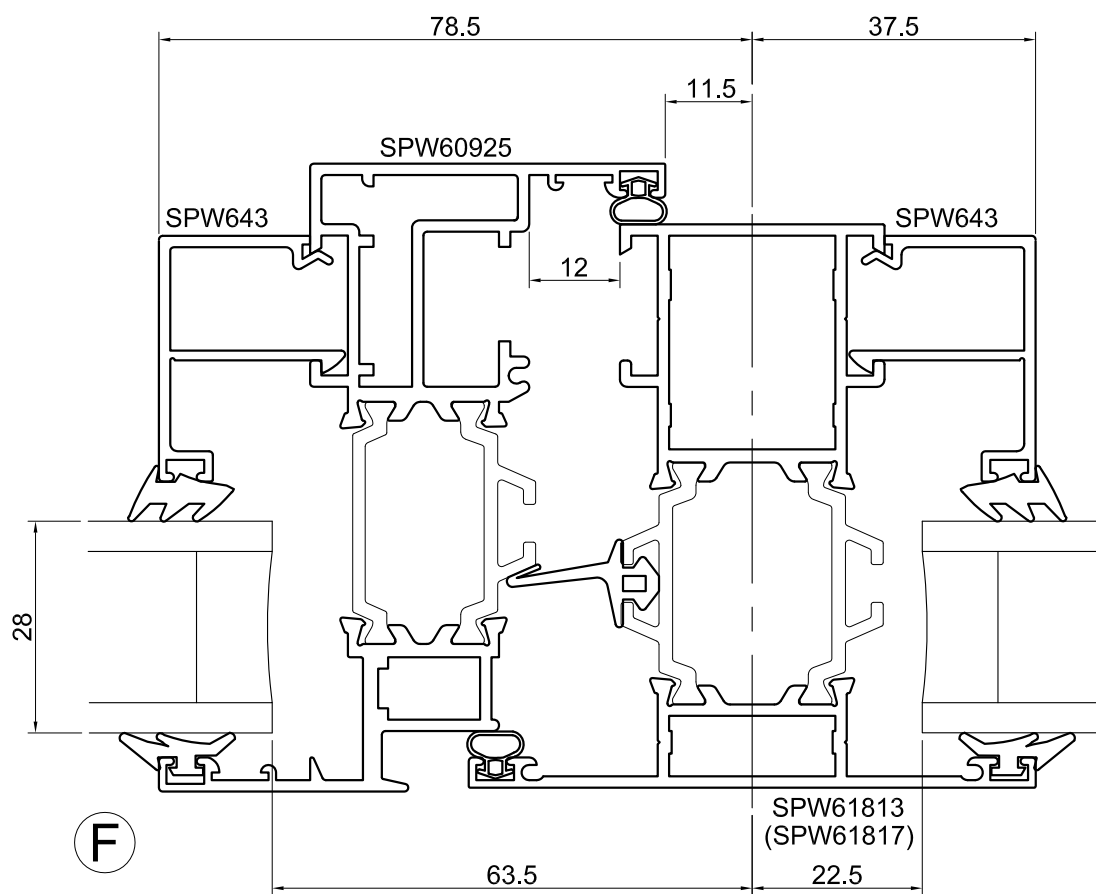


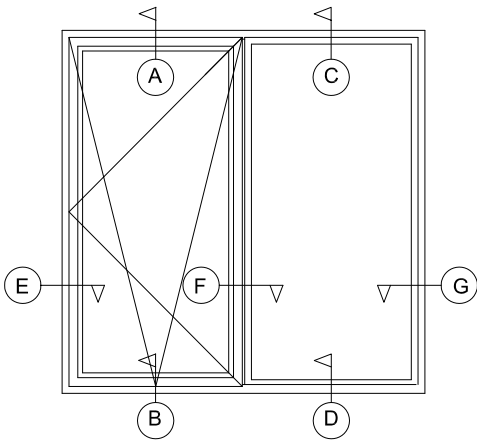
SPW600e Inward Opening

SPW600e.A.202

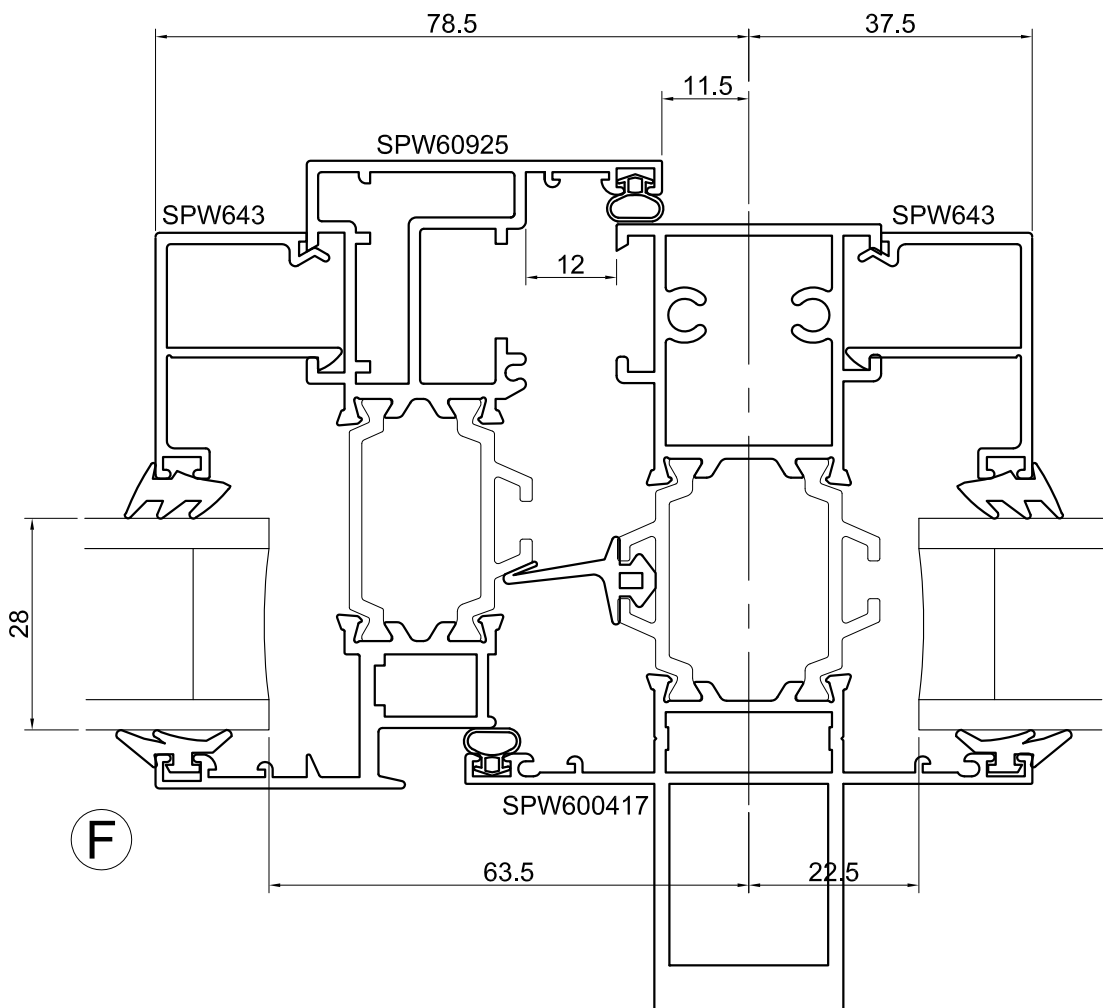
Horizontal Cross Section - Concealed Gear

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Typical Outside Elevation

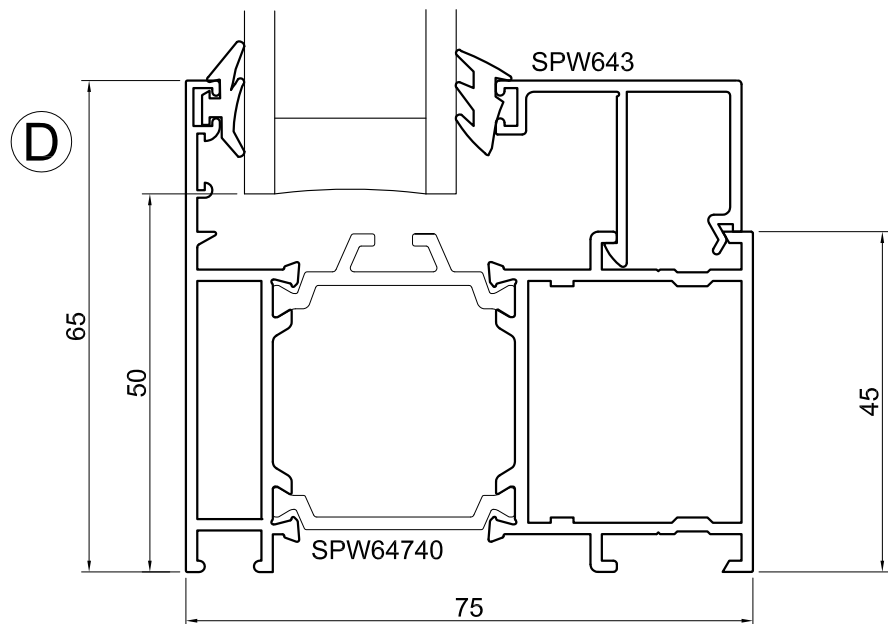
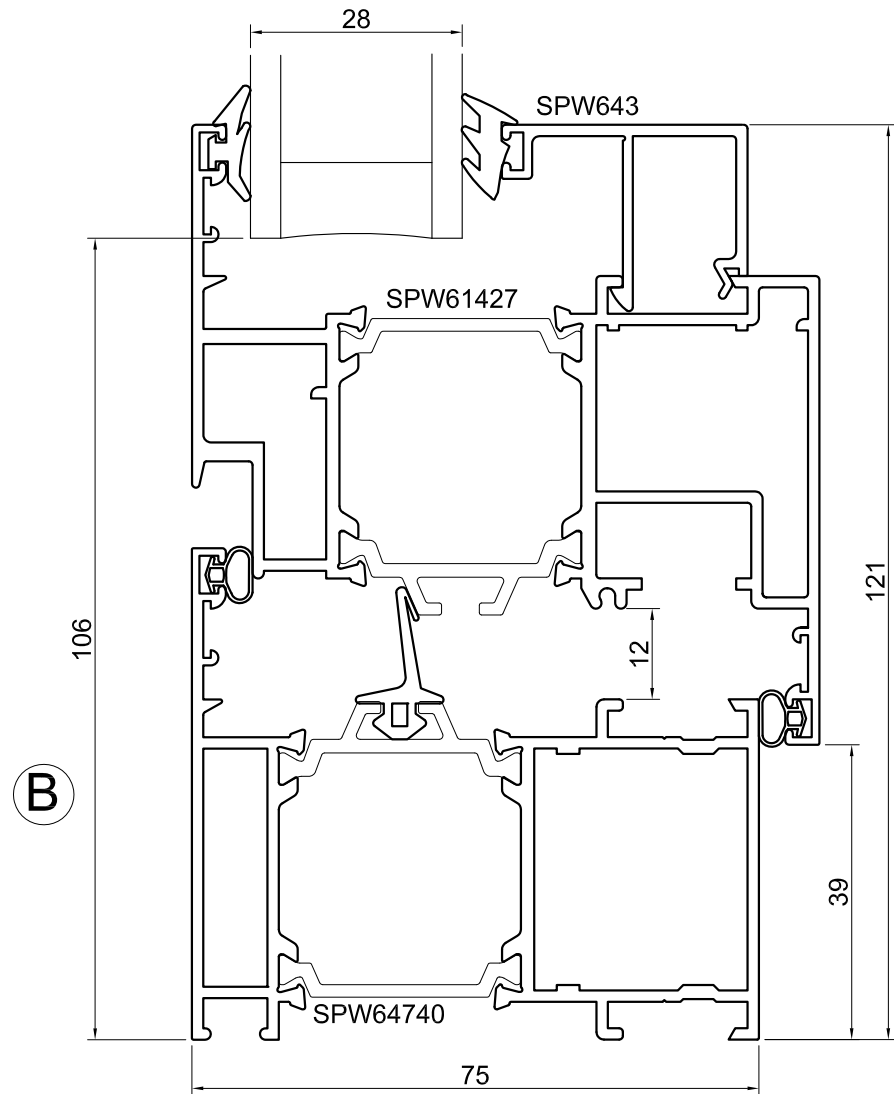


SPW600e Inward Opening

SPW600e.A.204

Vertical Cross Section - Heavy Duty Concealed

04.12

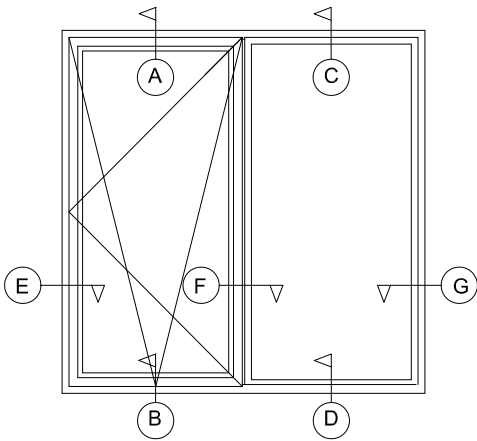


SPW600e.A.205

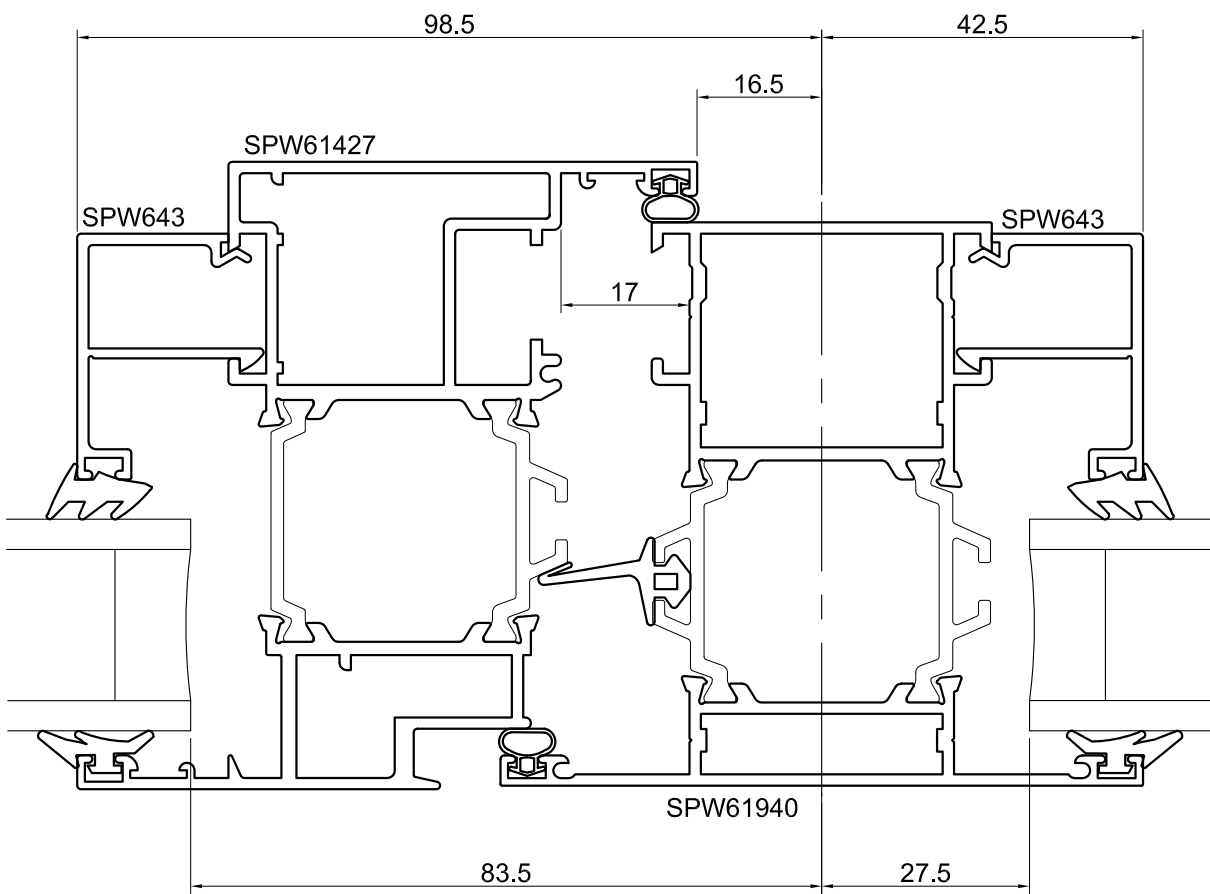
SPW600e Inward Opening

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Horizontal Cross Section - Heavy Duty Concealed



Typical Outside Elevation



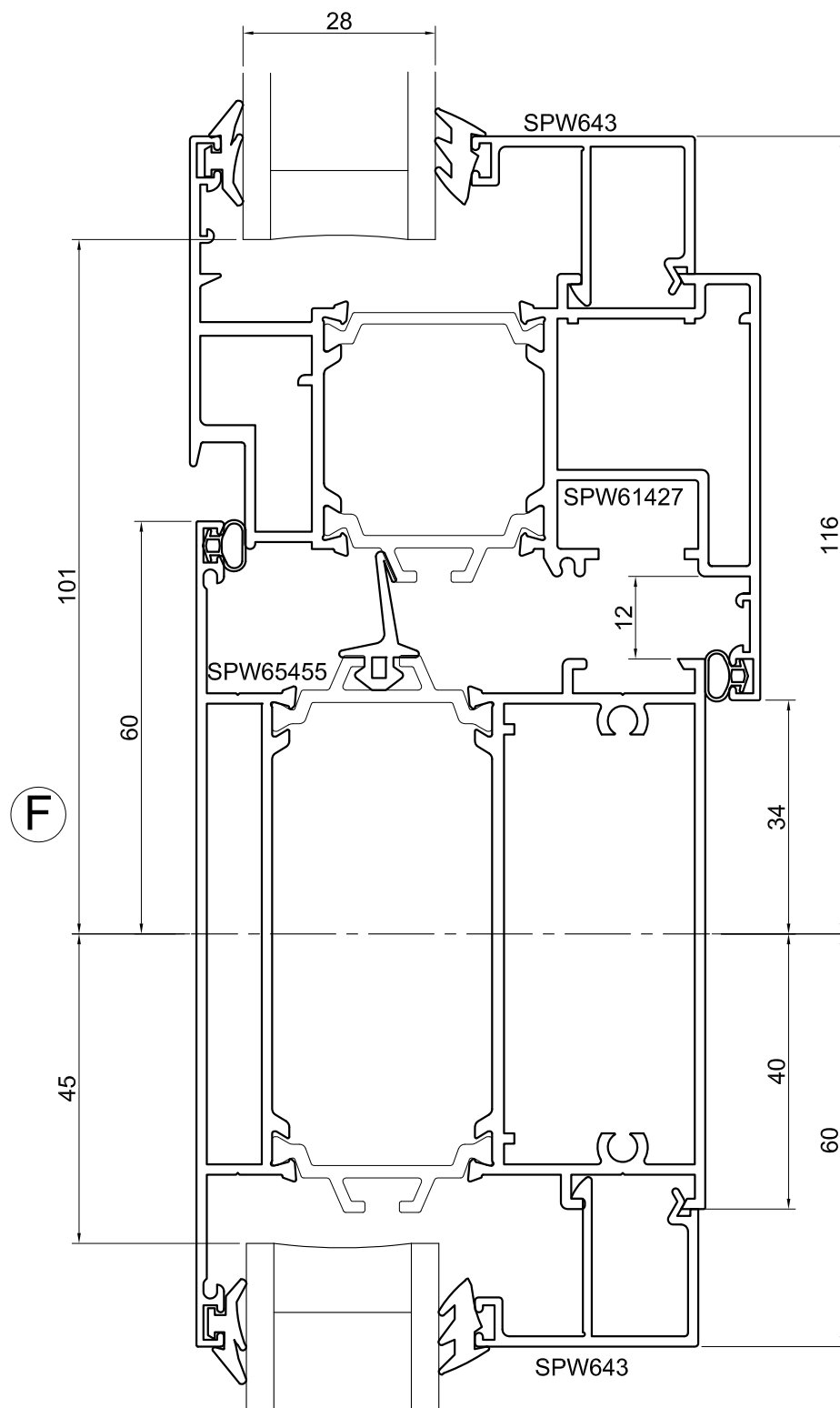
F

SPW600e Inward Opening

SPW600e.A.206

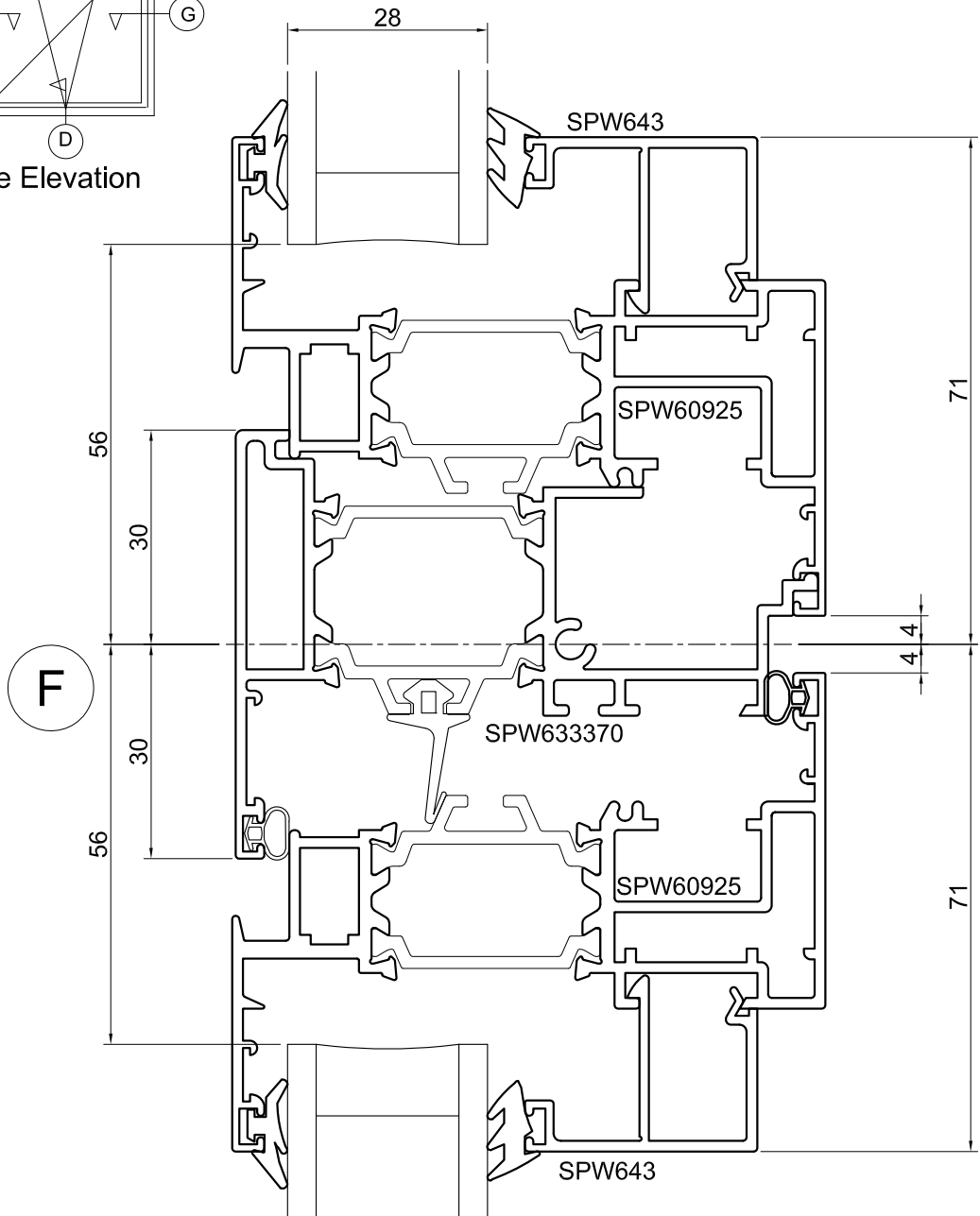
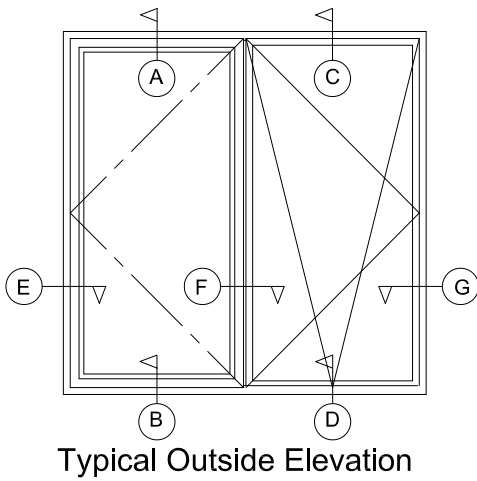
Horizontal Cross Section - Heavy Duty

04.12



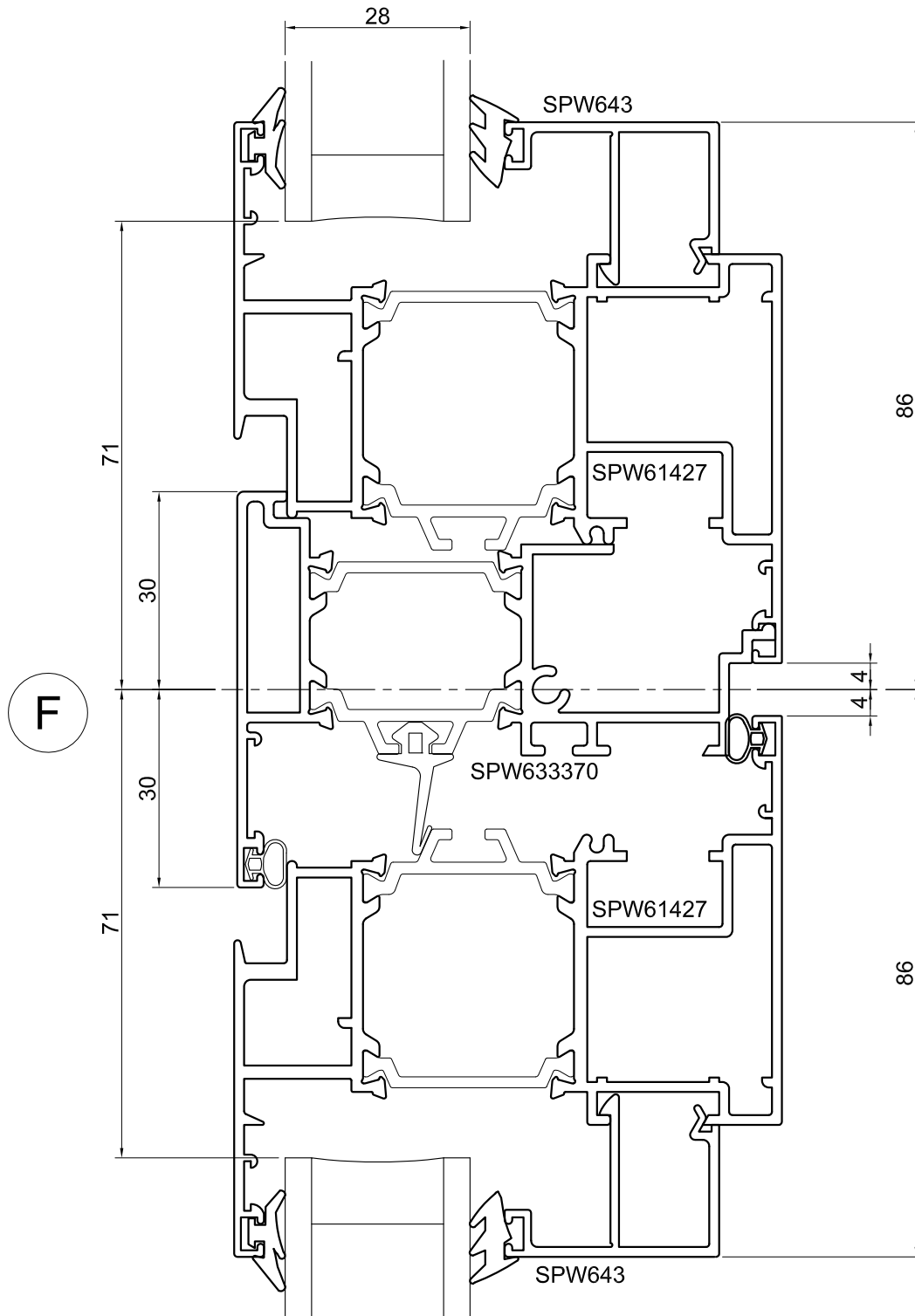
SPW600e.A.207 SPW600e Inward Opening

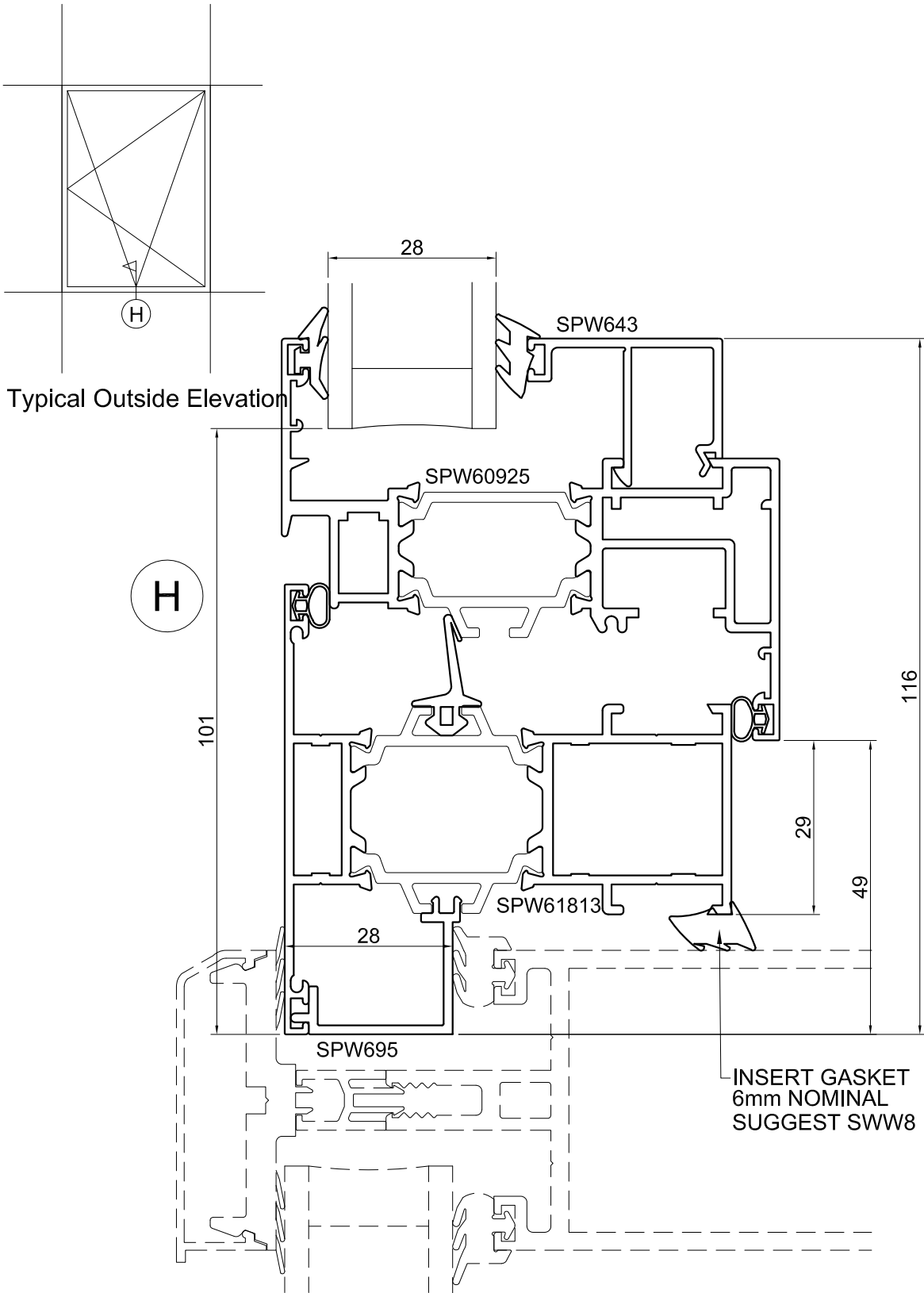
04.12 Horizontal Cross Section - Double Opening Adaptor Concealed



SPW600e Inward Opening SPW600e.A.208

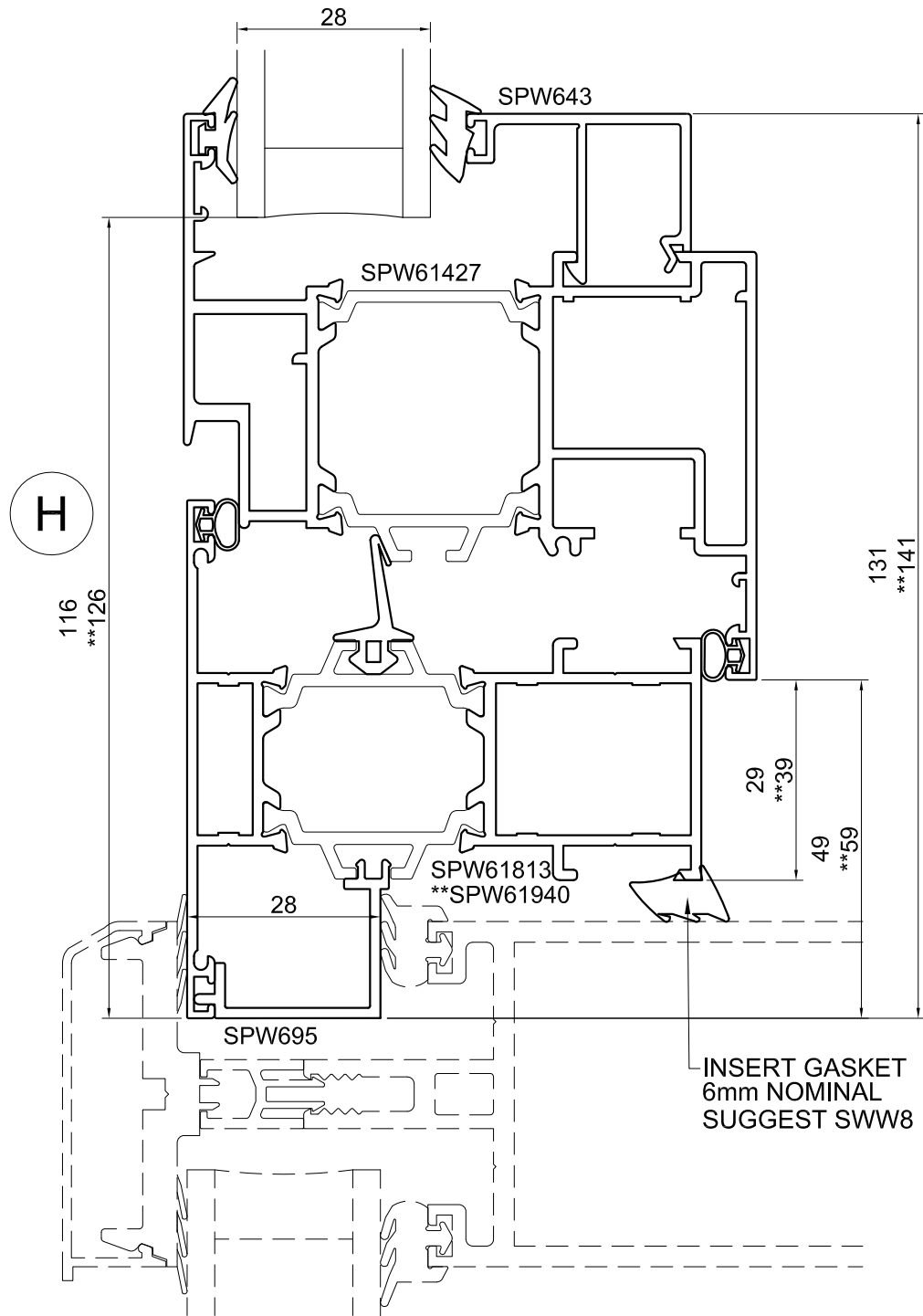
Horizontal Cross Section - Double Opening Adaptor Concealed H/D 04.12

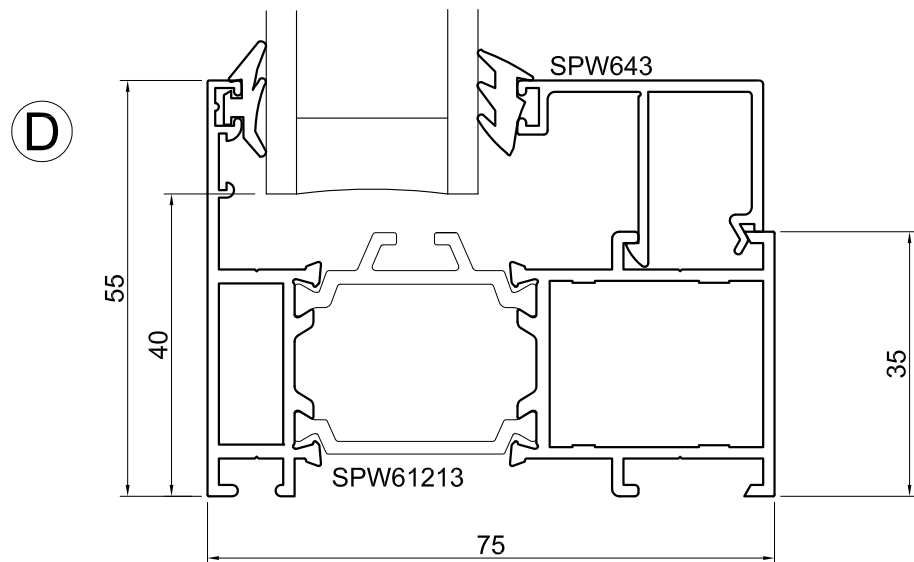
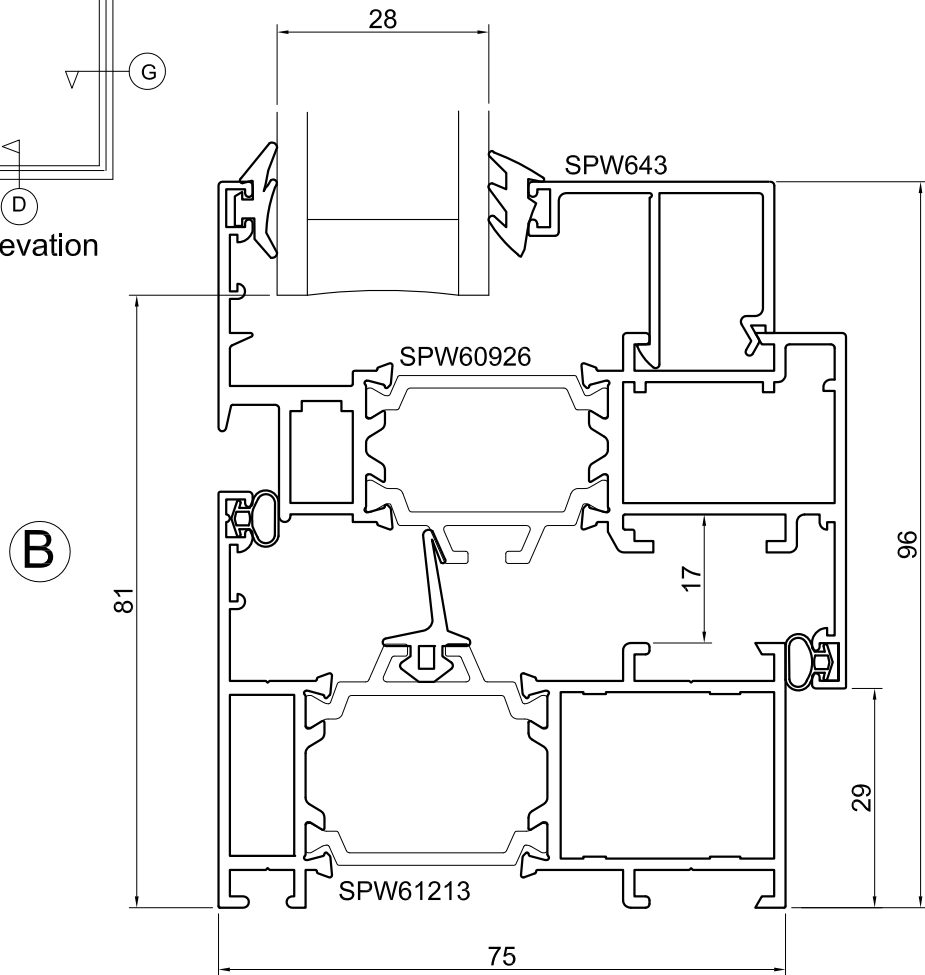
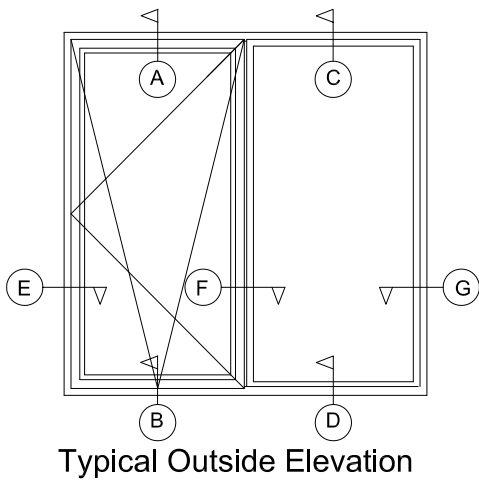




SPW600e Inward Opening SPW600e.A.210

Vertical Cross Section - Heavy Duty Vent - Concealed/Curtain Wall 04.12



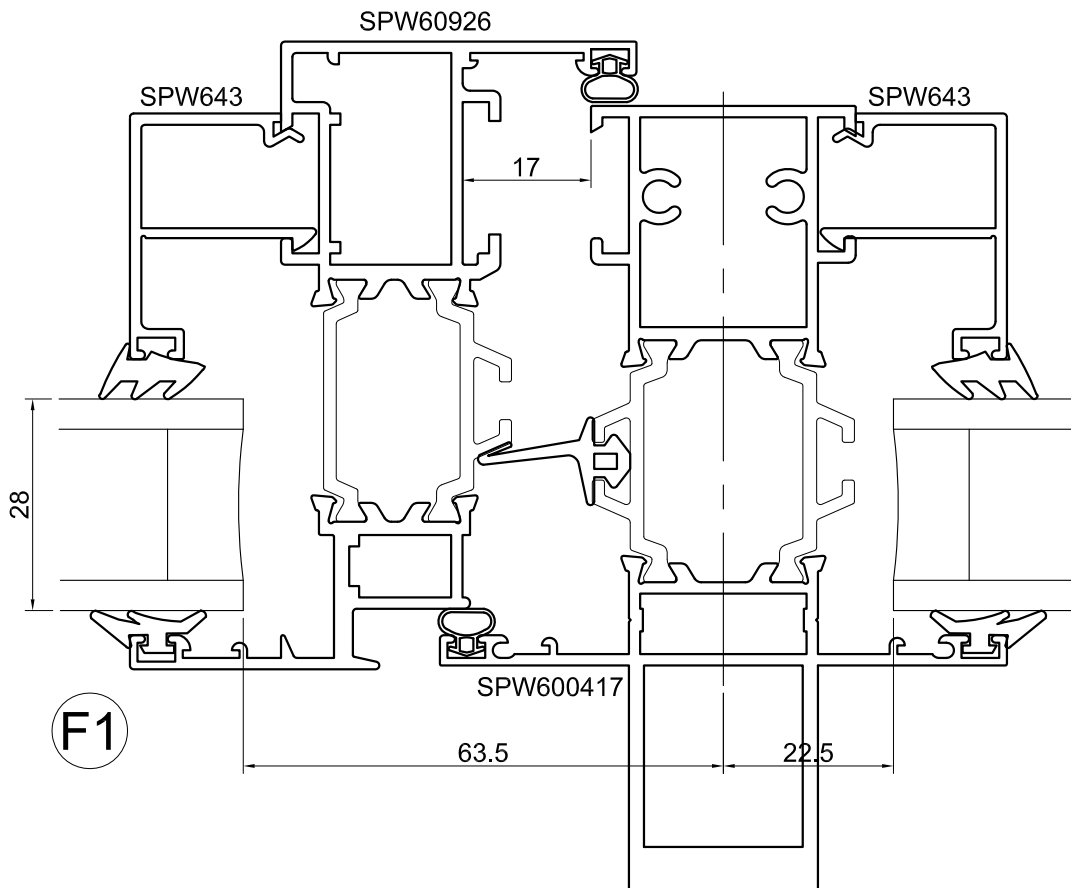
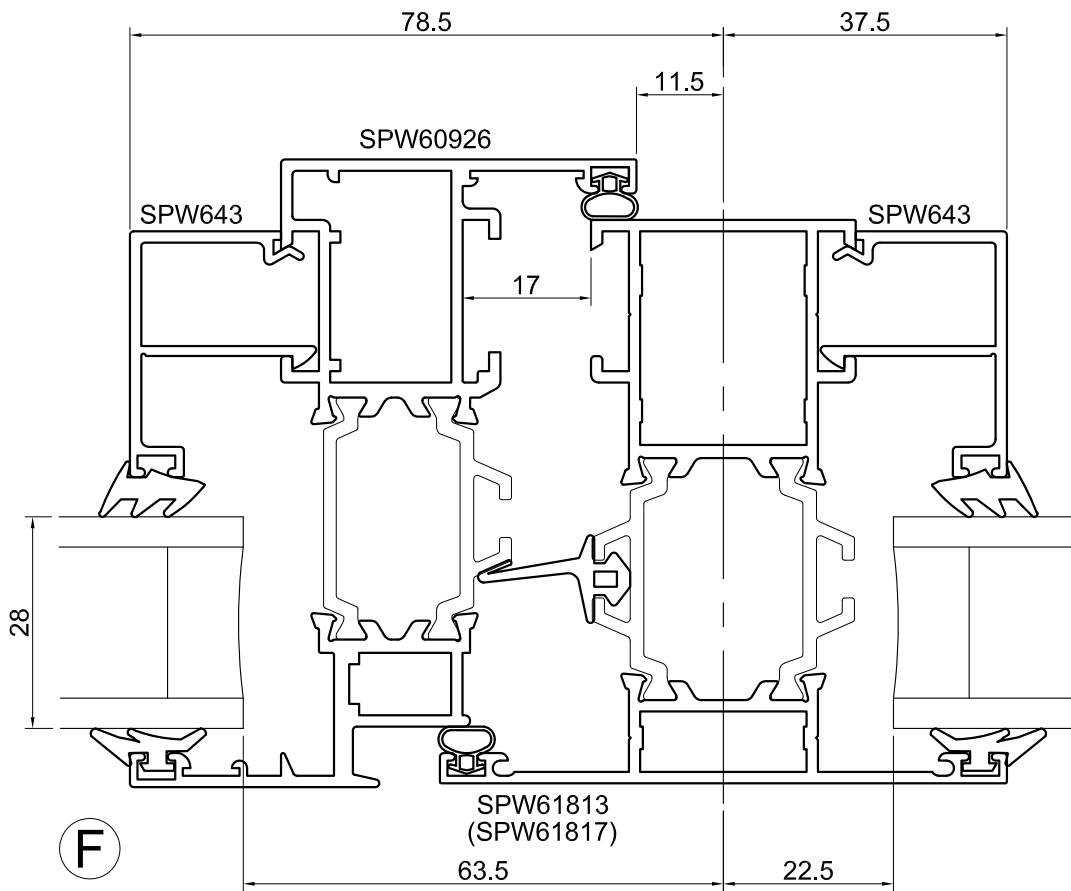


SPW600e Inward Opening

SPW600e.A.212

Horizontal Cross Section - Slide Bar

04.12

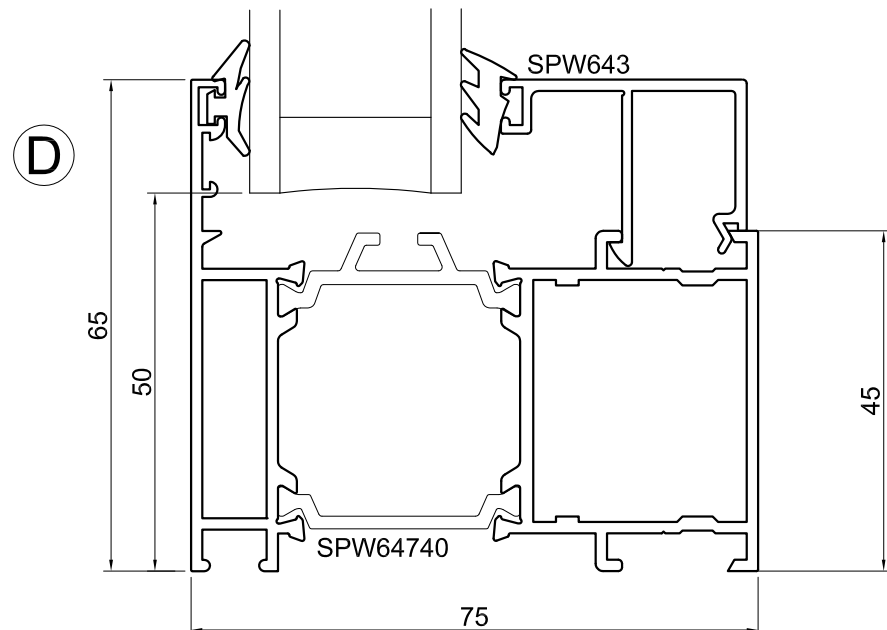
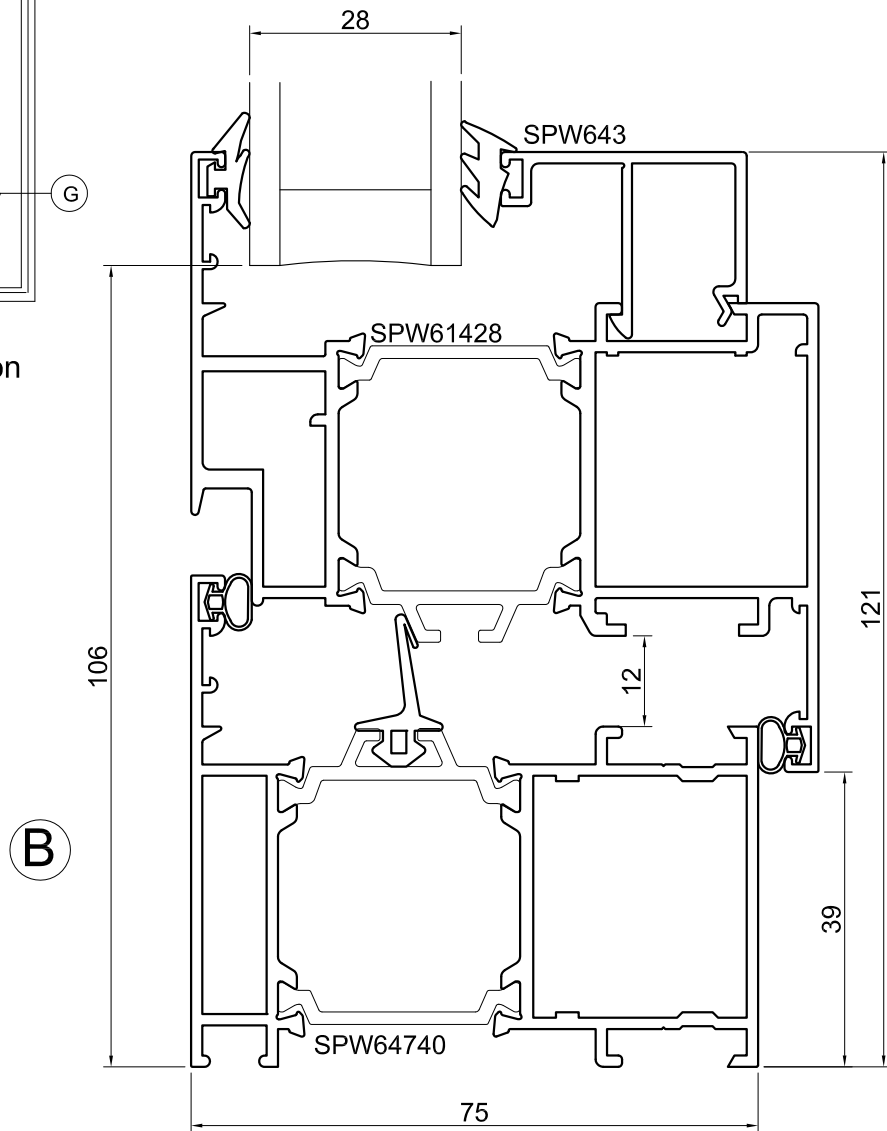
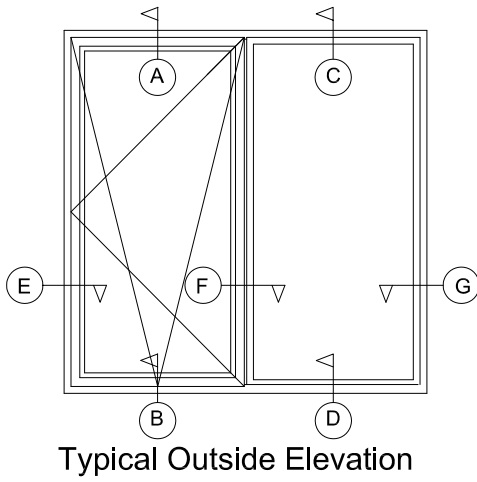


SPW600e.A.213

04.12

SPW600e Inward Opening

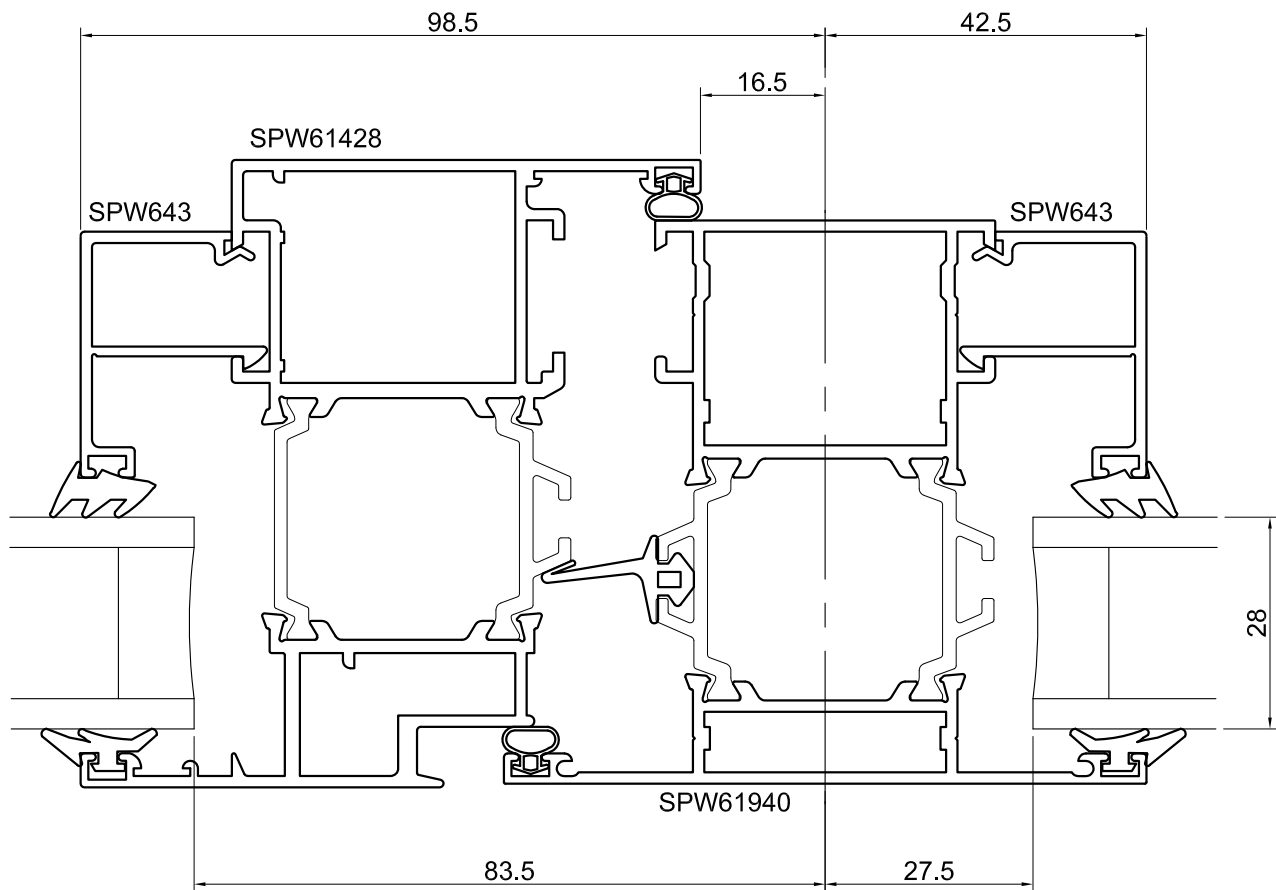
Vertical Cross Section - Heavy Duty Slide Bar



SPW600e Inward Opening SPW600e.A.214

Horizontal Cross Section - Heavy Duty Slide Bar

04.12



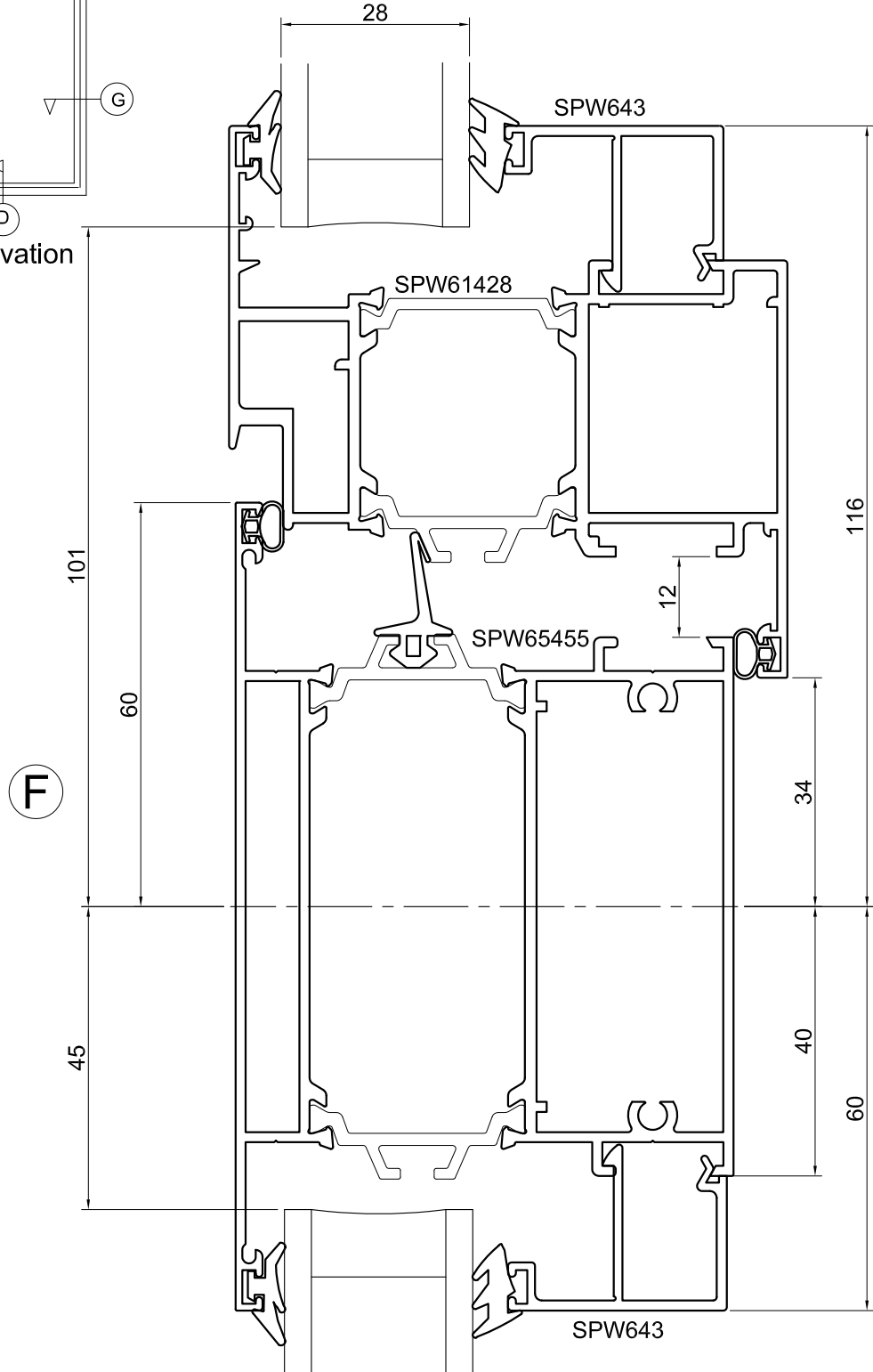
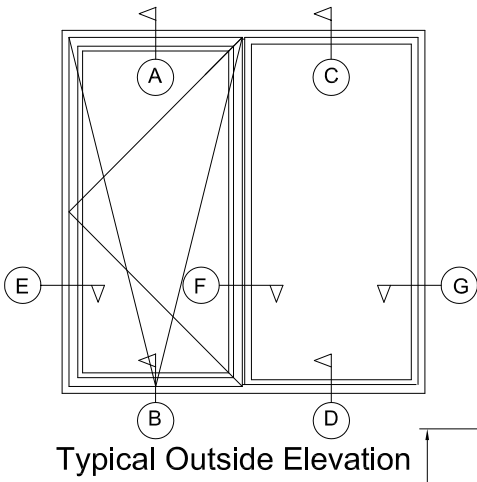
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SPW600e.A.215

SPW600e Inward Opening

04.12

Horizontal Cross Section - Heavy Duty Slide Bar



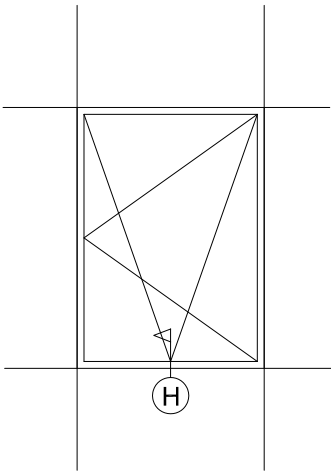
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SPW600e.A.217

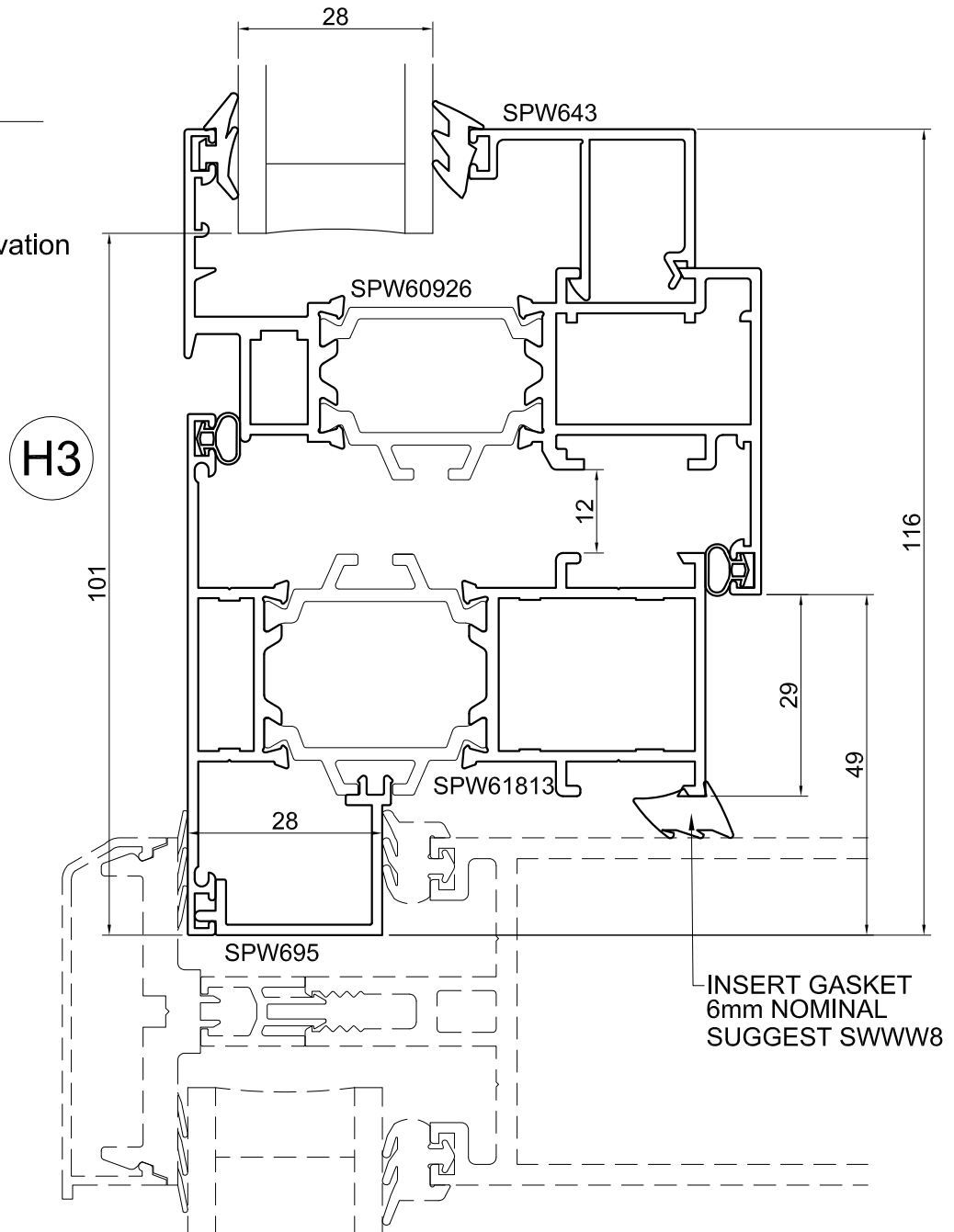
04.12

SPW600e Inward Opening

Vertical Cross Section - Slide Bar/Curtain Wall



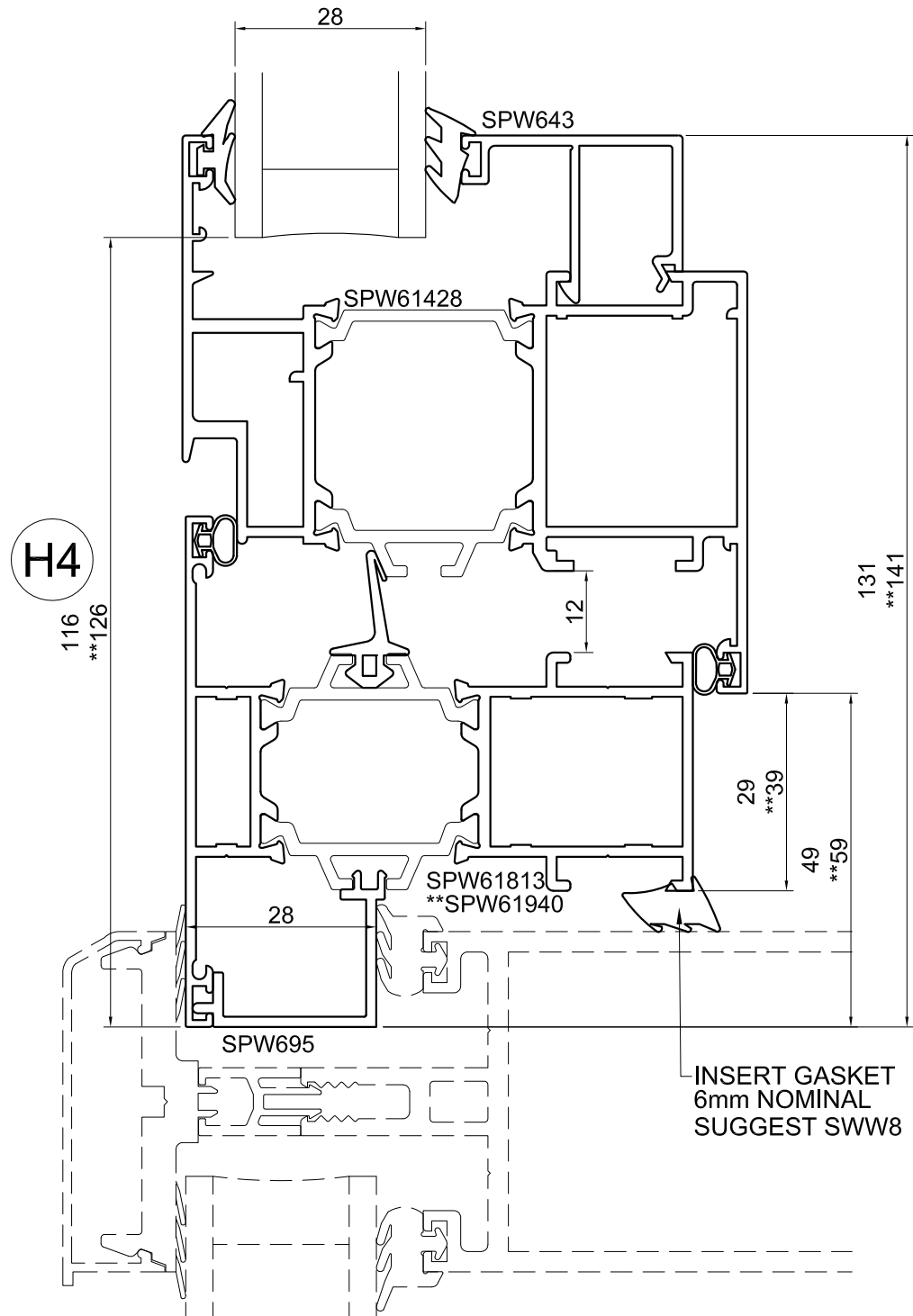
Typical Outside Elevation

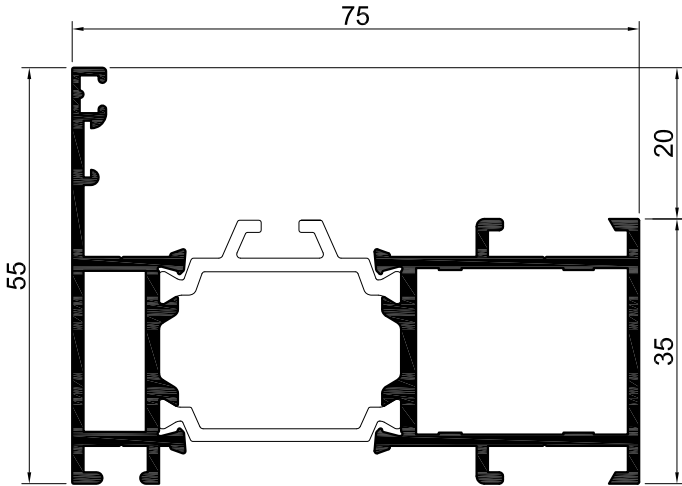


SPW600e Inward Opening SPW600e.A.218

Vertical Cross Section - Heavy Duty Slide Bar/Curtain Wall





04.12





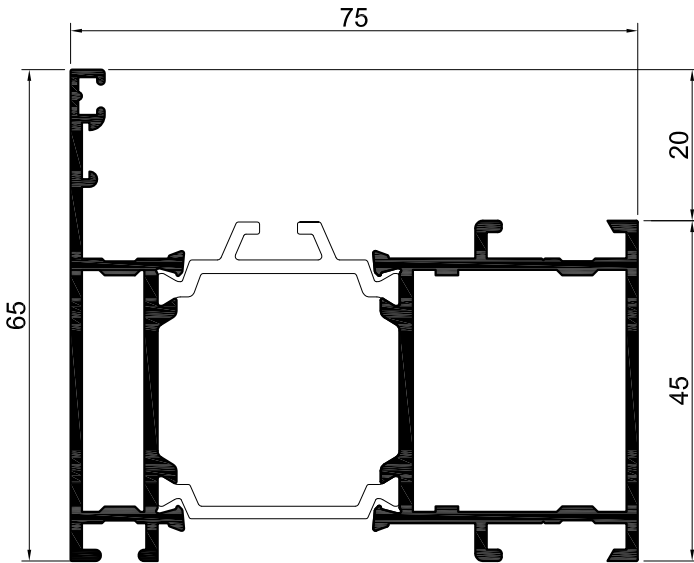
SPW61213
Outer Frame

Outer Frame

ALUMINIUM INNER	SPW613
ALUMINIUM OUTER	SPW612
EXTERNAL PERIMETER INNER	196mm
INTERNAL PERIMETER INNER	102mm
EXTERNAL PERIMETER OUTER	200mm
INTERNAL PERIMETER OUTER	59mm
OVERALL EXTERNAL PERIMETER	395mm
POLYAMIDE UPPER	216100
POLYAMIDE LOWER	939700
	PV02A+TCRIMPS7.6
	PH01
CHEVRON	SW4CH7or CHEV7P
	SW445CT28
	SW445CT8
Ixx ←	34.3018cm ⁴
Iyy ↑	7.7189cm ⁴





EPS Insert

EPS Into Section	EPS008
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SPW64740
Heavy Duty Outer Frame

Heavy Duty Outer Frame

ALUMINIUM INNER	SPW640
ALUMINIUM OUTER	SPW647
EXTERNAL PERIMETER INNER	157mm
INTERNAL PERIMETER INNER	120mm
EXTERNAL PERIMETER OUTER	220mm
INTERNAL PERIMETER OUTER	80mm
OVERALL EXTERNAL PERIMETER	433mm
POLYAMIDE UPPER	216100
POLYAMIDE LOWER	939700
	PV02
	PH05
CHEVRON	SW4CH7or CHEV7P
	SW446CT28
	SW446CT8
Ixx ←	39.3964cm ⁴
Iyy ↑	13.9351cm ⁴

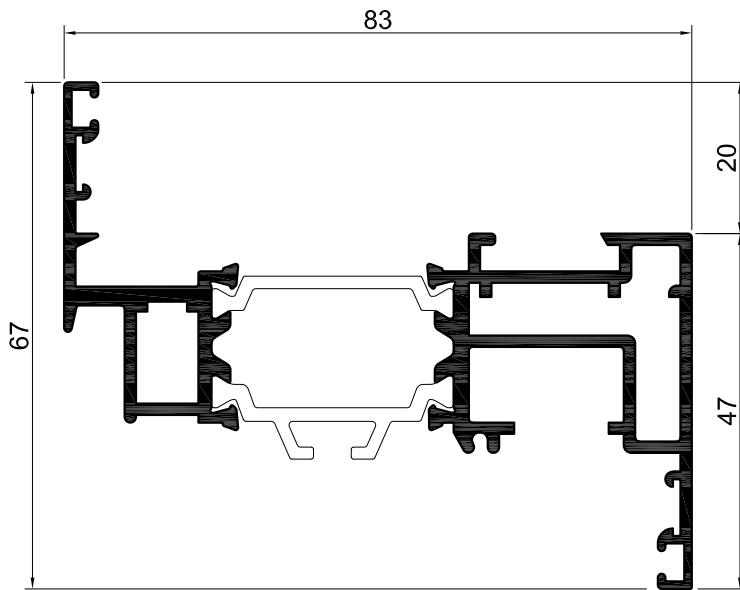
EPS Insert

EPS Into Section	EPS001
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SPW600e Inward Opening SPW600e.B.202





Section Identification

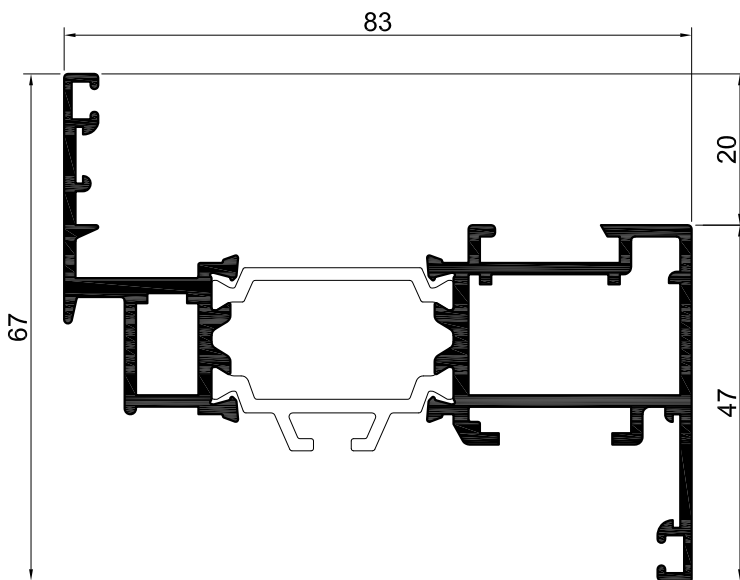
04.12



SPW60925
Vent - Concealed Gear





Vent - Concealed Gear

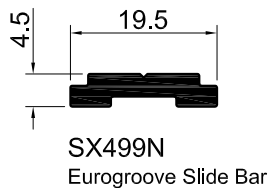
ALUMINIUM INNER	SPW625
ALUMINIUM OUTER	SPW609
EXTERNAL PERIMETER INNER	267mm
INTERNAL PERIMETER INNER	117mm
EXTERNAL PERIMETER OUTER	195mm
INTERNAL PERIMETER OUTER	44mm
OVERALL EXTERNAL PERIMETER	459mm
POLYAMIDE UPPER	939700
POLYAMIDE LOWER	216100
	PV03
	PH03
CHEVRONS	SW4CH7 CHEV7P
	SXTW212CT28
	SXTW281CT8
Ixx ←	44.7599cm ⁴
Iyy ↑	7.6130cm ⁴
EPS Insert	
EPS Into Section	EPS004



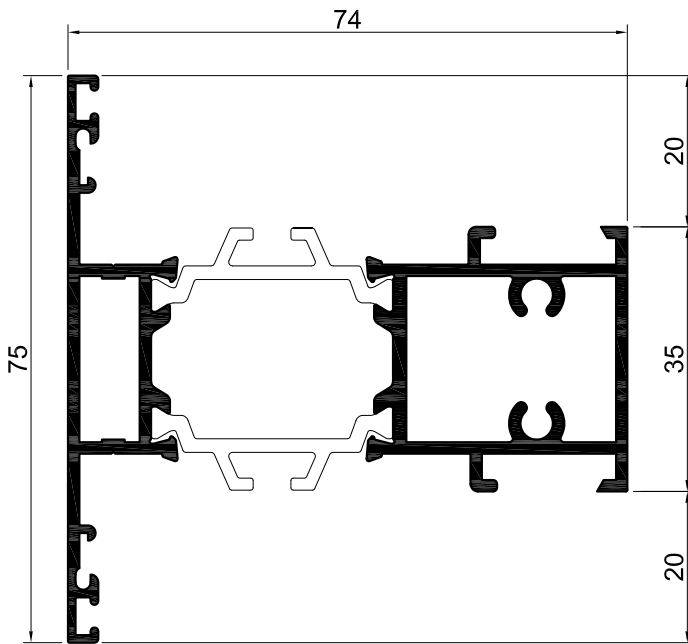
SPW60926
Vent - Slide Bar

Vent - Slide Bar

ALUMINIUM INNER	SPW626
ALUMINIUM OUTER	SPW609
EXTERNAL PERIMETER INNER	257mm
INTERNAL PERIMETER INNER	105mm
EXTERNAL PERIMETER OUTER	195mm
INTERNAL PERIMETER OUTER	44mm
OVERALL EXTERNAL PERIMETER	450mm
POLYAMIDE UPPER	939700
POLYAMIDE LOWER	216100
	PV03
	PH02b
CHEVRON OUTER	SW4CH7 CHEV7P
CHEVRON INNER	SW4CH15or CHEV15P
	SPW645CT28
	SXTW281CT8
Ixx ←	43.5012cm ⁴
Iyy ↑	7.7108cm ⁴
EPS Insert	
EPS Into Section	EPS004



SX499N
Eurogroove Slide Bar



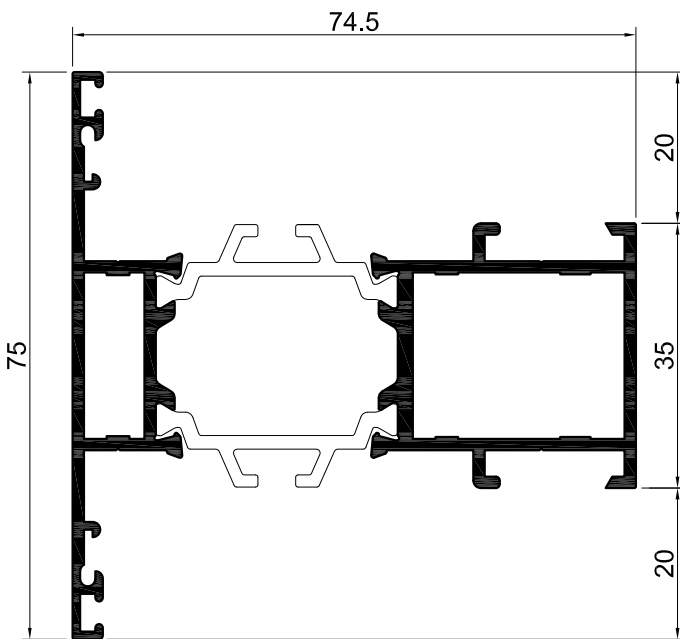
SPW61817
Transom/Mullion - Screwport

Transom/Mullion - Screwport

ALUMINIUM INNER	SPW617
ALUMINIUM OUTER	SPW618
EXTERNAL PERIMETER INNER	194mm
INTERNAL PERIMETER INNER	138mm
EXTERNAL PERIMETER OUTER	235mm
INTERNAL PERIMETER OUTER	61mm
OVERALL EXTERNAL PERIMETER	442mm
POLYAMIDE UPPER	216100
POLYAMIDE LOWER	216100
CHEVRONS	SW4CH7 CHEV7P

	SPW650CT21
Ixx ←	37.4910cm ⁴
Iyy ↑	10.2891cm ⁴







EPS Insert	
EPS Into Section	EPS008



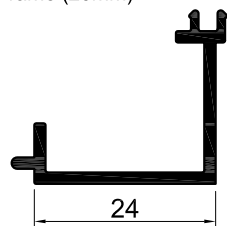
SPW61813
Transom/Mullion - Shearblock And
Curtain Wall Outer Frame (28mm)

Transom/Mullion - Shearblock

ALUMINIUM INNER	SPW613
ALUMINIUM OUTER	SPW618
EXTERNAL PERIMETER INNER	196mm
INTERNAL PERIMETER INNER	102mm
EXTERNAL PERIMETER OUTER	235mm
INTERNAL PERIMETER OUTER	61mm
OVERALL EXTERNAL PERIMETER	450mm
POLYAMIDE UPPER	216100
POLYAMIDE LOWER	216100

	PV02A+CRIMPS7.6
	PH01
CHEVRONS	SW4CH7 CHEV7P
	SW445CT28
	SW445CT8
	SPW650CT21
	SPW652CT21
Ixx ←	35.6030cm ⁴
Iyy ↑	10.1499cm ⁴

EPS Insert	
EPS Into Section	EPS008



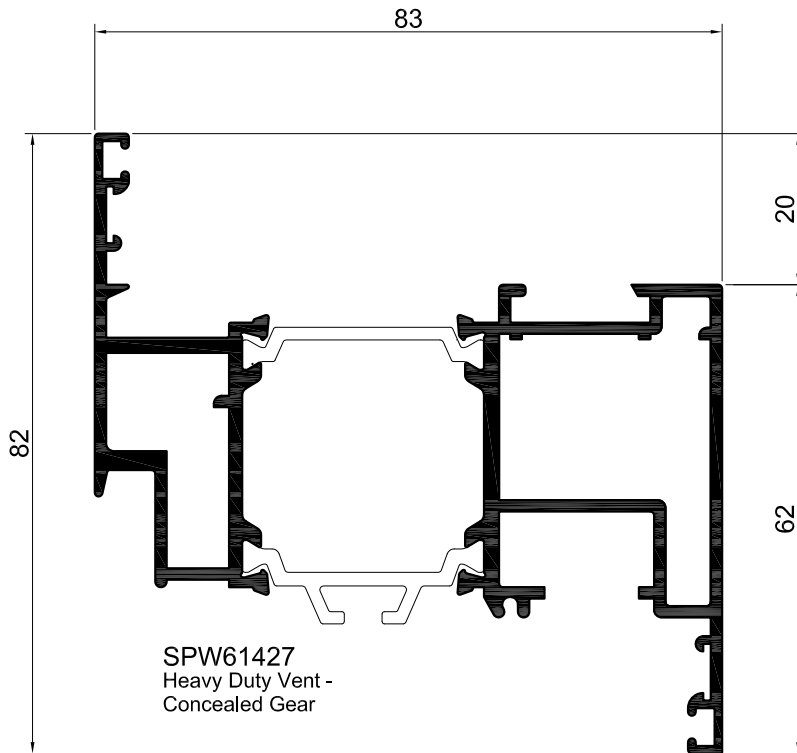
SPW695
28mm Curtain Wall Glazing Spacer

SPW600e Inward Opening





SPW600e.B.204

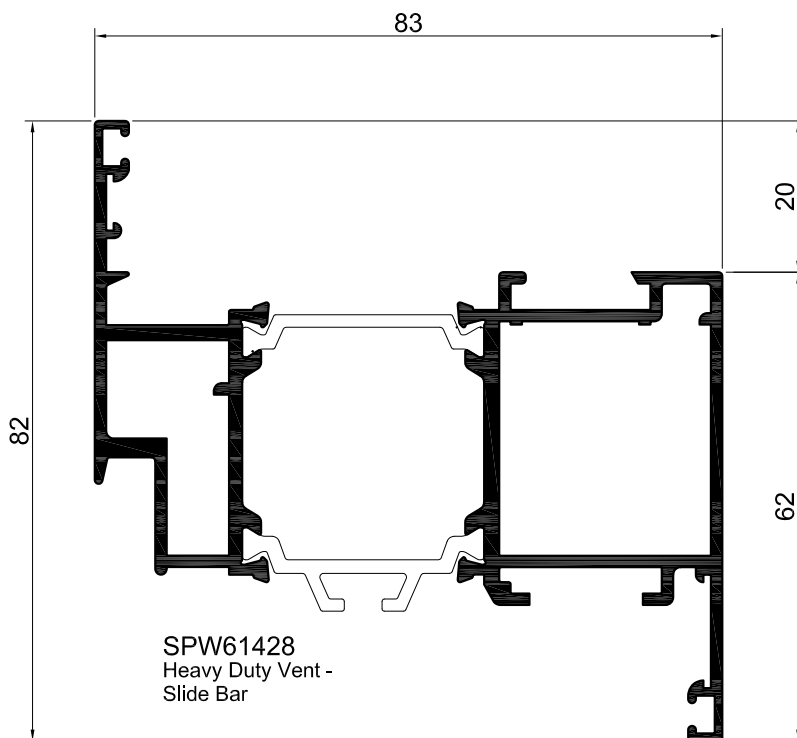
Section Identification

04.12







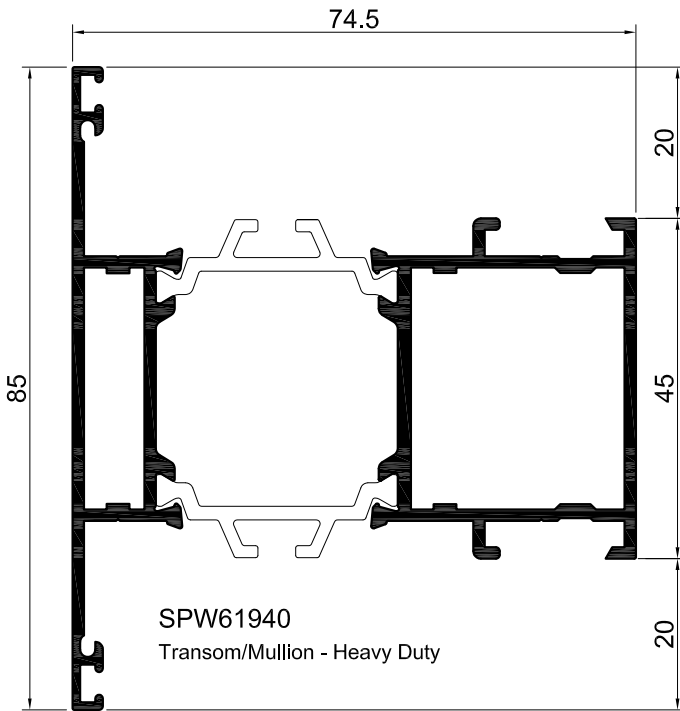
Heavy Duty Vent - Concealed Gear

ALUMINIUM INNER	SPW627
ALUMINIUM OUTER	SPW614
EXTERNAL PERIMETER INNER	297mm
INTERNAL PERIMETER INNER	142mm
EXTERNAL PERIMETER OUTER	225mm
INTERNAL PERIMETER OUTER	93mm
OVERALL EXTERNAL PERIMETER	490mm
POLYAMIDE UPPER	939700
POLYAMIDE LOWER	216100
	PV03
	PH06
CHEVRONS	SW4CH7 CHEV7P ^{or}
	SW445CT8
	SW445CT28
I_{xx} ←	56.0855cm ⁴
I_{yy} ↑	17.4174cm ⁴
EPS Insert	
EPS Into Section	EPS001



Heavy Duty Vent - Slide Bar

ALUMINIUM INNER	SPW628
ALUMINIUM OUTER	SPW614
EXTERNAL PERIMETER INNER	287mm
INTERNAL PERIMETER INNER	132mm
EXTERNAL PERIMETER OUTER	225mm
INTERNAL PERIMETER OUTER	93mm
OVERALL EXTERNAL PERIMETER	480mm
POLYAMIDE UPPER	939700
POLYAMIDE LOWER	216100
	PV03
	PH07
CHEVRONS OUTER	SW4CH7or CHEV7P
CHEVRONS INNER	SW4CH15or CHEV15P
	SW445CT8
	SW446CT28
I_{xx} ←	54.6801cm ⁴
I_{yy} ↑	17.6454cm ⁴
EPS Insert	
EPS Into Section	EPS001



Transom/Mullion - Heavy Duty

ALUMINIUM INNER	SPW640
ALUMINIUM OUTER	SPW619
EXTERNAL PERIMETER INNER	217mm
INTERNAL PERIMETER INNER	125mm
EXTERNAL PERIMETER OUTER	256mm
INTERNAL PERIMETER OUTER	83mm
OVERALL EXTERNAL PERIMETER	468mm
POLYAMIDE UPPER	216100
POLYAMIDE LOWER	216100



SW446CT8

SW446CT28



SPW650CT30

SPW652CT30

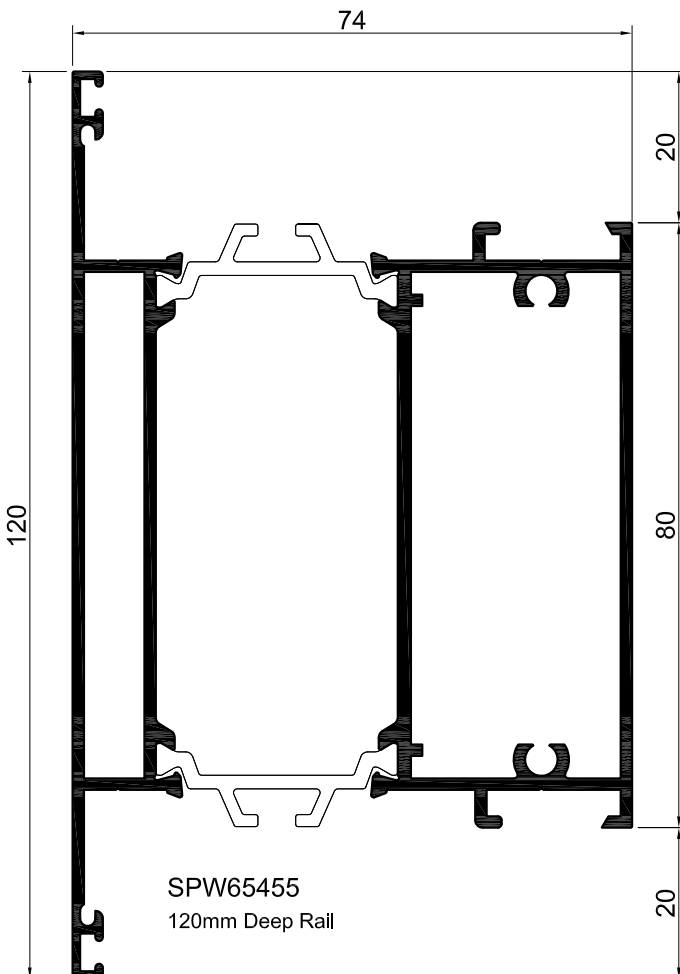
Ixx ←
Iyy ↑

40.8522cm⁴
17.1353cm⁴

EPS Insert

EPS Into Section

EPS001



120mm Deep Rail

ALUMINIUM INNER	SPW655
ALUMINIUM OUTER	SPW654
EXTERNAL PERIMETER INNER	284mm
INTERNAL PERIMETER INNER	232mm
EXTERNAL PERIMETER OUTER	325mm
INTERNAL PERIMETER OUTER	150mm
OVERALL EXTERNAL PERIMETER	535mm
POLYAMIDE UPPER	216100
POLYAMIDE LOWER	216100



SPW650CT66

SPW652CT58

Ixx ←
Iyy ↑

60.0313cm⁴
66.3946cm⁴

EPS Insert

EPS Into Section

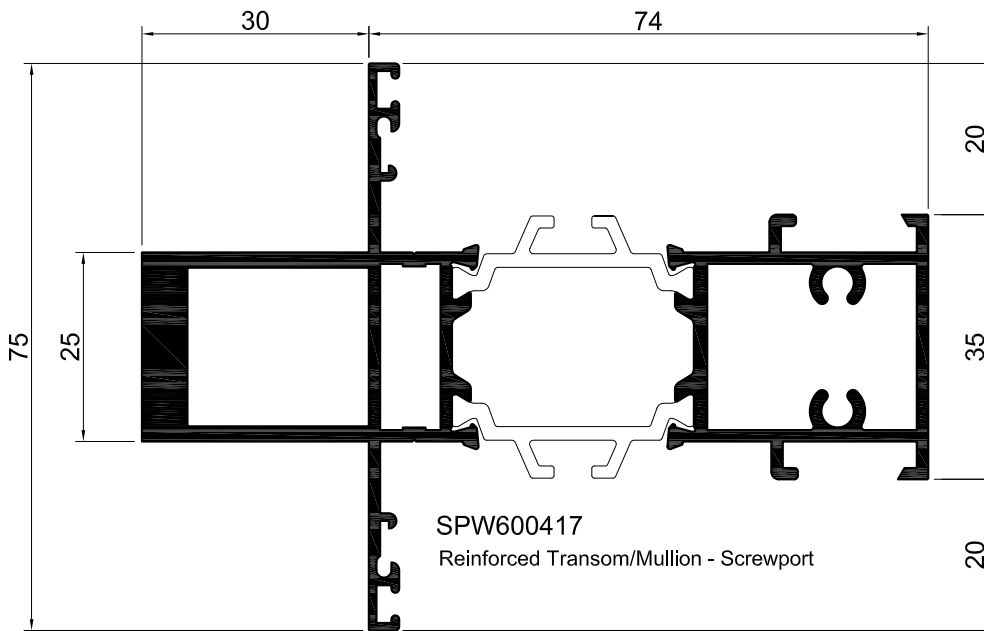
EPS008 + EPS007

SPW600e Inward Opening

SPW600e.B.206

Section Identification

04.12



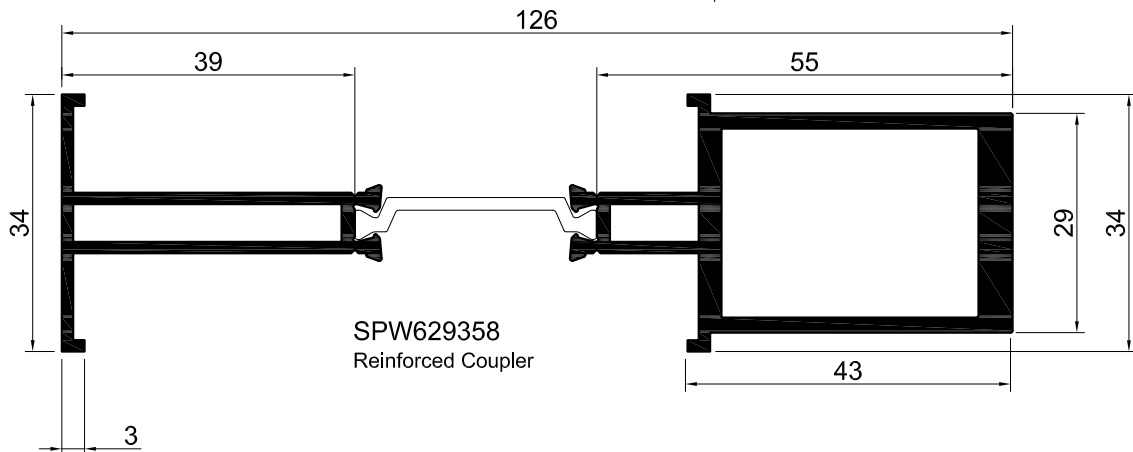
SPW600417
Reinforced Transom/Mullion - Screwport

Reinforced Mullion/Transom - Screwport

ALUMINIUM INNER	SPW617
ALUMINIUM OUTER	SPW6004
EXTERNAL PERIMETER INNER	194mm
INTERNAL PERIMETER INNER	138mm
EXTERNAL PERIMETER OUTER	320mm
INTERNAL PERIMETER OUTER	130mm
OVERALL EXTERNAL PERIMETER	527mm
POLYAMIDE UPPER	216100
POLYAMIDE LOWER	216100
CHEVRONS	SW4CH7 CHEV7P
	SPW650CT21
I_{xx} ←	89.4000cm ⁴
I_{yy} ↑	12.6295cm ⁴
EPS Insert	
EPS Into Section	EPS008

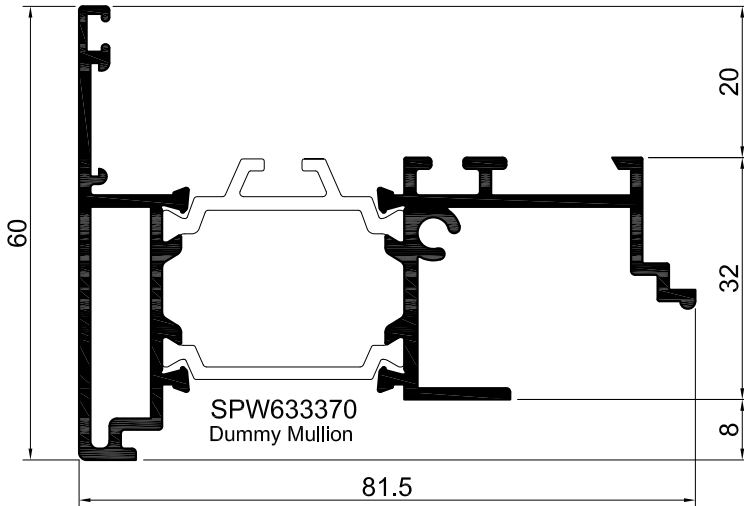
Reinforced Coupler

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_{xx} ←	113.3932cm ⁴
I_{yy} ↑	5.1255cm ⁴



SPW629358
Reinforced Coupler

Section Identification

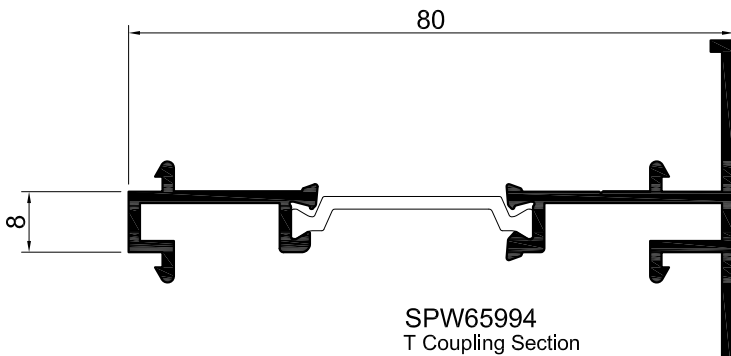


Dummy Mullion

ALUMINIUM OUTER	SPW633
ALUMINIUM INNER	SPW370
EXTERNAL PERIMETER OUTER	193mm
INTERNAL PERIMETER OUTER	79mm
EXTERNAL PERIMETER INNER	264mm
OVERALL EXTERNAL PERIMETER	443mm
POLYAMIDE UPPER	216100
POLYAMIDE LOWER	939700
Ixx ←	29.3168cm ⁴
Iyy ↑	7.6153cm ⁴

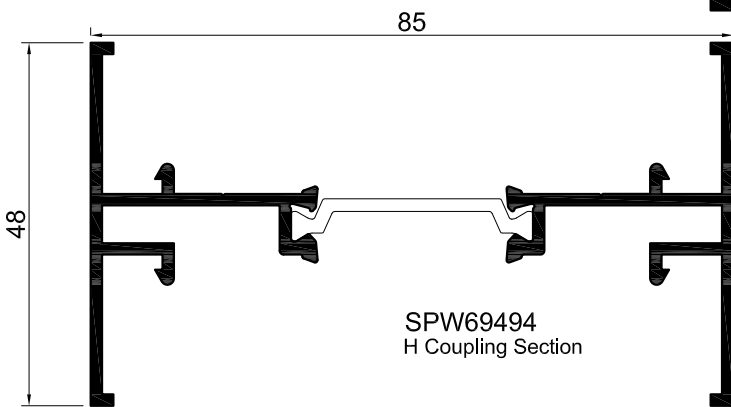
EPS Insert

EPS Into Section	EPS008
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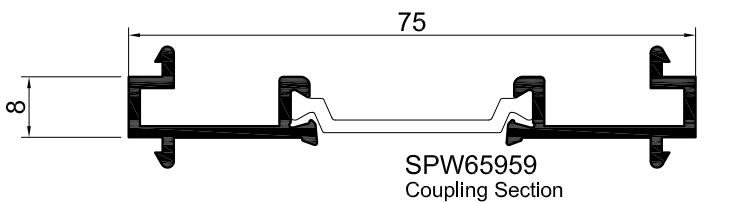
T Coupling Section

ALUMINIUM INNER	SPW694
ALUMINIUM OUTER	SPW659
EXTERNAL PERIMETER INNER	130mm
EXTERNAL PERIMETER OUTER	225mm
OVERALL EXTERNAL PERIMETER	382mm
POLYAMIDE LOWER	939700
Ixx ←	22.2960cm ⁴
Iyy ↑	1.8482cm ⁴



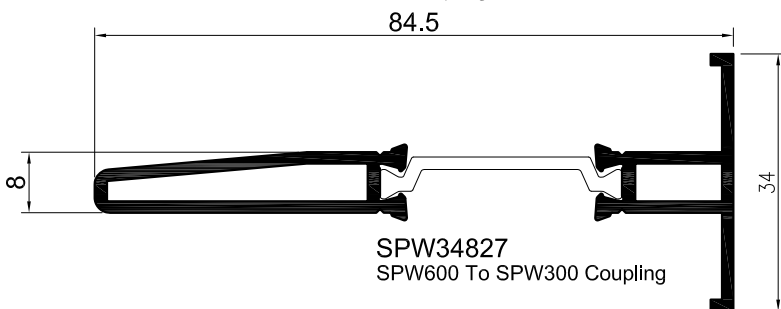
H Coupling Section

ALUMINIUM INNER	SPW694
ALUMINIUM OUTER	SPW694
EXTERNAL PERIMETER INNER	130mm
EXTERNAL PERIMETER OUTER	130mm
OVERALL EXTERNAL PERIMETER	471mm
POLYAMIDE LOWER	939700
Ixx ←	40.6309cm ⁴
Iyy ↑	3.4880cm ⁴



Coupling Section

ALUMINIUM INNER	SPW659
ALUMINIUM OUTER	SPW659
EXTERNAL PERIMETER INNER	130mm
EXTERNAL PERIMETER OUTER	130mm
OVERALL EXTERNAL PERIMETER	270mm
POLYAMIDE LOWER	939700
Ixx ←	12.8731cm ⁴
Iyy ↑	0.2103cm ⁴



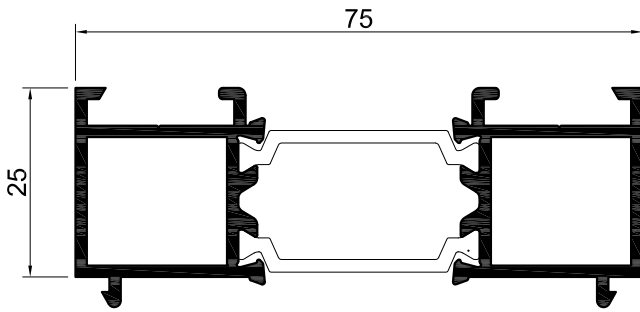
SPW600 To SPW300 Coupling

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	939700
Ixx ←	23.1173cm ⁴
Iyy ↑	0.7849cm ⁴

SPW600e Inward Opening SPW600e.B.208

Section Identification

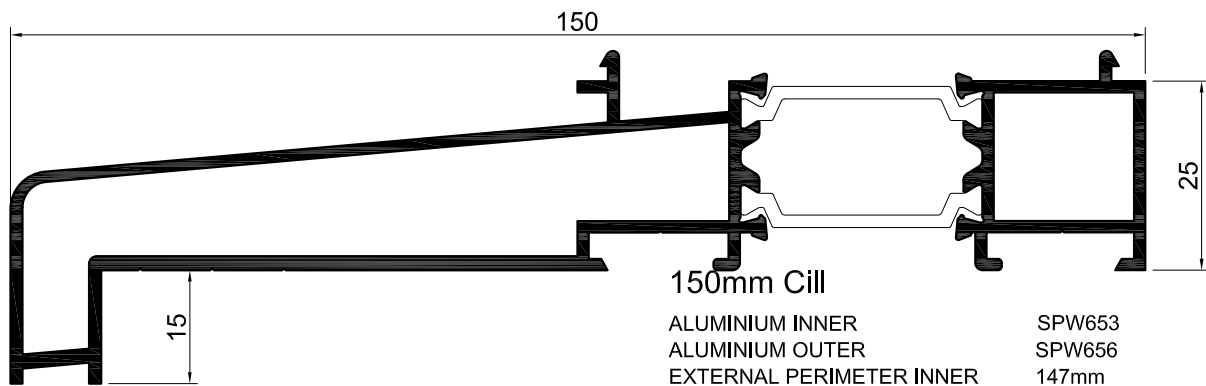
04.12



SPW65353
25mm Add-On

25mm Add-On

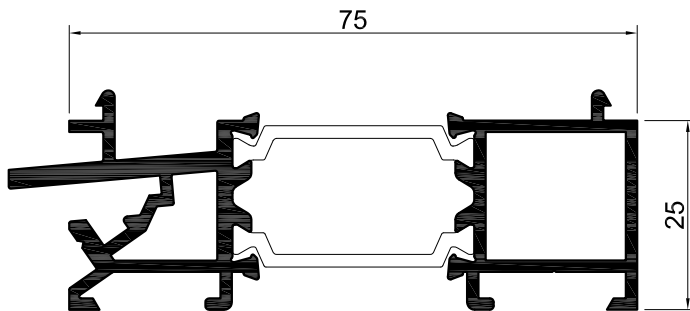
ALUMINIUM INNER	SPW653
ALUMINIUM OUTER	SPW653
EXTERNAL PERIMETER INNER	147mm
INTERNAL PERIMETER INNER	71mm
EXTERNAL PERIMETER OUTER	147mm
INTERNAL PERIMETER OUTER	71mm
OVERALL EXTERNAL PERIMETER	265mm
POLYAMIDE UPPER	939700
POLYAMIDE LOWER	939700
Ixx ←	24.4084cm ⁴
Iyy ↑	2.5396cm ⁴



SPW65653
150mm Cill

150mm Cill

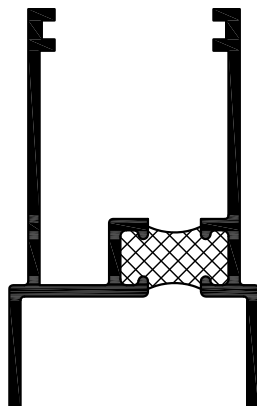
ALUMINIUM INNER	SPW653
ALUMINIUM OUTER	SPW656
EXTERNAL PERIMETER INNER	147mm
INTERNAL PERIMETER INNER	71mm
EXTERNAL PERIMETER OUTER	342mm
INTERNAL PERIMETER OUTER	238mm
OVERALL EXTERNAL PERIMETER	460mm
POLYAMIDE UPPER	939700
POLYAMIDE LOWER	939700
END CAPS	SCA201LB (Black) SCA201RB (Black) Or SCA201LW (White) SCA201RW (White)



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	939700
POLYAMIDE LOWER	939700

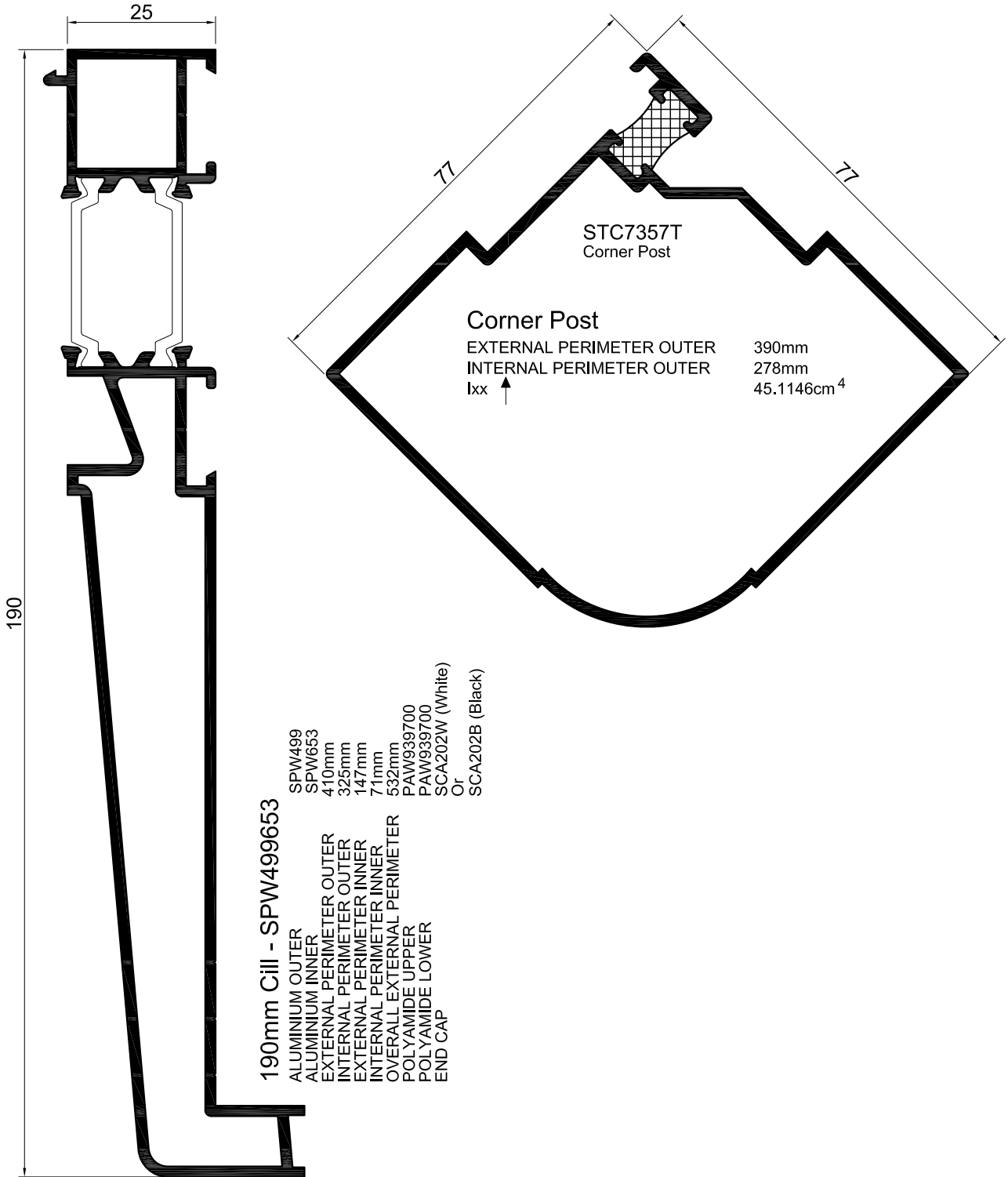


SXTW204T
28mm Vent Carrier
EXTERNAL PERIMETER 322mm

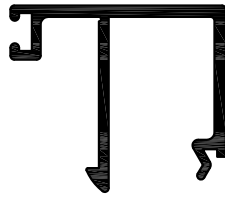
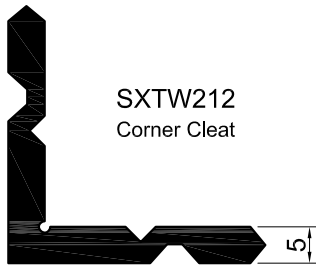
SAE25X4 Georgian Bar

EXTERNAL PERIMETER 58mm

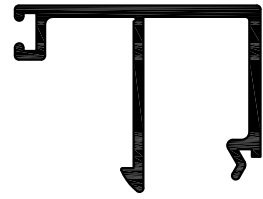




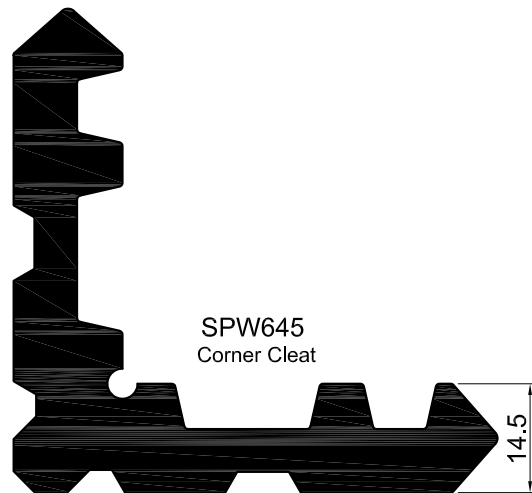
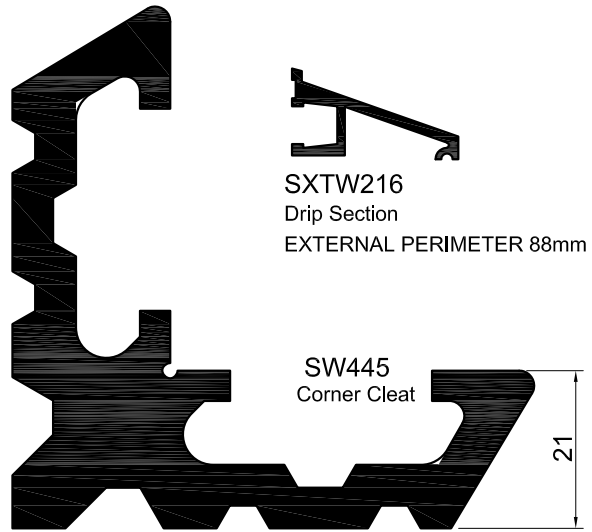
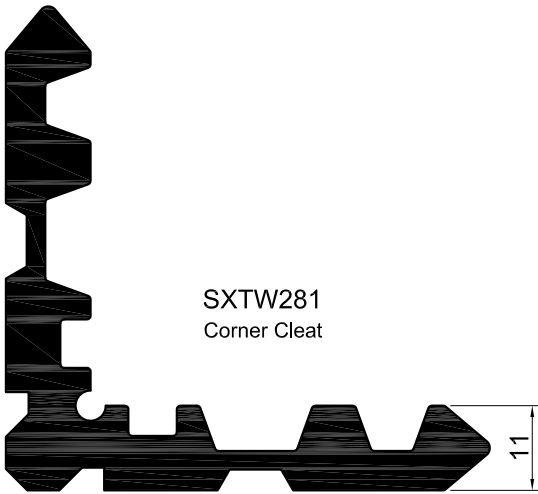
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32mm Int. Glazed Bead
EXTERNAL PERIMETER 177mm



28mm Int. Glazed Bead
EXTERNAL PERIMETER 185mm

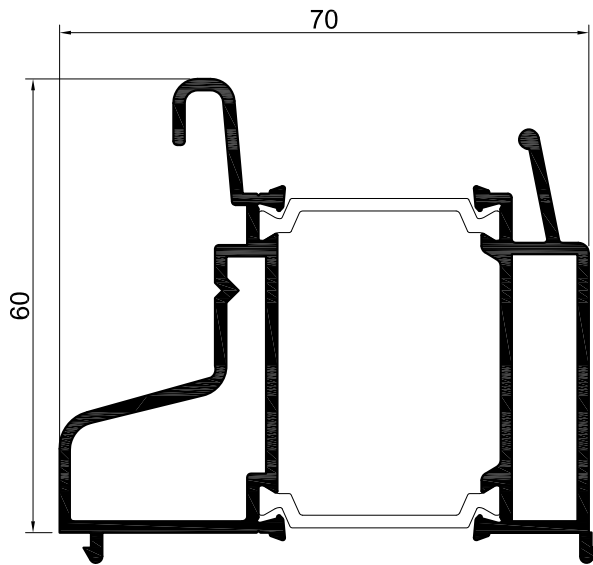


SPW600e Inward Opening

SPW600e.B.212

Section Identification

04.12

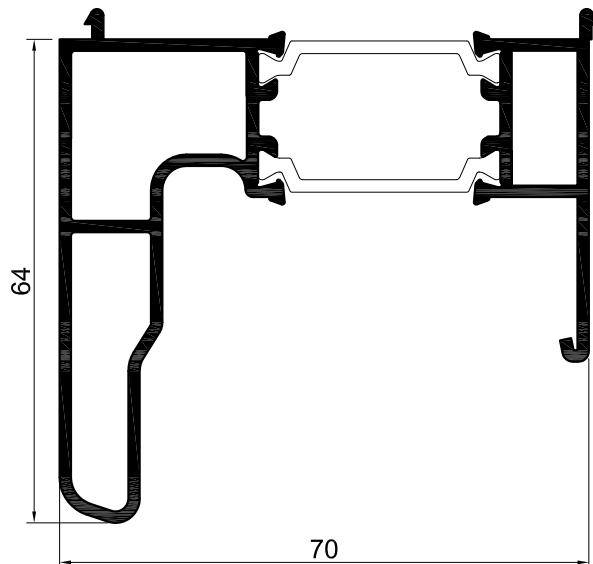


SPW67172
Kingspan
70mm Head Adaptor

Kingspan 70mm Head Adaptor

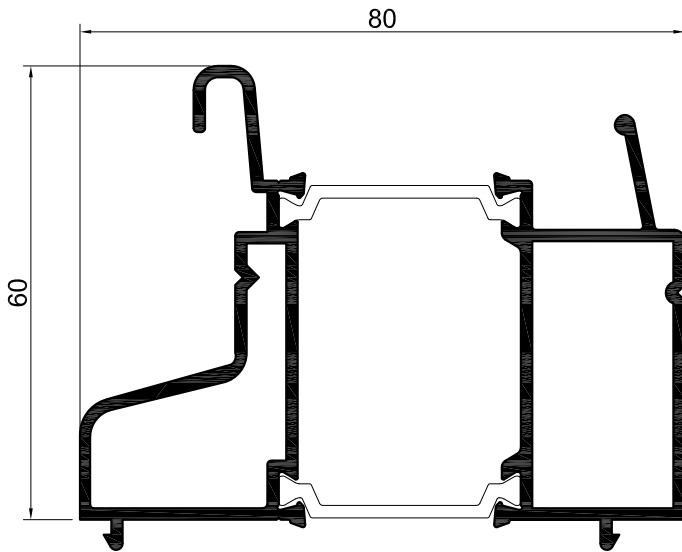
ALUMINIUM INNER	SPW672
ALUMINIUM OUTER	SPW671
EXTERNAL PERIMETER INNER	212mm
INTERNAL PERIMETER INNER	108mm
EXTERNAL PERIMETER OUTER	231mm
INTERNAL PERIMETER OUTER	112mm
OVERALL EXTERNAL PERIMETER	344mm
POLYAMIDE UPPER	939700
POLYAMIDE LOWER	939700

SPW67475
Kingspan
70mm Cill Adaptor



Kingspan 70mm Cill 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	939700
POLYAMIDE LOWER	939700

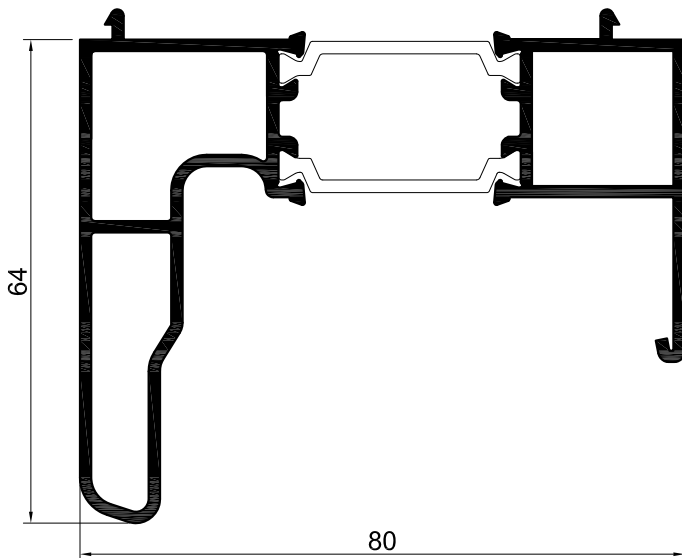


SPW67173
Kingspan
80mm Head Adaptor

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	939700
POLYAMIDE LOWER	939700

SPW67476
Kingspan
80mm Cill Adaptor



Kingspan 80mm Cill Adaptor

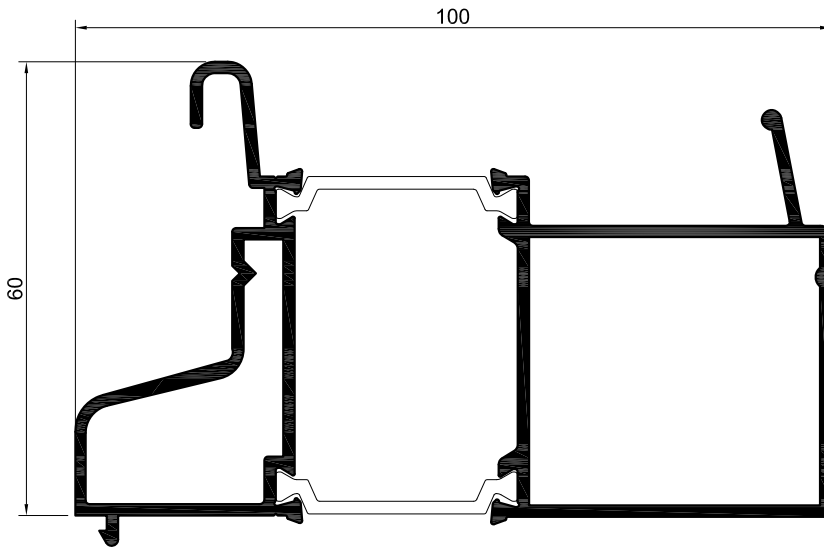
ALUMINIUM INNER	SPW676
ALUMINIUM OUTER	SPW674
EXTERNAL PERIMETER INNER	171mm
INTERNAL PERIMETER INNER	71mm
EXTERNAL PERIMETER OUTER	215mm
INTERNAL PERIMETER OUTER	181mm
OVERALL EXTERNAL PERIMETER	377mm
POLYAMIDE UPPER	939700
POLYAMIDE LOWER	939700

SPW600e Inward Opening

SPW600e.B.214

Section Identification

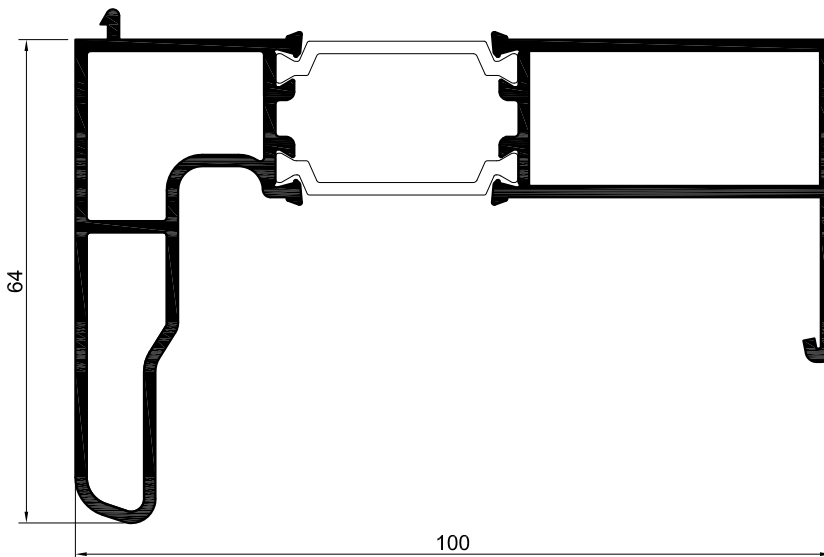
04.12



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	939700
POLYAMIDE LOWER	939700

SPW671382
Kingspan
100mm Head Adaptor



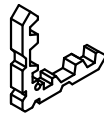
Kingspan 100mm Cill Adaptor

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	939700
POLYAMIDE LOWER	939700

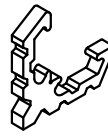
SPW674381
Kingspan
100mm Cill Adaptor



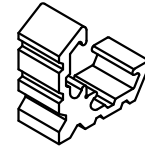
SXTW212CT28
Cut Corner Cleat



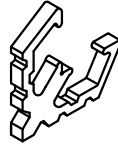
SXTW281CT8
Cut Corner Cleat



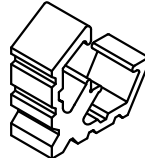
SW445CT8
Cut Corner Cleat



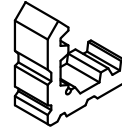
SW445CT28
Cut Corner Cleat



SW446CT8
Cut Corner Cleat



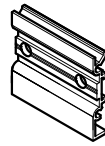
SW446CT28
Cut Corner Cleat



SPW645CT28
Cut Corner Cleat



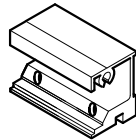
SPW650CT21
Shear Block



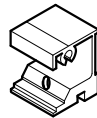
SPW650CT66
Shear Block



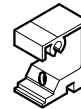
SPW650CT30
Shear Block



SPW352CT58
Shear Block



SPW352CT31
Shear Block



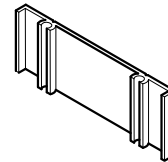
SPW352CT21
Shear Block



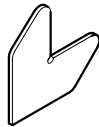
SPW677CUT
Shear Block



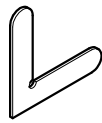
SPW678CUT
Shear Block



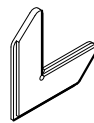
SPW679CUT
Shear Block



SW4CH15
15mm Chevron



SW4CH7
7mm Chevron



CHEV15P
15mm Chevron
Plastic



CHEV7P
7mm Corner Chevron
Plastic



SFSPS05
#10x19Lg P/Hd
S/Tapping Screw



SWTP
2Dia.x12Lg
Celloc Pin



SFSCS03
#8x12Lg Csk
S/Tapping Screw



SFSCS850
#8x50Lg Csk
S/Tapping Screw



SFSCS29
#8x12Lg Csk
S/Tapping Screw



SFSPM36
M4x5Lg M/c
Screw



SFSPS28
#8x12Lg P/Hd
S/Tapping Screw



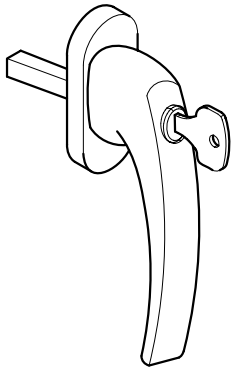
SFSGM37
M5x10Lg Grub
Screw Cone Point

SPW600e Inward Opening

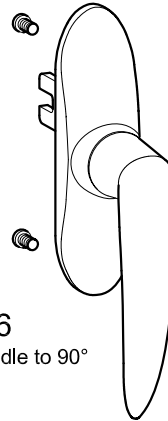
SPW600e.C.202

Accessories

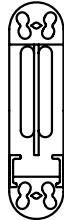
04.13



SH2HOP0660 (SILVER)
 SH2HOP0656 (BLACK)
 SH2HOP0663 (WHITE)
 Tilt & Turn
 Coloured Handles (For Winkhaus Gear)



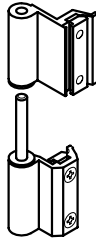
SO30000659SN
 Handle - Natural
 SO30000659SW
 Handle - White
 SO30000659SB
 Handle - Black
 SO31300659SRCYLN
 Handle Locking RH - Natural
 SO31300659SRCYLW
 Handle Locking RH - White
 SO31300659SRCYLB
 Handle Locking RH - Black
 SO31300659SLCYLN
 Handle Locking LH - Natural
 SO31300659SLCYLW
 Handle Locking LH - White
 SO31300659SLCYLB
 Handle Locking LH - Black



SO200006596
 Cover to restrict handle to 90°

FOR TILT & TURN GEARING
 SEE SECTION "E"

Open In Hinges
 Clamp On



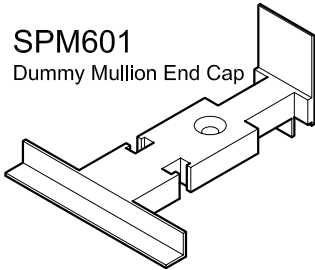
HNGOINM
 Open In Hinge Mill
 HNGOINN
 Open In Hinge SAA
 HNGOINA
 Open In Hinge Bronze
 HNGOINB
 Open In Hinge Black P/C



Limiting Device
 Restrictor

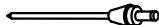
SO35140901
 For Vent Size 500-650
 SO35140902
 For Vent Size 651-1300
 SO35140903
 For Vent Size 1301-1700

SPM601
 Dummy Mullion End Cap

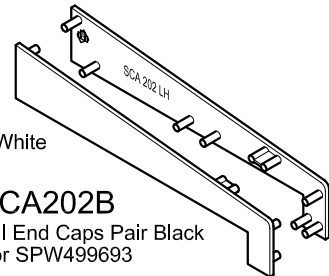


For use with section SPW60926 & SPW61428

SWWBS
 Weatherbar Stud Rivet
 for SXTW216



SCA202W
 Cill End Caps Pair White
 For SPW499693



SCA202B
 Cill End Caps Pair Black
 For SPW499693

SW4D
 Drain Hole Cover Black
 SW4DW
 Drain Hole Cover White



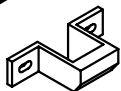
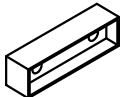
SCA201RB
 Cill End Cap RH Black
 For SPW65653

SCA201LB
 Cill End Cap LH Black
 For SPW65653

SCA201RW
 Cill End Cap RH White
 For SPW65653

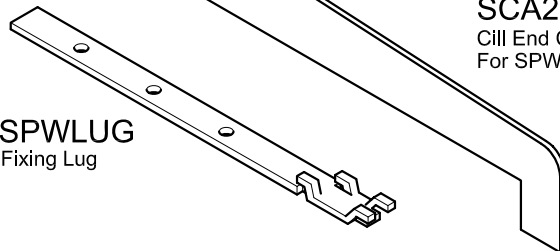
SCA201LW
 Cill End Cap LH White
 For SPW65653

SWFCP
 5mm Nylon Packer
 for SWFC to Vent

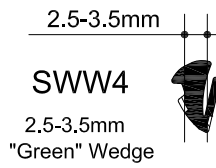
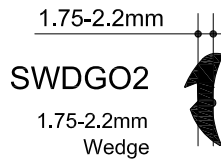
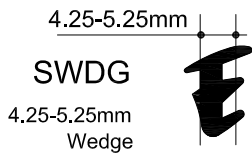


SWFC
 Finger Catch

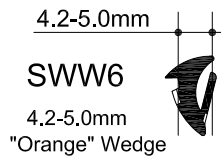
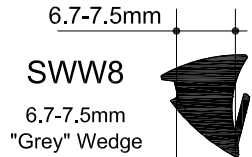
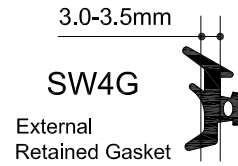
SPWLUG
 Fixing Lug



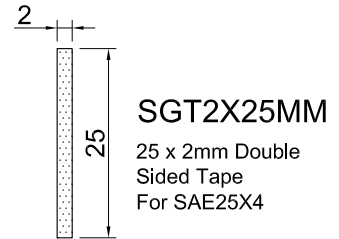
Wedge Gaskets



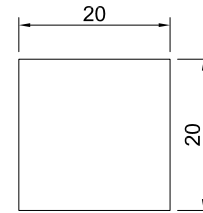
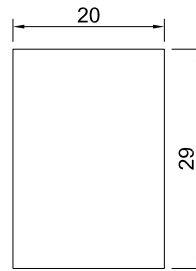
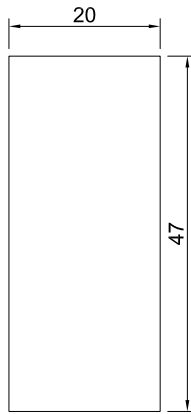
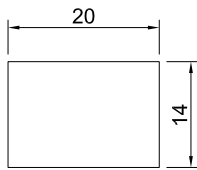
Captive Gasket



Plant on Georgian Bar



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



'Glazed In' SPW600 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
44.0	52.0	†SW462	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

SPW600e Inward Opening SPW600e.C.204

Accessories

04.12

SO20110 (see page SPW600e.D.217)

Base Set Kit - Fh = 600mm - 1199mm Comprising:

QTY	Supplier Code	Description	Material
2	* 20000620	BOLT	ZINC ALLOY + ST/ST
2	* 30000600	VENT RUN ON REST	SYNTHETIC MATL
2	* 30000690	SCREW	ST/ST
1	* 30000700	CONNECTION PIECE	SYNTHETIC MATL
1	* 30110610	FRAME RUN ON WEDGE	SYNTHETIC MATL
1	* 30140800	LOCKING WEDGE	ZINC ALLOY
1	* 30140810	BOLT WEDGE	ZINC ALLOY

* Not available seperately, unless noted otherwise.

SG30000100

Connection Rods - Fh = 600mm - 700mm

SG30000150

Connection Rods - Fh = 701mm - 800mm

SG30000200

Connection Rods - Fh = 801mm - 900mm

SG30000250

Connection Rods - Fh = 901mm - 1000mm

SG30000300

Connection Rods - Fh = 1001mm - 1100mm

SG30000350

Connection Rods - Fh = 1101mm - 1200mm

SG30000400

Connection Rods - Fh = 1201mm - 1300mm

SG30000100 + SG30000365

Connection Rods - Fh = 1301mm - 1400mm

SG30000150 + SG30000365

Connection Rods - Fh = 1401mm - 1500mm

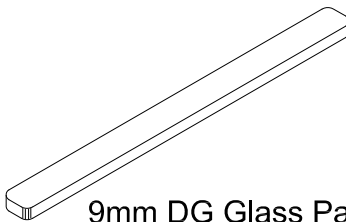
SO30140800

Additional Centre Locking Wedge - Fh = 1200mm - 1500mm

SO4408B (see page SPW600e.D.218)

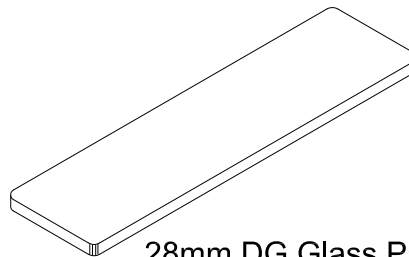
Base Set For French Window Locking Comprising:

QTY	Supplier Code	Description	Material
1	908-401	lock	zinc alloy
1	908-402B	handle	zinc alloy
2	908-405	washer	steel zinc plated
2	4200-322	bolt	zinc alloy
2	M5x10	screw	stainless steel
1	M4x35	screw	stainless steel
1	4000-303	run on rest	plastic
2	4408-182	wedge	zinc alloy



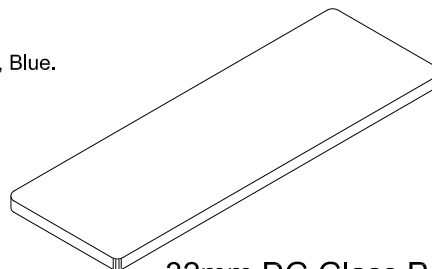
9mm DG Glass Packs

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



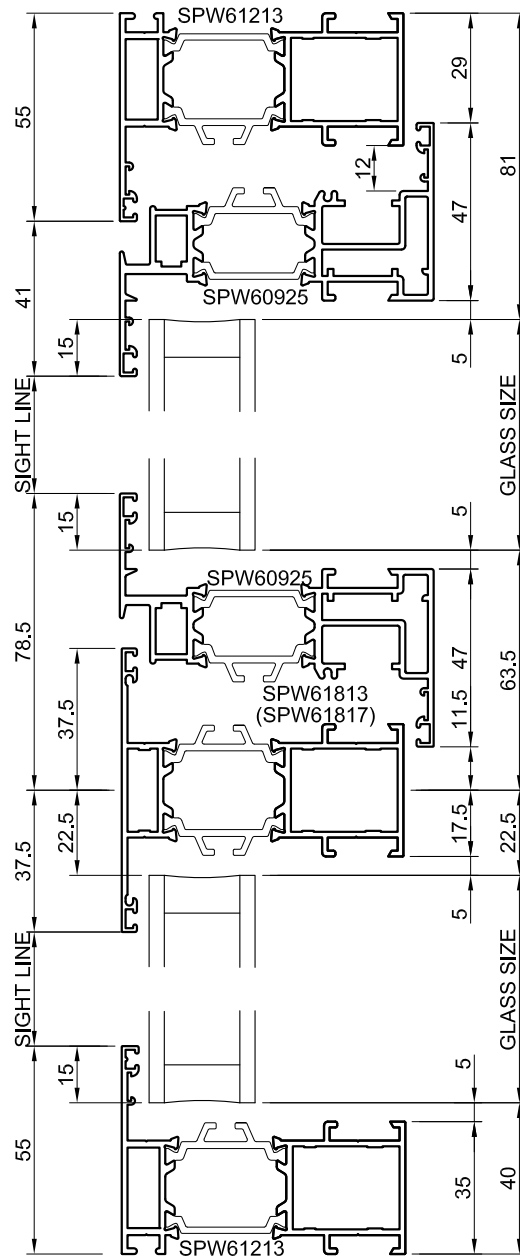
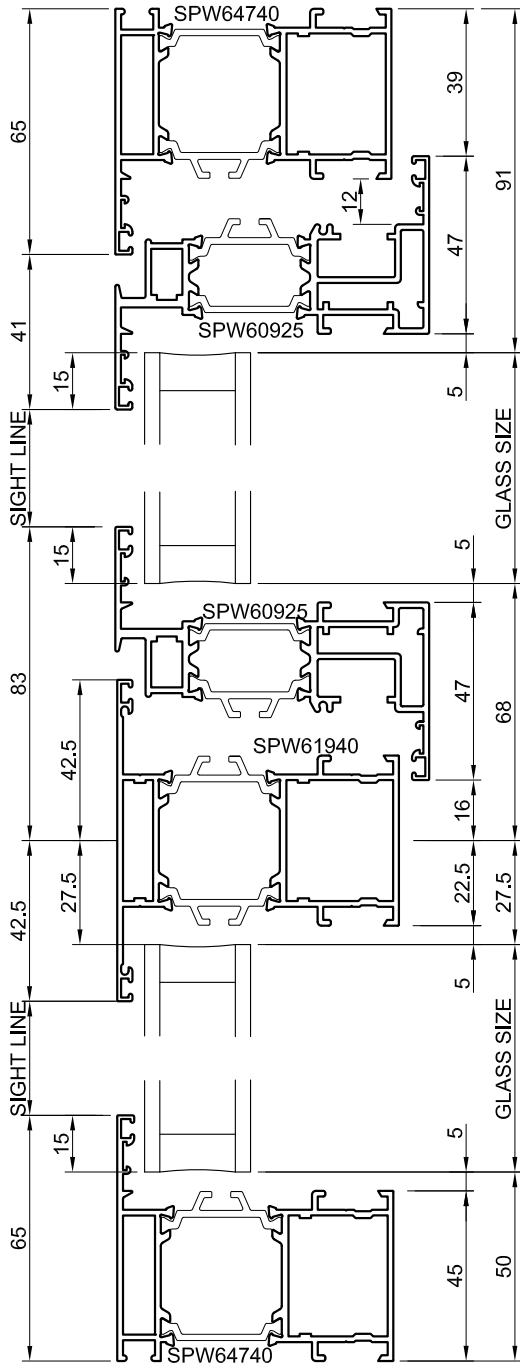
28mm DG Glass Packs

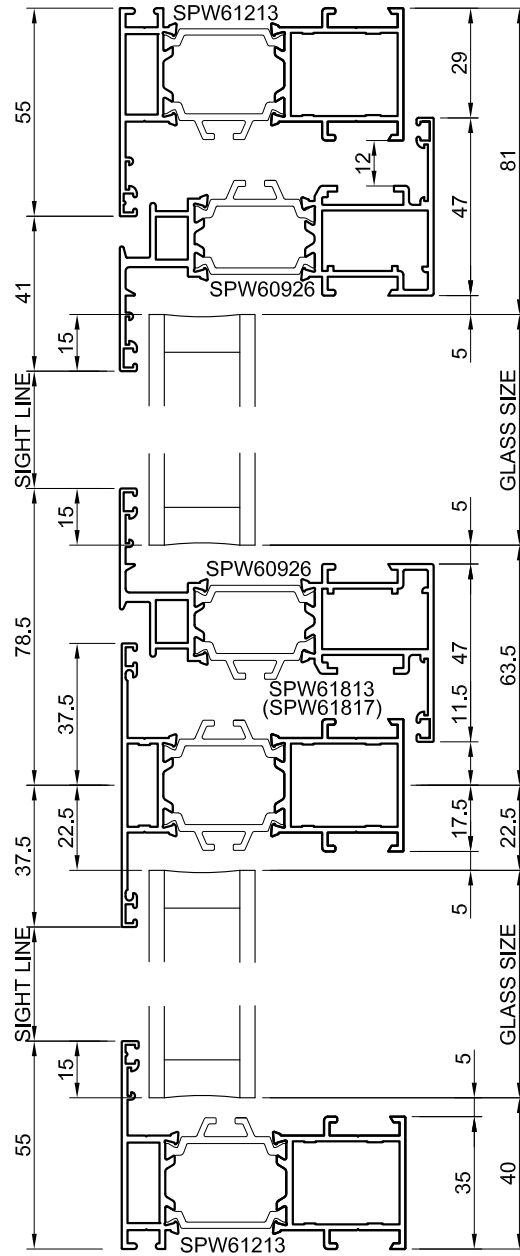
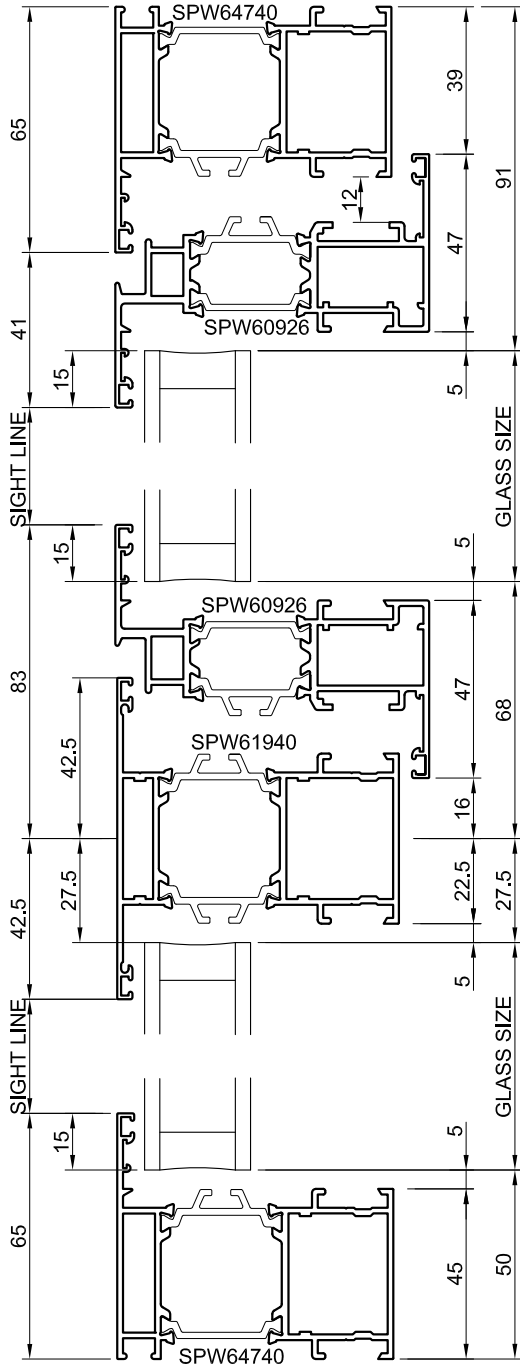
SGP28x1mm 28mm x 100mm DG Glass Packer @ 1mm thick, Green.
 SGP28x2mm 28mm x 100mm DG Glass Packer @ 2mm thick, Black.
 SGP28x3mm 28mm x 100mm DG Glass Packer @ 3mm thick, White.
 SGP28x4mm 28mm x 100mm DG Glass Packer @ 4mm thick, Grey.
 SGP28x5mm 28mm x 100mm DG Glass Packer @ 5mm thick, Blue.
 SGP28x6mm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

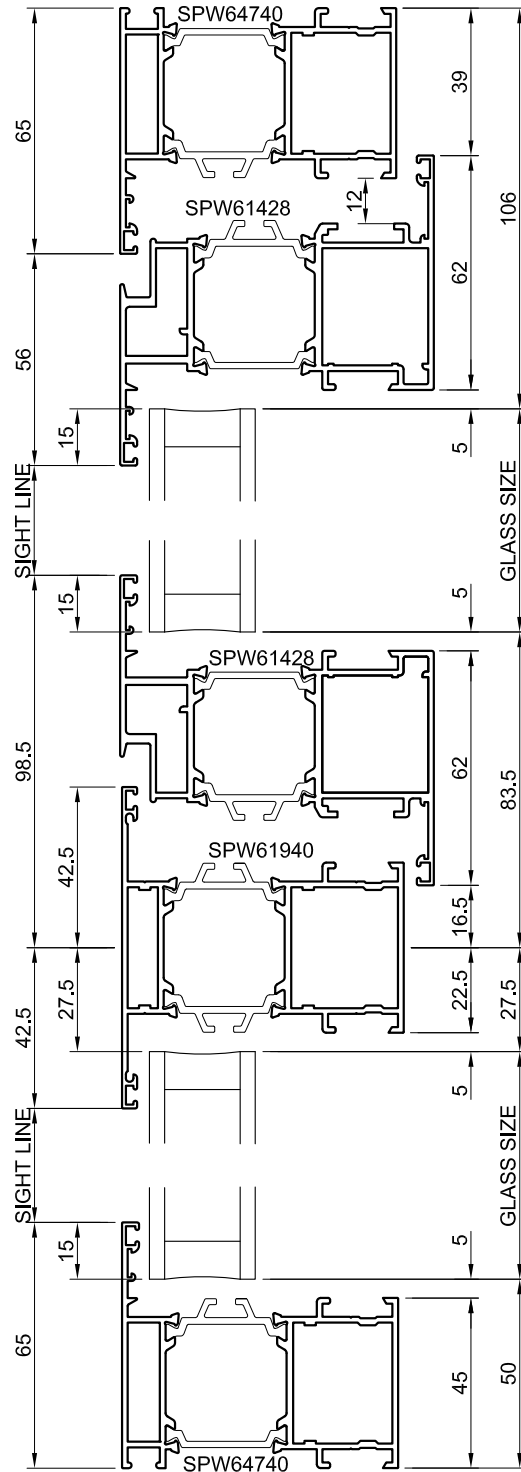
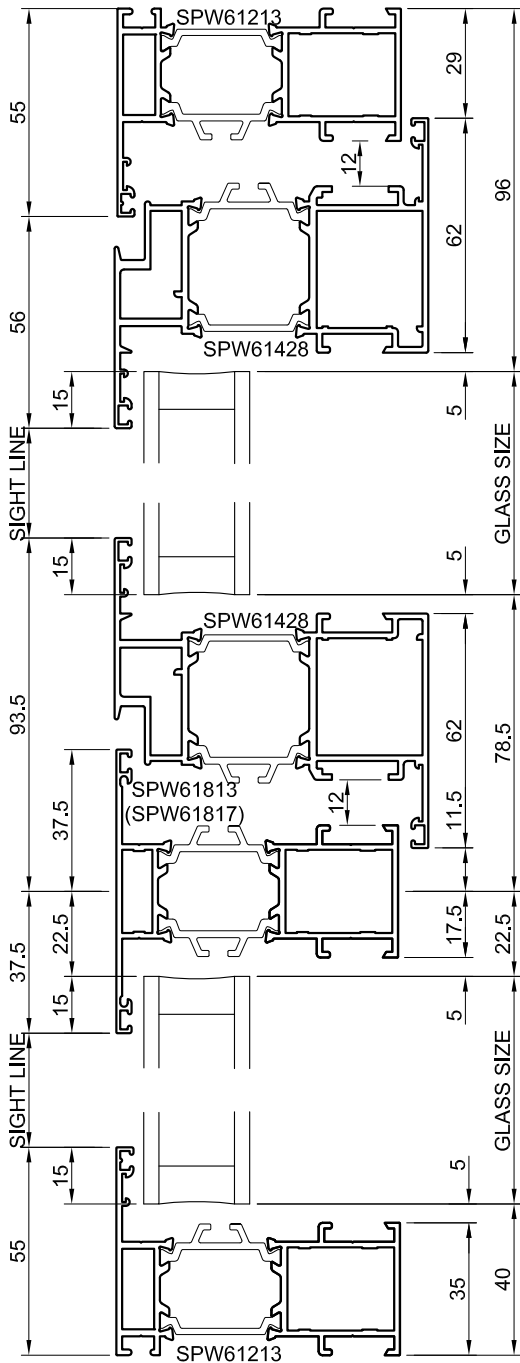


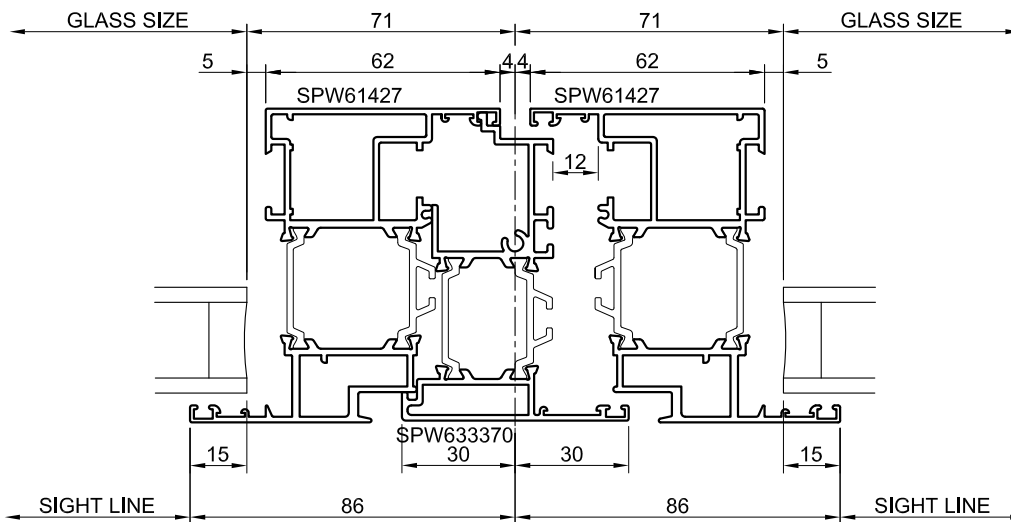
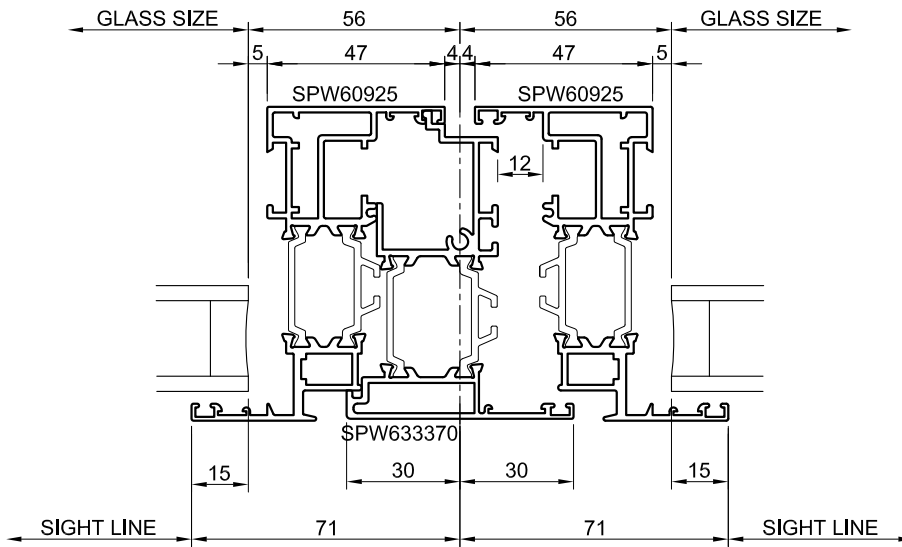


SPW600e Inward Opening SPW600e.D.204

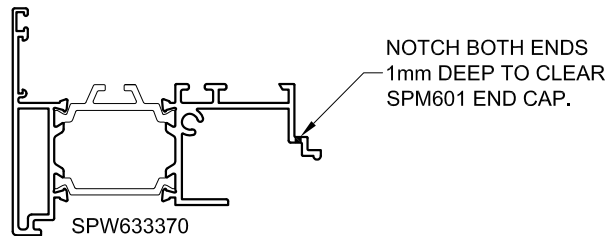
Deductions - Frame And Glass
Heavy Duty Vent - Slide Bar

04.12

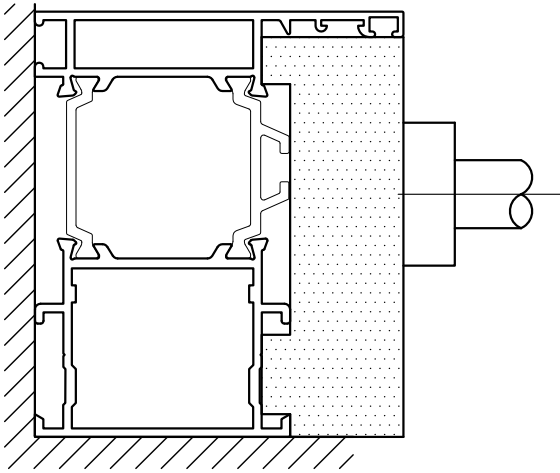




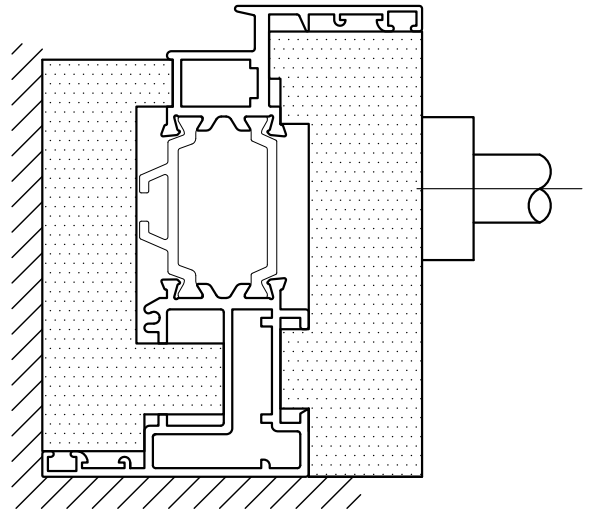
CUT DUMMY MULLION SASH HEIGHT - 56mm (28mm TOP AND BOTTOM)
 FIX DUMMY MULLION TO SASH USING SFSCS0850 No8 x 50LG C'SK SCREW @ 150mm CRS.
 FIX END CAP SPM601 TO DUMMY MULLION USING SFSCS0819 No8 x 19LG C'SK SCREW



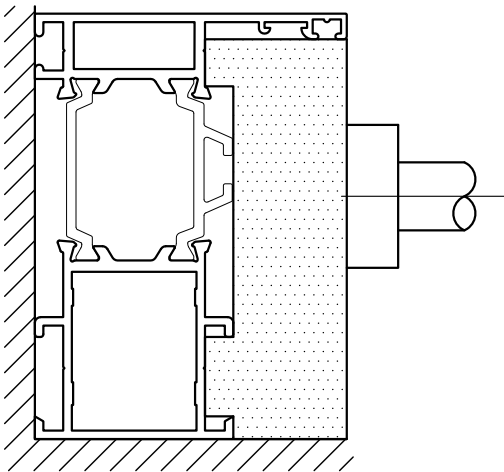
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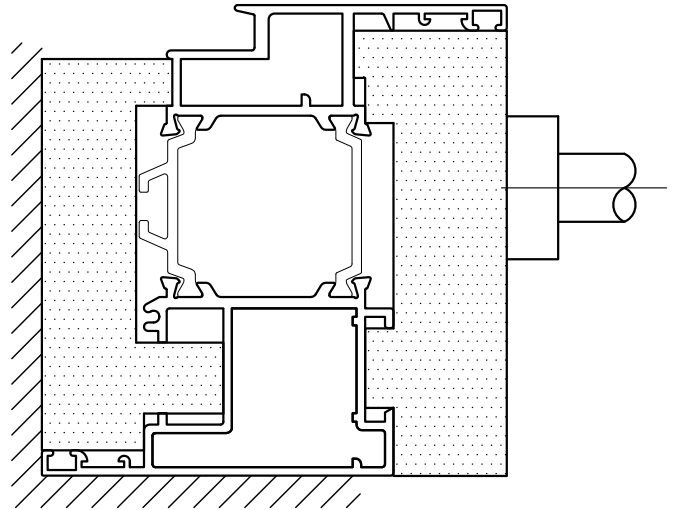
SPW64740
HEAVY DUTY OUTER FRAME



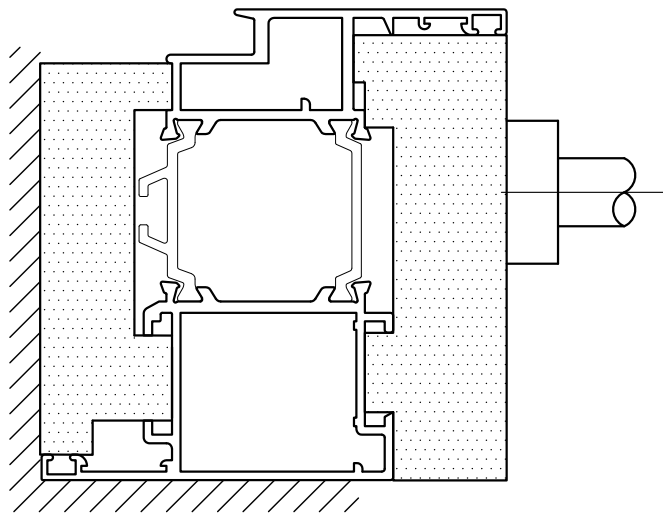
SPW60925
VENT CONCEALED



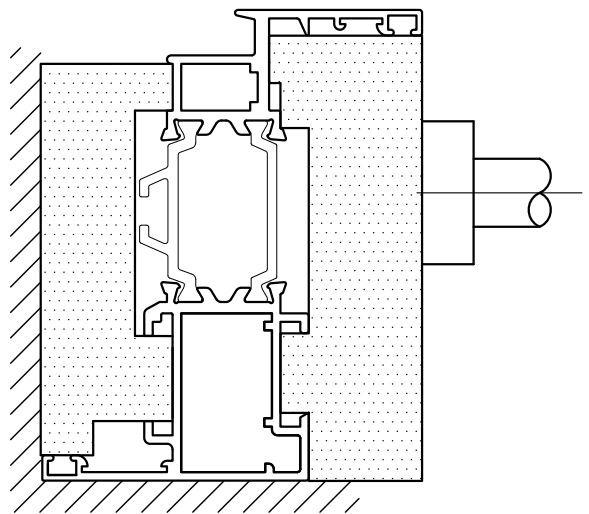
SPW61213
OUTER FRAME



SPW61427
VENT CONCEALED HEAVY DUTY



SPW61428
VENT SLIDE ROD HEAVY DUTY

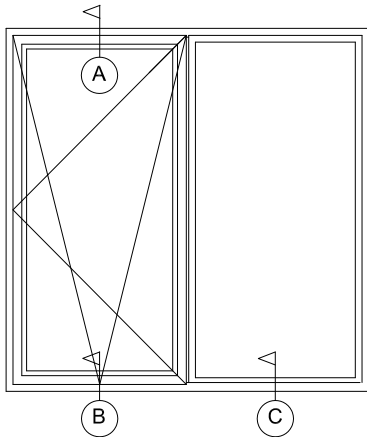


SPW60926
VENT SLIDE BAR

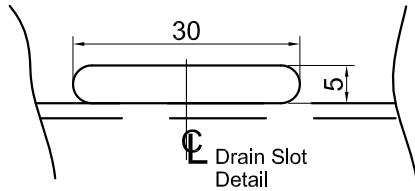
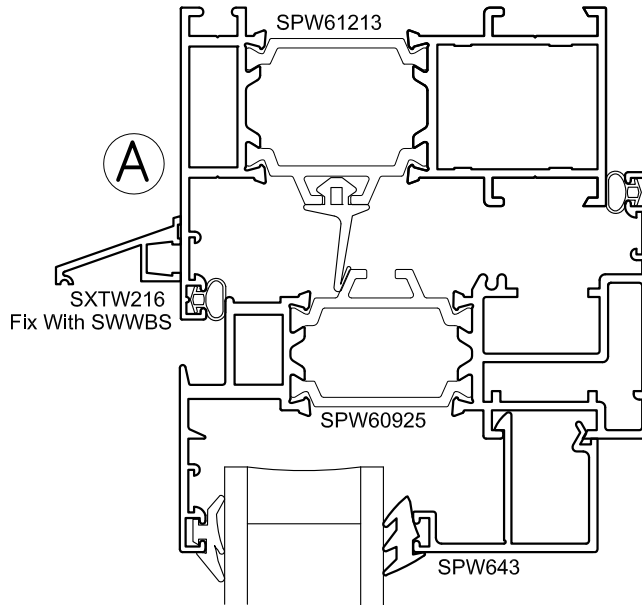
SPW600e Inward Opening SPW600e.D.208

Drainage

04.12

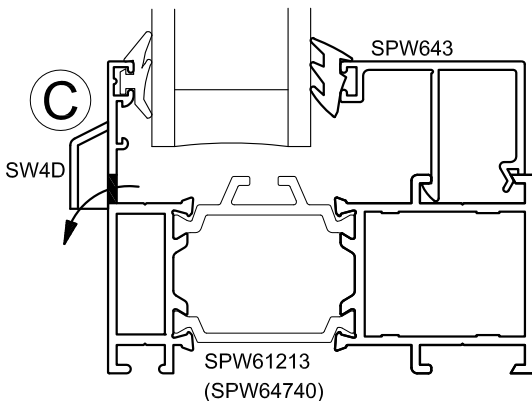
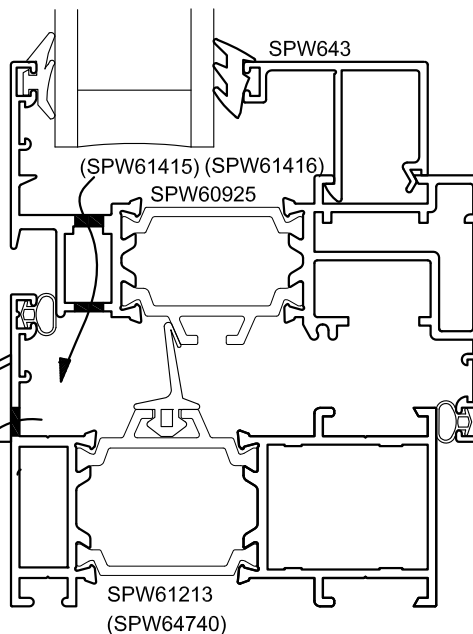


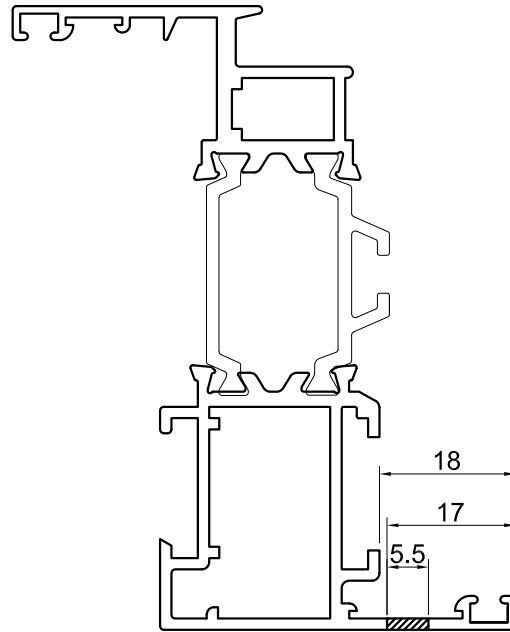
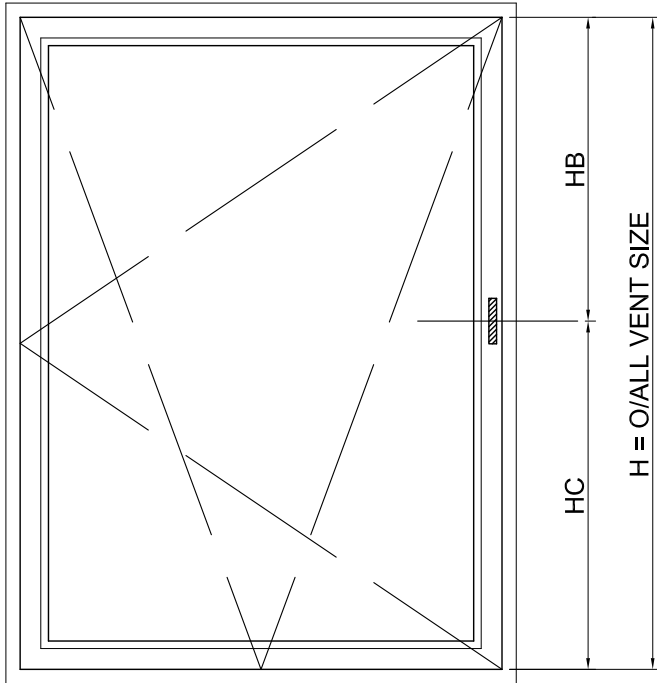
Typical Outside Elevation



MACHINE DRAINAGE SLOTS 65mm FROM CORNER OF GLAZING APERTURE AT A MINIMUM OF 600mm CENTRES
REMOVE WEATHERSEAL LOCALLY TO DRAIN SLOT.

DETAIL SIMILAR FOR LINK ROD SASHES AND HEAVY DUTY FRAME SECTIONS. SEE ALSO DRAIN CILL SPW600e.G.207



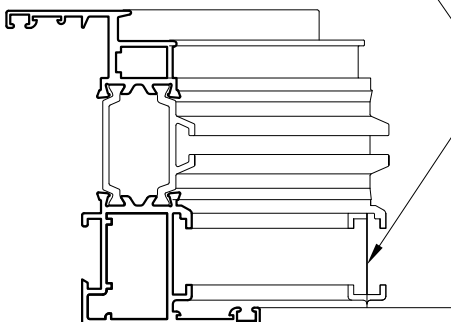
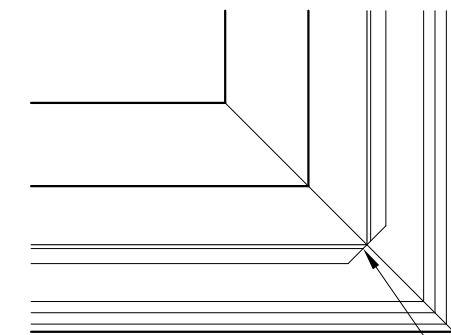


SPW60926(SPW61428)

This Window is LEFT HAND HUNG view from INSIDE

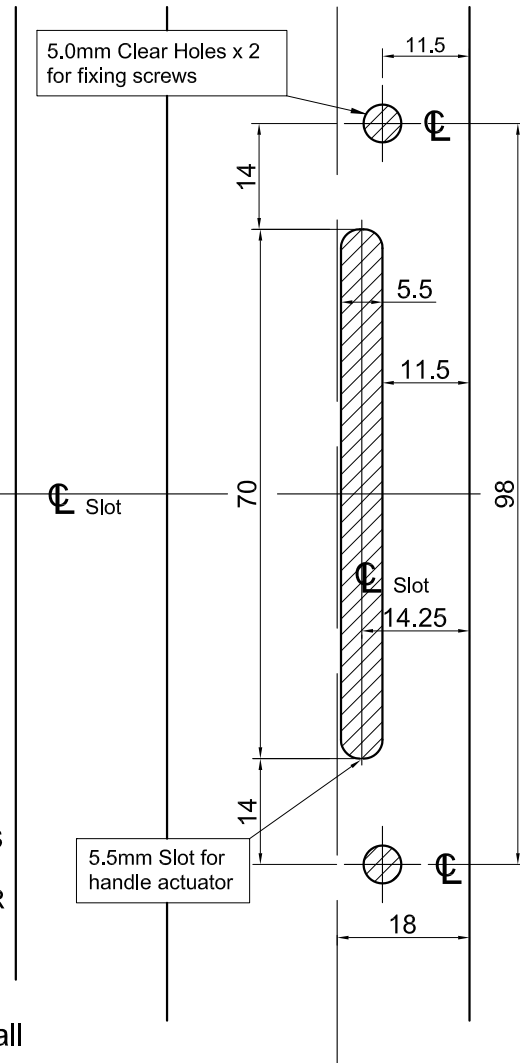
Detail similar for most slide bar hardware.
Refer to separate Manufacturers Data Sheet for assembly of hardware.

Refer to manual section 'C' for handle part numbers and colour options (eg. SO30000659SN)



TRIM GROOVE AT MITRES TO CLEAR ACCESS FOR HARDWARE BEFORE OR AFTER CRIMPING.

To Overall Vent Frame

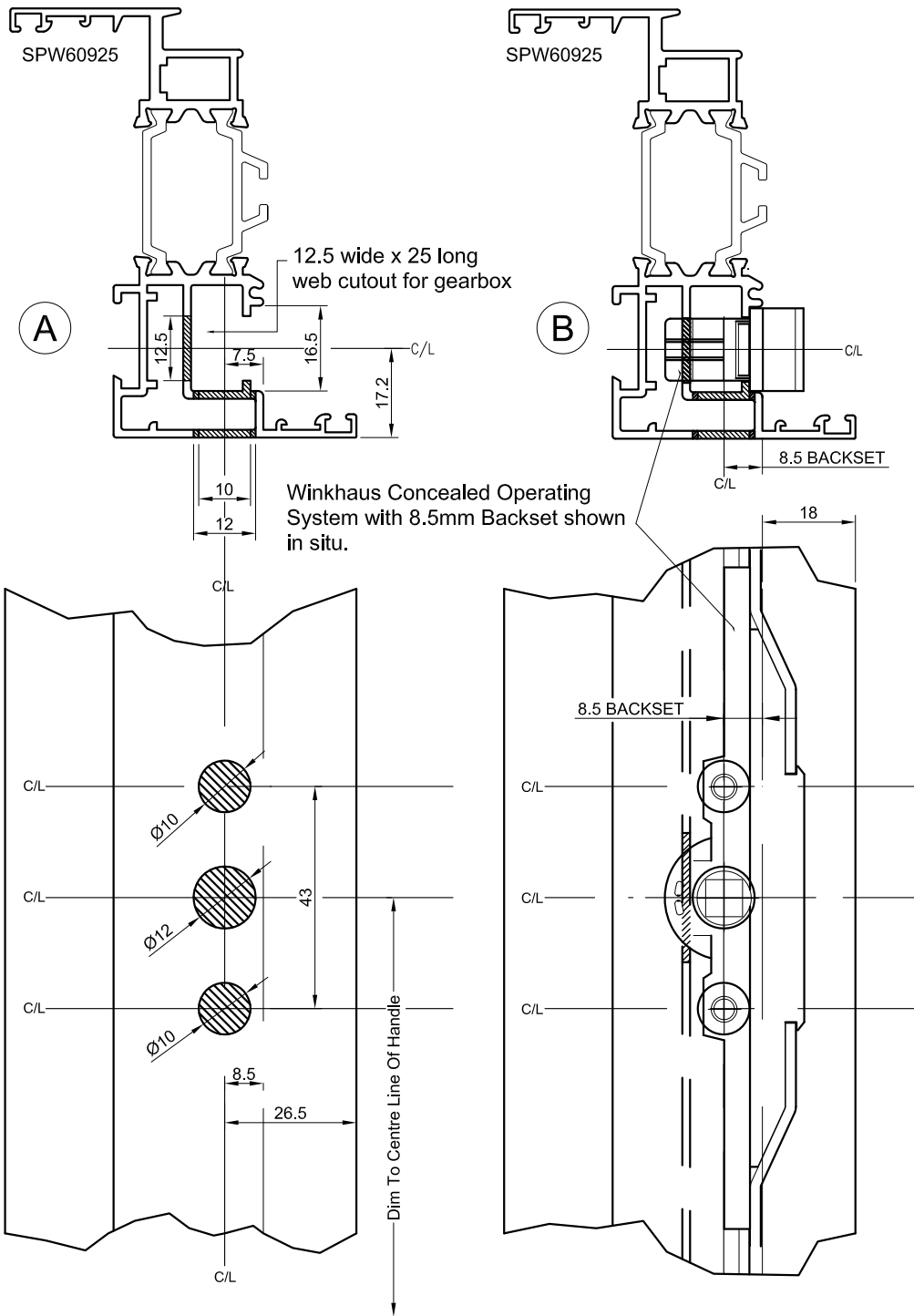


SPW600e Inward Opening SPW600e.D.210

Concealed Vent - Handle & Gearbox Preparation (Winkhaus)

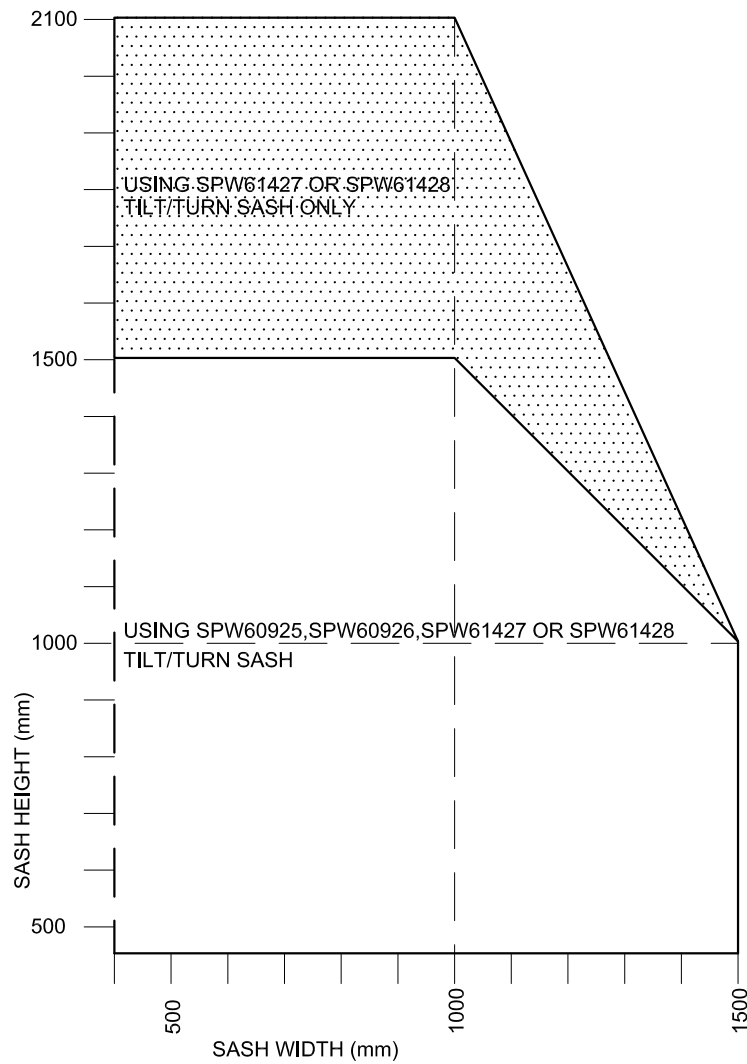
04.12

Detail For Handles: SH2HOP0660 (Silver)
SH2HOP0662 (Black)
SH2HOP0663 (White)



Handle Drilling

Gearbox Location

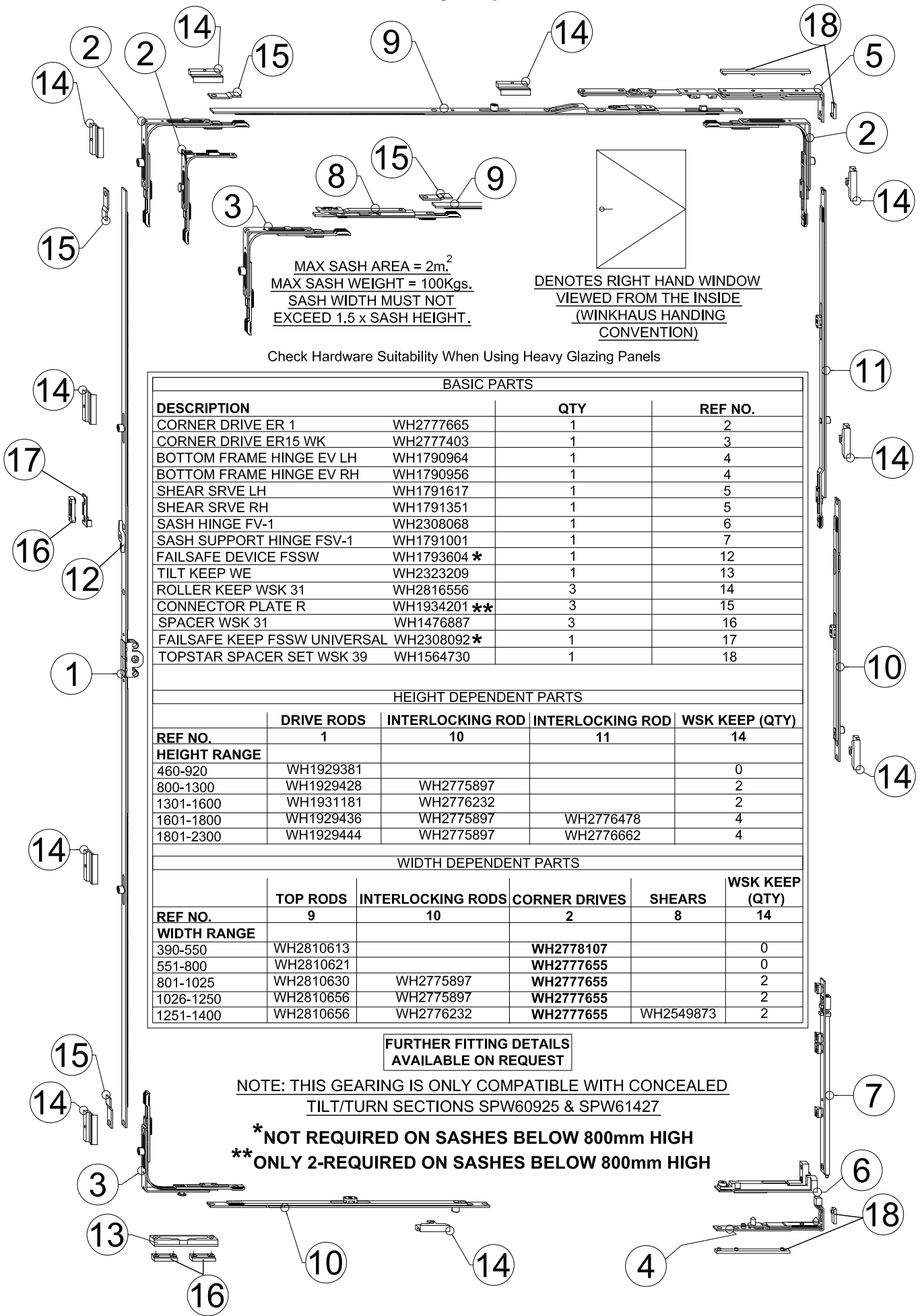


Refer Also To Hardware Manufacturers Limitations

SPW600e Inward Opening SPW600e.D.212

Tilt Before Turn Standard Gearing Layout - WINKHAUS

04.12



MAX SASH AREA = 2m.²
 MAX SASH WEIGHT = 100Kgs.
 SASH WIDTH MUST NOT
 EXCEED 1.5 x SASH HEIGHT.

DENOTES RIGHT HAND WINDOW
 VIEWED FROM THE INSIDE
 (WINKHAUS HANDING
 CONVENTION)

Check Hardware Suitability When Using Heavy Glazing Panels

BASIC PARTS				
DESCRIPTION		QTY	REF NO.	
CORNER DRIVE ER 1	WH2777665	1	2	
CORNER DRIVE ER15 WK	WH2777403	1	3	
BOTTOM FRAME HINGE EV LH	WH1790964	1	4	
BOTTOM FRAME HINGE EV RH	WH1790956	1	4	
SHEAR SRVE LH	WH1791617	1	5	
SHEAR SRVE RH	WH1791351	1	5	
SASH HINGE FV-1	WH2308068	1	6	
SASH SUPPORT HINGE FSV-1	WH1791001	1	7	
FAILSAFE DEVICE FSSW	WH1793604 *	1	12	
TILT KEEP WE	WH2323209	1	13	
ROLLER KEEP WSK 31	WH2816556	3	14	
CONNECTOR PLATE R	WH1934201 **	3	15	
SPACER WSK 31	WH1476887	3	16	
FAILSAFE KEEP FSSW UNIVERSAL	WH2308092 *	1	17	
TOPSTAR SPACER SET WSK 39	WH1564730	1	18	

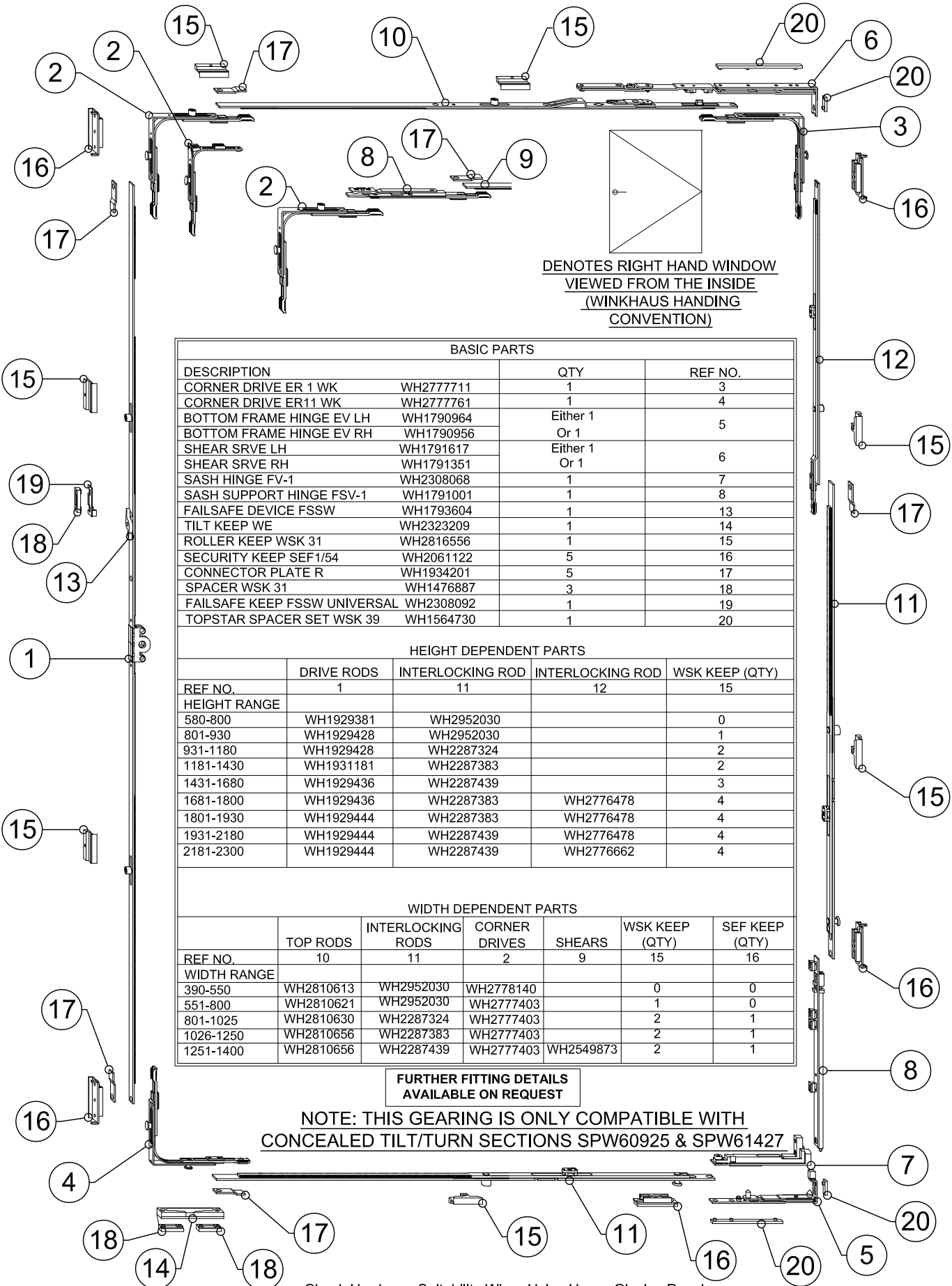
HEIGHT DEPENDENT PARTS				
REF NO.	DRIVE RODS	INTERLOCKING ROD	INTERLOCKING ROD	WSK KEEP (QTY)
	1	10	11	14
HEIGHT RANGE				
460-920	WH1929381			0
800-1300	WH1929428	WH2775897		2
1301-1600	WH1931181	WH2776232		2
1601-1800	WH1929436	WH2775897	WH2776478	4
1801-2300	WH1929444	WH2775897	WH2776662	4

WIDTH DEPENDENT PARTS					
REF NO.	TOP RODS	INTERLOCKING RODS	CORNER DRIVES	SHEARS	WSK KEEP (QTY)
	9	10	2	8	14
WIDTH RANGE					
390-550	WH2810613		WH2778107		0
551-800	WH2810621		WH2777655		0
801-1025	WH2810630	WH2775897	WH2777655		2
1026-1250	WH2810656	WH2775897	WH2777655		2
1251-1400	WH2810656	WH2776232	WH2777655	WH2549873	2

FURTHER FITTING DETAILS
 AVAILABLE ON REQUEST

NOTE: THIS GEARING IS ONLY COMPATIBLE WITH CONCEALED
 TILT/TURN SECTIONS SPW60925 & SPW61427

* NOT REQUIRED ON SASHES BELOW 800mm HIGH
 ** ONLY 2-REQUIRED ON SASHES BELOW 800mm HIGH



BASIC PARTS						
DESCRIPTION		QTY	REF NO.			
CORNER DRIVE ER 1 WK	WH2777711	1	3			
CORNER DRIVE ER11 WK	WH2777761	1	4			
BOTTOM FRAME HINGE EV LH	WH1790964	Either 1	5			
BOTTOM FRAME HINGE EV RH	WH1790956		5			
SHEAR SRVE LH	WH1791617	Either 1	6			
SHEAR SRVE RH	WH1791351		6			
SASH HINGE FV-1	WH2308068	1	7			
SASH SUPPORT HINGE FSV-1	WH1791001	1	8			
FAILSAFE DEVICE FSSW	WH1793604	1	13			
TILT KEEP WE	WH2323209	1	14			
ROLLER KEEP WSK 31	WH2816556	1	15			
SECURITY KEEP SEF1/54	WH2061122	5	16			
CONNECTOR PLATE R	WH1934201	5	17			
SPACER WSK 31	WH1476887	3	18			
FAILSAFE KEEP FSSW UNIVERSAL	WH2308092	1	19			
TOPSTAR SPACER SET WSK 39	WH1564730	1	20			

HEIGHT DEPENDENT PARTS				
REF NO.	DRIVE RODS	INTERLOCKING ROD	INTERLOCKING ROD	WSK KEEP (QTY)
	1	11	12	15
HEIGHT RANGE				
580-800	WH1929381	WH2952030		0
801-930	WH1929428	WH2952030		1
931-1180	WH1929428	WH2287324		2
1181-1430	WH1931181	WH2287383		2
1431-1680	WH1929436	WH2287439		3
1681-1800	WH1929436	WH2287383	WH2776478	4
1801-1930	WH1929444	WH2287383	WH2776478	4
1931-2180	WH1929444	WH2287439	WH2776478	4
2181-2300	WH1929444	WH2287439	WH2776662	4

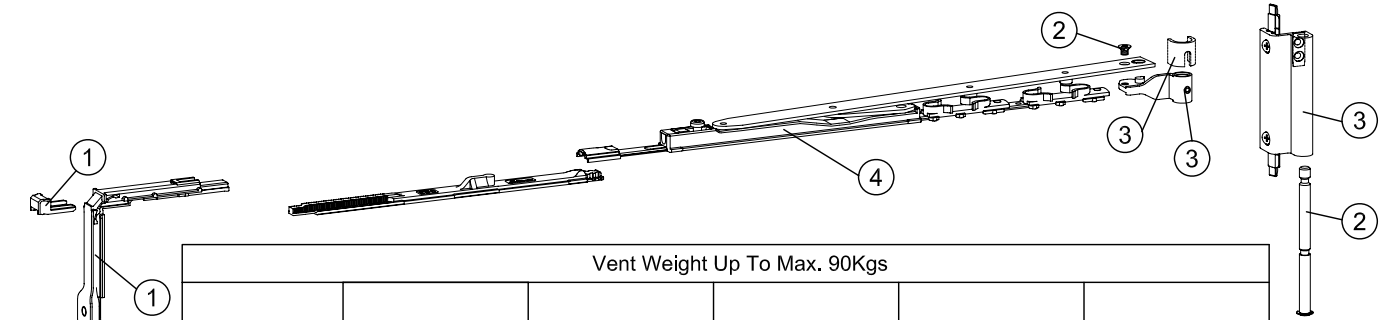
WIDTH DEPENDENT PARTS						
REF NO.	TOP RODS	INTERLOCKING RODS	CORNER DRIVES	SHEARS	WSK KEEP (QTY)	SEF KEEP (QTY)
	10	11	2	9	15	16
WIDTH RANGE						
390-550	WH2810613	WH2952030	WH2778140		0	0
551-800	WH2810621	WH2952030	WH2777403		1	0
801-1025	WH2810630	WH2287324	WH2777403		2	1
1026-1250	WH2810656	WH2287383	WH2777403		2	1
1251-1400	WH2810656	WH2287439	WH2777403	WH2549873	2	1

FURTHER FITTING DETAILS AVAILABLE ON REQUEST

NOTE: THIS GEARING IS ONLY COMPATIBLE WITH CONCEALED TILT/TURN SECTIONS SPW60925 & SPW61427

Check Hardware Suitability When Using Heavy Glazing Panels

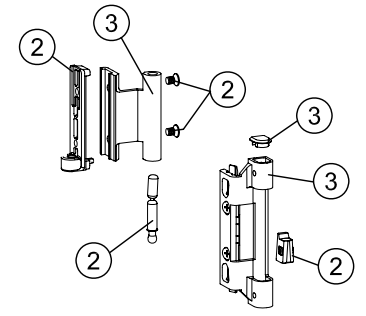
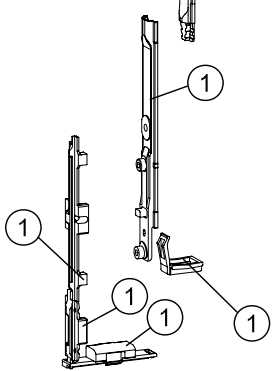
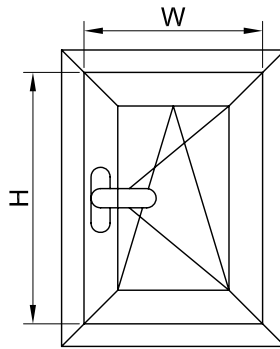
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Vent Weight Up To Max. 90Kgs					
	W = 450 - 670	W = 671 - 1200	W = 1201 - 1300	W = 1301 - 1400	W = 1401 - 1700
H = 600 - 1200	1) SO36110 2) SO3514012 3) SO3514010550 4) SO36001550	1) SO36110 2) SO3514012 3) SO3514010550 4) SO36002550	1) SO36110 2) SO3514012 3) SO3514010550 4) SO36002550 5) SO3014030	1) SO36110 2) SO3514012 3) SO3514010550 4) SO36003550 5) SO3014030	1) SO36110 2) SO3514012 3) SO3514010550 4) SO36003550 5) SO3014030 6) SO35140790
H = 1201 - 1800	1) SO36110 2) SO3514012 3) SO3514010550 4) SO36001550 5) SO3014030	1) SO36110 2) SO3514012 3) SO3514010550 4) SO36002550 5) SO3014030	1) SO36110 2) SO3514012 3) SO3514010550 4) SO36002550 5) 2 x SO3014030	1) SO36110 2) SO3514012 3) SO3514010550 4) SO36003550 5) 2 x SO3014030	1) SO36110 2) SO3514012 3) SO3514010550 4) SO36003550 5) 2 x SO3014030 6) SO35140790
H = 1801 - 2400		1) SO36110 2) SO3514012 3) SO3514010550 4) SO36002550 5) SO3014030 7) 2 x SO30140800	1) SO36110 2) SO3514012 3) SO3514010550 4) SO36002550 5) 2 x SO3014030 7) 2 x SO30140800	1) SO36110 2) SO3514012 3) SO3514010550 4) SO36003550 5) 2 x SO3014030 7) 2 x SO30140800	1) SO36110 2) SO3514012 3) SO3514010550 4) SO36003550 5) 2 x SO3014030 6) SO35140790 7) 2 x SO30140800

SO3514010550 = SILVER STOCK ITEM, FOR OTHER COLOURS CONTACT SALES
THIS ITEM WILL BE SHOWN ON CHRONO SOLVE PRINT-OUTS AS 3514010

SO30000659

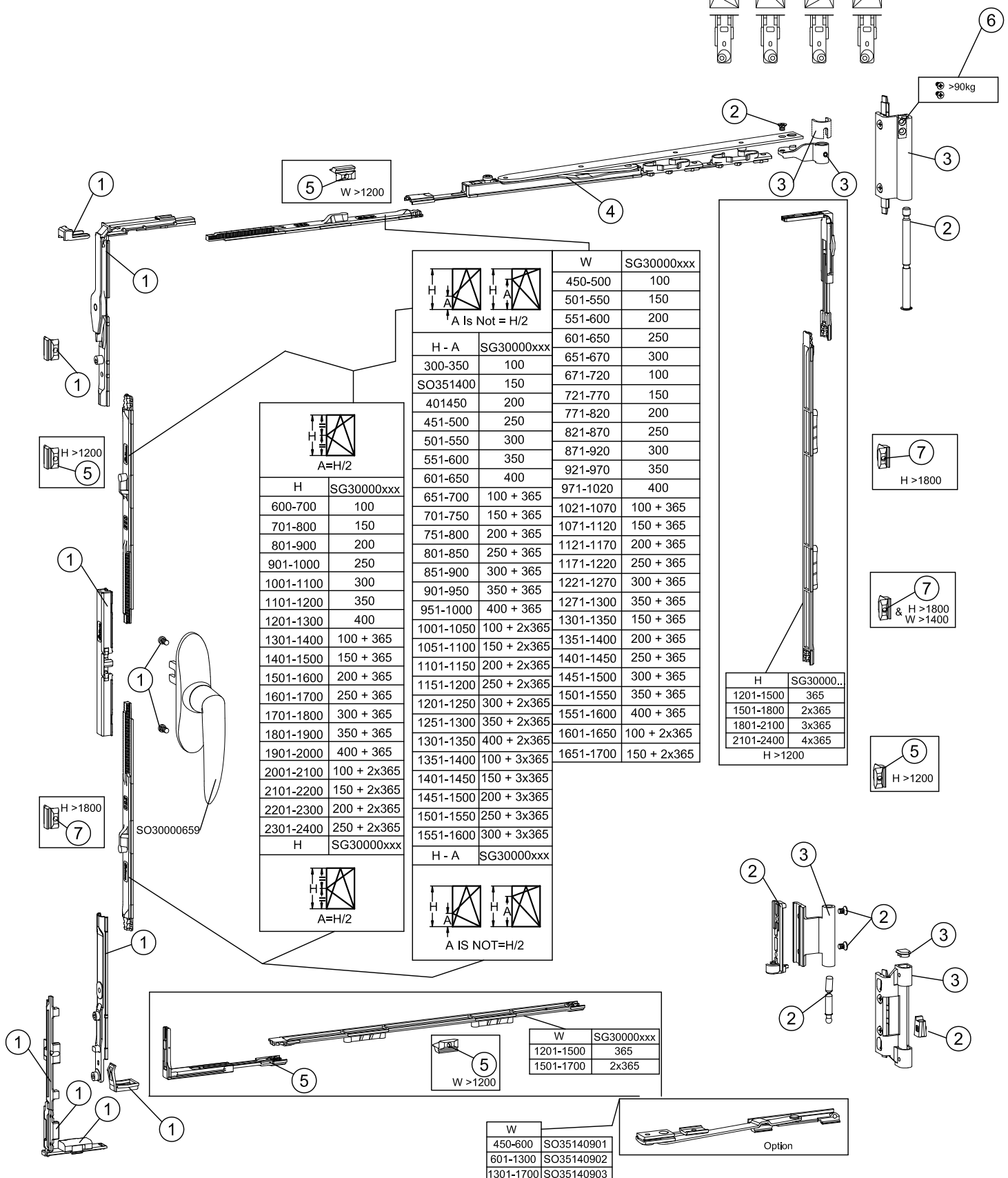
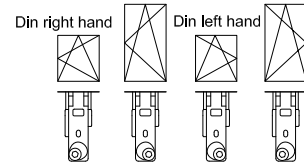


Check Hardware Suitability When Using Heavy Glazing Panels

SPW600e Inward Opening SPW600e.D.216

Chrono Tilt Turn Gearing

04.12



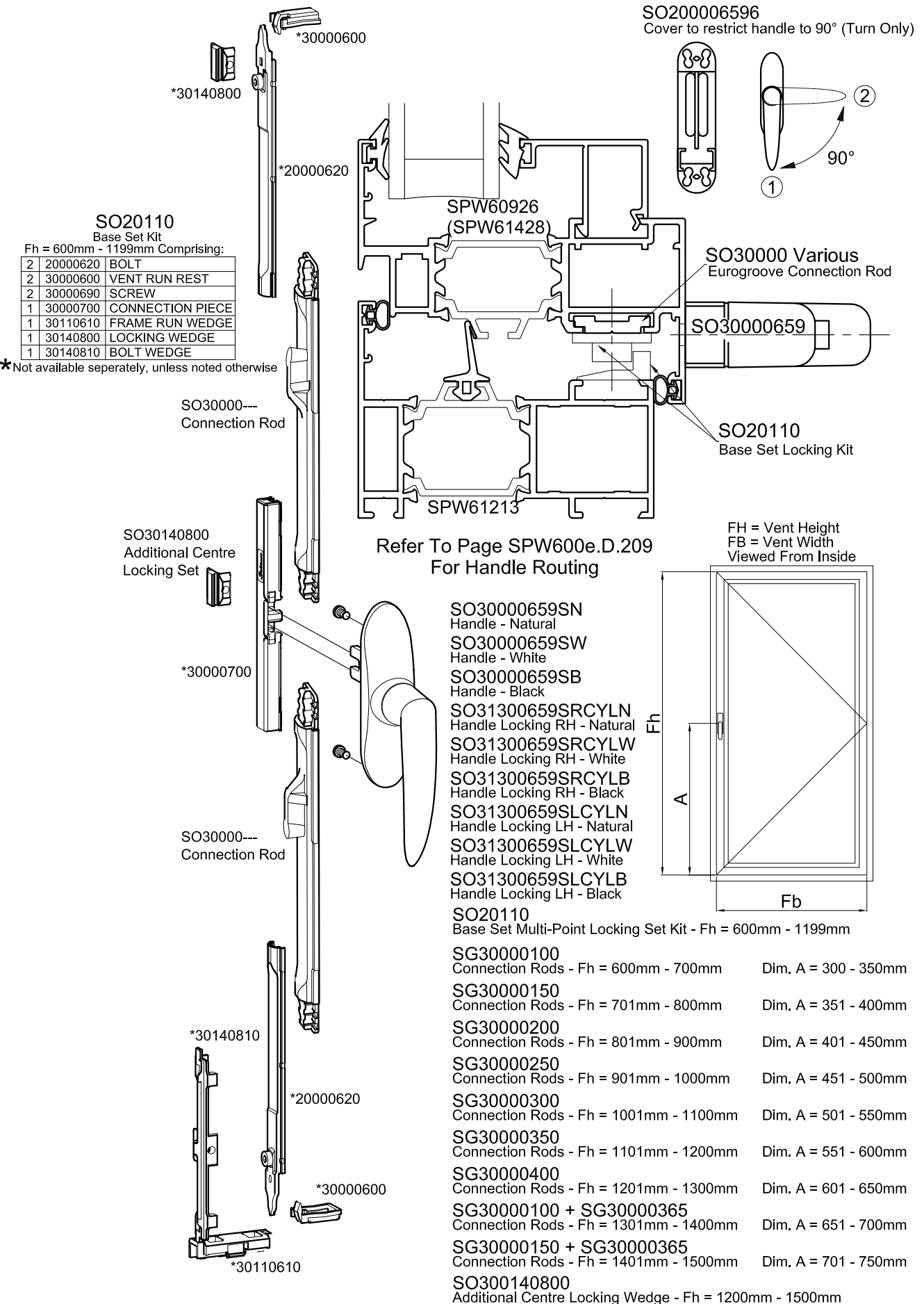
H - A		W	SG30000xxx
A Is Not = H/2		450-500	100
		501-550	150
		551-600	200
		601-650	250
		651-670	300
		671-720	100
		721-770	150
		771-820	200
		821-870	250
		871-920	300
		921-970	350
		971-1020	400
		1021-1070	100 + 365
		1071-1120	150 + 365
		1121-1170	200 + 365
		1171-1220	250 + 365
		1221-1270	300 + 365
		1271-1300	350 + 365
		1301-1350	150 + 365
		1351-1400	200 + 365
		1401-1450	250 + 365
		1451-1500	300 + 365
		1501-1550	350 + 365
		1551-1600	400 + 365
		1601-1650	100 + 2x365
		1651-1700	150 + 2x365
H - A		W	SG30000xxx
A = H/2		600-700	100
		701-800	150
		801-900	200
		901-1000	250
		1001-1100	300
		1101-1200	350
		1201-1300	400
		1301-1400	100 + 365
		1401-1500	150 + 365
		1501-1600	200 + 365
		1601-1700	250 + 365
		1701-1800	300 + 365
		1801-1900	350 + 365
		1901-2000	400 + 365
		2001-2100	100 + 2x365
		2101-2200	150 + 2x365
		2201-2300	200 + 2x365
		2301-2400	250 + 2x365
H - A		W	SG30000xxx
A IS NOT = H/2		1201-1500	365
		1501-1700	2x365

H	SG30000..
1201-1500	365
1501-1800	2x365
1801-2100	3x365
2101-2400	4x365

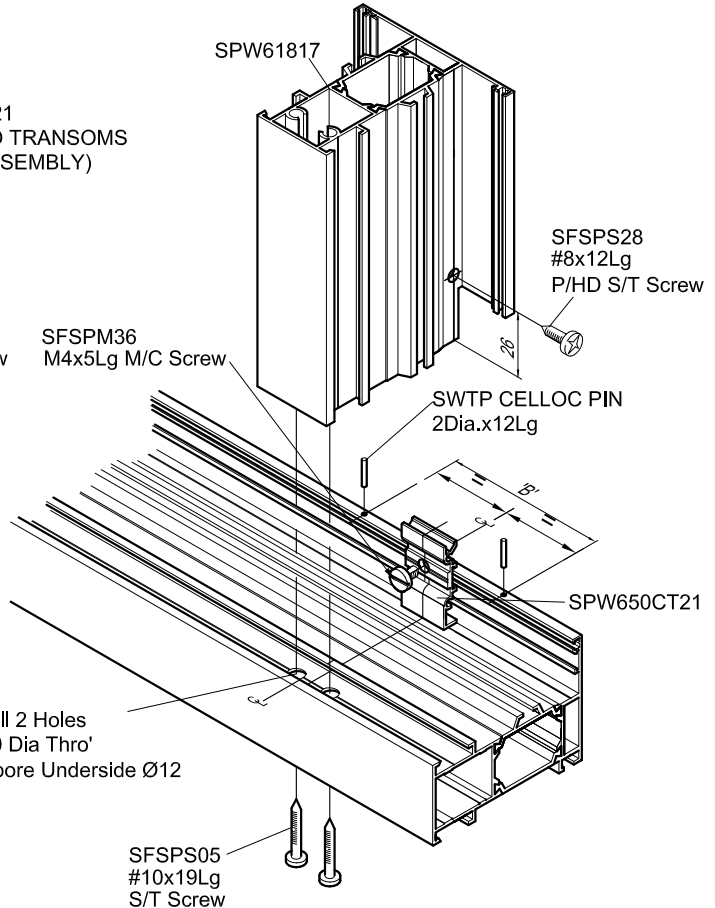
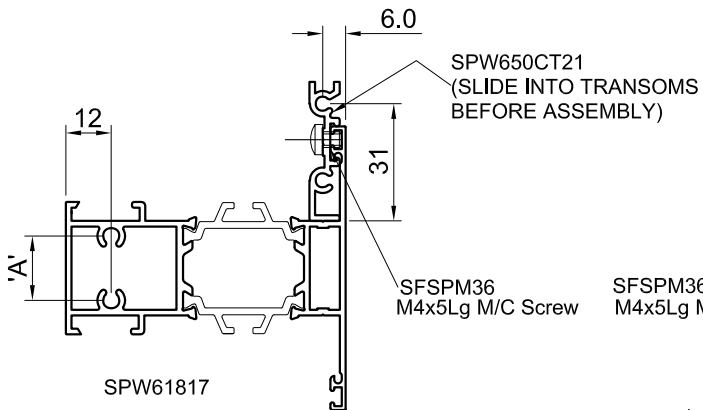
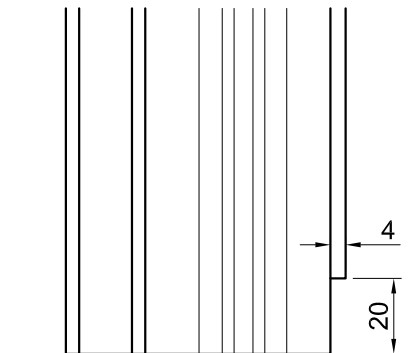
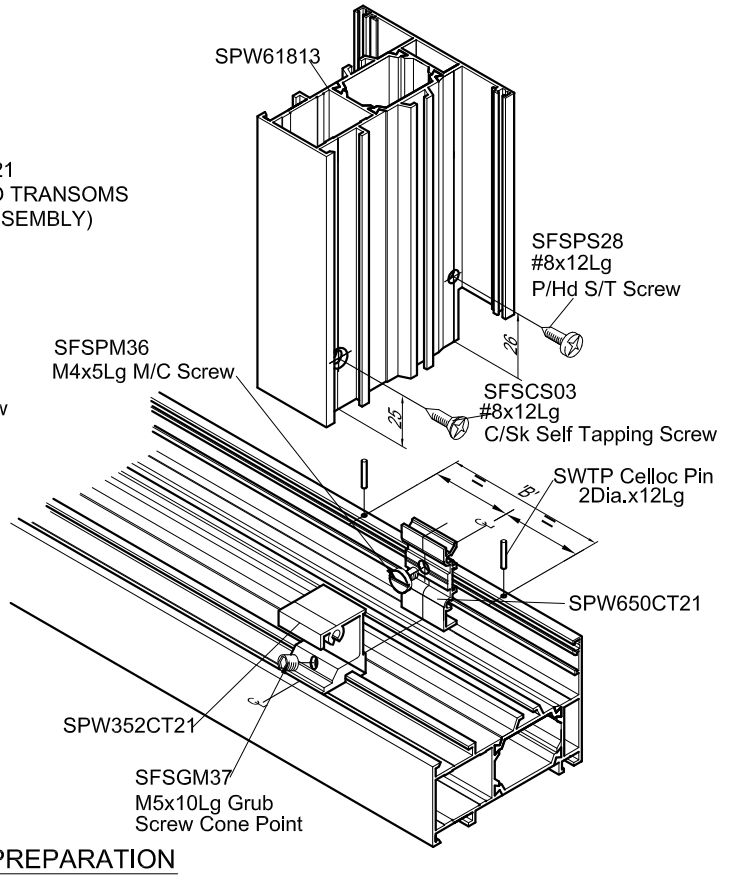
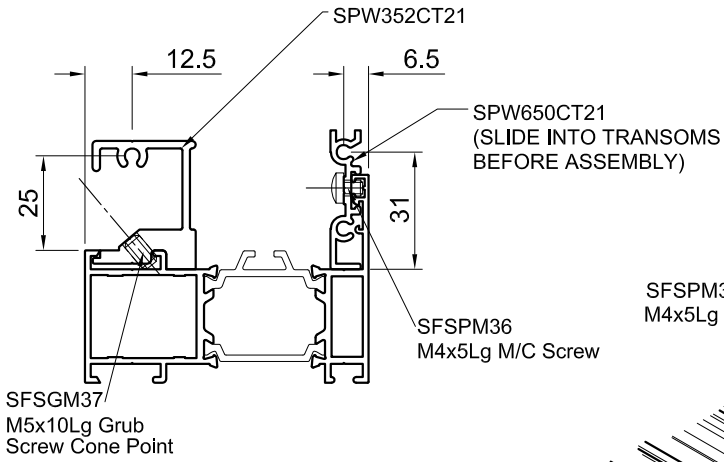
W	SG30000xxx
1201-1500	365
1501-1700	2x365

W	Option
450-600	SO35140901
601-1300	SO35140902
1301-1700	SO35140903

Check Hardware Suitability When Using Heavy Glazing Panels



NOTE: CRUCIFORM JOINTS CAN ONLY BE FORMED USING SHEARBLOCKS



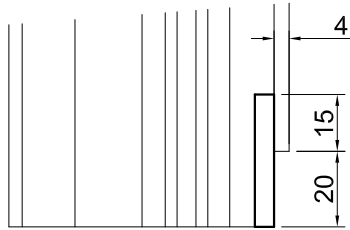
TRANSOM	DIM 'A'	DIM 'B'	BLOCK INNER	BLOCK OUTER
SPW61813	N/A	58	SPW352CT21	SPW650CT21
SPW61817	17	58	N/A	SPW650CT21
SPW61940	N/A	68	SPW352CT31	SPW650CT30
SPW65455	62	93	SPW352CT58	SPW650CT66

SPW600e Inward Opening SPW600e.E.202

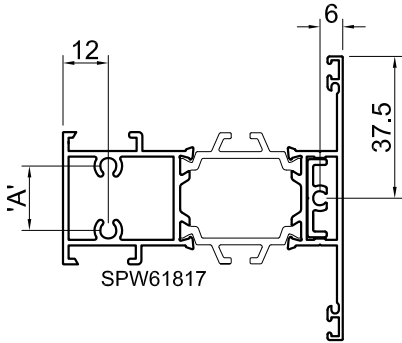
Transom/Mullion

04.12

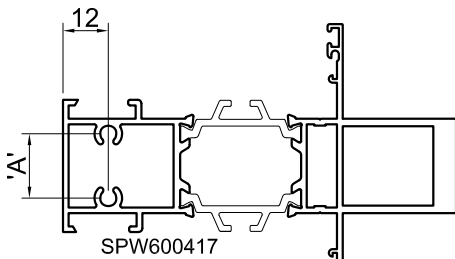
Shear Block and Screw Fix



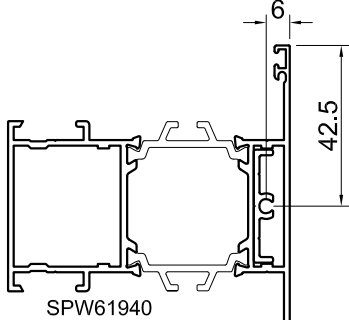
TRANSOM PREPARATION



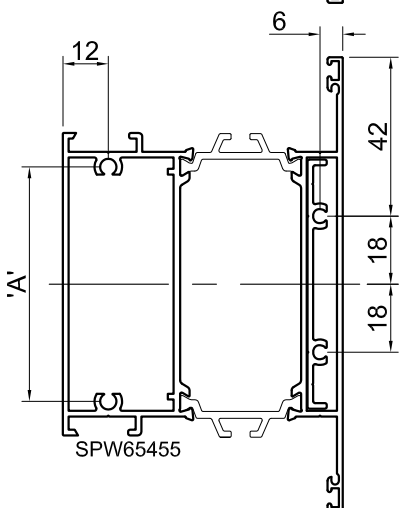
SPW61817



SPW600417

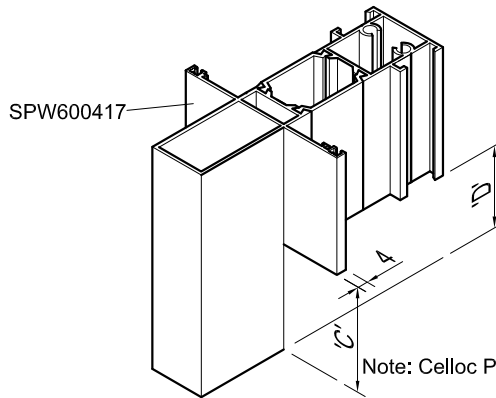
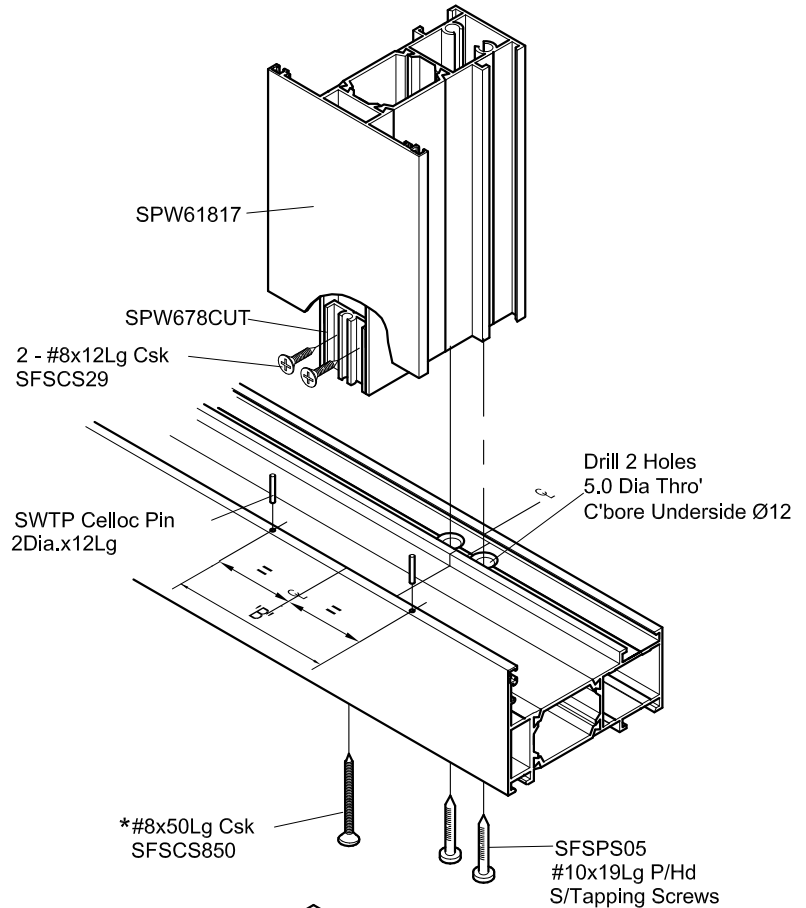


SPW61940



SPW65455

NOTE: CRUCIFORM JOINTS CAN ONLY BE FORMED USING SHEARBLOCKS



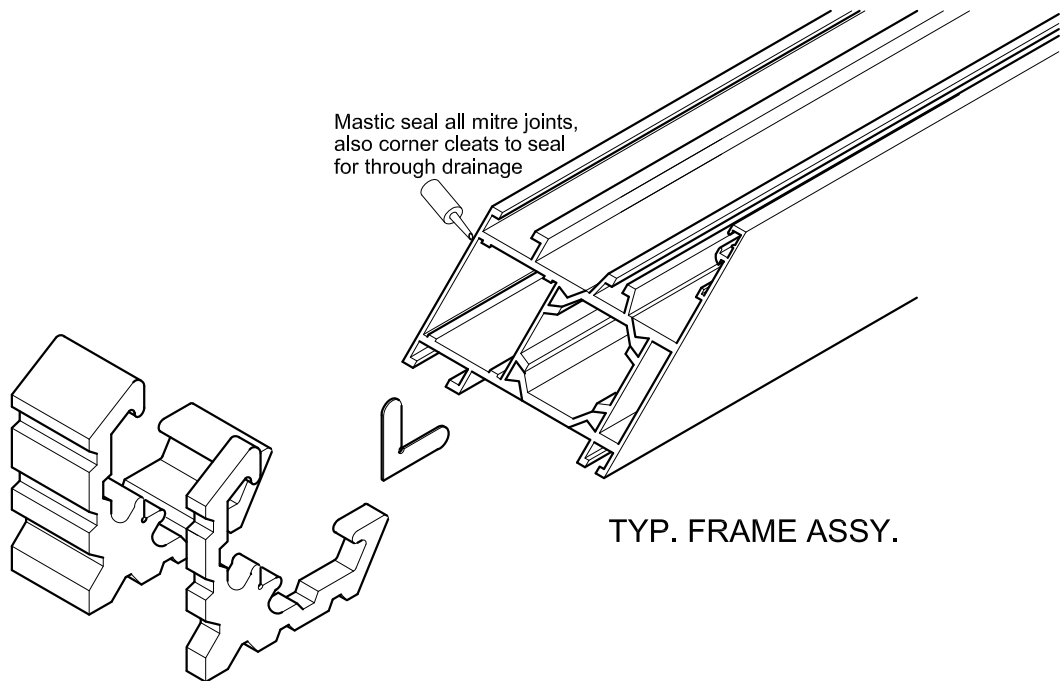
SPW600417

Note: Celloc Pin & Screws To Screwport As Above

SPW600417 REINFORCED MULLION/TRANSOM		
OUTER	DIM 'C'	DIM 'D'
SPW61213	55	35
SPW64740	65	45

TRANSOM/MULLION OPTIONS				
TRANSOM	DIM 'A'	DIM 'B'	BLOCK OUTER	BLOCK INNER
SPW61813	N/A	58	SPW678CUT	SPW352CT21
SPW61817	17	58	SPW678CUT	N/A
SPW600417	17	58	N/A	N/A
SPW61940	N/A	68	SPW677CUT	SPW352CT31
*SPW65455	62	93	SPW679CUT	SPW352CT58

*NOTE: USE 2 SCREWS SFSCS-850 18mm EITHER SIDE OF \square



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

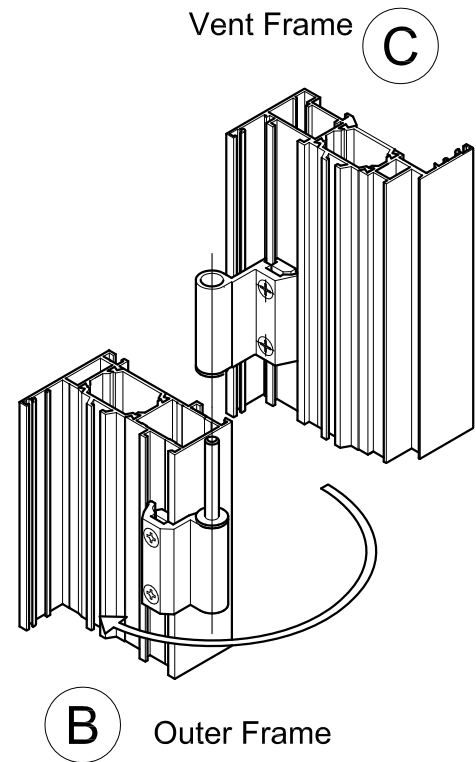
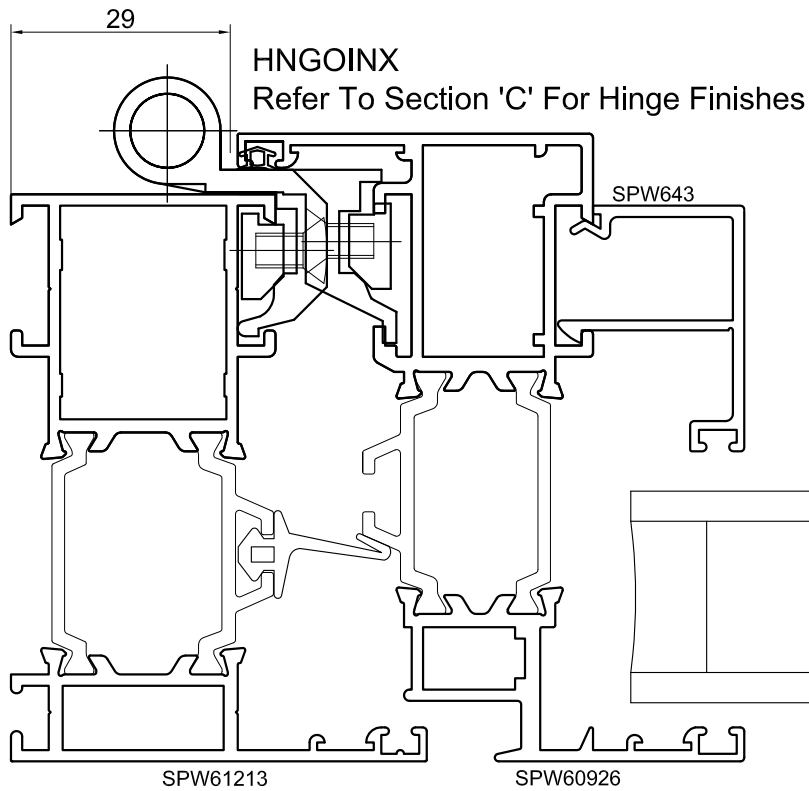
SECTION	INNER CLEAT	OUTER CLEAT	OUTER CHEVRON	INNER CHEVRON
SPW64740	SW446CT28	SW446CT8	SW4CH7/CHEV7P	N/A
SPW61213	SW445CT28	SW445CT8	SW4CH7/CHEV7P	N/A
SPW60925	SXTW212CT28	SXTW281CT8	SW4CH7/CHEV7P	SW4CH7/CHEV7P
SPW60926	SPW645CT28	SXTW281CT8	SW4CH7/CHEV7P	SW4CH15/CHEV15P
SPW61427	SW445CT28	SW445CT8	SW4CH7/CHEV7P	SW4CH7/CHEV7P
SPW61428	SW446CT28	SW445CT8	SW4CH7/CHEV7P	SW4CH15/CHEV15P
SPW61940	SW446CT28	SW446CT8	N/A	N/A
SPW61813	SW445CT28	SW445CT8	SW4CH7/CHEV7P	N/A

CRIMPED SECTIONS ONLY FOR ENHANCED THERMAL PERFORMANCE	
SECTION	INSERT
SPW60925	EPS004
SPW60926	EPS004
SPW61213	EPS008
SPW61427	EPS001
SPW61428	EPS001
SPW61813	EPS008
SPW64740	EPS001
SPW61940	EPS001

SPW600e Inward Opening SPW600e.E.204

Open In Slide Bar Vents - Clamp On Butt Hinge Arrangement

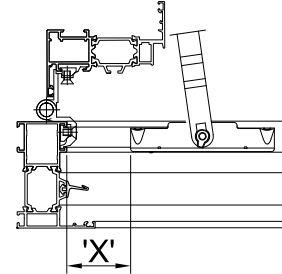
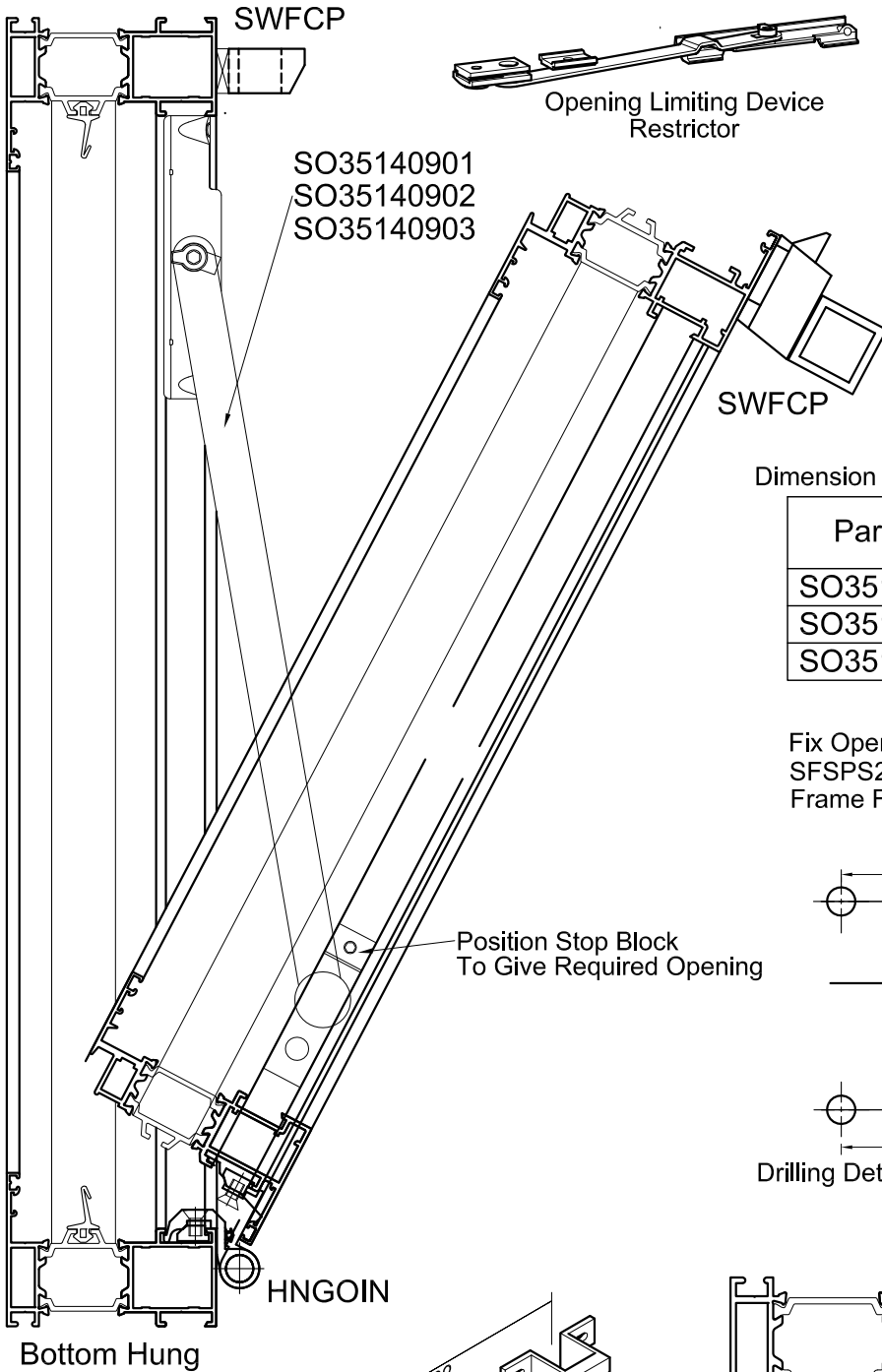
04.12



(A) Open In Vent

SIDE HUNG
Maximum Width = 1000mm
Max. Weight (3 Hinges) = 30Kg

BOTTOM HUNG
See page SPW600e.E.205

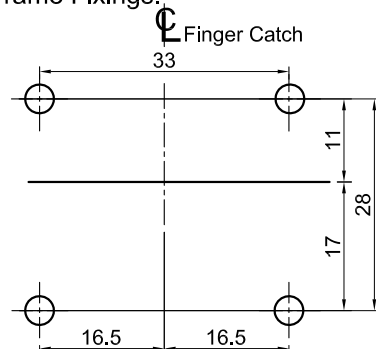


Side Hung

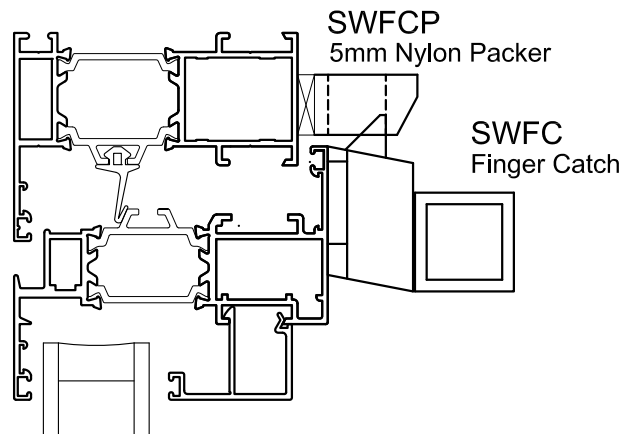
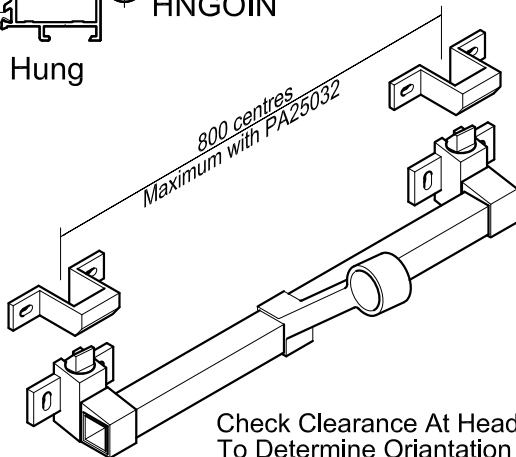
Dimension 'X' To Restrict Opening Angle To 90°

Part No.	Vent Width/Height	X
SO35140901	500-650	35
SO35140902	651-1300	45
SO35140903	1301-1700	80

Fix Opener Using #8x1/2LG. Pozi Pan Hd. SFSPS28 With Ground Off Tip On Outer Frame Fixings.



Drilling Details For SWFC Finger Catch



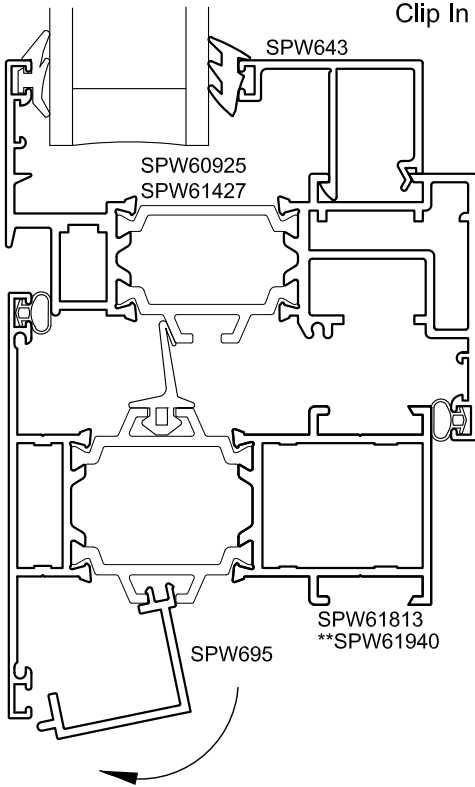
SPW600e Inward Opening

SPW600e.E.206

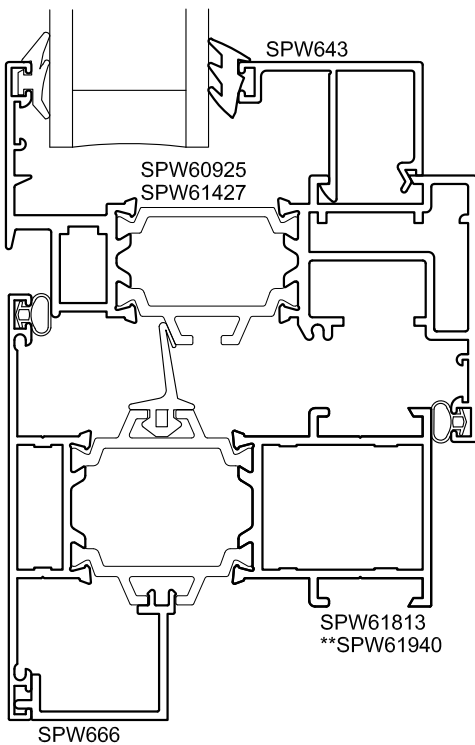
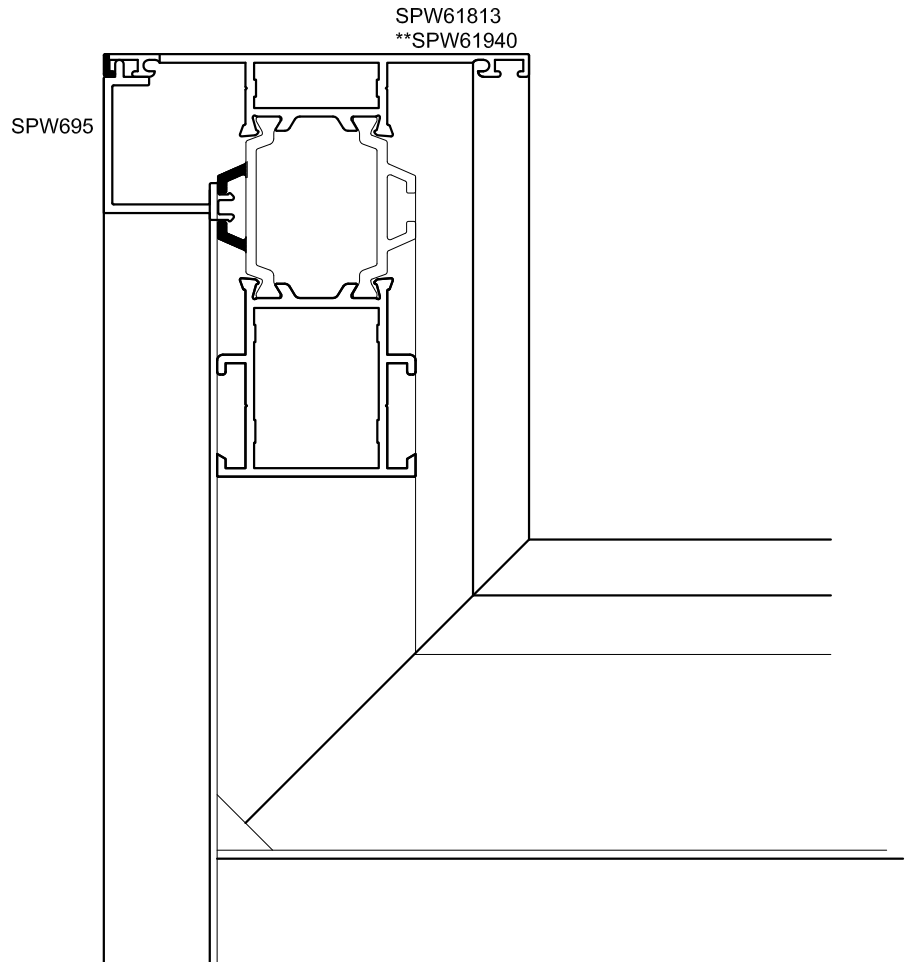
Curtain Wall Adaptor Assembly - 28mm Only

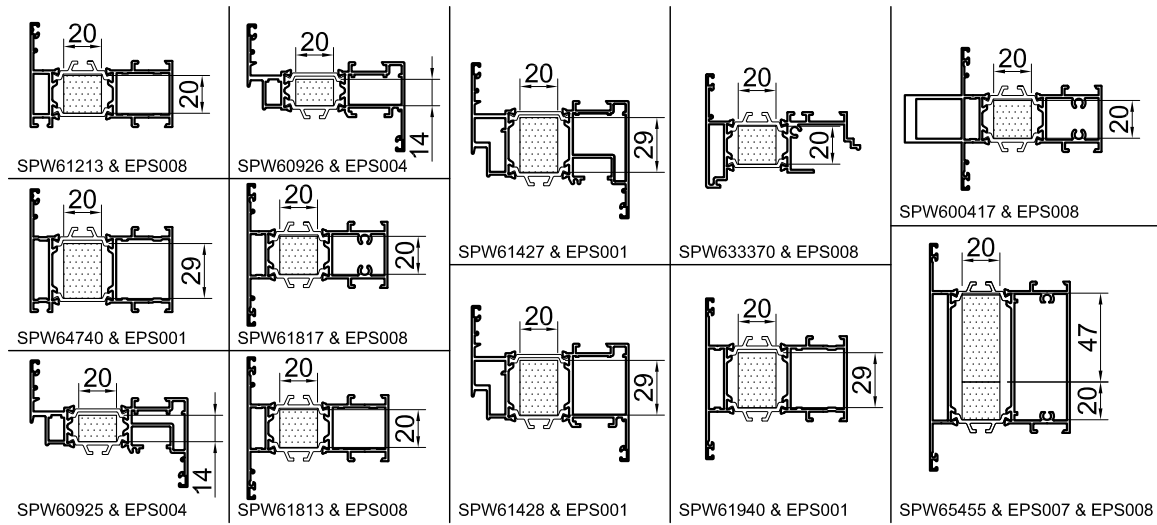
04.12

Clip In Method

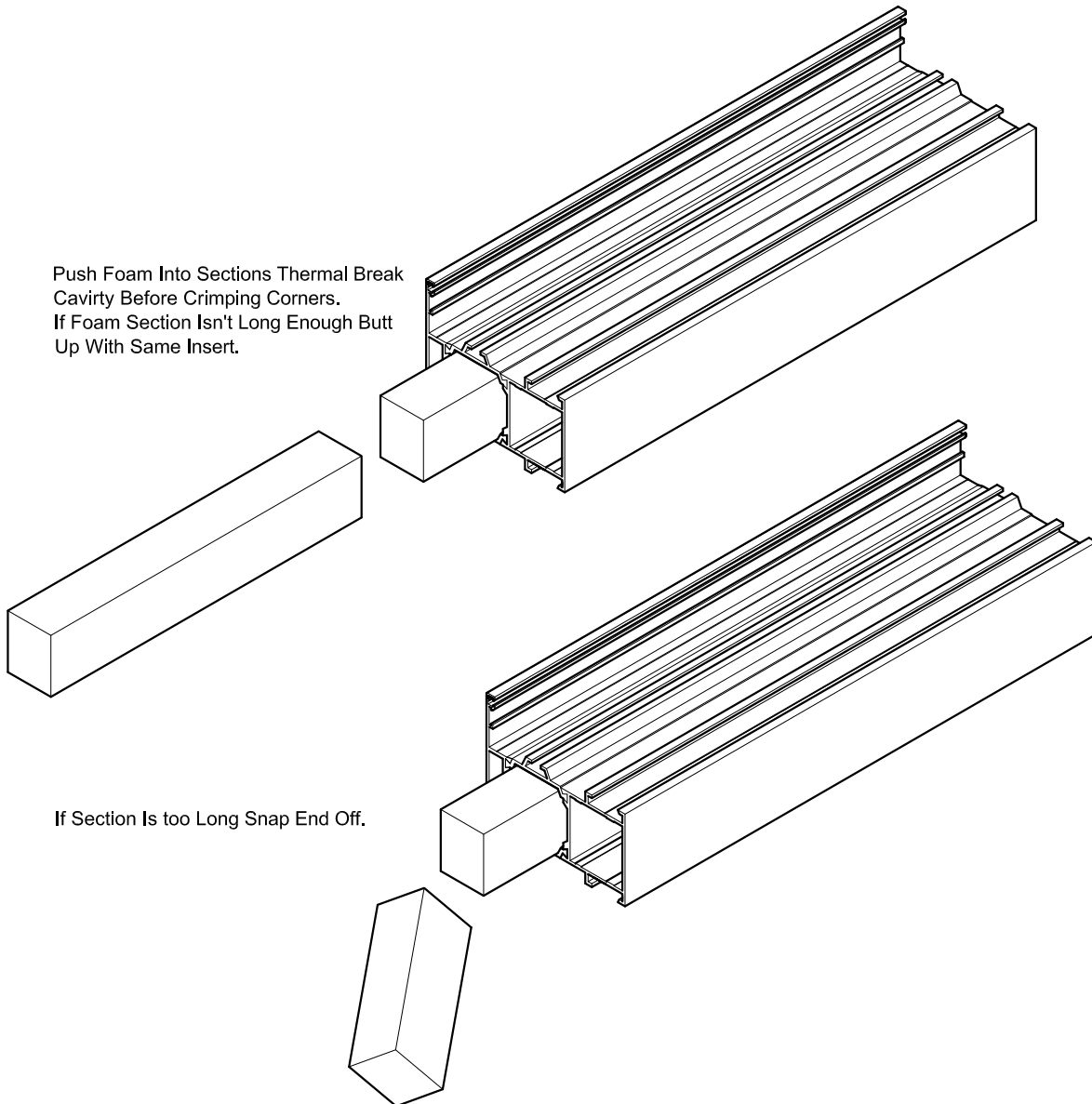


Alternative Method Of Assembly
Remove Corners As Shown (Shaded) And Slide In
SPW695 Cut Vertical Full Height
Cut Horizontal Width -40mm





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.

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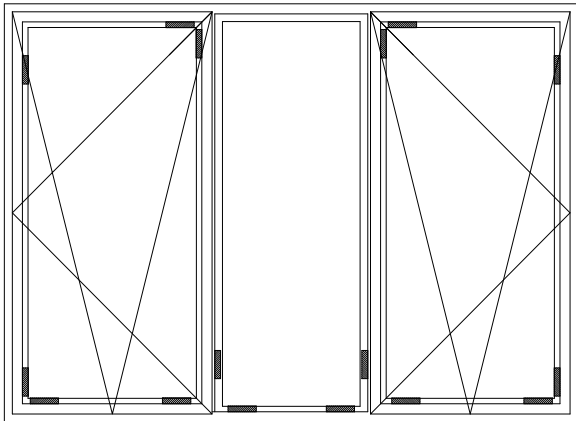


FIGURE A - CONVENTIONAL GLASS PACKING

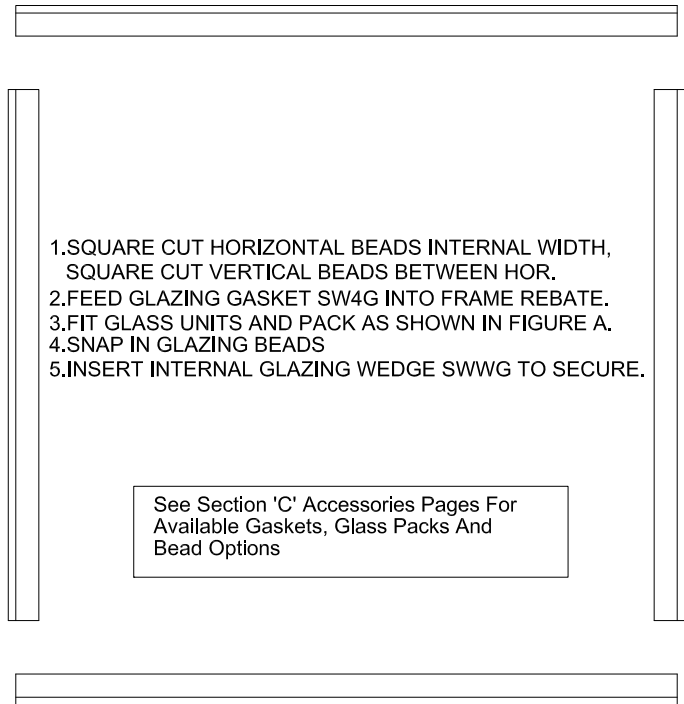
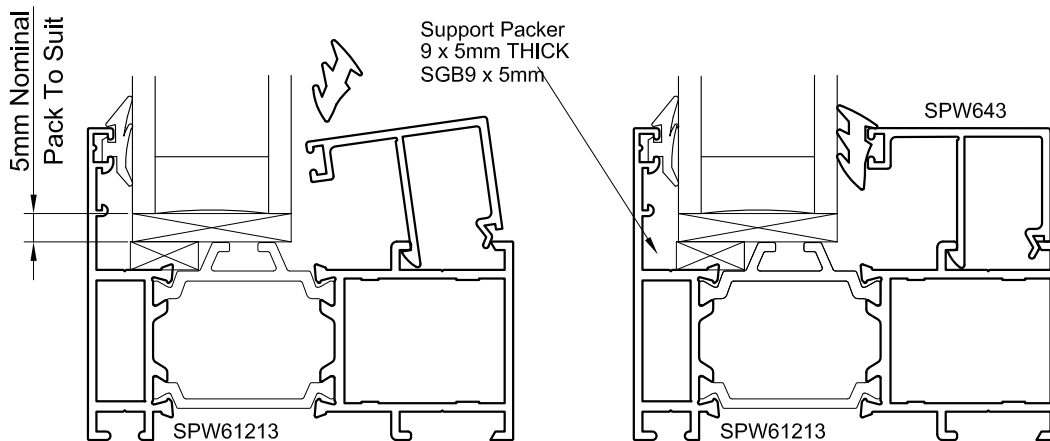


FIGURE B - BEAD CUTTING



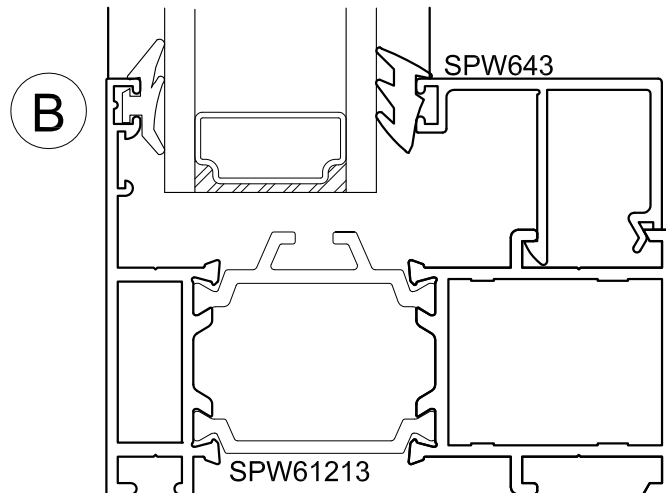
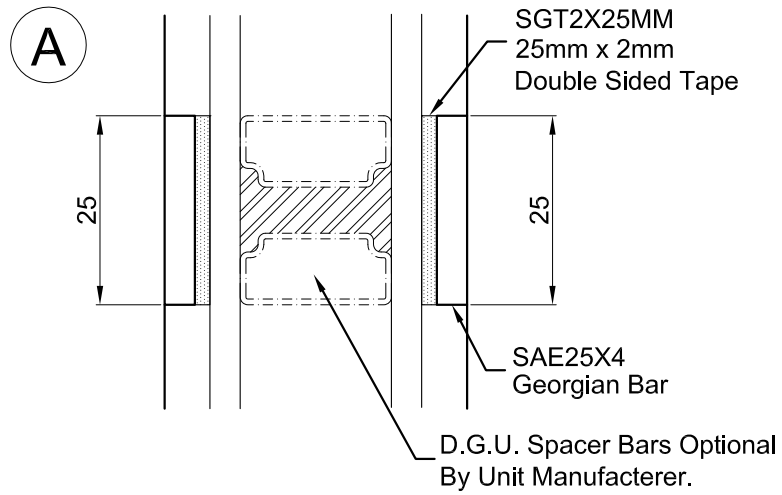
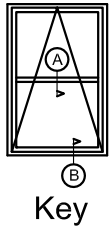
Internal Glazing

SPW600e Inward Opening SPW600e.F.202

Georgian Bar

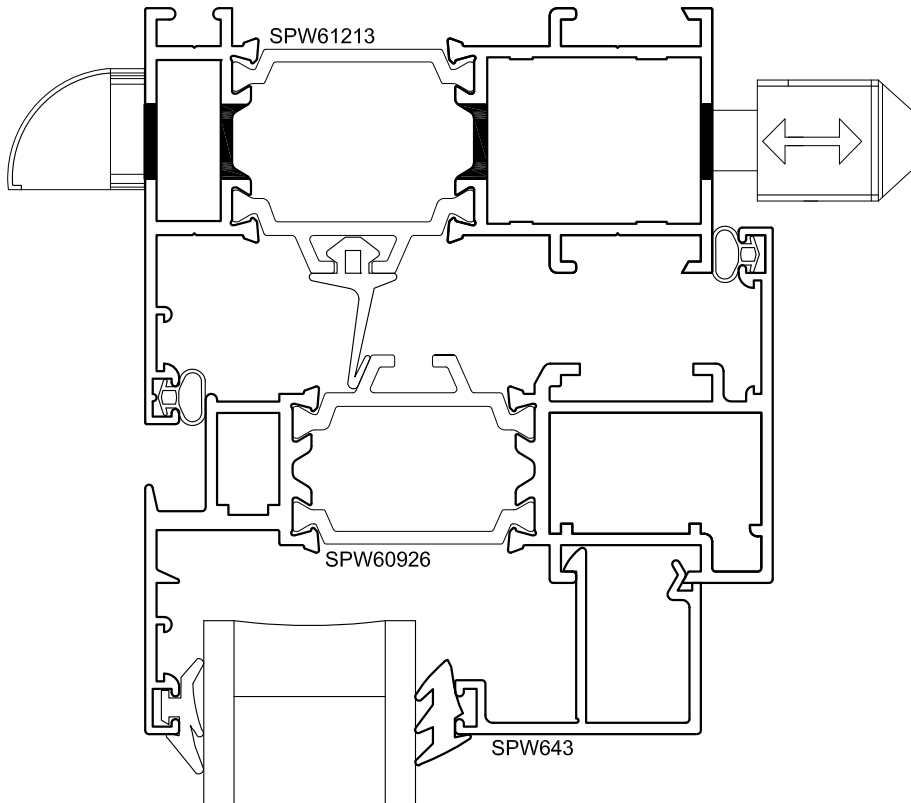
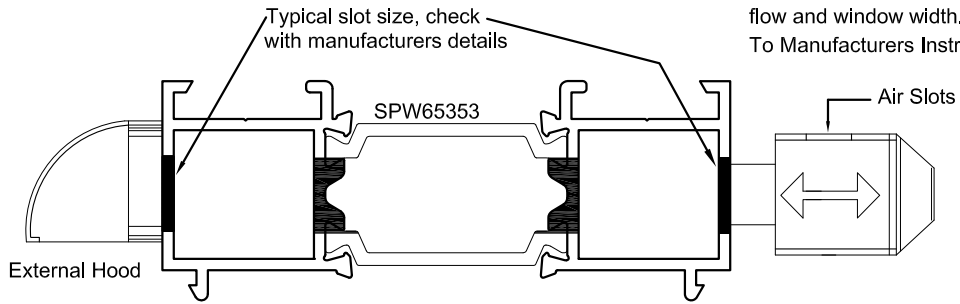
04.12

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.



Internal Vent Unit
in Open Position

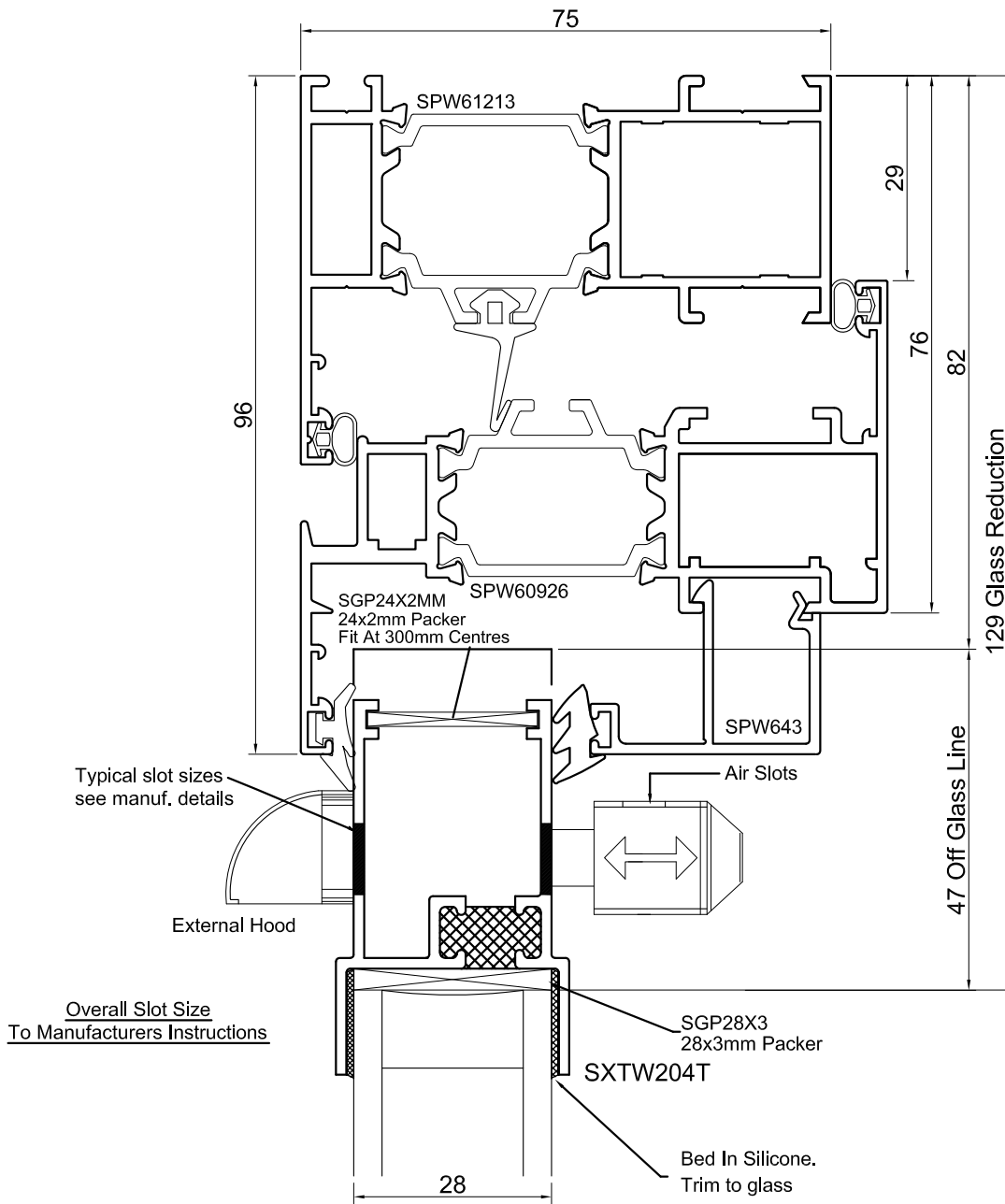
Overall Slot Size
10mm x 205mm min.
10mm x 605mm max.
or to suit required air
flow and window width.
To Manufacturers Instructions



SPW600e Inward Opening SPW600e.G.202

28mm Over Glass Slotted Trickle Vent Carrier

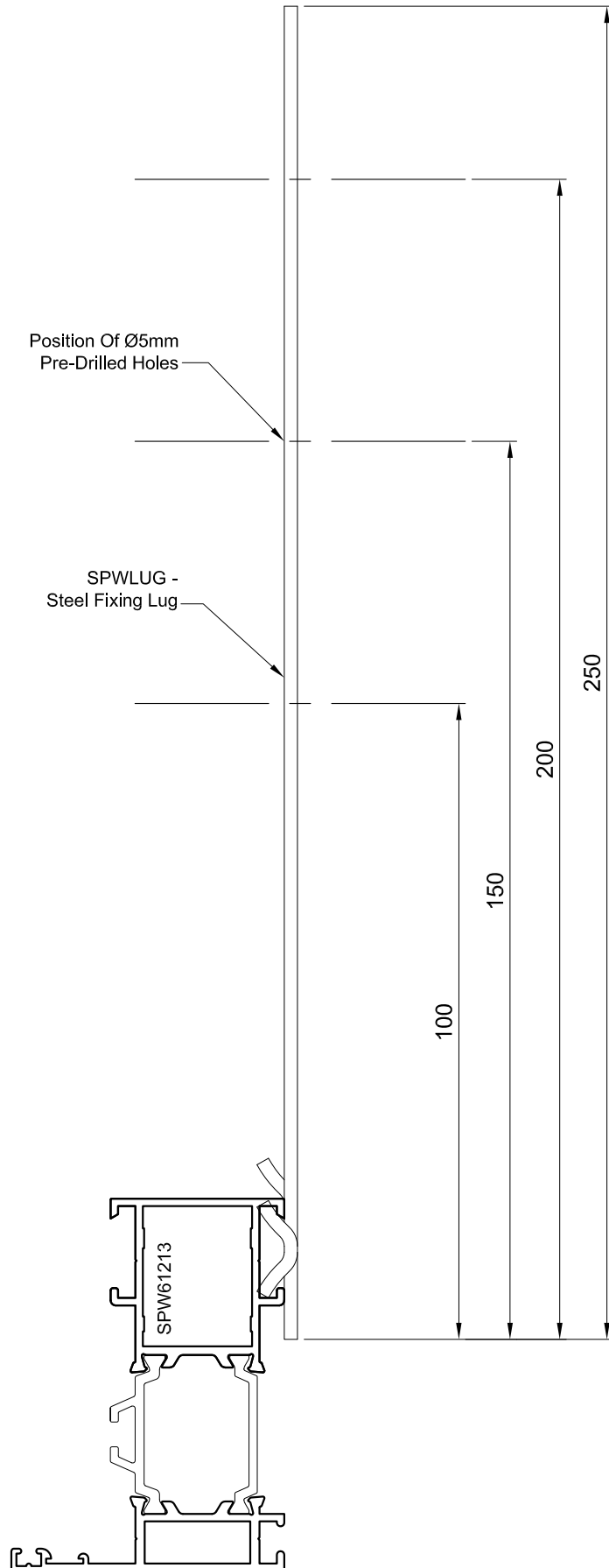
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Typical Detail

SPW600e Inward Opening

Steel Fixing Lugs

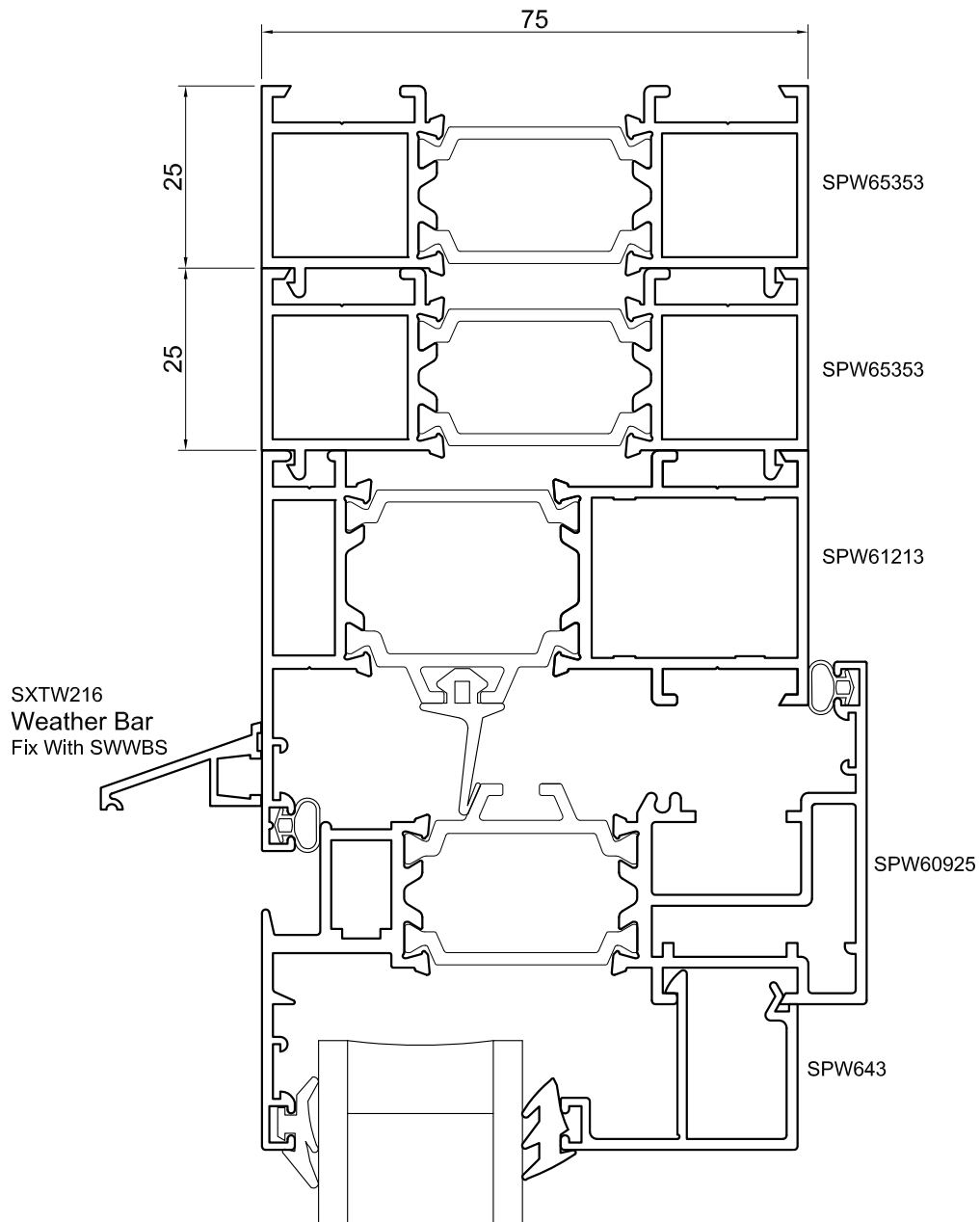


SPW600e Inward Opening SPW600e.G.204

25mm Add-On & Weather Bar

04.12

NOTE:- Seal All Metal To Metal Joints With Silicone

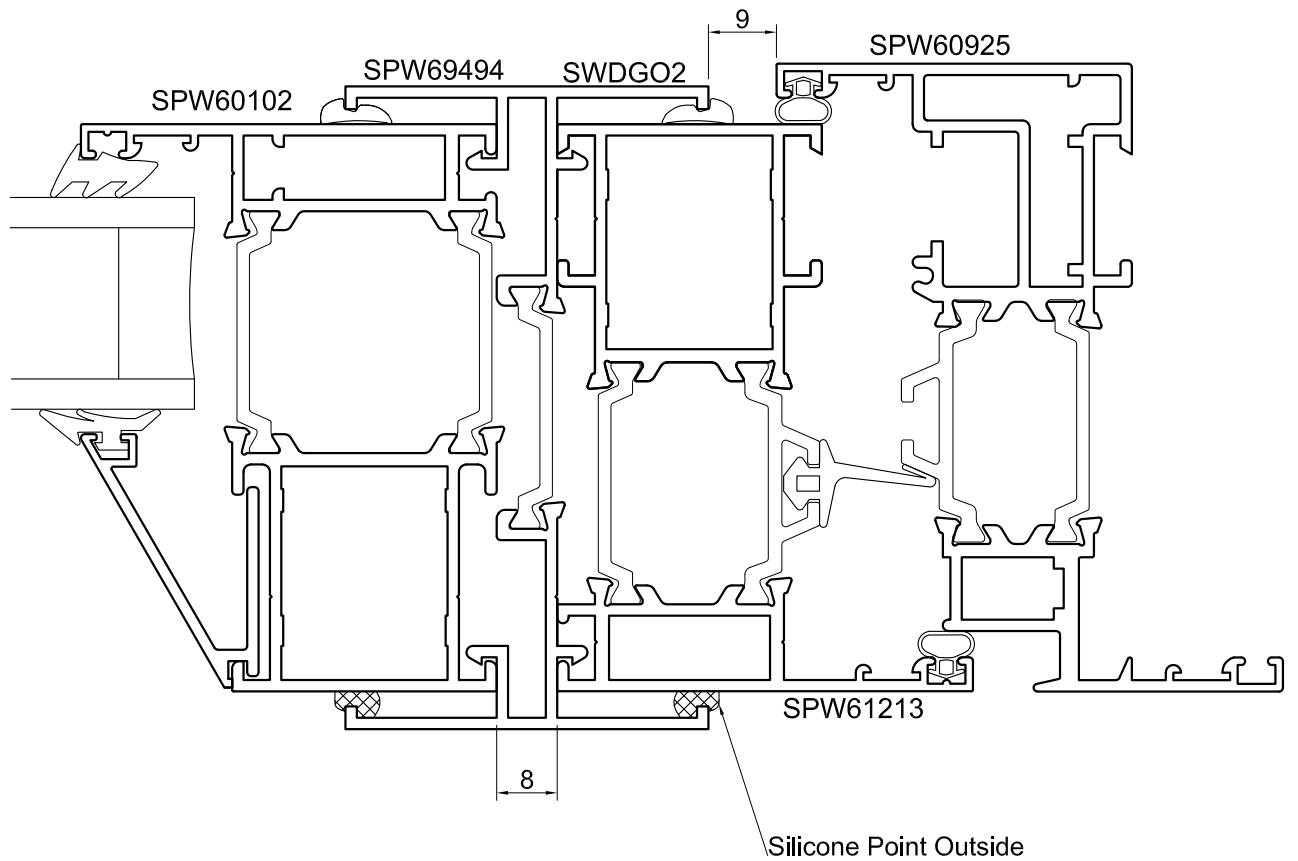
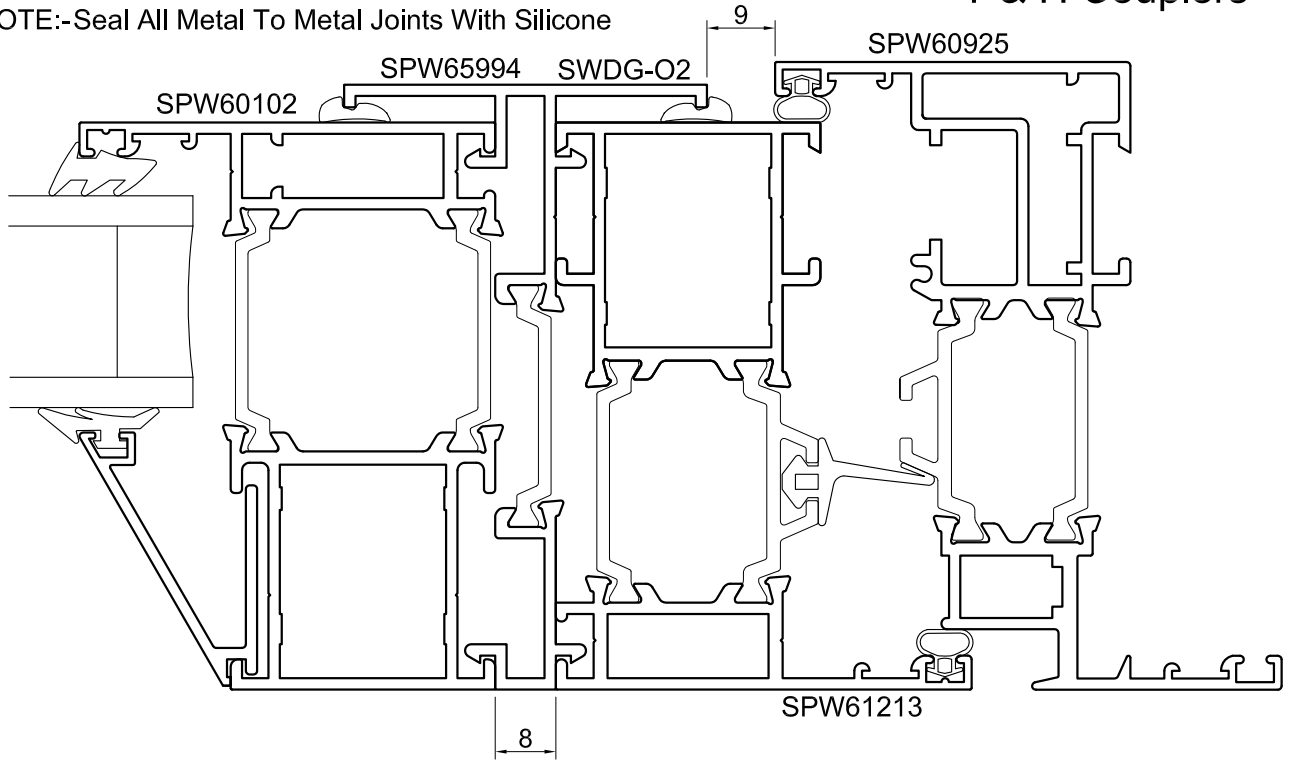


SPW600e.G.205 SPW600e Inward Opening

04.12

T & H Couplers

NOTE:- Seal All Metal To Metal Joints With Silicone



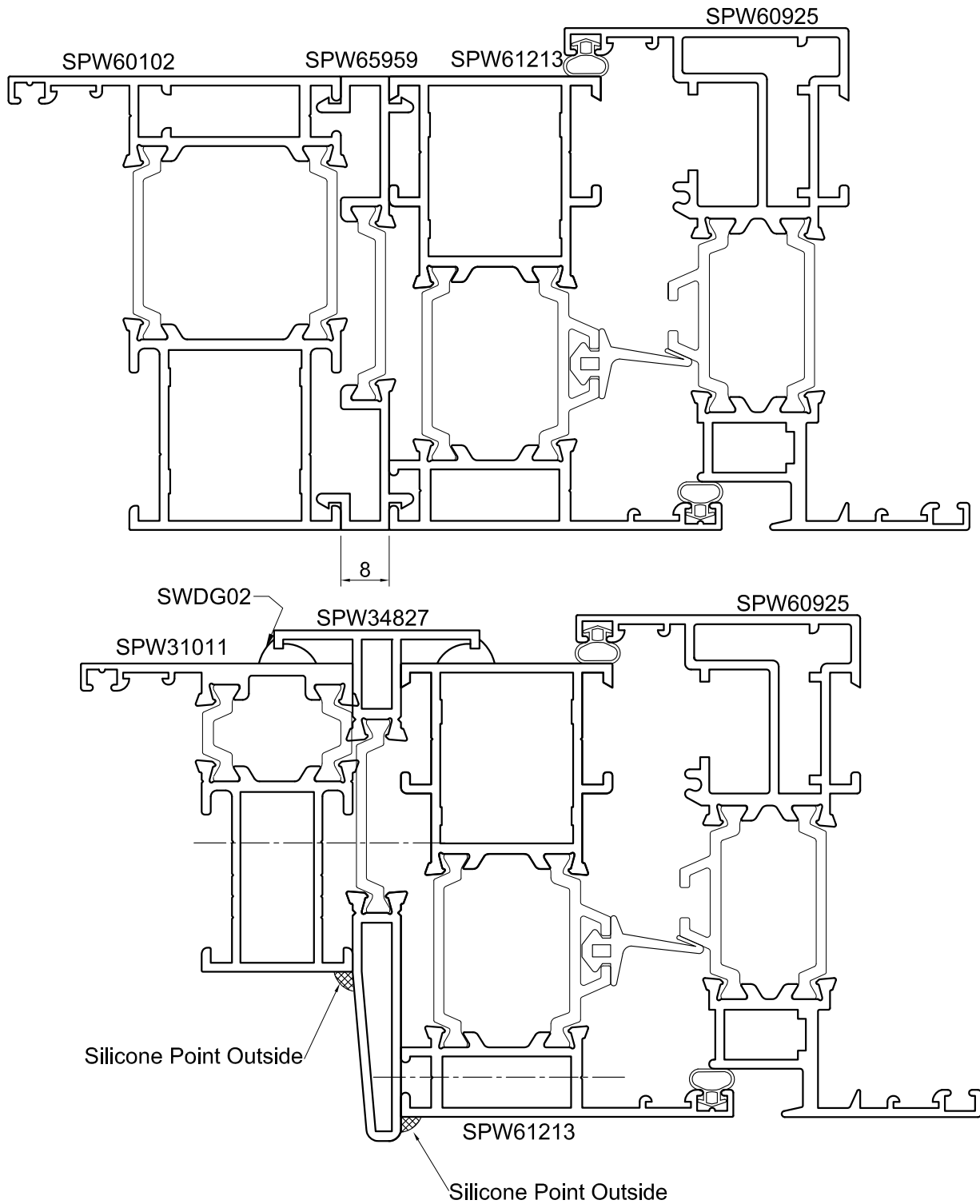
SPW600e Inward Opening

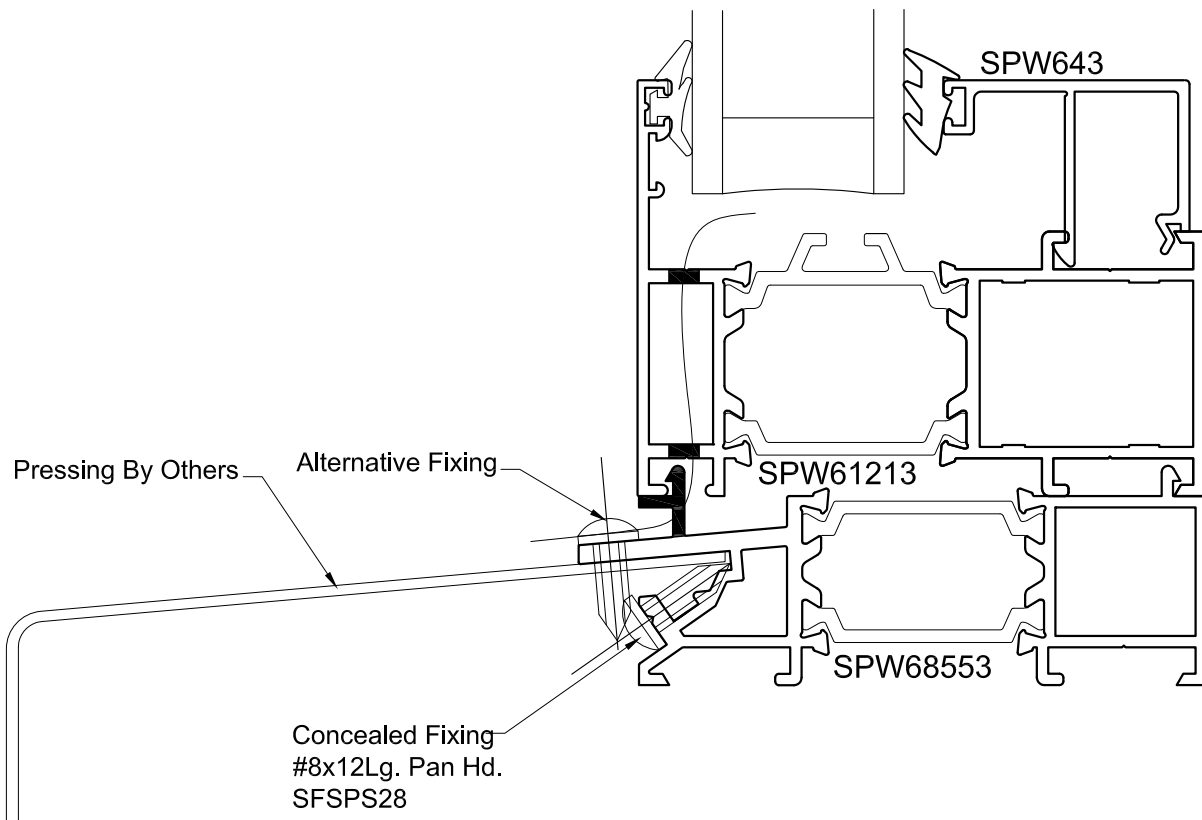
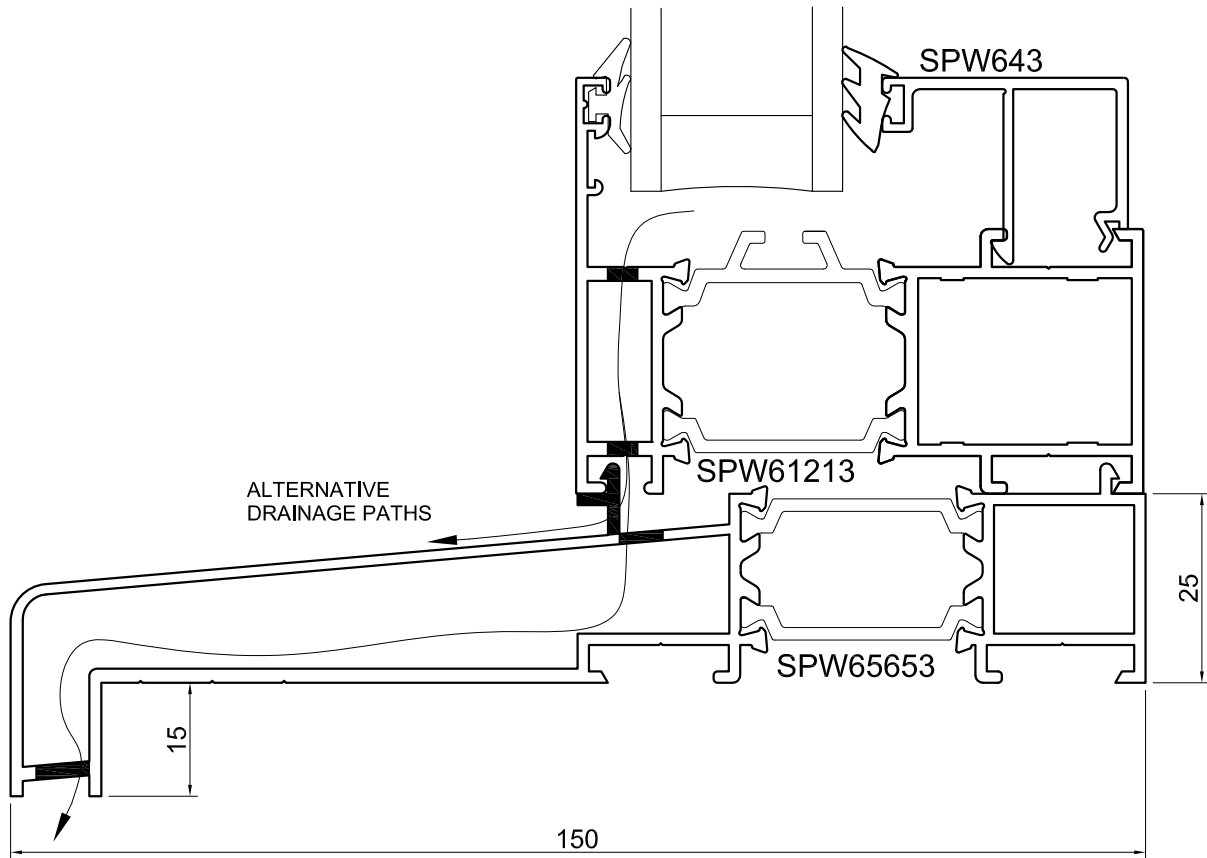
SPW600e.G.206

Couplers

04.12

NOTE:-Seal All Metal To Metal Joints With Silicone



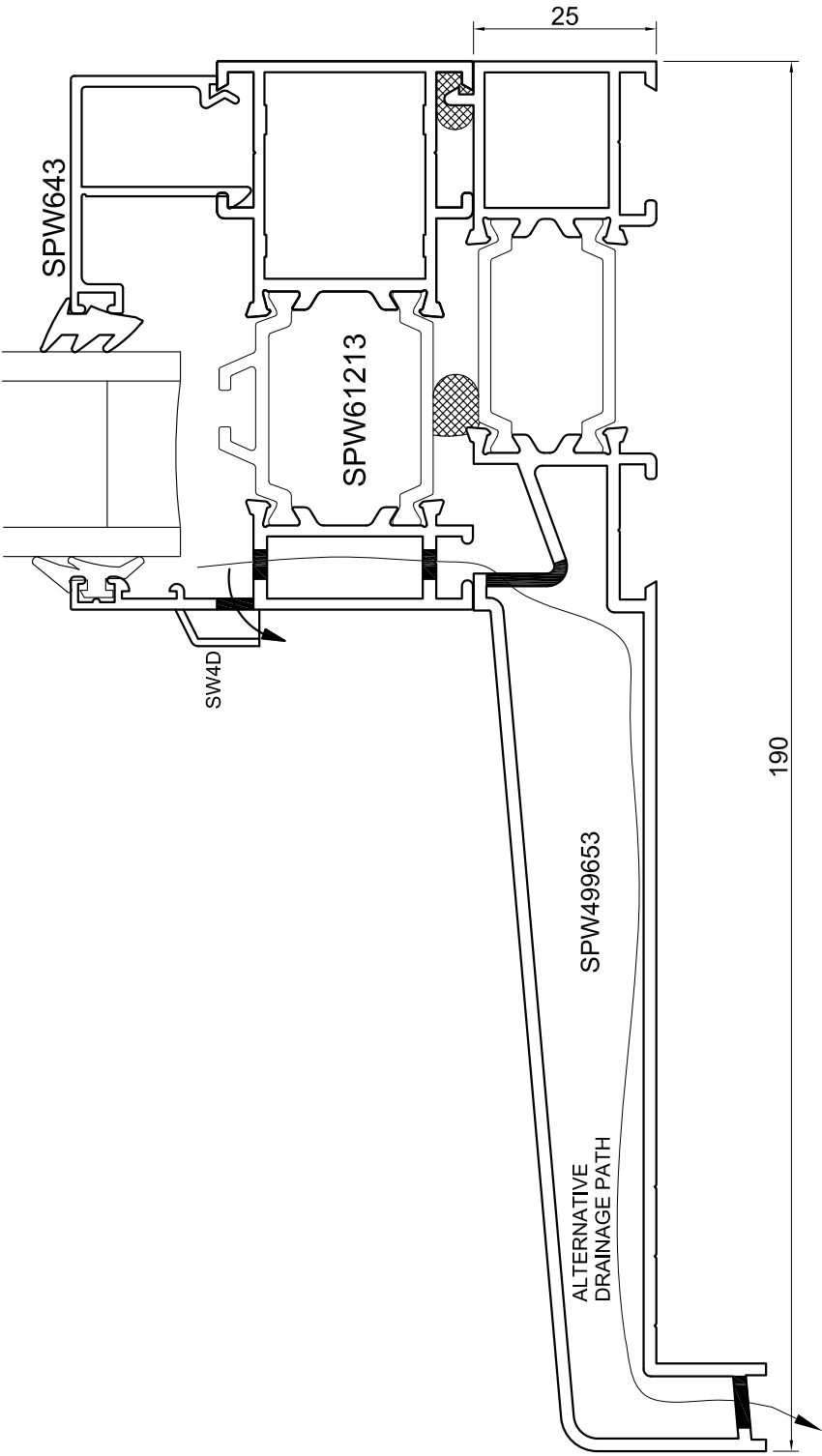


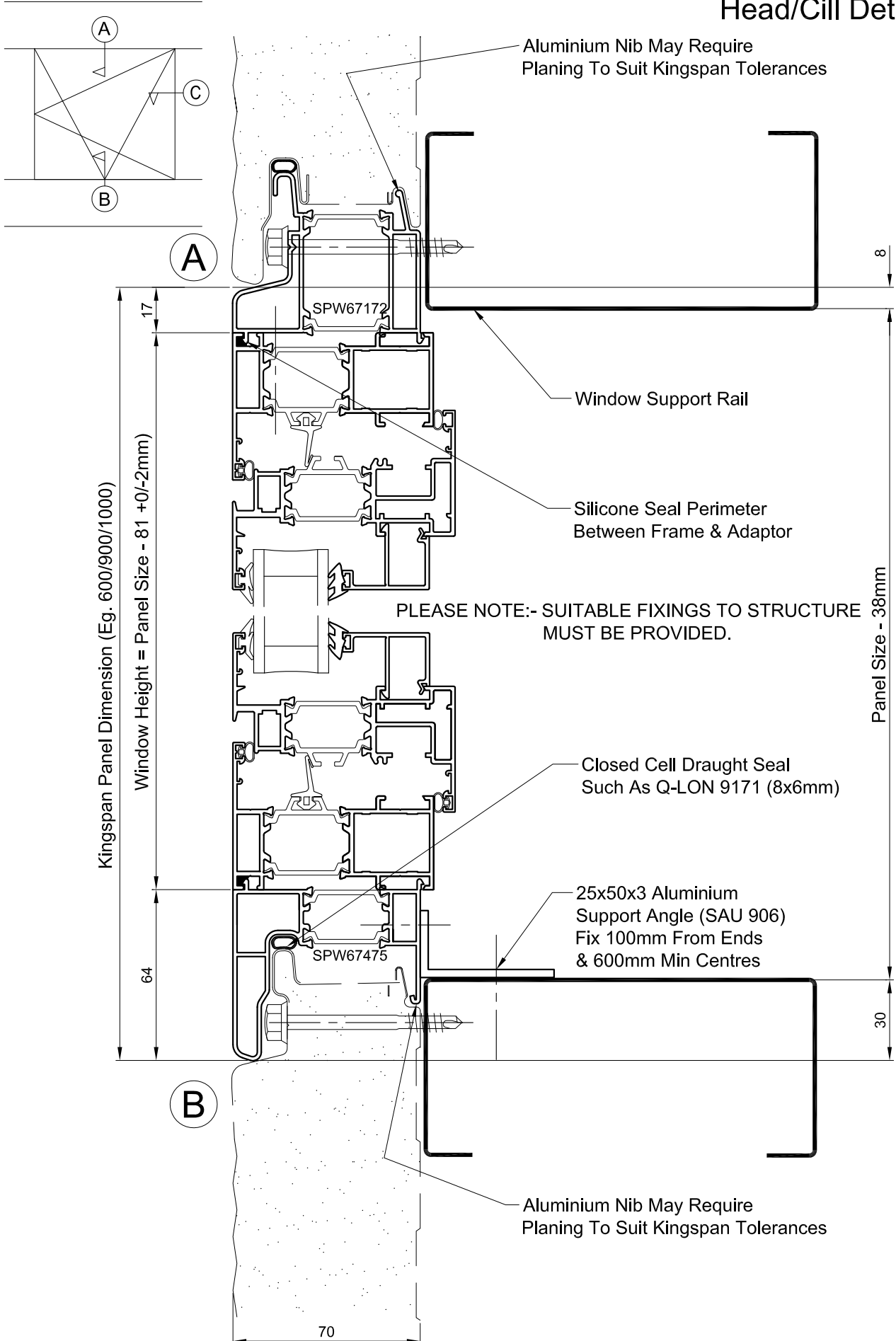
SPW600e Inward Opening

SPW600e.G.208

190mm Cill

04.12





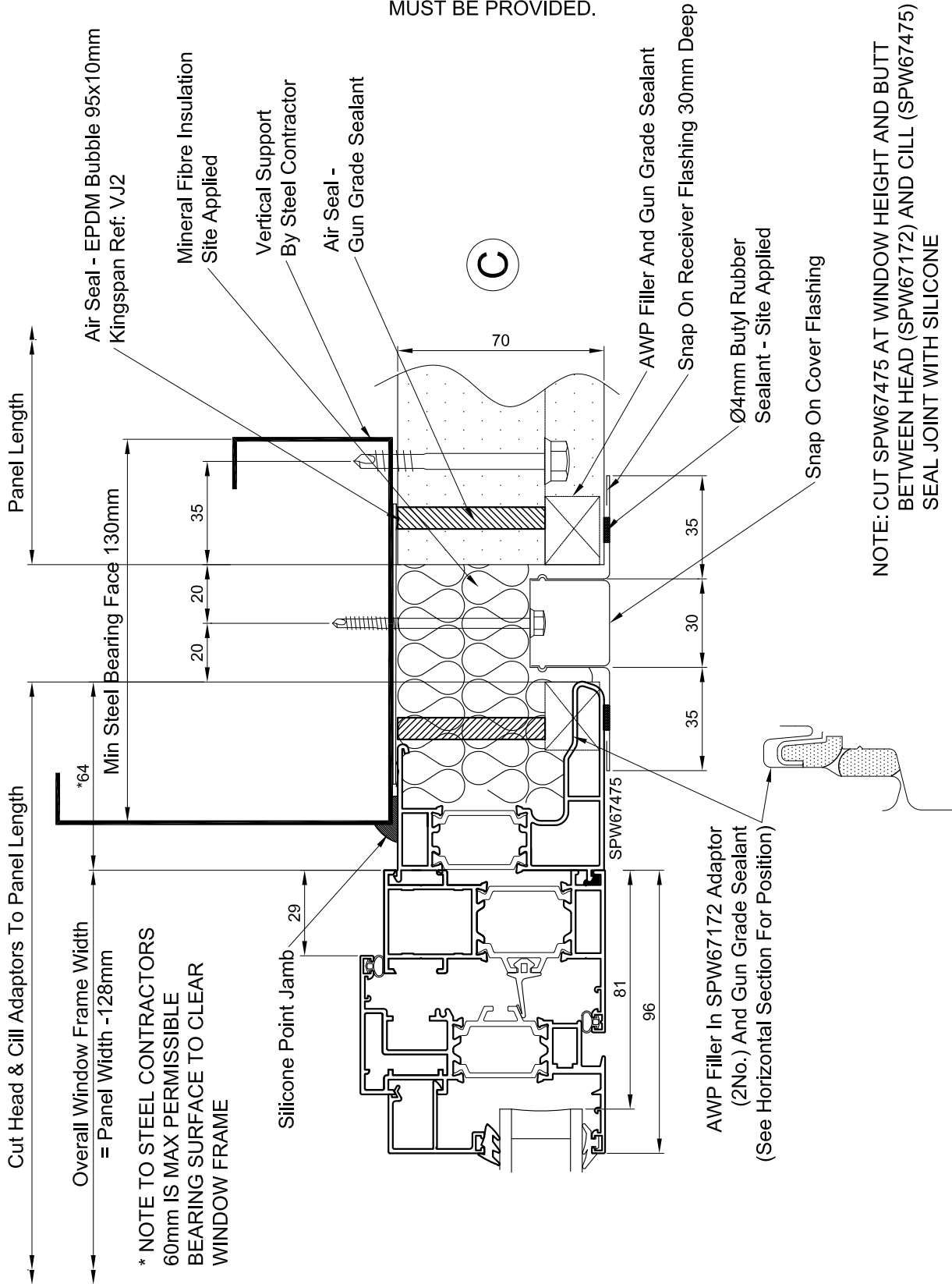
SPW600e Inward Opening SPW600e.H.202

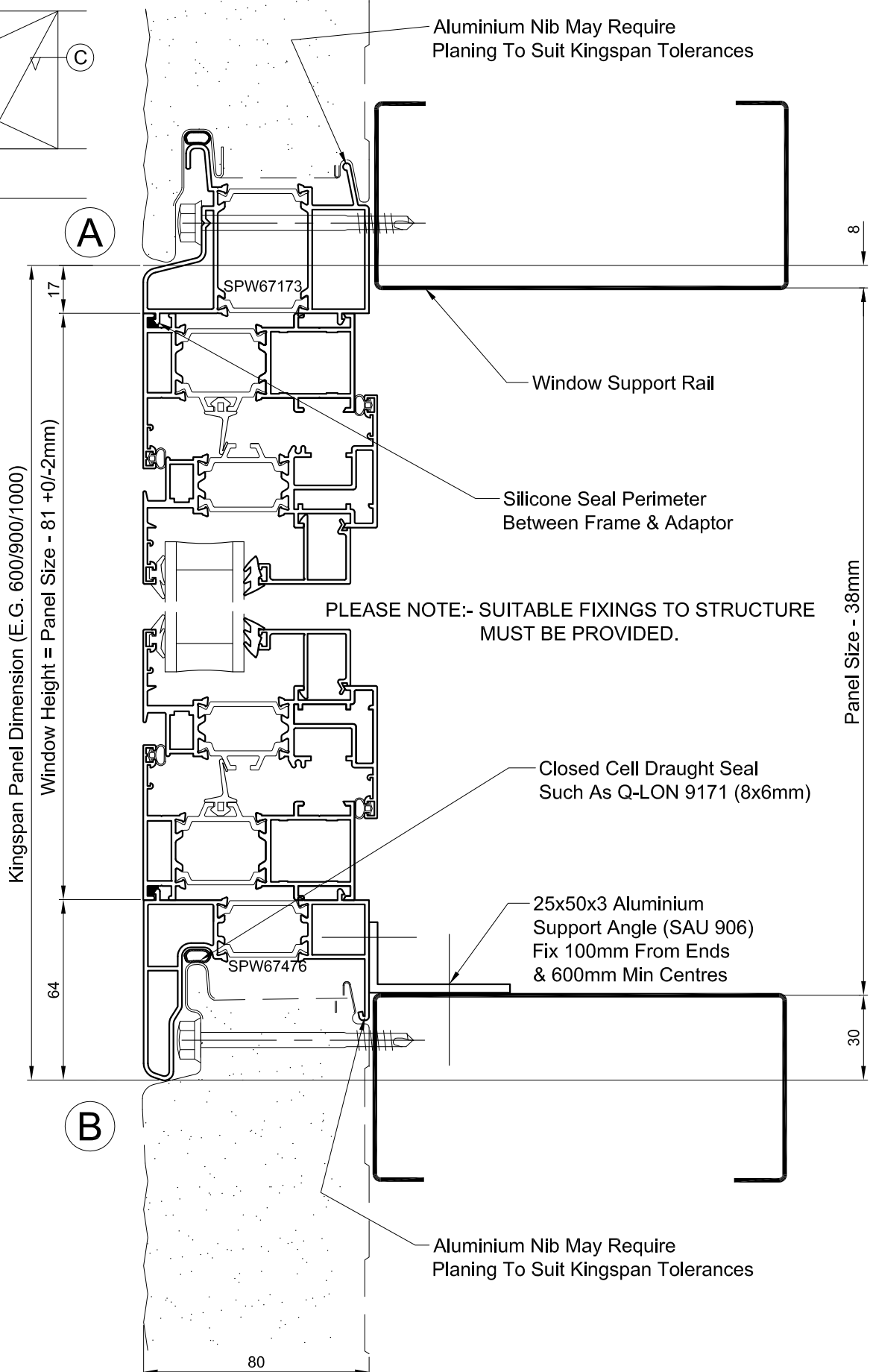
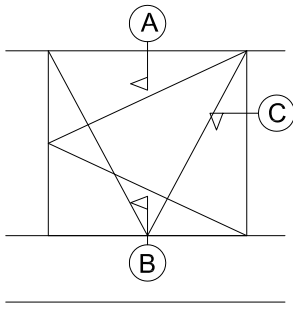
Kingspan Adaptor - 70mm

04.12

Side Jamb Detail

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





SPW600e Inward Opening

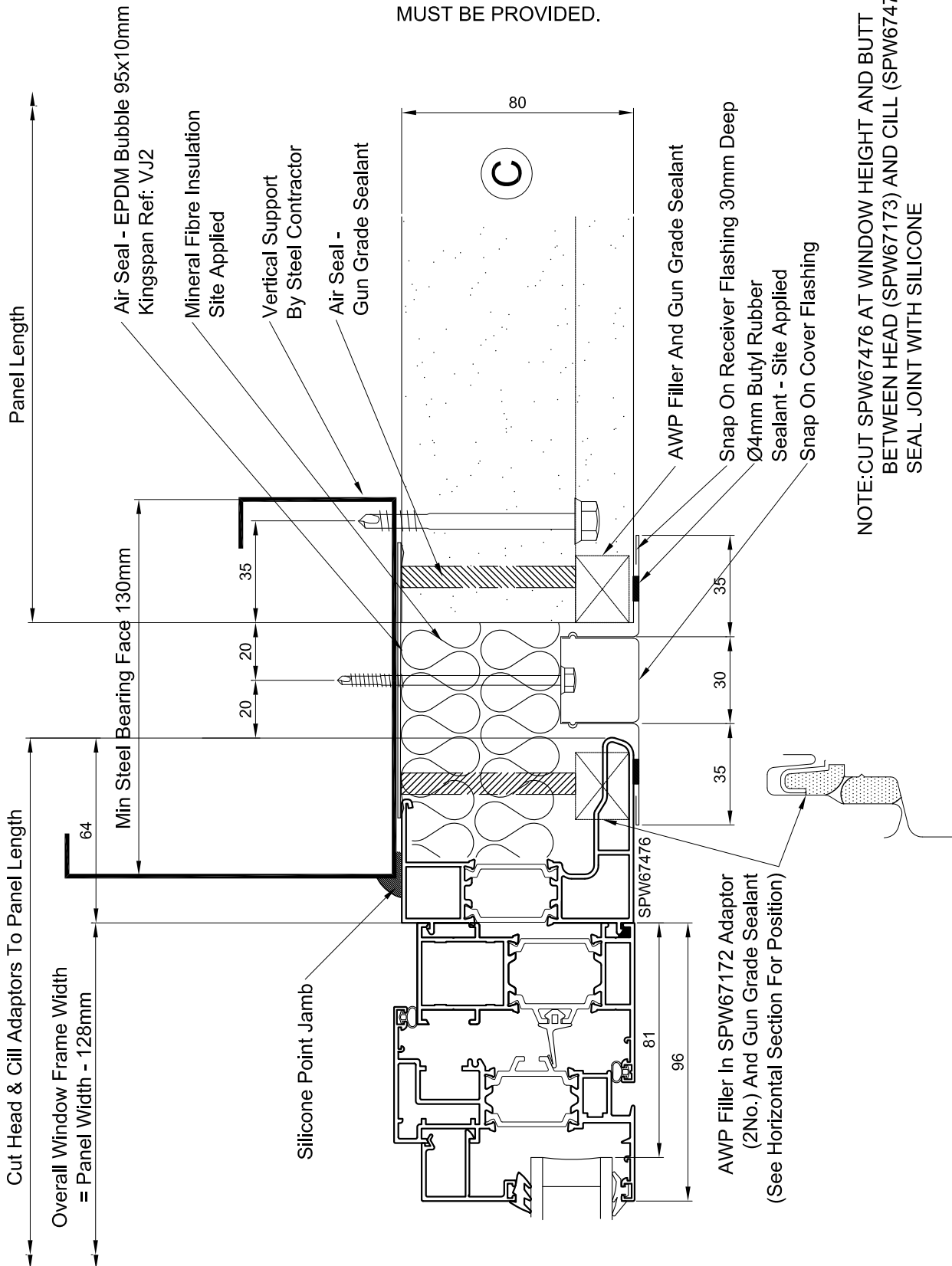
SPW600e.H.204

Kingspan Adaptor - 80mm

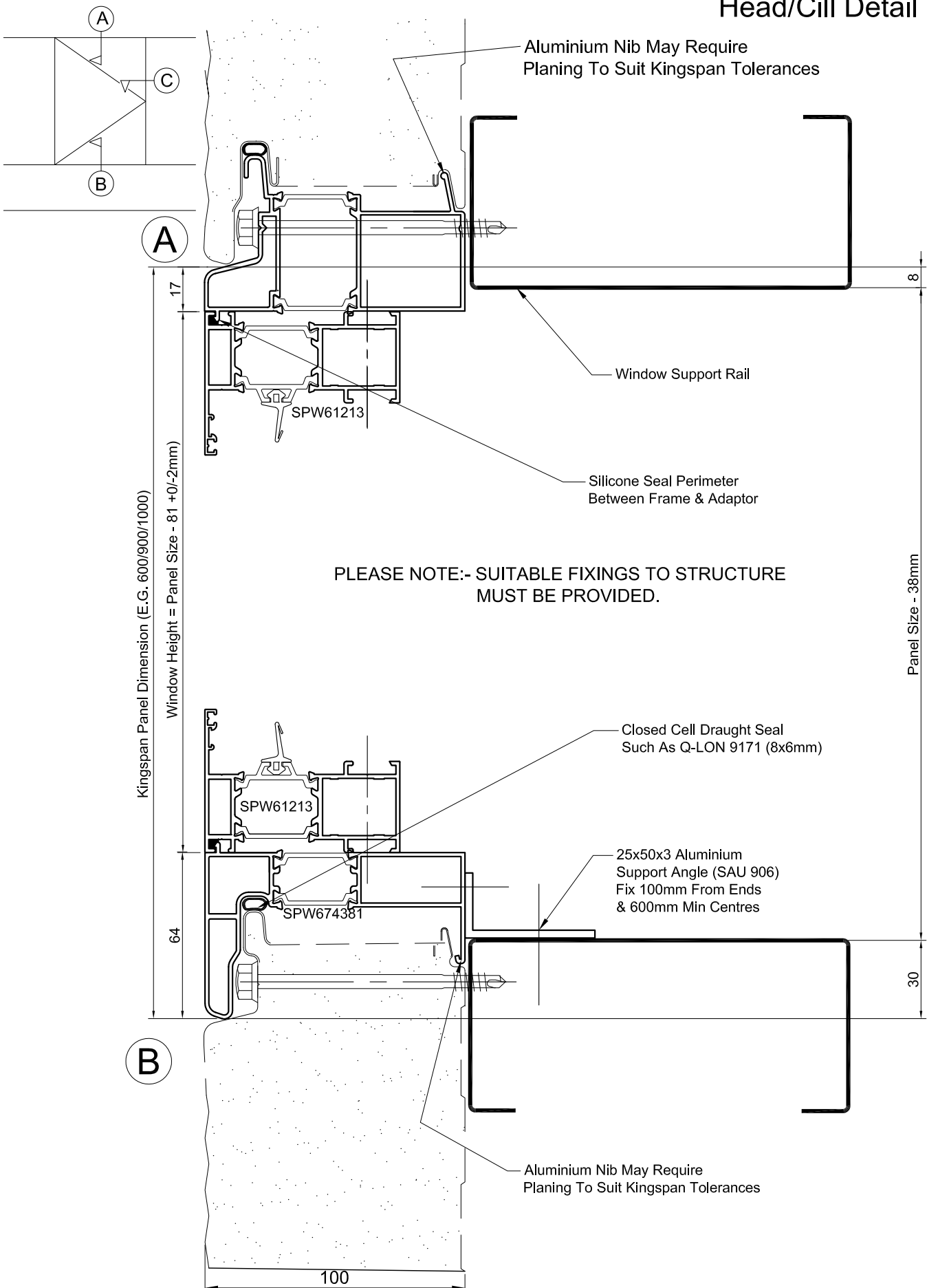
04.12

Side Jamb Detail

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



NOTE: CUT SPW67476 AT WINDOW HEIGHT AND BUTT BETWEEN HEAD (SPW67173) AND CILL (SPW67476) SEAL JOINT WITH SILICONE



SPW600e Inward Opening

SPW600e.H.206

Kingspan Adaptor - 100mm

04.12

Side Jamb Detail

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

