Main Index

EF Index **Index**..... A01 - A02

A EF **Profiles**

Specification Pages..... A03 - A06
Technical Information..... A07
Scale Profile Drawings..... A08 - A12

B EF **Accessories**

Photos & Drawings..... B03 - B12

C EF **Sections**

Scale Elevations..... C03 - C10

D EF **Statics**..... D01 - D02

E EF **Construction Drawings**

Corner Joint Details..... E03
Drainage Details..... E04
ACUN456 Hinge Details..... E05 - E06
Side Hung AOV..... E07
Double Botttom Hung AOV..... E08
Glazing Charts..... E09

F EF **Sawing Tables**

Side Hung AOV..... F03
Bottom Hung AOV..... F04
Double Bottom Hung AOV..... F05

Updates

DATE	PAGE	DESCRIPTION

Specification

GENERAL DESCRIPTION

The "Smart AOV" system described in this manual is designed to offer a modern aluminium thermally broken Natural Smoke and Heat Exhaust Ventilator compliant to EN 12101-2

The details in this manual show sections and accessories required to fabricate a AOV compliant with European standard EN 12101-2.

The AOV was tested using SECO Ni 24 40 actuators supplied by SE Controls.

Please contact SE Controls to discuss size limits for each project.

Please contact the Technical Department for further details on achieving compliance.

Smart AOV sections require a pneumatic crimper with specific tooling designed for the sections and cleats. The tooling may be bought from your crimper manufacturer or via Jade Engineering.

Jade Engineering:
Tel: 024 7636 5336
Email: sales@jade-eng.co.uk

PROFILE SPECIFICATION

The frames are constructed of aluminium alloy extrusion to BS EN 755-9 and BS EN 12020, extruded to 6063 T6 alloy. The internal and external extrusions are separated with a polyamide thermal break.

The external aluminium alloy extrusion is pre-treated and finished either:-

a) Anodised to BS 3987: 1987, grade AA25 to a natural self colour.

b) Polyester powder organic coating to BS 6496. Dual colour is available.

GENERAL MANUFACTURING

Frames are made by cutting the profiles with accurate 45° mitred ends using Tungsten Carbide Tipped Saw Blades, operating at approximately 3000 rpm.

The corners are joined using crimping cleats to form a cold forged corner joint (made by deforming small slugs of metal into the groove of the corner cleat).

The ends of transoms and mullions are profiled to fit the frame and fixed using self-tapping screws with a small joint sealant.

On polyester powder coated finishes, great care should be taken to avoid getting gap sealer on visible surfaces and should be removed as soon as possible with a clean cloth.

Care should be exercised when using products not supplied by Smart Systems Ltd as no responsibility can be accepted.

Specification

DRAINAGE

As with all dry glazed systems, it is recommended that the system is adequately drained and ventilated. Refer to drainage details in manual, if in doubt ask The Technical Department.

In order to get maximum performance and weather resistance it is recommended that drips are used over all vents.

FRAME MANUFACTURING INFORMATION

The frame members are cut with 45° mitred ends to the overall size required, measured to the longest point of the metal.

Prior to corner crimping the centre line position of any transoms or mullions should be marked on the outer frame members. Where the transom/mullion runs right through, it should be marked out on both jambs or head and cill members in pairs to ensure accurate alignment of the sections.

Using the marked centre line, Drill the transom/mullion fixing holes using a 5mm dia. drill bit.

Corners are formed by coating the cut faces to be joined with a suitable small gap sealer. Into the mitred corner insert the cleat glue and the required corner cleats and, where required, the corner chevrons. The two mitred ends are then brought together and crimped. The small gap sealer ensures a permanent joint and guards against the ingress of moisture and joint movement. After crimping the corner joint, special care should be taken to ensure any excess sealer is removed from painted surfaces.

Transoms or mullions are cut with square ends to the sizes calculated on the cutting formula sheets. The ends are then profiled to allow them to fit into the outer frame. Special tooling is available on request to profile the end of transom/mullion.

Prior to fixing of transoms and mullions smear the cut ends with a suitable small gap sealer. After fixing, special care should be taken to ensure any excess is cleared from painted surfaces.

Specification

GLAZING

All beads are cut to suit the glazing aperture on the fully assembled window for glazing either at factory or on site as required.

INTERNALLY BEADED GLAZING

Glazing beads are fitted to openings by cutting the horizontal beads square to head and cill of each vent and fixed light area. Vertical beads are cut square at both ends. Insert bottom beads and two setting blocks to ensure glass will be centralized in vertical dimension of opening (glazing blocks must be full width of cavity to fully support glass or sealed unit), then insert top bead followed by side beads. Finish glazing by insertion of internal gaskets all round except in the case of 28mm glazing where glazing tape is used in conjunction with vent profile W20026.

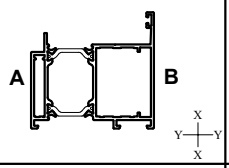
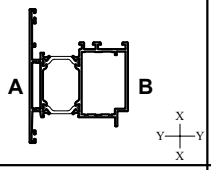
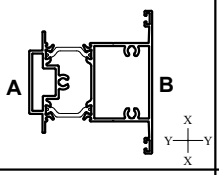
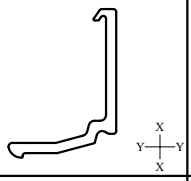
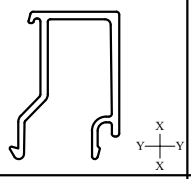
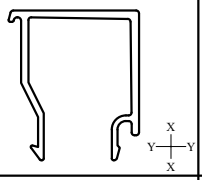
SIZE LIMITATIONS

SE Controls AOV Certifiable Parameters - Smart AOV							
Configuration	**Max. Width**	**Max. Height**	**Min. Width**	**Min. Height**	**Max. Weight**	**Hinges**	**Actuator**
Side Hung	1200mm	1500mm	500mm	685mm	120kg	ACUN456 3 Leaf Flag	SECO Ni 24 40 Single
Side Hung	1200mm	2500mm	500mm	1350mm	120kg	ACUN456 3 Leaf Flag	SECO Ni 24 40 Twin
Bottom Hung	1500mm	1200mm	685mm	500mm	120kg	ACUN456 3 Leaf Flag	SECO Ni 24 40 Single
Bottom Hung	2000mm	1200mm	1350mm	500mm	120kg	ACUN456 3 Leaf Flag	SECO Ni 24 40 Twin

Important Note: Please contact SE Controls to discuss size limits for each project.

For advise on sizes outside of the recommended design limitations, please contact the Technical Department at Smart Systems Ltd Tel: 01934 876100

Specification

Number	Picture	Page	Perim. mm	Mec. mm	Ix(cm4) wx(cm3)	Iy(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
EF414		A40	348.4	124.8	28.67 — 8.72	13.76 — 3.78	7	1	✓	✓	✓	✓	✓
EF425		A41	458.2	160.6	33.16 — 8.74	24.3 — 5.2	7	1	✓	✓	✓	✓	✓
EF434		A35	354.9	177	32.18 — 9.33	17.49 — 4.64	6.5	1	✓	✓	✓	✓	✓
GL004		A58	88.6	24.6	- — -	- — -	6.5	1	✓	✓	✓	✓	
GL016		A58	146.7	37.3	- — -	- — -	6.5	1	✓	✓	✓	✓	
GL023		A58	160.2	44.3	- — -	- — -	6.5	1	✓	✓	✓	✓	

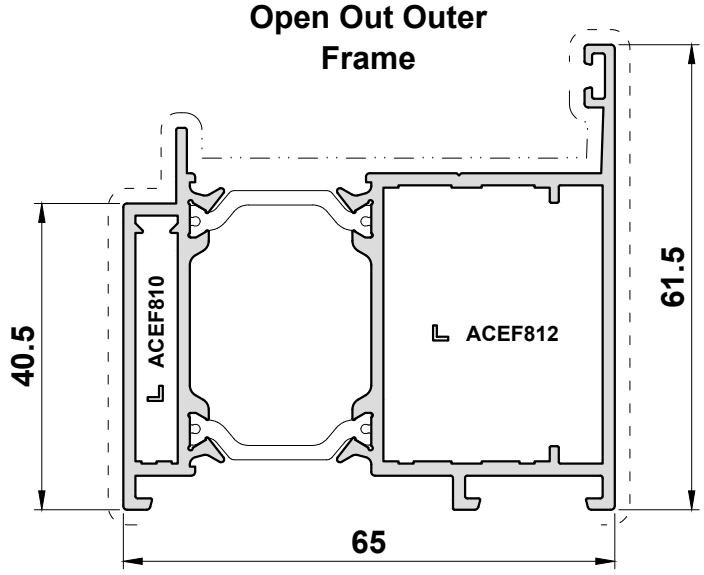
A = Outside
B = Inside

MF = Mill Finish
SA = Silver Anodised
KL = Basic Colour
HP = Special Colour
M = Dual Colour

Primary Visible Side - - - - - - - - - - - - - - - - - - Secondary Visible Side —·—·—·—·—·—·—·—

EF414

Open Out Outer Frame

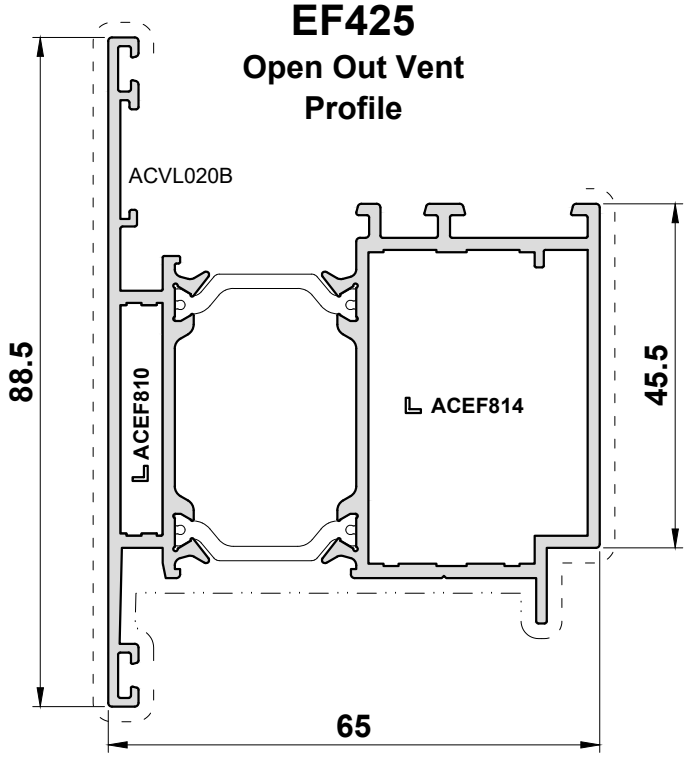


Scale 1:1

Primary Visible Side - - - - - - - - - - - - - - - - - - Secondary Visible Side — · — · — · — · — · — · —

EF425

Open Out Vent Profile

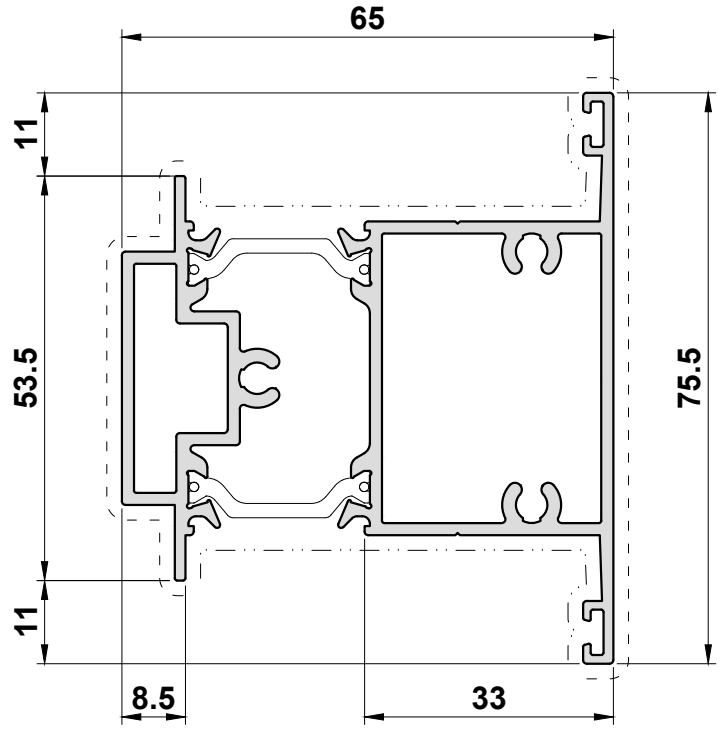


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EF434

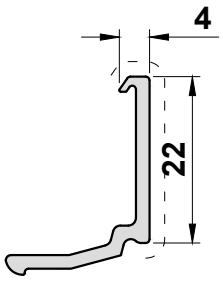
Transom Profile



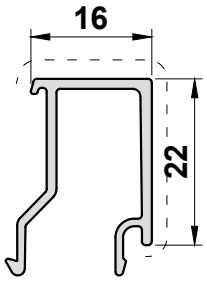
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Primary Visible Side - - - - - - - - - - - - - - - - - - Secondary Visible Side — · — · — · — · — · — · —

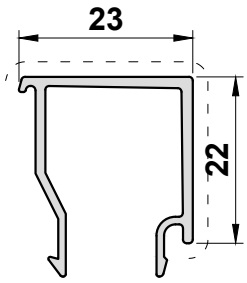
GL004



GL016



GL023



Scale 1:1

PROFILE : SCALED PROFILE DRAWINGS

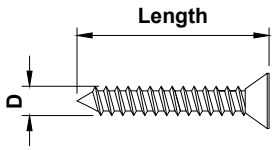
Primary Visible Side – – – – – – – – – – – – – – – – – – **Secondary Visible Side** — · · — · · — · · — · · — · · — · · —

Section B

Accessories

Photos & Drawings

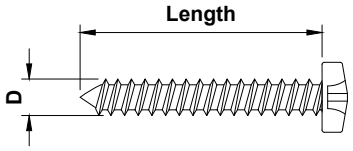
Countersunk Screws



Gauge	'D' (mm)
No.6	3.5
No.7	3.8
No.8	4
No.10	5
No.12	6

Part Number	Gauge	X	Length	Description	Box Qty.
ACUN3530	No.6	X	5/8"	Countersunk Pozi Self Tapper S/S	100
MUA025SSZ	No.6	X	1"	Countersunk Pozi Self Tapper S/S	100
ACET067	No.7	X	1/2"	Countersunk Pozi Self Tapper S/S	100
ACET060	No.7	X	1"	Countersunk Pozi Self Tapper S/S	100
ACET066	No.7	X	1 1/2"	Countersunk Pozi Self Tapper S/S	100
MUA067SSZ	No.7	X	2"	Countersunk Pozi Self Tapper S/S	100
ACUN3544	No.7	X	3/4"	Countersunk Pozi Self Tapper S/S	100
ACET064	No.8	X	5/8"	Countersunk Pozi Self Tapper S/S	100
ACUN3512	No.8	X	1 1/4"	Countersunk Pozi Self Tapper S/S	100
ACUN3513	No.8	X	1 3/4"	Countersunk Pozi Self Tapper S/S	100
ACET072	No.8	X	2 1/2"	Countersunk Pozi Self Tapper S/S	100
ACET490	4.3mm	X	16mm	Countersunk PH2 Polyamide Screw	1000
ACET290	4.3mm	X	20mm	Countersunk PH2 Polyamide Screw	100
ACET390	4.3mm	X	25mm	Countersunk PH2 Polyamide Screw	200
ACET190	4.3mm	X	45mm	Countersunk PH2 Polyamide Screw	1000
ACVS062	4.3mm	X	65mm	Countersunk PH2 Polyamide Screw	1000
ACET048	No.10	X	3/8"	Countersunk Pozi Self Tapper S/S	100
ACIM062	No.10	X	1 1/4"	Countersunk Pozi Self Tapper S/S	100
ACET062	No.10	X	2"	Countersunk Pozi Self Tapper S/S	100
ACET076	No.10	X	2 1/2"	Countersunk Pozi Self Tapper S/S	100

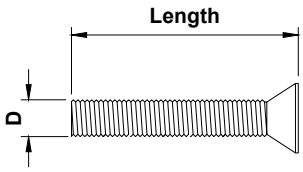
Pan Head Screws



Gauge	'D' (mm)
No.6	3.5
No.7	3.8
No.8	4
No.10	5
No.12	6

Part Number	Gauge	X	Length	Description	Box Qty.
ACET068	No.8	X	3/8"	Pozi Flange AB	100
ACET063	No.8	X	1/2"	Pan Head Self Tapper	100
ACET070	No.8	X	1/2"	Pozi Flange Self Tapper S/S	100
ACUN3535	No.8	X	5/8"	Pan Head Pozi S/S	100
ACET099	No.8	X	3/4"	Pozi Flange Self Tapper S/S	100
ACDR050	4.8mm	X	32mm	Pan Head Pozi S/S	200
PUA028	No.10	X	1"	Pan Head Pozi S/S	100
ACDR052	No.10	X	2"	Pan Head Self Tapper S/S	200
ACET079	No.10	X	2 1/2"	Pan Head Pozi S/S	100
ACW20160	No.12	X	1"	Flange Head Self Tapper S/S	100
ACMC109	6.3mm	X	38mm	DIN7981 - Pan Head Self Tapper	200

Machine Screws



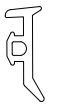
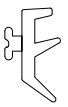
Thread	'D' (mm) Nominal
M4	4
M5	5
M6	6
M8	8
M10	10

Part Number	Thread	X	Length	Description	Box Qty.
ACET122	M4	X	10	CSK Pozi Machine Screw	100
ACET123	M4	X	20	CSK Pozi Machine Screw	100
ACDV264	M4	X	35	CSK Pozi Machine Screw	100
ACSG071	M4	X	40	CSK Pozi Machine Screw	100
ACDV266	M4	X	45	CSK Pozi Machine Screw	100
ACDV262	M4	X	50	CSK Pozi Machine Screw	100
ACDV265	M4	X	60	CSK Pozi Machine Screw	100
ACDR051	M5	X	10	CSK Pozi Machine Screw	100
ACET069	M5	X	12	CSK Pozi Machine Screw	100
HEA132	M5	X	16	CSK Pozi Machine Screw	100
WCA134	M5	X	20	CSK Pozi Machine Screw	100
WCA143	M5	X	25	CSK Pozi Machine Screw	50
ACVS061	M5	X	40	CSK Pozi Machine Screw	100
ACET133	M5	X	50	CSK Pozi Machine Screw	100
ACET220	M5	X	60	CSK Pozi Machine Screw	100
ACET238	M5	X	70	CSK Pozi Machine Screw	100
ACMX861	M5	X	80	DIN965 - CSK Machine Screw	10
ACMX862	M5	X	90	DIN965 - CSK Machine Screw	10
ACUN3503	M6	X	10	CSK Socket Machine Screw	24
ACUN3501	M6	X	13	CSK Flange Socket Machine Screw	48
ACMX852	M6	X	16	DIN965 - CSK Machine Screw	10
HEA390	M6	X	16	CSK Socket Machine Screw	32
ACET235	M6	X	60	CSK Pozi Machine Screw	100
ACET237	M6	X	70	CSK Pozi Machine Screw	100

Glazing Gaskets

Retaining Gasket

Commonly known as an E Gasket. Retaining gaskets create a seal between the Glass and the Aluminium Profile.

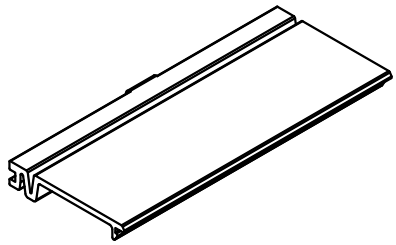
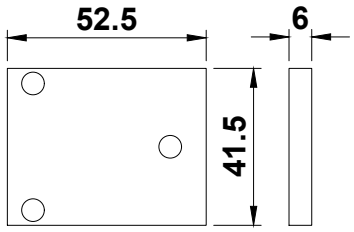
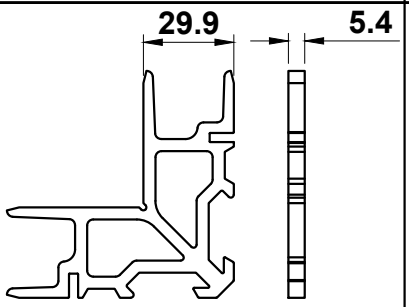
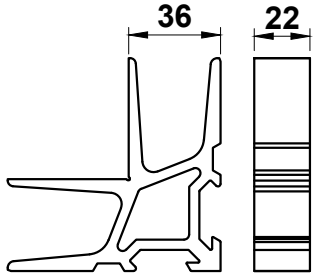
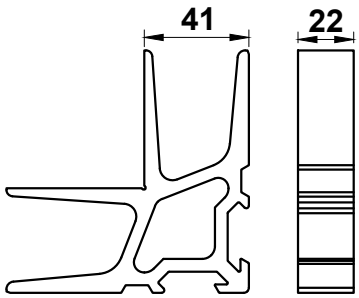
High Line	2mm		**ACVG231**
			200m
			BL
	3mm		**ACVG31**
			200m
			BL
	4mm		**ACVG131**
			100m
			BL
Low Line	2mm		**ACET844**
			200m
			BL
	3mm		**ACET842**
			200m
			BL
	3mm		**ACVG31N**
			200m
			BL
	4mm		**ACET841**
			200m
			BL
	4mm		**ACET835**
			200m
			BL

Thickness	Drawing 1:1	**Part number**
		Coil length
		Available Colours

Wedge Gasket

Wedge Gaskets help to hold the bead in place by providing tension between the bead and the glazing unit.

High Line	3mm		**ACVG32**
			100m
			BL
	3mm		**ACVG32N**
			100m
			BL
	4mm		**ACVG33**
			100m
			BL
	4mm		**ACVG33N**
			100m
			BL
	5mm		**ACVG34**
			100m
			BL
	5mm		**ACVG34N**
			100m
			BL
	6mm		**ACVG340**
			200m
			BL
	6mm		**ACVG340N**
			100m
			BL
Low Line	4mm - 3mm		**ACW20038**
			50m
			BL
	5mm - 4mm		**ACET848**
			200m
			BL

Image	Part Code	Pack	Unit	Application	Colour
	**ACEF057** **Glazing support**	**100**	**pack**	**EF425**	MF SA KL HP SSC SMC W Z ✓ PC
	**ACEF434** **End Pad**	**1**	**each**	**EF434**	MF SA KL HP SSC SMC W Z ✓ PC
	**ACEF810X** **Crimping/ pin cleat corner for outside chamber**	**10**	**pack**	**EF414** **EF425**	MF ✓ SA KL HP SSC SMC W Z PC
	**ACEF812** **Crimping corner for inside chamber**	**24**	**pack**	**EF414**	MF ✓ SA KL HP SSC SMC W Z PC
	**ACEF814** **Crimping corner for inside chamber**	**24**	**pack**	**EF425**	MF ✓ SA KL HP SSC SMC W Z PC





MF	**= Mill Finish**	**W**	**= White**
SA	**= Silver Anodised**	**Z**	**= Black**
KL	**= Basic Colour**		
HP	**= Special Colour**		
SSC	**= Smooth Satin Chrome**		
SMC	**= Smokey Chrome**		
PC	**= Polished Chrome**		

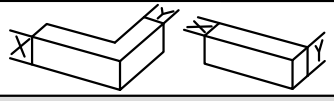
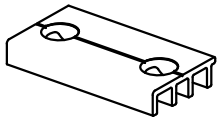
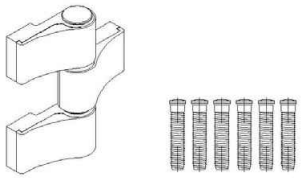
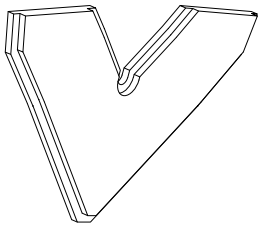
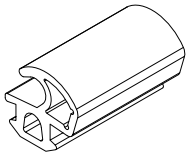


Image	Part Code	Pack	Unit	Application	Colour	
	**ACEF982** **Aluminium Guide Block for Smoke Vent**	**100**	**pack**		MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	**ACGSL045** **Drainage Cap**	**1**	**each**		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	✓
					Z	✓
					PC	
	**ACUN456** **Hinge**	**1**	**each**	**EF425**	MF	✓
					SA	✓
					KL	✓
					HP	✓
					SSC	
					SMC	
					W	✓
					Z	✓
					PC	
	**ACVL020B** **Plastic chevron**	**100**	**pack**	**EF425**	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	✓
					PC	
	**ACVL032N** **Flipper Gasket**	**100**	**m**	**EF414** **EF425** **EF434**	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	✓
					PC	



T-BARS
ACVG65=2.5mm
ACVG66=3.0mm
ACVL150=4.0mm



Screw (Grub)

MF = Mill Finish
SA = Silver Anodised
KL = Basic Colour
HP = Special Colour
SSC = Smooth Satin Chrome
SMC = Smokey Chrome
PC = Polished Chrome
W = White
Z = Black

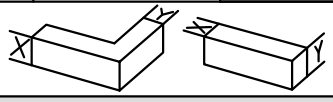


Image	Part Code	Pack	Unit	Application	Colour
	**ACMX09761** **Maxi Gloss**	**1**	**each**		MF SA KL HP SSC SMC W Z PC
	**ACMX09762** **Alu. Bright**	**1**	**each**		MF SA KL HP SSC SMC W Z PC
	**ACMX09763** **Teflon Spray**	**1**	**each**		MF SA KL HP SSC SMC W Z PC
	**ACMX09764** **Maxi Clean**	**1**	**each**		MF SA KL HP SSC SMC W Z PC
	**ACMX09765** **Alu. Cleaner**	**1**	**each**		MF SA KL HP SSC SMC W Z PC



T-BARS
ACVG65=2.5mm
ACVG66=3.0mm
ACVL150=4.0mm



Screw (Grub)

MF	**= Mill Finish**	**W**	**= White**
SA	**= Silver Anodised**	**Z**	**= Black**
KL	**= Basic Colour**		
HP	**= Special Colour**		
SSC	**= Smooth Satin Chrome**		
SMC	**= Smokey Chrome**		
PC	**= Polished Chrome**		

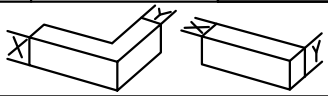
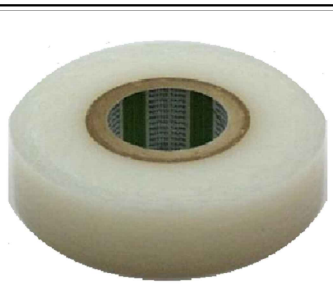
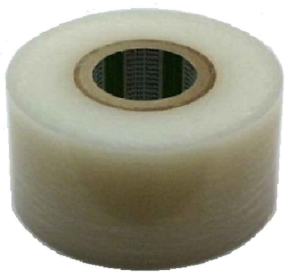
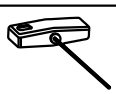


Image	Part Code	Pack	Unit	Application	Colour
	**ACMX09770** **Roll & Wrap 100mm**	1	each		MF SA KL HP SSC SMC W Z PC
	**ACMX09775** **Grip Handwrap**	1	each		MF SA KL HP SSC SMC W Z PC
	**ACMX09801** **Protective Tape 50mm**	1	each		MF SA KL HP SSC SMC W Z PC
	**ACMX09802** **Protective Tape 70mm**	1	each		MF SA KL HP SSC SMC W Z PC
	**ACMX09803** **Protective Tape 100mm**	1	each		MF SA KL HP SSC SMC W Z PC





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HP = Special Colour
SSC = Smooth Satin Chrome
SMC = Smokey Chrome
PC = Polished Chrome
W = White
Z = Black

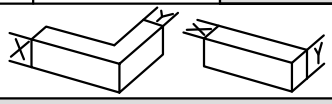
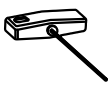


Image	Part Code	Pack	Unit	Application	Colour	
	**ACSIL04** **Sealing Glue** **Order with suffix of KL colour (eg.ACSIL04KL005) or BL=Black/WP=White/ CL=Clear**	**1**	**each**		MF	
					SA	
					KL	✓
					HP	
					SSC	
					SMC	
					W	✓
					Z	✓
					PC	
	**ACSIL05** **Rubber Sealant**	**1**	**each**		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	**ACSIL08** **Silicon Gun**	**1**	**each**		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	**ACSIL013** **Glue for Mitre**	**1**	**each**		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	**ACSIL014** **Anti-Corrosion Coating**	**1**	**each**		MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	



T-BARS
ACVG65=2.5mm
ACVG66=3.0mm
ACVL150=4.0mm



Screw (Grub)

MF	**= Mill Finish**	**W**	**= White**
SA	**= Silver Anodised**	**Z**	**= Black**
KL	**= Basic Colour**		
HP	**= Special Colour**		
SSC	**= Smooth Satin Chrome**		
SMC	**= Smokey Chrome**		
PC	**= Polished Chrome**		

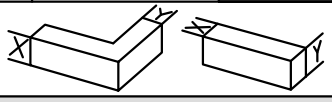
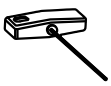
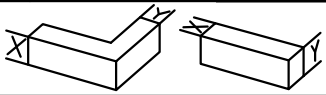


Image	Part Code	Pack	Unit	Application	Colour
	**ACUN3900** **Gasket Roller**	**1**	**each**		MF SA KL HP SSC SMC W Z PC
					MF SA KL HP SSC SMC W Z PC
					MF SA KL HP SSC SMC W Z PC
					MF SA KL HP SSC SMC W Z PC
					MF SA KL HP SSC SMC W Z PC





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SA = Silver Anodised
KL = Basic Colour
HP = Special Colour
SSC = Smooth Satin Chrome
SMC = Smokey Chrome
PC = Polished Chrome
W = White
Z = Black

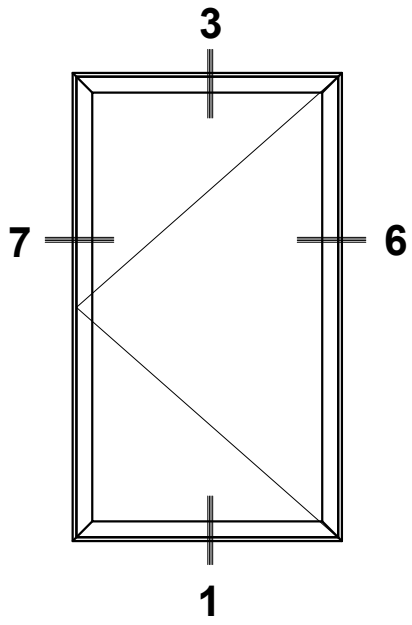


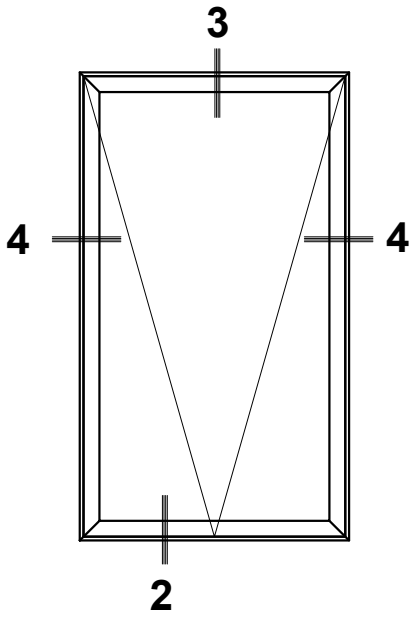
Section C

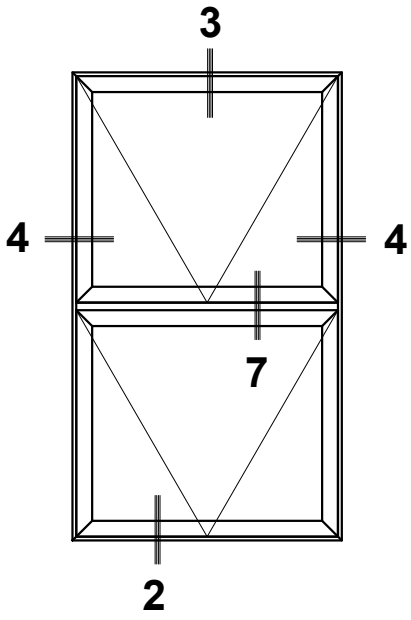
Sections

Scale Elevations

Elevations



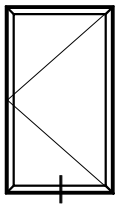


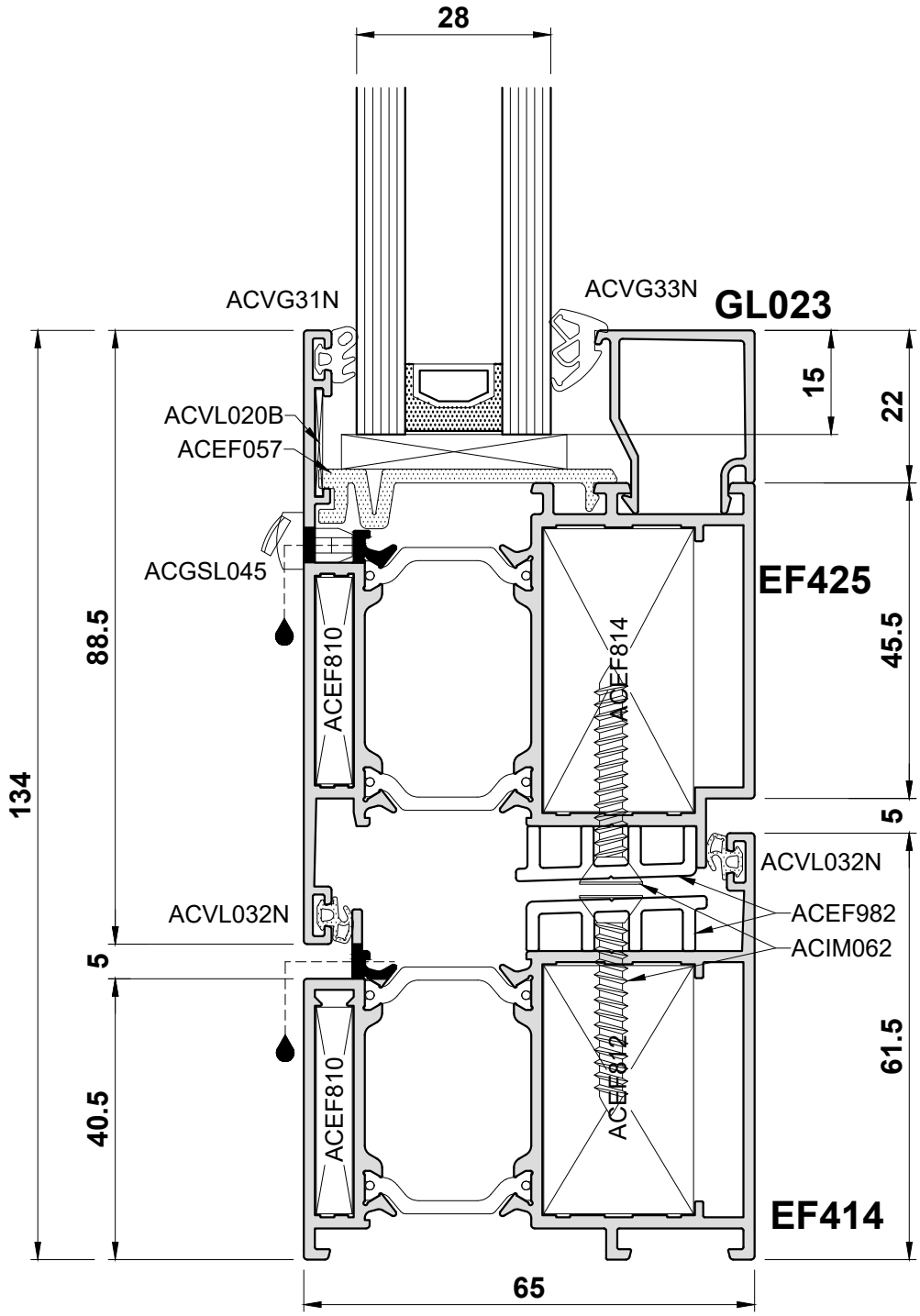


Do Not Scale From This Drawing

Smart AOV

Detail 1



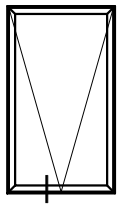


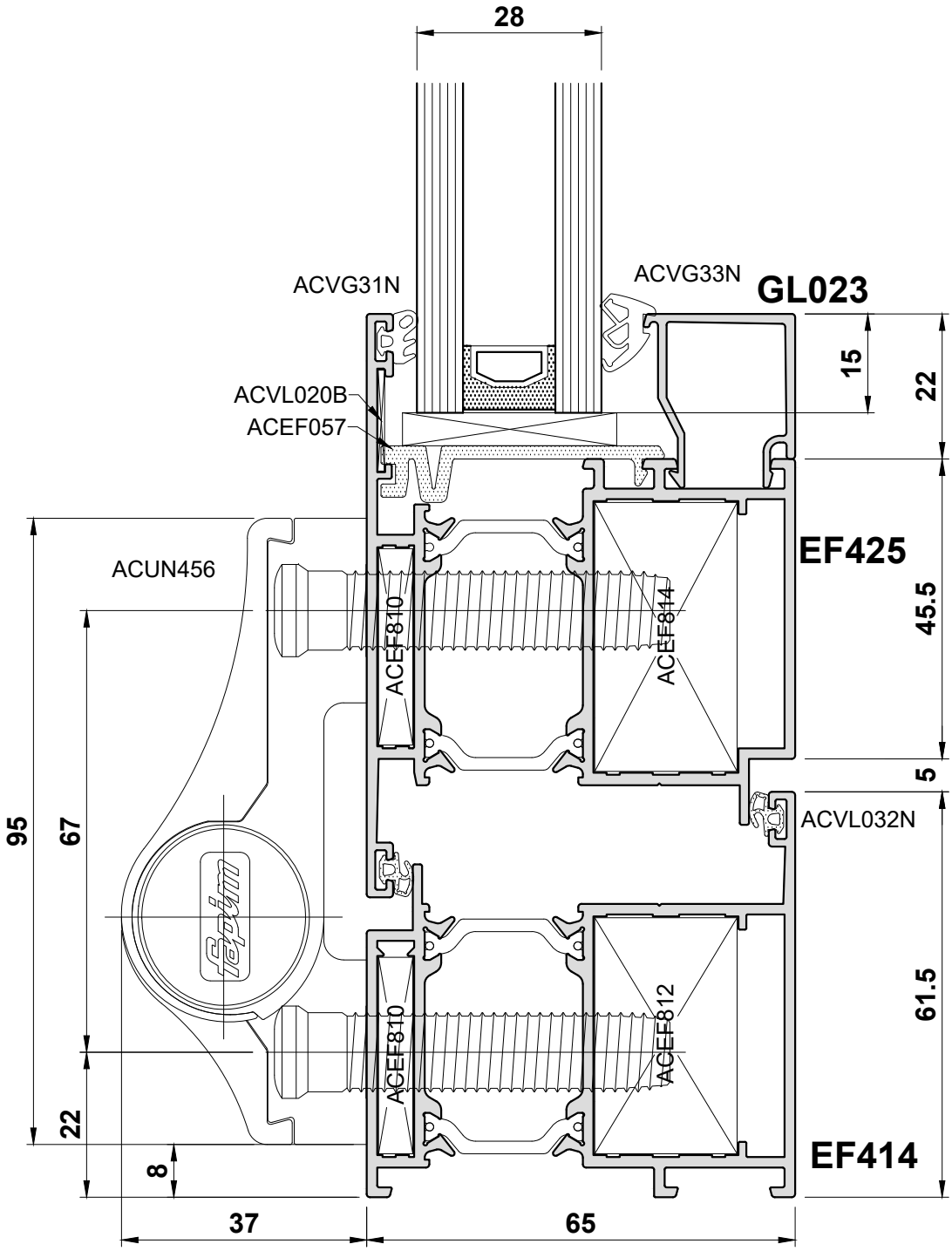
Do Not Scale From This Drawing

ISSUED: AUGUST 2026

Smart AOV

Detail 2

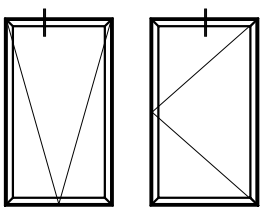


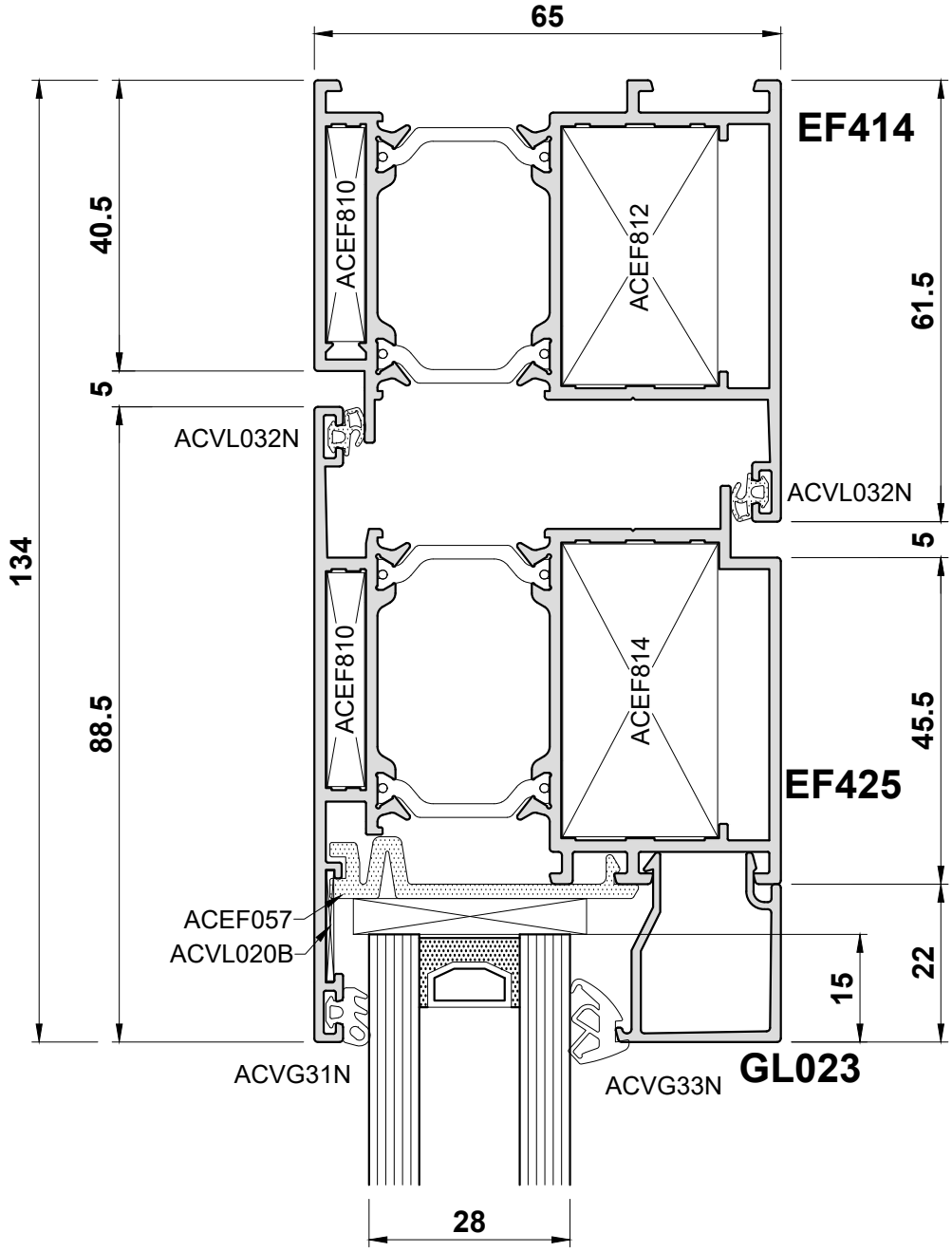


Do Not Scale From This Drawing

Smart AOV

Detail 3



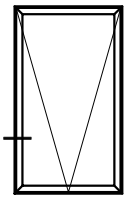


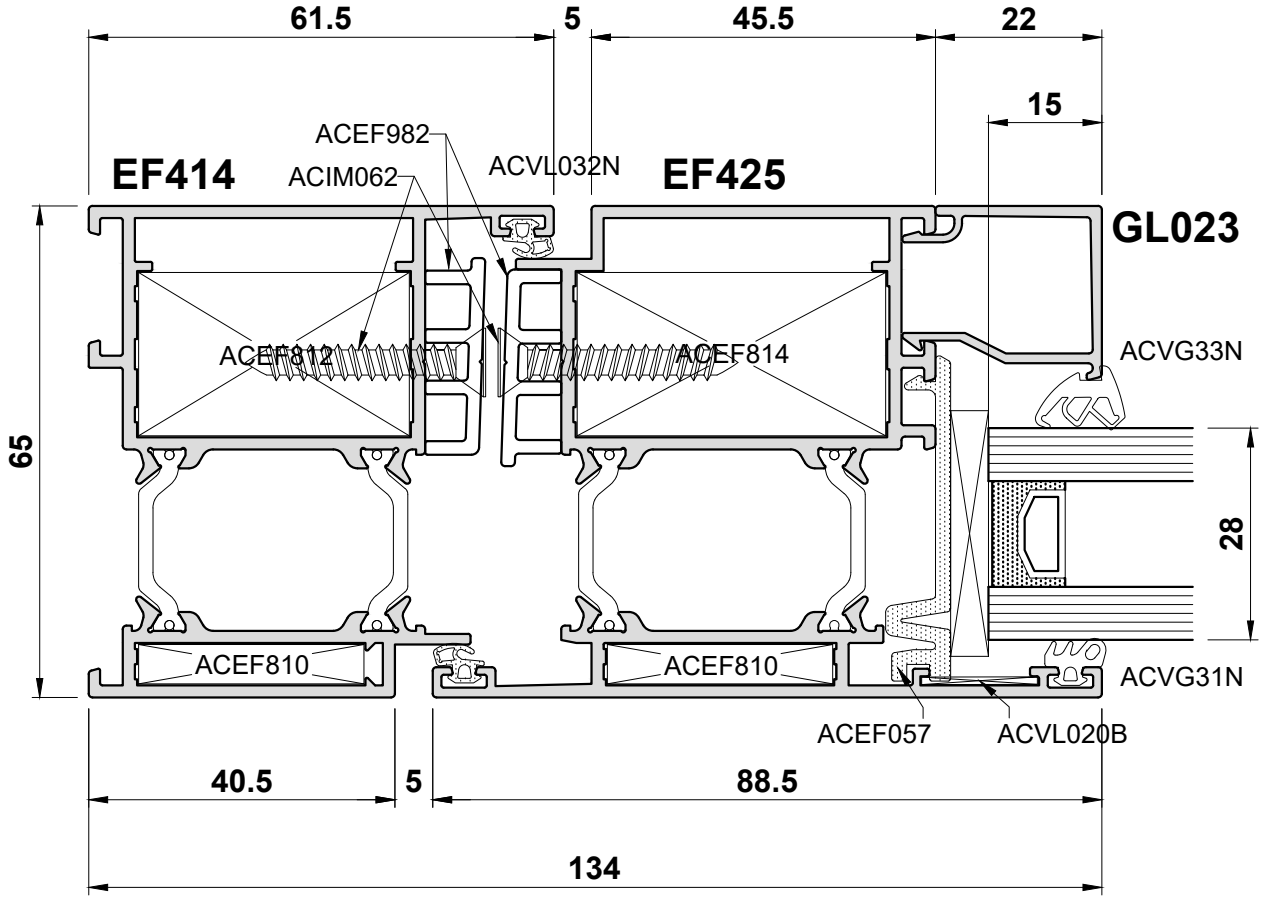
Do Not Scale From This Drawing

ISSUED: AUGUST 2026

Smart AOV

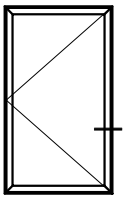
Detail 4

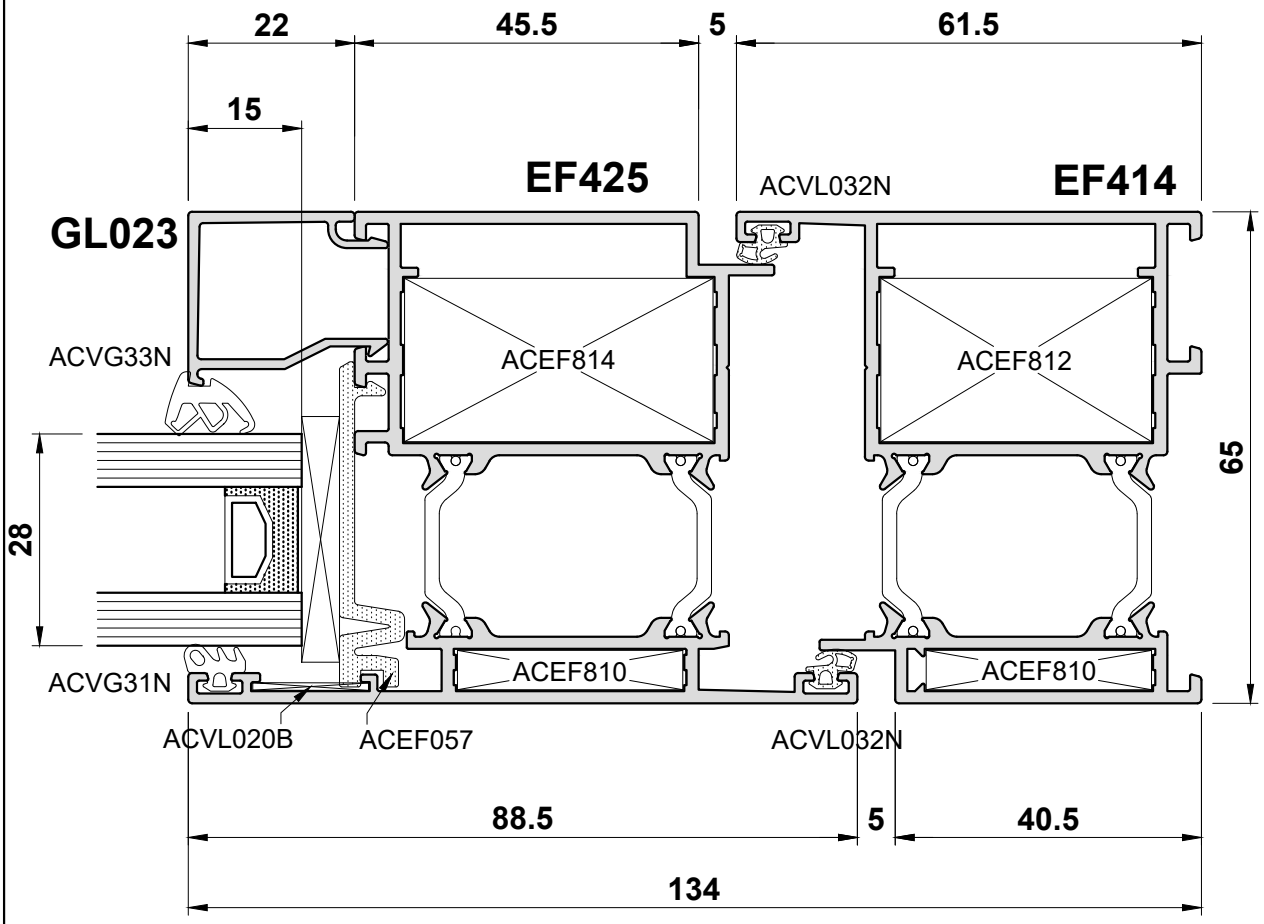




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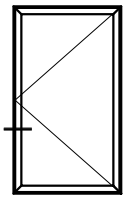
Detail 5

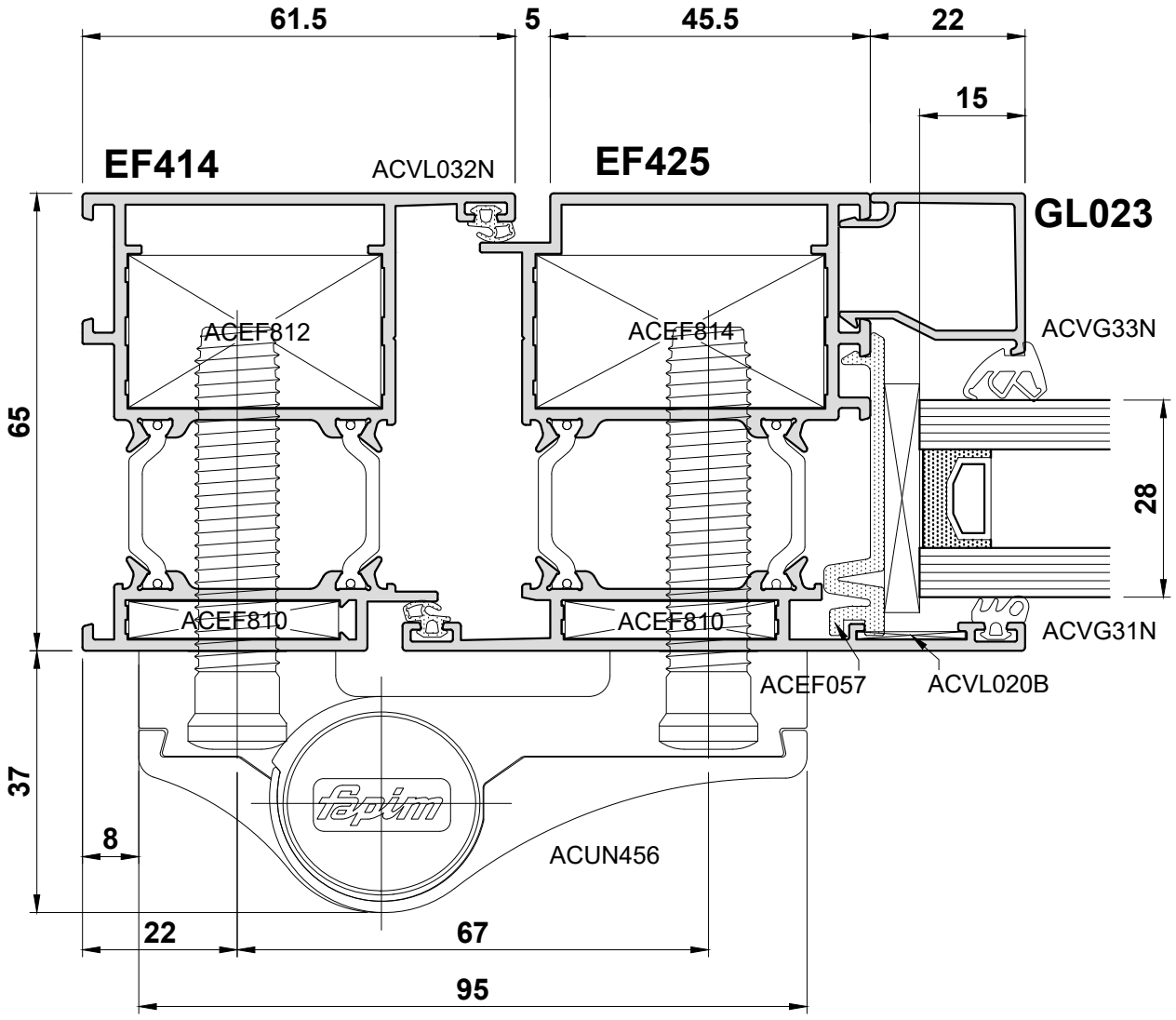




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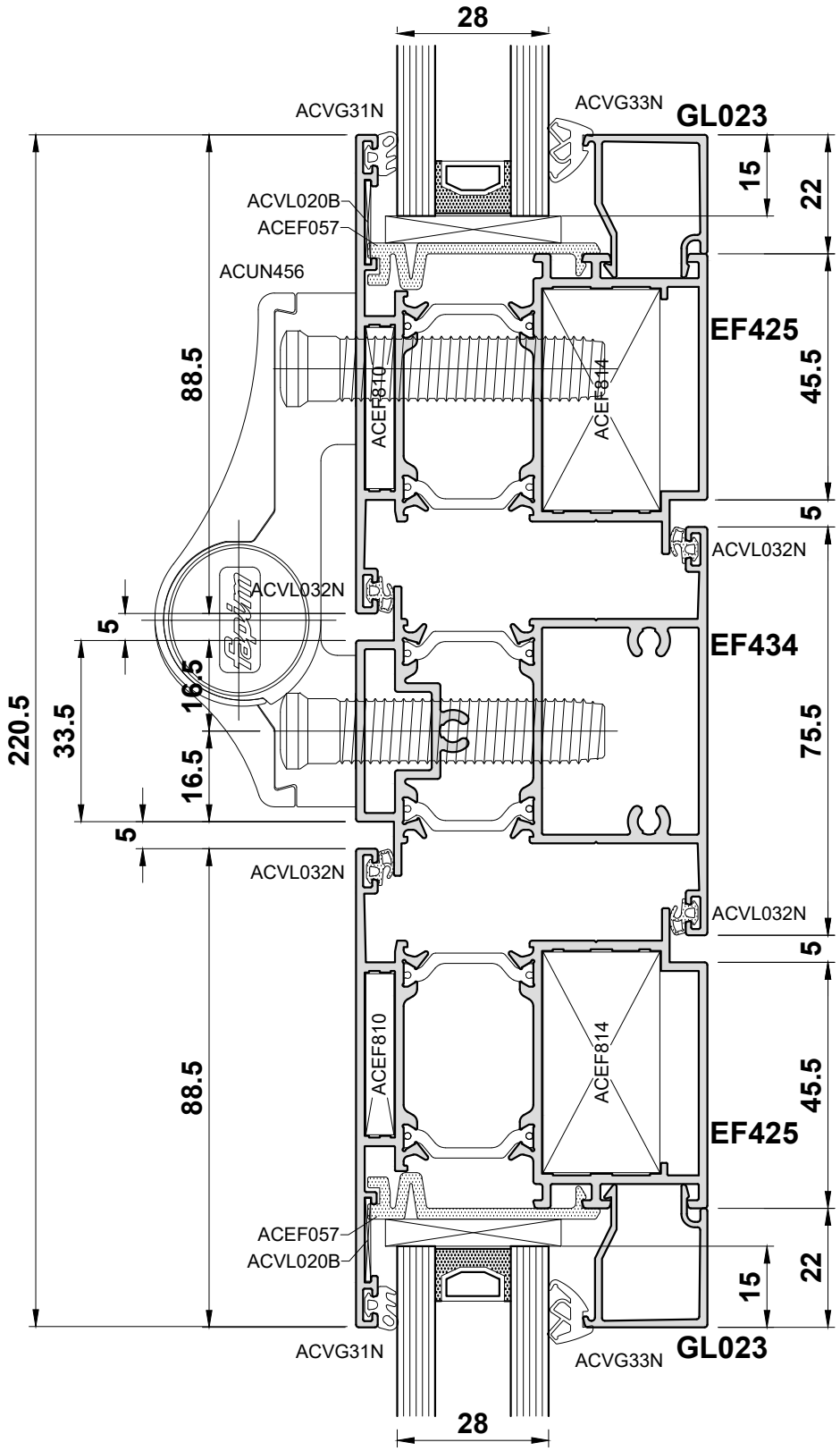
Detail 6





Do Not Scale From This Drawing

Detail 7



Do Not Scale From This Drawing

ISSUED: AUGUST 2026

Section D

Statics

Open Out

For Wind Loading Limitations, Please Contact
The Technical Department - T: 01934 833100

Section E

E | EF

Construction Drawings - Open Out

Corner Joint Details..... E03
Drainage Details..... E04
ACUN456 Hinge Details..... E05 - E06
Side Hung AOV..... E07
Double Botttom Hung AOV..... E08
Glazing Charts..... E09

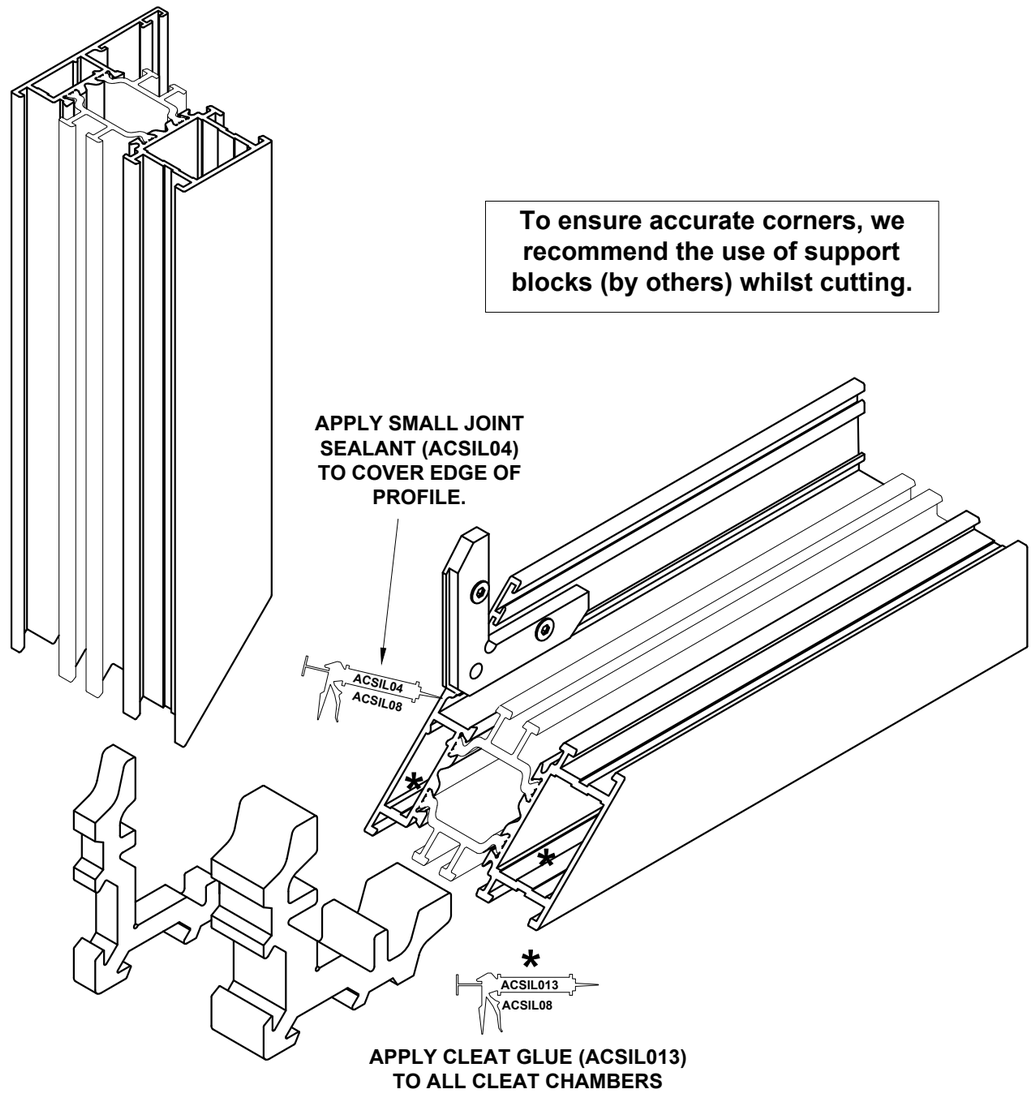
Corner Joint Details

Important Note:

Smarts AOV sections require a pneumatic crimper with specific tooling designed for the sections and cleats. The tooling may be bought from your crimper manufacturer or via Jade Engineering.

Jade Engineering:

Tel: 024 7636 5336
Email: sales@jade-eng.co.uk



To ensure accurate corners, we recommend the use of support blocks (by others) whilst cutting.

Notes

1. **Degrease mitre sections**
2. **Cover mitred faces with ACSIL04**
3. **Apply ACSIL013 to cleat chambers**
4. **Apply ACSIL04 to any fractures formed by crimping to make watertight**

Table 1

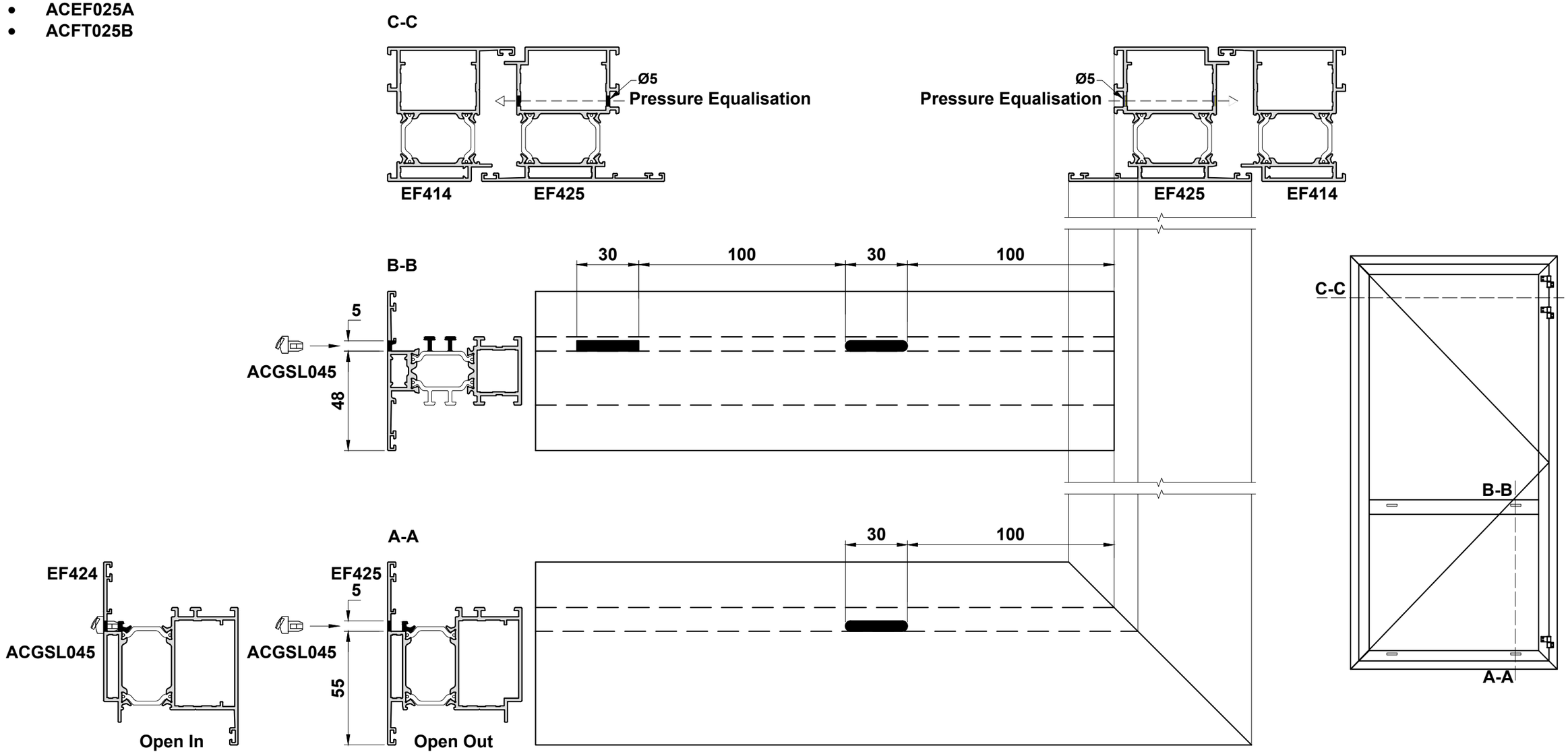
KL Colour	Sealant Part Number
Black	ACSIL04BL
White	ACSIL04WP
Clear	ACSIL04CL
KL001	ACSIL04KL001
KL002	ACSIL04KL002
KL003	ACSIL04KL003
KL004	ACSIL04KL004
KL005	ACSIL04KL005
KL006	ACSIL04KL006
KL007	ACSIL04KL007
KL010	ACSIL04KL010
KL011	ACSIL04KL011
KL012	ACSIL04KL012
KL013	ACSIL04KL013

Do Not Scale From This Drawing

Drainage Details

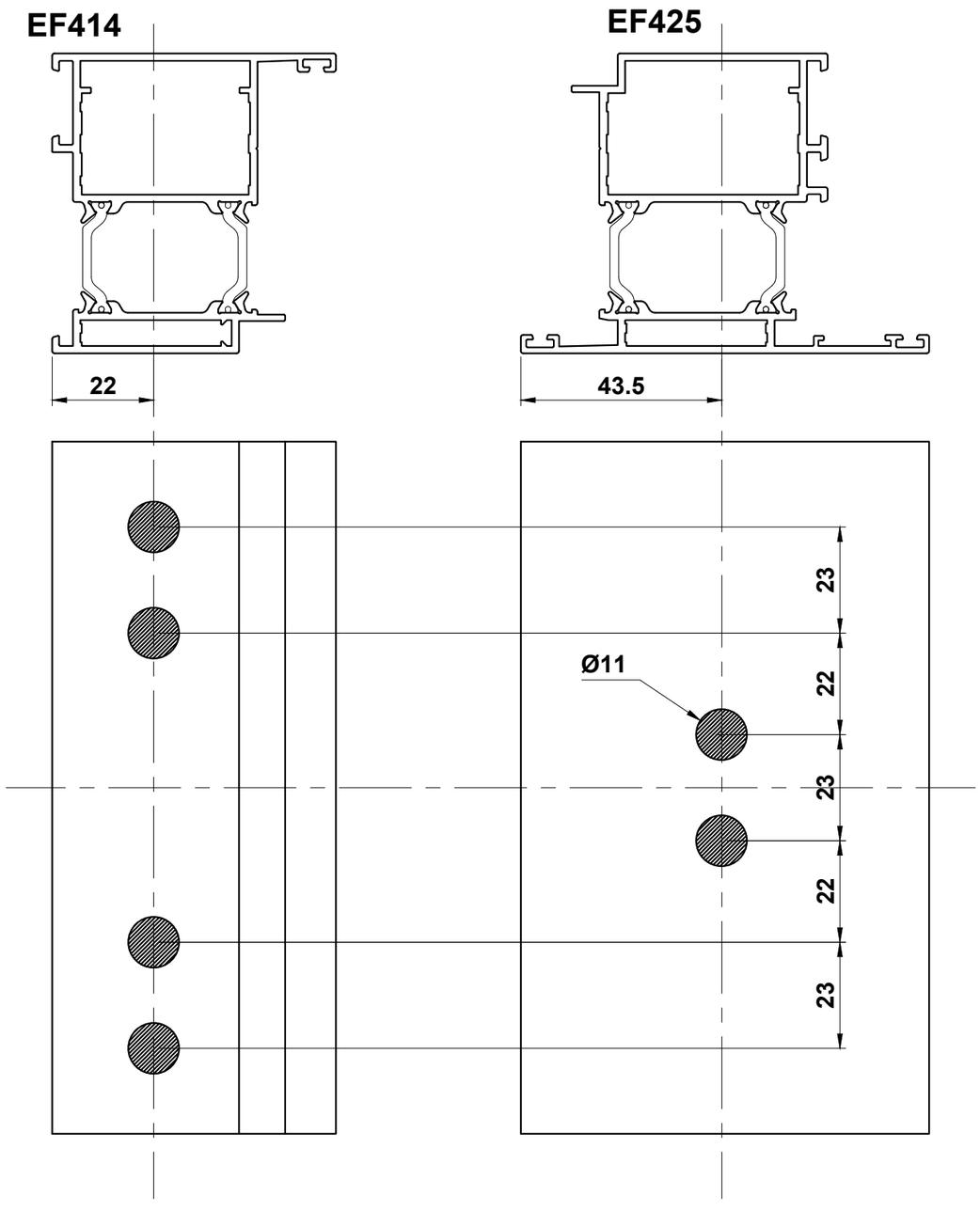
EF030 CLEATS INTO EF425

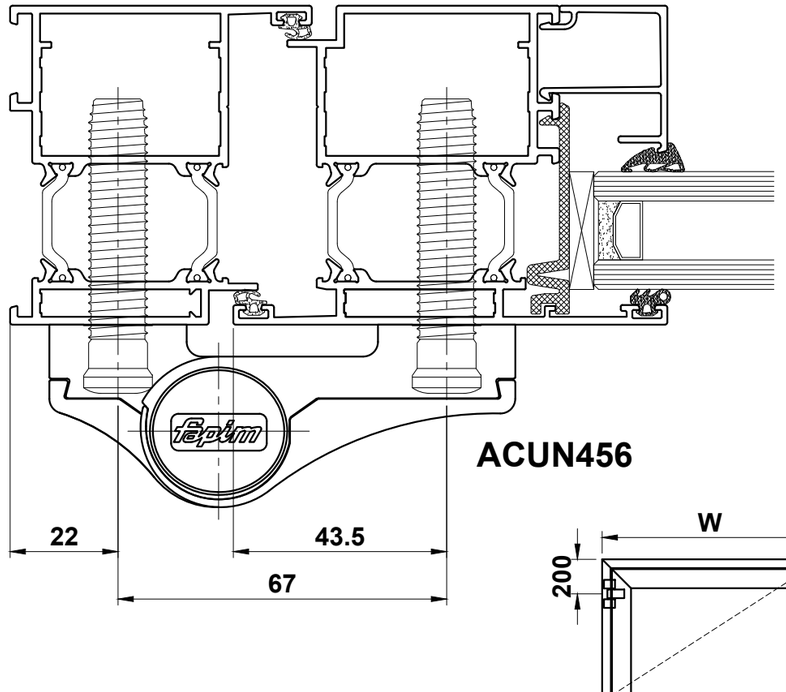
- **ACEF025A**
- **ACFT025B**



Do Not Scale From This Drawing

ACUN456 Hinge Details - Side Hung & Bottom Hung

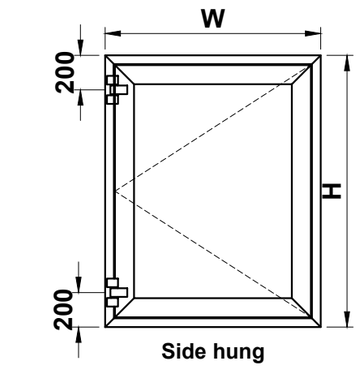


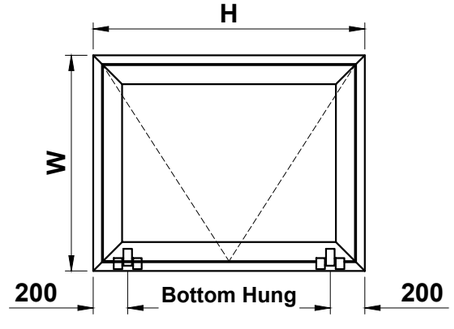


ACUN456 - 3 Leaf Hinge

Max Sash Weights (Based on 2 hinges)
Residential = 160kg
Commercial = 150kg

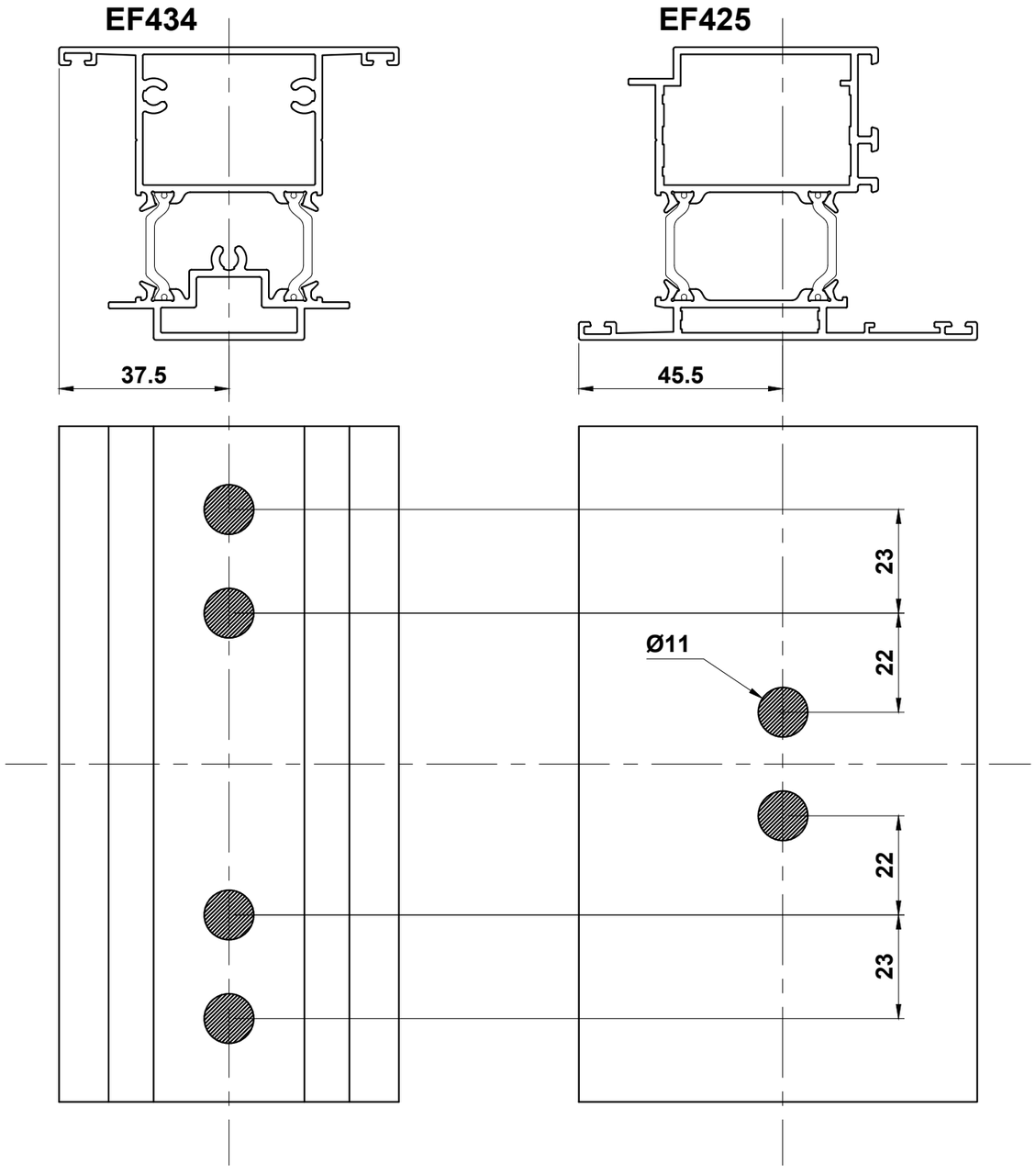
Please note that hinge weight limitations are provided as guides only.
For Tall Side Hung AOV, consider using additional hinge.
Detailed hinge weight loading specifications are available upon request.
The maximum weight of any AOV must also comply with SE Controls actuator requirements.

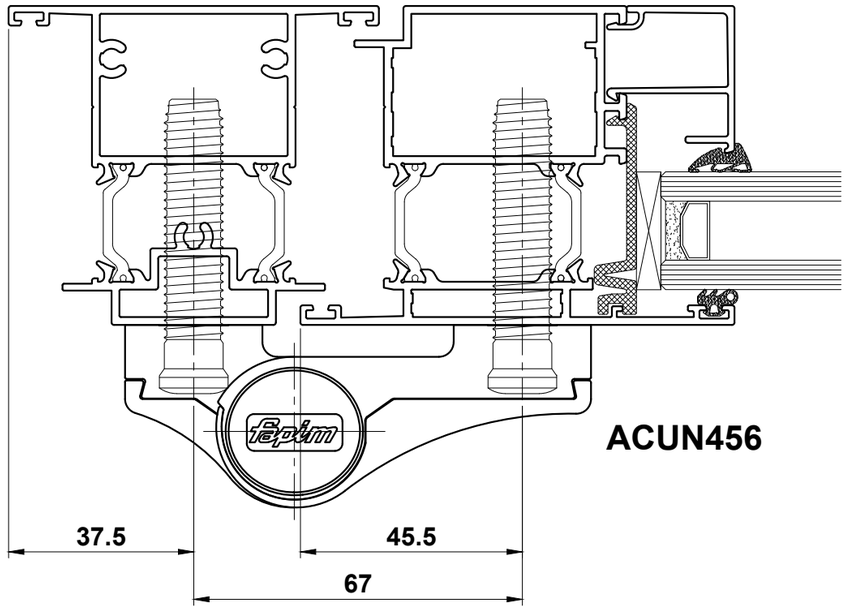


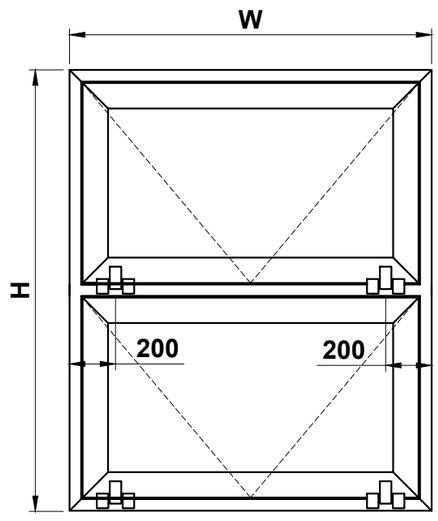


Do Not Scale From This Drawing

ACUN456 Hinge Details - Double Bottom Hung







Double Bottom Hung

ACUN456 - 3 Leaf Hinge

Max Sash Weights (Based on 2 hinges)
Residential = 160kg
Commercial = 150kg

Please note that hinge weight limitations are provided as guides only.
Detailed hinge weight loading specifications are available upon request.
The maximum weight of any AOV must also comply with SE Controls actuator requirements.

Do Not Scale From This Drawing

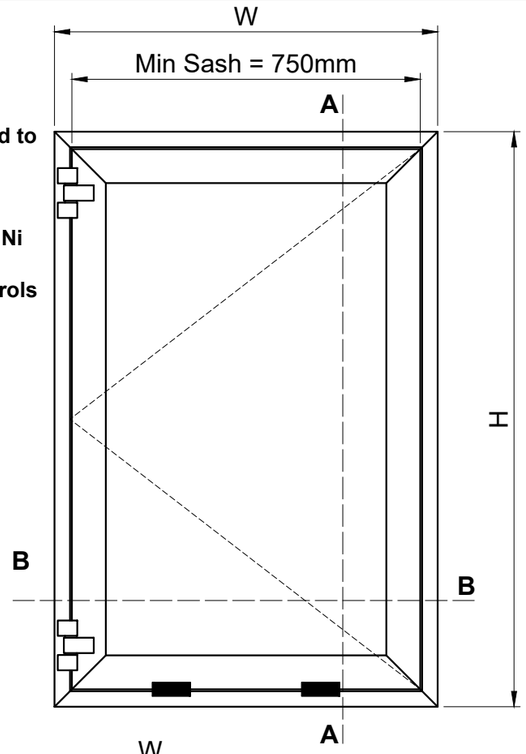
Side Hung AOV

AOV Compliant to EN 12101-2

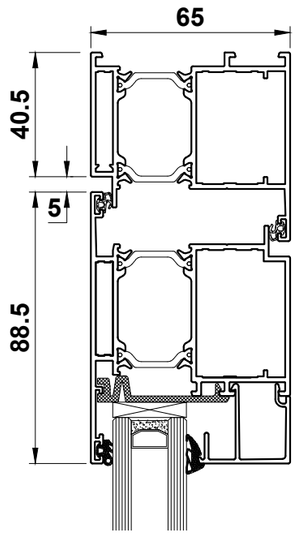
The details on this page show sections and accessories required to fabricate a AOV compliant with European standard EN 12101-2.

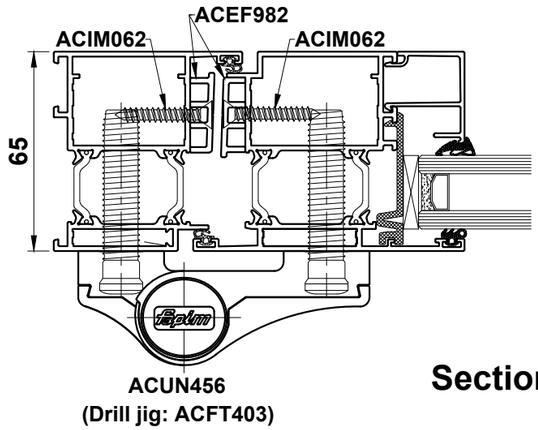
The AOV was tested using SECO Ni 24 40 actuators supplied by SE Controls. Please contact SE Controls to discuss size limits for each project.

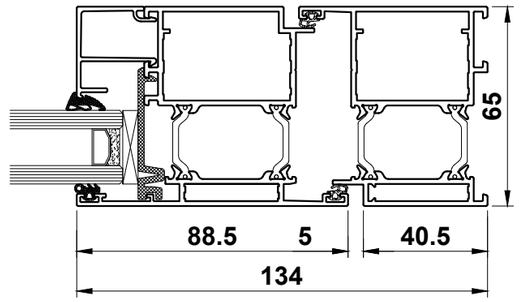
Please contact the Technical Department for further details on achieving compliance.



■ = ACEF982



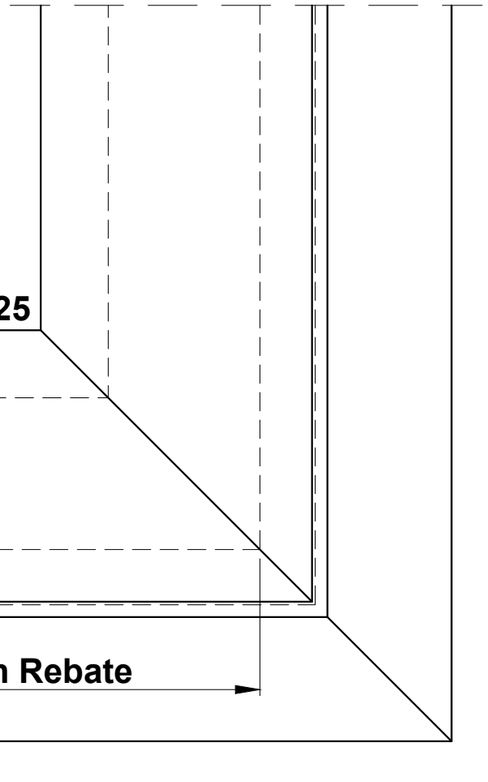


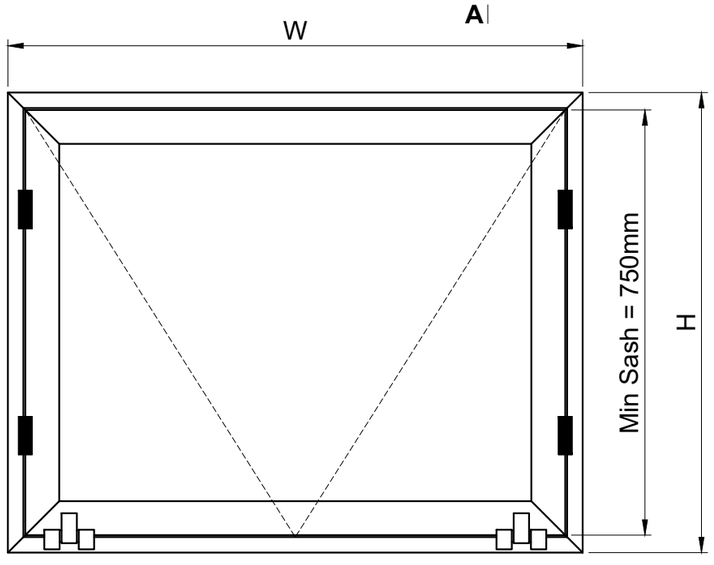


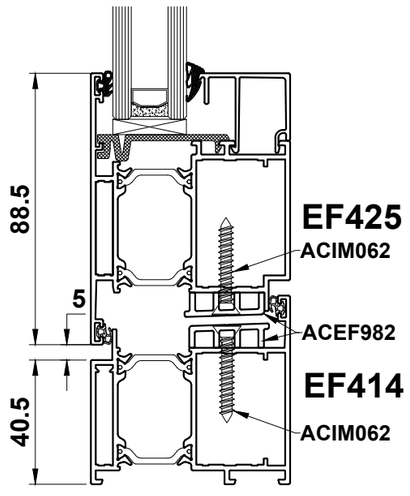
Section B - B



NOTE
ACEF982 sash support must be fitted to the sash & outer frame 250mm from sash rebate as shown.



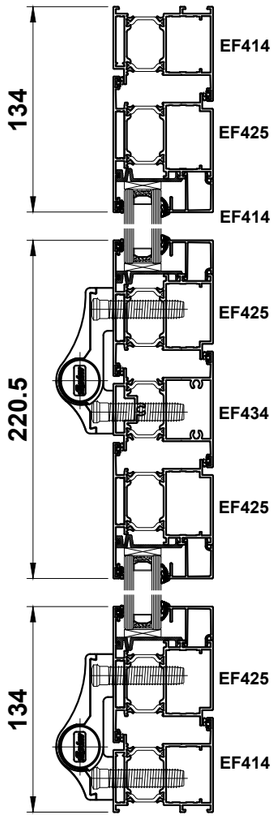




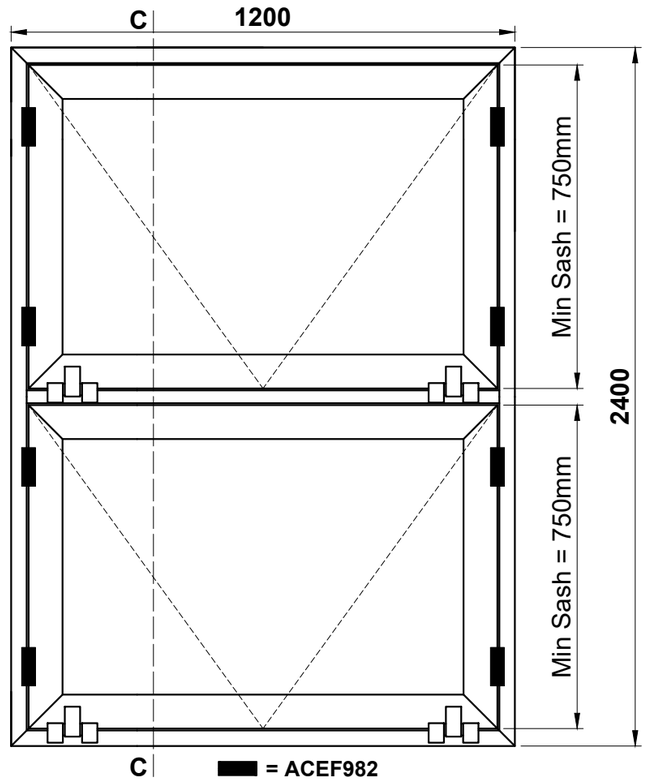
Section A - A

Do Not Scale From This Drawing

Double Bottom Hung AOV

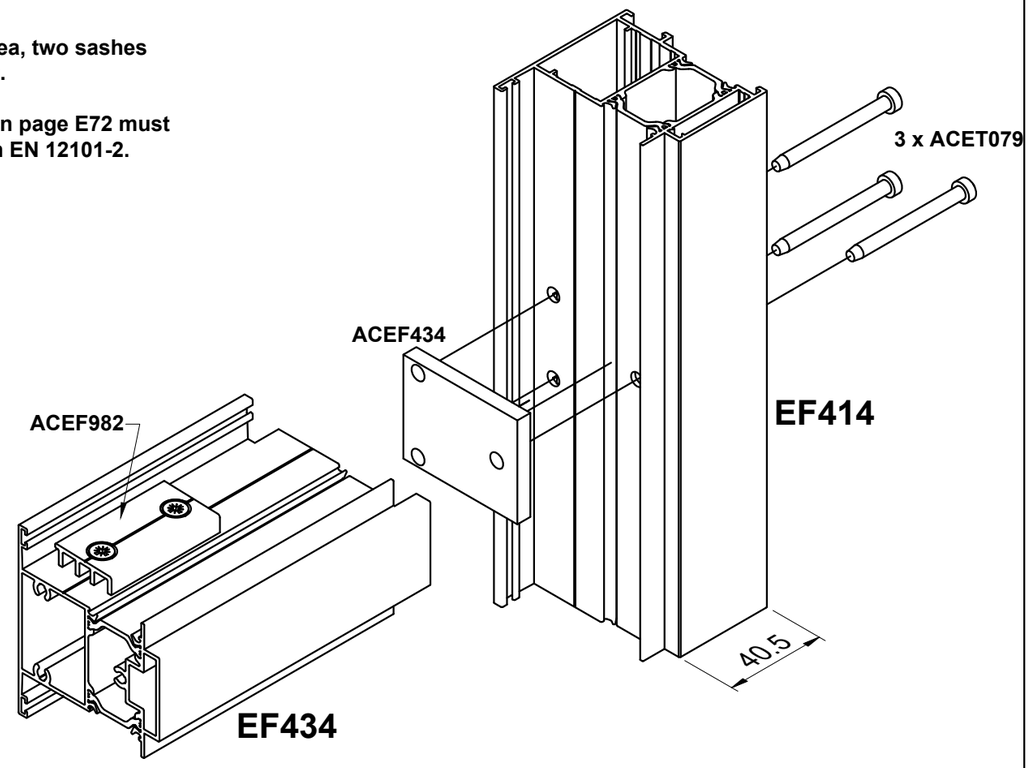


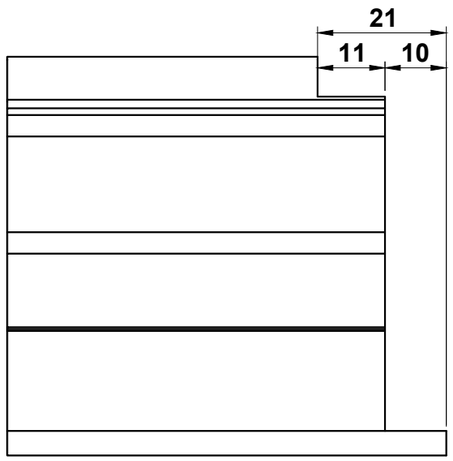
Section C - C

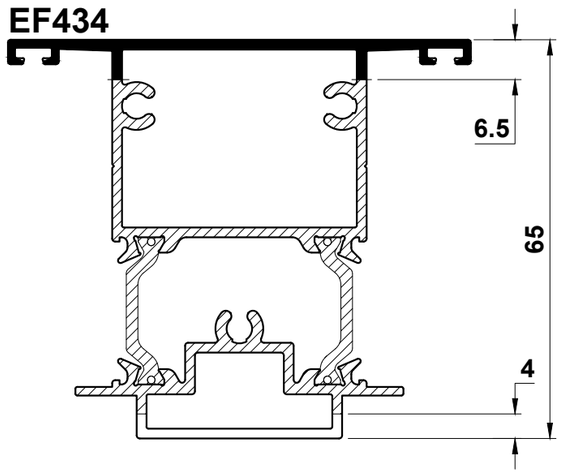


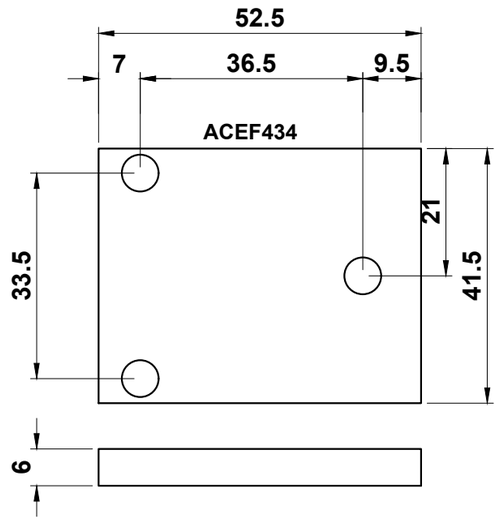
To increase the free area, two sashes may be used as shown.

The hardware shown on page E72 must be used to comply with EN 12101-2.





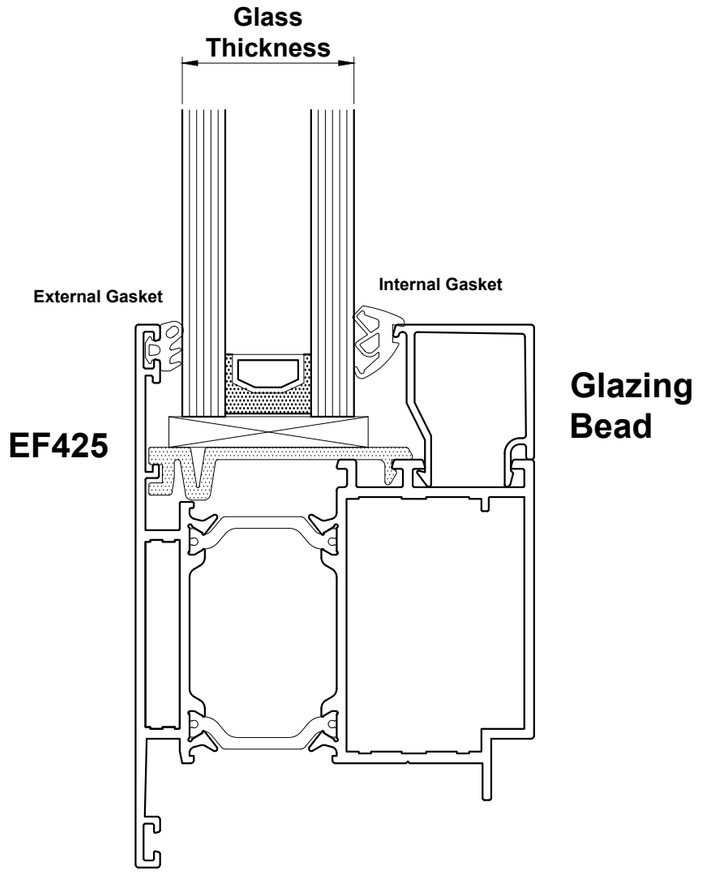




Do Not Scale From This Drawing

Glazing Charts

Glazing Table			
Glass Thickness	**External Gasket**	**Internal Gasket**	**Glazing Bead**
28	ACVG31N	ACVG33N	GL026
29	ACVG31N	ACVG32N	GL026
30	ACVG31N	ACVG34N	GL023
31	ACVG31N	ACVG33N	GL023
32	ACVG31N	ACVG32N	GL023
48	ACVG31N	ACVG340N	GL004
49	ACVG31N	ACVG34N	GL004
50	ACVG31N	ACVG33N	GL004
51	ACVG31N	ACVG32N	GL004



Do Not Scale From This Drawing

Section F

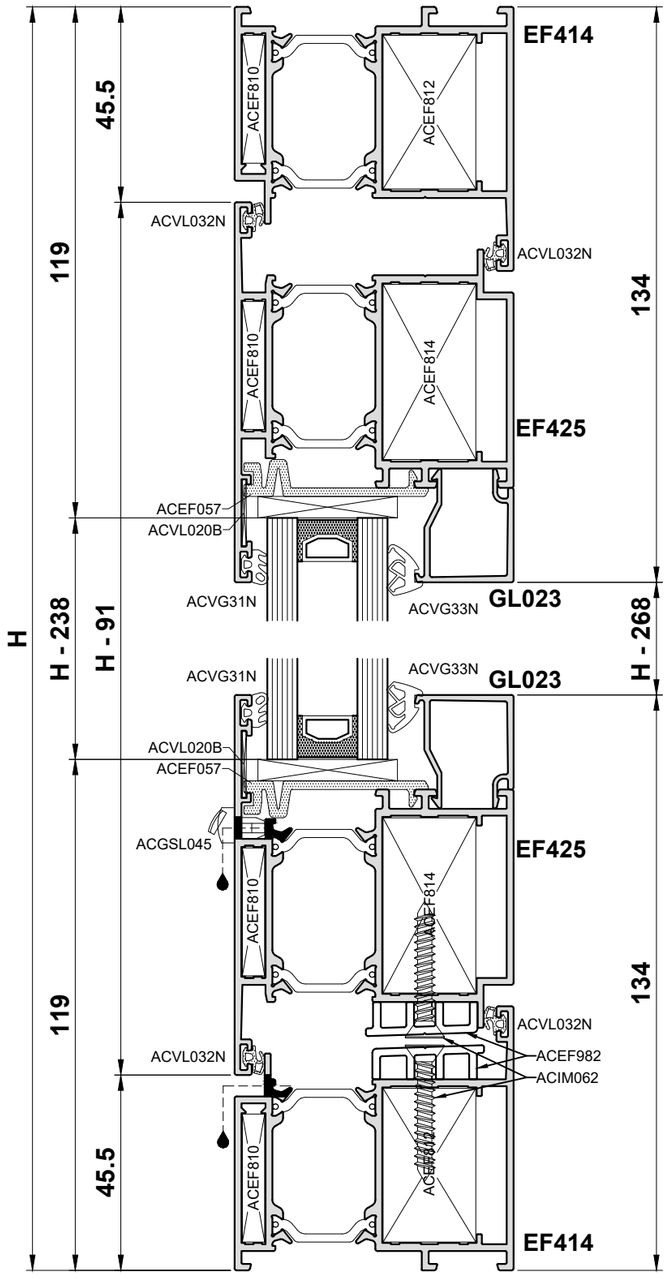
F | EF

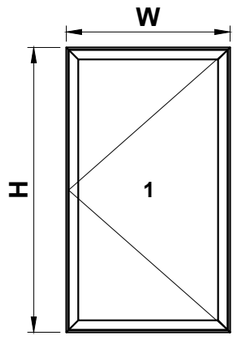
Sawing Tables

Side Hung AOV..... F03
Bottom Hung AOV..... F04
Double Bottom Hung AOV..... F05

Section F

Cutting Information



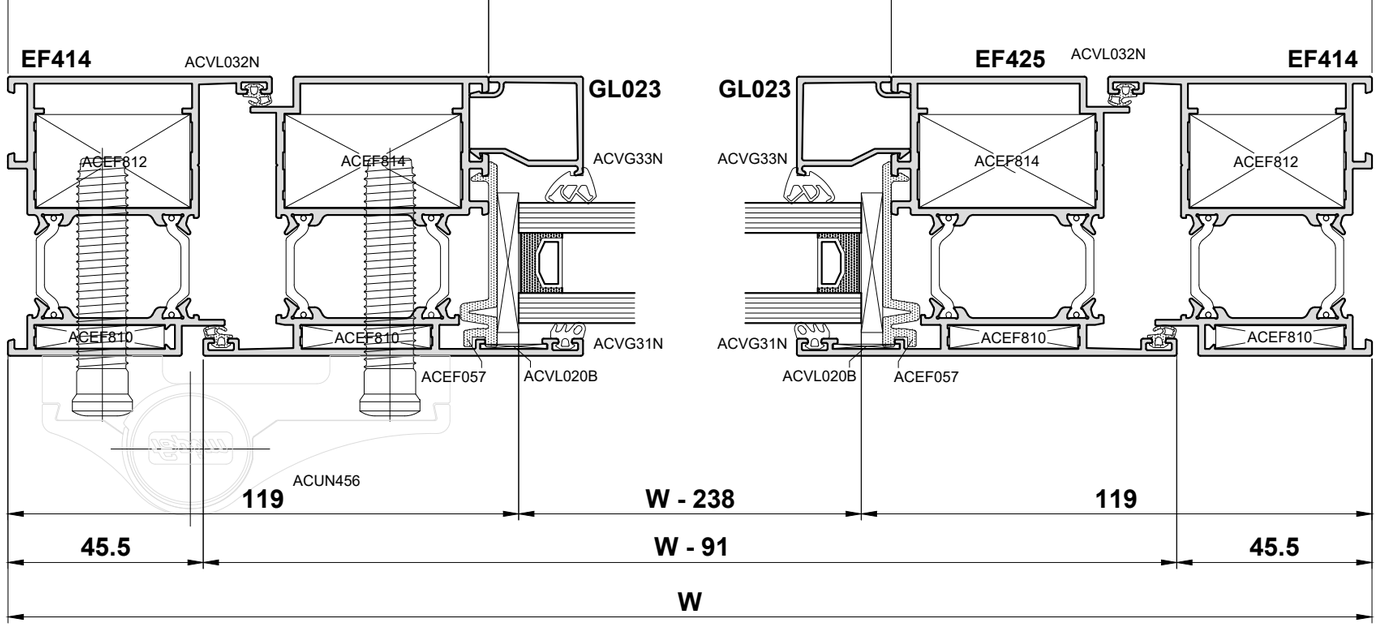


Side-Hung AOV

Profiles				
Profile	Image	QTY	End Prep	Deduction
EF414		2		W
EF414		2		H
EF425		2		W - 91
EF425		2		H - 91
GL***		2		W - 224
GL***		2		H - 268

Glass			
Glass	Width	Height	QTY
1	W - 238	H - 238	1

Accessories		
Part Number	Description	QTY
ACEF810	Crimping Cleat	8
ACEF812	Crimping Cleat	4
ACEF814	Crimping Cleat	4
ACVL020B	Plastic Chevron	4
ACEF057	Glazing Support	8
ACGSL045	Drainage Cap	2
ACVL032N	Flipper Gasket	4W + 4H
ACVG31N	External Gasket	2W + 2H
ACVG***	Internal Gasket	2W + 2H
ACUN456	Hinge	2
ACEF982	AOV Support	4
ACIM062	NO.10 X 1 1/4 S/S S/T CSK Screw	8

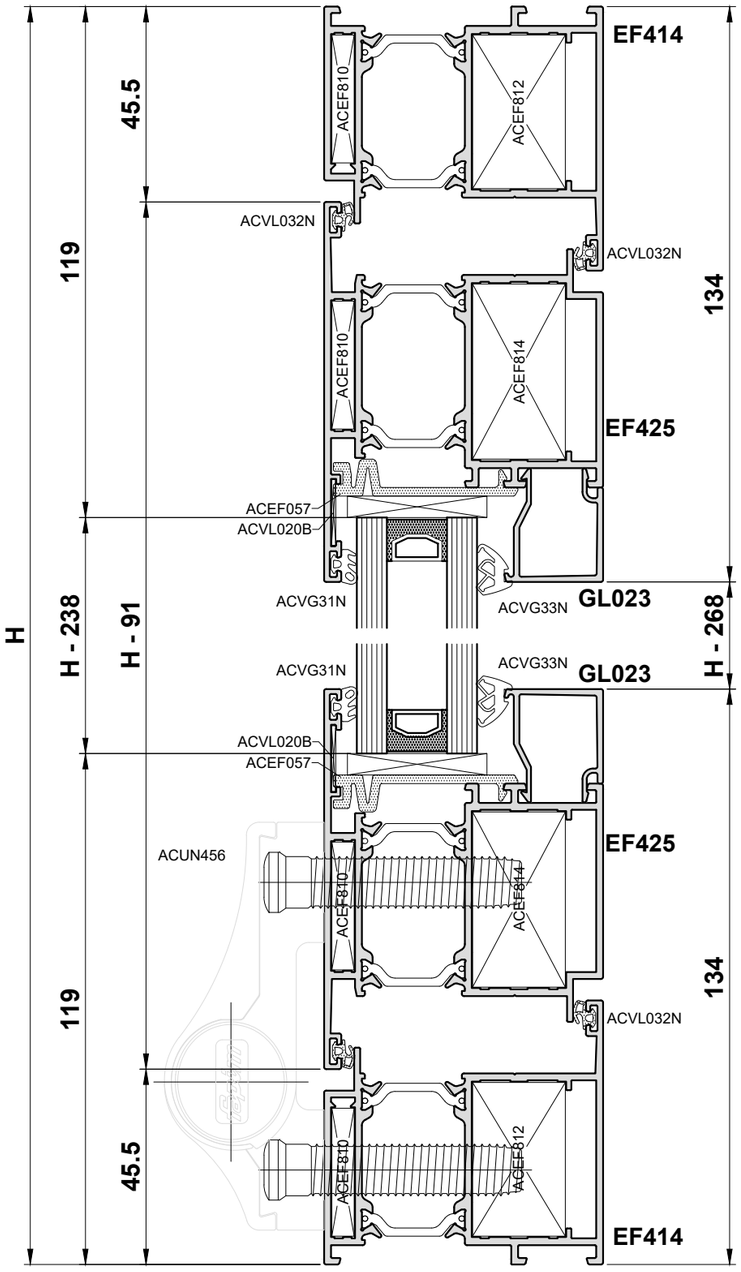


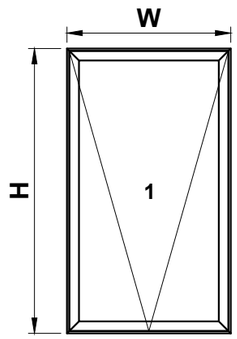
Do Not Scale From This Drawing

Smart AOV

SAWING TABLES : OPEN OUT

Cutting Information



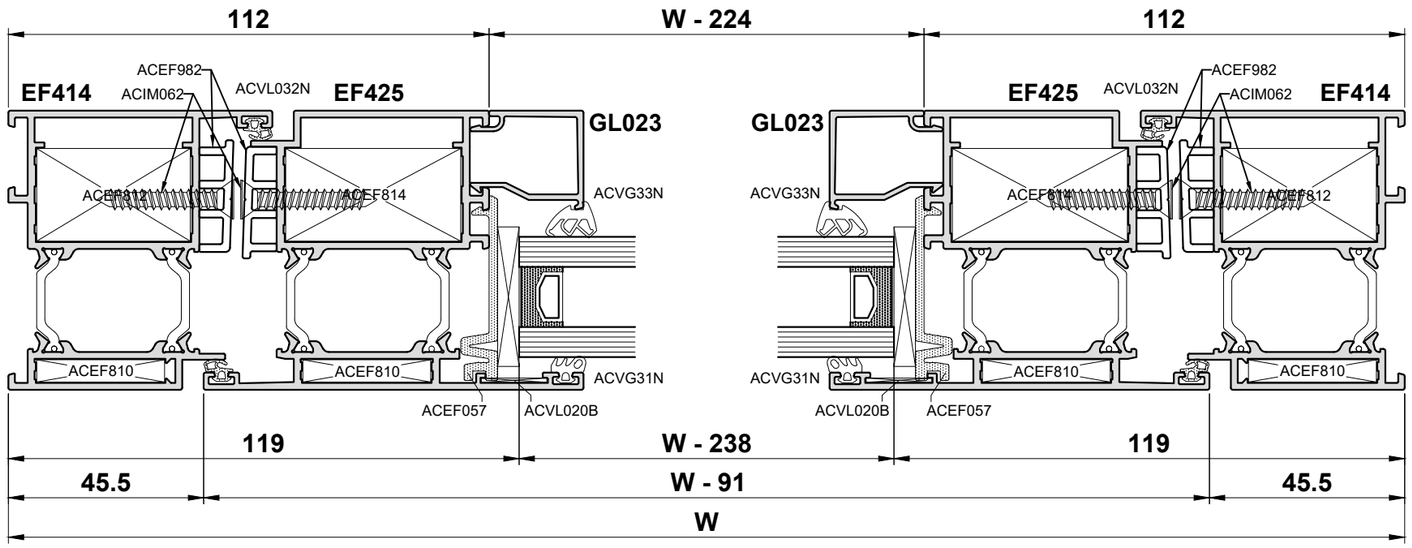


Bottom-Hung AOV

Profiles				
Profile	Image	QTY	End Prep	Deduction
EF414		2		W
EF414		2		H
EF425		2		W - 91
EF425		2		H - 91
GL***		2		W - 224
GL***		2		H - 268

Glass			
Glass	Width	Height	QTY
1	W - 238	H - 238	1

Accessories		
Part Number	Description	QTY
ACEF810	Crimping Cleat	8
ACEF812	Crimping Cleat	4
ACEF814	Crimping Cleat	4
ACVL020B	Plastic Chevron	4
ACEF057	Glazing Support	8
ACGSL045	Drainage Cap	2
ACVL032N	Flipper Gasket	4W + 4H
ACVG31N	External Gasket	2W + 2H
ACVG***	Internal Gasket	2W + 2H
ACUN456	Hinge	2
ACEF982	AOV Support	8
ACIM062	NO.10 X 1 1/4 S/S S/T CSK Screw	16

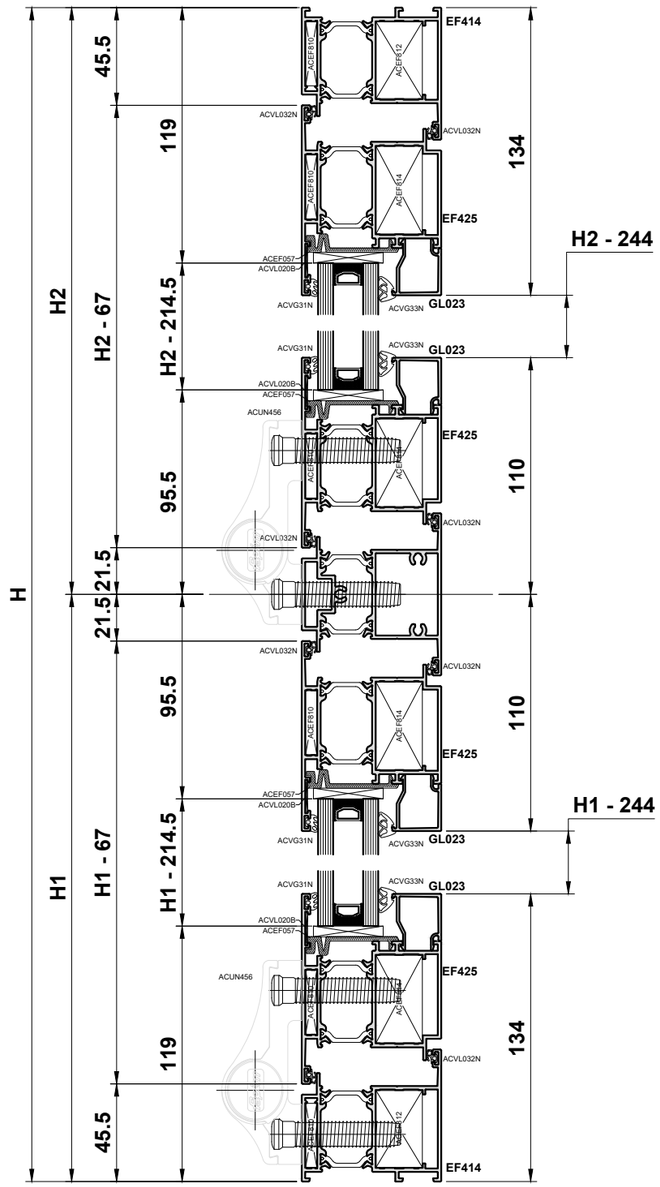


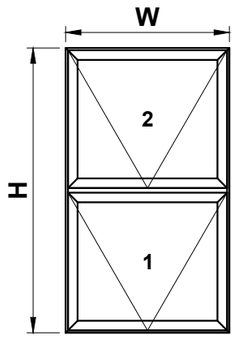
Do Not Scale From This Drawing

ISSUED: AUGUST 2026

Smart AOV

Cutting Information



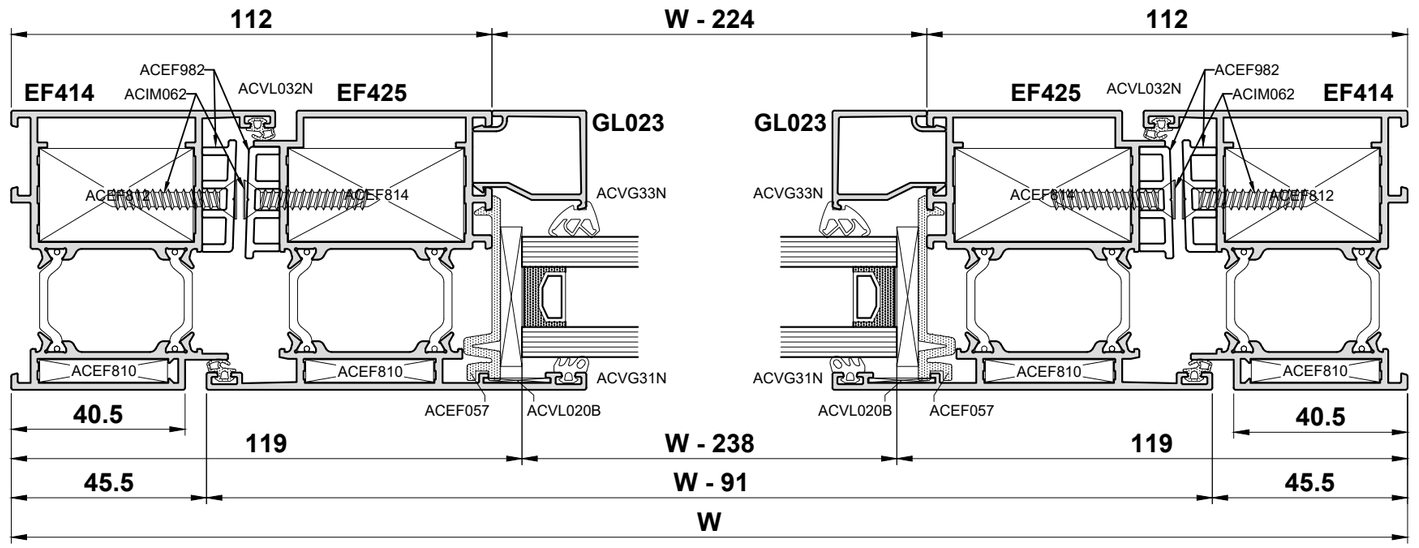


Double Bottom-Hung AOV

Profiles				
Profile	Image	QTY	End Prep	Deduction
EF414		2		W
EF414		2		H
EF434		1		W - 81
EF425		4		W - 91
EF425		2		H1 - 67
EF425		2		H2 - 67
GL***		4		W - 224
GL***		2		H1 - 244
GL***		2		H2 - 244

Glass			
Glass	Width	Height	QTY
1	W - 238	H1 - 214.5	1
2	W - 238	H2 - 214.5	1

Accessories		
Part Number	Description	QTY
ACEF810	Crimping Cleat	12
ACEF812	Crimping Cleat	4
ACEF814	Crimping Cleat	8
ACVL020B	Plastic Chevron	4
ACEF057	Glazing Support	16
ACGSL045	Drainage Cap	4
ACVL032N	Flipper Gasket	8W + 4H
ACVG31N	External Gasket	4W + 2H
ACVG***	Internal Gasket	4W + 2H
ACUN456	Hinge	4
ACEF982	AOV Support	16
ACIM062	NO.10 X 1 1/4 S/S S/T CSK Screw	32
ACEF434	Transom End Pad	2
ACET079	NO. 10 X 2 1/2 S/S S/T Pan Head Screw	6



Do Not Scale From This Drawing

Cutting Information

Do Not Scale From This Drawing