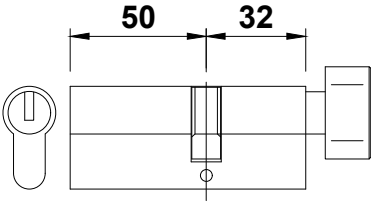
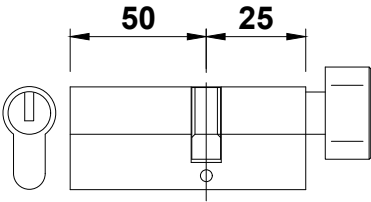


Bulletin

IMPORTANT PRODUCT NOTIFICATION

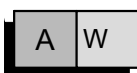
The high security cylinder ACCY5025NKTTS3 (50/25) listed in the technical manual will be available to order from the end of January 2024.

An alternative high security cylinder ACCY5032NKTTS3 (50/32) is available to order now.

Image	Part Code	Pack	Unit
	ACCY5032NKTTS3 50/32 High Security Cylinder 3 keys supplied ACCY5032NKTTS3-SL for keyed alike ACCY5032NKTTS3-SLPR for keyed alike pair Nickle Finish	1	Each
	ACCY5025NKTTS3 50/25 High Security Cylinder 3 keys supplied ACCY5025NKTTS3-SL for keyed alike ACCY5025NKTTS3-SLPR for keyed alike pair Nickle Finish	1	Each

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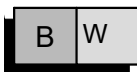


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Specification

GENERAL DESCRIPTION

The "Alitherm Heritage 60" door system described in this manual is designed to offer a modern aluminium thermally broken replacement to steel doors. Taking inspiration from traditional steel doors, Alitherm Heritage 60 features signature slim sightlines and attractive aesthetic contours coupled with polyamide thermal break technology giving Alitherm Heritage 60 enhanced thermal performance and narrow sightlines.

The Alitherm Heritage 60 is designed to be built as a series of horizontal or vertical modules which can be stacked using horizontal couplers to form a multi-part door featuring a specially design drip bar between modules.

Applications:

Doors:

- Single open out & open in doors
- Double open out & open in doors

Corner assembly of Alitherm Heritage 60 is crimping only.

RECOMMENDED DESIGN DOOR LIMITATIONS

Doors

Door Sashes:

Maximum Width: 900mm

Minimum Width: 600mm

Maximum Height: 2100mm

Minimum Height: 1000mm (leaving 3 locking points)

Maximum Weight: 60kg

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

Specification

PROFILE SPECIFICATION

The door 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:-

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

- a) Anodised to BS 3987 : 1987, grade AA25 to a natural colour.
- b) Polyester powder organic coating to BS 6496. Dual colour is available.

GENERAL MANUFACTURING

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

The corners are joined using the Alitherm Heritage 60 crimping tools 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

DOOR DRAINAGE

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

OUTER FRAME MANUFACTURING INFORMATION

The outer 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 aluminium 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.

SASH

Corners are formed by coating the cut faces to be joined with a suitable gap sealer. In the mitred corner insert the cleat glue and the required corner cleats and chevrons. The 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. Care should be taken to ensure any excess sealer is removed from the surfaces.

The cutting sizes produce sash frames with a cavity of 13mm.

When fixing, the friction stays into both the outer and vent frame, care should be taken to ensure that holes are located on 'V' grooves in the aluminium extrusions.

Specification

INTERNALLY BEADED ADAPTOR FRAME

The internally beaded adaptor frame members are cut with 45° mitred ends to the overall size required, measured to the longest point of metal. Care should be taken when measuring and cutting the frame members as only nominal clearance is required when the assembled frame is fixed in the outer frame.

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 a corner cleat and the required corner chevrons. The small gap sealer ensures a permanent joint and guards against the ingress of moisture and joint movements. Care should be taken to ensure any excess sealer is removed from painted surfaces.

GLAZING

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

EXTERNALLY BEADED GLAZING

Glazing beads are fitted to openings by cutting the horizontal beads square to head and cill of each sash. Vertical beads are cut at 45° or 90° 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.

INTERNALLY BEADED GLAZING

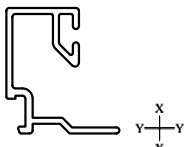
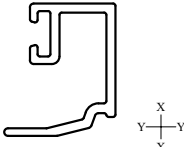
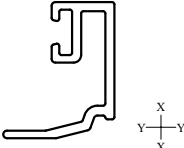
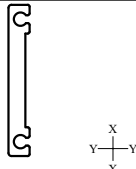
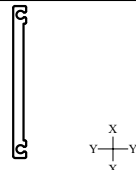
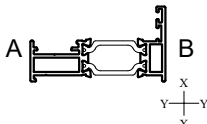
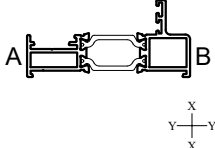
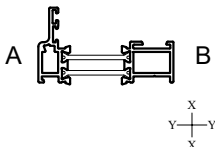
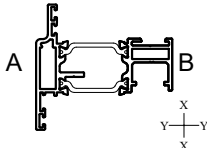
Glazing beads are fitted to openings by cutting the horizontal beads square to head and cill of each sash and reverse adaptor area. Vertical beads are cut square at both ends. Insert bottom beads and two setting blocks to ensure glass will be centralized in vertical dimension of opening (glazing blocks 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.

Alitherm Heritage 60 Door U Values

Please refer to the Smart Systems' Document L White Paper or contact the Technical Department.

Specification

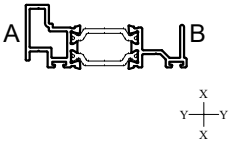
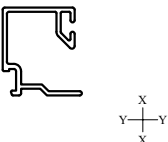
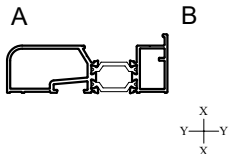
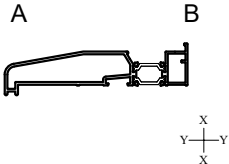
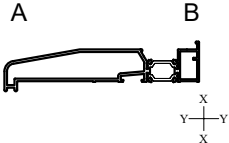
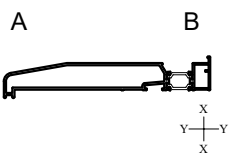
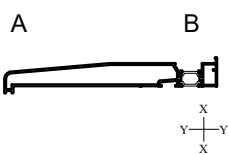
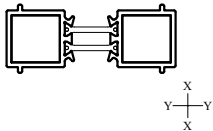
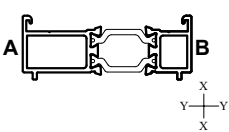
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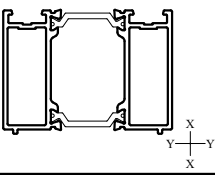
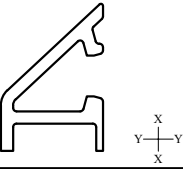
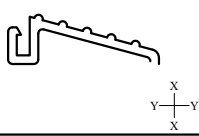
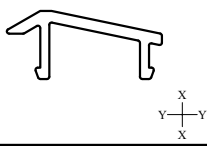
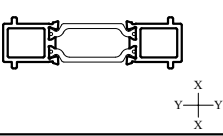
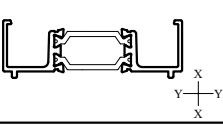
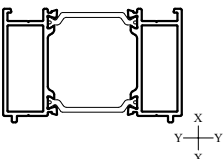
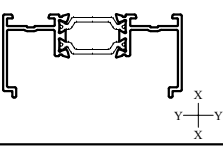
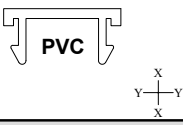
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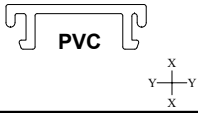
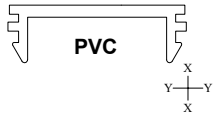
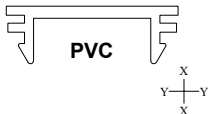
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PROFILES : TECHNICAL INFORMATION

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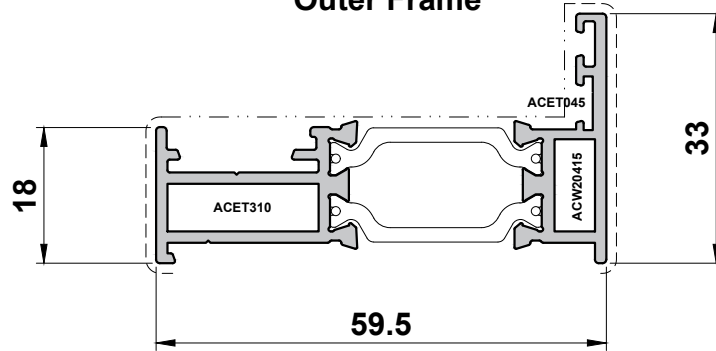
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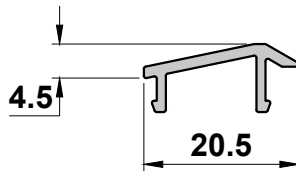
Primary Visible Side

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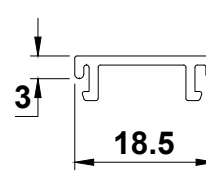
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Outer Frame



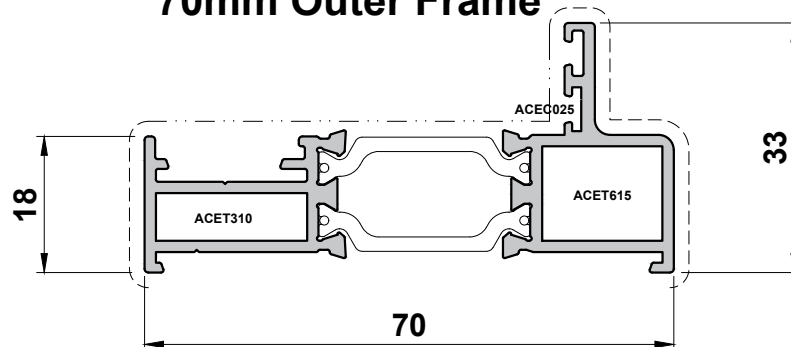
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PCX41
Outer Frame Infill



W20417
70mm Outer Frame



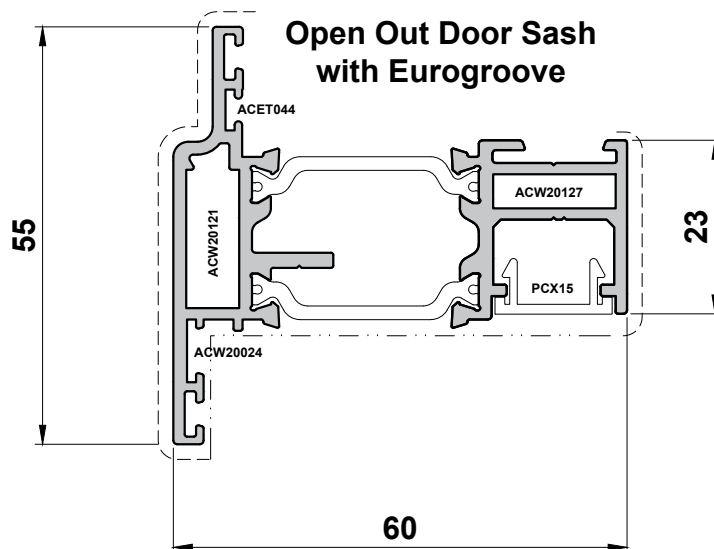
Scale 1:1

Primary Visible Side

Secondary Visible Side

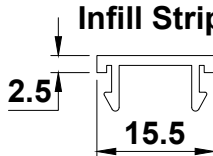
W20424

Open Out Door Sash
with Eurogroove



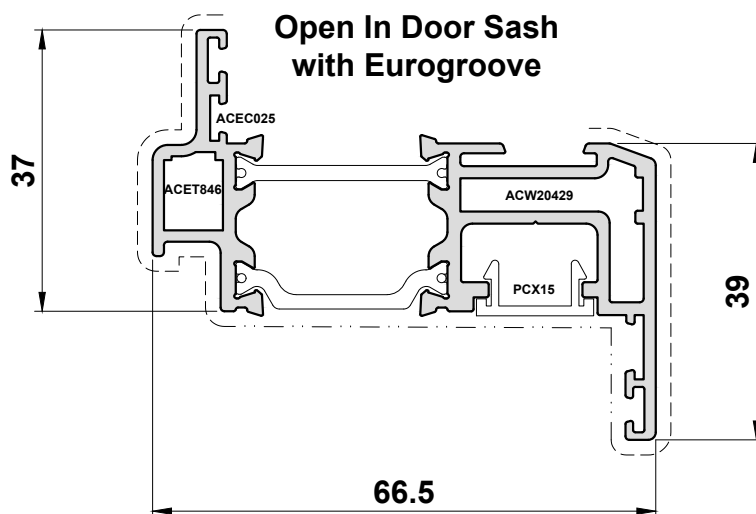
PCX15

Infill Strip



W20429

Open In Door Sash
with Eurogroove

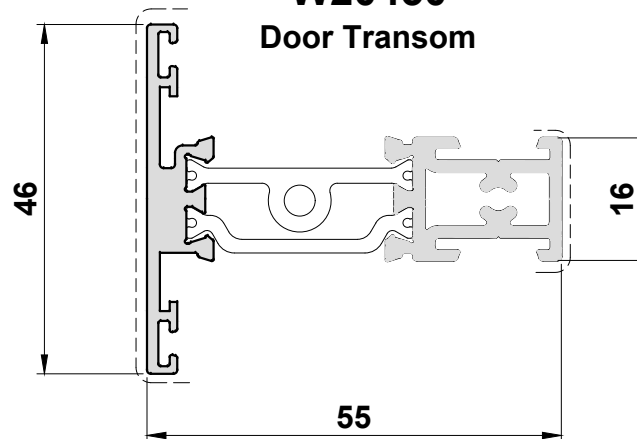


Scale 1:1

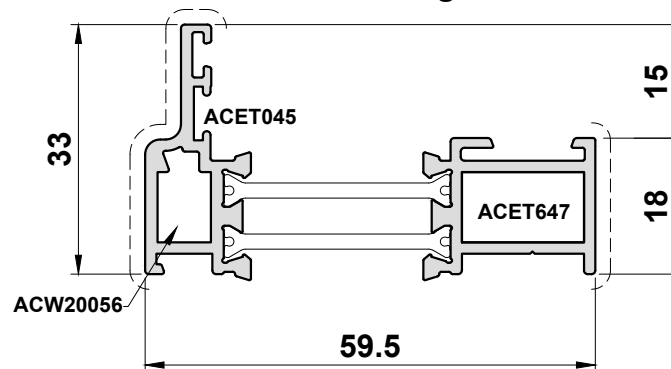
Primary Visible Side

Secondary Visible Side

W20430
Door Transom



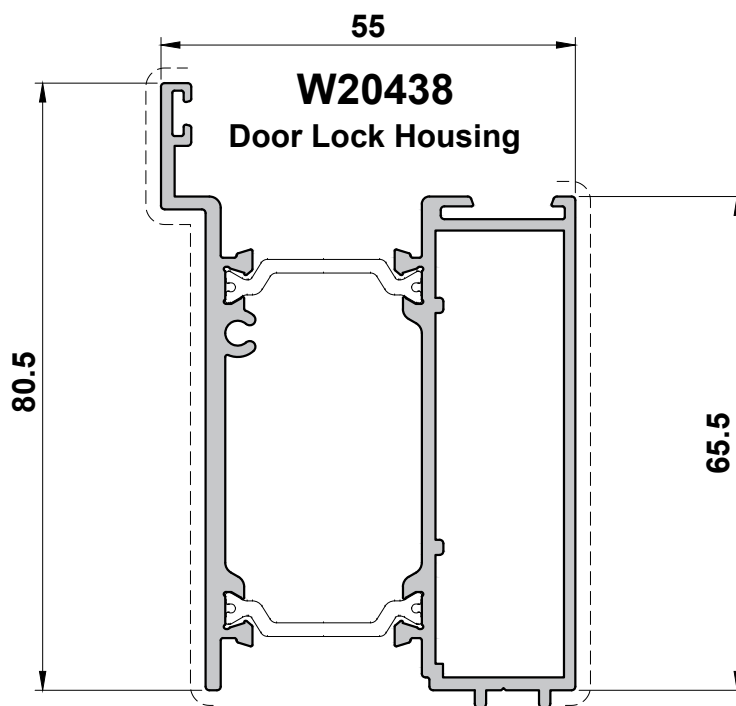
W20418
Internally Glazed
Fixed Light



Scale 1:1

Primary Visible Side

Secondary Visible Side

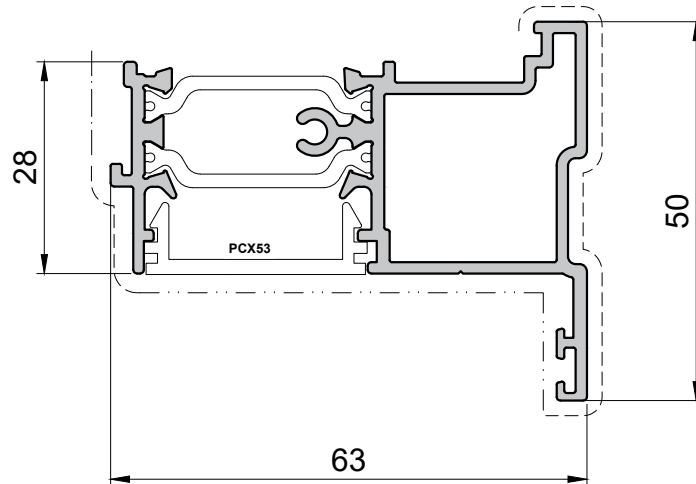


Scale 1:1

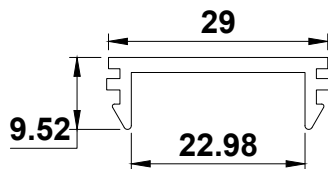
Primary Visible Side

Secondary Visible Side

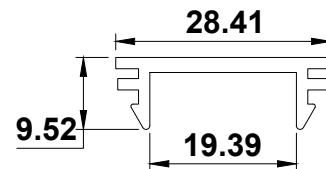
W20446
Open Out Meeting Stile



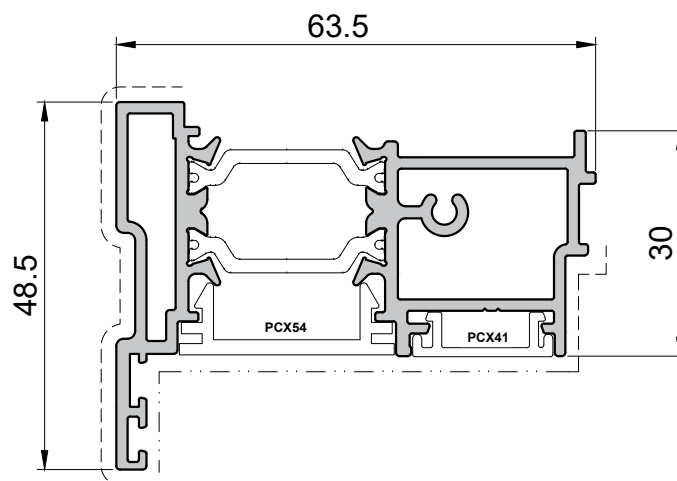
PCX53
Infill Strip for W20446



PCX54
Infill Strip for W20449



W20449
Open In Meeting Stile



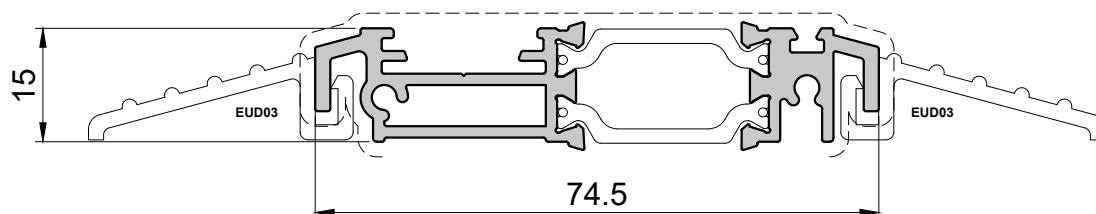
Scale 1:1

Primary Visible Side

Secondary Visible Side

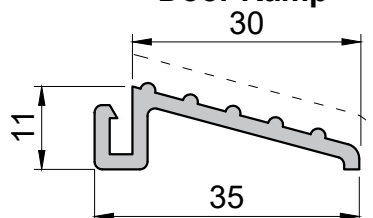
W20470

Low Threshold



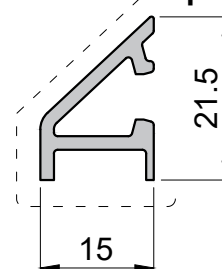
EUD03

Door Ramp



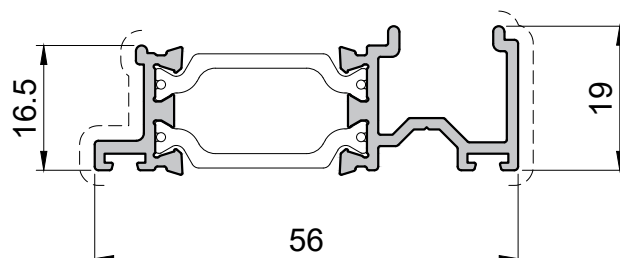
VL72

Weather Drip



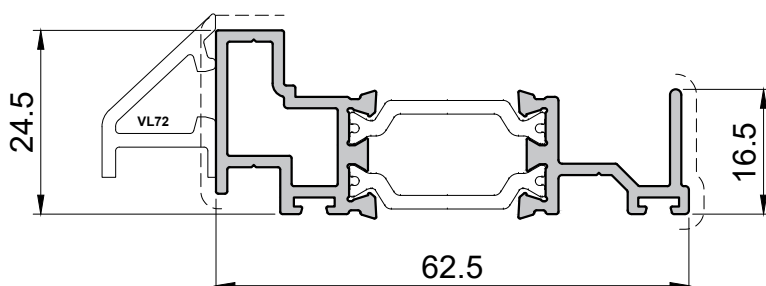
W20472

Open Out Low Threshold Adaptor



W20474

Open in Low Threshold Adaptor

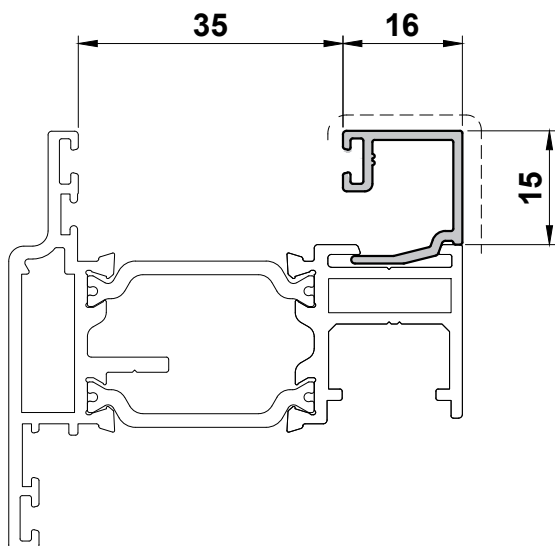


Scale 1:1

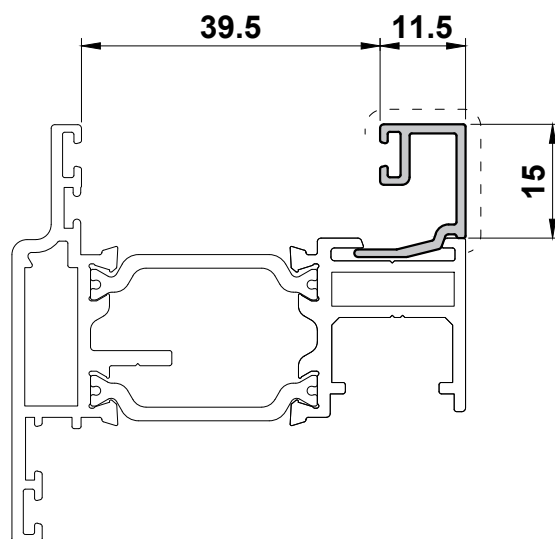
Primary Visible Side

Secondary Visible Side

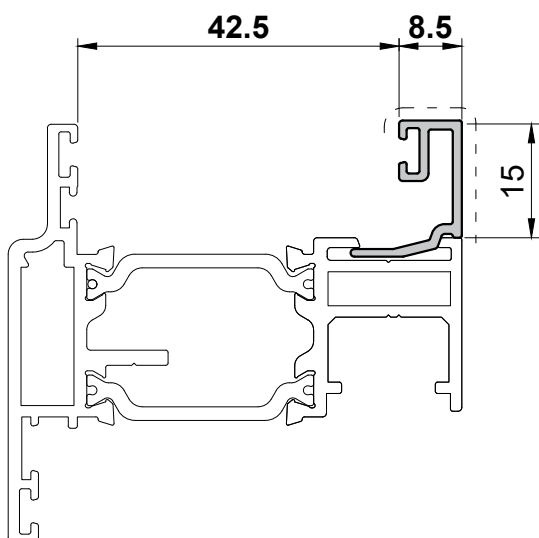
W20469
Sash Bead
28mm Glazing



W20168N
Sash Bead
32mm Glazing



W20171N
Sash Bead
36mm Glazing



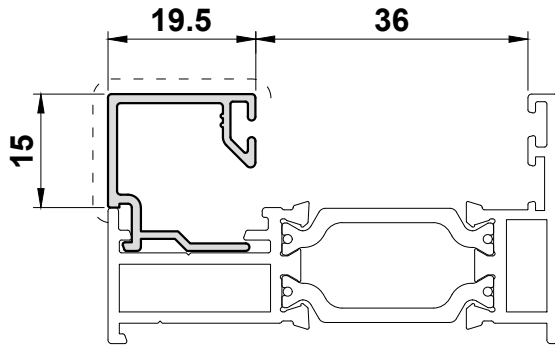
Scale 1:1

Primary Visible Side

Secondary Visible Side

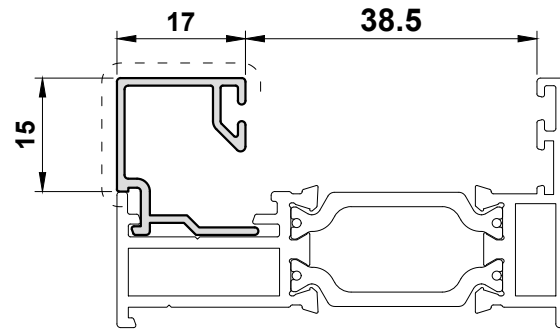
W20471

Outer Frame Bead
28mm Glazing



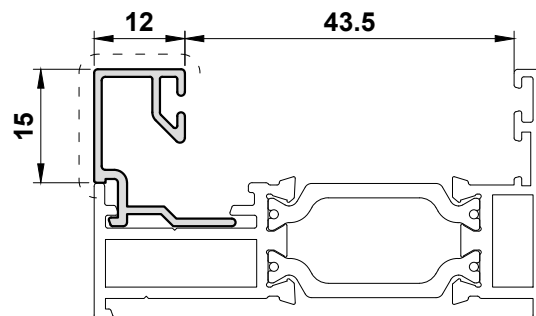
ETC370

Outer Frame Bead
32mm Glazing



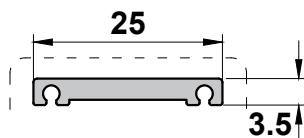
W20161

Outer Frame Bead
36mm Glazing



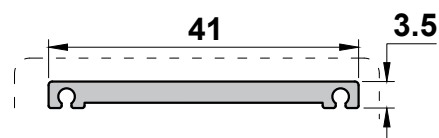
W20165

25mm Astragal Bar



W20166

41mm Astragal Bar



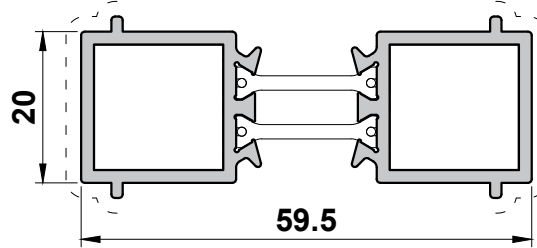
Scale 1:1

Primary Visible Side

Secondary Visible Side

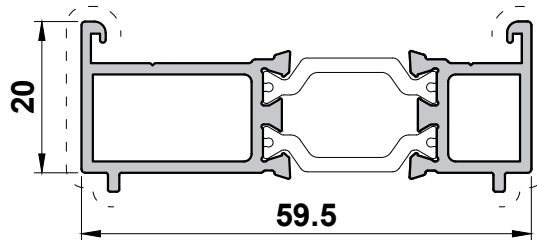
ETC553

20mm Frame Coupler



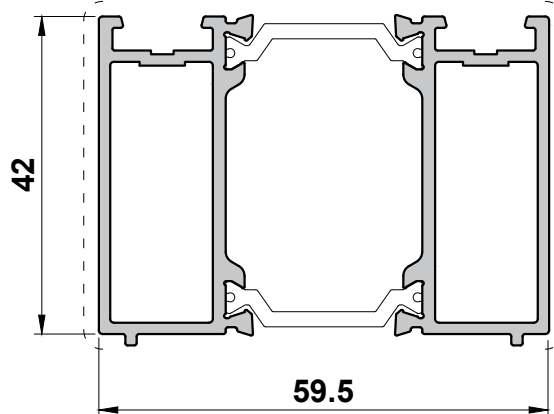
ETC557

20mm Frame Extension



ETC652

42mm Frame Extension



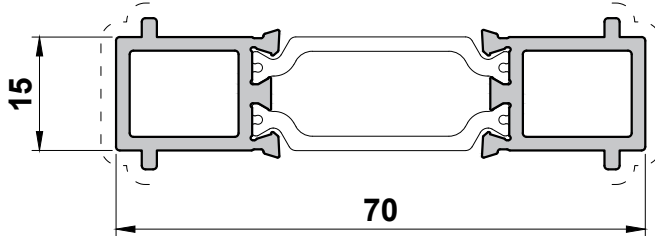
Scale 1:1

Primary Visible Side

Secondary Visible Side

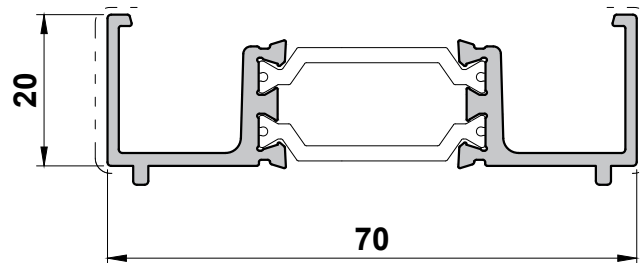
UN3015

15mm Coupler for 70mm Frame



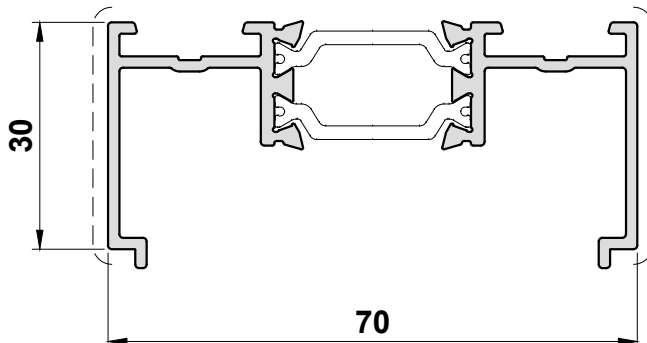
UN3020

20mm Extension for 70mm Frame



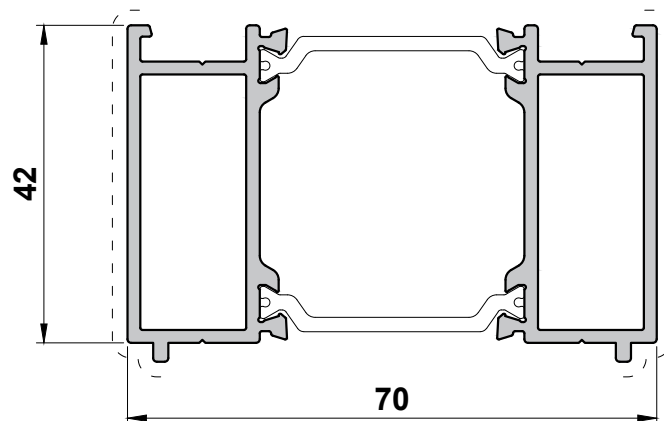
UN3370

30mm Extension for 70mm Frame



UN3042

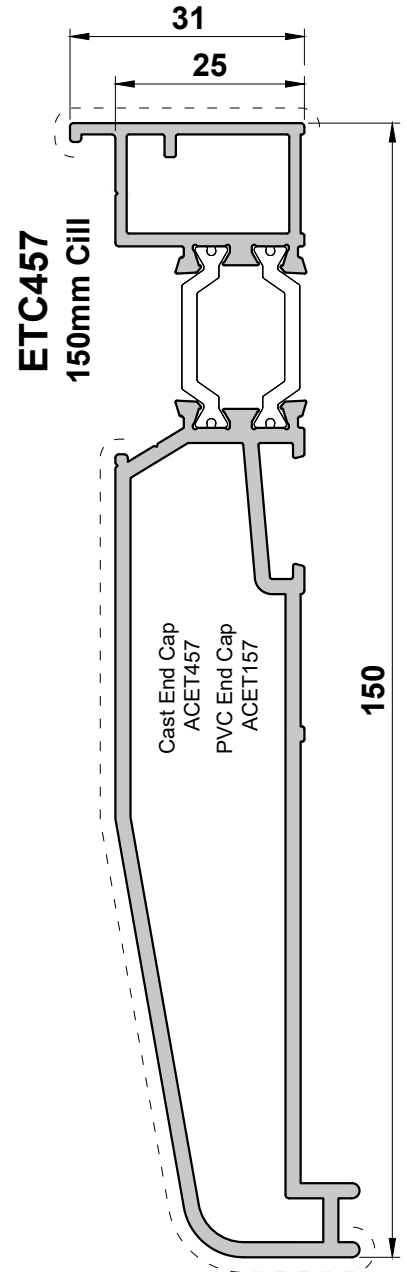
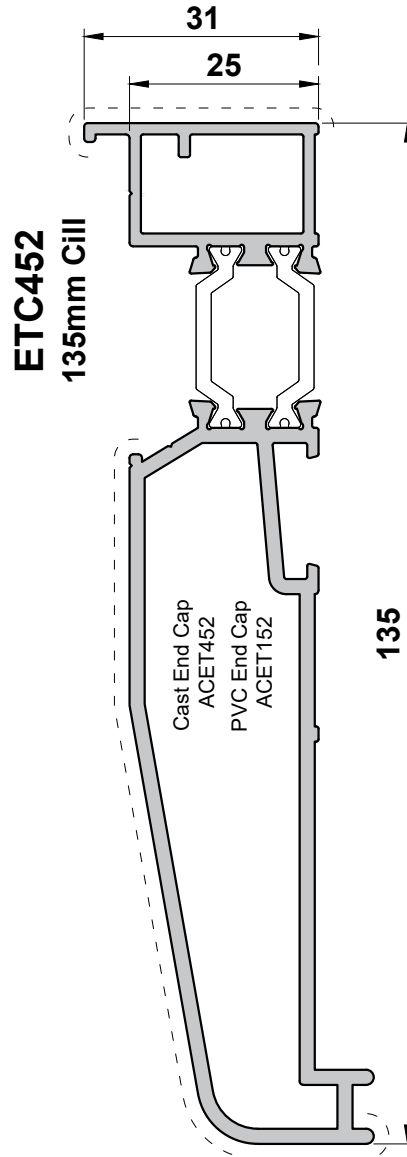
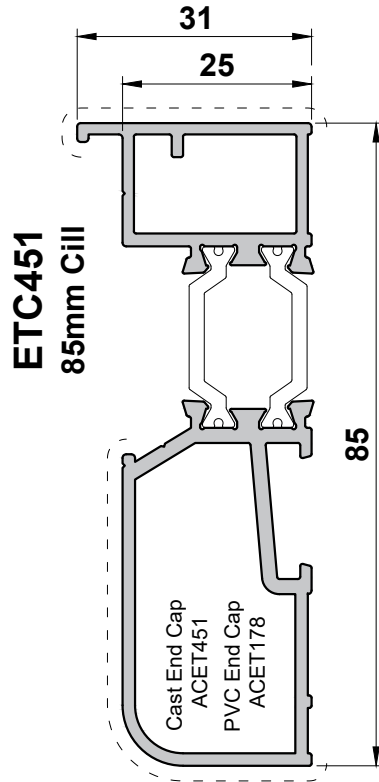
42mm Extension for 70mm Frame



Scale 1:1

Primary Visible Side

Secondary Visible Side

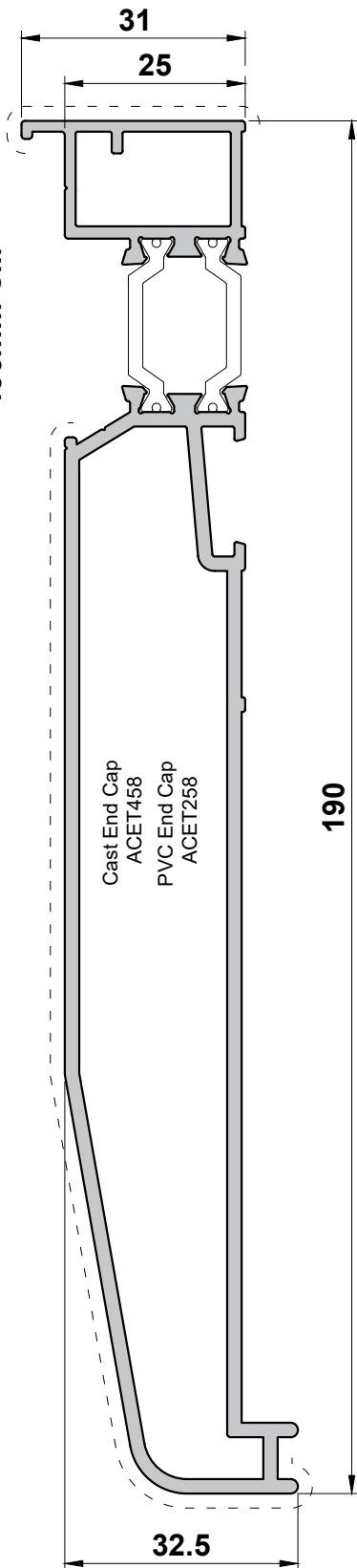


Scale 1:1

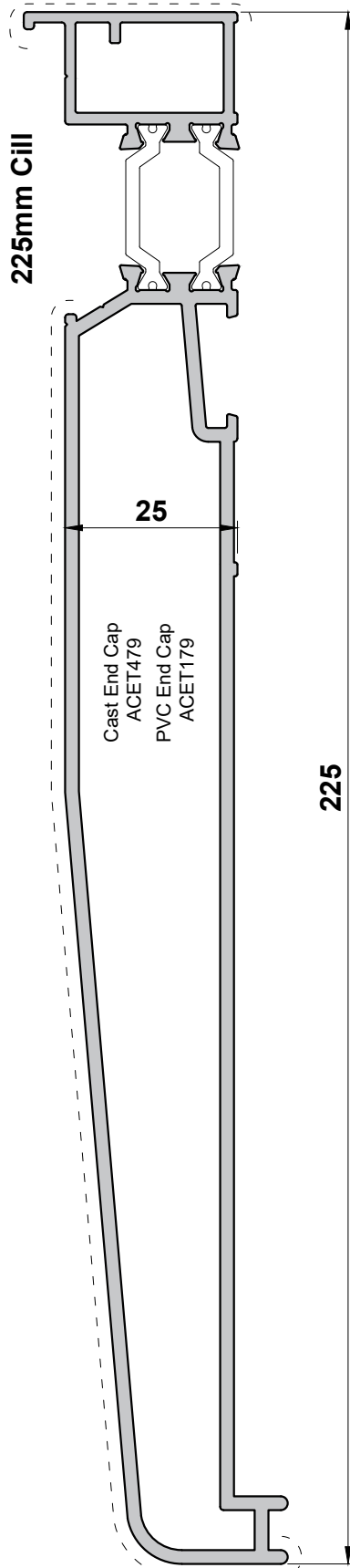
Primary Visible Side

Secondary Visible Side

ETC458
190mm Cill



ETC479N
225mm Cill

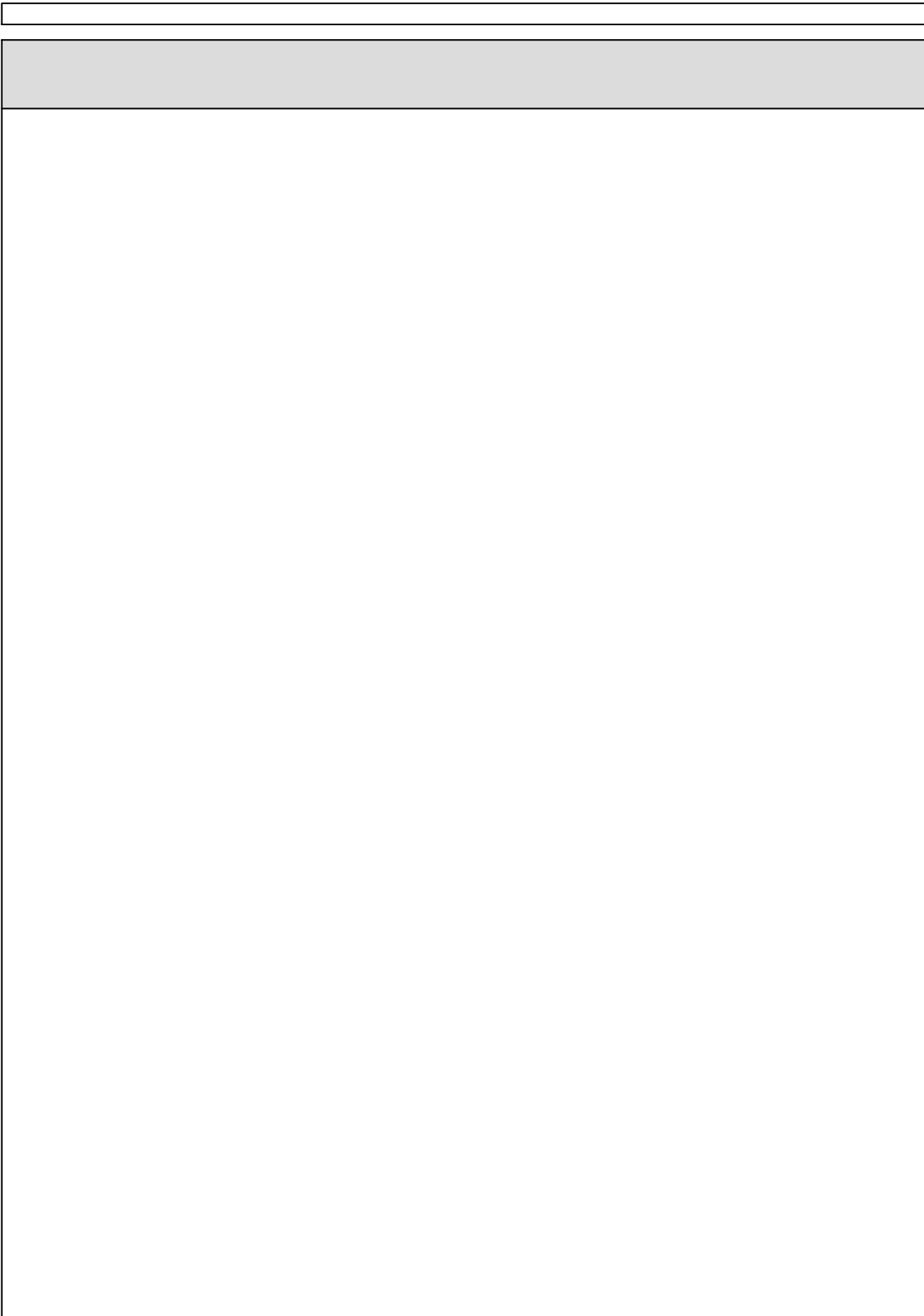


Scale 1:1

Section B

Accessories

Photos & Drawings

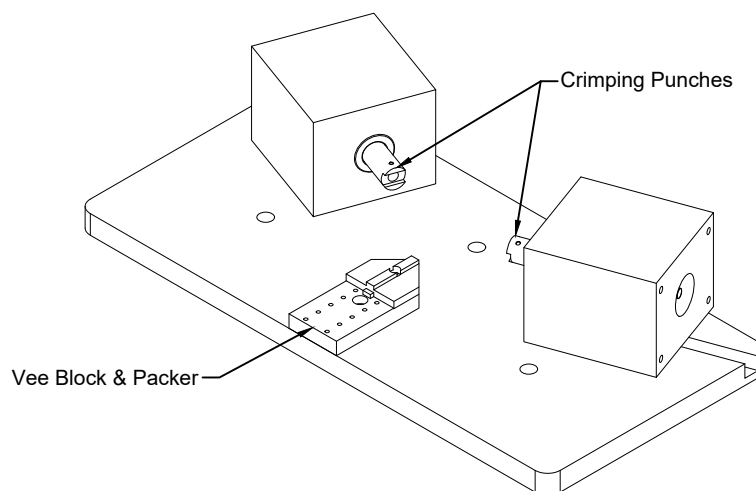


Corner Joint - Crimping

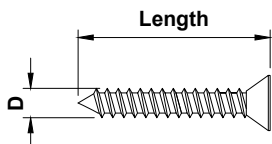
	Profile	Crimping Punches	Vee Block	Packer
Sash Outerframe	W20415	ACW940	ACW944	ACW948
	W20417	ACW943	ACW944	ACW948
	W20424	ACW942	ACW946	ACW949
	W20429	ACW941	ACW947	ACW948

PNEUMATIC CRIMPER
ACCR100

MANUAL CRIMPER
WUT024HSZA



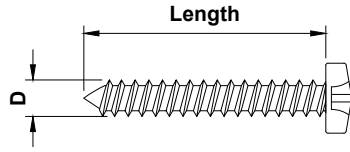
Countersunk Screws



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

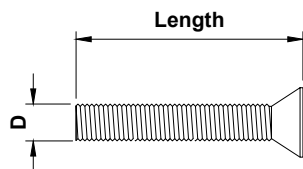
Pan Head Screws



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

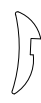
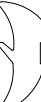
Commonly known as an E Gasket.
Retaining gaskets create a seal between the Glass and the Aluminium Profile.

High Line	2mm		ACVG231
			200m
			BL
	3mm		ACVG31
			200m
			BL
	4mm		ACVG131
			100m
			BL
Low Line	2mm		ACET843
			200m
			BL
	3mm		ACET842
			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
			100m
			BL
Low Line	6mm		ACVG340N
			100m
			BL
	4mm - 3mm		ACW20038
			50m
			BL
	5mm - 4mm		ACET848
			200m
			BL

ACCESSORIES : PHOTOS & DRAWINGS

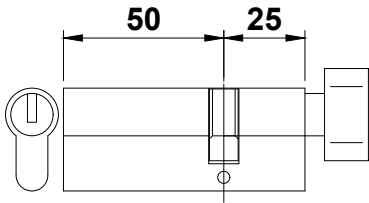
Image	Part Code	Pack	Unit	Application	Colour	
	ACCY5025NKTTS3 50/25 High Security Cylinder 3 keys supplied ACCY5025NKTTS3-SL for keyed alike ACCY5025NKTTS3-SLPR for keyed alike pair Nickle Finish	1	Each	ACW20465 ACW20466	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACDV737 Bottom Shoot Bolt	1	Each	ACW20465 ACW20466	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACDV738 Top Shoot Bolt	1	Each	ACW20465 ACW20466	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACDV742 200mm Extension for ACDV738	1	Each	ACW20465 ACW20466	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACDV744 400mm Extension for ACDV738	1	Each	ACW20465 ACW20466	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		

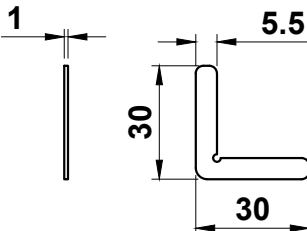
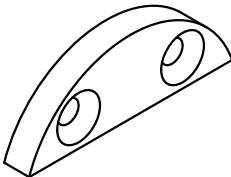
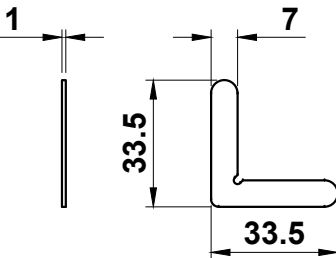
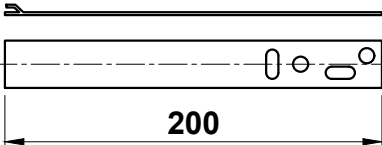
Image	Part Code	Pack	Unit	Application	Colour	
	ACDV746 600mm Extension for ACDV738	1	Each	ACW20465 ACW20466	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACEC025 Stainless Steel Chevron	100	pack	W20417 W20429	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACET041 Cill Nose Bracket	1	each	ETC451 ETC452 ETC457 ETC458 ETC479	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACET045 Stainless Steel Chevron	100	pack	W20415	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACET130 Galvanised Steel Fixing Strap 200mm x 25mm x 1.5mm	100	pack	W20415 W20417	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		

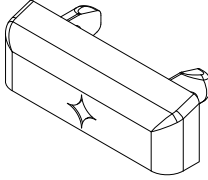
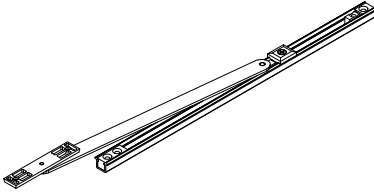
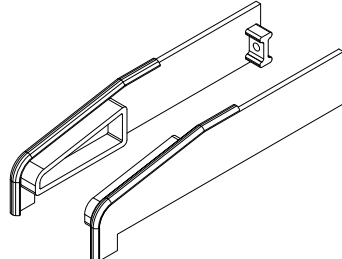
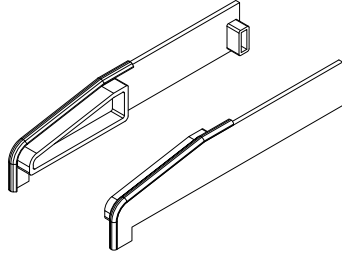
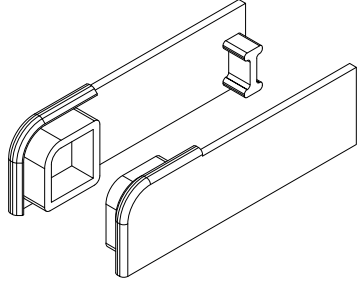
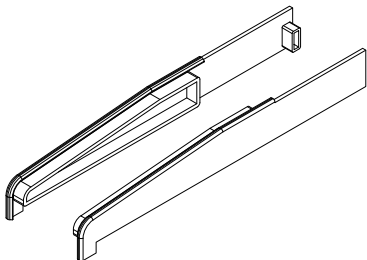
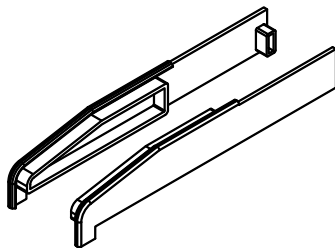
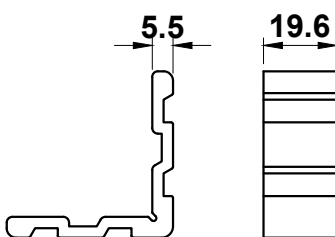
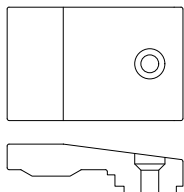
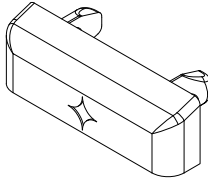
Image	Part Code	Pack	Unit	Application	Colour	
	ACET131 Drainage Cap for colour match drainage cap - see ACET432	100	pack		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	✓
					Z	✓
					PC	
	ACET149 90° Slimline Restrictor	1	each		MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACET152 PVC Cill End Caps	10	pair	ETC452	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	✓
					Z	✓
					PC	
	ACET157 PVC Cill End Caps	10	pair	ETC457	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	✓
					Z	✓
					PC	
	ACET178 PVC Cill End Caps	10	pair	ETC451	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	
	ACET179 PVC Cill End Caps	10	pair	ETC479	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	✓
					Z	✓
					PC	
	ACET258 PVC Cill End Cap	10	pair	ETC458	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	✓
					Z	✓
					PC	
	ACET310 Corner Cleat	24	pack	W20415 W20417	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACET380 Run Up Block	100	pack	W20415 W20417	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	✓
					Z	✓
					PC	
	ACET432 Colour Match Drainage Cover Cap	8	pack		MF	
					SA	
					KL	✓
					HP	
					SSC	
					SMC	✓
					W	✓
					Z	
					PC	
 T-BARS ACVG65=2.5mm ACVG68=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				

ACCESSORIES : PHOTOS & DRAWINGS

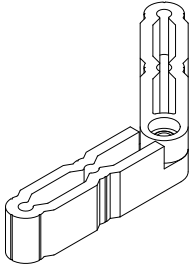
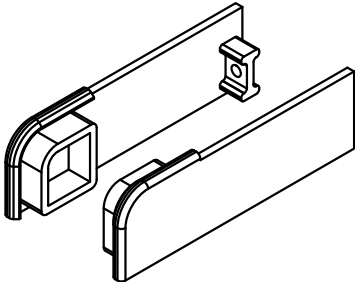
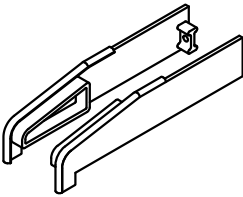
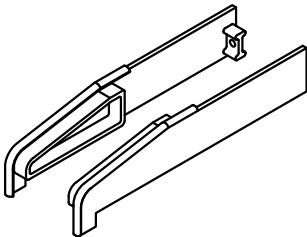
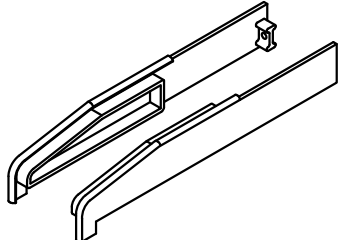
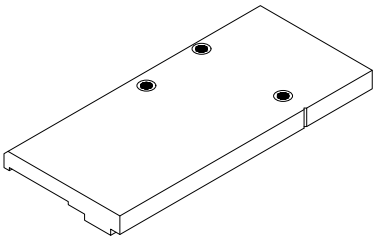
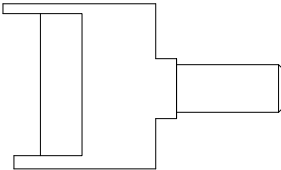
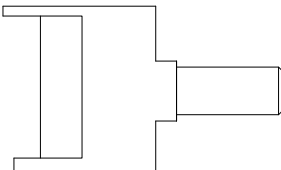
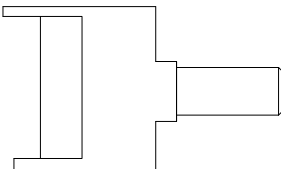
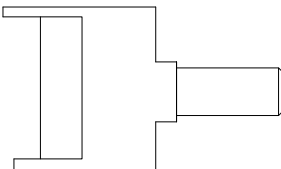
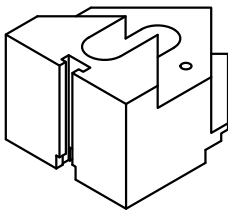
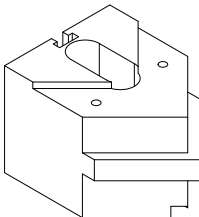
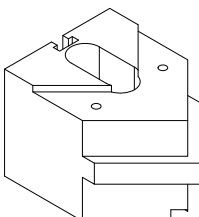
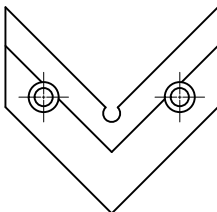
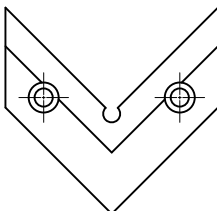
Image	Part Code	Pack	Unit	Application	Colour	
	ACET440 Variable Cill Angle Bracket	1	each	ETC451 ETC452 ETC457 ETC458 ETC479N	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACET451 Cast Cill End Caps (Pair)	1	pair	ETC451	MF	✓
					SA	
					KL	✓
					HP	✓
					SSC	
					SMC	
					W	✓
					Z	✓
					PC	
	ACET452 Cast Cill End Caps (Pair)	1	Pair	ETC452	MF	✓
					SA	
					KL	✓
					HP	✓
					SSC	
					SMC	
					W	✓
					Z	✓
					PC	
	ACET457 Cast Cill End Caps (Pair)	1	Pair	ETC457	MF	✓
					SA	
					KL	✓
					HP	✓
					SSC	
					SMC	
					W	✓
					Z	✓
					PC	
	ACET458 Cast Cill End Caps (Pair)	1	Pair	ETC458	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	
	ACET479N Cast Cill End Caps (Pair)	1	Pair	ETC479	MF	✓
					SA	
					KL	✓
					HP	✓
					SSC	
					SMC	
					W	✓
					Z	✓
					PC	
	ACET569 Astragal Bar Tape 10mm x 1mm	50	m	W20165	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACET615 Corner Cleat	24	pack	W20417	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACET647 Corner Cleat	24	pack	W20418	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACET846 Corner Cleat	24	pack	W20429	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	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			

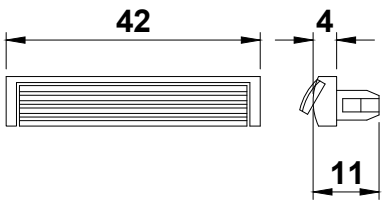
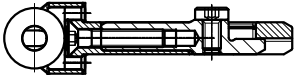
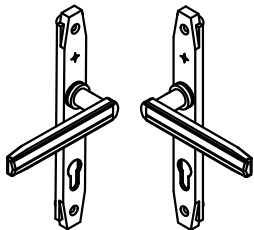
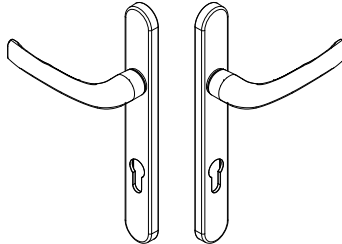
ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	ACW939 Door Drill Jig (Must be clamped in position)	1	each	W20424 W20430	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACW940 Crimp Punches	1	pair	W20415	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACW941 Crimp Punches	1	pair	W20429	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACW942 Crimp Punches	1	pair	W20424	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACW943 Crimp Punches	1	pair	W20417	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		

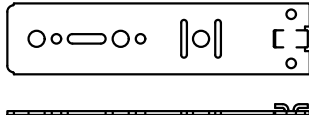
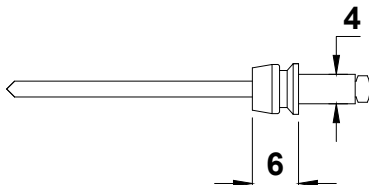
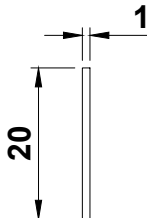
ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour
	ACW944 Vee Block	1	each	W20415 W20417	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACW946 Vee Block	1	each	W20424	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACW947 Vee Block	1	each	W20429	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACW948 Vee Block Packer	1	each	W20424	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACW949 Vee Block Packer	1	each	W20424	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		

ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	ACGSL045 Drainage Cap	100	pack		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	✓
					Z	✓
					PC	
	ACPD690 Roller Latch	1	each	W20465	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACSM001N Art Deco Lever/Lever Door Handle	1	pair	ACW20465 ACW20466	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	✓
					Z	✓
					PC	
	ACSM060 Heritage Lever/Lever Handle	1	pair	ACW20465 ACW20466	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	✓
					Z	✓
					PC	
					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				

ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
 	ACUN23X Screw Fixing Lug B x 38mm x 2mm ACUN230: B = 160mm ACUN232: B = 240mm ACUN233: B = 280mm	100	Pack	ETC451 ETC452 ETC457 ETC458	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACUN3532 M4 Threaded Insert	20	pack		MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACVL061 Rivet to secure VL72	100	Pack	VL72	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACVL069 Astragal Bar Tape 20mm x 1mm	33	m	W20166	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
					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			

ACCESSORIES : PHOTOS & DRAWINGS

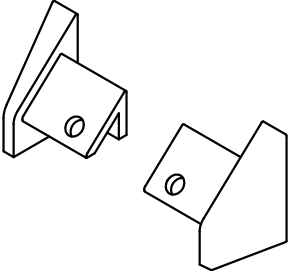
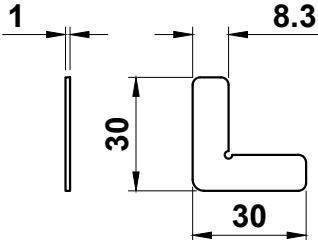
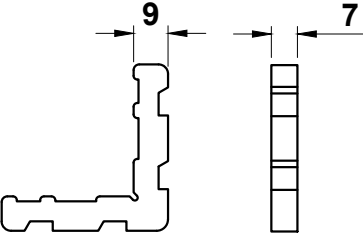
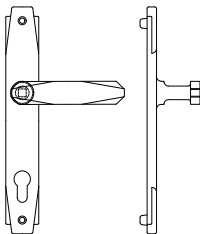
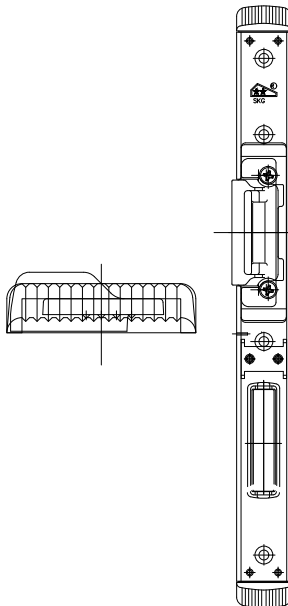
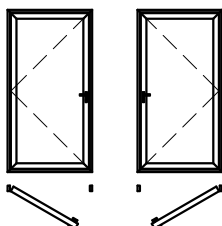
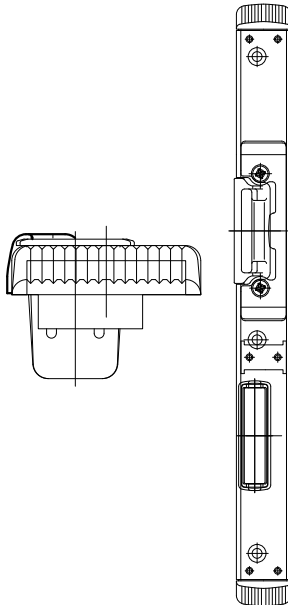
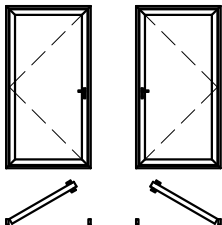
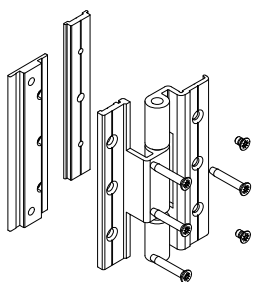
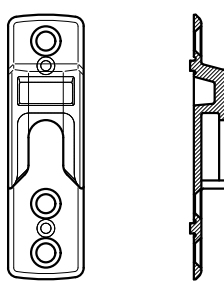
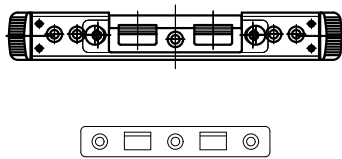
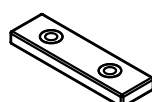
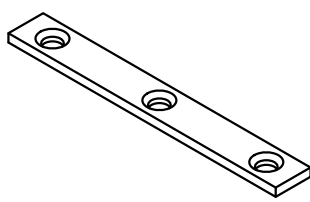
Image	Part Code	Pack	Unit	Application	Colour	
	ACVL072 Cast End Cap	2	Pair	VL72	MF	
					SA	
					KL	✓
					HP	✓
					SSC	
					SMC	
					W	✓
					Z	✓
					PC	
	ACVS033 4.8mm x 9mm Black Woolpile with Fin	150	m	W20472 W20474	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	✓
					PC	
	ACW20024 Stainless Steel Chevron	100	pack	W20424	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACW20056 Corner Cleat	24	pack	W20418	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACW20062 Art Deco Lever / Lever Handle Includes Cylinder Cut Out Available in Antique Brass and Satin Nickel Plate	1	Pair	ACW20465 ACW20466	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	
	ACW20066 L/R Open Out Centre Keep Viewed Externally  Left Hand Open Out Right Hand Open Out	1	each	ACW20465	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
						ACW20166 L/R Open In Centre Keep Viewed Externally  Right Hand Open In Left Hand Open In
SA						
KL						
HP						
SSC						
SMC						
W						
Z						
PC						
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
 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			PC	

ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	ACW20121 Crimping Cleat	24	pack	W20424	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACW20127 Crimping Cleat	24	pack	W20424	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACW20164 Open In Hinge Kit	1	each	W20429	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACW20261 Standard Lever/Lever Handle Fixing kit supplied	1	pair	ACW20065 ACW20466	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACW20263 Fixed Lever Block	1	each	ACW20063	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	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				

ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	ACW20360 Open Out Hinge Kit	1	each	W20424	MF	
					SA	
					KL	✓
					HP	
					SSC	
					SMC	
					W	✓
					Z	✓
					PC	
	ACW20367 Rollers Keep	1	each	ACW20465	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACW20375 Hinge Protectors	1	each	W20424 W20429 ACW20465	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACW20382 M4 Fixing Plate	10	pack	ACET269 W20415 W20417	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACW20383 M4 Fixing Plate	8	Pack	W20429	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		

ACCESSORIES : PHOTOS & DRAWINGS

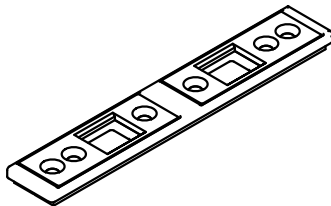
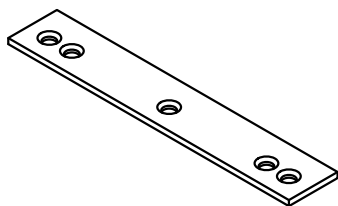
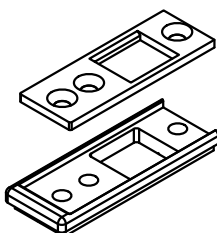
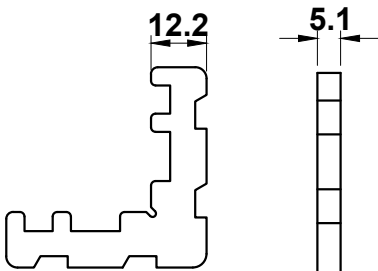
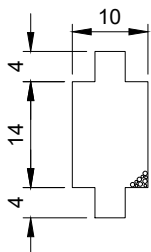
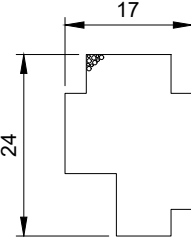
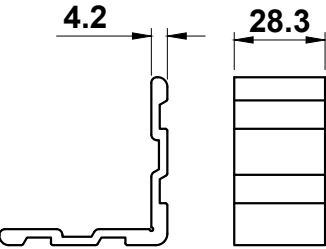
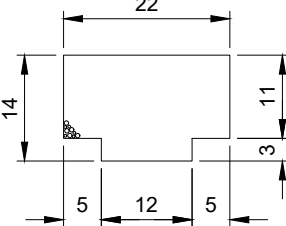
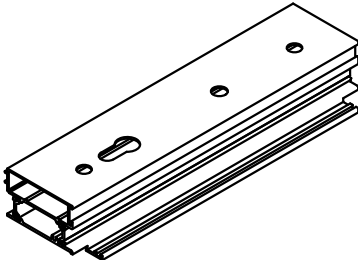
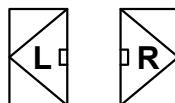
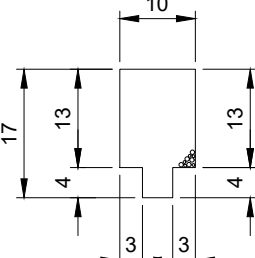
Image	Part Code	Pack	Unit	Application	Colour	
	ACW20385 Open in Double Door Keep Kit	1	each	W20415 W20417 W20470 ACW20386	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACW20386 M4 Fixing Plate	8	Pack	W20415 W20417 W20470 ACW20385	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	✓
					PC	
	ACW20388 Open In Single Door Keep Kit	2	Pack	W20415 W20417 W20470	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACW20415 Crimping Cleat	24	pack	W20415	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACW20417 Foam Infill 1250mm Lengths	1	each	W20415 W20417 W20472	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 PC
	ACW20424 Foam Infill 1250mm Lengths	1	each	W20424	MF SA KL HP SSC SMC W Z PC
	ACW20429 Crimping Cleat	24	pack	W20429	MF SA KL HP SSC SMC W Z PC
	ACW20430 Foam Infill 1250mm Lengths	1	each	W20430	MF SA KL HP SSC SMC W Z PC
	ACW20438 L/R 285mm Pre Prepared Lock Casing Open In & Open Out 	1	each	W20424 W20429	MF SA KL HP SSC SMC W Z PC
	ACW20446 Foam Infill 1250mm Lengths	1	each	W20446	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			

ACCESSORIES : PHOTOS & DRAWINGS

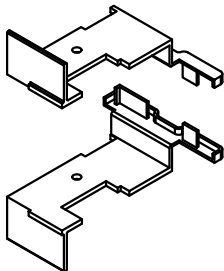
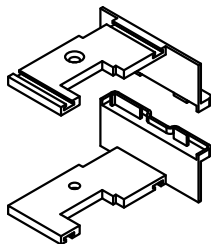
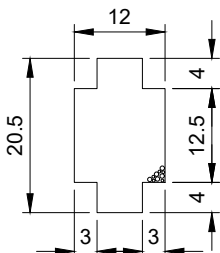
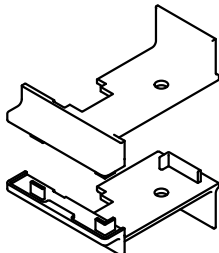
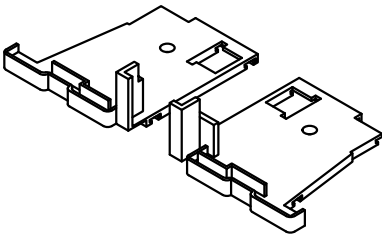
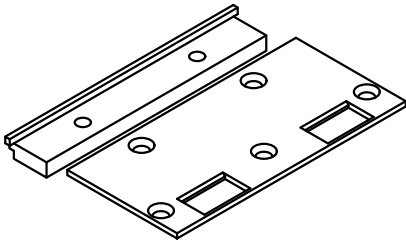
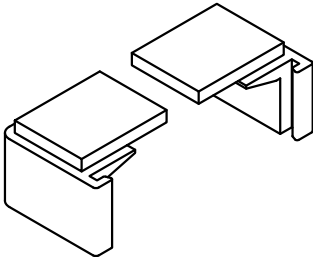
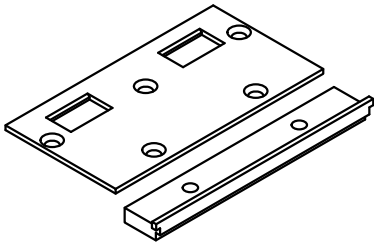
Image	Part Code	Pack	Unit	Application	Colour
	ACW20447 W20446 End Caps - Full Frame For Open Out Door	1	pair	W20446	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACW20448 W20446 End Caps - Low Threshold For Open Out Door	1	pair	W20446	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACW20449 Foam Infill 1250mm Lengths	1	each	W20449	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACW20450 W20446 End Caps - Full Frame For Open In Door	1	pair	W20449	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACW20451 W20446 End Caps - Low Threshold For Open In Door	1	pair	W20449	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
	ACW20452 Open Out Double Door Keep	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACW20453 Low Threshold End Caps	1	pair	W20417	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACW20462 Open Out Double Door Low Threshold Keep	1	each	W20415 W20417	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
 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			

ACCESSORIES : PHOTOS & DRAWINGS

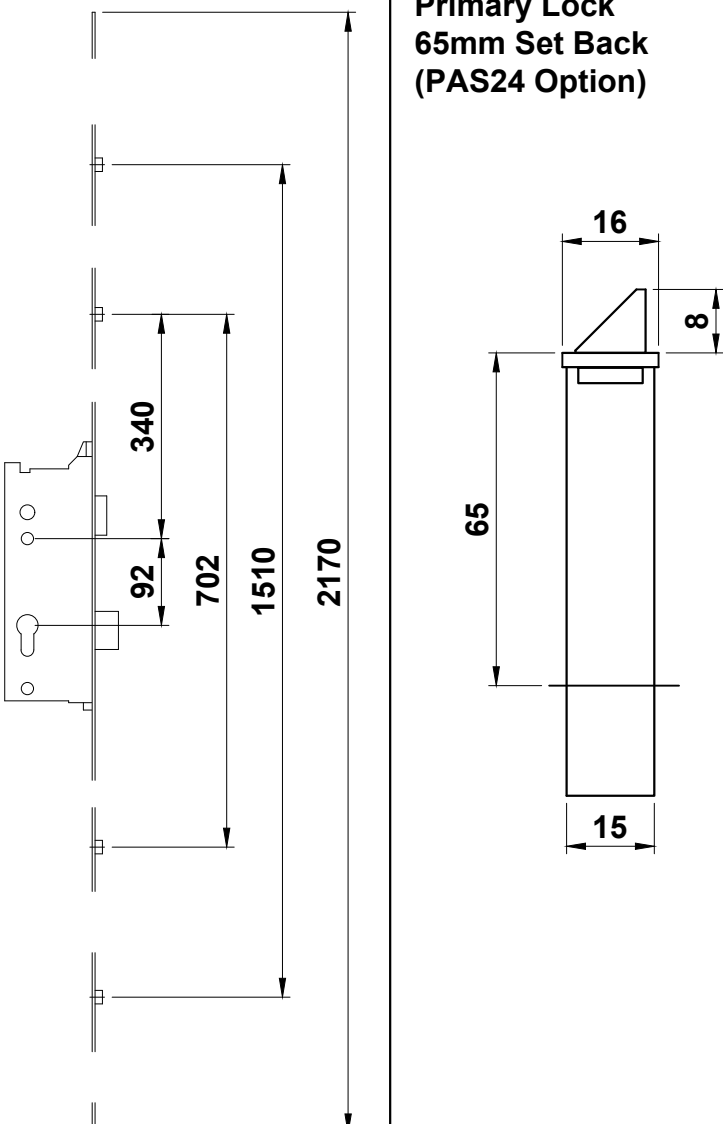
Image	Part Code	Pack	Unit	Application	Colour	
	ACW20465 Euro Cylinder Profile Open In & Out Primary Lock 65mm Set Back (PAS24 Option)	1	each	ACW20166 ACW20367 ACW20466 W20424 W20429	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 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			

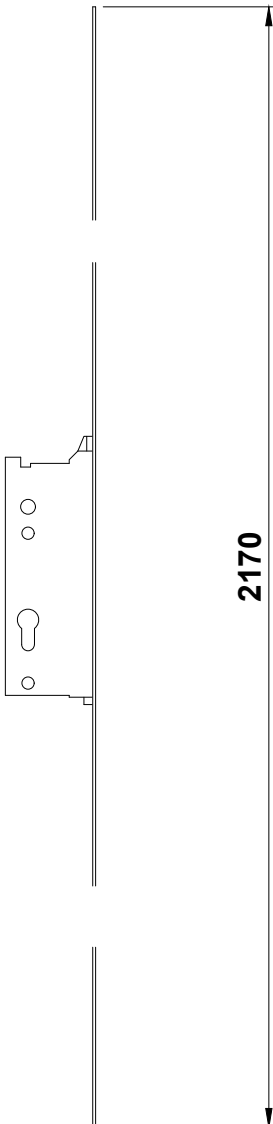
Image	Part Code	Pack	Unit	Application	Colour	
	ACW20466 Euro Cylinder Profile Open In & Out Secondary Lock 65mm Set Back (PAS24 Option)	1	each	ACW20465 W20424 W20429	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	

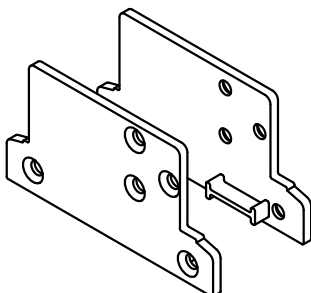
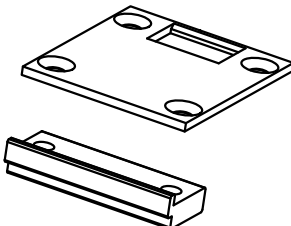
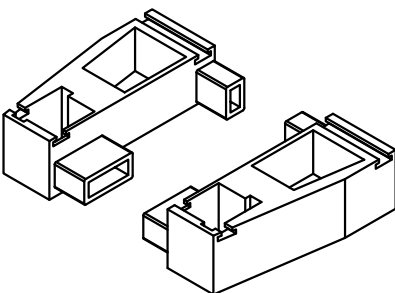
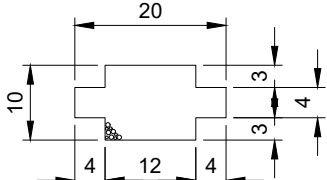
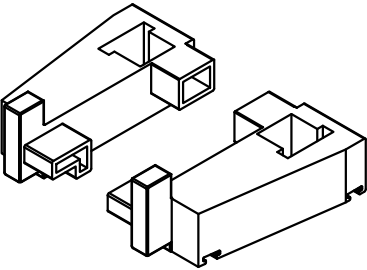
Image	Part Code	Pack	Unit	Application	Colour
	ACW20470 W20470 Brackets	1	pair	W20470	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACW20472 Open Out Single Door Keep	2	pack	W20415 W20417 W20470	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACW20473 W20472 End Caps For Open Out Door	1	pair	W20472	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACW20474 Foam Infill 1250mm Lengths	1	each	W20474	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACW20493 W20474 End Caps For Open In Door	1	pair	W20474	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		

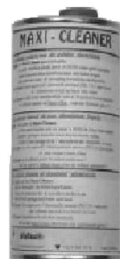
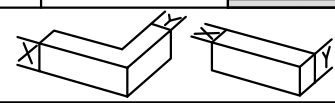
Image	Part Code	Pack	Unit	Application	Colour	
	ACMX09700 Alu. Polish	1	each		MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACMX09761 Maxi Gloss	1	each		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACMX09762 Alu. Bright	1	each		MF	
					SA	
					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	
 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		

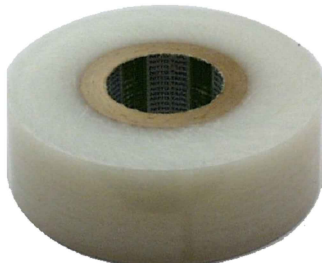
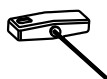
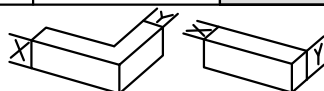
Image	Part Code	Pack	Unit	Application	Colour
	ACMX09765 Alu. Cleaner	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACMX09770 Roll & Wrap 100mm	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACMX09775 Grip Handwrap	1	each		MF
					SA
					KL
					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
 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	

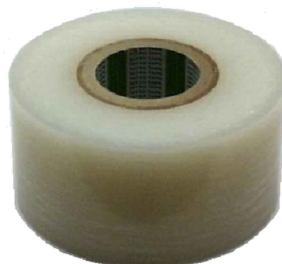
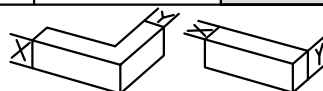
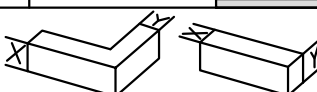
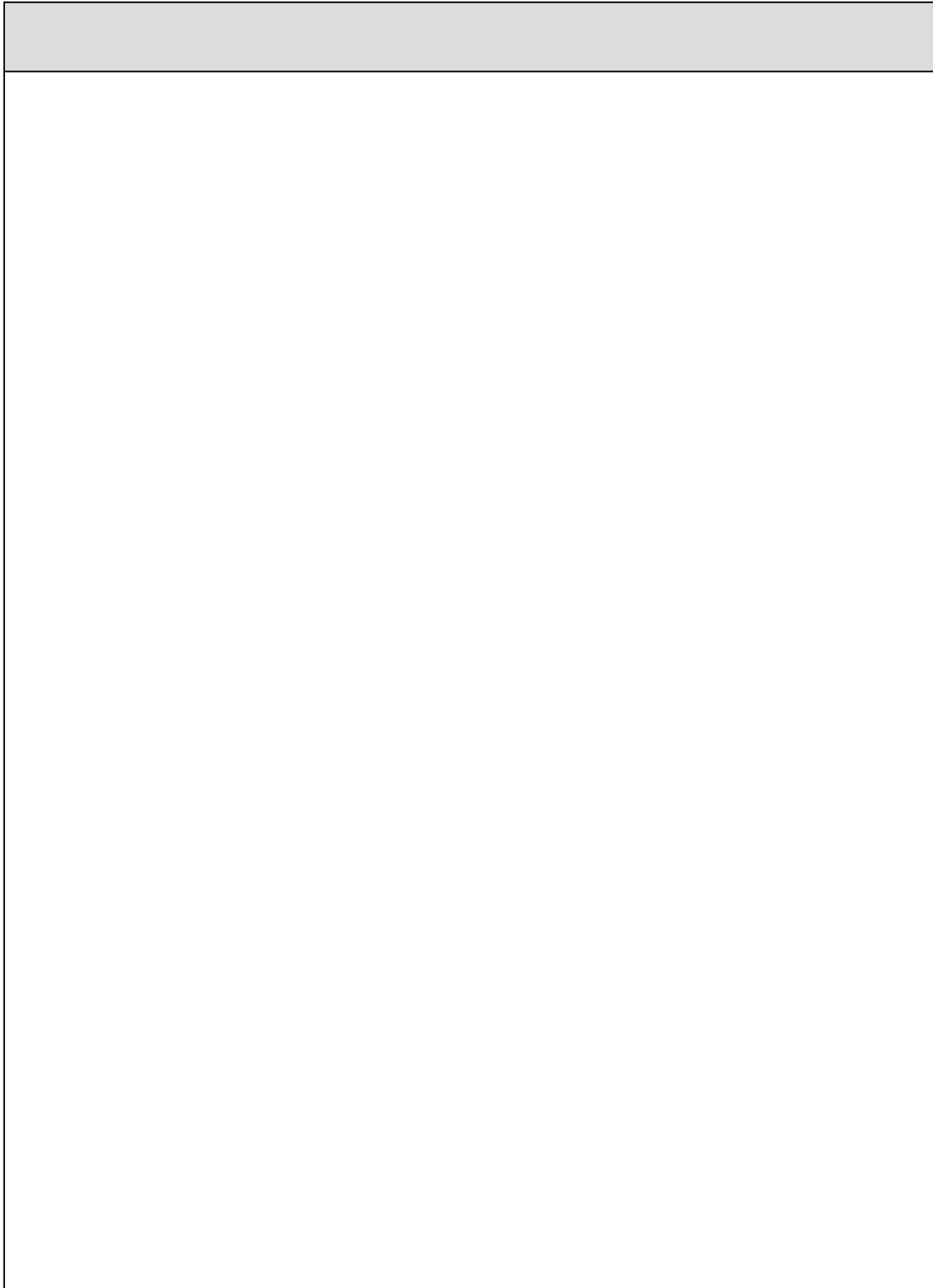
Image	Part Code	Pack	Unit	Application	Colour
	ACMX09803 Protective Tape 100mm	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACMX09830 Rubber Sealant	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACSIL04 Sealing Glue Order with suffix of KL colour (eg.ACSIL04KL005) or BL=Black/WP=White/ CL=Clear	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	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
 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	
	ACSIL014 Anti-Corrosion Coating	1	each		MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	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	
 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				MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
						

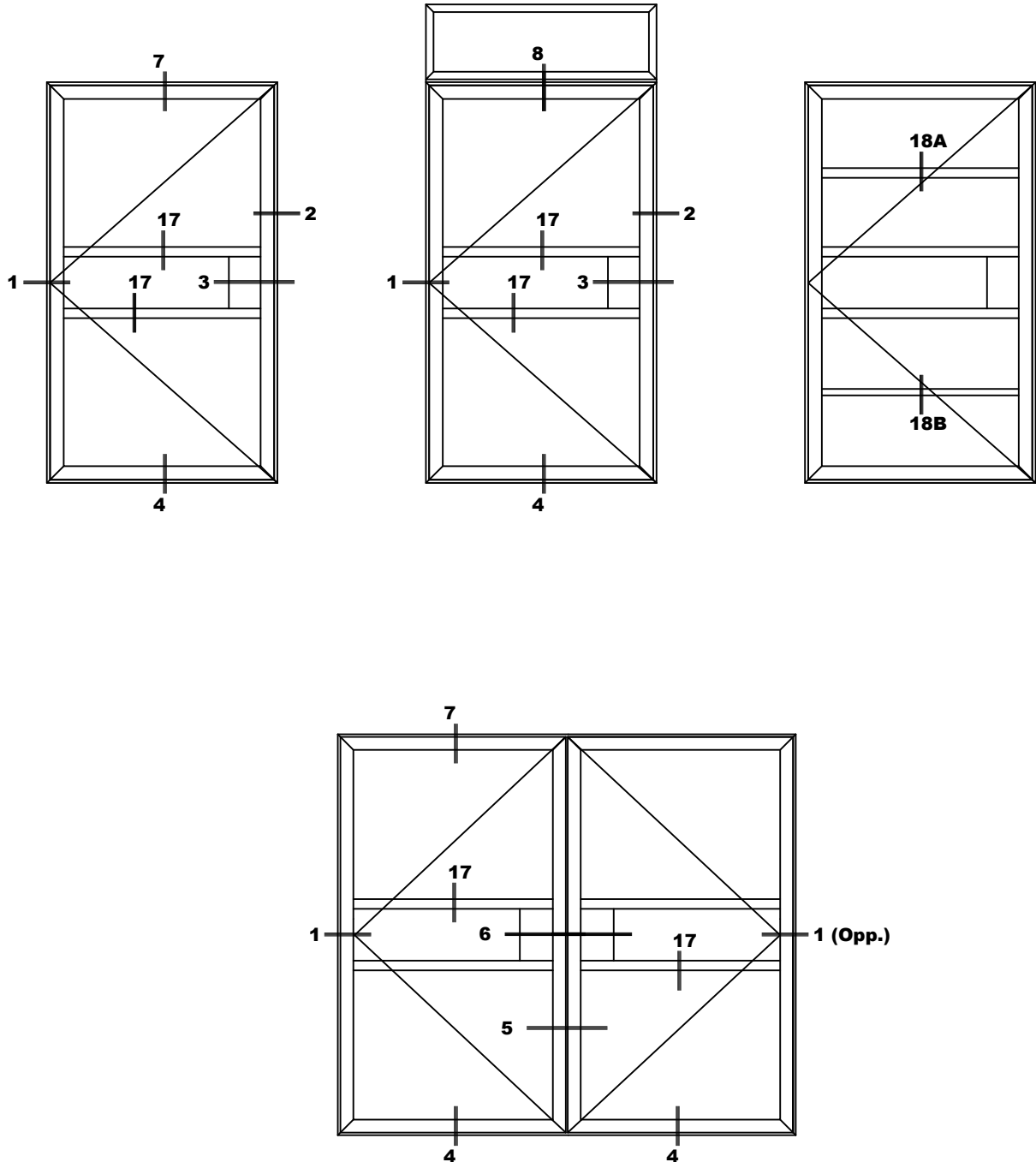
Section C

Sections

Scale Elevations

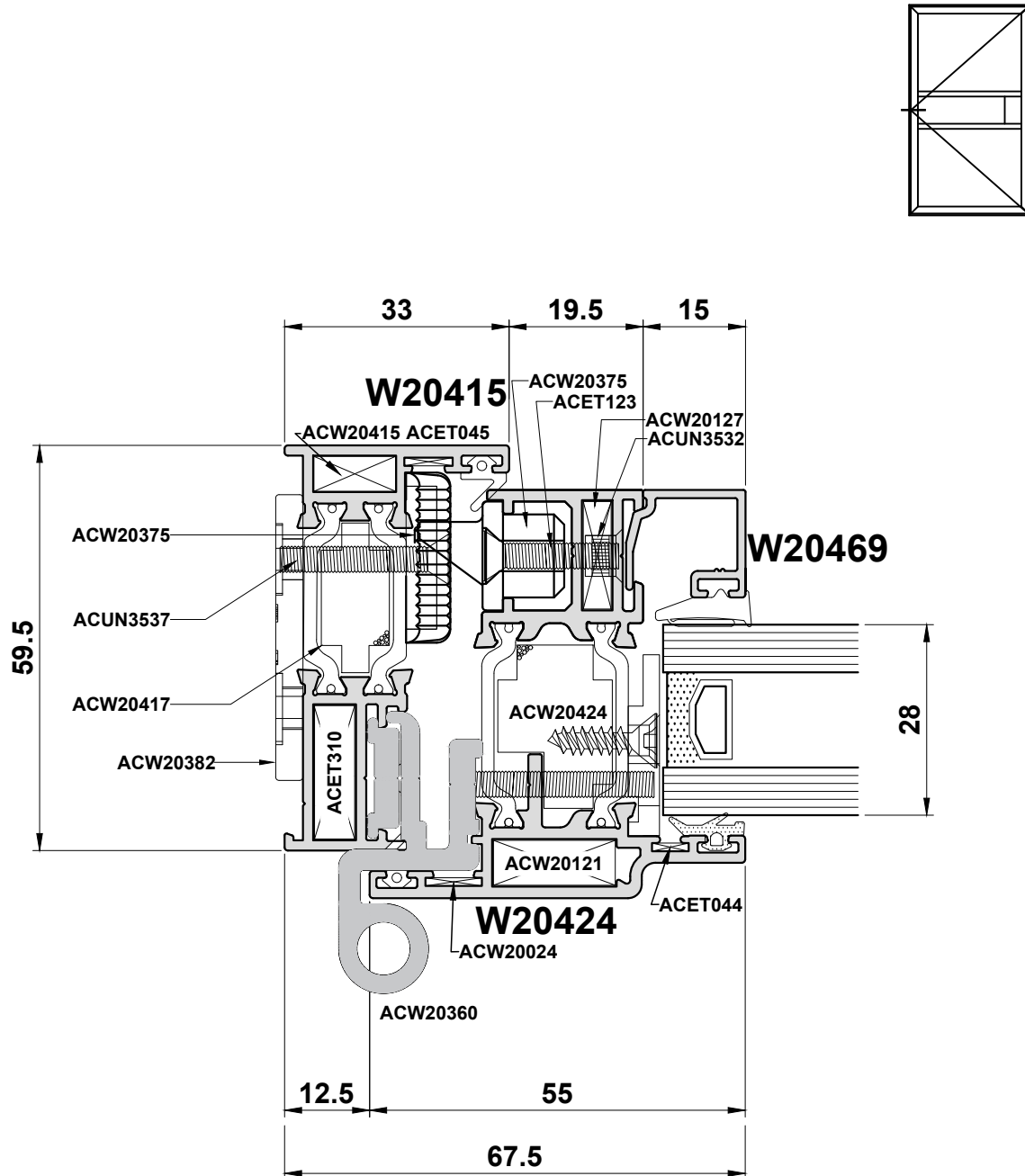


OPEN OUT DOORS



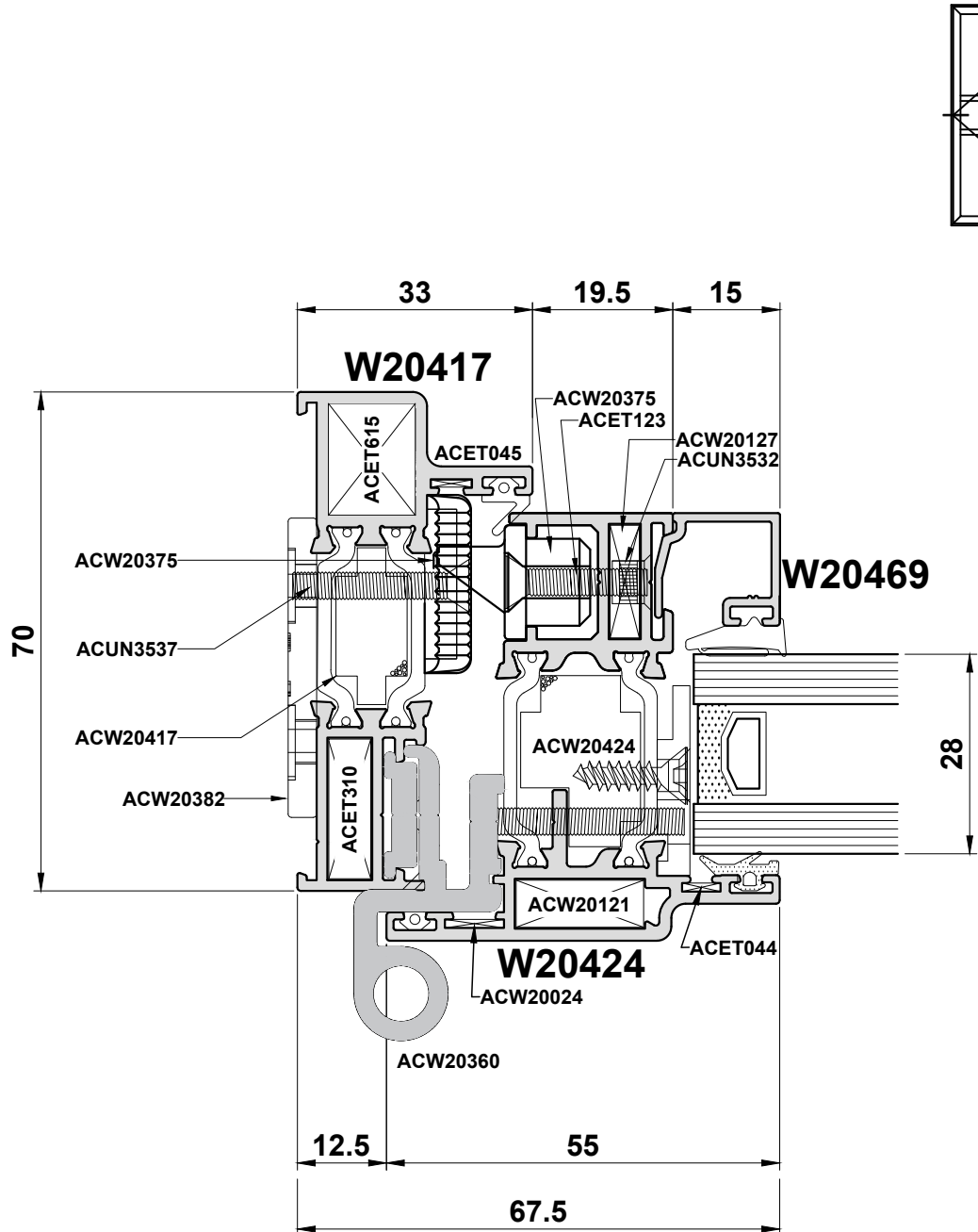
Do Not Scale From This Drawing

Detail 1A



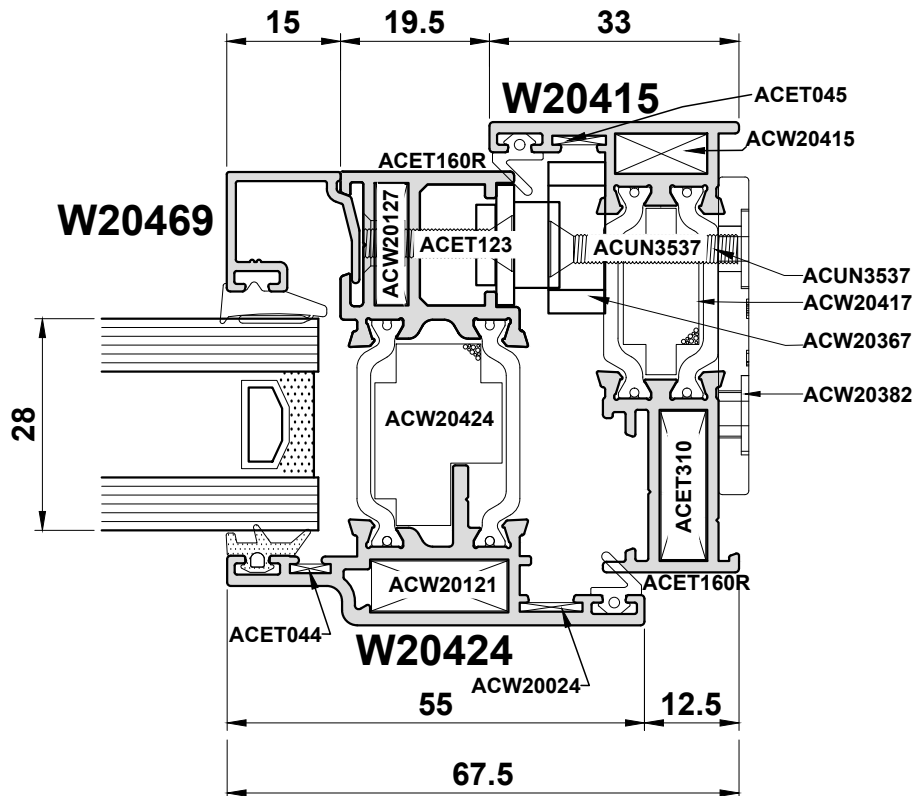
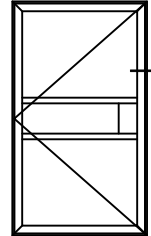
Do Not Scale From This Drawing

Detail 1B



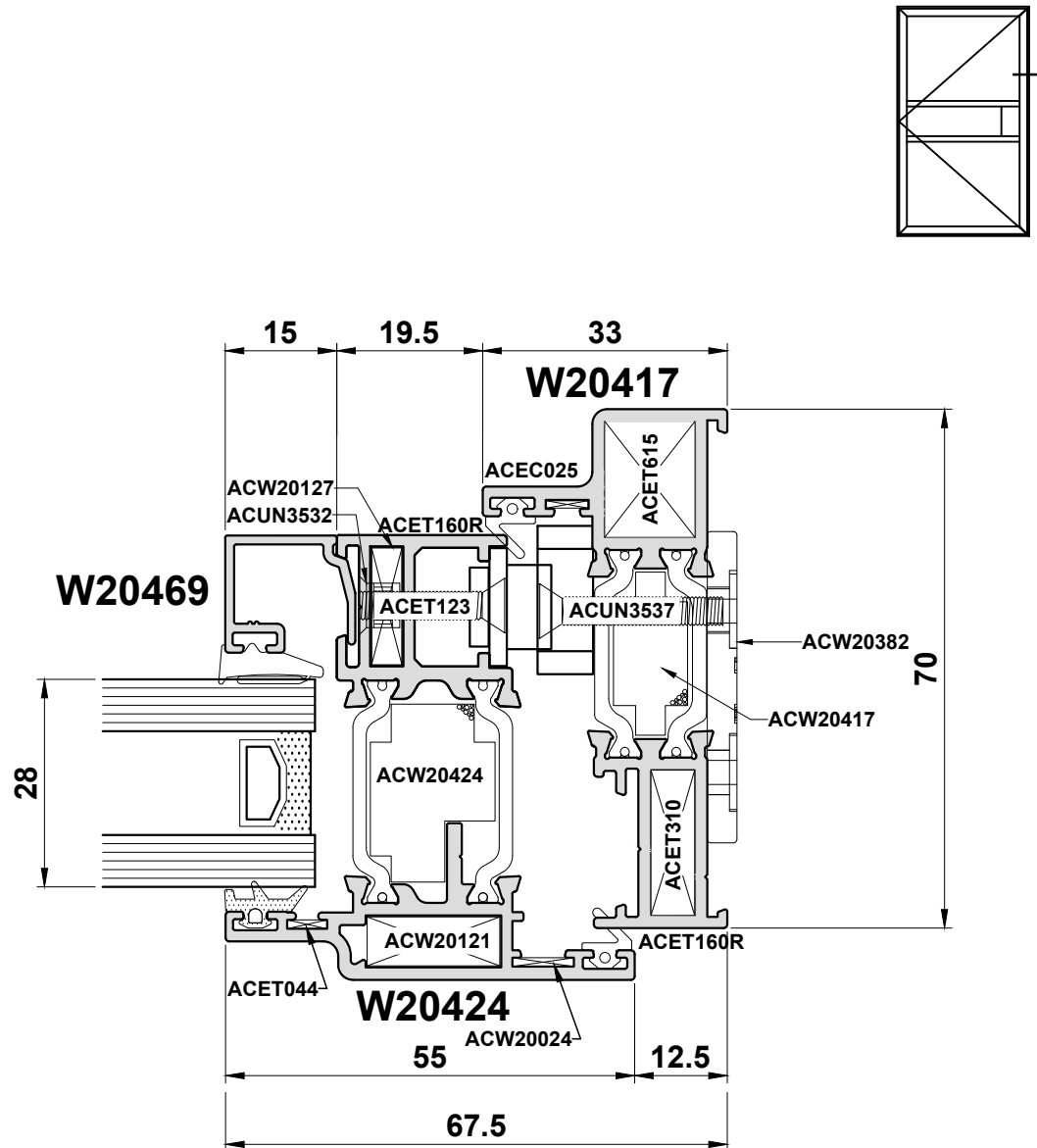
Do Not Scale From This Drawing

Detail2A



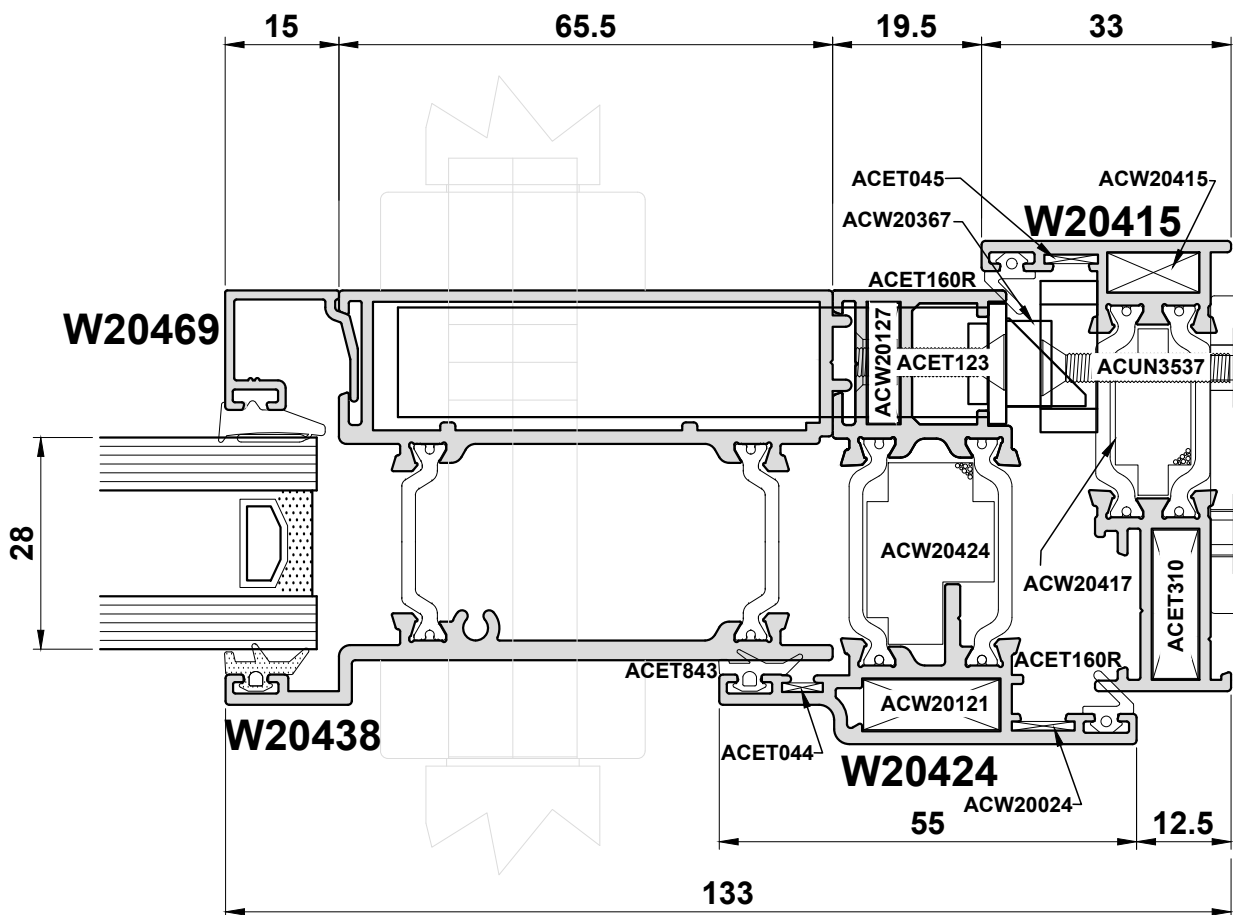
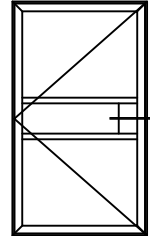
Do Not Scale From This Drawing

Detail 2B



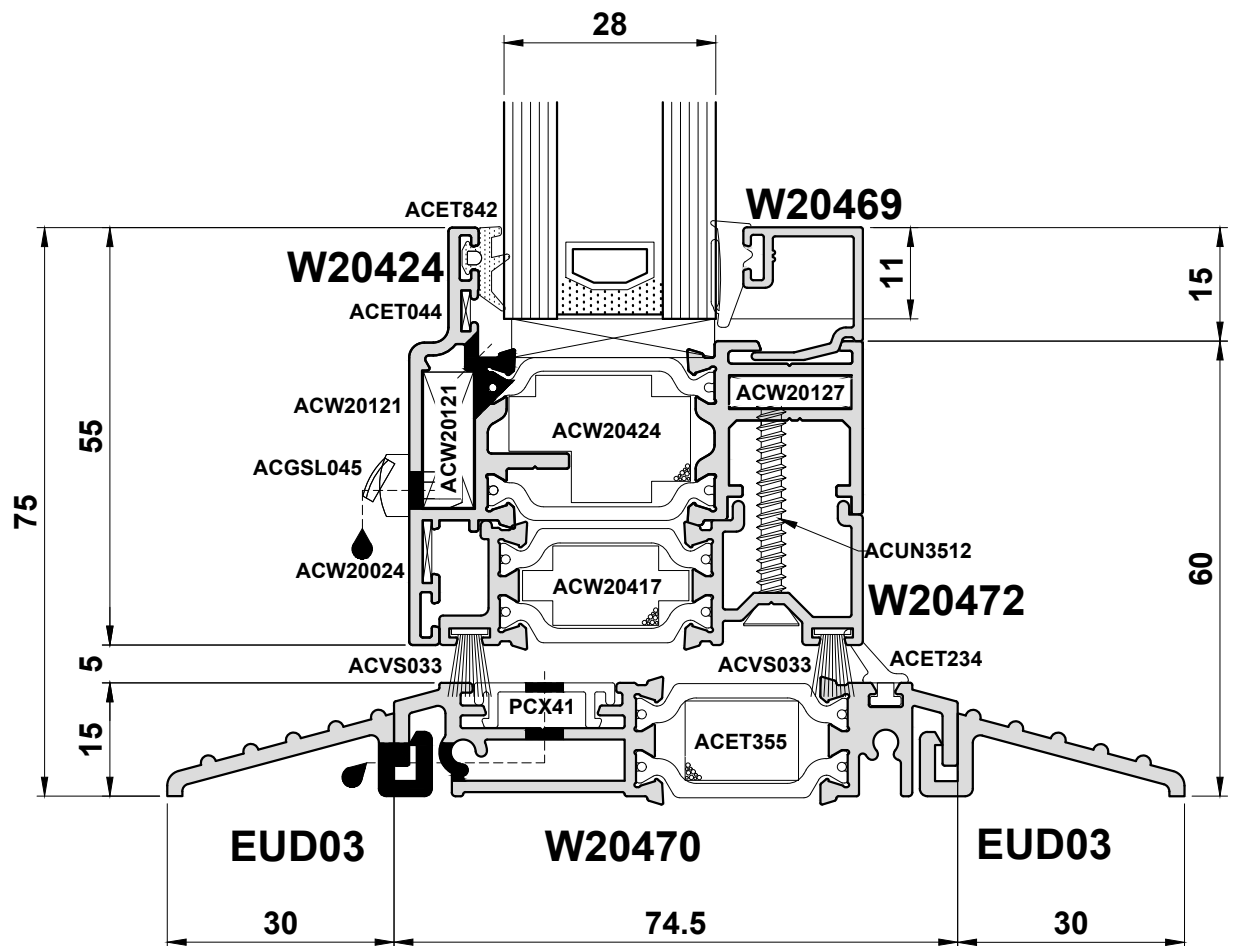
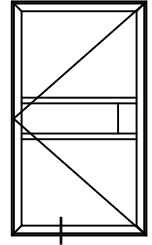
Do Not Scale From This Drawing

Detail 3



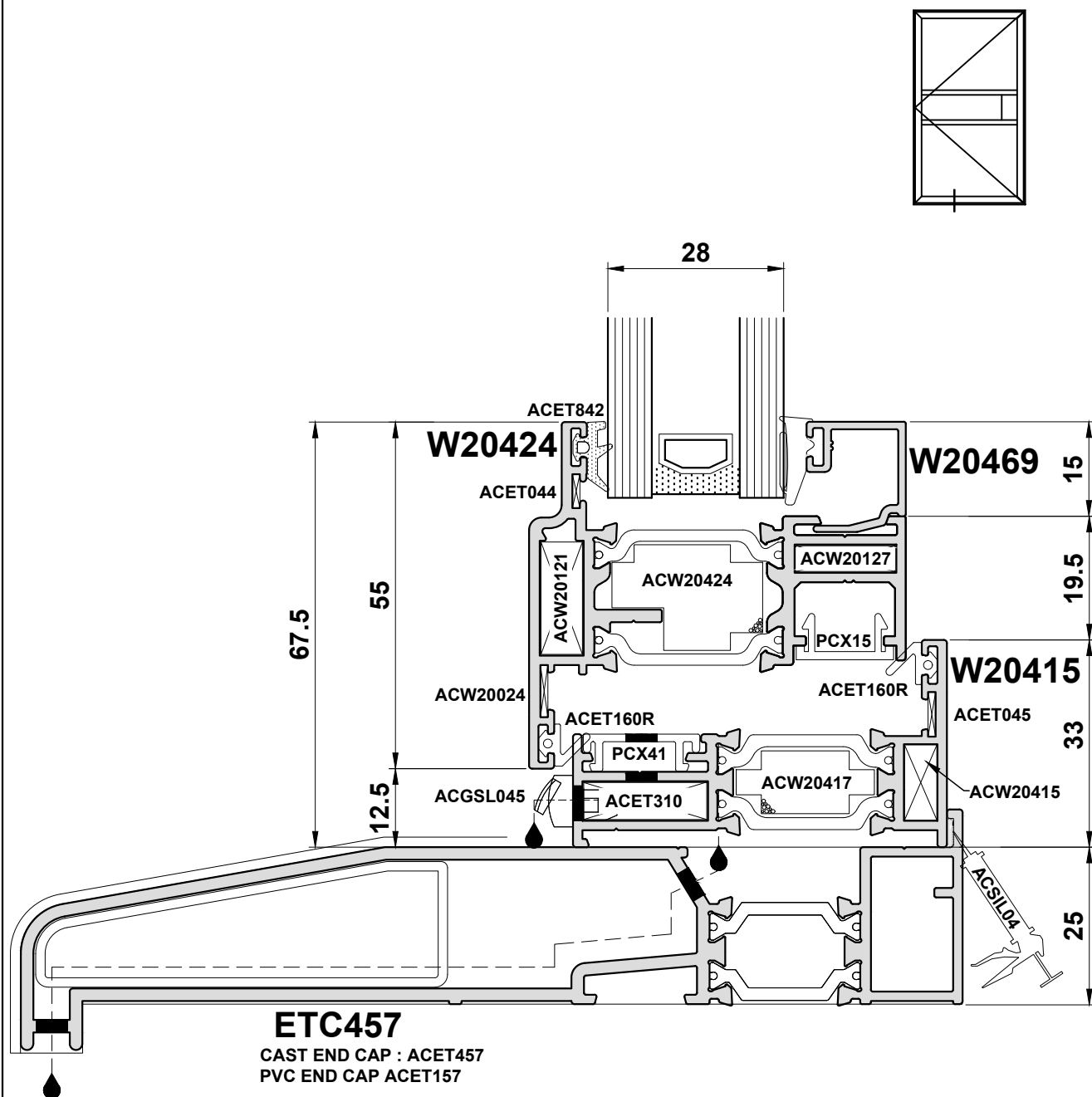
Do Not Scale From This Drawing

Detail 4A



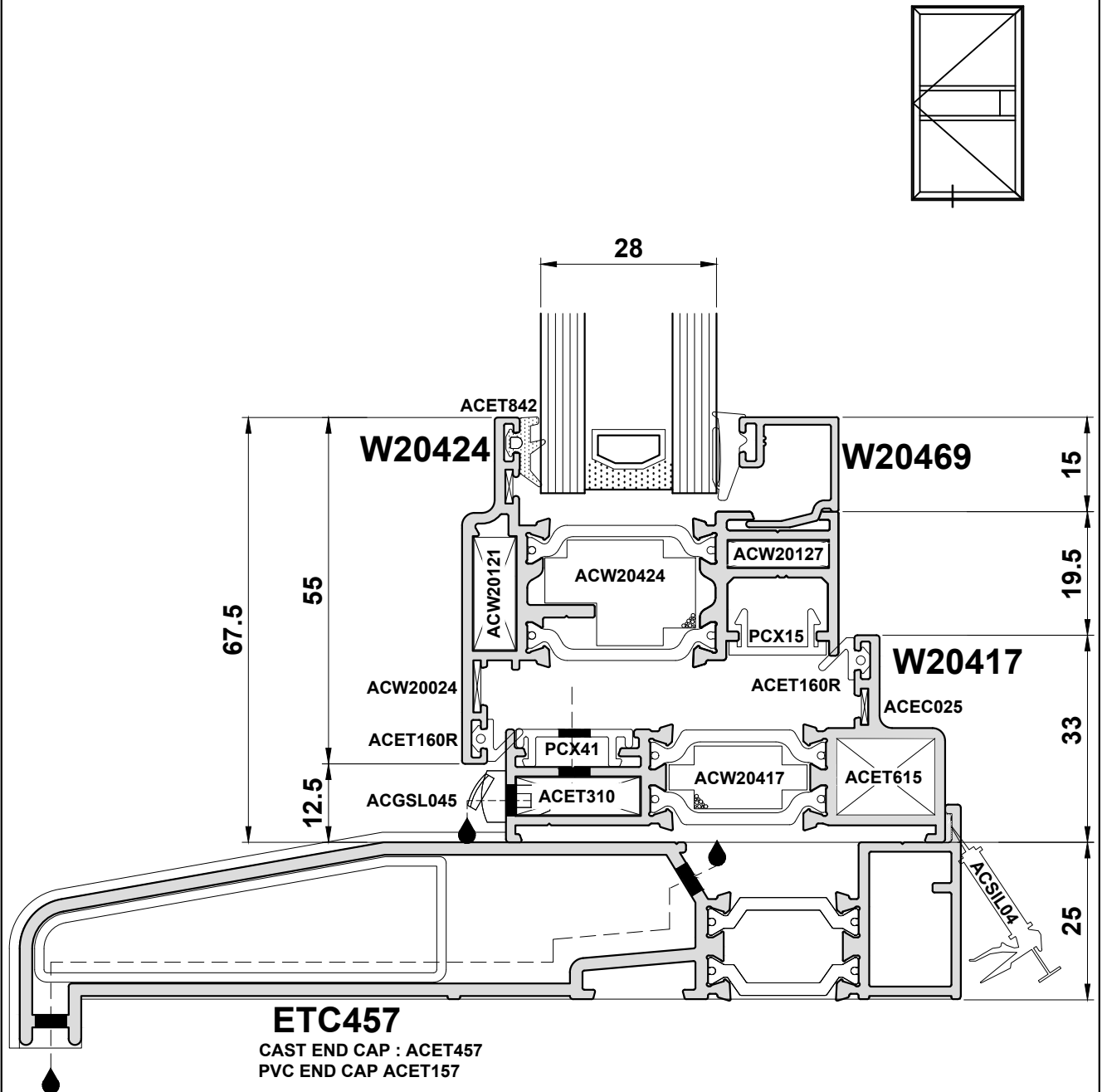
Do Not Scale From This Drawing

Detail 4B



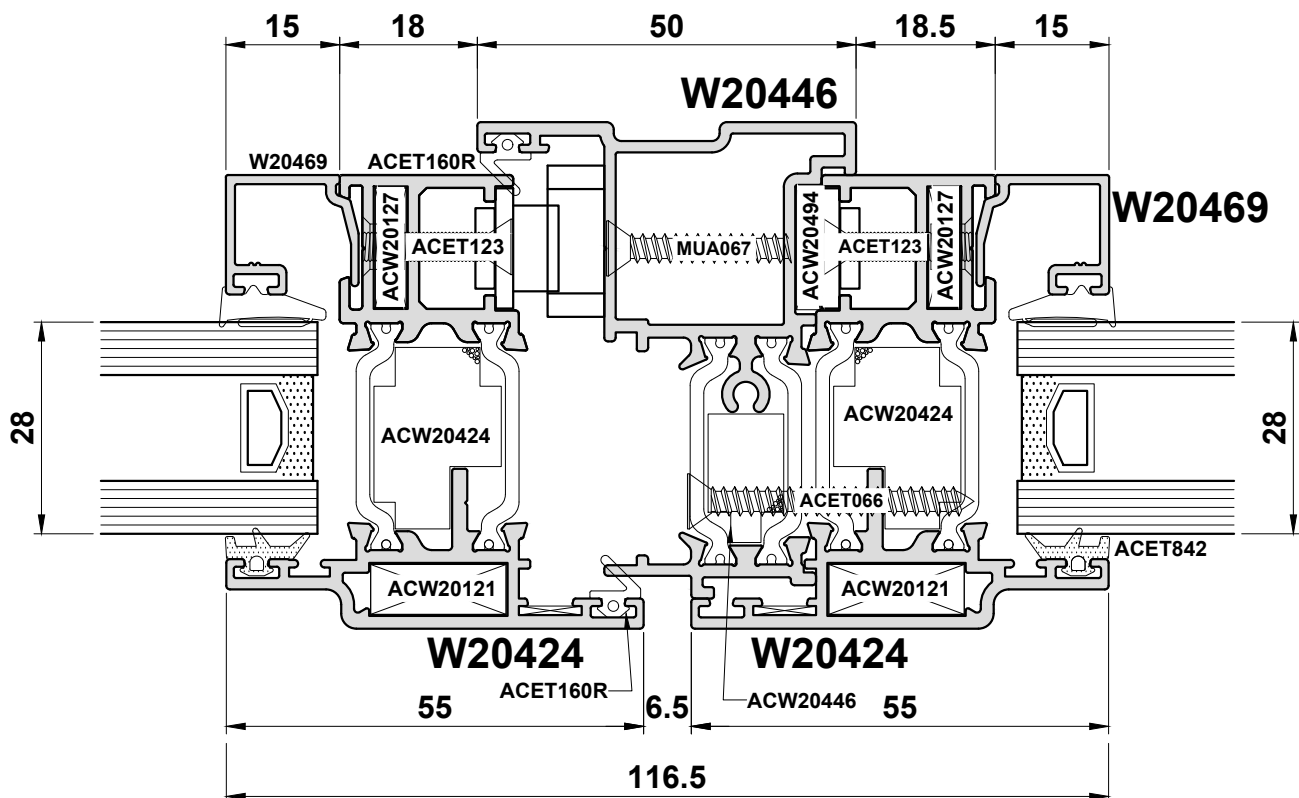
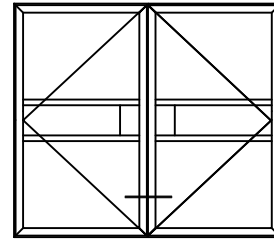
Do Not Scale From This Drawing

Detail 4C



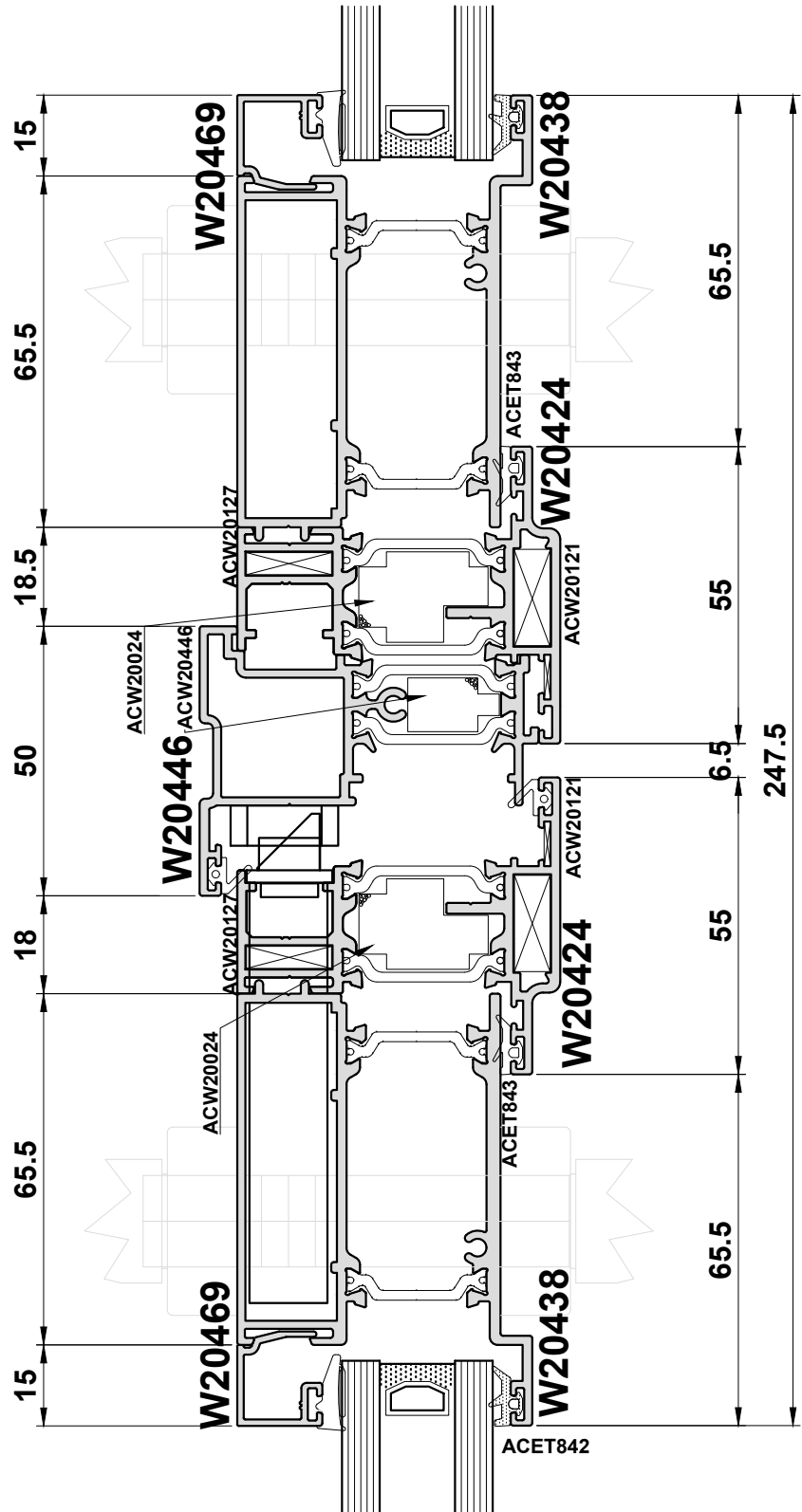
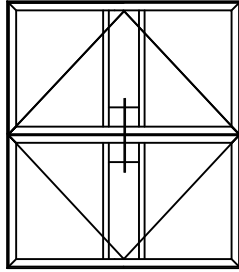
Do Not Scale From This Drawing

Detail 5



Do Not Scale From This Drawing

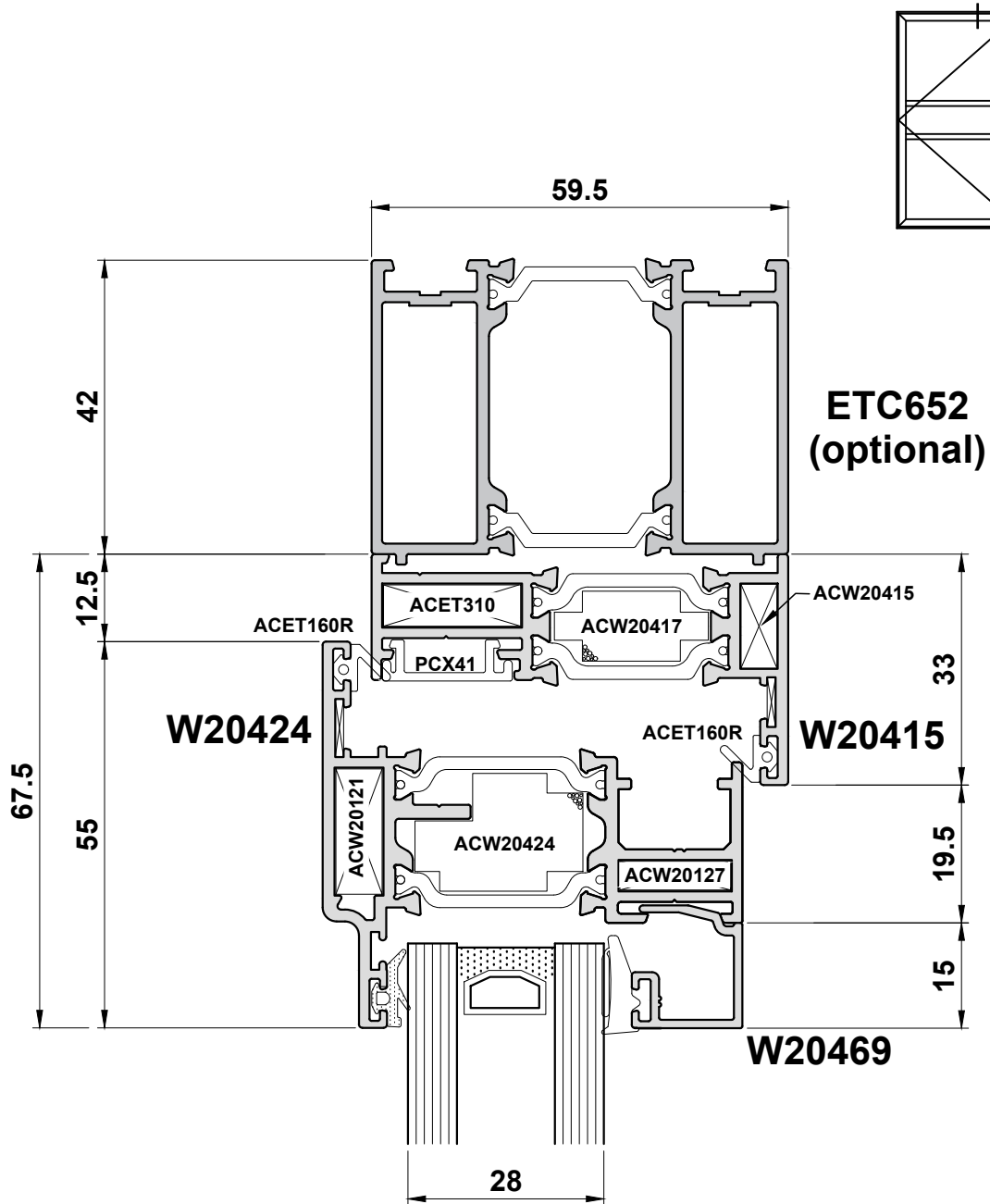
Detail 6



NOT TO SCALE

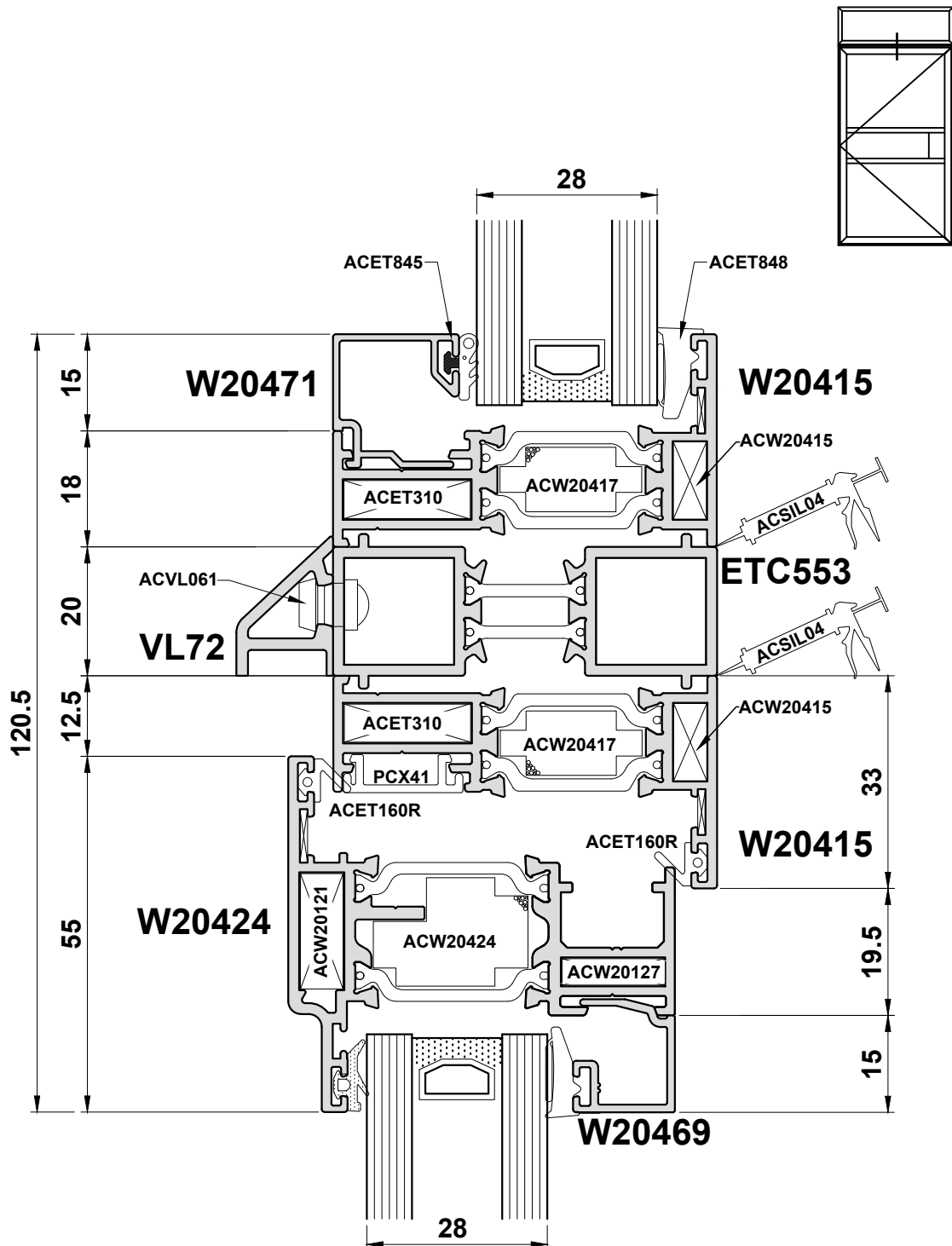
Do Not Scale From This Drawing

Detail 7



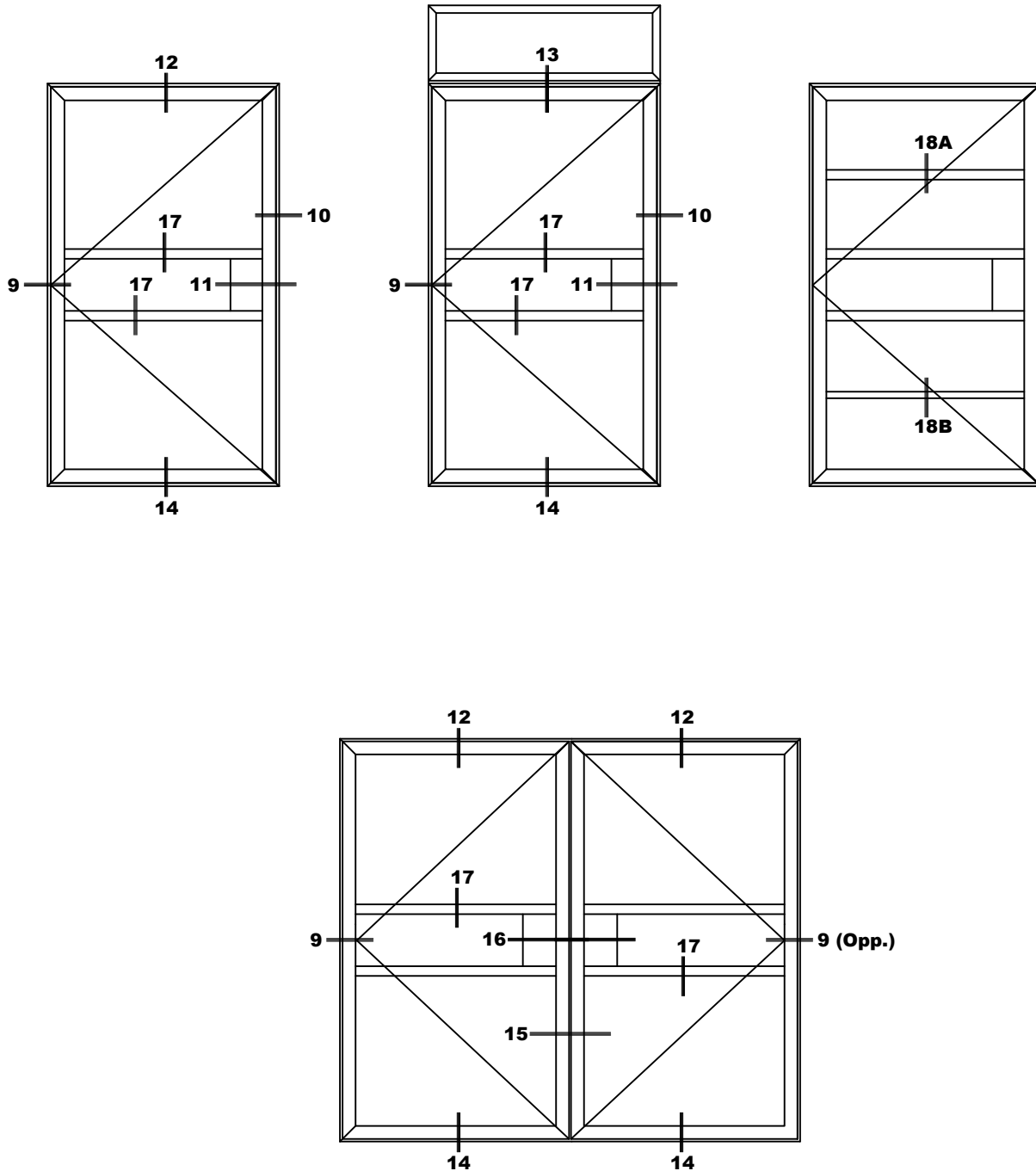
Do Not Scale From This Drawing

Detail 8



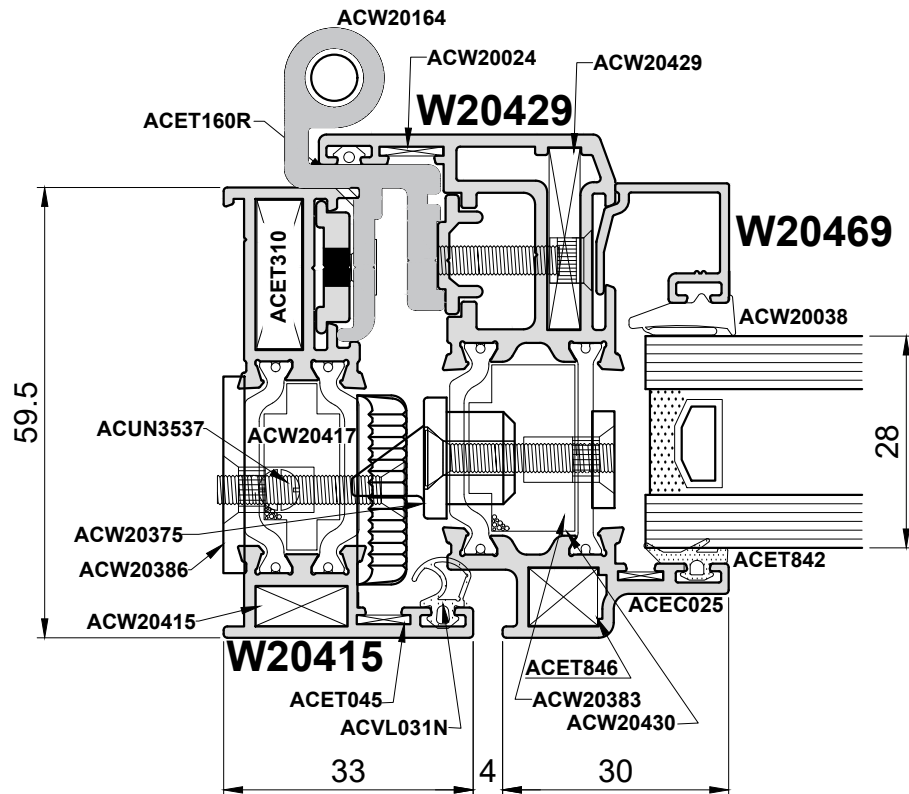
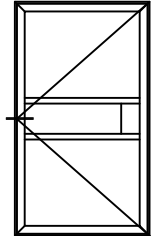
Do Not Scale From This Drawing

OPEN IN DOORS



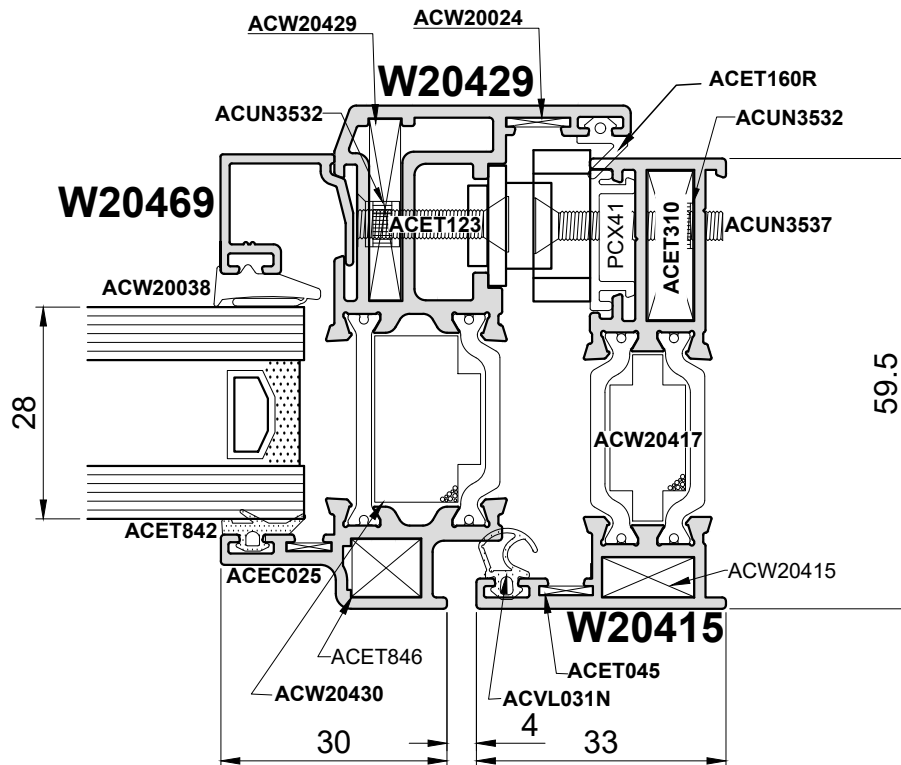
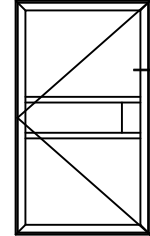
Do Not Scale From This Drawing

Detail 9



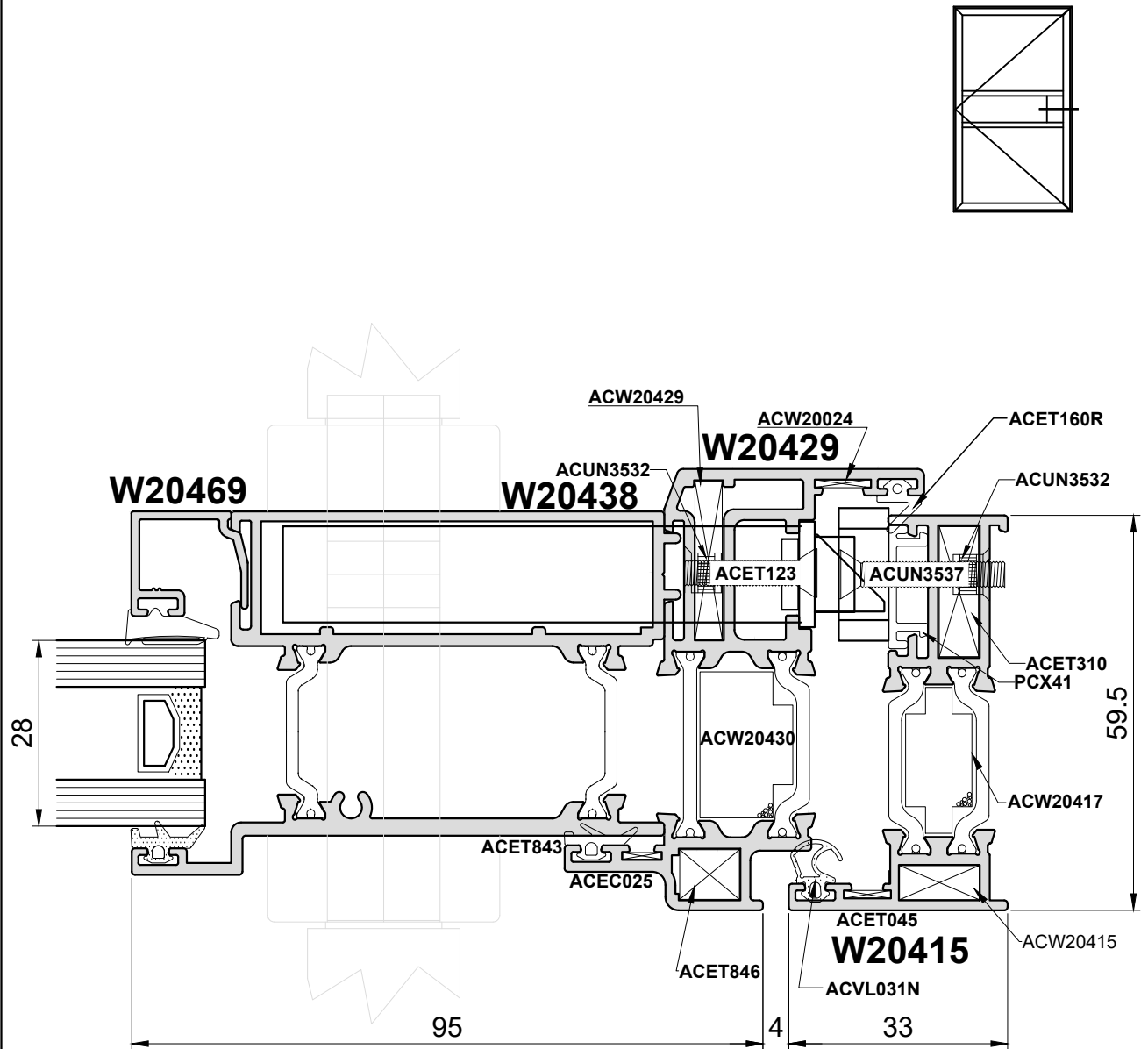
Do Not Scale From This Drawing

Detail 10



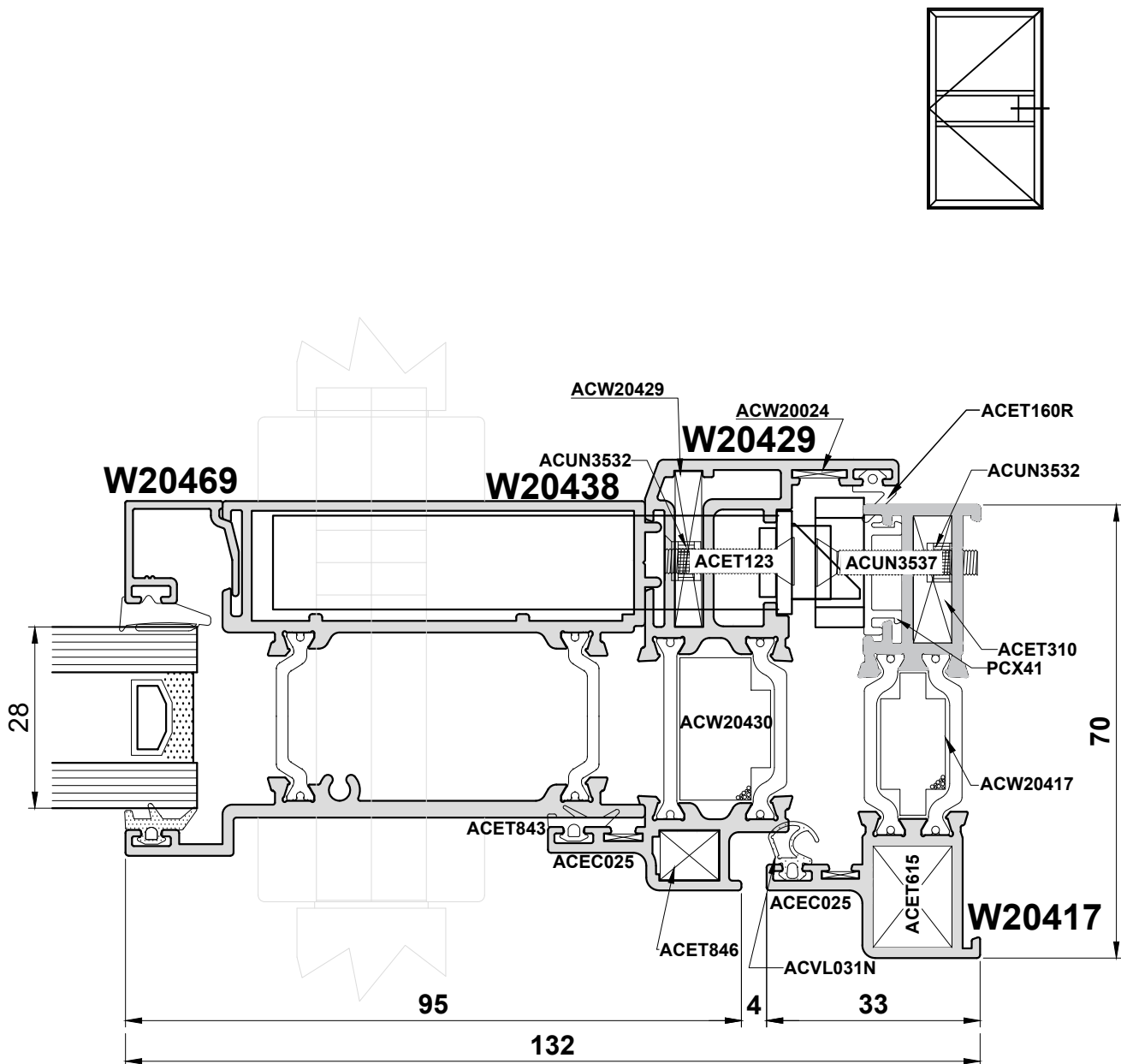
Do Not Scale From This Drawing

Detail 11A



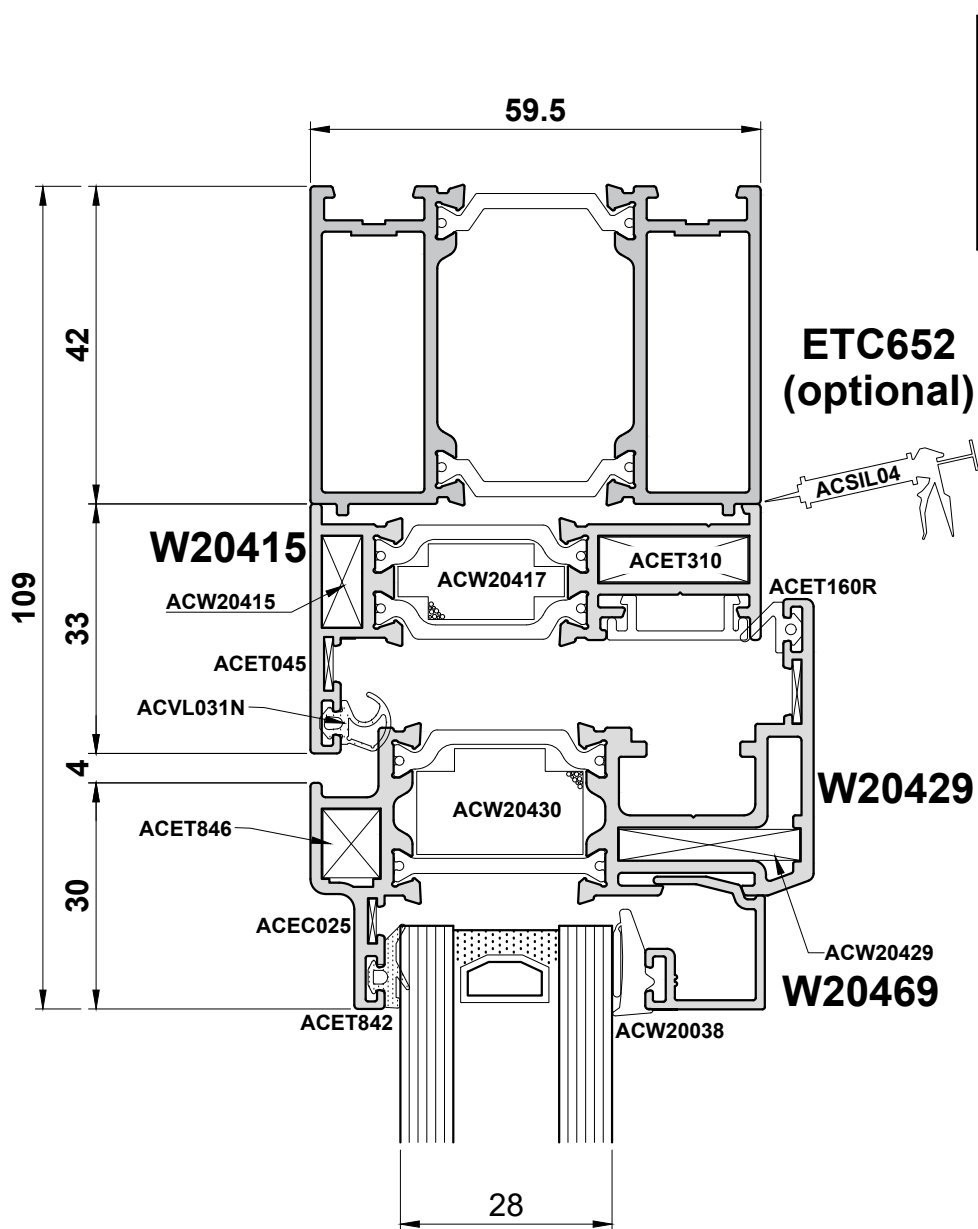
Do Not Scale From This Drawing

Detail 11B



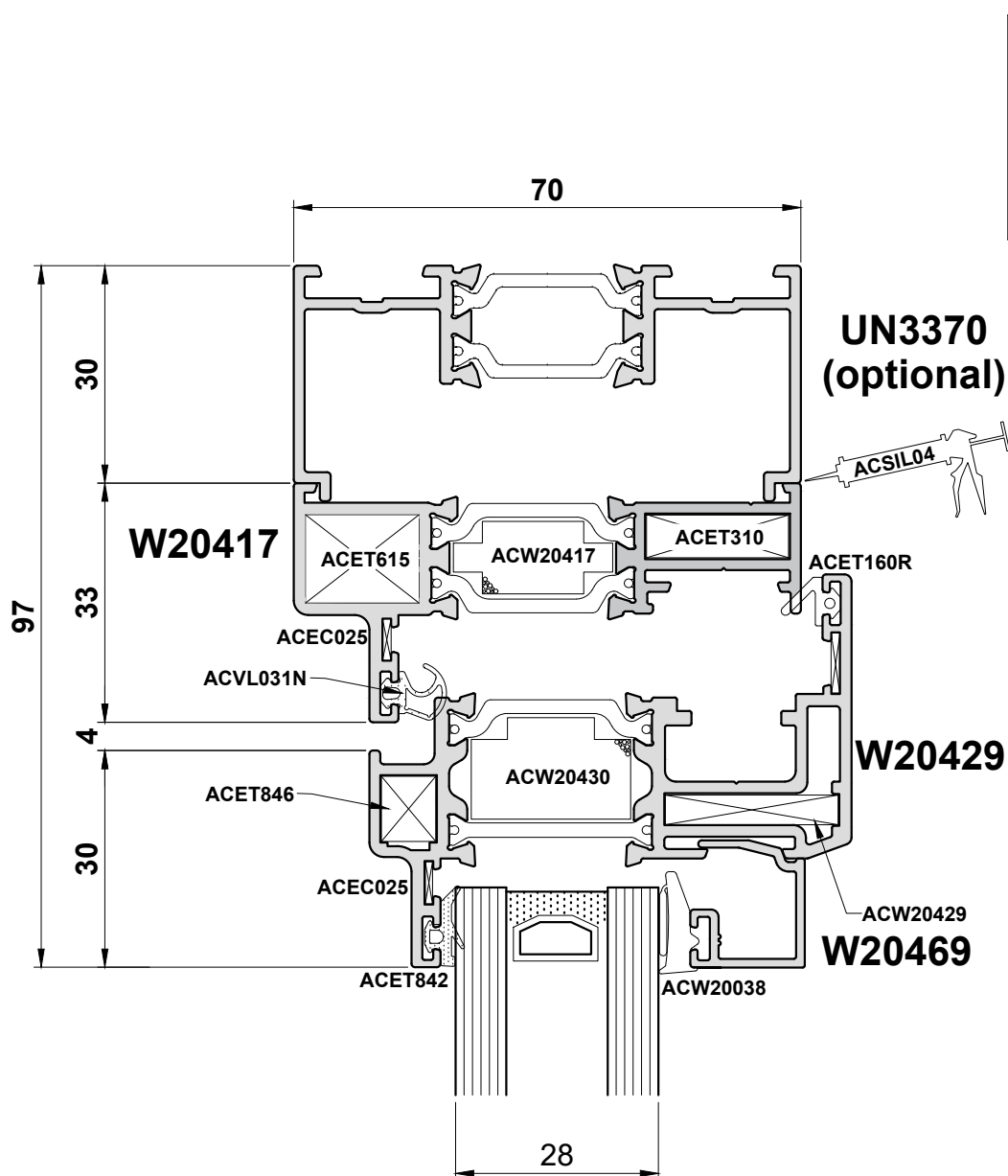
Do Not Scale From This Drawing

Detail 12A



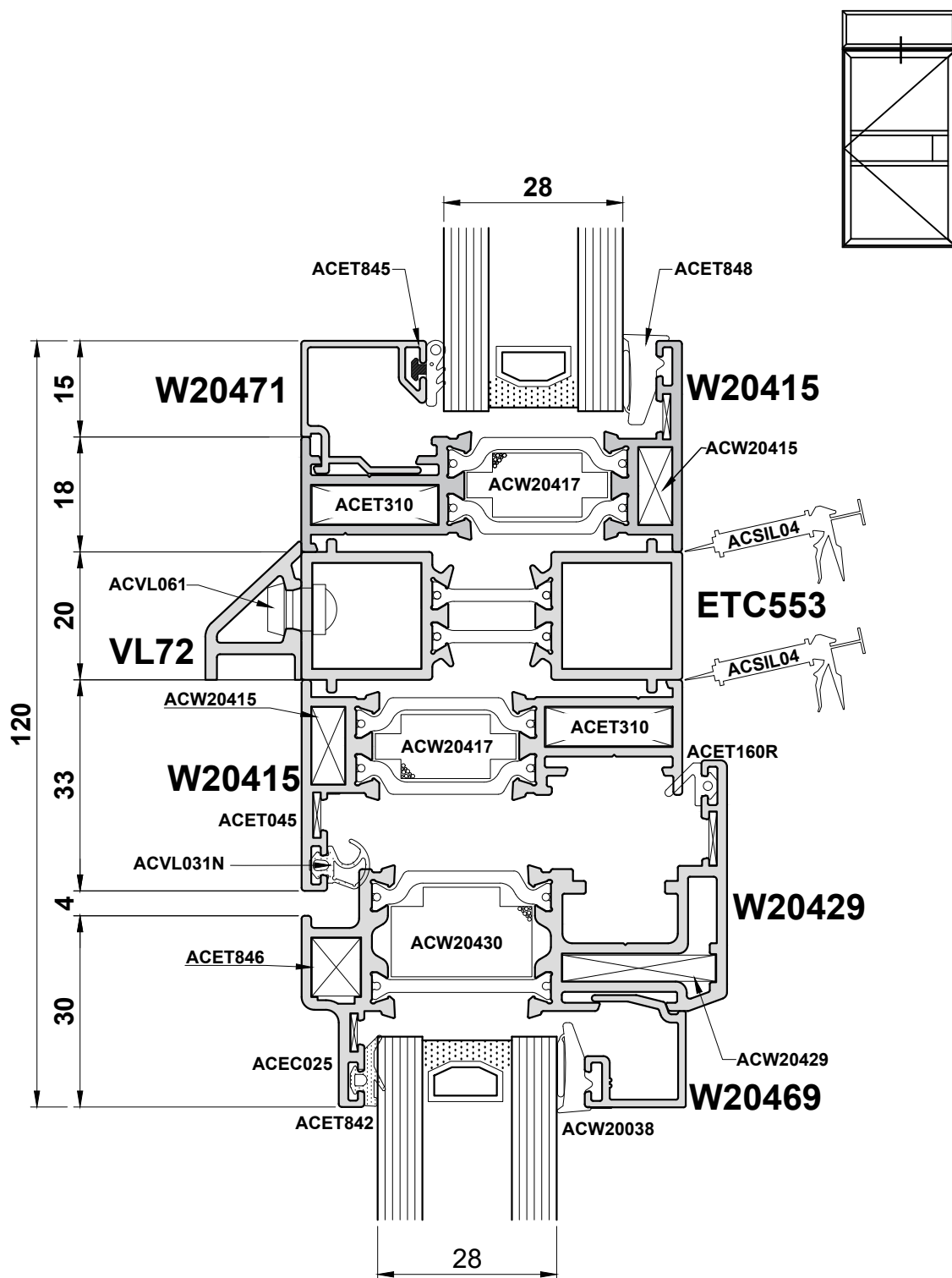
Do Not Scale From This Drawing

Detail 12B



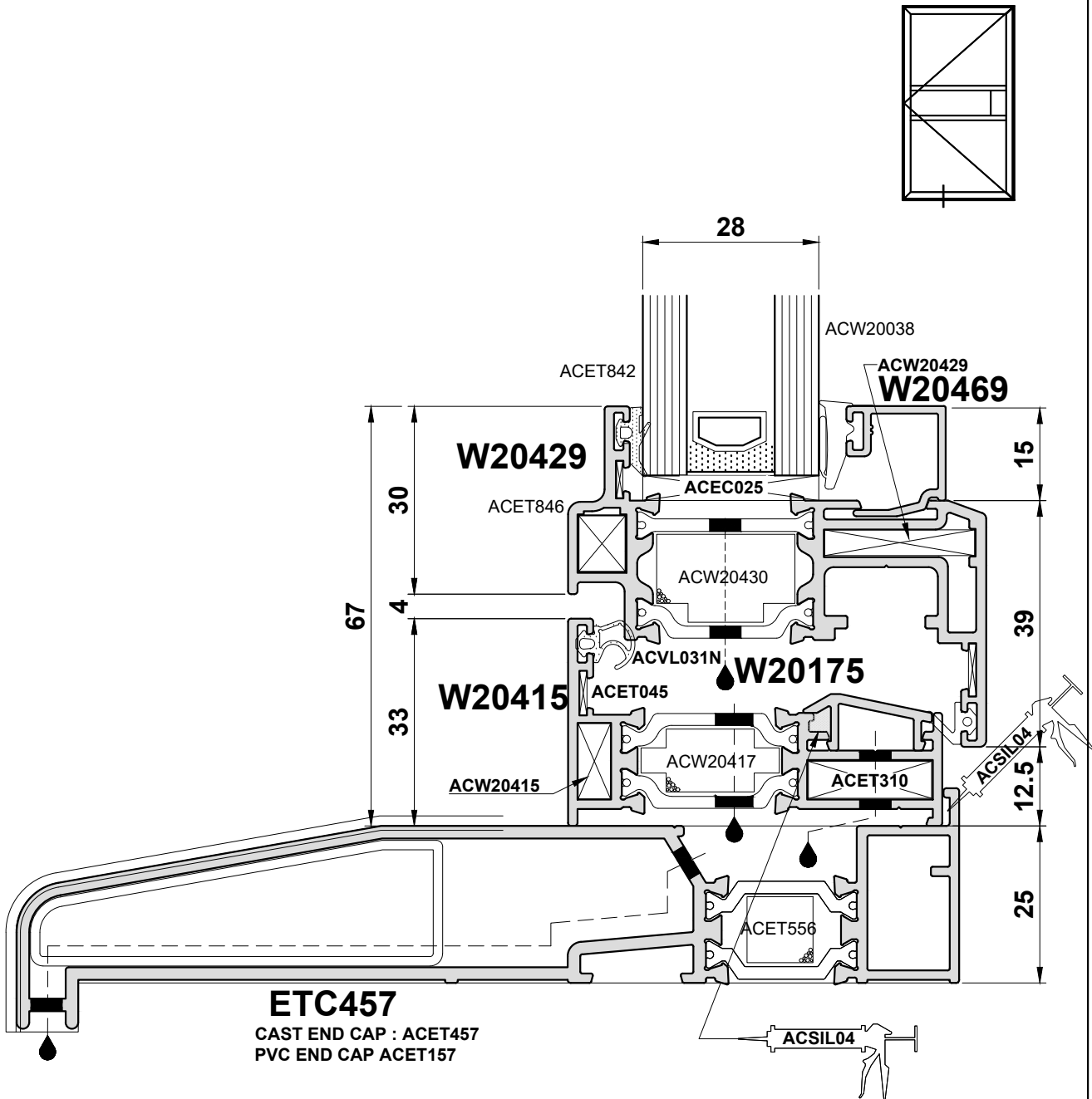
Do Not Scale From This Drawing

Detail 13



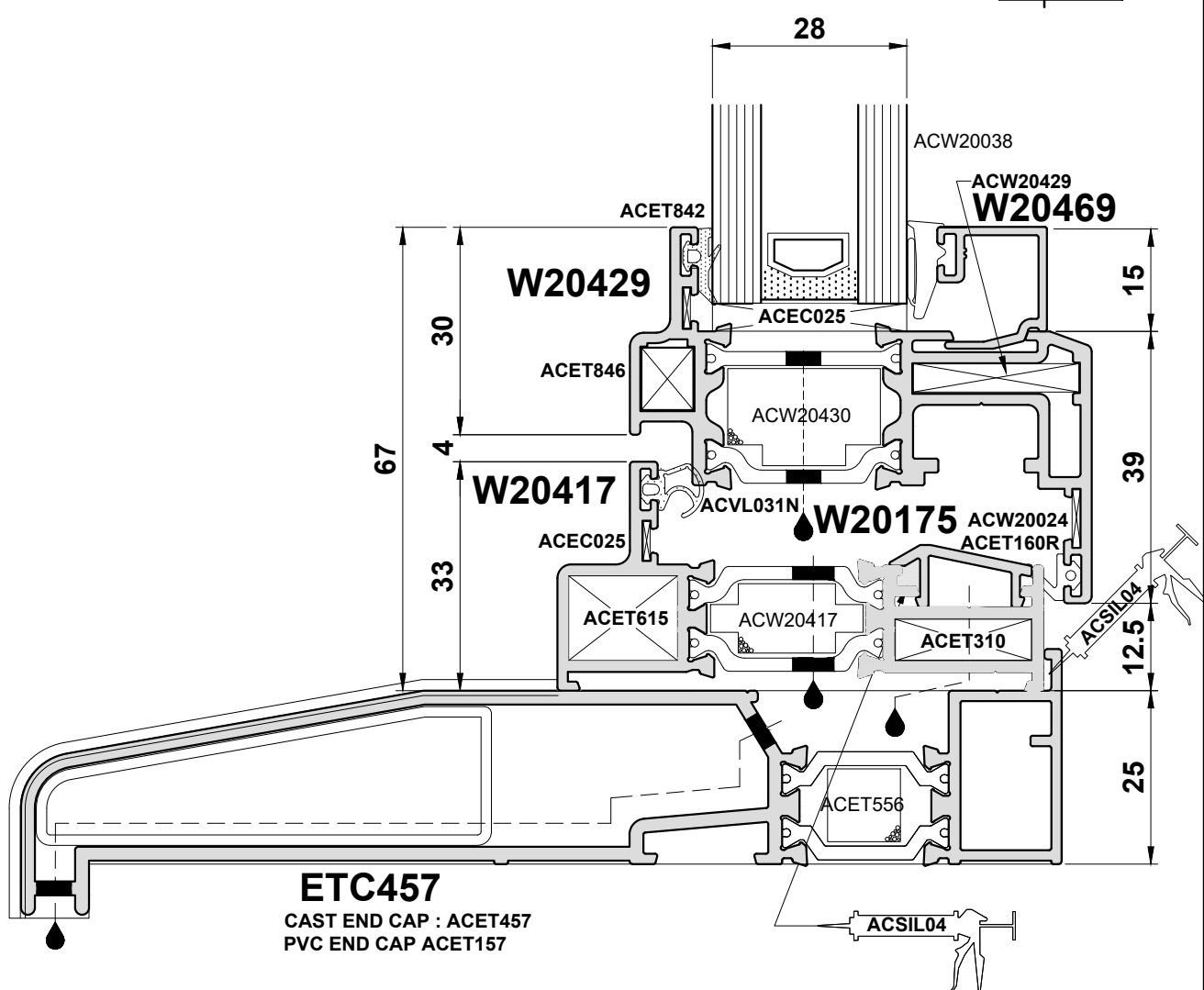
Do Not Scale From This Drawing

Detail 14A



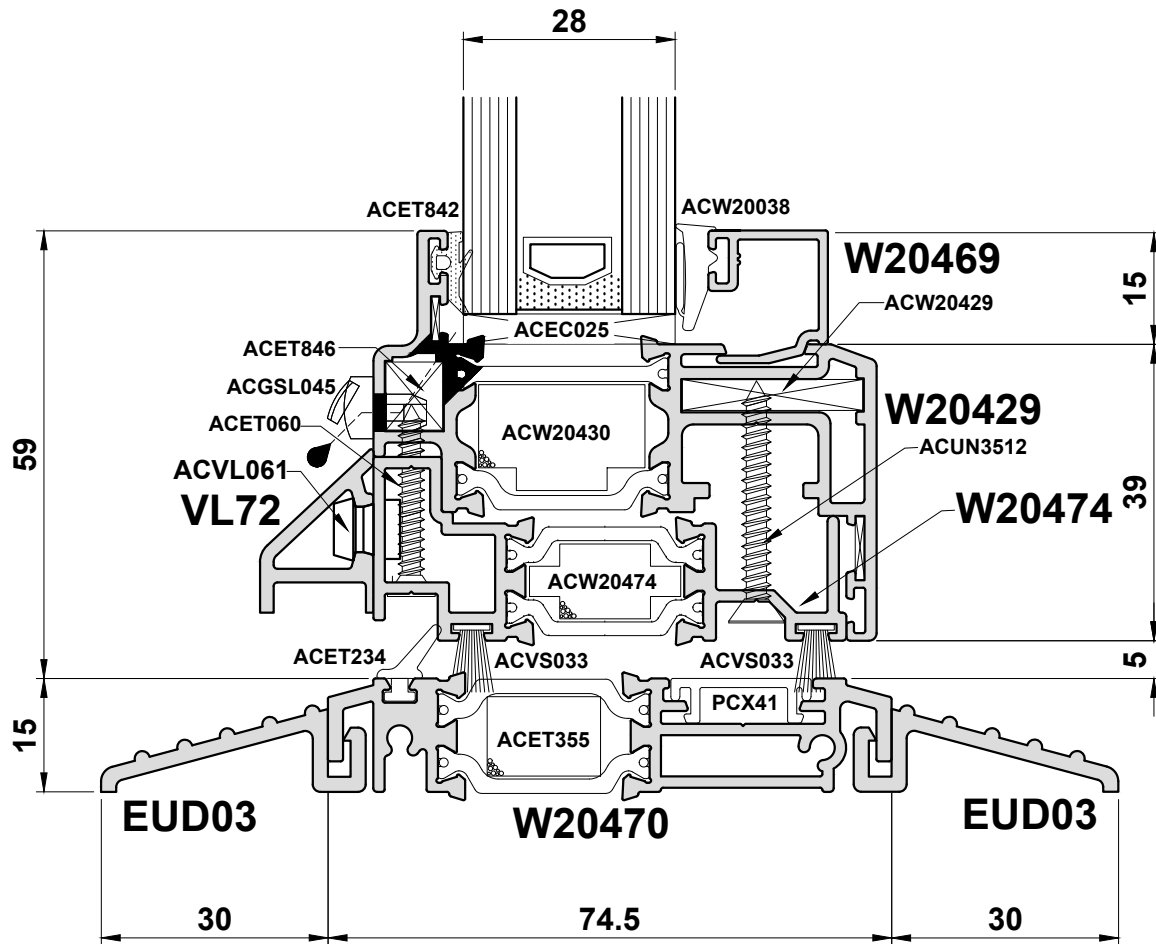
Do Not Scale From This Drawing

The diagram shows a large square. Inside it, a smaller square is formed by a horizontal line and a vertical line. The horizontal line is at the top, and the vertical line is on the right. This division creates a smaller square in the top-right corner and a larger rectangle in the bottom-left. A diagonal line runs from the top-left corner of the large square to the bottom-right corner. Another diagonal line runs from the top-right corner of the large square to the bottom-left corner. These two diagonals intersect at a point. The intersection point is located within the smaller square formed by the horizontal and vertical lines. The intersection point is also the center of the large square.



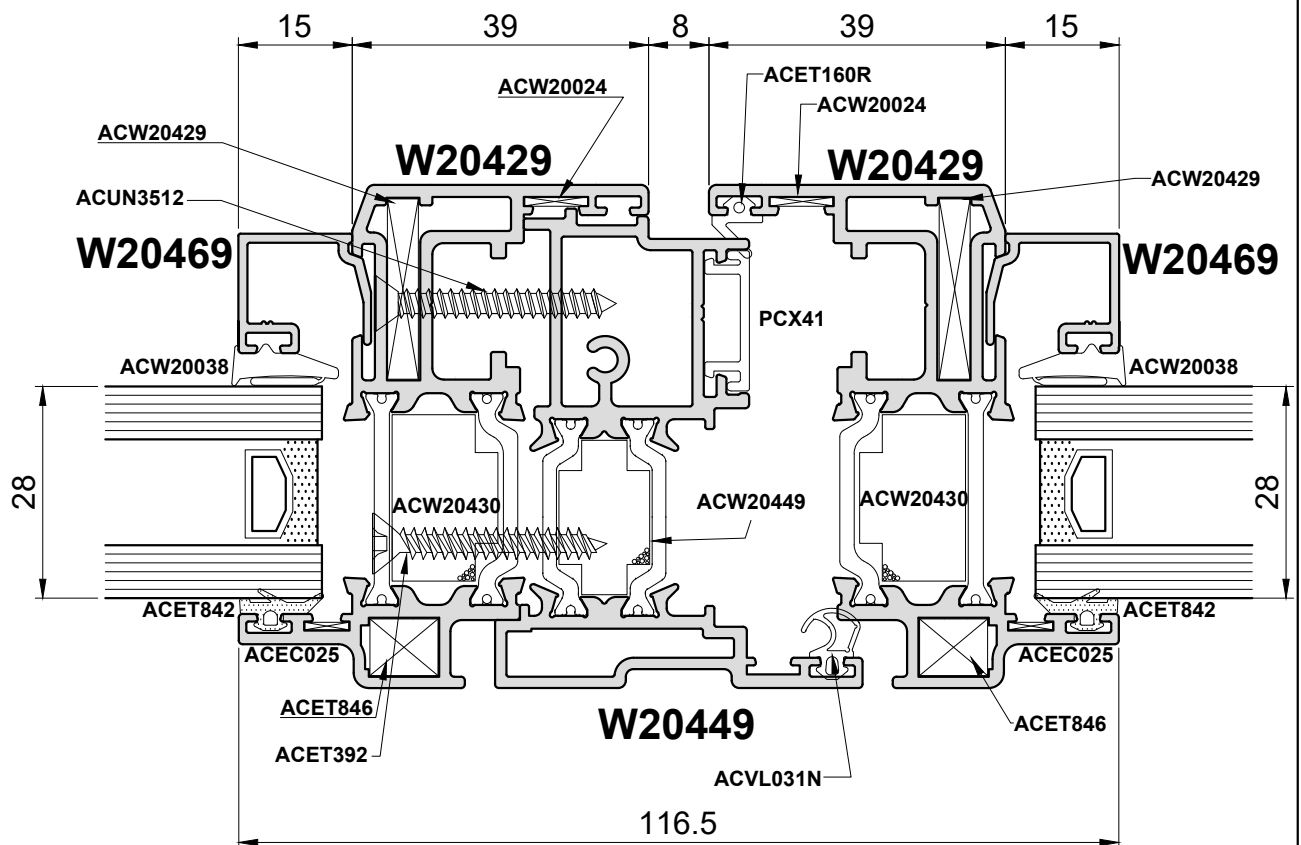
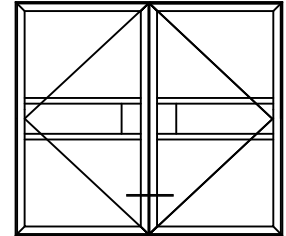
Do Not Scale From This Drawing

Detail 14C



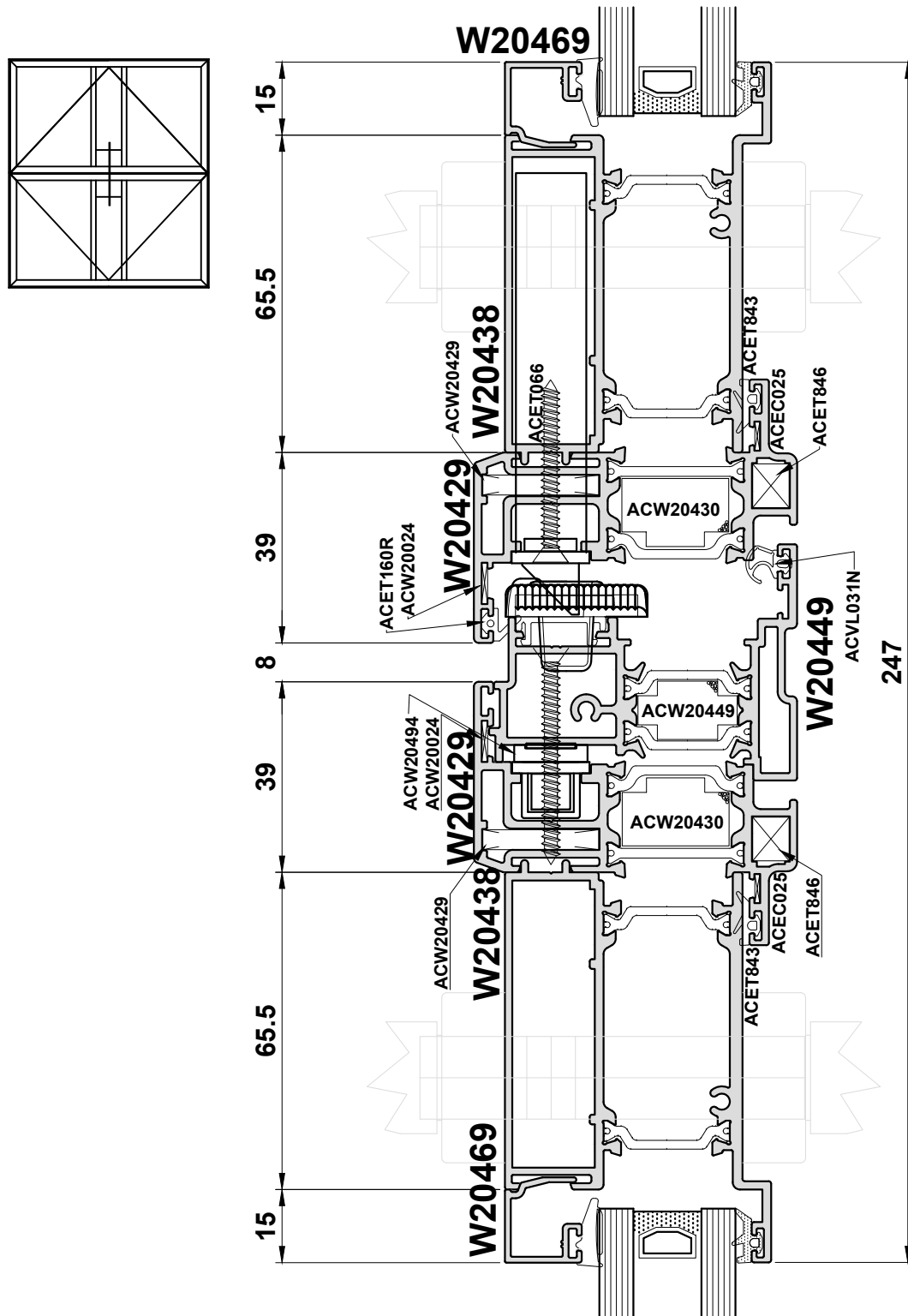
Do Not Scale From This Drawing

Detail 15



Do Not Scale From This Drawing

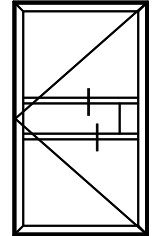
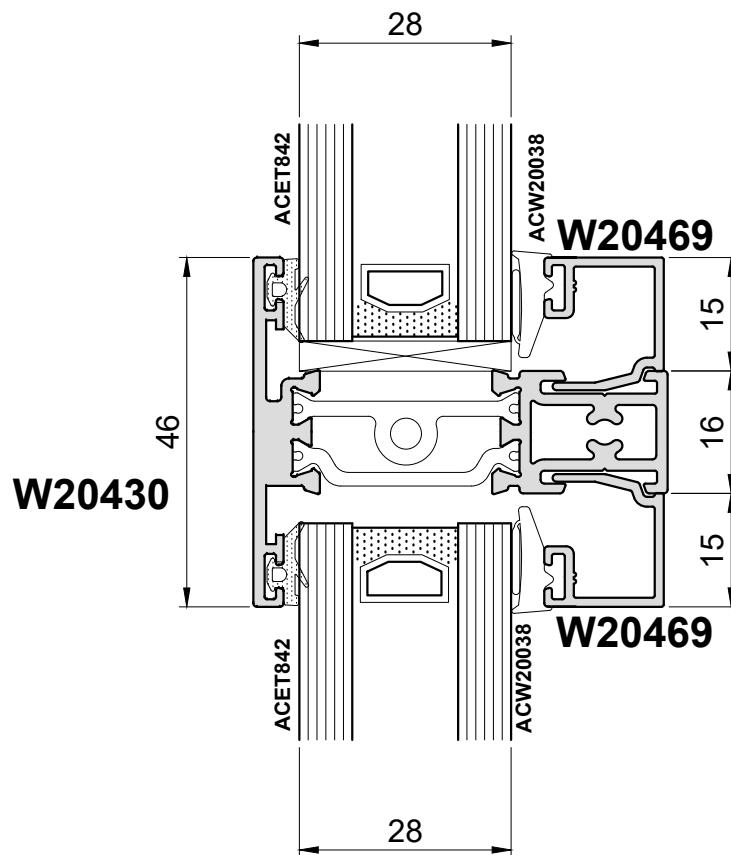
Detail 16



NOT TO SCALE

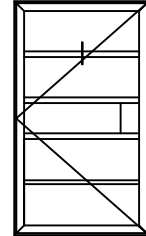
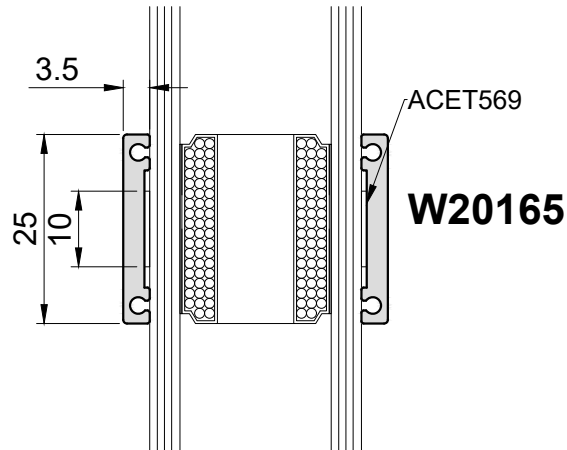
Do Not Scale From This Drawing

Detail 17

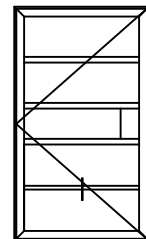
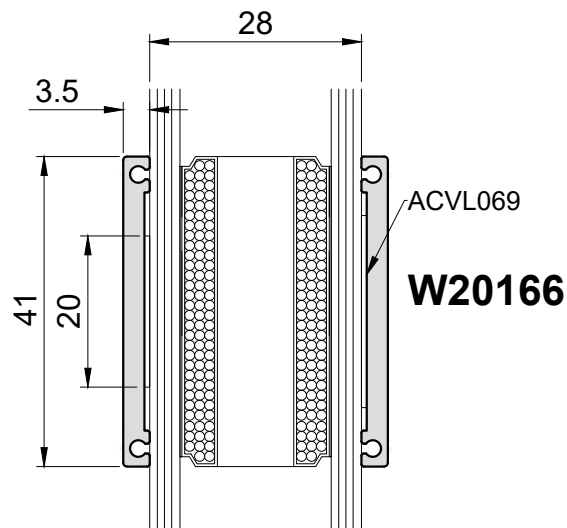


Do Not Scale From This Drawing

Detail 18 A



Detail 18 B



Do Not Scale From This Drawing

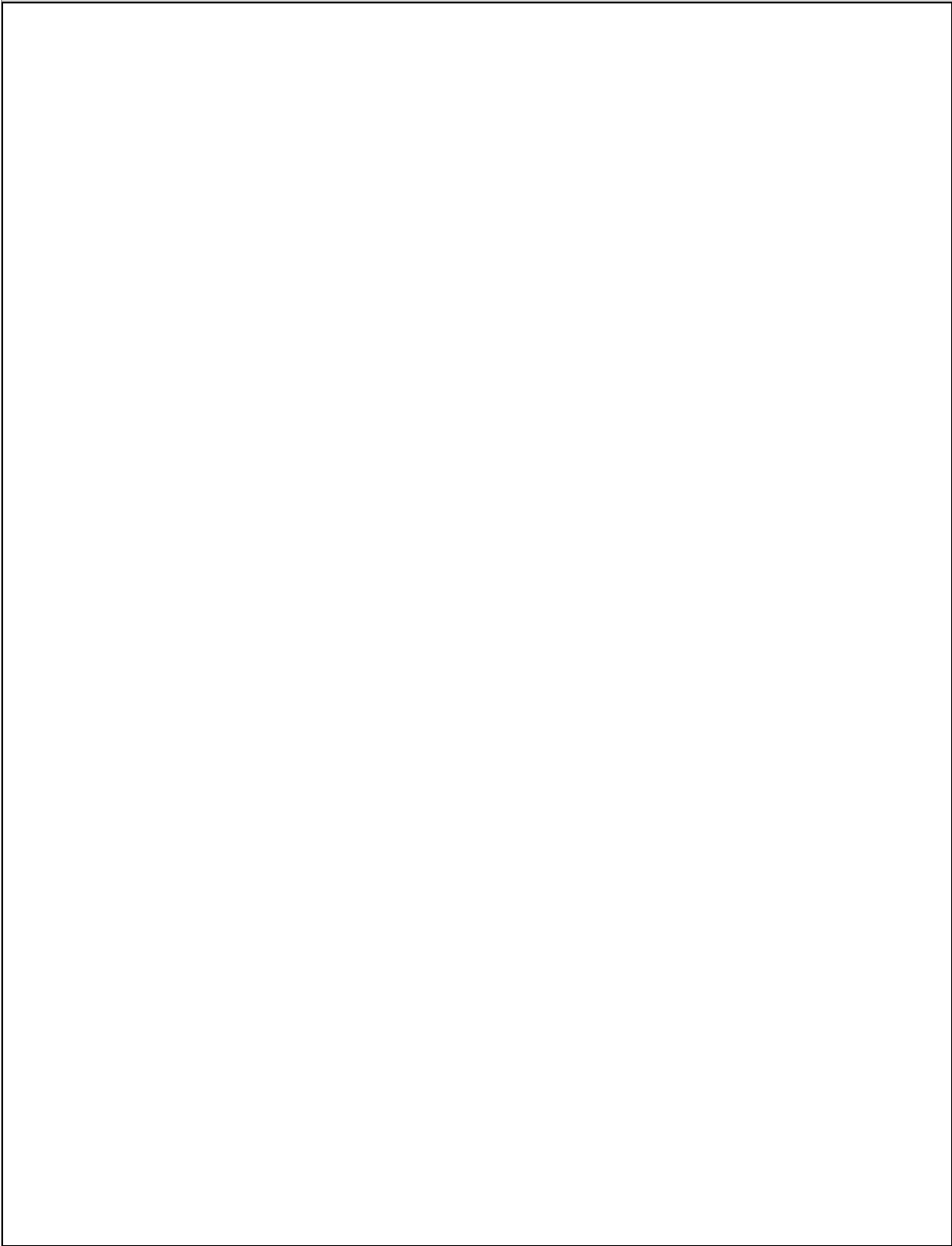
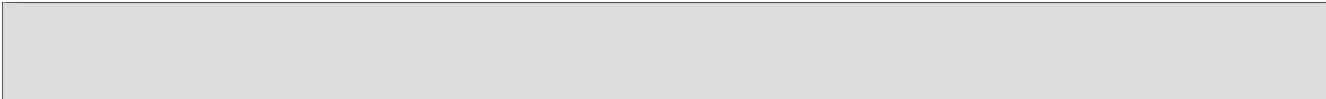
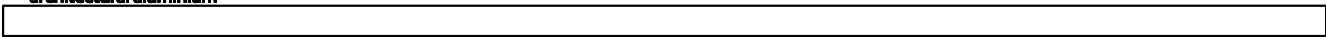
Section D

Statics

Open Out & In

General Size Limitations are shown on Page A04.

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



Section E



Construction Drawings - Open Out

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Open Out Door Threshold Drainage.....	E08
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Open Out Door Lock Preparation (PA S24 Option).....	E12
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Open Out Double Door Frame All Around (PA S24 Option).....	E15
Open Out Double Door Low Threshold (PA S24 Option).....	E16
Open Out Low Threshold Detail.....	E17
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PAS24 Open Out Double Door Full Requirements.....	E22

Section E



Construction Drawings - Open In	
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Open In Door Lock Preparation (PA S24 Option).....	E33
Double Door Lock Overview.....	E34
Open In Lock Selection With Shootbolts (PA S24 Option).....	E35
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Open In Double Low Threshold Detail	E38
Open In Door Hinge Details	E39
Open In Door Hinge Details (PA S24 Option).....	E40
Open In 90 Restrictor Installation.....	E41
PAS24 Open In Single Door Full Requirements	E42
PAS24 Open IN Double Door Full Requirements	E43
Glazing Chart	E46

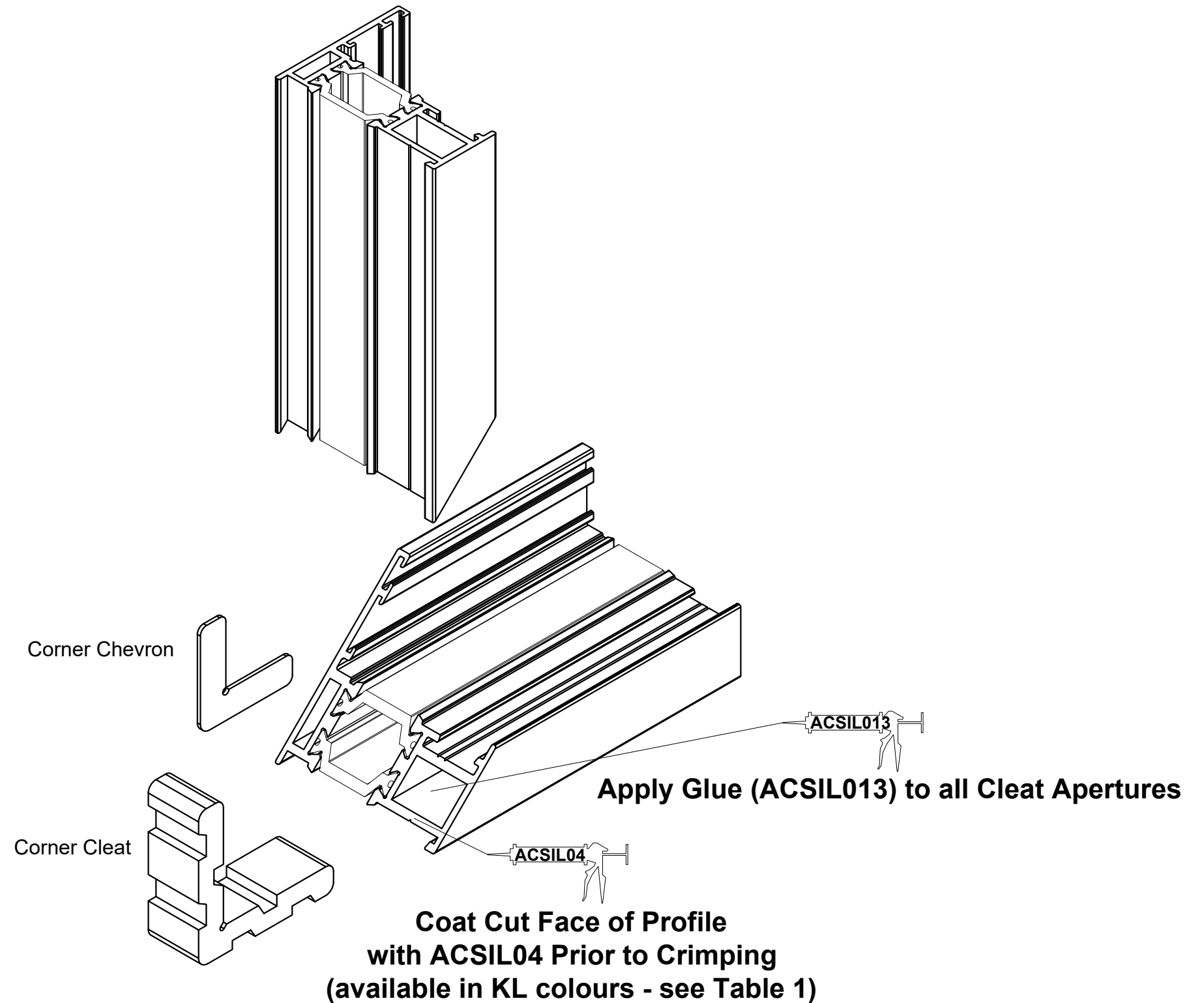
Corner Joint Details

Notes

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

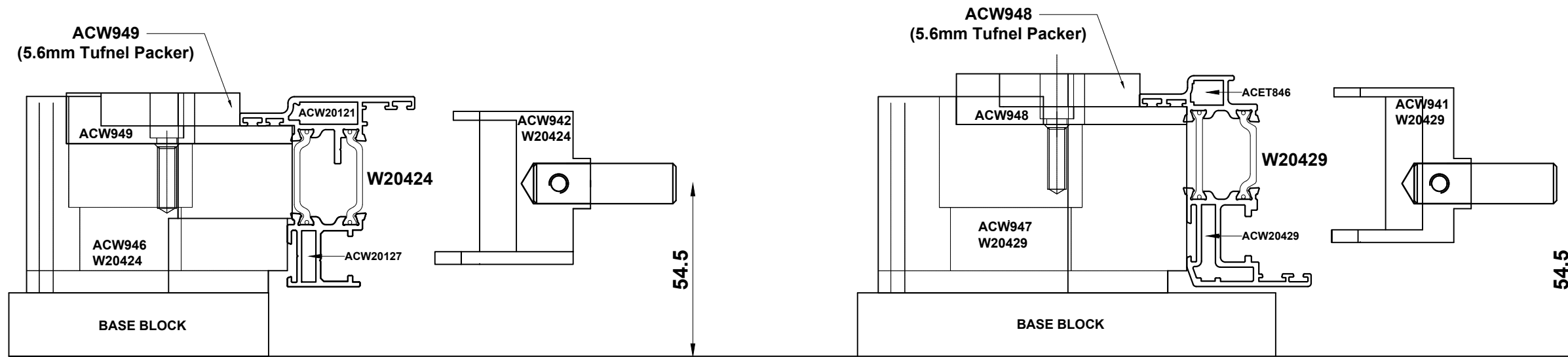
Table 1

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

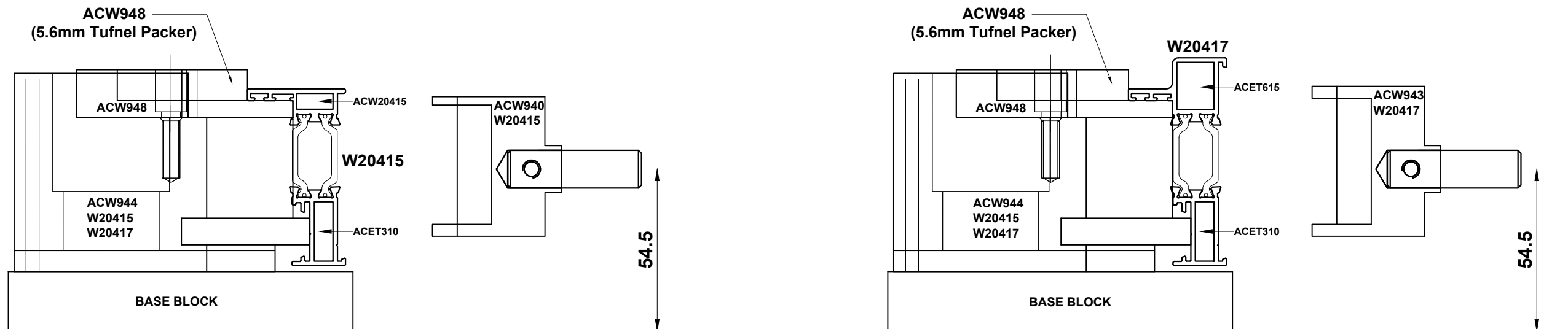


Do Not Scale From This Drawing

Corner Crimping

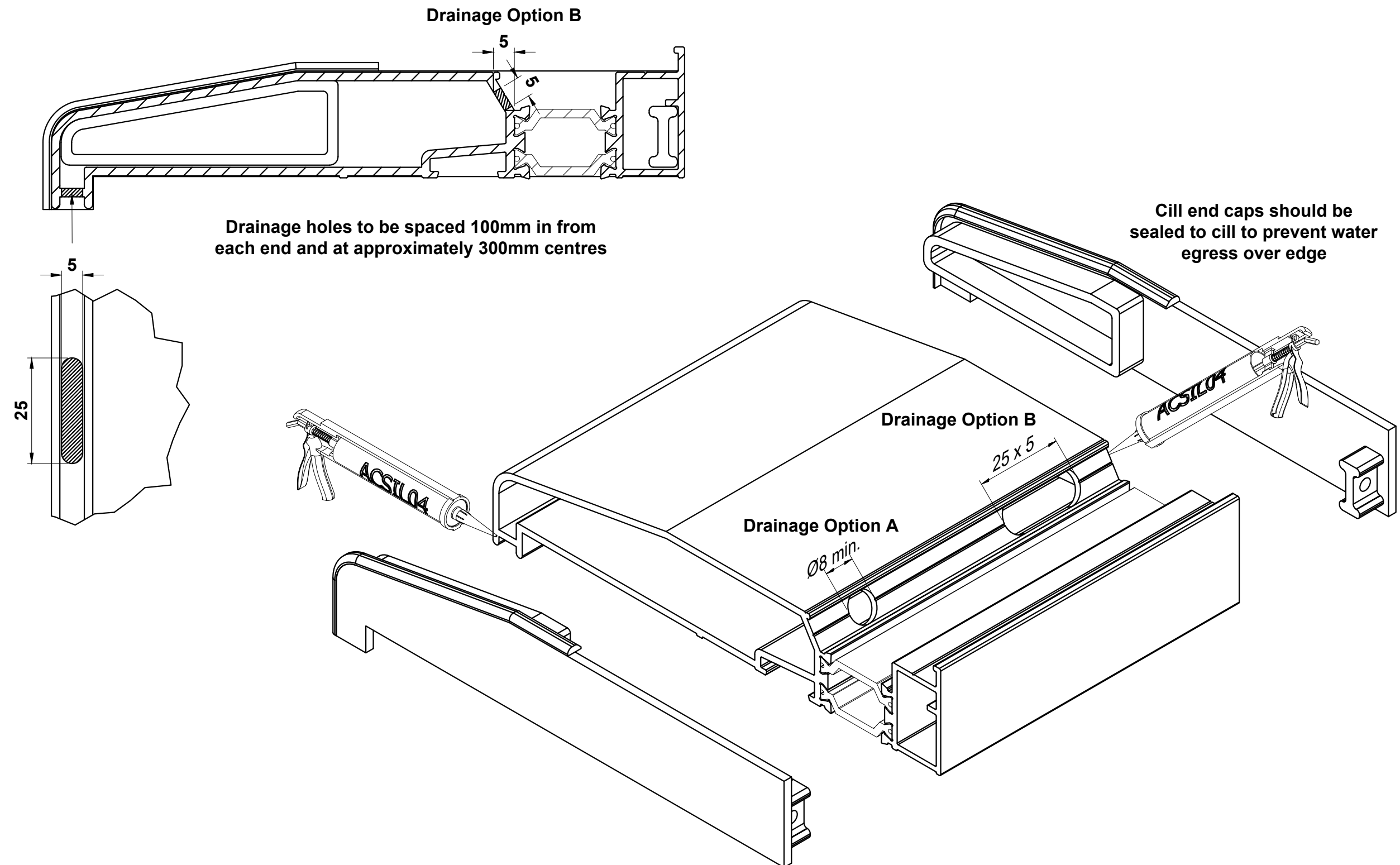


Manual Crimper = WUT024HSZA



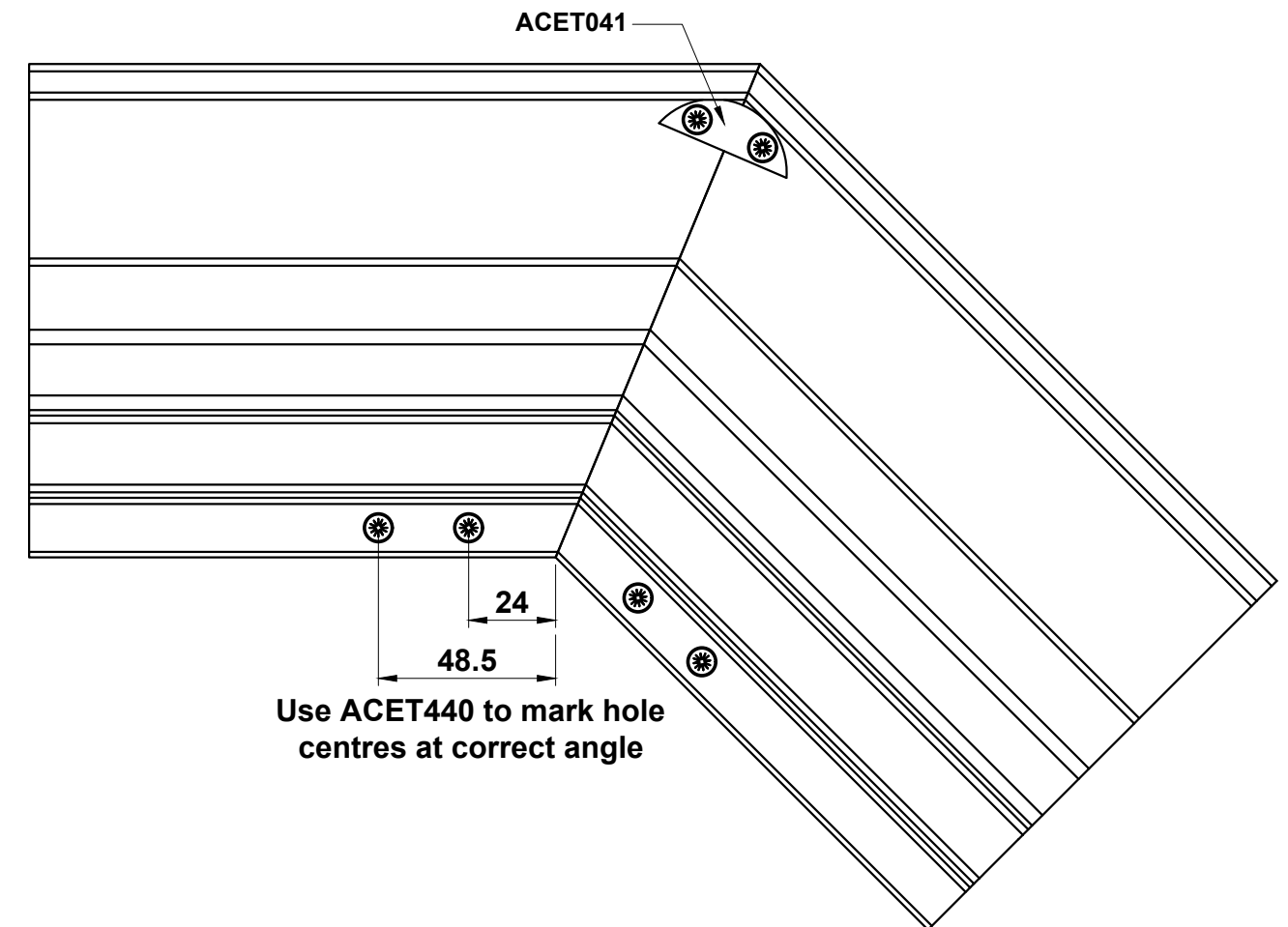
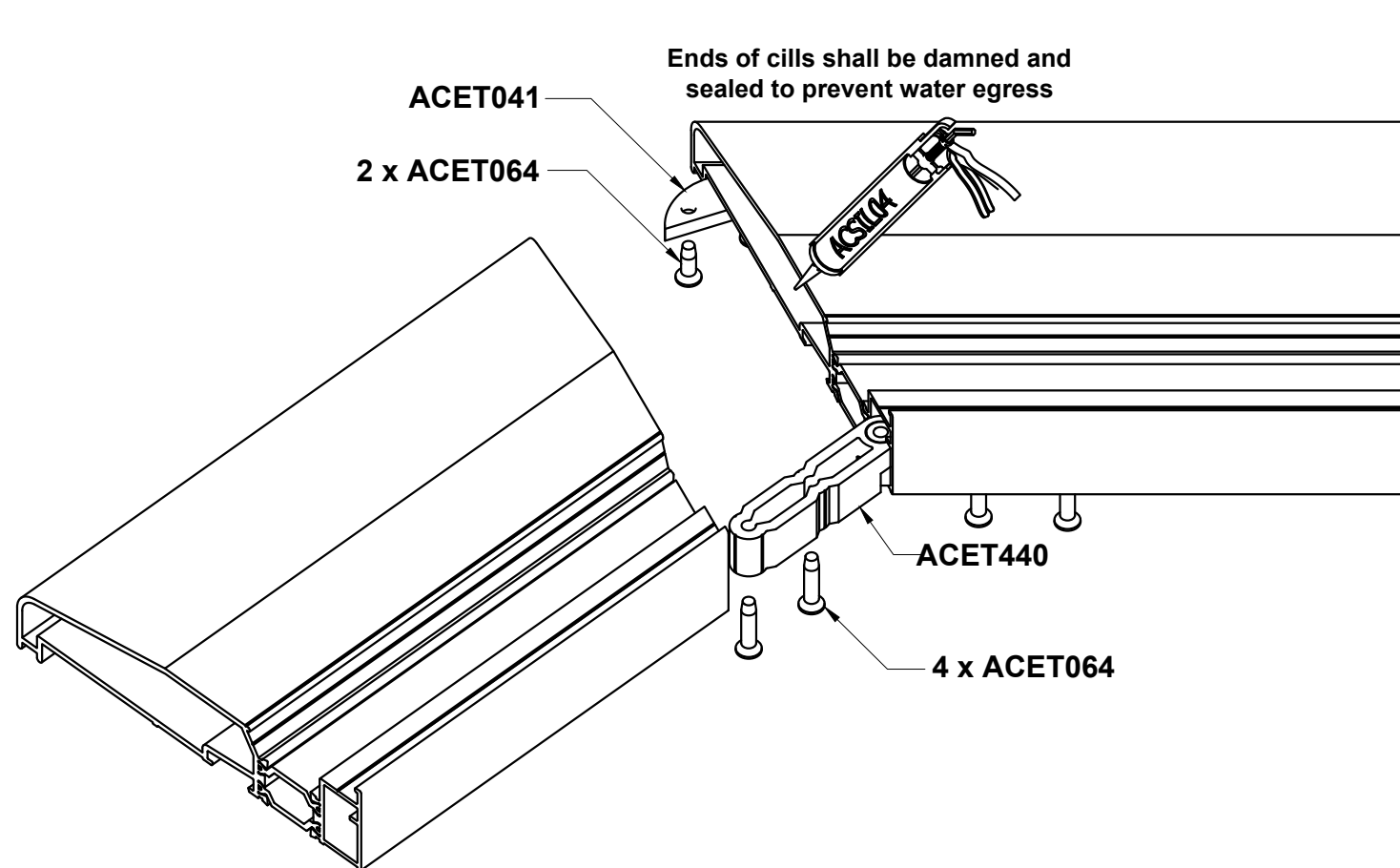
Do Not Scale From This Drawing

Sub Cill Drainage



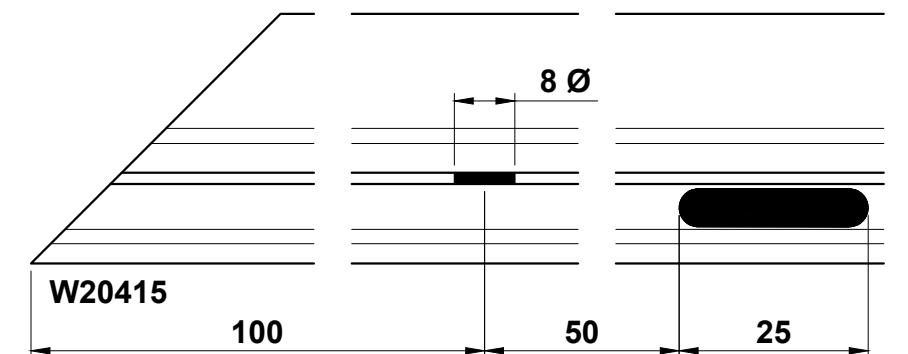
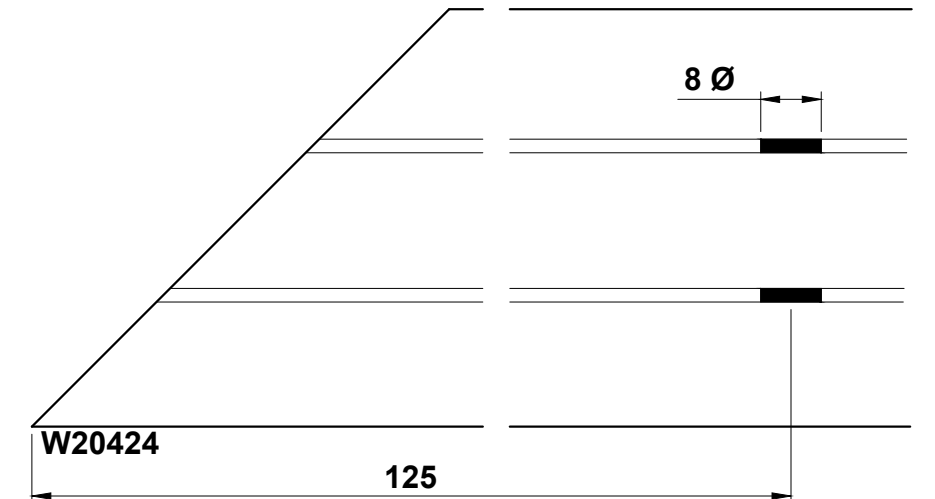
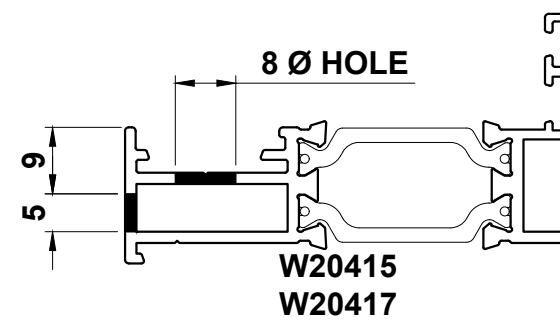
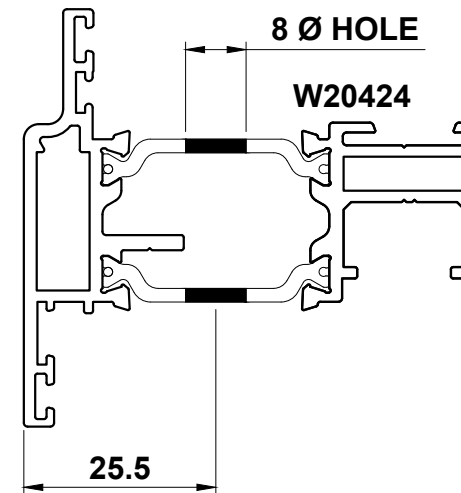
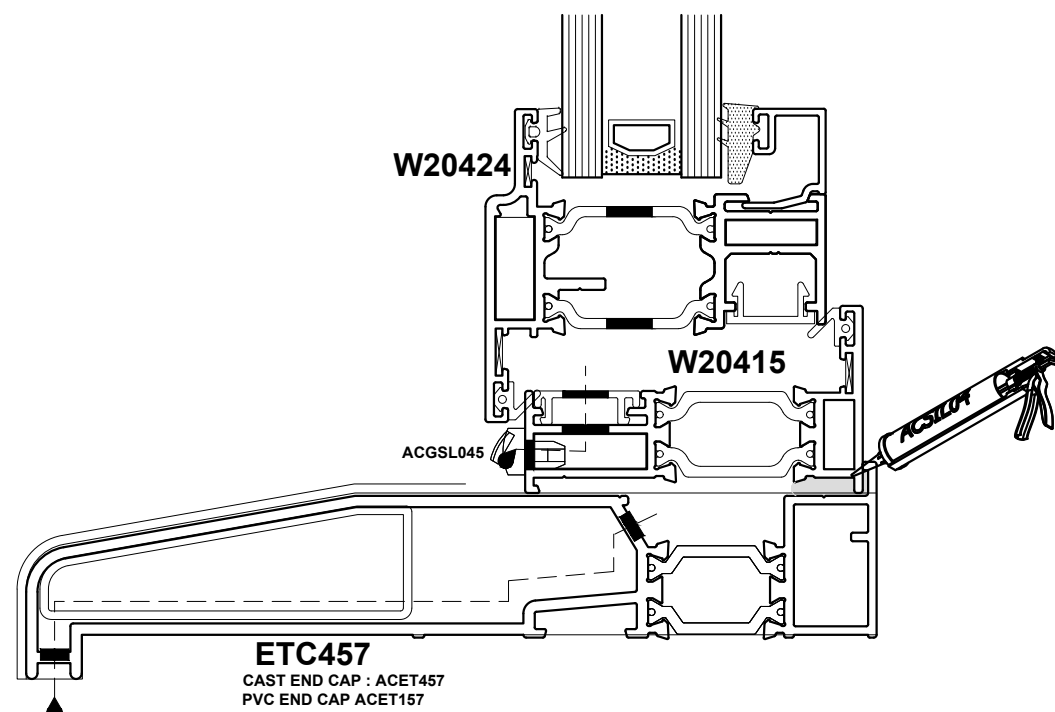
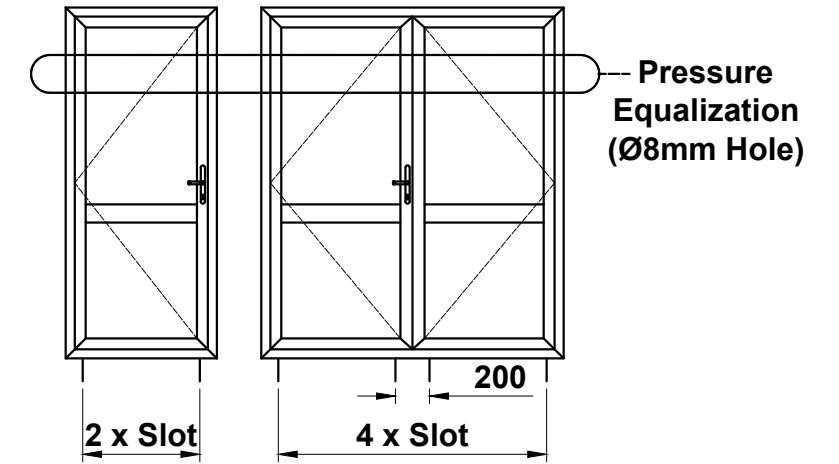
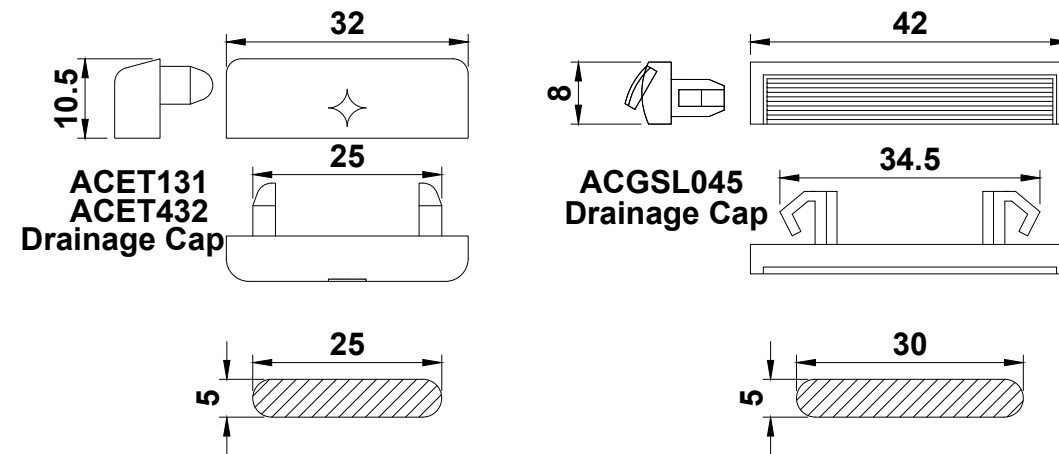
Do Not Scale From This Drawing

Angled Sub Cill



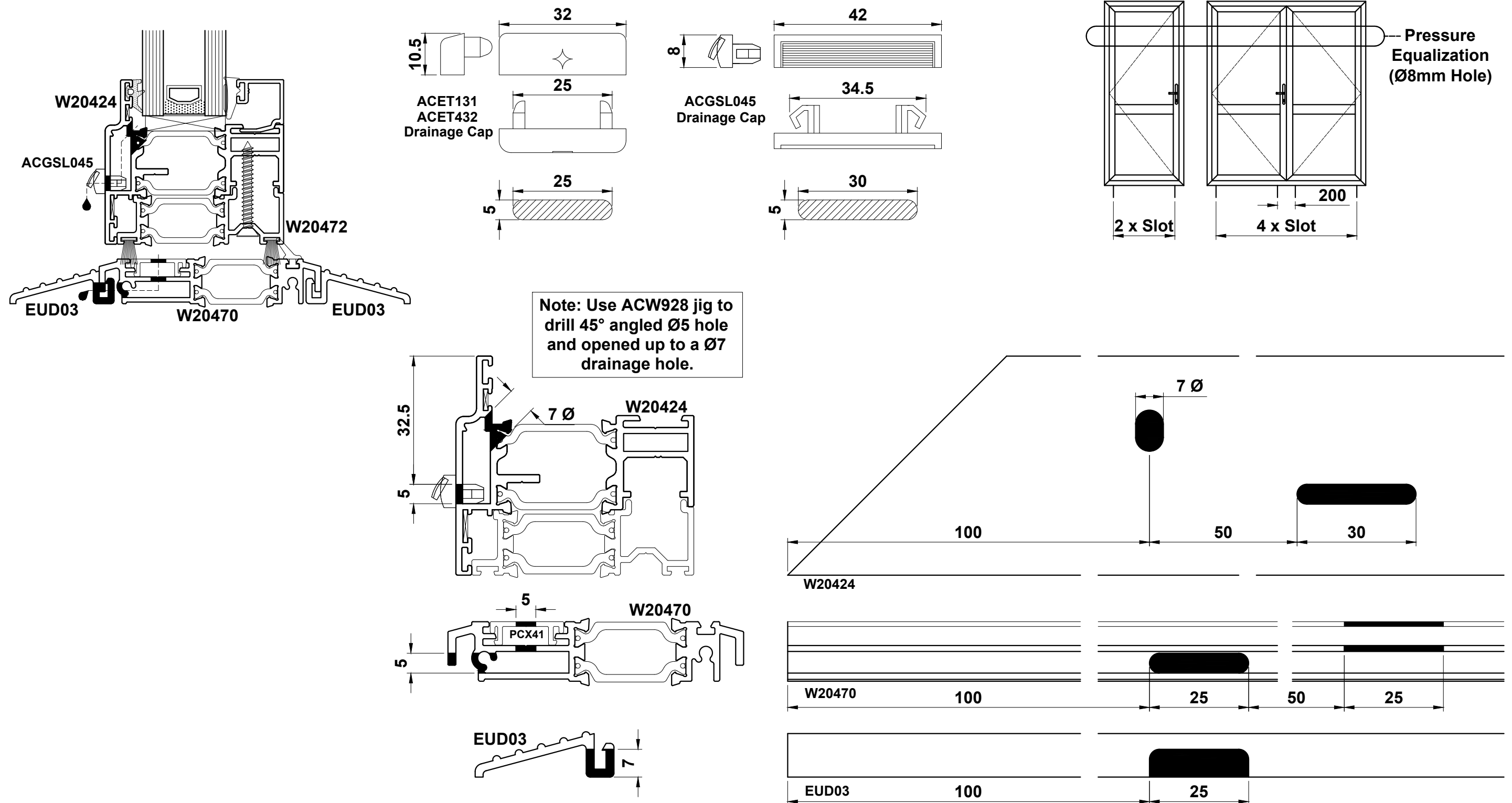
Do Not Scale From This Drawing

Open Out Door Cill Drainage



Do Not Scale From This Drawing

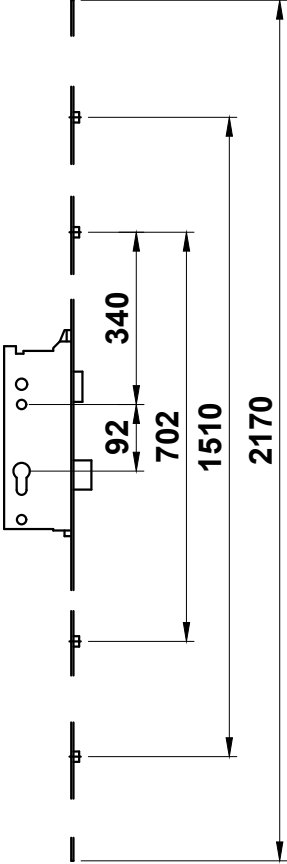
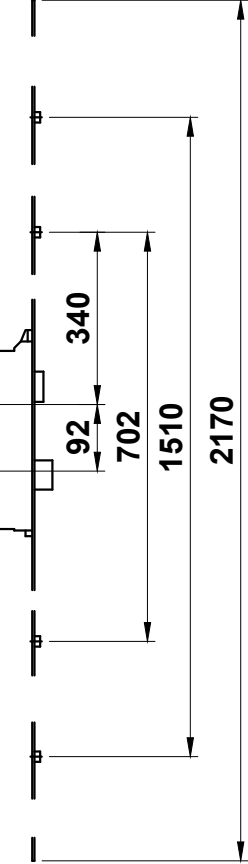
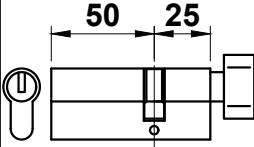
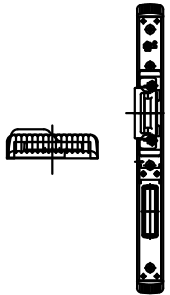
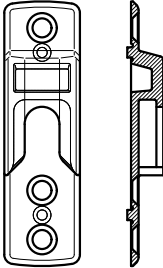
Open Out Door Threshold Drainage



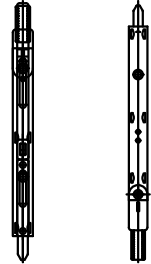
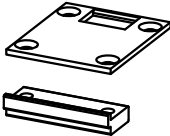
Do Not Scale From This Drawing

Single Door Lock Overview

W20424 Sash (PAS24 Lock)

Lock	Accessories	Quantity
	ACW20465 	1
	ACCY5025NKTTS3 	1
	ACW20066 L/R 	1
	ACW20367 	4

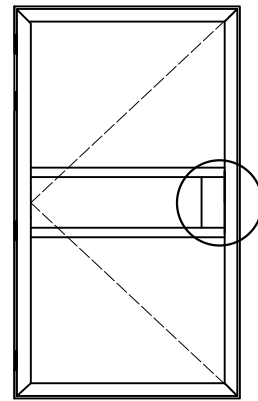
Additional hardware for PAS24

ACDV737/ACDV738 	2 / 2
ACW20472 	2

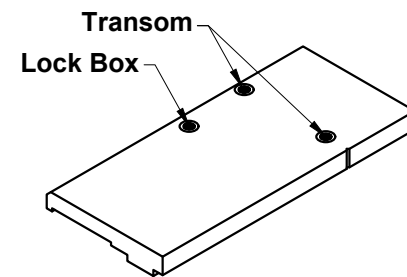
For PAS24 requirements,
please refer to page E21

Do Not Scale From This Drawing

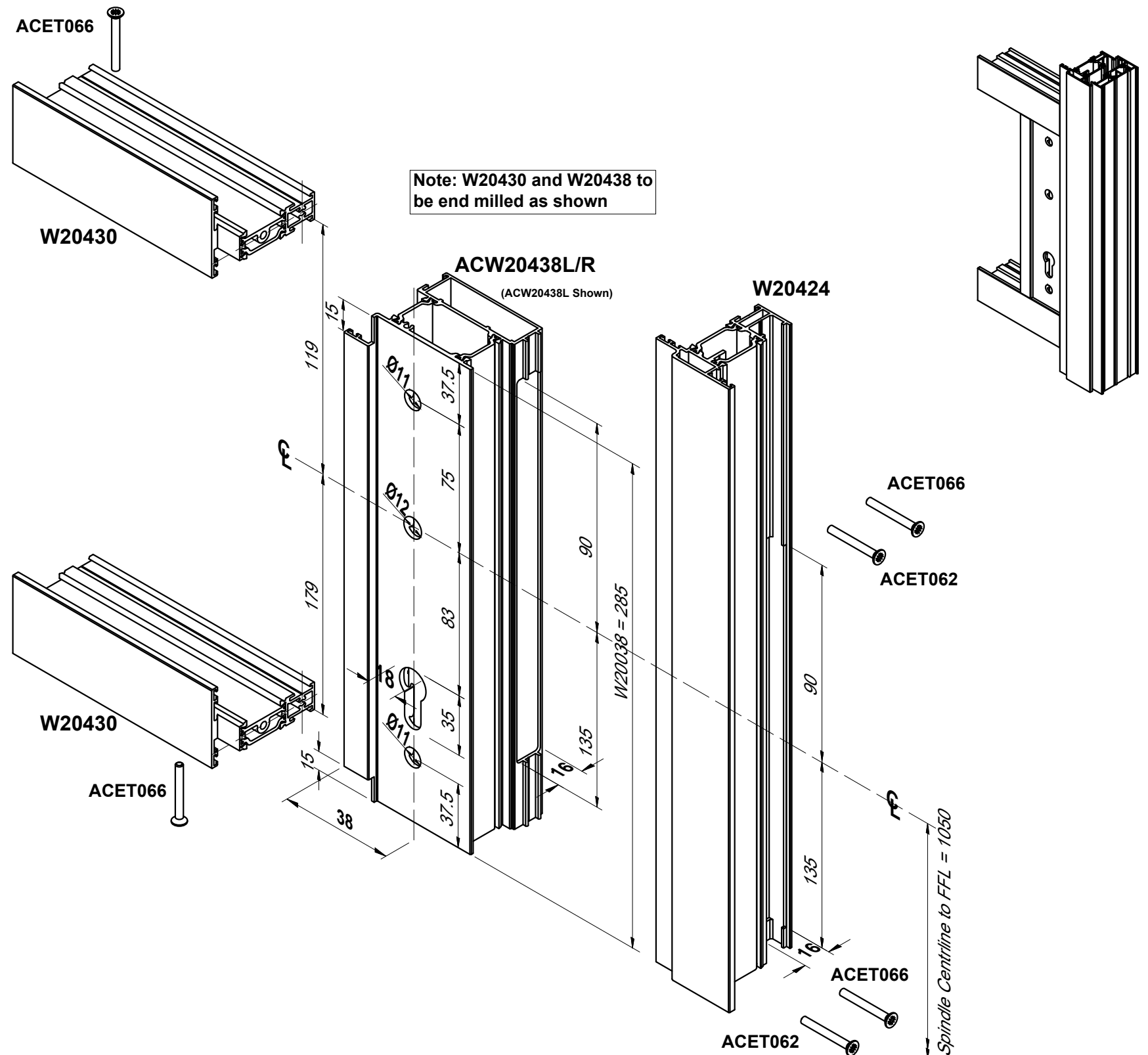
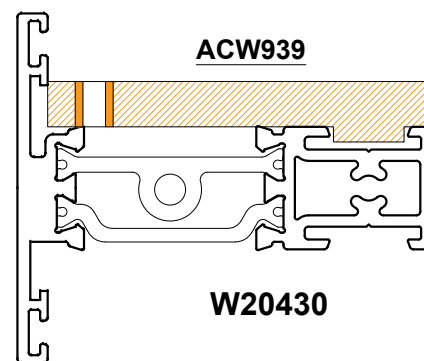
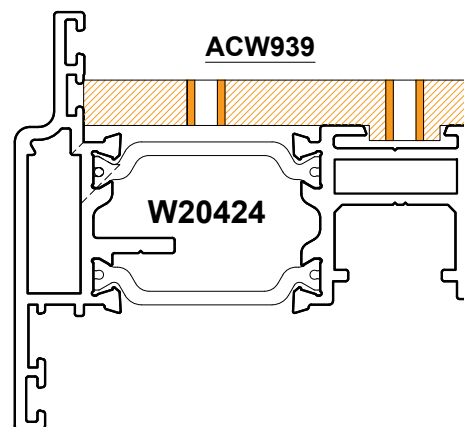
Open Out Door Lock Preparation



Drill Jig = ACW939
Jig **MUST** be clamped in
position before drilling



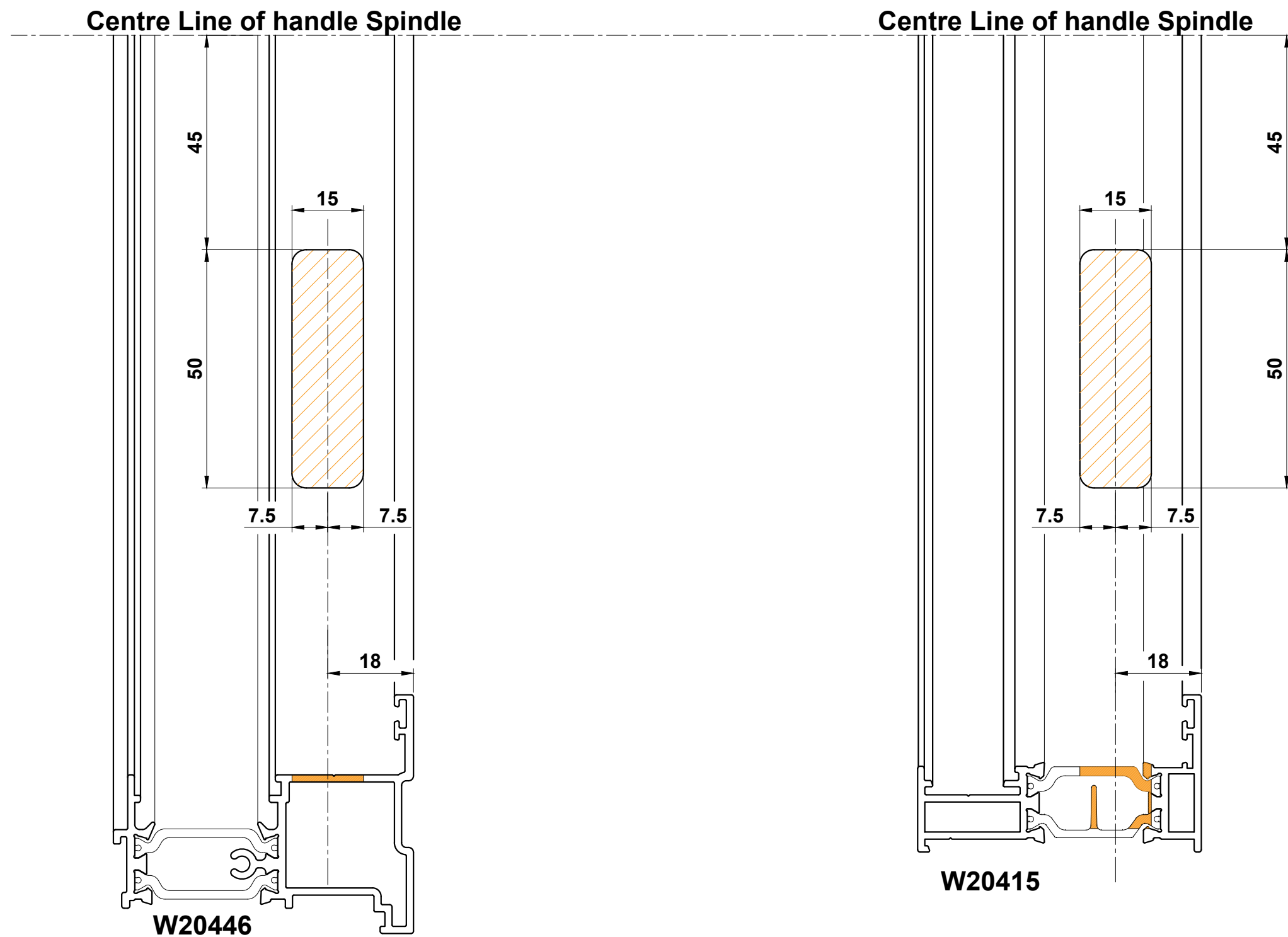
ACET066 and ACET062
screw to secure
transoms/mullions



Do Not Scale From This Drawing

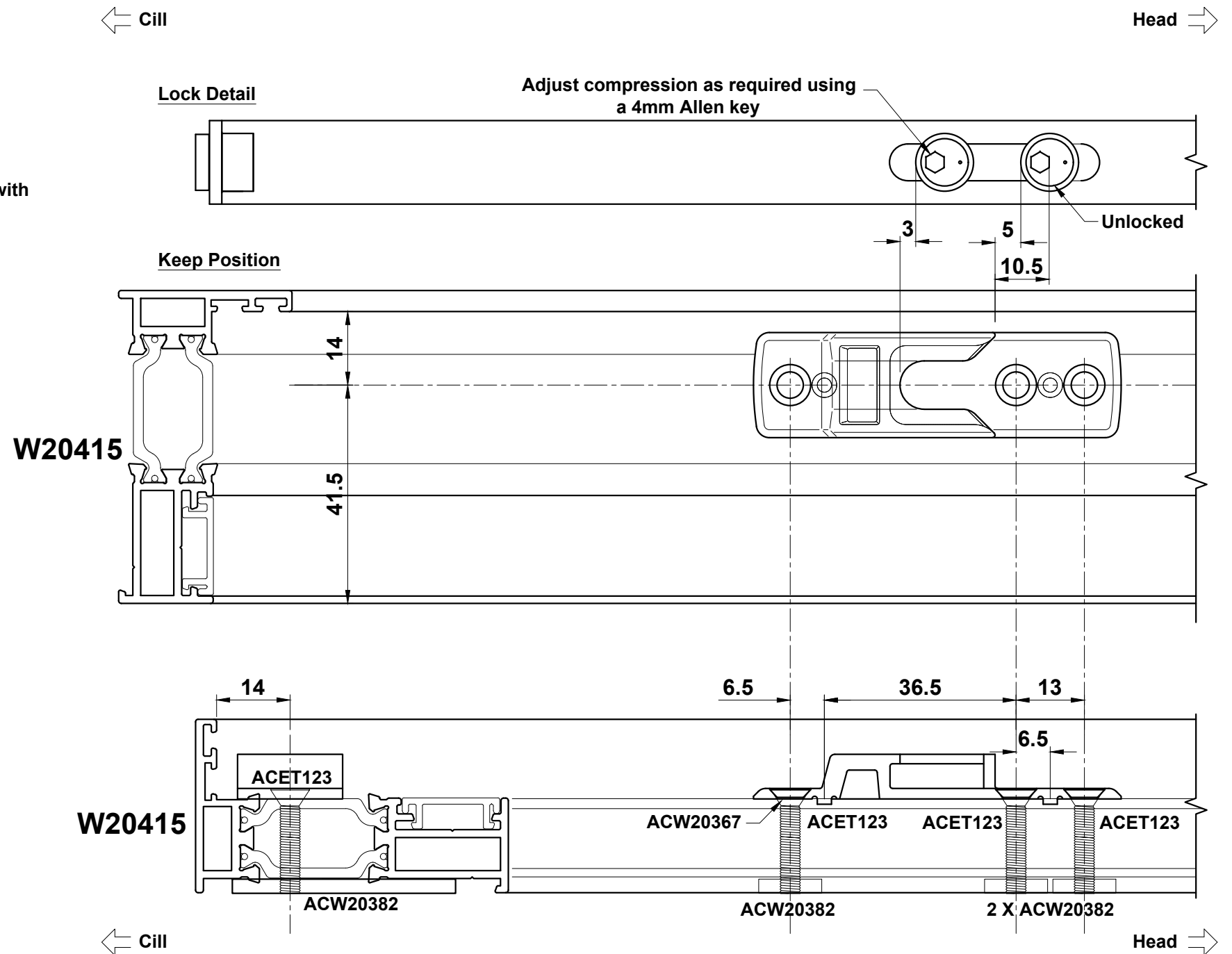
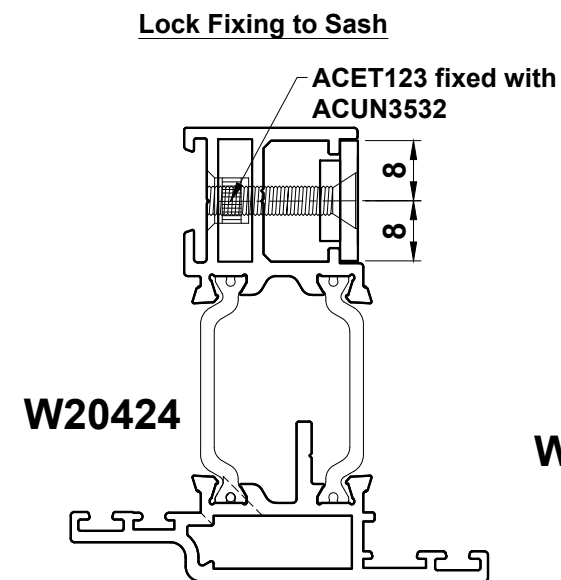
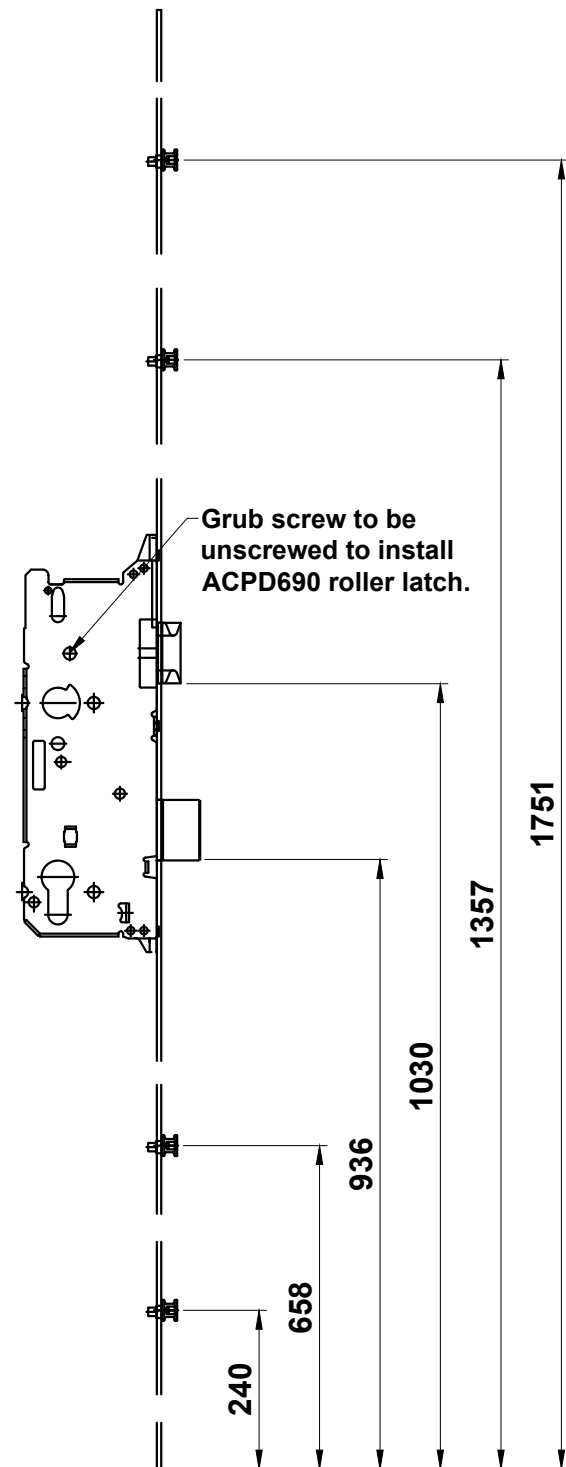
Open Out Door Lock Preparation Continued

ACW20066 Open Out Centre Keep



Do Not Scale From This Drawing

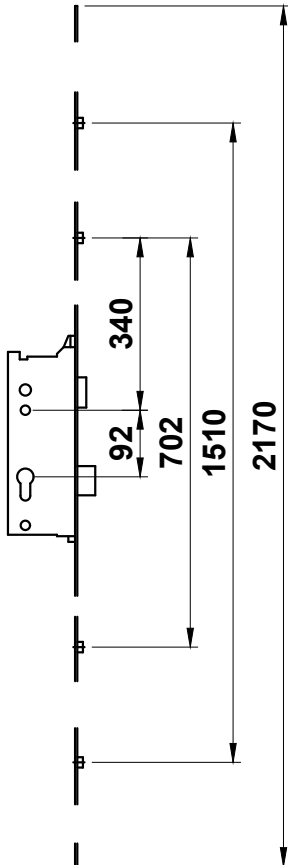
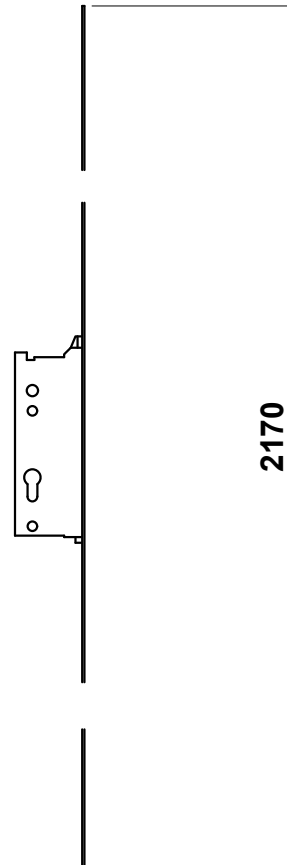
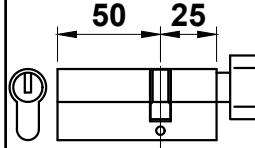
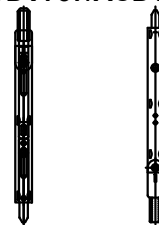
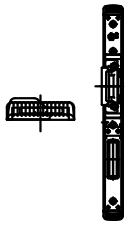
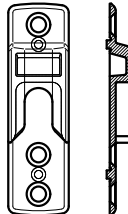
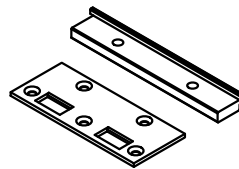
Open Out Door Lock Preparation



Do Not Scale From This Drawing

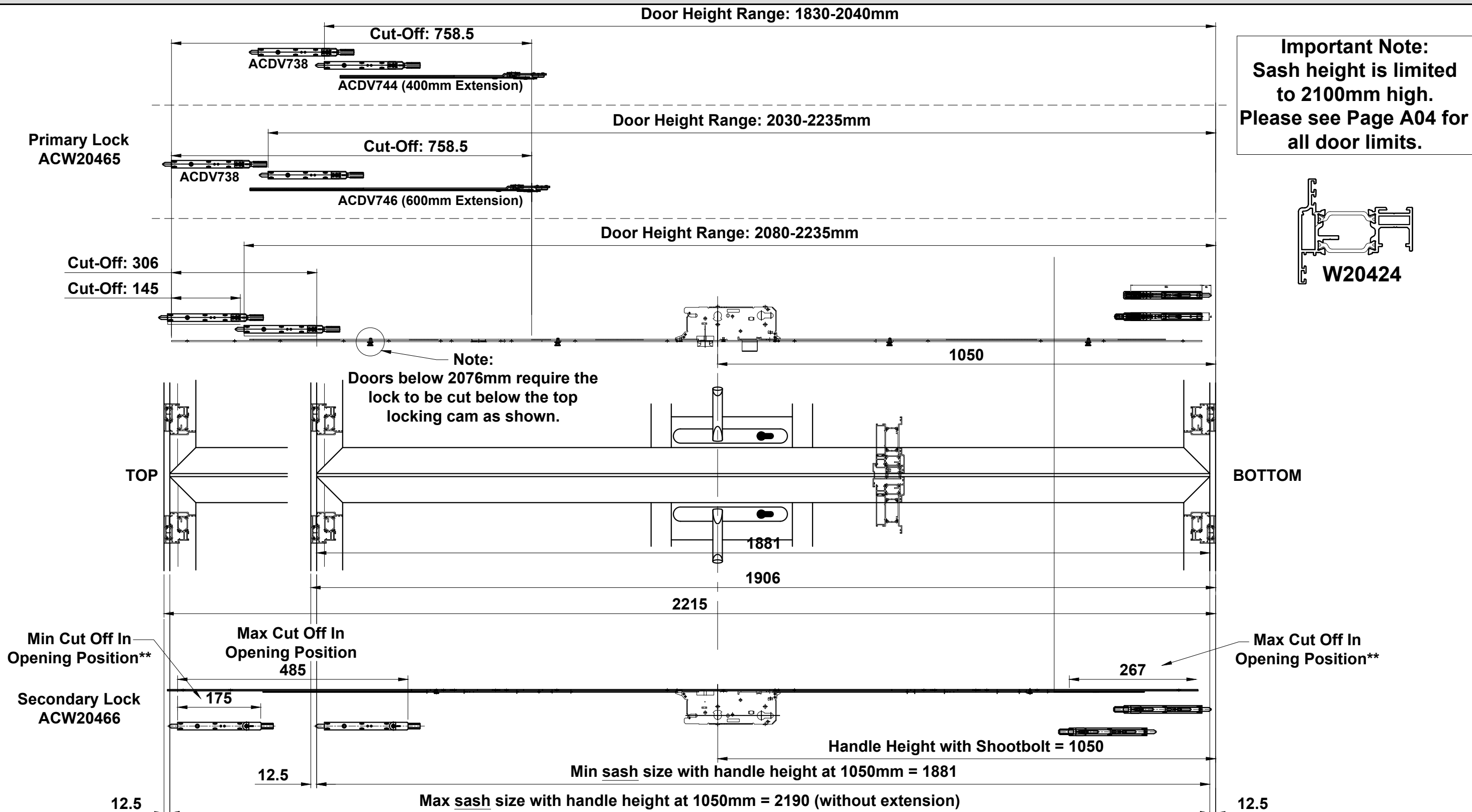
Double Door Lock Overview

W20424 Sash (PAS24)

Lock		Accessories	Quantity
ACW20465 	ACW20466 	ACCY5025NKTTS3 	1
		ACDV737/ACDV738 	2 / 2
		ACW20066 L/R 	1
		ACW20367 	4
		ACW20462 	Refer to pages E21 & E22

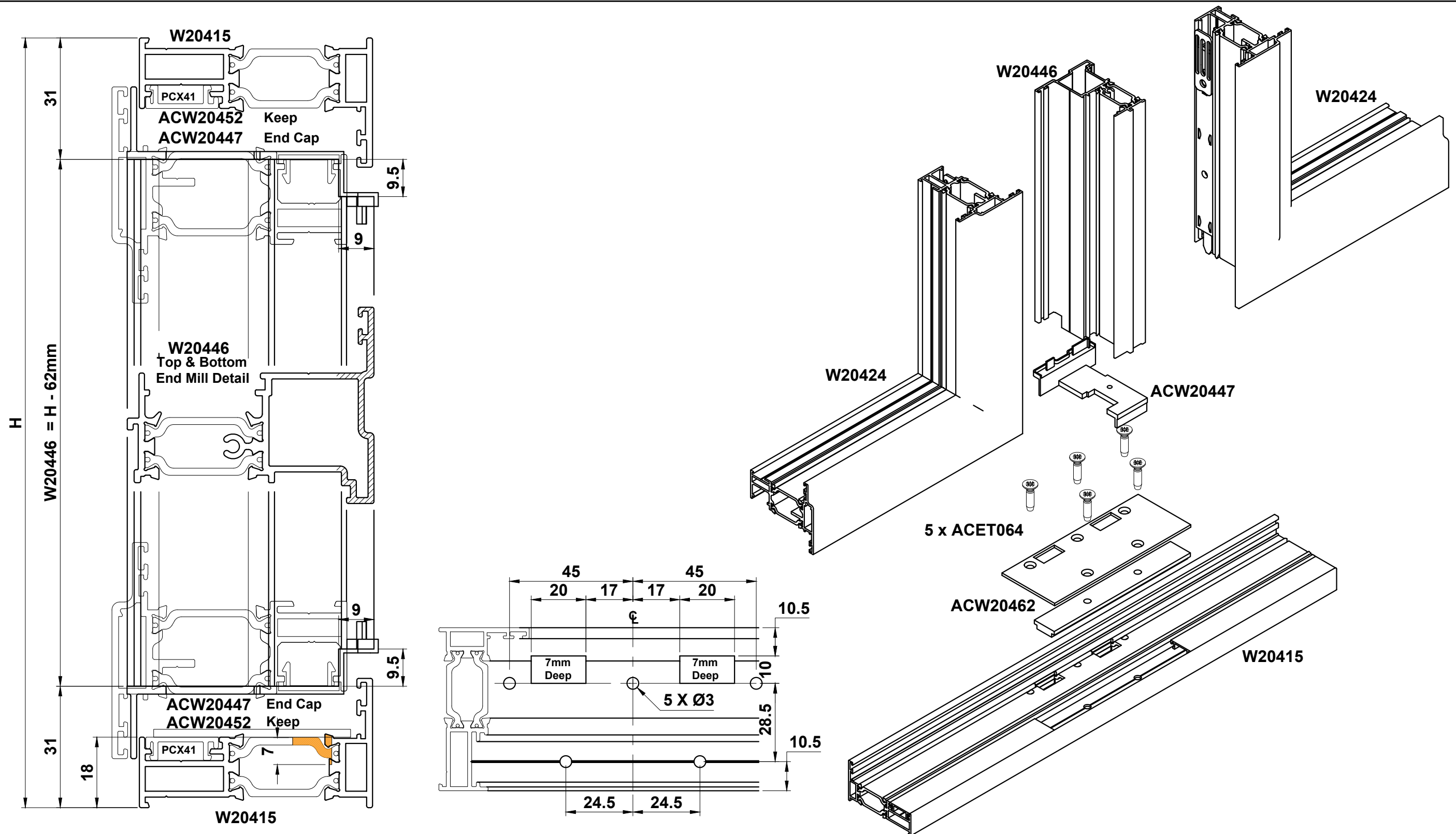
Do Not Scale From This Drawing

Open Out Lock Selection with Shootbolts (PAS24)



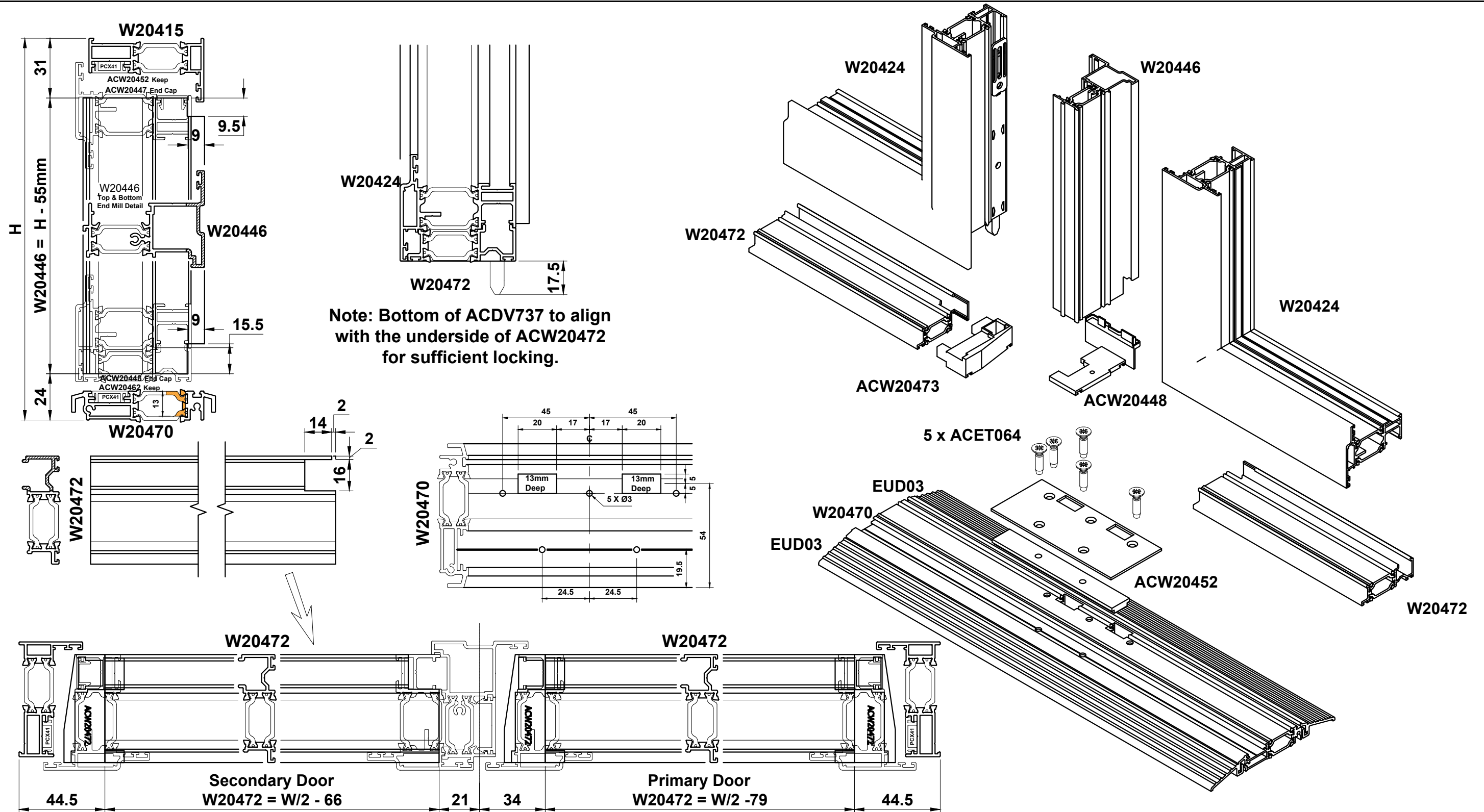
Do Not Scale From This Drawing

Open Out Double Door Frame All Around (PAS24)



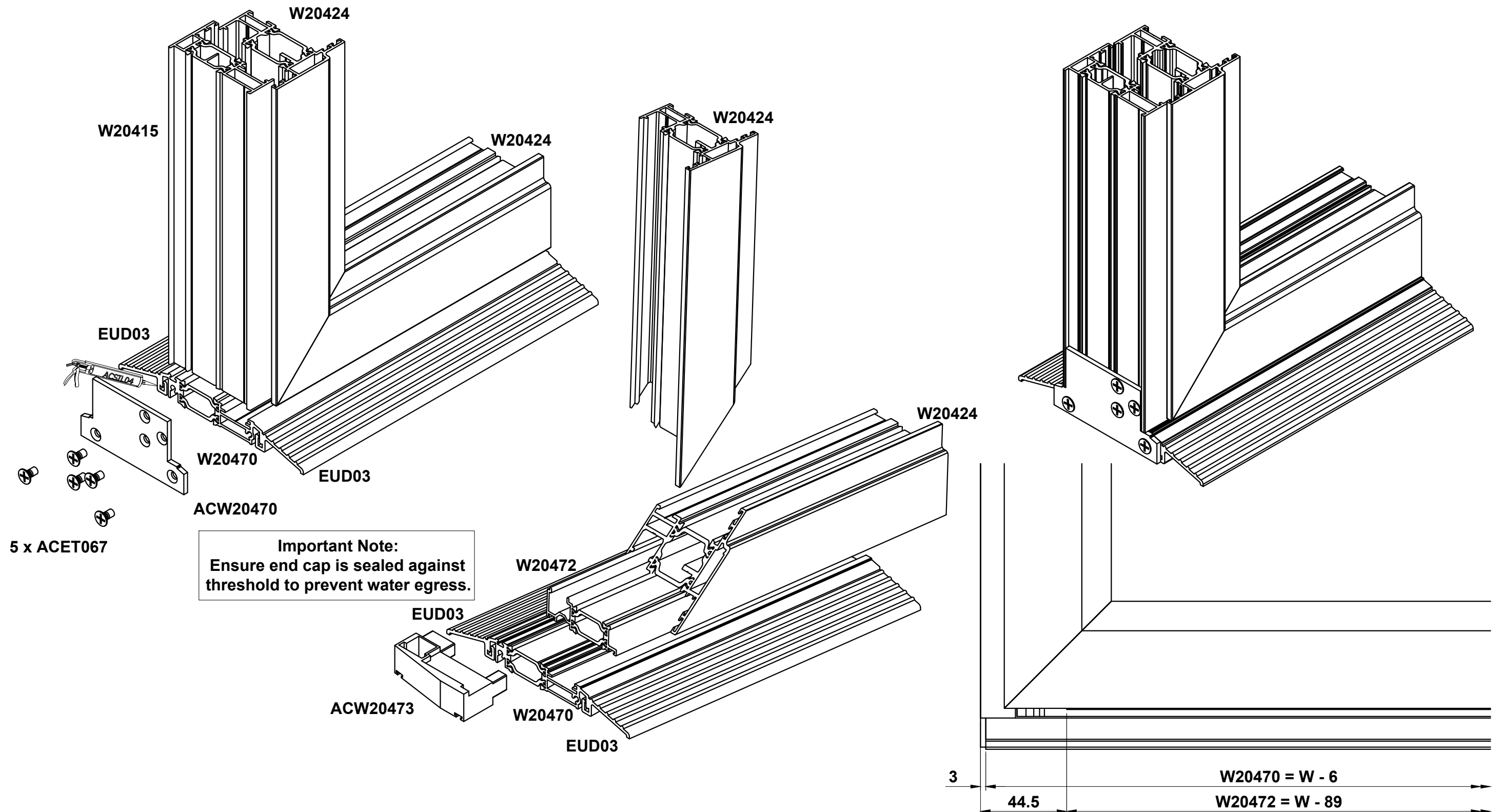
Do Not Scale From This Drawing

Open Out Double Door Low Threshold (PAS24)



Do Not Scale From This Drawing

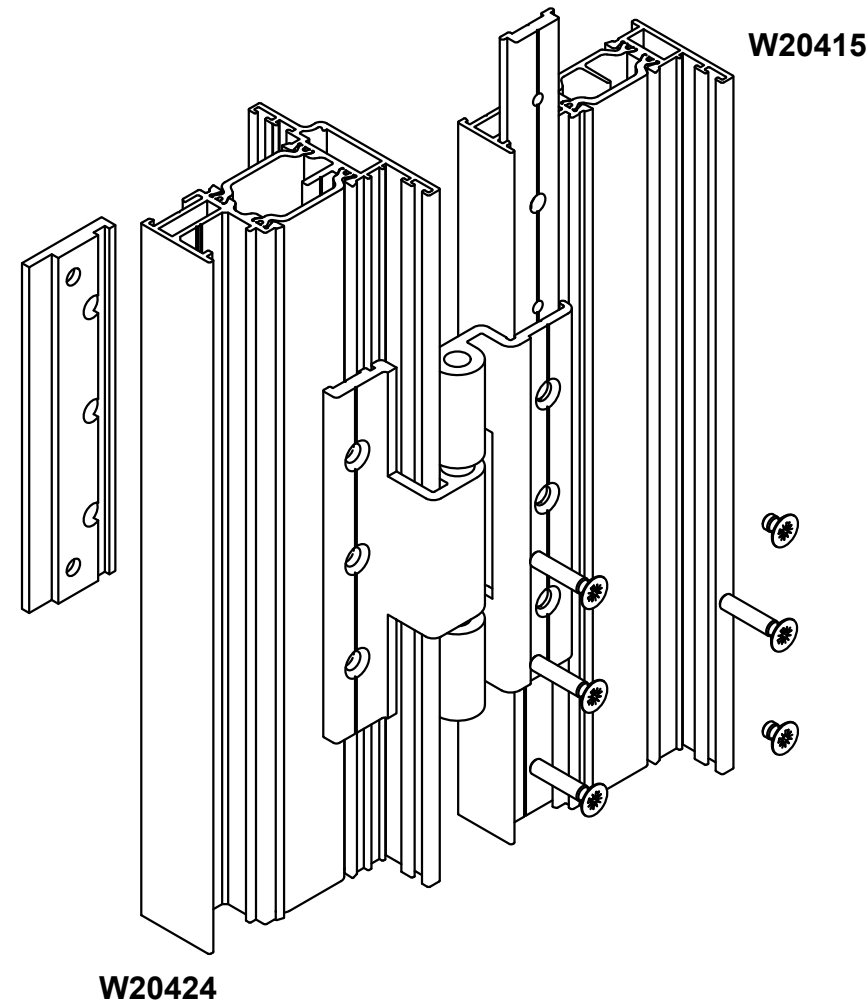
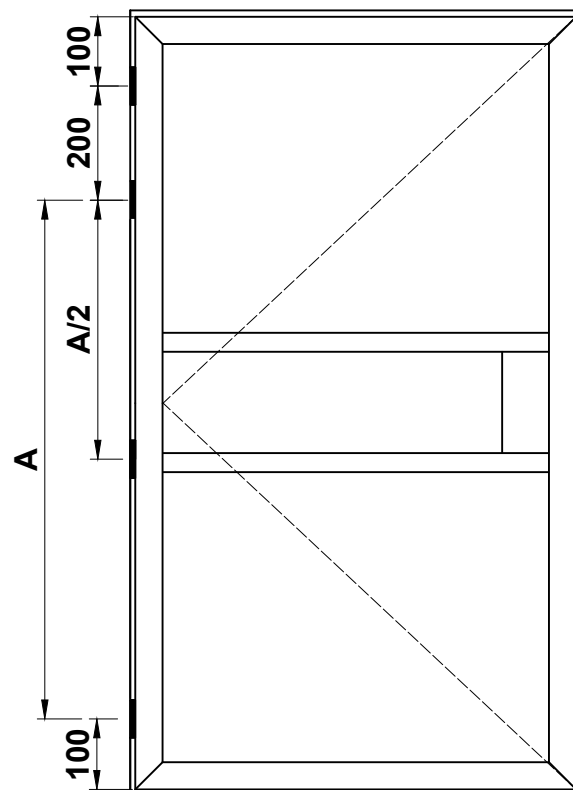
Open Out Low Threshold Detail



Do Not Scale From This Drawing

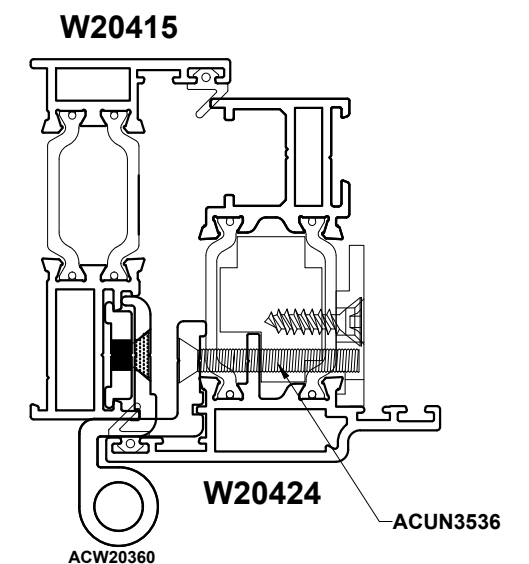
Open Out Door Hinge Details

Recommended hinge positions



Assembly Instructions

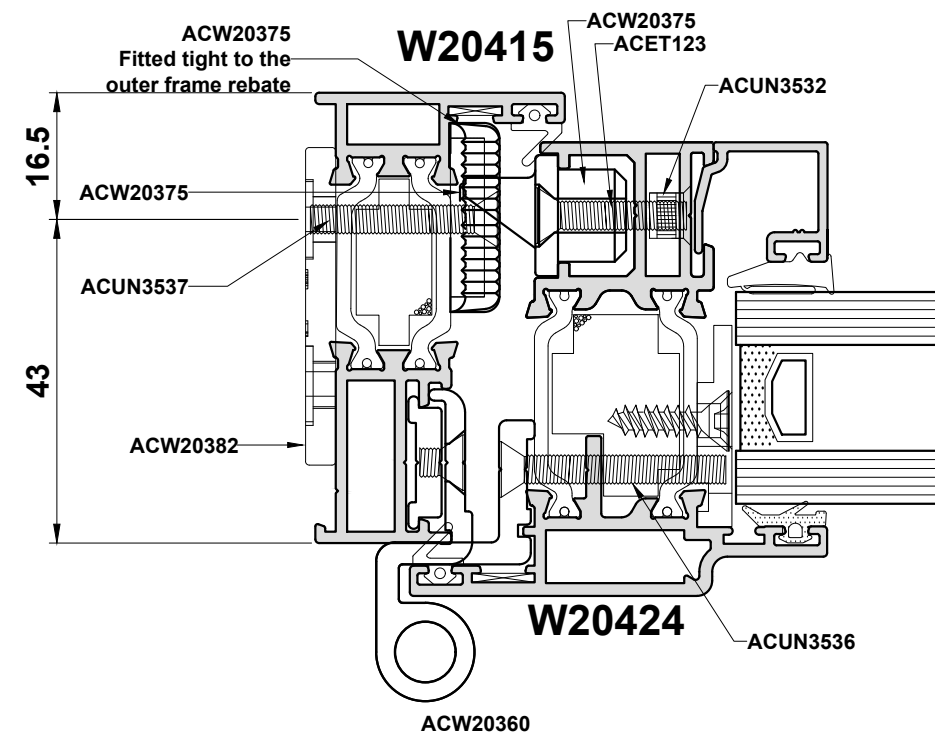
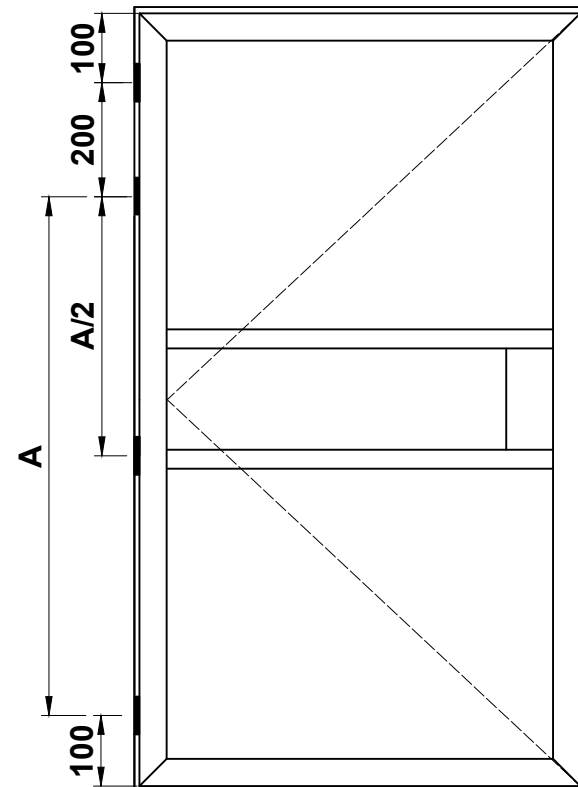
1. Slide hinge back plates into W20415 and W20424 before crimping.
2. Use the hinge to park the hole positions on W20424. Drill a 4.5mm clearance holes for M4 CSK machine screws. Fasten hinges to W20424 with M4 machine screws into back plate.
3. Fit W20424 into W20415 then fasten hinge to outer frame fixing hinges to W20415 frame back plates.
4. Once W20424 requires no further adjustment fix through center hinge hole to dead fix.



Do Not Scale From This Drawing

Open Out Door Hinge Details (PAS24 Option)

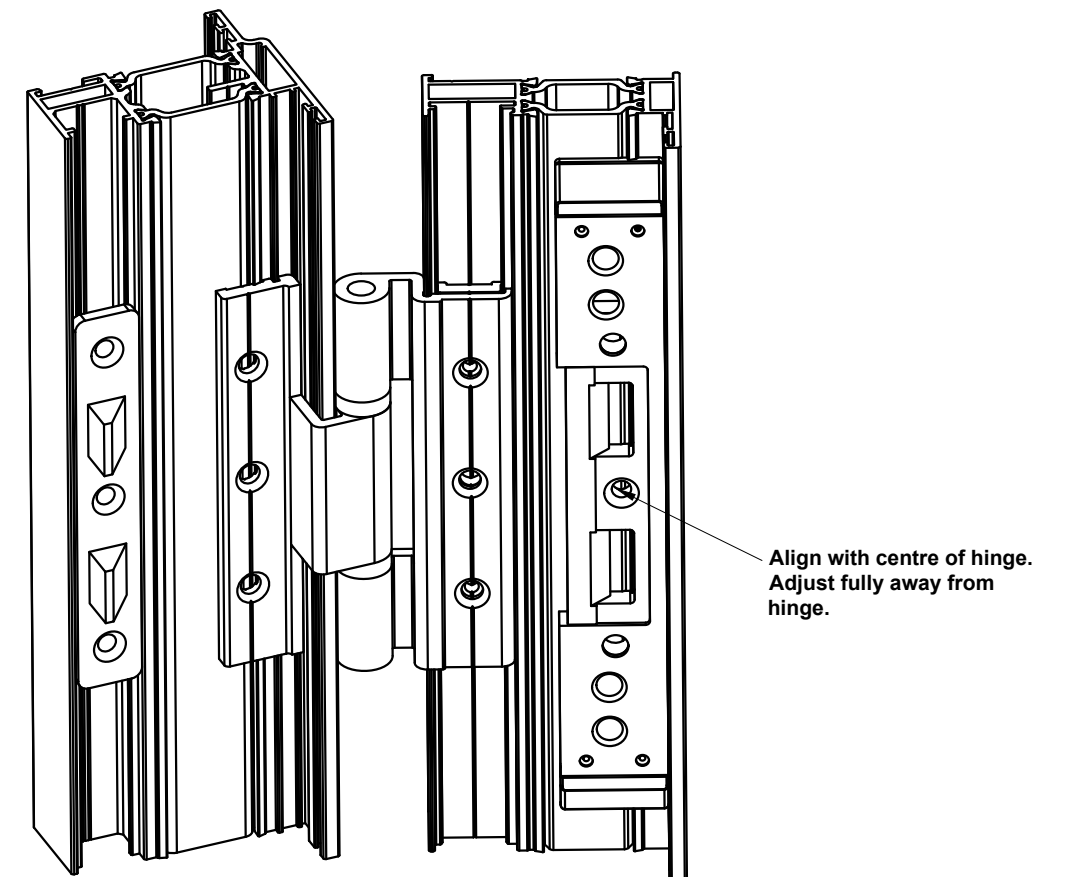
Recommended hinge and hinge protector positions



Note: Coupler will clash with ACW20382 fixing plate

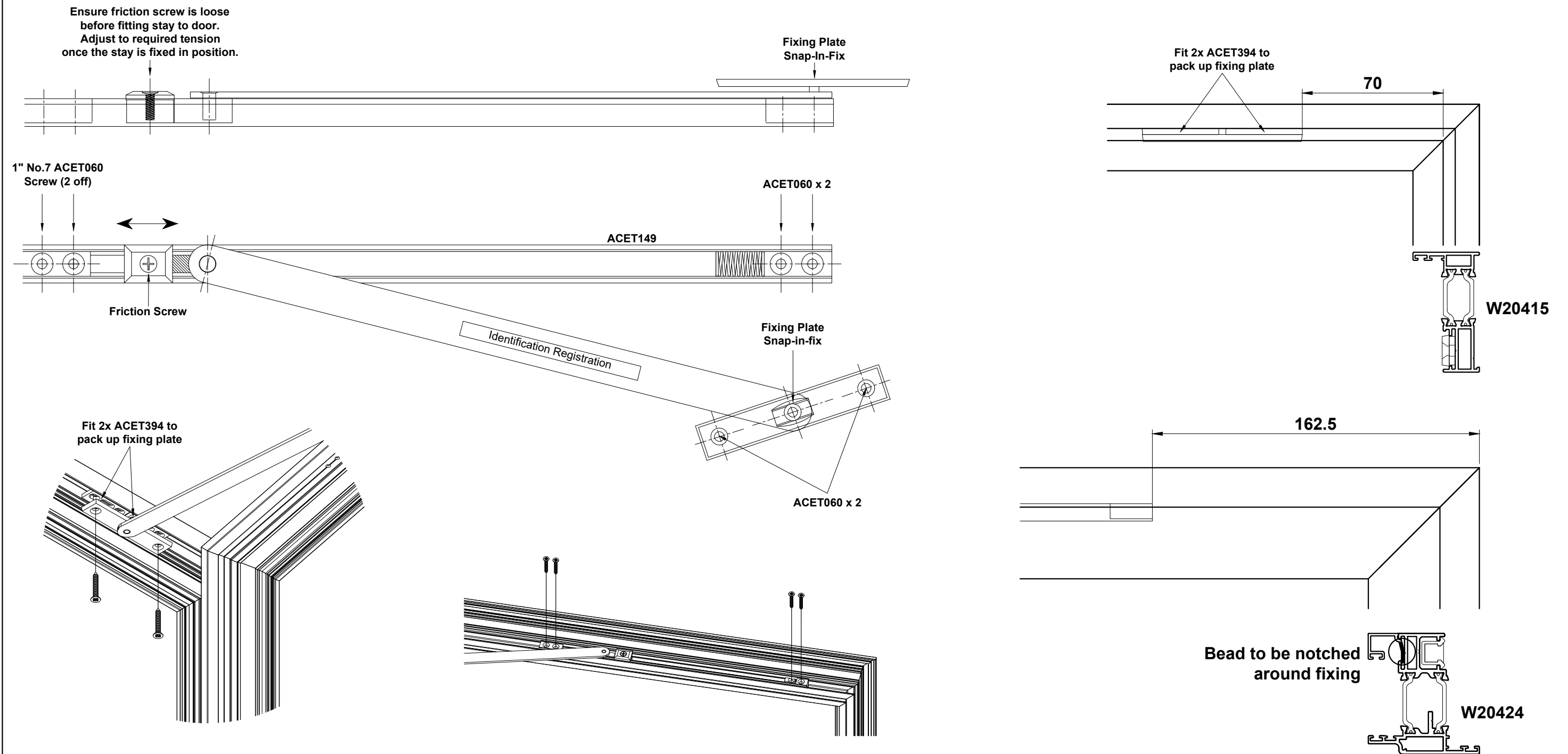
Assembly Instructions

1. Slide hinge back plates into W20415 and W20424 before crimping.
2. Use the hinge to park the hole positions on W20424. Drill a 4.5mm clearance holes for M4 CSK machine screws. Fasten hinges to W20424 with M4 machine screws into back plate.
3. Fit W20424 into W20415 then fasten hinge to outer frame fixing hinges to W20015 frame back plates.
4. Once W20424 requires no further adjustment fix through center hinge hole to dead fix.



Do Not Scale From This Drawing

Open Out 90° Restrictor Installation



Do Not Scale From This Drawing

PAS24 Open Out Single Door Full Requirements

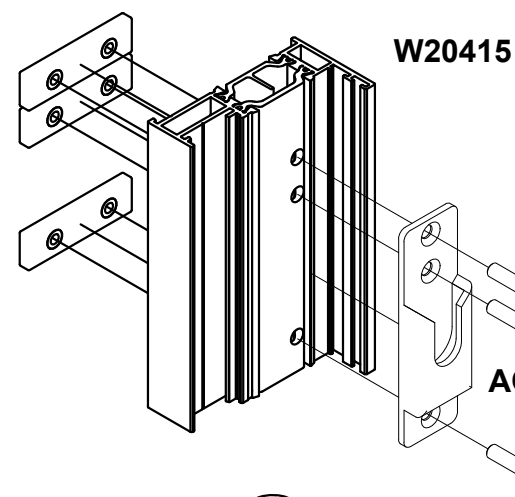
Single Door

Accessories Required to Achieve PAS24:2016

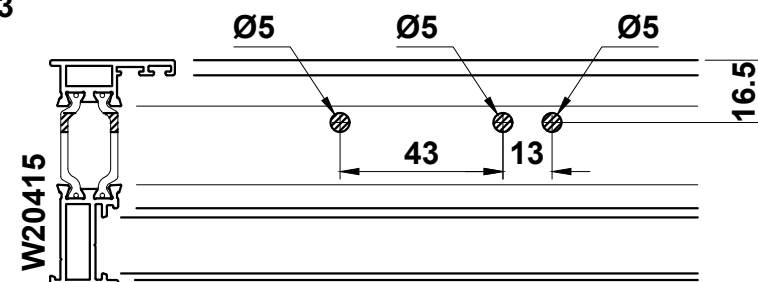
Guide Blocks	ACET380
Hinges / Hinge Protectors	ACW20360 / ACW20375
Lever/Lever Handle	ACSM001N
Cylinder	ACCY5025NKTTS3
Glass Packer Positions	
Centre Keep	ACW20066
Roller Keep	ACW20367
Lock	ACW20465
Bottom Shootbolt / Keep	ACDV737 / ACW20472
Top Shootbolt / Keep	ACDV738 / ACW20472

Note: Polyamide must be routed out prior to installing ACW20375 hinge protectors

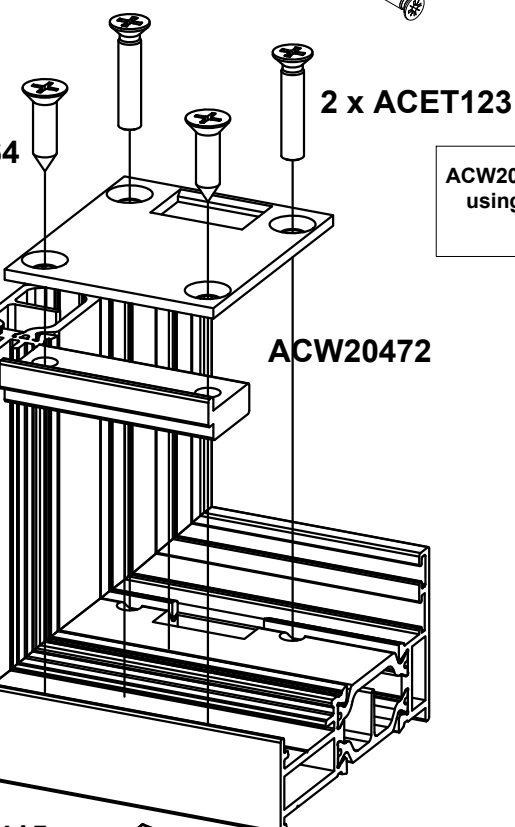
3 x ACW20382



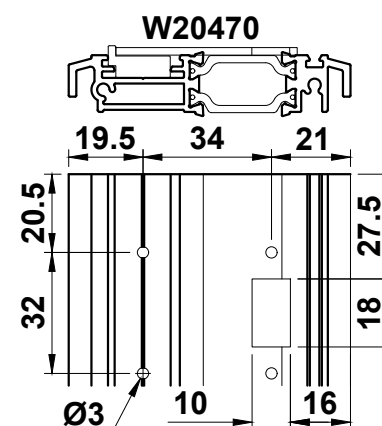
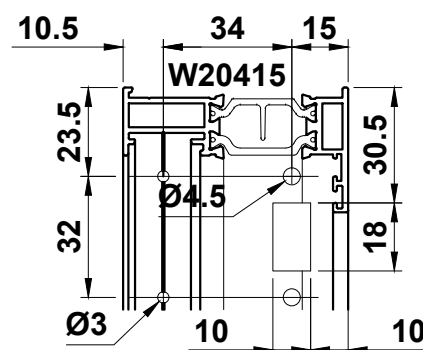
ACW20367 Roller Keep to be fixed through polyamide using ACET123 fixings and into ACW20382 reinforced M4 Fixing Plate.



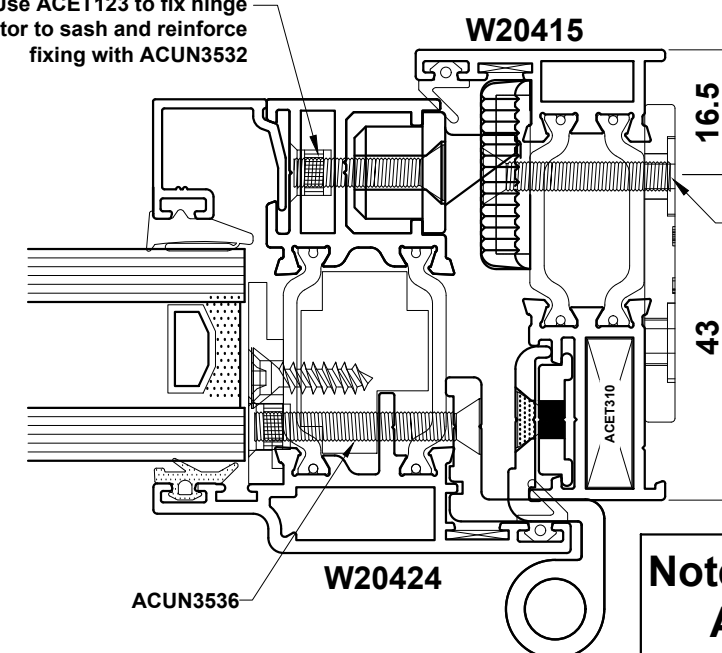
2 x ACET064



ACW20472 Keep to be fixed through polyamide using ACET123 fixings and into ACW20382 reinforced M4 Fixing Plate.



Use ACET123 to fix hinge protector to sash and reinforce fixing with ACUN3532

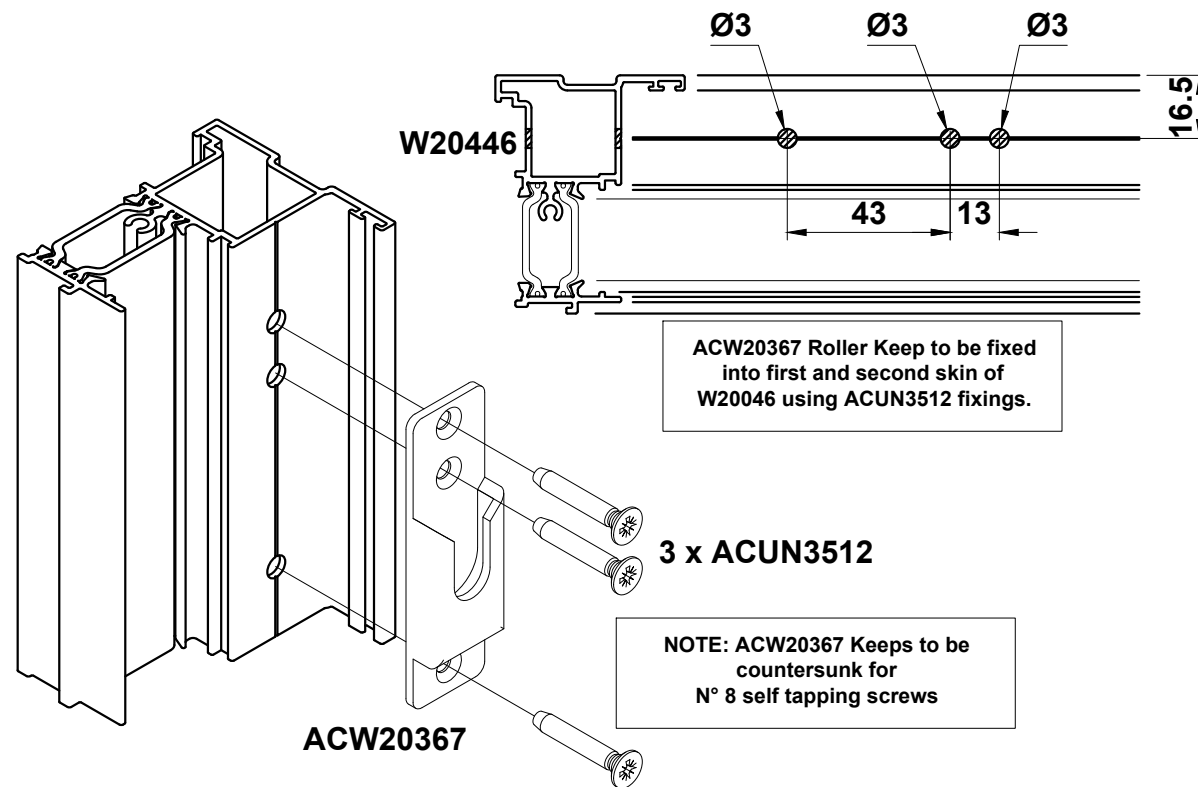


- Use ACW20382 to reinforce hinge protector and fix with ACUN3537.

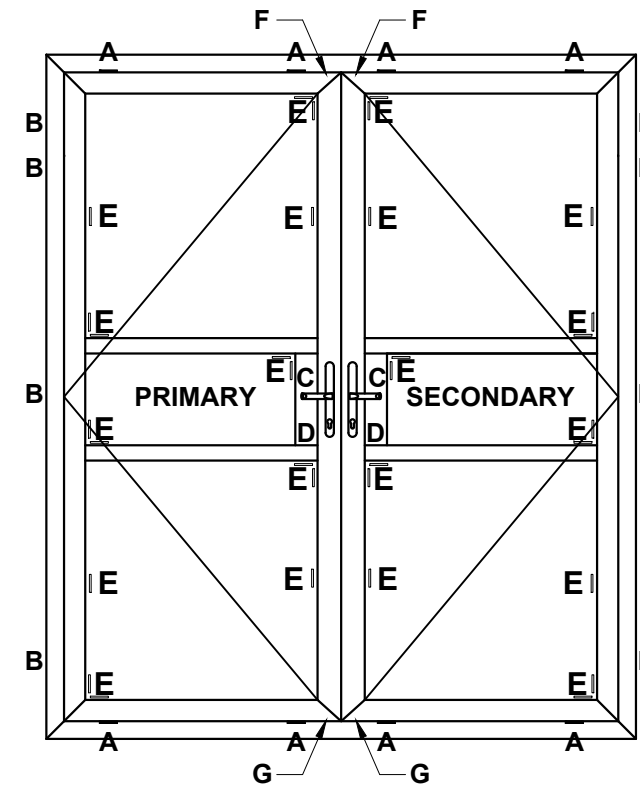
Note: Coupler will clash with ACW20382 fixing plate

Do Not Scale From This Drawing

PAS24 Open Out Double Door Full Requirements

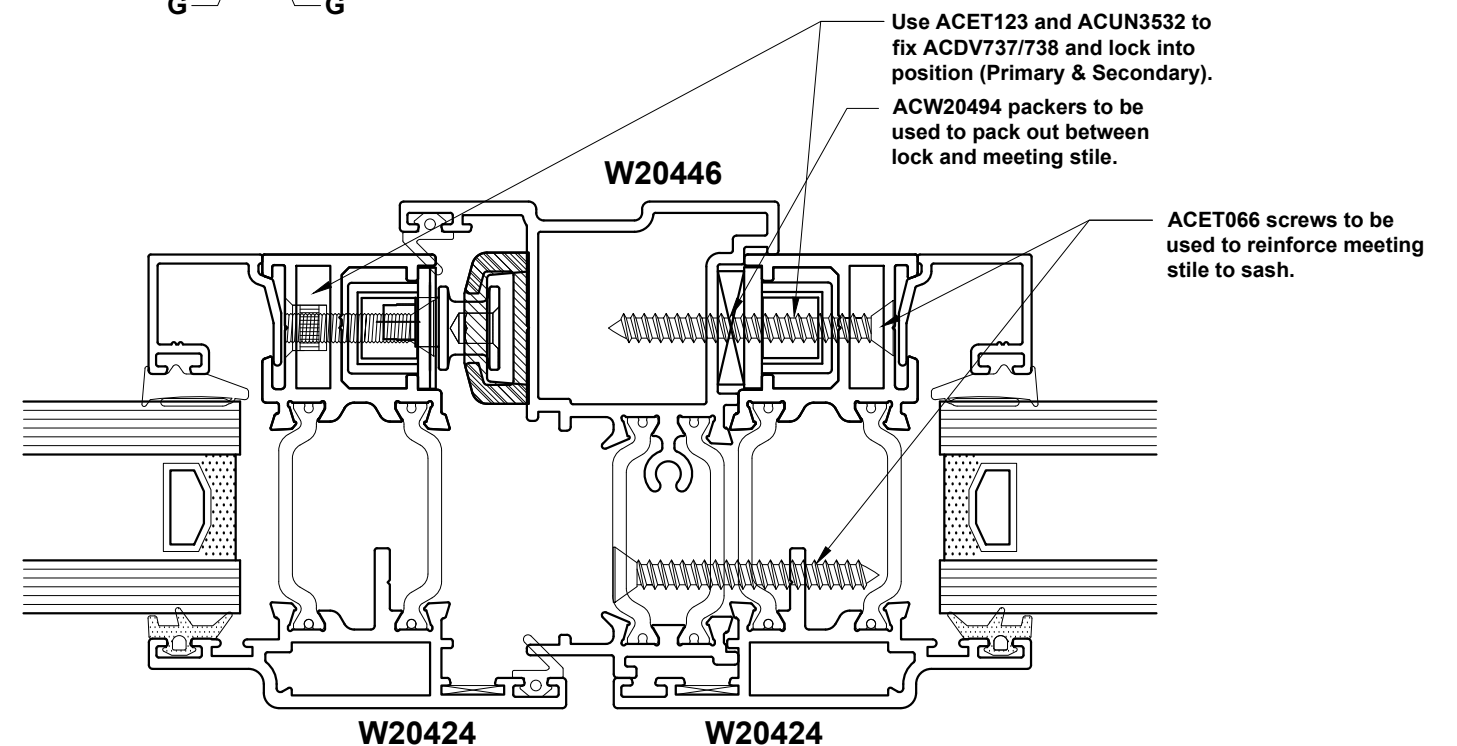


Note: Please see single door PAS24 page to see preparation for the hinge side of the double door.

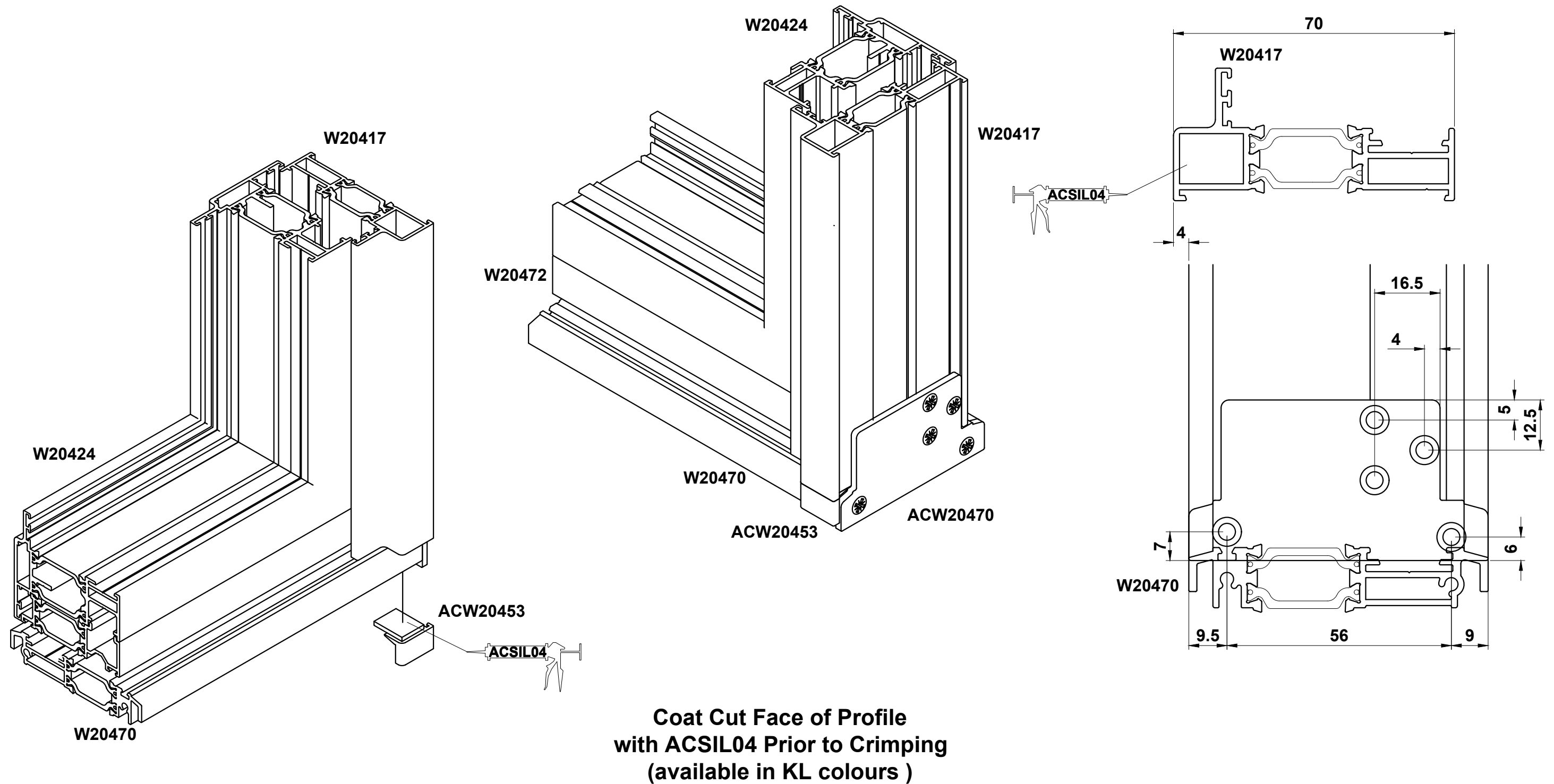


Double Door Accessories Required to Achieve PAS24:2016

A	Guide Blocks	ACET380
B	Hinges/Hinge Protector	ACW20360/ACW20375
C	Lever/Lever Handle	ACSM001N
D	Cylinder	ACCY4525NKTTS3
E	Glass Packer Positions	
F	Top Shootbolt/Keep	ACDV738/ACW20452
G	Bottom Shootbolt/Keep	ACDV737/ACW20452
	Centre Keep	ACW20066
	Roller Keep	ACW20367
	Primary Lock	ACW20465
	Secondary Lock	ACW20466



Do Not Scale From This Drawing



Do Not Scale From This Drawing

Do Not Scale From This Drawing

Section E



Construction Drawings - Open In

Open In Door Cill Drainage..... E27

Open In Door Threshold Drainage..... E28 - E29

Single Door Lock Overview..... E30

Open In Door Lock Preparation E31

Open In Door Lock Preparation Continued..... E32

Open In Door Lock Preparation (PA S24 Option)..... E33

Double Door Lock Overview..... E34

Open In Lock Selection With Shootbolts (PA S24 Option)..... E35

Open In Double Door Frame All Around (PA S24 Option)..... E36

Open In Double Low Threshold (PA S24 Option)..... E37

Open In Double Low Threshold Detail E38

Open In Door Hinge Details E39

Open In Door Hinge Details (PA S24 Option)..... E40

Open In 90 Restrictor Installation..... E41

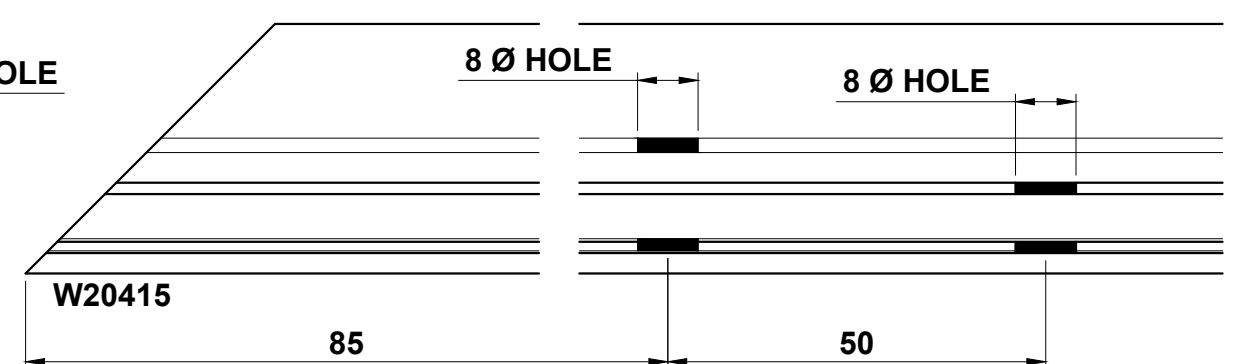
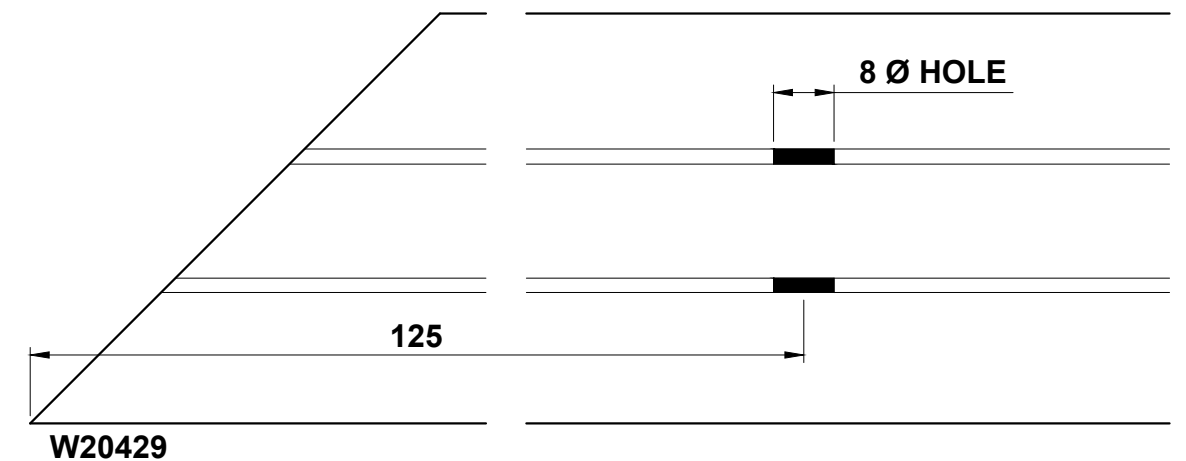
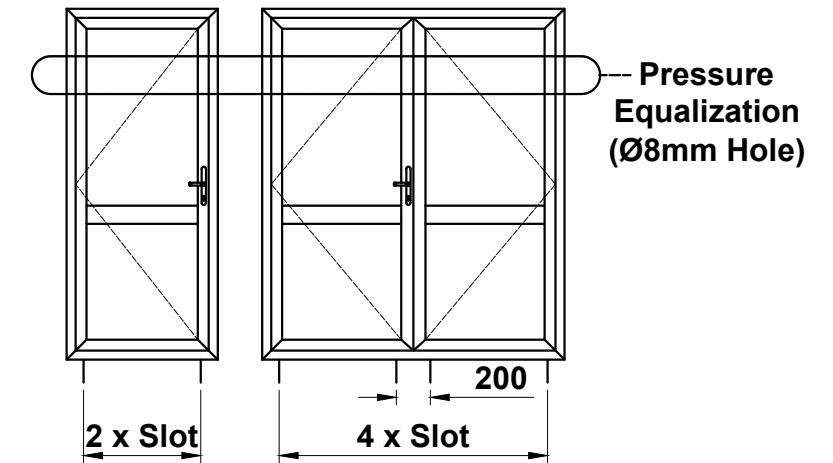
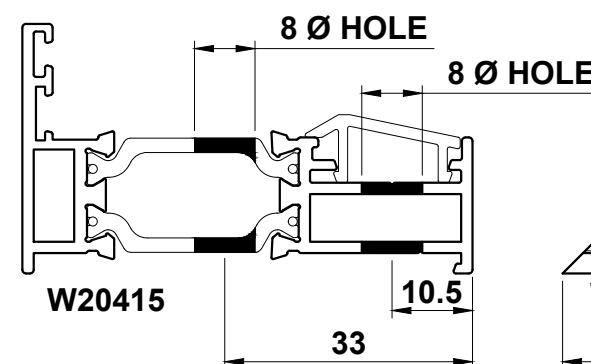
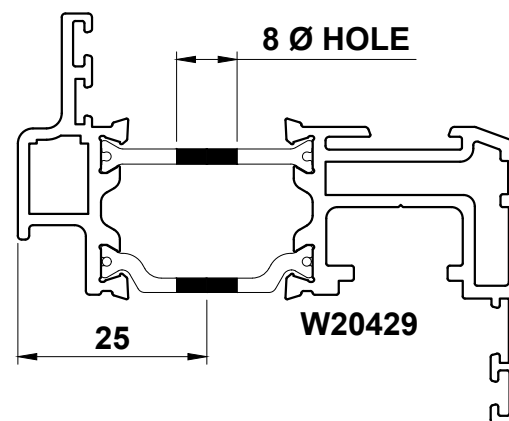
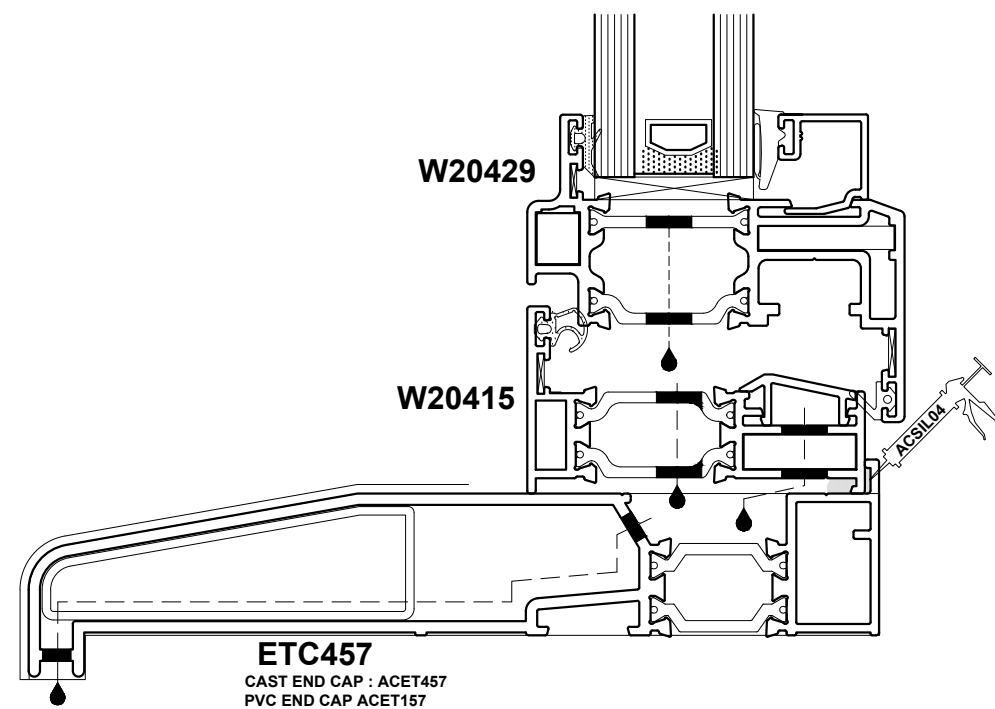
PAS24 Open In Single Door Full Requirements E42

PAS24 Open IN Double Door Full Requirements E43

Glazing Chart E46

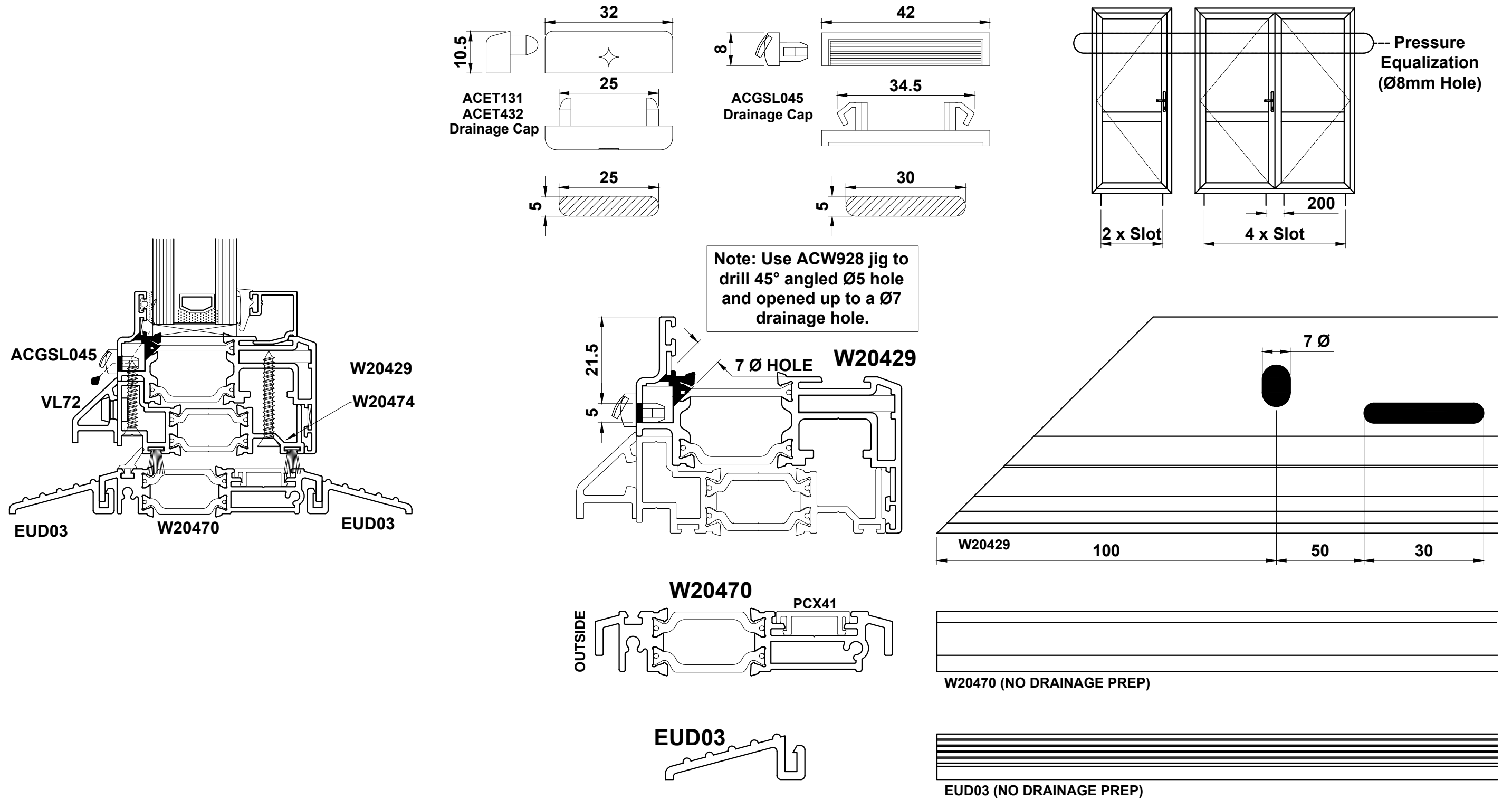


Open In Door Cill Drainage



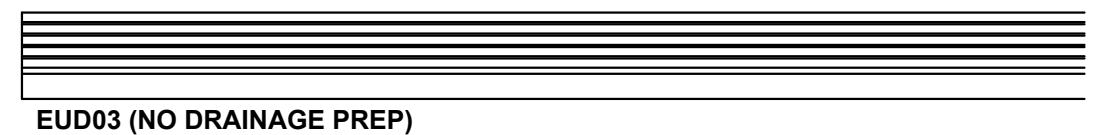
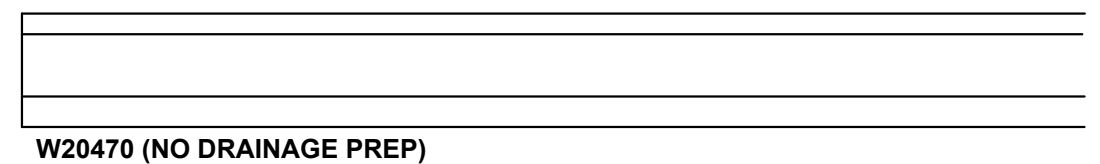
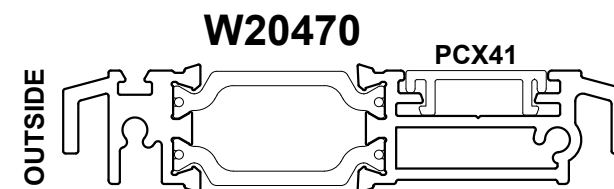
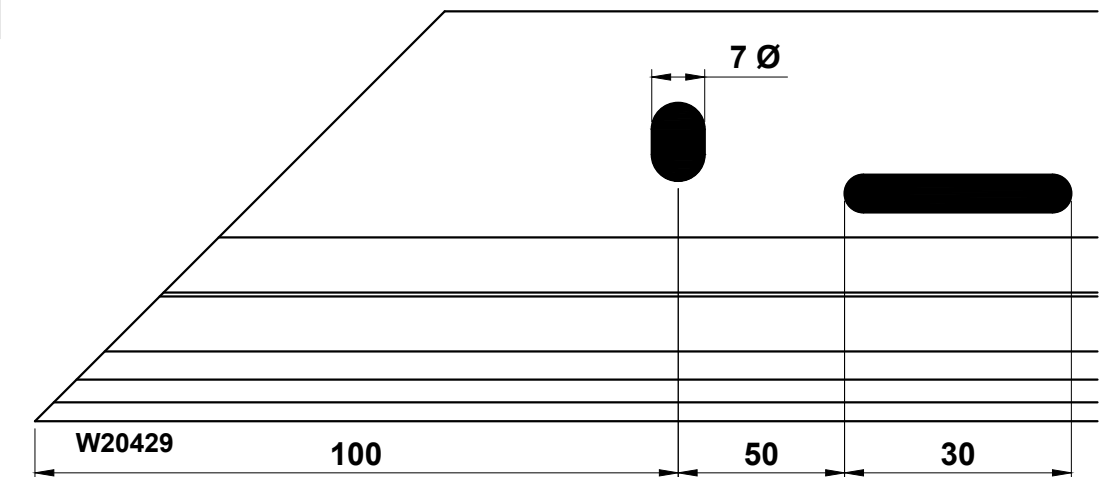
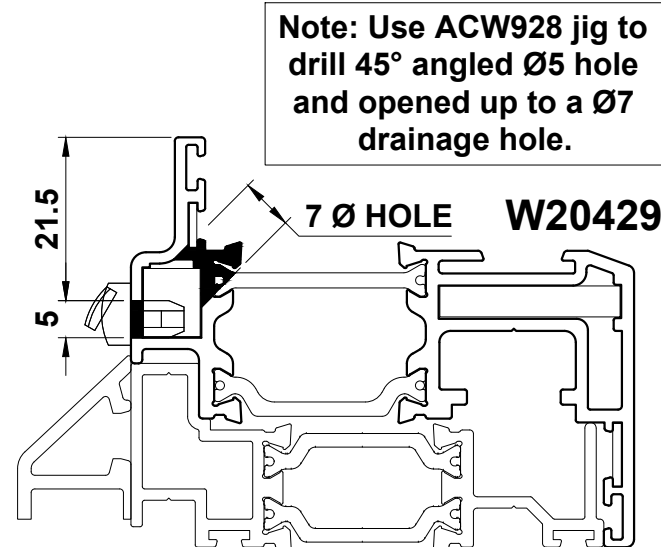
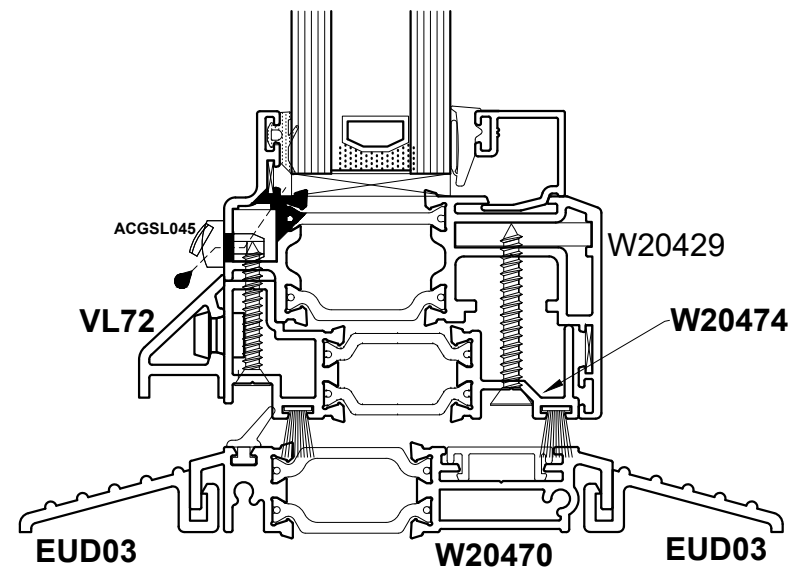
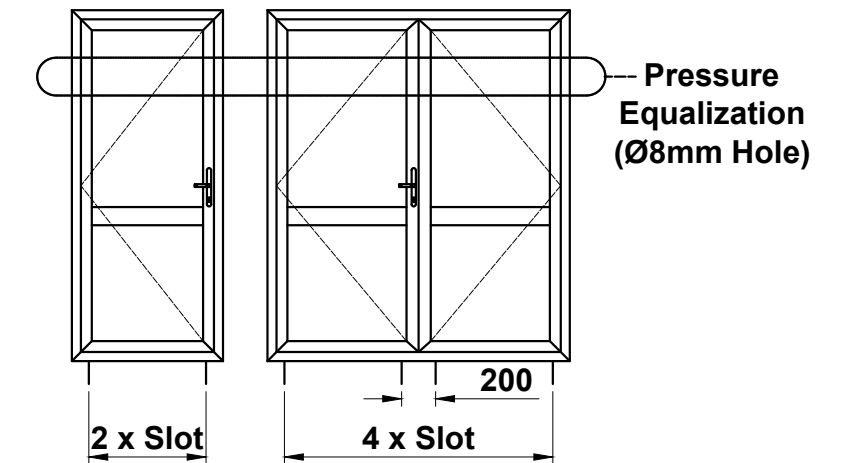
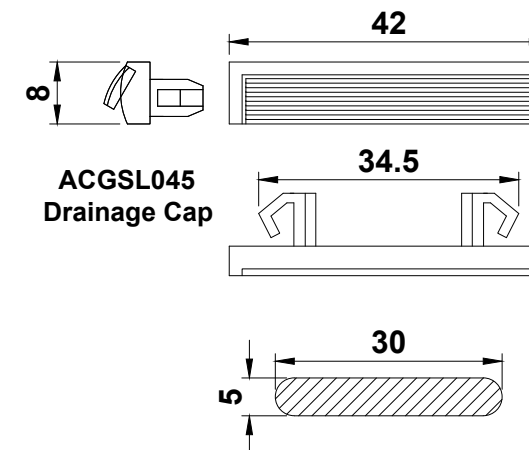
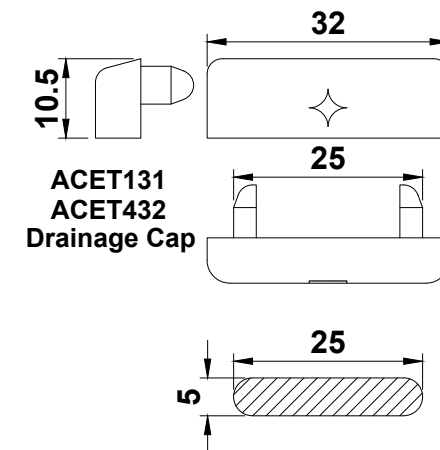
Do Not Scale From This Drawing

Open In Door Threshold Drainage



Do Not Scale From This Drawing

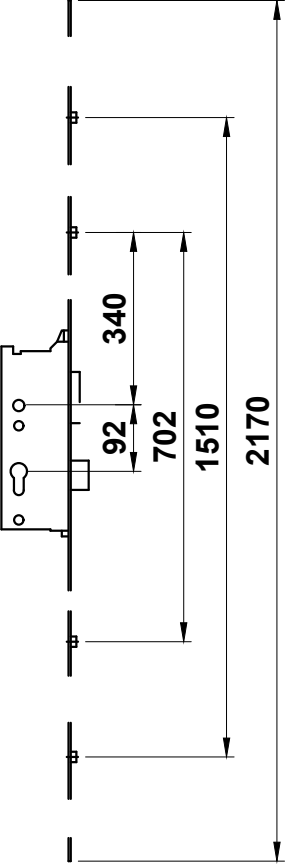
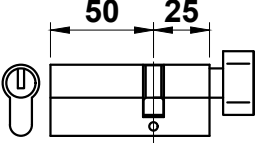
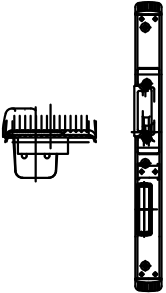
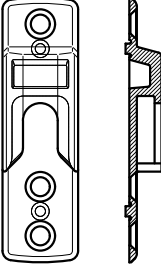
Open In Door Threshold Drainage



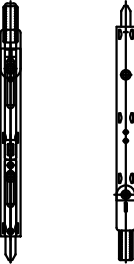
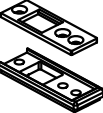
Do Not Scale From This Drawing

Single Door Lock Overview

W20429 Sash (PAS24)

Lock	Accessories	Quantity
	ACW20465 ACCY5025NKTTS3 	1
	ACW20066 L/R 	1
	ACW20367 	4

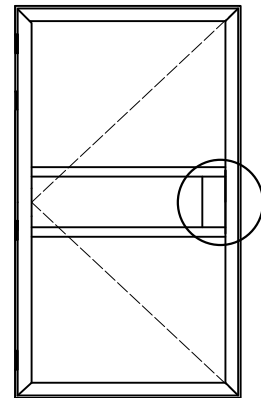
Additional hardware for PAS24

ACDV737/ACDV738 	2 / 2
ACW20388 	2

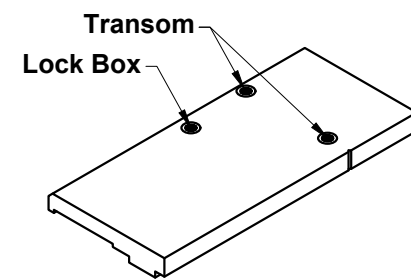
For PAS24 requirements,
please refer to page E42

Do Not Scale From This Drawing

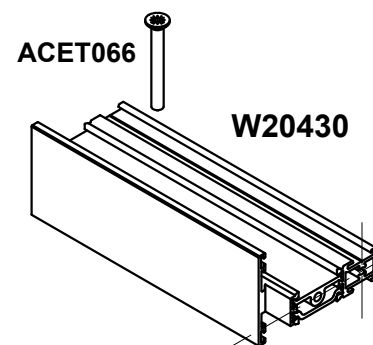
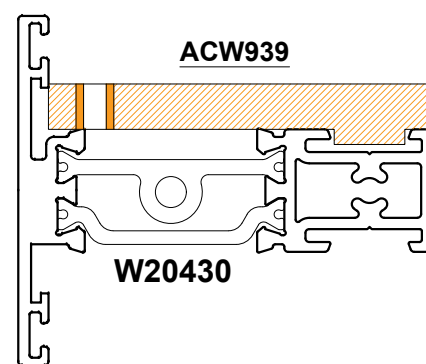
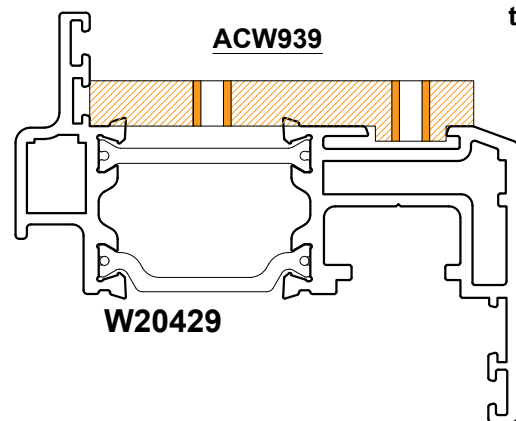
Open In Door Lock Preparation



Drill Jig = ACW939
Jig **MUST** be clamped in position before drilling

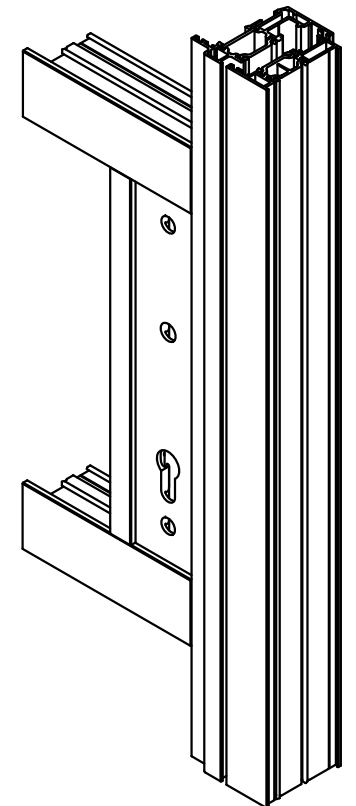
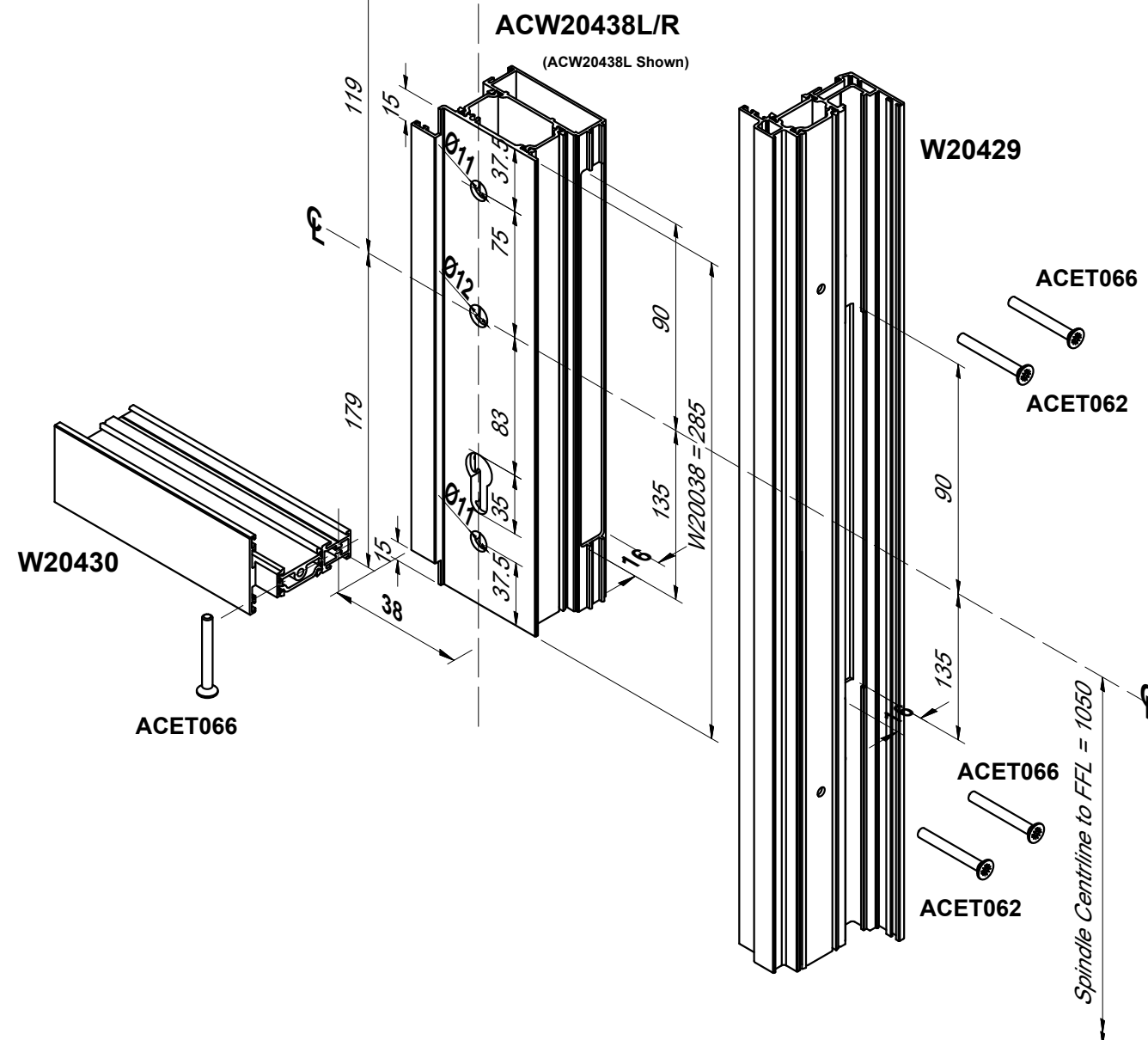


ACET066 and ACET062
screw to secure
transoms/mullions



Note: W20430 and W20438 to be end milled as shown

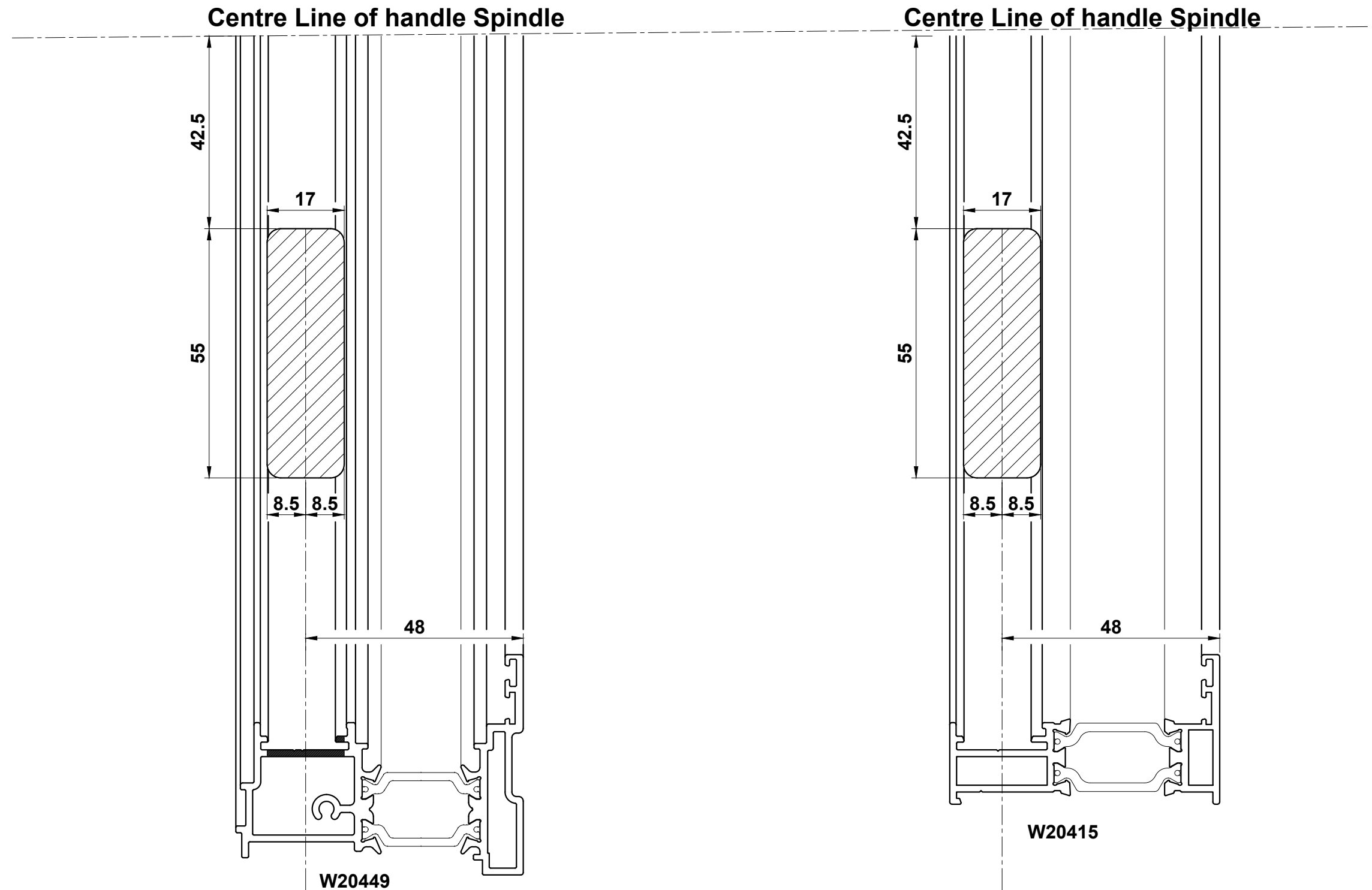
ACW20438L/R
(ACW20438L Shown)



Do Not Scale From This Drawing

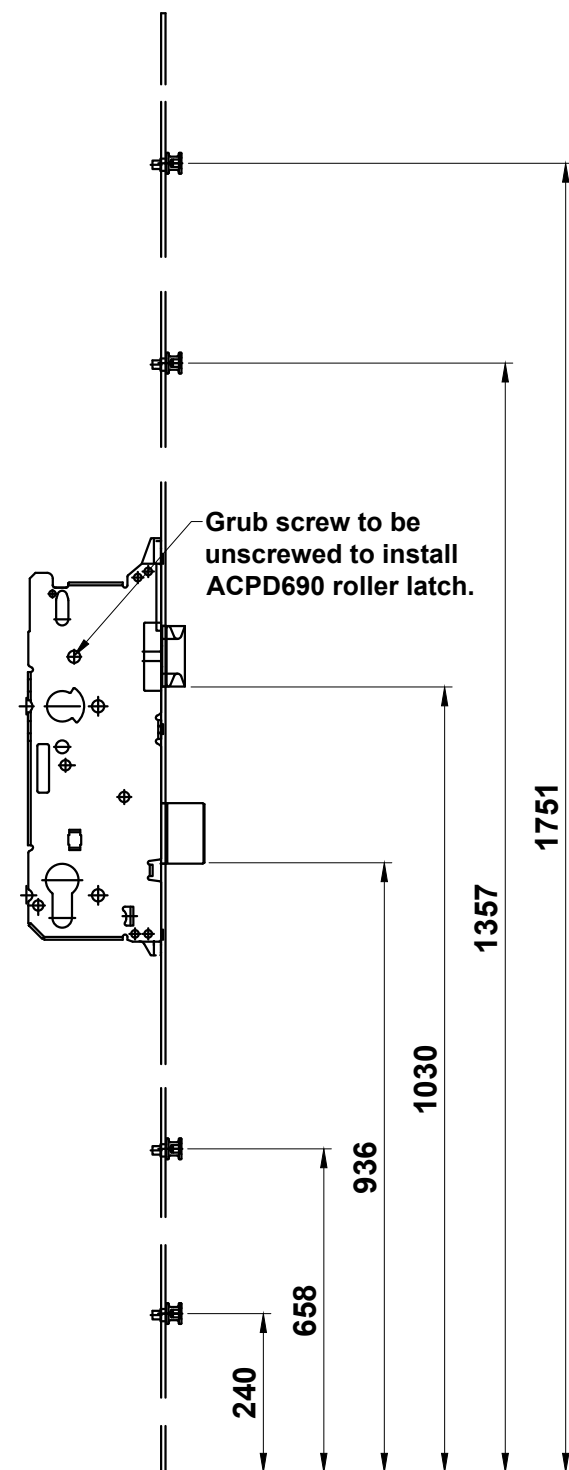
Open In Door Lock Preparation Continued

ACW20166 Open In Centre Keep

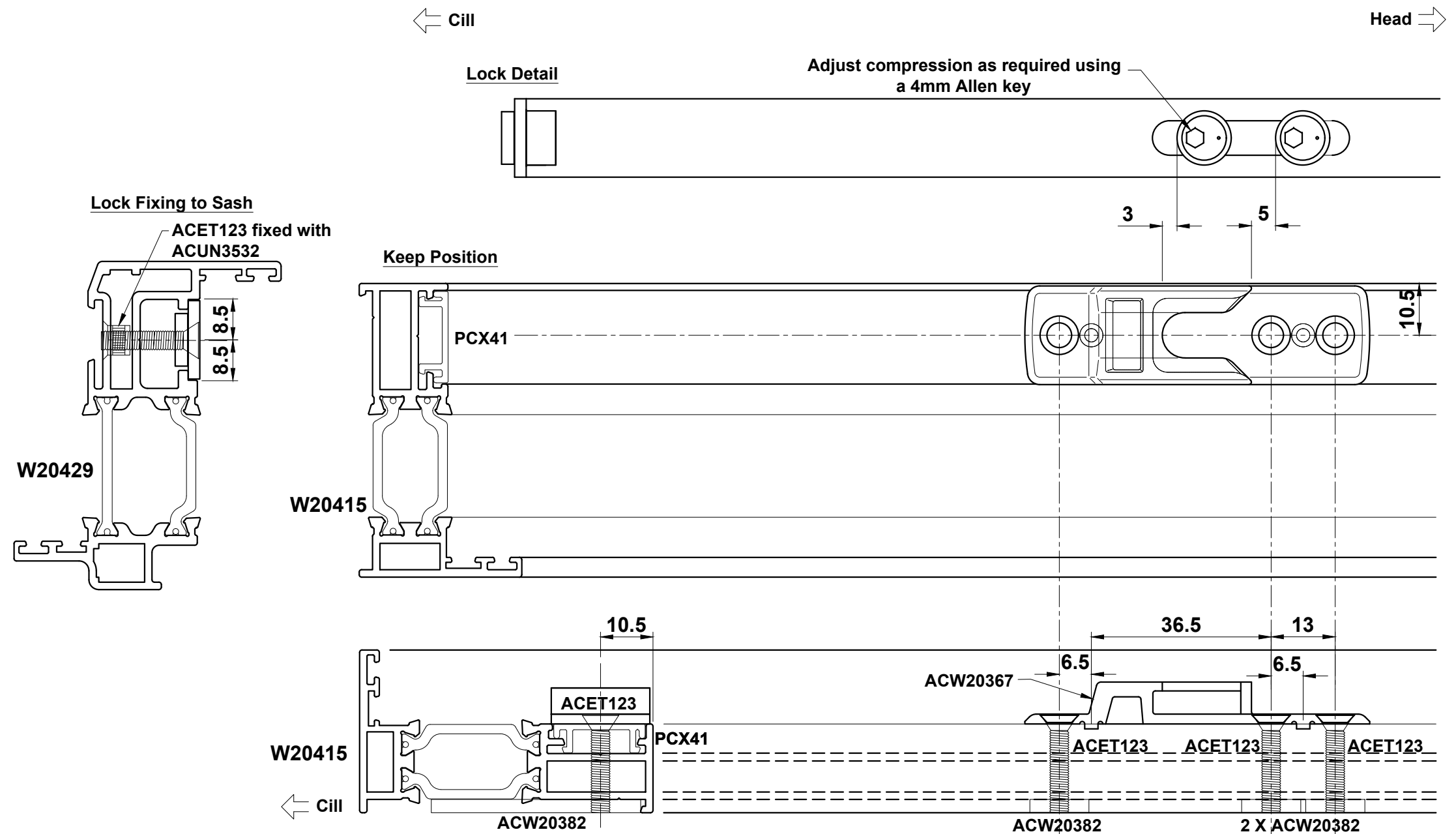


Do Not Scale From This Drawing

Open In Door Lock Preparation

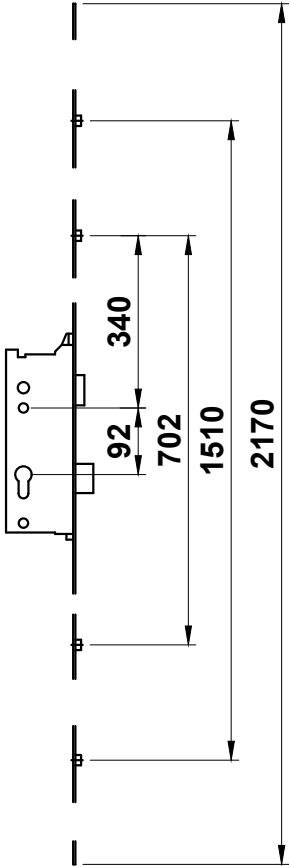
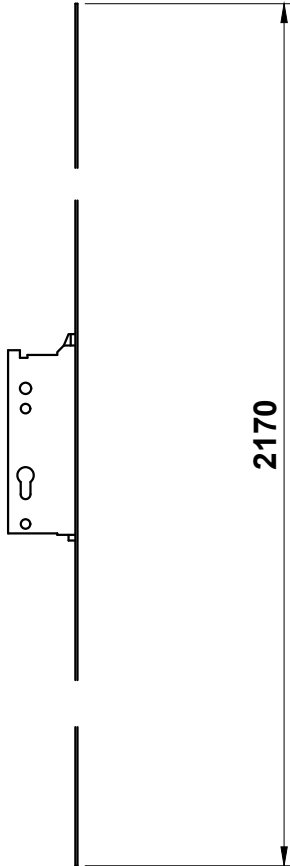
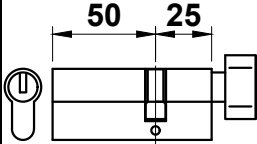
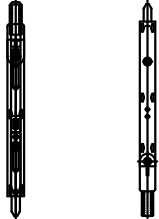
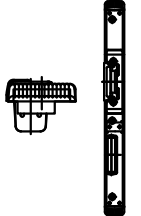
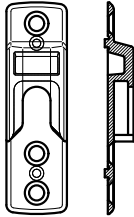
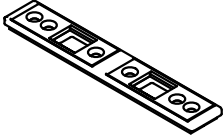


Locking Positions (in unlocked position)



Double Door Lock Overview

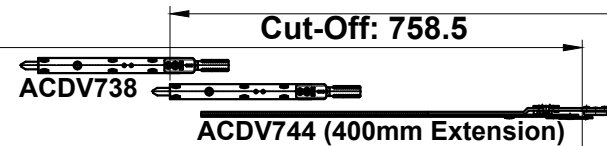
W20429 Sash (PAS24)

Lock		Accessories	Quantity
ACW20465 	ACW20466 	ACCY5025NKTTTS3 	1
		ACDV737/ACDV738 	2 / 2
		ACW20066 L/R 	1
		ACW20367 	4
		ACW20385 	2

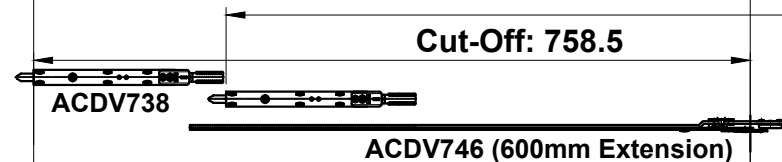
Do Not Scale From This Drawing

Open In Lock Selection with Shootbolts (PAS24)

Door Height Range: 1830-2040mm

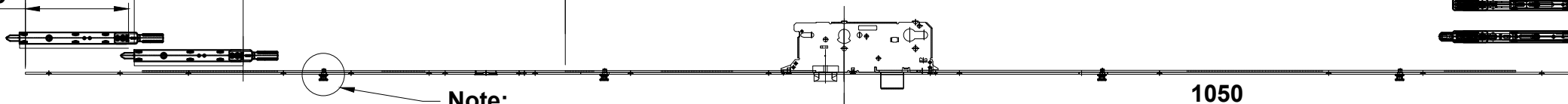


Door Height Range: 2030-2235mm



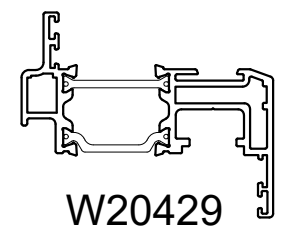
Door Height Range: 2080-2235mm

Cut-Off: 306
Cut-Off: 145



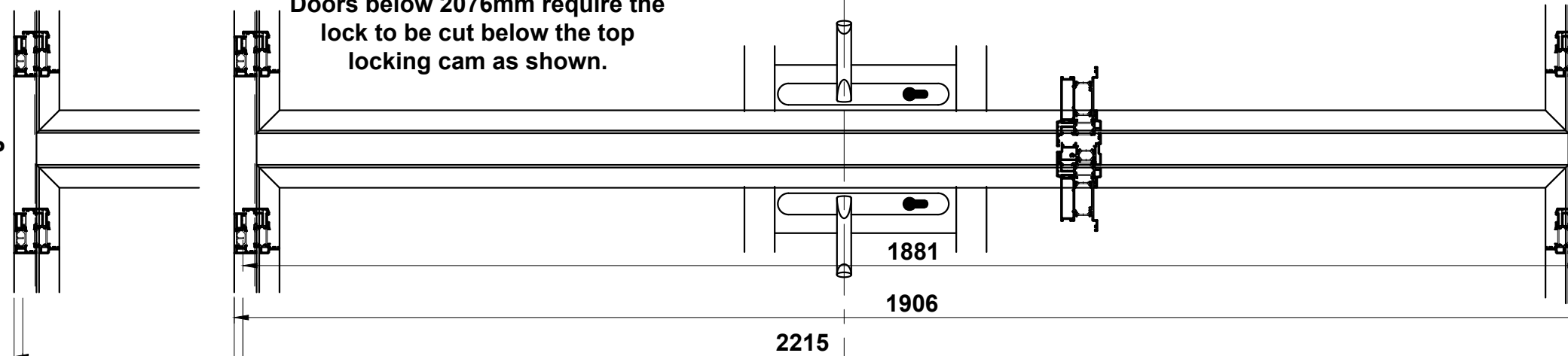
Note:
Doors below 2076mm require the
lock to be cut below the top
locking cam as shown.

Important Note:
Sash height is limited
to 2100mm high.
Please see Page A04 for
all door limits.



TOP

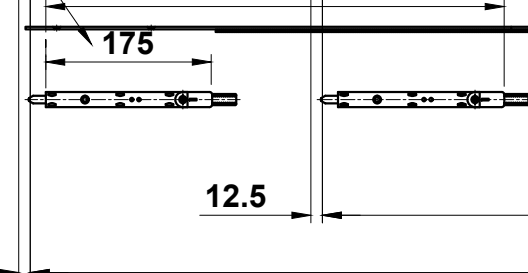
BOTTOM



Min Cut Off In
Opening Position**

Max Cut Off In
Opening Position
485

Secondary Lock
ACW20466



Max Cut Off In
Opening Position**

267

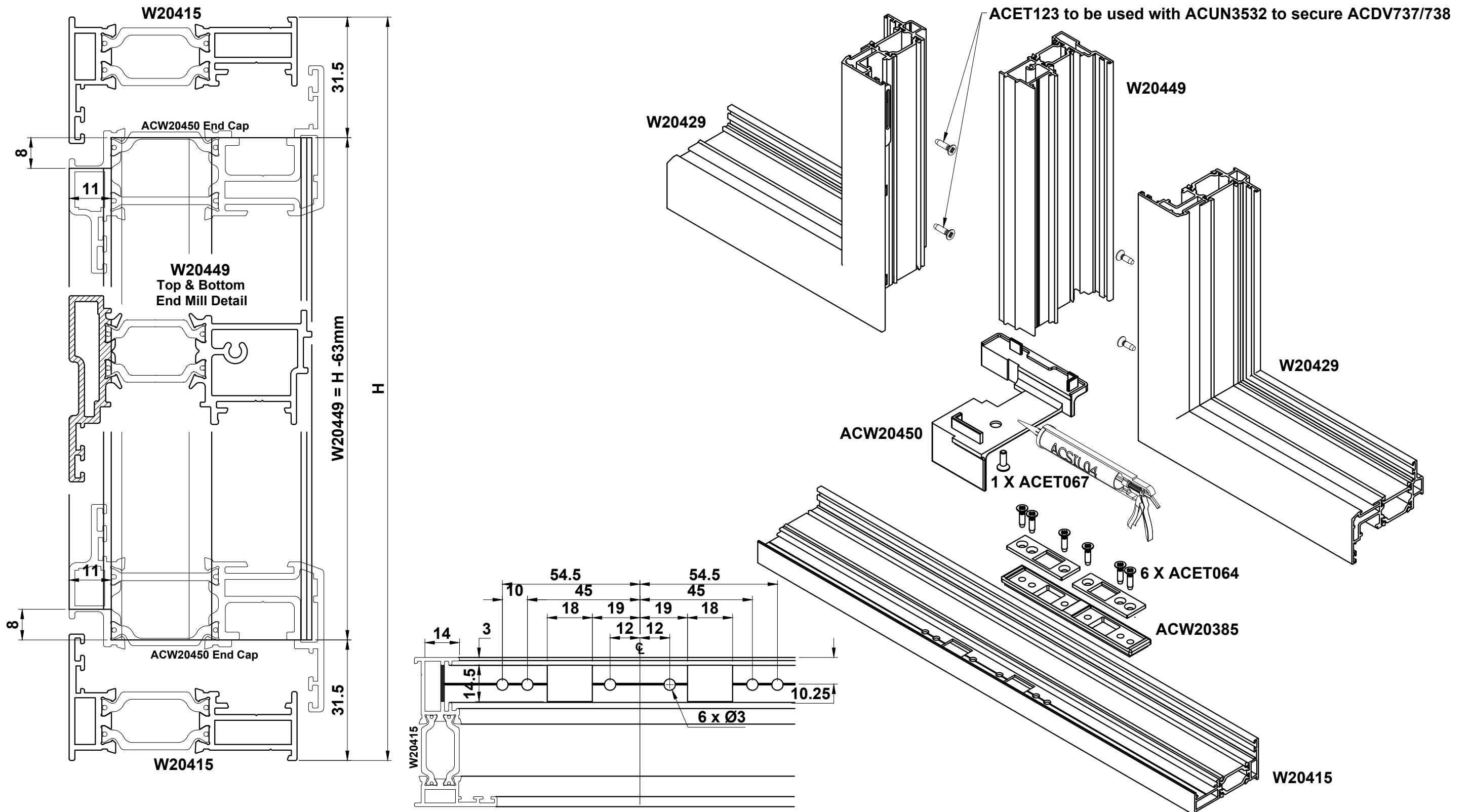
Handle Height with Shootbolt = 1050

Min sash size with handle height at 1050mm = 1881

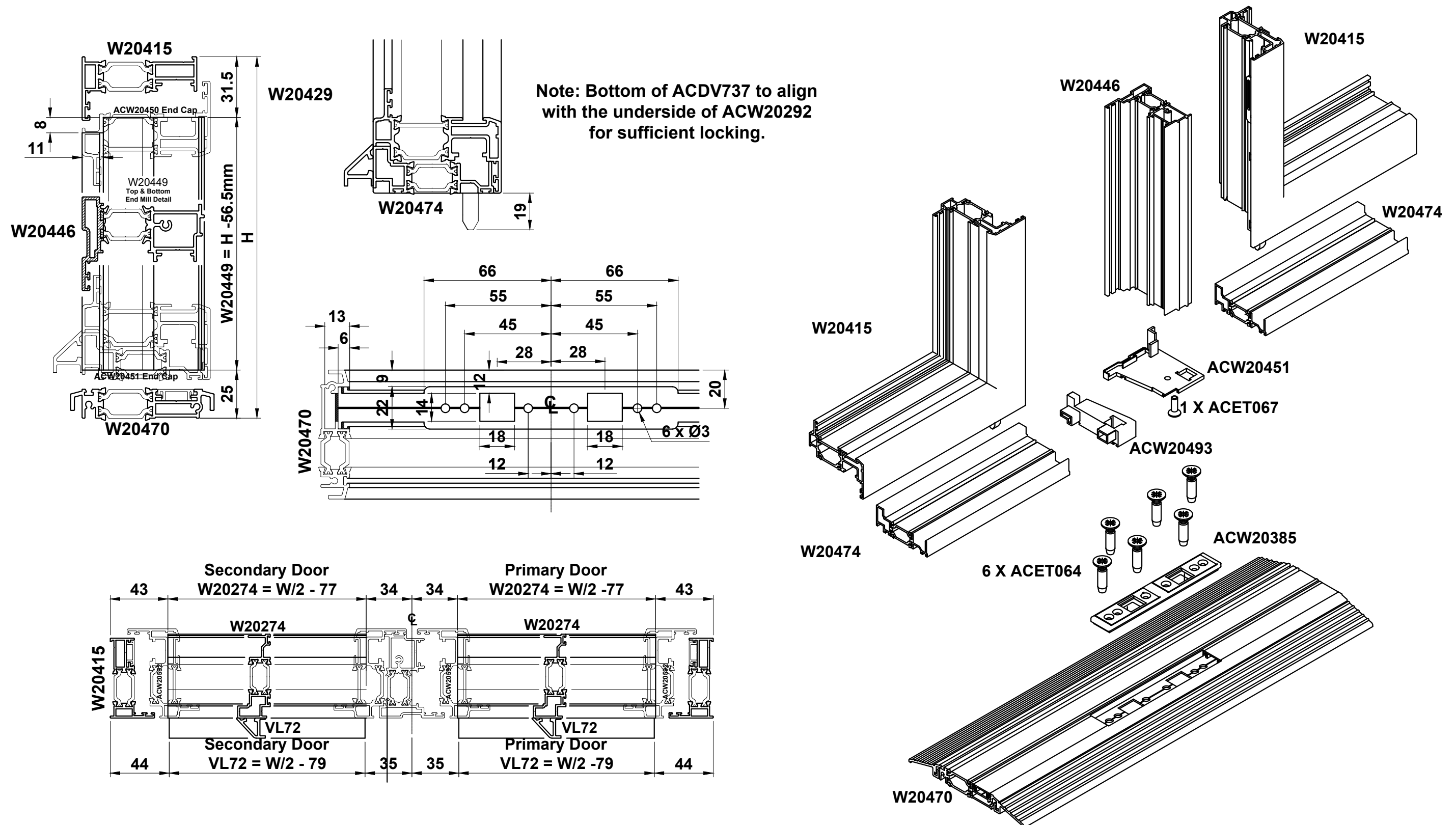
Max sash size with handle height at 1050mm = 2190 (without extension)

Do Not Scale From This Drawing

Open In Double Door Frame All Around (PAS24)

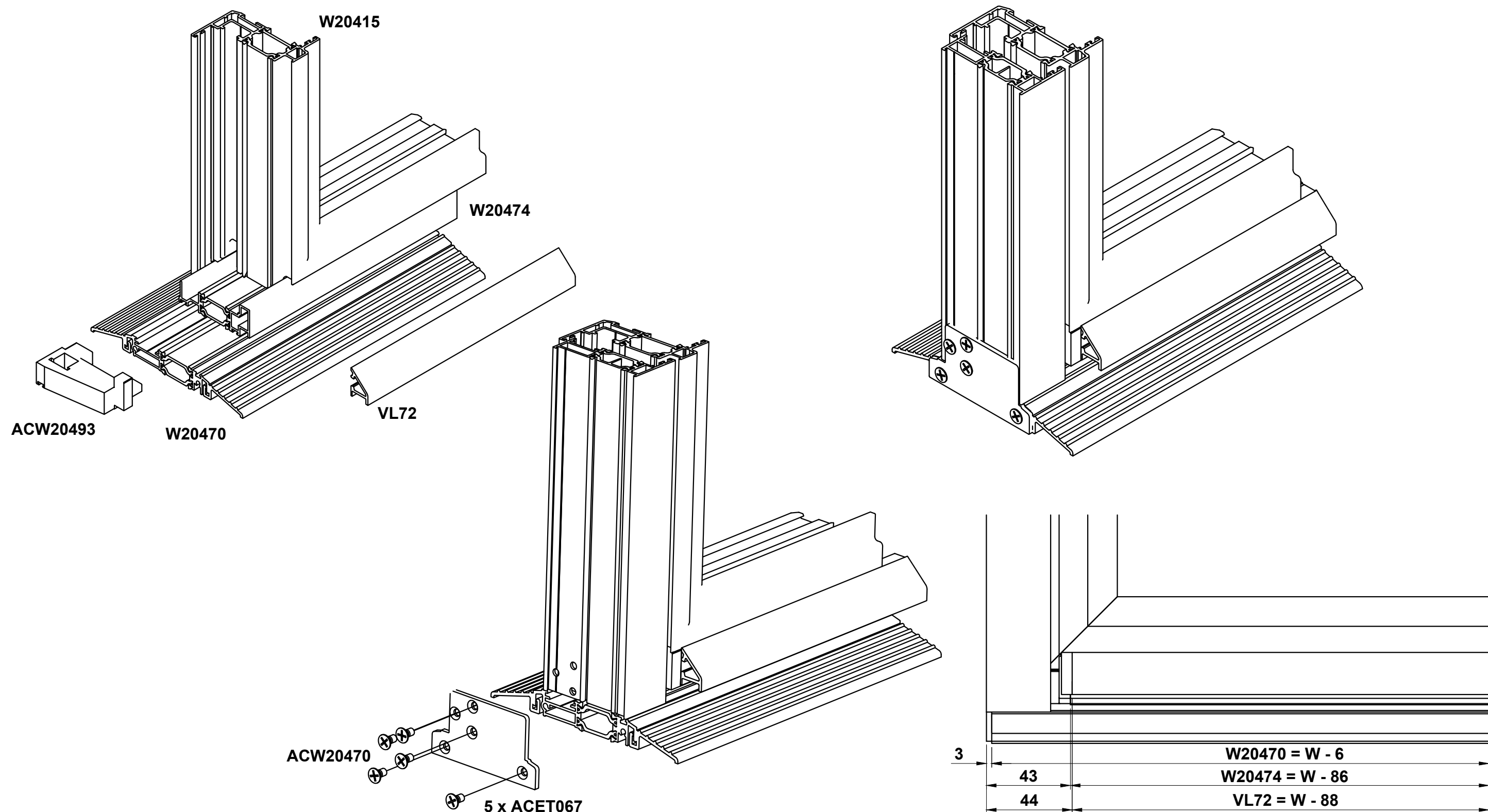


Open In Double Door Low Threshold (PAS24)



Do Not Scale From This Drawing

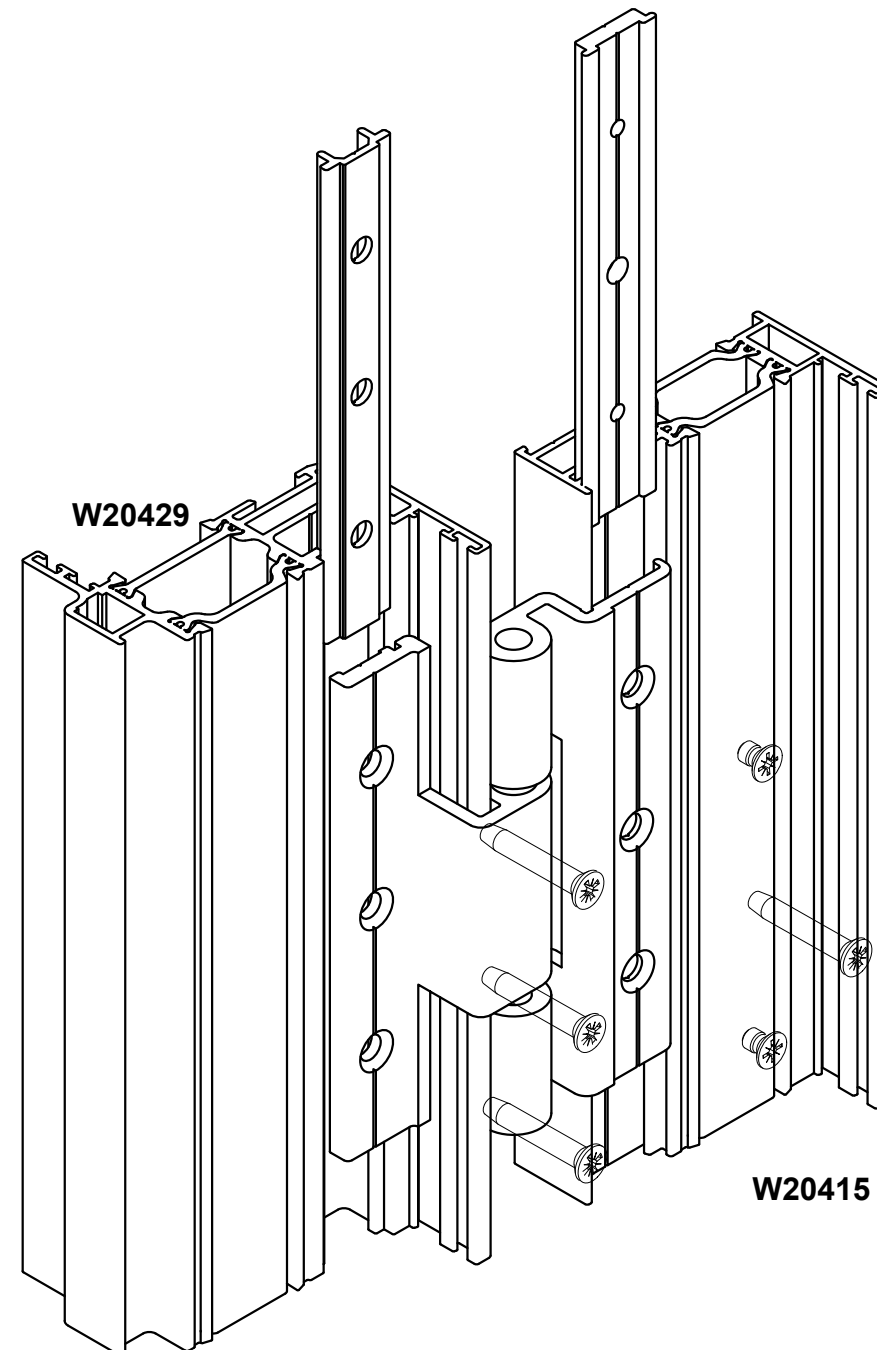
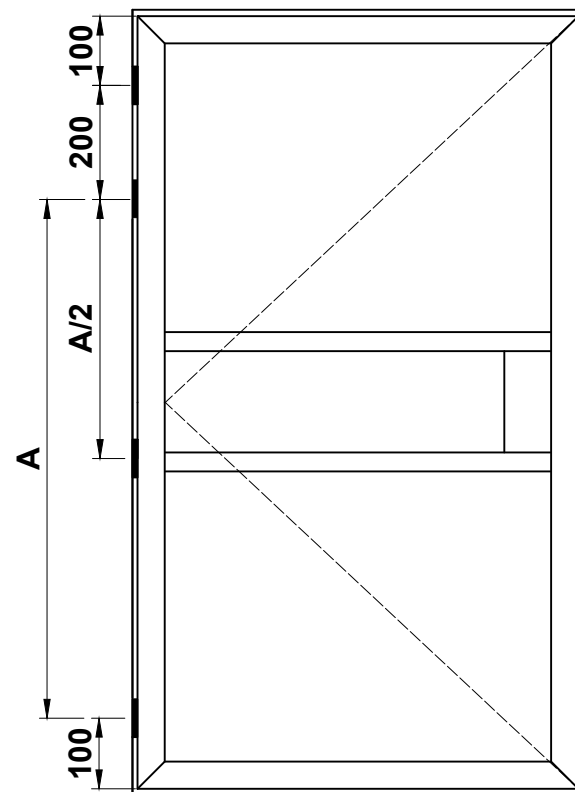
Open In Low Threshold Detail



Do Not Scale From This Drawing

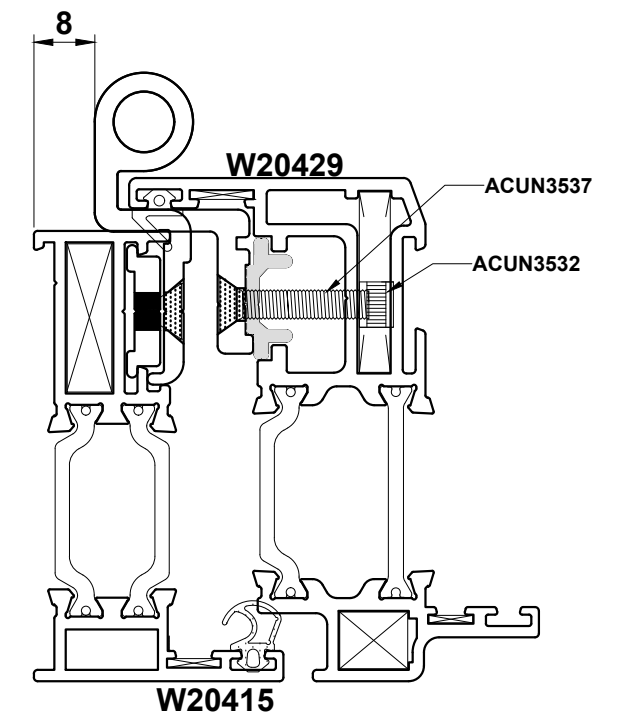
Open In Door Hinge Details

Recommended hinge positions



Assembly Instructions

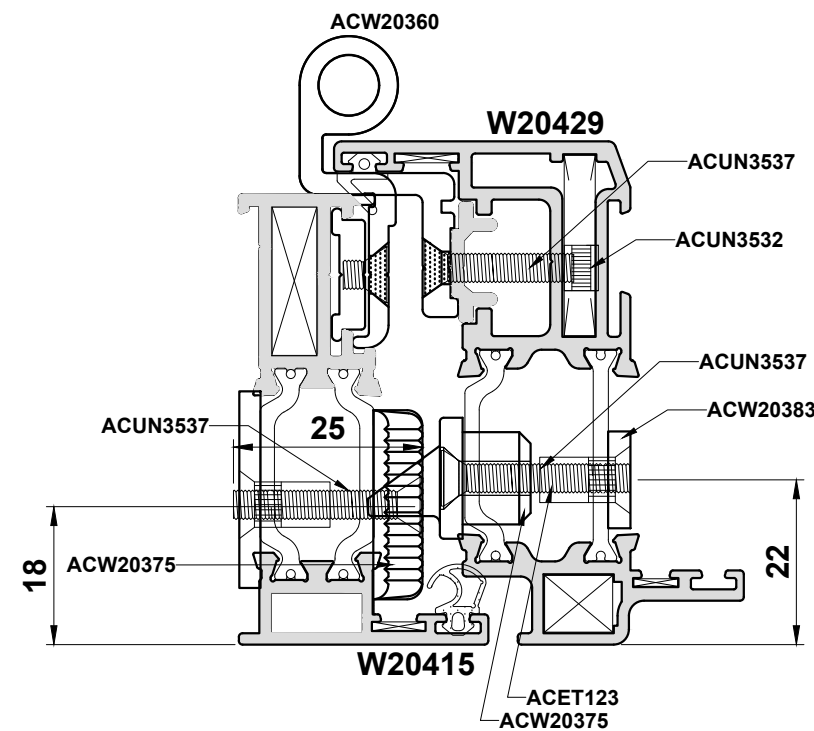
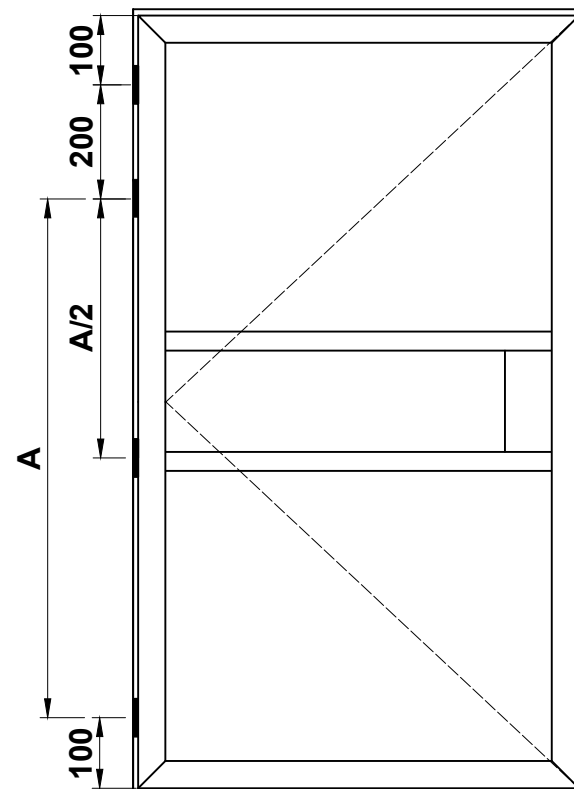
1. Slide Hinge Backplates into outerframe prior to crimping.
2. Locate each hinge in outerframe and clamp in position using 2No. M4 x 6mm Countersunk screws - supplied with ACW20164.
3. Fasten Hinge to Sash through the adaptor with 3No. M4 x 16mm Screws into the rivnuts - supplied with ACW20164
4. Once the sash requires no further adjustment fix the outerframe half of the hinge with 1 x No.8 x 16mm Pozi Csk Self Tapping screw.



Do Not Scale From This Drawing

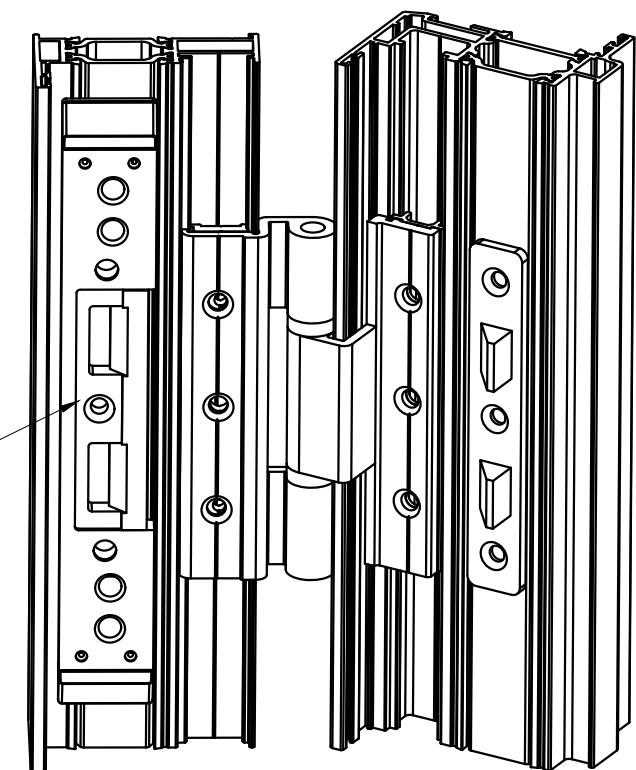
Open In Door Hinge Details (PAS24 Option)

Recommended hinge and hinge protector positions



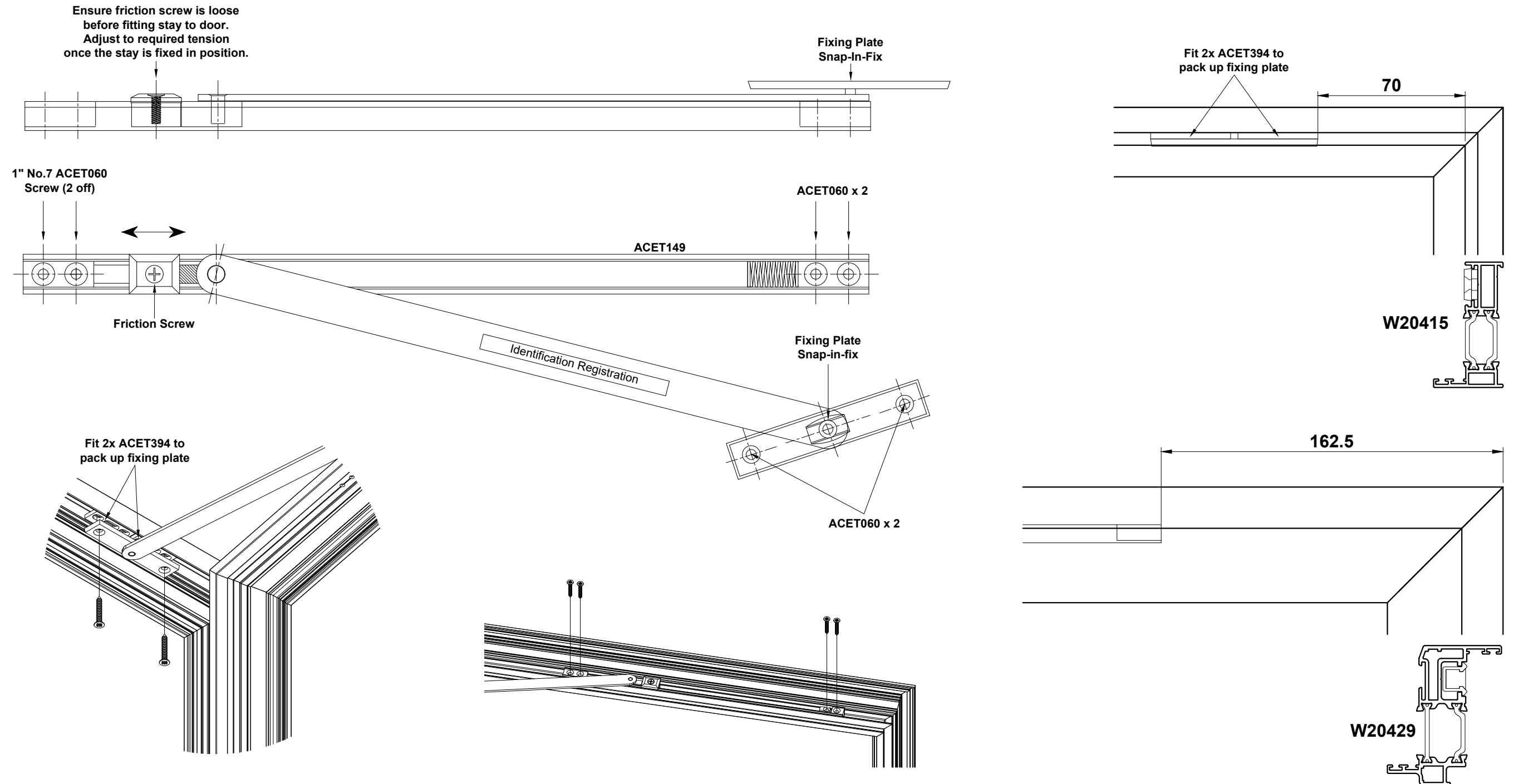
Assembly Instructions

1. Slide hinge back plates into W20415 and W20429 before crimping.
2. Use the hinge to park the hole positions on W20429. Drill a 4.5mm clearance holes for M4 CSK machine screws. Fasten hinges to W20429 with M4 machine screws into fixing plate
3. Fit W20429 into W20415 then fasten hinge to outer frame fixing hinges to W20415 frame back plates.
4. Once W20429 requires no further adjustment fix through center hinge hole to dead fix.



Do Not Scale From This Drawing

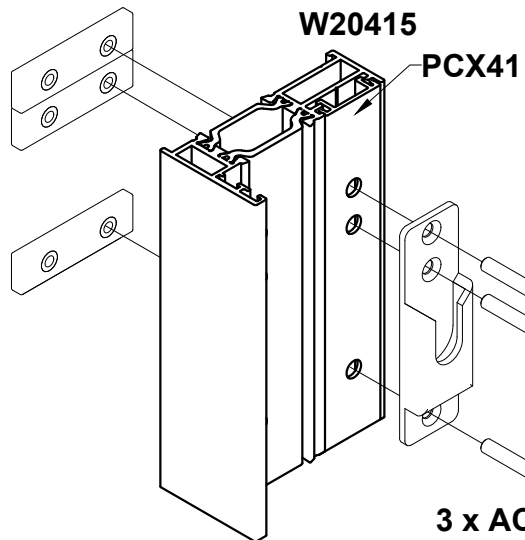
Open In 90° Restrictor Installation



Do Not Scale From This Drawing

PAS24 Open In Single Door Full Requirements

3 x ACW20382



W20415

PCX41

3 x ACET123

ACW20367 Roller Keep to be fixed through PCX41 and both skins of aluminum using ACET123 fixings and into ACW20382 reinforced M4 Fixing Plate.

ACW20367

Ø5

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Ø5

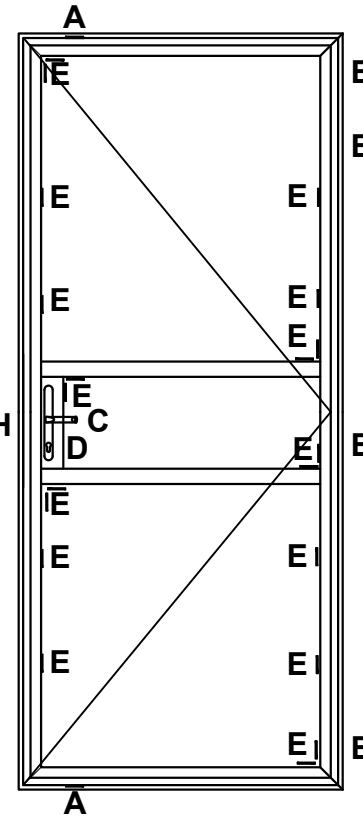
43

13

10.5

H

W20415



A

B

B

C

D

E

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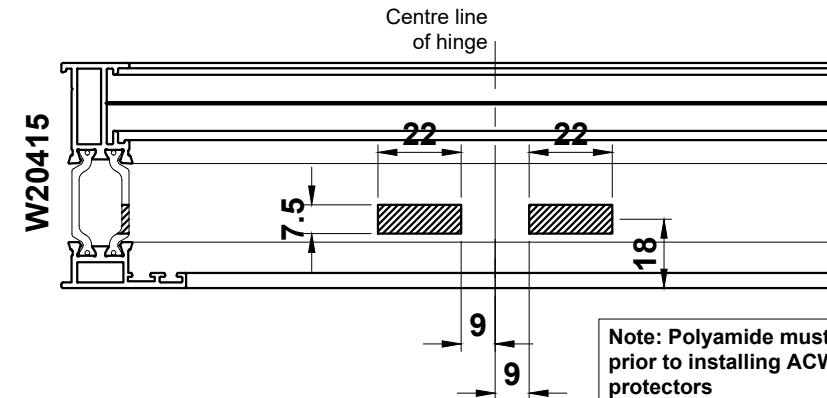
E

E

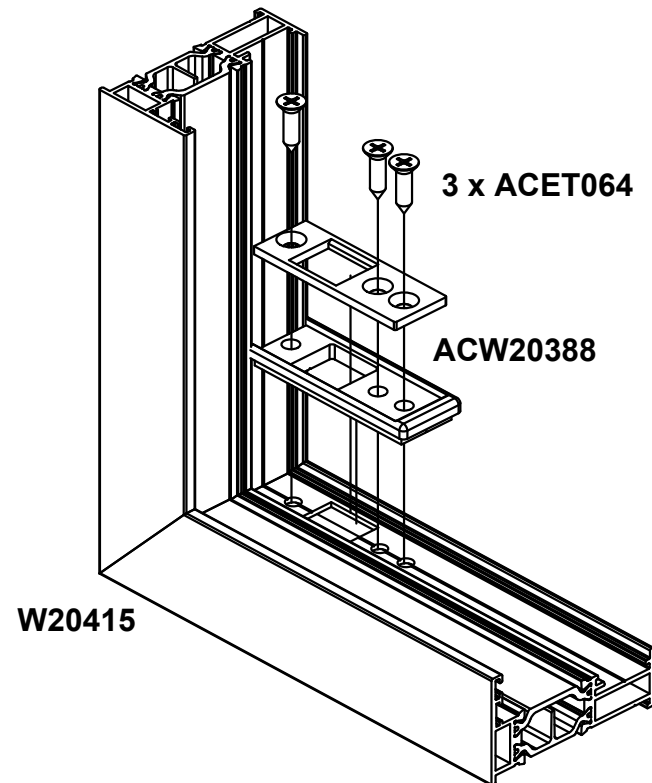
Single Door

Accessories Required to Achieve PAS24:2016

A	Guide Blocks	ACET380
B	Hinges / Hinge Protectors	ACW20164 / ACW20375
C	Lever/Lever Handle	ACSM001N
D	Cylinder	ACCY5025NKTTTS3
E	Glass Packer Positions	
	Centre Keep	ACW20166
	Roller Keep	ACW20367
	Lock	ACW20465
	Bottom Shootbolt / Keep	ACDV737 / ACW20388
	Top Shootbolt / Keep	ACDV738 / ACW20388



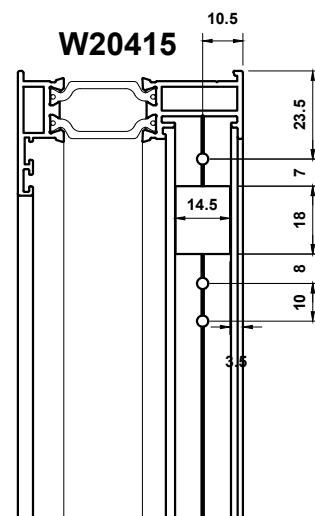
Note: Polyamide must be routed out prior to installing ACW20375 hinge protectors



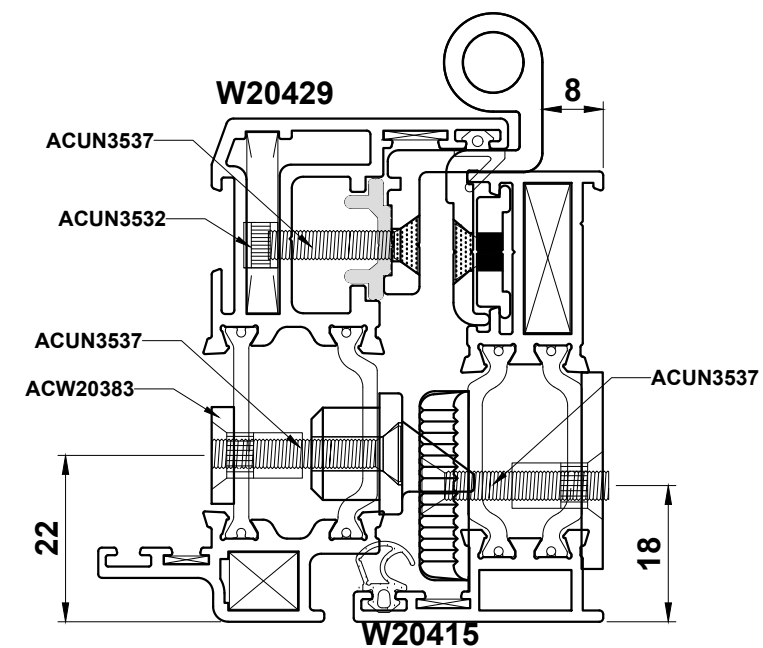
3 x ACET064

ACW20388

W20415

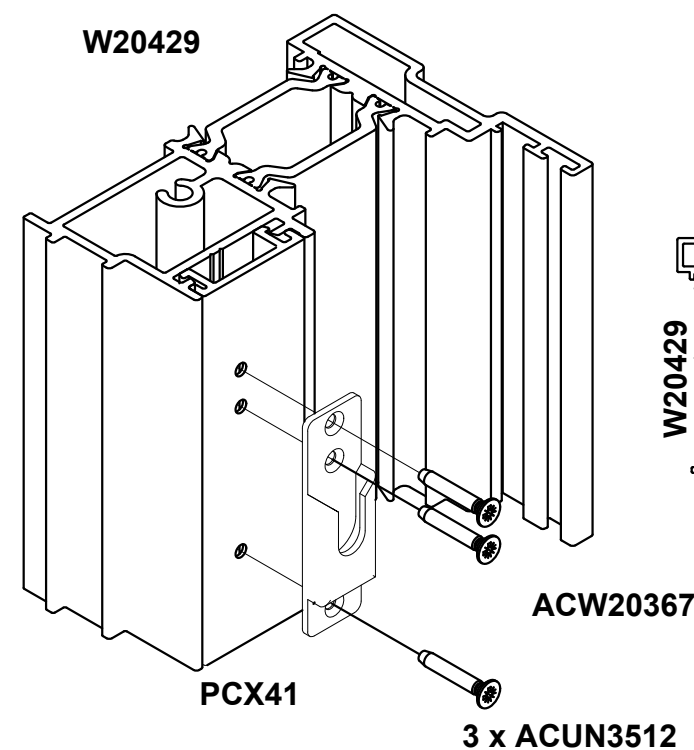


W20415



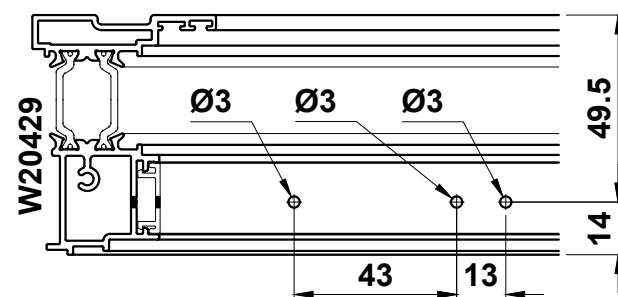
Do Not Scale From This Drawing

PAS24 Open In Double Door Full Requirements

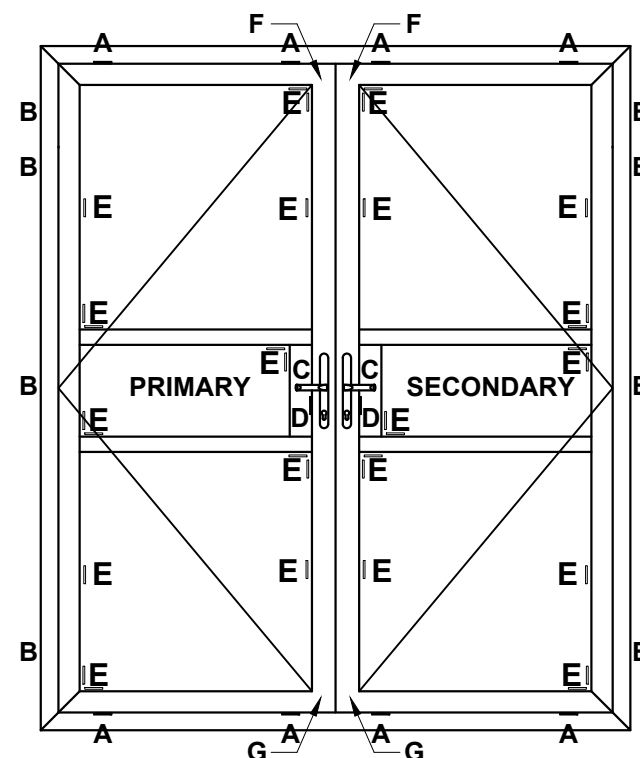


NOTE: ACW20367 Keeps to be countersunk for N° 8 self tapping screws

Note: Please see single door PAS24 page to see preparation for the hinge side of the double door.



ACW20367 Roller Keep to be fixed through PCX41 and into first skin of aluminum of W20429 using ACUN3512 fixings.

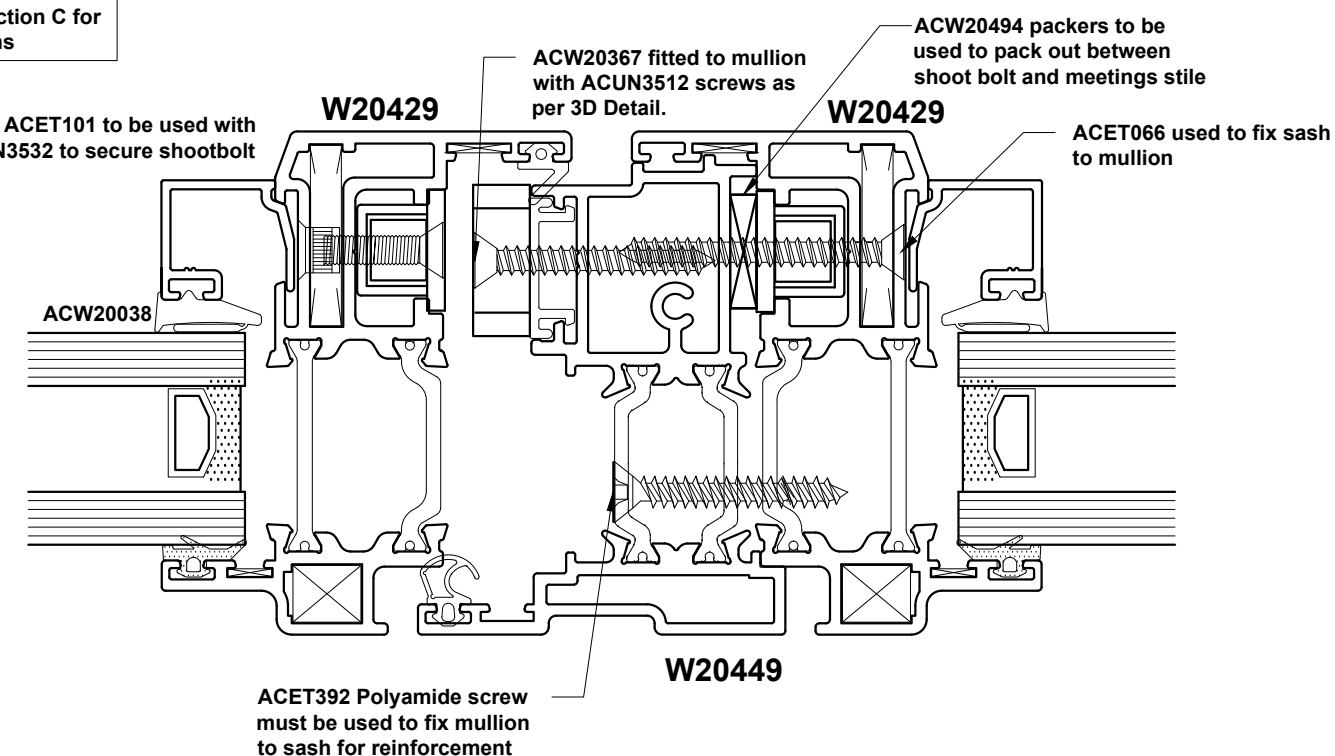


Refer back to Section C for details of sections

Double Door

Accessories Required to Achieve PAS24:2016

Guide Blocks	ACET380
Hinges/Hinge Protector	ACW20164/ACW20375
Lever/Lever Handle	ACSM001N
Cylinder	ACCY5025NKTTS3
Glass Packer Positions	
Top Shootbolt/Keep	ACDV738/ACW20385
Bottom Shootbolt/Keep	ACDV737/ACW20385
Centre Keep	ACW20166
Roller Keep	ACW20367
Primary Lock	ACW20465
Secondary Lock	ACW20466

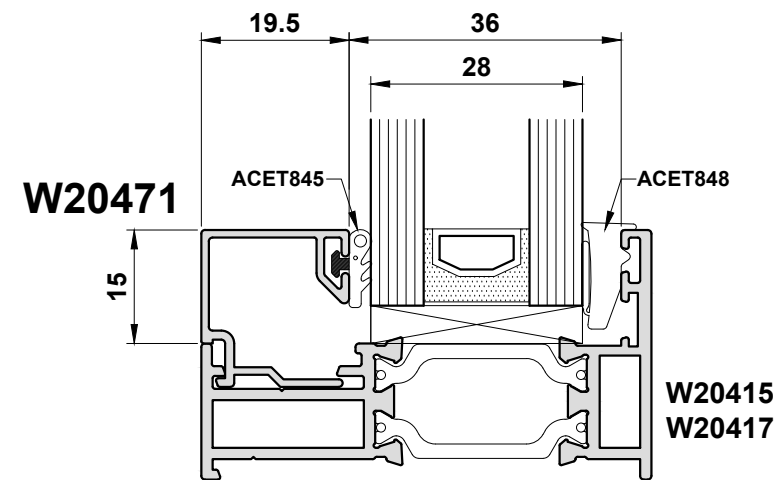


Do Not Scale From This Drawing

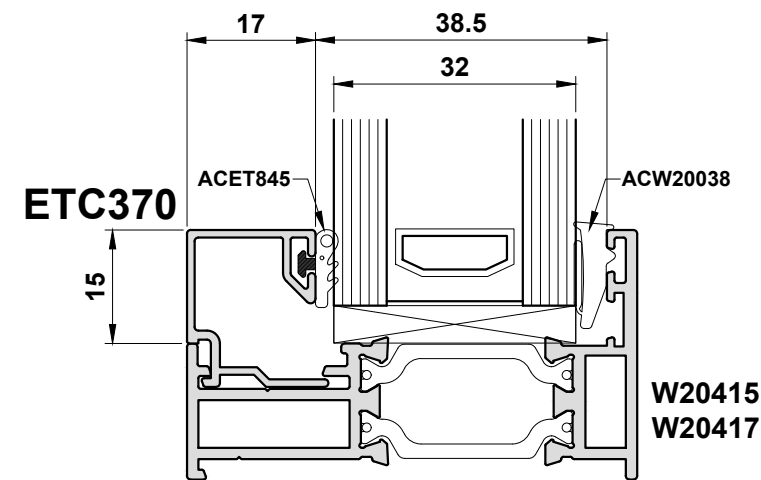
E	W	Construction Drawings	
		Glazing Chart.....	E46

Fixing Strap Guide

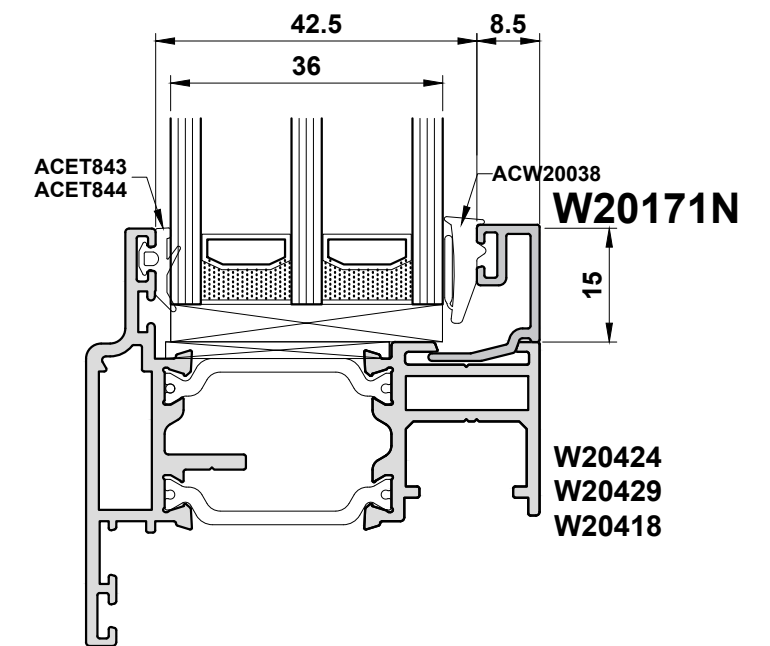
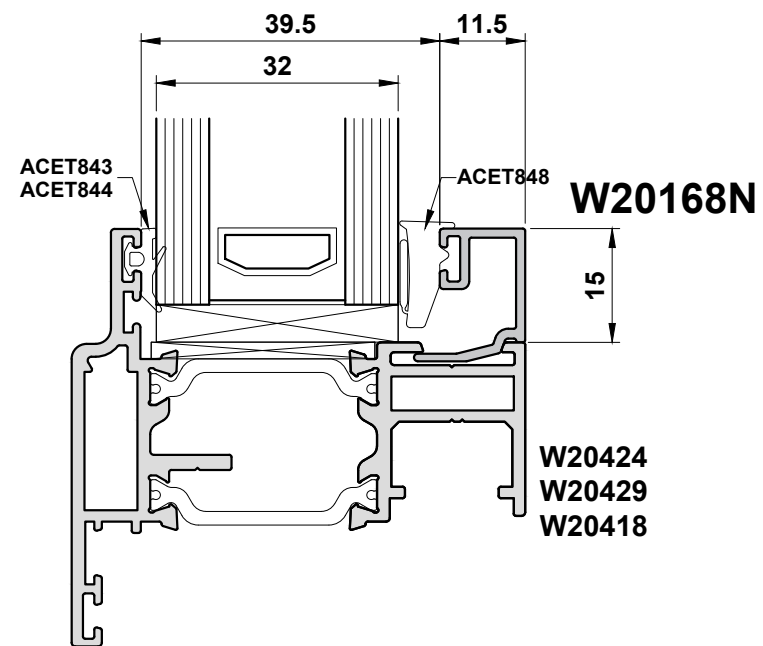
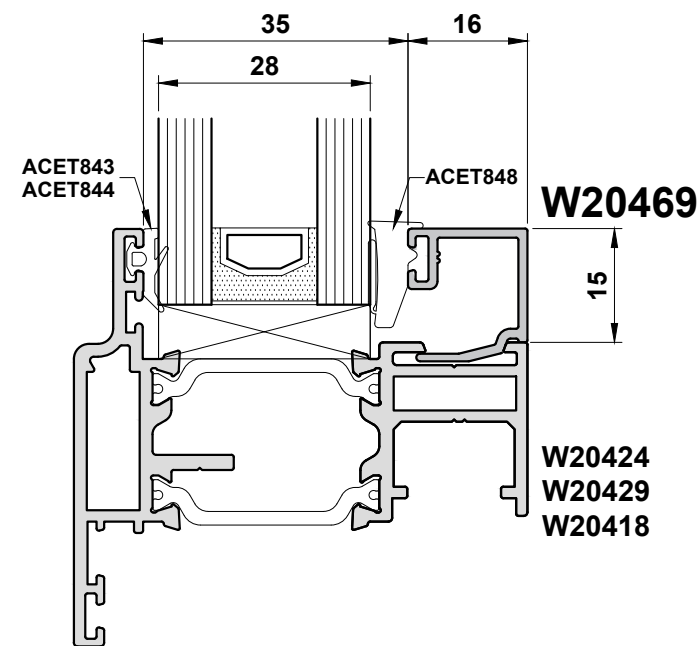
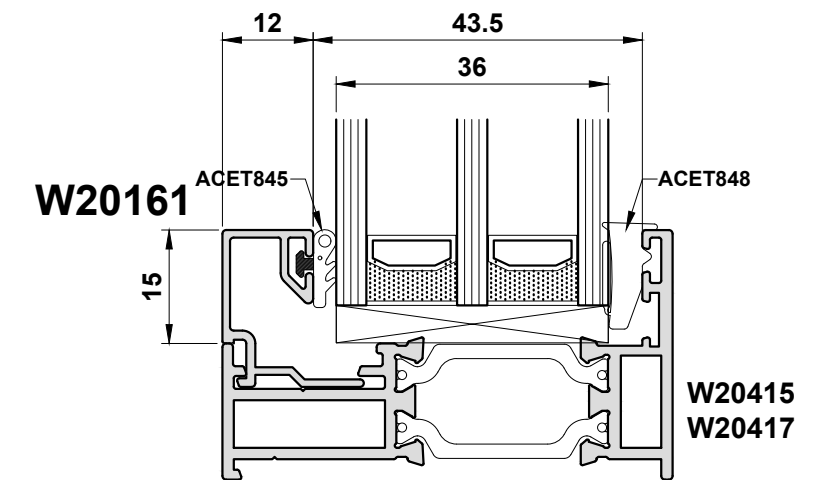
28mm Glazing



32mm Glazing



36mm Glazing



Do Not Scale From This Drawing

Section F



Sawing Tables

Cutting Information - Open Out Single Door With Frame All Around	F03
Cutting Information - Open Out Double Door With Frame All Around	F04
Cutting Information - Open Out Single Door With Low Threshold	F05
Cutting Information - Open Out Double Door With Low Threshold	F06
Cutting Information - Open In Single Door With Frame All Around	F07
Cutting Information - Open In Double Door With Frame All Around	F08
Cutting Information - Open In Single Door With Low Threshold	F09
Cutting Information - Open In Double Door With Low Threshold	F10

Section F

Cutting Information - Open Out Single Door With Frame All Around

Profiles

[illegible]

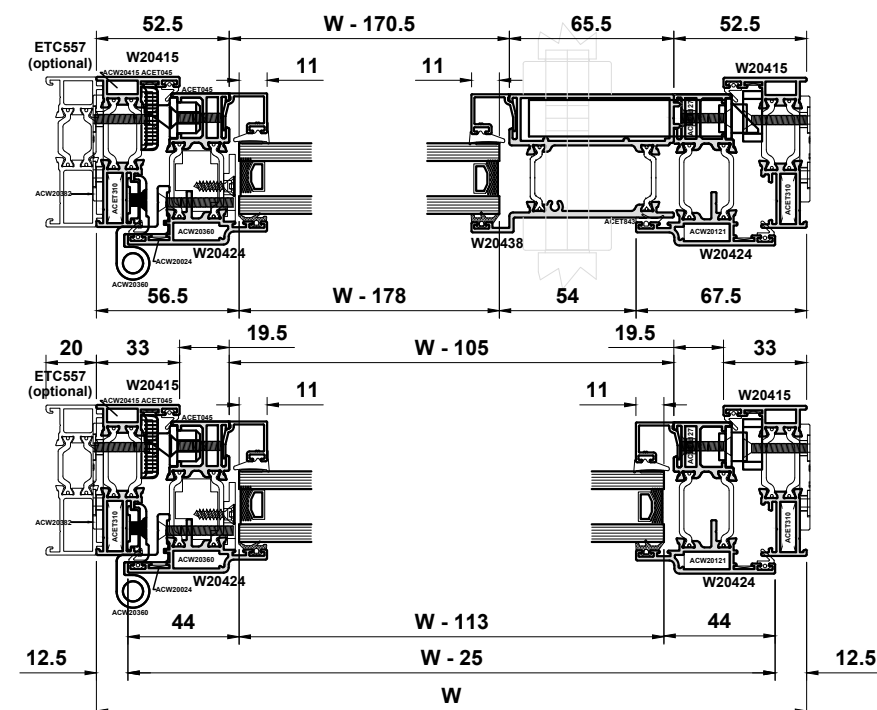
Accessories

[illegible]

Accessories

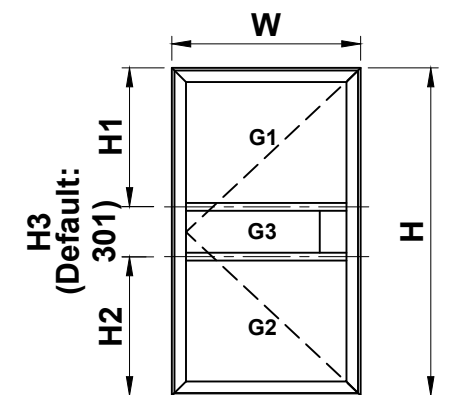
[illegible]

Accessories

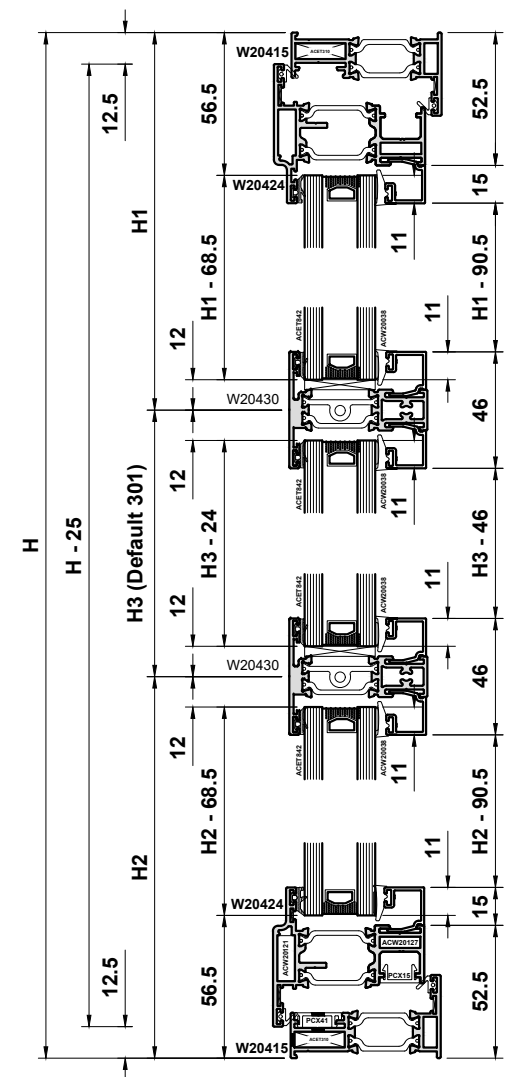
[illegible]

Glass

G1	1 x	W - 113 x H1 - 68.5
G2	1 x	W - 113 x H2 - 68.5
G3	1 x	W - 178 x H3 - 24



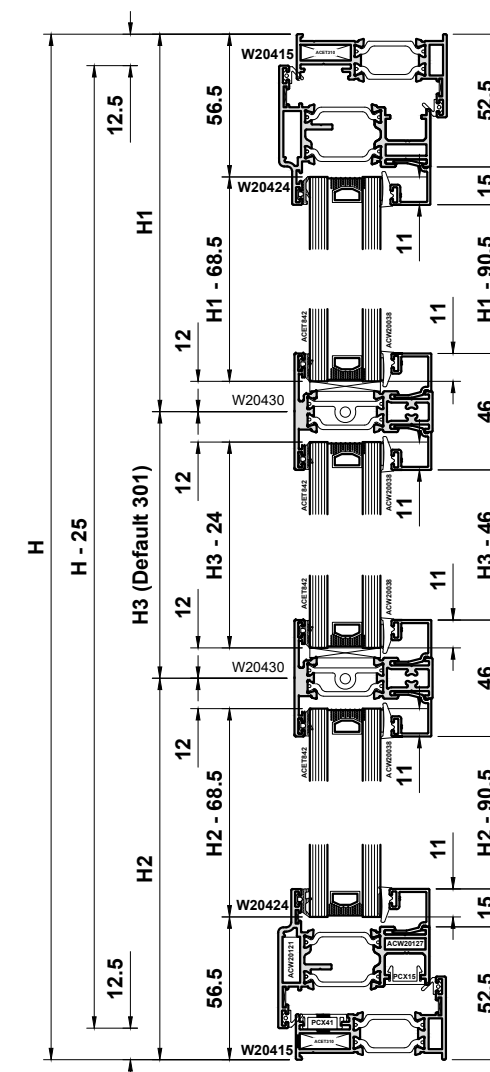
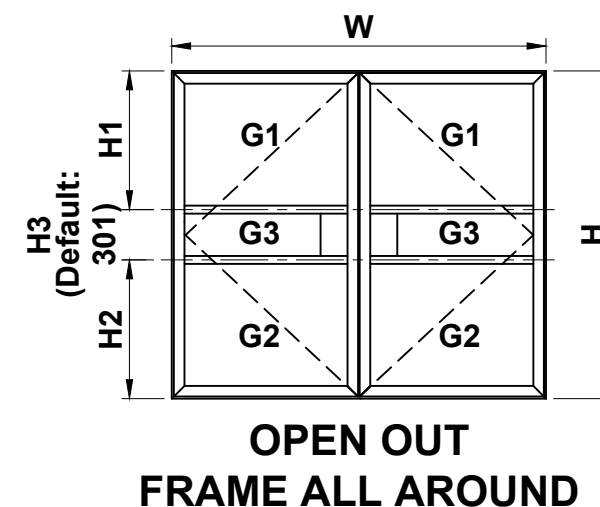
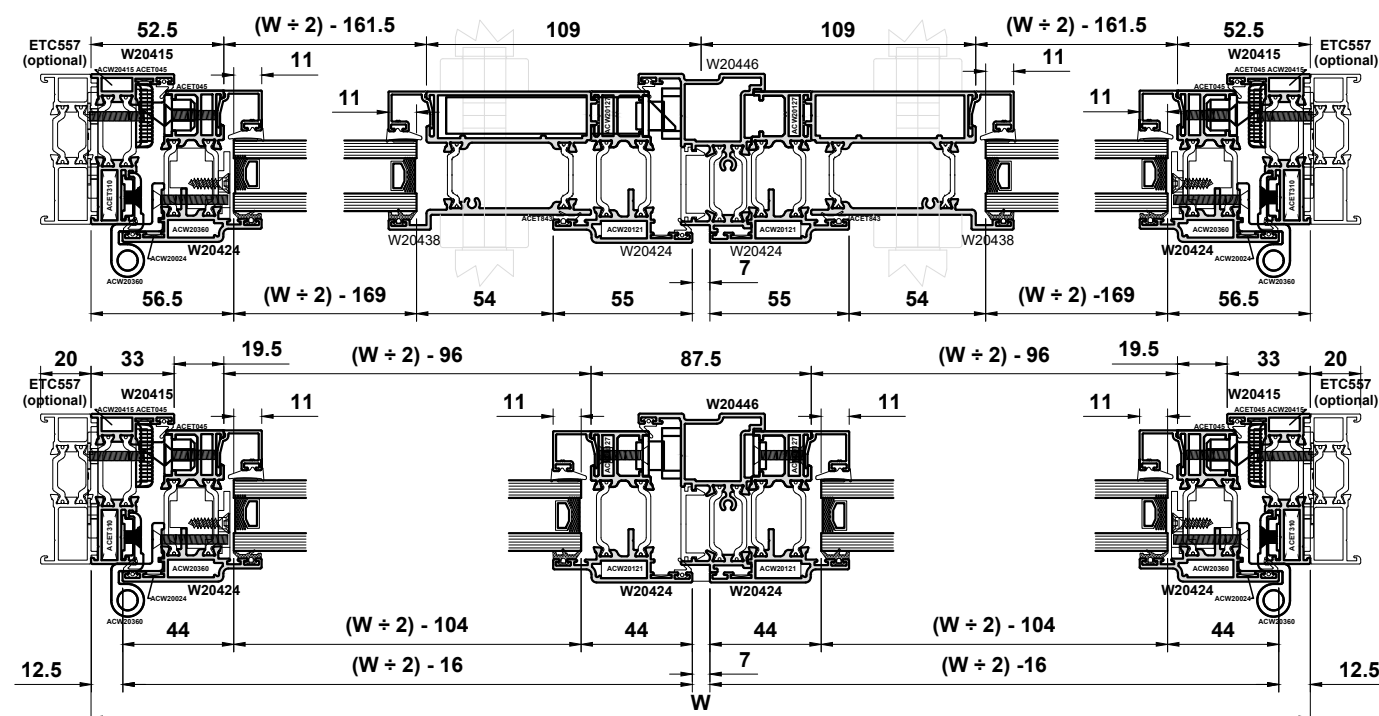
**OPEN OUT
FRAME ALL AROUND**



Do Not Scale From This Drawing

Accessories		
ACET062	Csk. Pozi Self Tapper	8
ACET064	Csk. Pozi Self Tapper	10
ACET066	Csk. Pozi Self Tapper	32
ACET070	Csk. Pozi Self Tapper	2
ACET123	Csk. Pozi Machine Screw	44
ACUN3512	Csk. Pozi Self Tapper	12
ACUN3532	M4 Thread Insert	44
ACUN3536	Csk. Pozi Machine Screw	24
ACUN3537	Csk. Pozi Machine Screw	40

Glass		
G1	2 x	$(W \div 2) - 104 \times H1 - 68.5$
G2	2 x	$(W \div 2) - 104 \times H2 - 68.5$
G3	2 x	$(W \div 2) - 169 \times H3 - 24$



Do Not Scale From This Drawing

Cutting Information - Open Out Single Door With Low Threshold

Profiles

W20415		2		H - 15
W20415		1		W
W20470		1		W - 6
EUD03		2		W
W20424		2		W - 25
W20424		2		H - 32.5
W20472		1		W - 89
W20430		2		W - 105
W20438		1		285
W20469		4		W - 105
W20469		2		W - 170.5
W20469		2		H1 - 90.5
W20469		2		H2 - 90.5
W20469		2		H3 - 46
PCX15		1		W - 60
PCX15		2		H - 67
PCX41		2		W - 36
PCX41		2		H - 33

Accessories

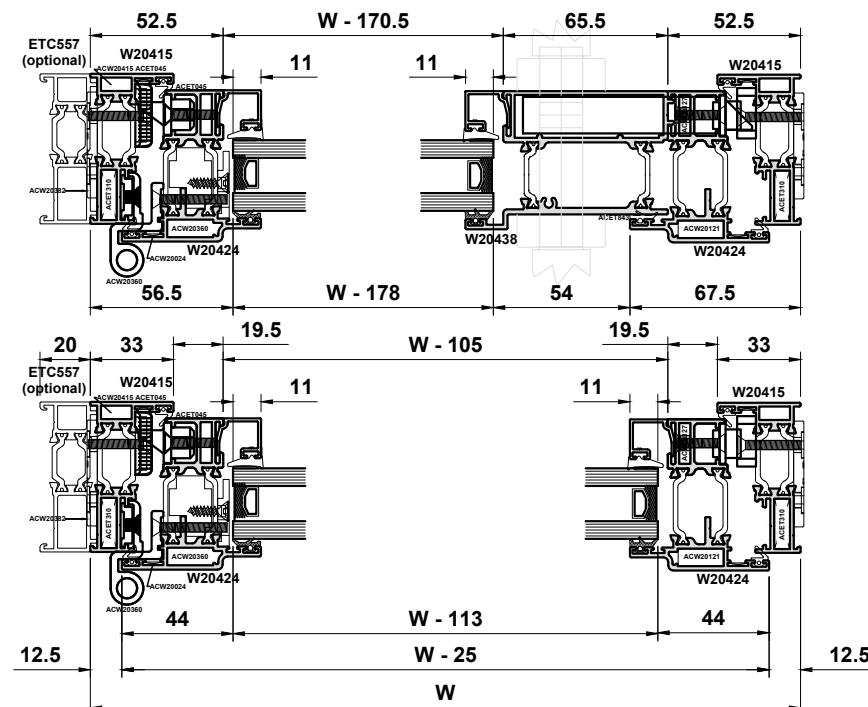
ACET045	Stainless Steel Chevron	2
ACET310	Outer Frame Cleat	2
ACW20415	Outer Frame Cleat	2
ACET160R	Outer Frame Seal	1 X (W-40) + 2 X (H-40)
ACW20066	Lock Keep	1
ACW20472	Single Keep	Pair
ACW20367	Roller Keep	4
ACW20382	M4 Fixing Plate	36
ACET234	Threshold Gasket	1 X W
ACW20470	W20470 End Caps	Pair

Accessories

ACET044	Stainless Steel Chevron	4
ACW20024	Stainless Steel Chevron	4
AC20360	Sash Cleat	4
ACW20127	Sash Cleat	4
ACET045	Sash Seal	2 X (W-25) + 2 X (H-25)
ACW20465	Primary Lock	1
ACDV737	Shootbolt (PAS24 Option)	1
ACDV738	Shootbolt (PAS24 Option)	1
ACSM001N	Lever Handle	Pair
ACCY5025	Cylinder	1
ACW20375	Hinge Protector	4
ACW20360	Hinge Kit	4
ACET842	E Gasket	6 X (W-110) + 2 X (H-110)
ACET848	Wedge Gasket	6 X (W-110) + 2 X (H-110)
ACGSL045	Drainage Cover Cap	2
ACW20472	W20472 End Caps	Pair
ACGSL045	Drainage Cap	2

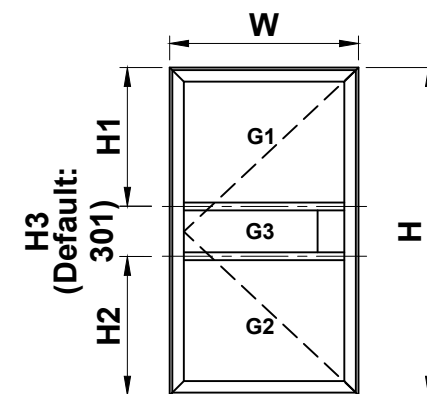
Accessories

ACET062	Csk. Pozi Self Tapper	4
ACET066	Csk. Pozi Self Tapper	6
ACET067	Csk. Pozi Self Tapper	10
ACET123	Csk. Pozi Machine Screw	55
ACUN3512	Csk. Pozi Self Tapper	5
ACUN3532	M4 Thread Insert	32
ACUN3536	Csk. Pozi Machine Screw	12
ACUN3537	Csk. Pozi Machine Screw	20

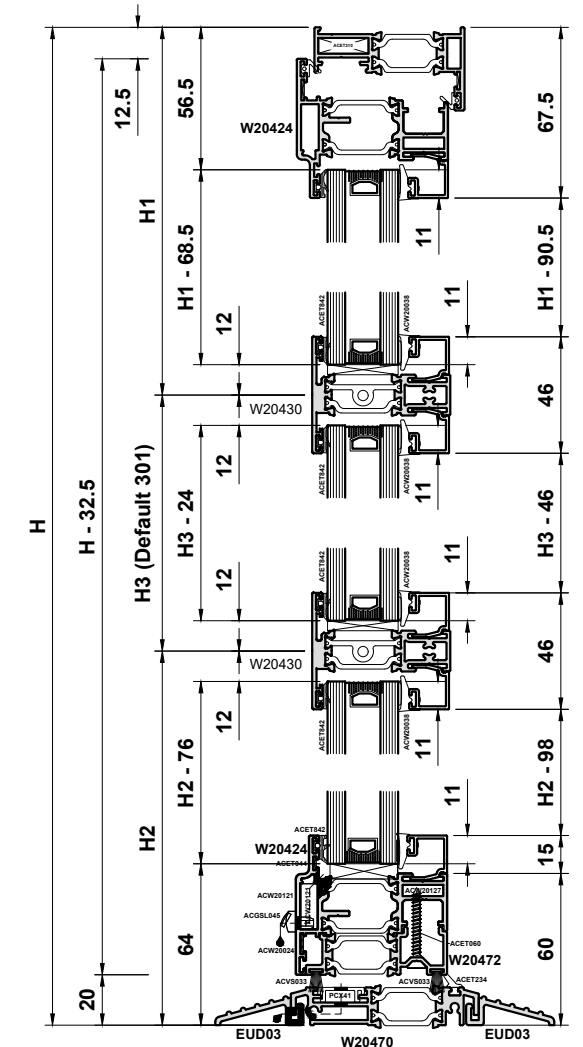


Glass

G1	1 x	W - 113 x H1 - 68.5
G2	1 x	W - 113 x H2 - 76
G3	1 x	W - 178 x H3 - 24



**OPEN OUT
LOW THRESHOLD**



Do Not Scale From This Drawing

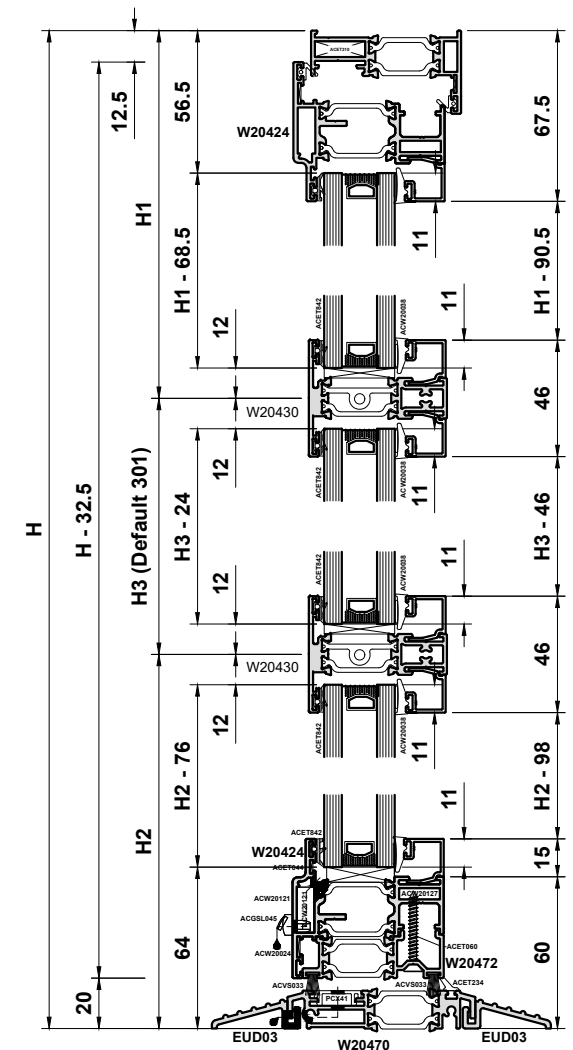
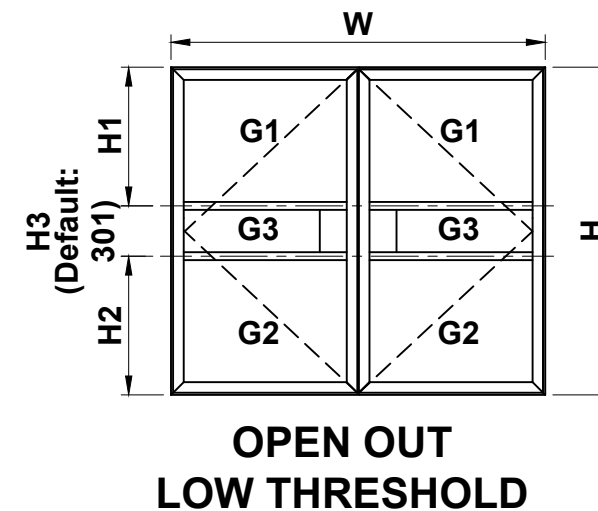
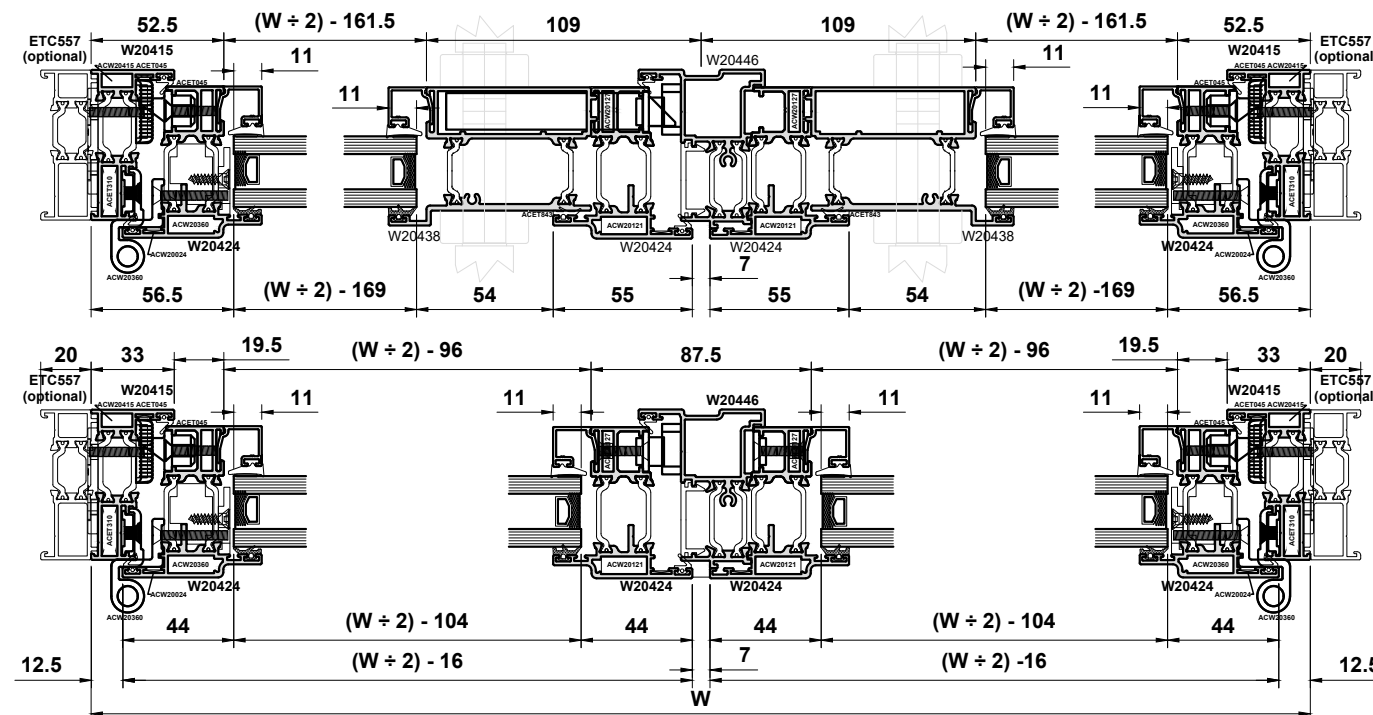
W20415		2		H - 15
W20415		1		W
W20470		1		W - 6
EUD03		2		W
W20424		4		(W÷2) - 16
W20424		4		H - 32.5
W20446		1		H - 55
W20472		1		(W÷2) - 66
W20472		1		(W÷2) - 79
W20430		4		(W÷2) - 96
W20438		2		285
W20469		8		(W÷2) - 96
W20469		4		(W÷2) - 161.5
W20469		4		H1 - 90.5
W20469		4		H2 - 90.5
W20469		4		H3 - 46
PCX15		2		W - 60
PCX15		4		H - 67
PCX41		2		W - 36
PCX41		2		H - 33
PCX53		1		H - 55

[illegible]

ACET044	Stainless Steel Chevron	8
ACW20024	Stainless Steel Chevron	8
AC20360	Sash Cleat	8
ACW20127	Sash Cleat	8
ACET160R	Sash Seal	2 X (W-25) + 4 X (H-25)
ACW20465	Primary Lock	1
ACW20466	Secondary Lock	1
ACDV737	Shootbolt (PAS24 Option)	2
ACDV738	Shootbolt (PAS24 Option)	2
ACSM001N	Lever Handle	2 Pairs
ACCY5025	Cylinder	2
ACW20066	Lock Keep	1
ACW20367	Roller Keep	4
ACW20375	Hinge Protector	8
ACW20360	Hinge Kit	8
ACET842	E Gasket	6 X (W-110) + 4 X (H-110)
ACW20038	Wedge Gasket	6 X (W-110) + 4 X (H-110)
ACGSL045	Drainage Cover Cap	2
ACW20472	W20472 End Caps	2 Pairs
ACW20448	W20446 End Caps	Pair
ACGSL045	Drainage Cap	4

ACET062	Csk. Pozi Self Tapper	8
ACET064	Csk. Pozi Self Tapper	10
ACET066	Csk. Pozi Self Tapper	32
ACET067	Csk. Pozi Self Tapper	10
ACET070	Csk. Pozi Self Tapper	2
ACET123	Csk. Pozi Machine Screw	44
ACUN3512	Csk. Pozi Self Tapper	22
ACUN3532	M4 Thread Insert	44
ACUN3536	Csk. Pozi Machine Screw	24
ACUN3537	Csk. Pozi Machine Screw	40

G1	2 x	$(W \div 2) - 104 \times H1 - 68.5$
G2	2 x	$(W \div 2) - 104 \times H2 - 76$
G3	2 x	$(W \div 2) - 169 \times H3 - 24$



PAGE F06

ISSUED: NOVEMBER 2023

Cutting Information - Open In Single Door With Frame All Around

Profiles

W20415		2		H
W20415		2		W
W20175		1		W - 36
W20429		2		W - 25
W20429		2		H - 25
W20430		2		W - 104
W20438		1		285
W20469		4		W - 104
W20469		2		W - 169.5
W20469		2		H1 - 90
W20469		2		H2 - 90
W20469		2		H3 - 46
PCX15		2		W - 58
PCX15		2		H - 58
PCX41		2		W - 36
PCX41		2		H - 36

Accessories

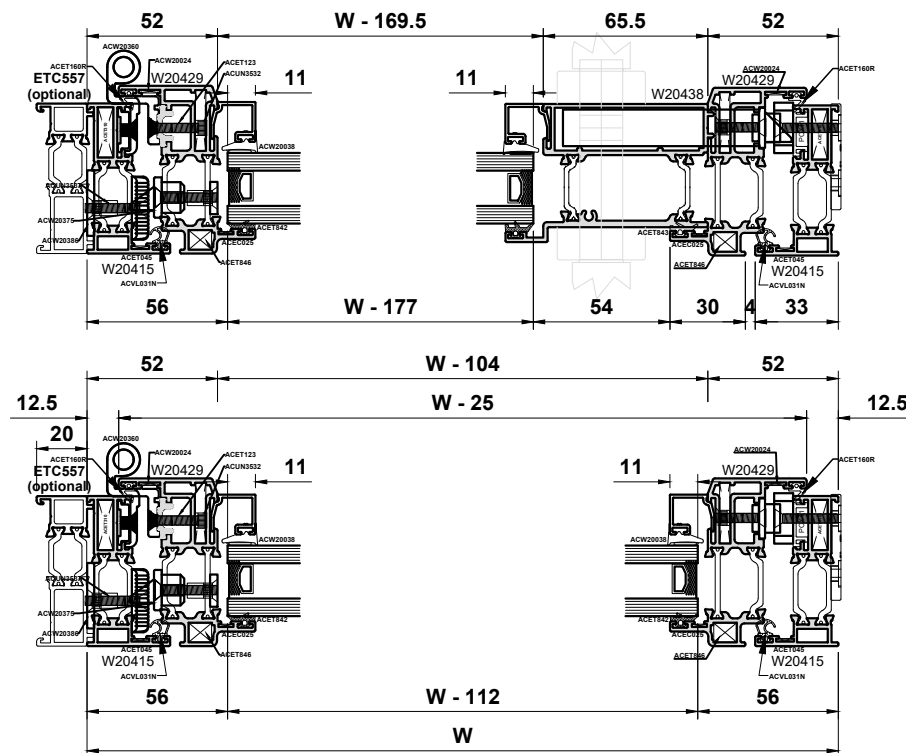
ACET045	Stainless Steel Chevron	4
ACET310	Outer Frame Cleat	4
ACW20415	Outer Frame Cleat	4
ACVL031N	Outer Frame Seal	2 X (W-40) + 2 X (H-40)
ACW20166	Lock Keep	1
ACW20388	Single Keep	Pair
ACW20367	Roller Keep	4
ACET380	Run Up Block	2
ACW20386	M4 Fixing Plate	36
ACGSL045	Drainage Cap	2

Accessories

ACW20024	Stainless Steel Chevron	4
ACW20025	Stainless Steel Chevron	4
ACET846	Sash Cleat	4
ACW20429	Sash Cleat	4
ACET106R	Sash Seal	2 X (W-25) + 4 X (H-25)
ACW20465	Primary Lock	1
ACDV737	Shootbolt (PAS24 Option)	1
ACDV738	Shootbolt (PAS24 Option)	1
ACSM001N	Lever Handle	Pair
ACCY5025	Cylinder	1
ACW20375	Hinge Protector	4
ACW20164	Hinge Kit	4
ACET842	E Gasket	6 X (W-110) + 2 X (H-110)
ACET848	Wedge Gasket	6 X (W-110) + 2 X (H-110)

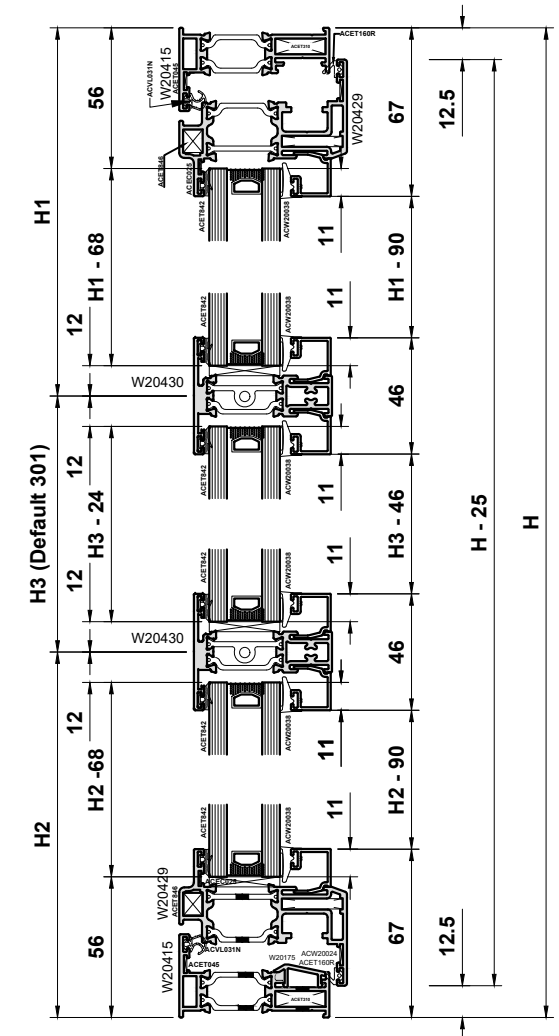
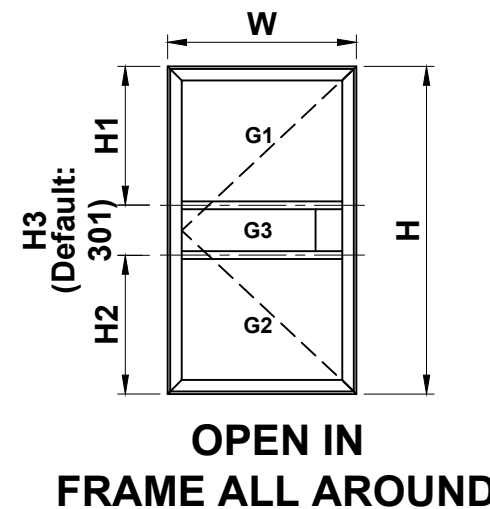
Accessories

ACET062	Csk. Pozi Self Tapper	4
ACET064	Csk. Pozi Self Tapper	6
ACET066	Csk. Pozi Self Tapper	6
ACET123	Csk. Pozi Machine Screw	32
ACUN3532	M4 Thread Insert	32
ACUN3537	Csk. Pozi Machine Screw	44



Glass

G1	1 x	W - 112 x H1 - 68
G2	1 x	W - 112 x H2 - 68
G3	1 x	W - 177 x H3 - 24



Do Not Scale From This Drawing

Cutting Information - Open In Double Door With Frame All Around

Profiles

W20415		2		H
W20415		2		W
W20175		1		W - 36
W20429		4		(W÷2) - 16.5
W20429		4		H - 25
W20449		1		H - 63
W20430		4		(W÷2) - 95
W20438		2		285
W20469		8		(W÷2) - 95
W20469		4		W - 169.5
W20469		4		H1 - 90
W20469		4		H2 - 90
W20469		4		H3 - 46
PCX15		4		(W÷2) - 49.5
PCX15		4		H - 58
PCX41		2		W - 36
PCX41		2		H - 36
PCX54		1		H - 63

Accessories

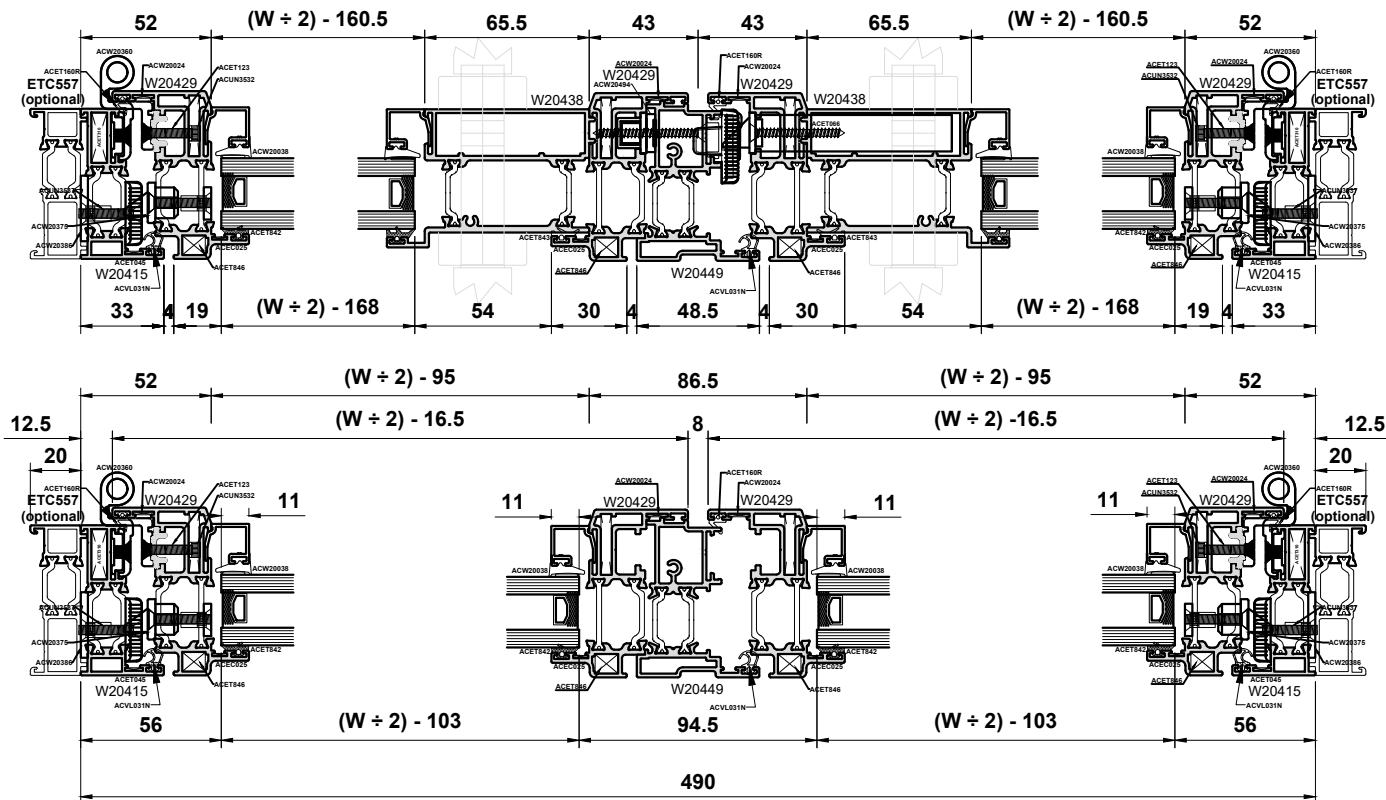
ACET045	Stainless Steel Chevron	4
ACET310	Outer Frame Cleat	4
ACW20415	Outer Frame Cleat	4
ACVL031N	Outer Frame Seal	2 X (W-40) + 2 X (H-40)
ACW20385	Shoot Bolt Keep	2
ACET380	Run Up Block	4
ACW20386	M4 Fixing Plate	40
ACGSL045	Drainage Cap	4

Accessories

ACW20024	Stainless Steel Chevron	8
ACW20025	Stainless Steel Chevron	8
ACET846	Sash Cleat	8
ACW20429	Sash Cleat	8
ACET160R	Sash Seal	2 X (W-25) + 4 X (H-25)
ACW20465	Primary Lock	1
ACW20466	Secondary Lock	1
ACDV737	Shootbolt (PAS24 Option)	2
ACDV738	Shootbolt (PAS24 Option)	2
ACSM001N	Lever Handle	2 Pairs
ACCY5025	Cylinder	2
ACW20166	Lock Keep	1
ACW20367	Roller Keep	4
ACW20375	Hinge Protector	8
ACW20164	Hinge Kit	8
ACET842	E Gasket	6 X (W-110) + 4 X (H-110)
ACET848	Wedge Gasket	6 X (W-110) + 4 X (H-110)
ACW20450	W20449 End Caps	Pair

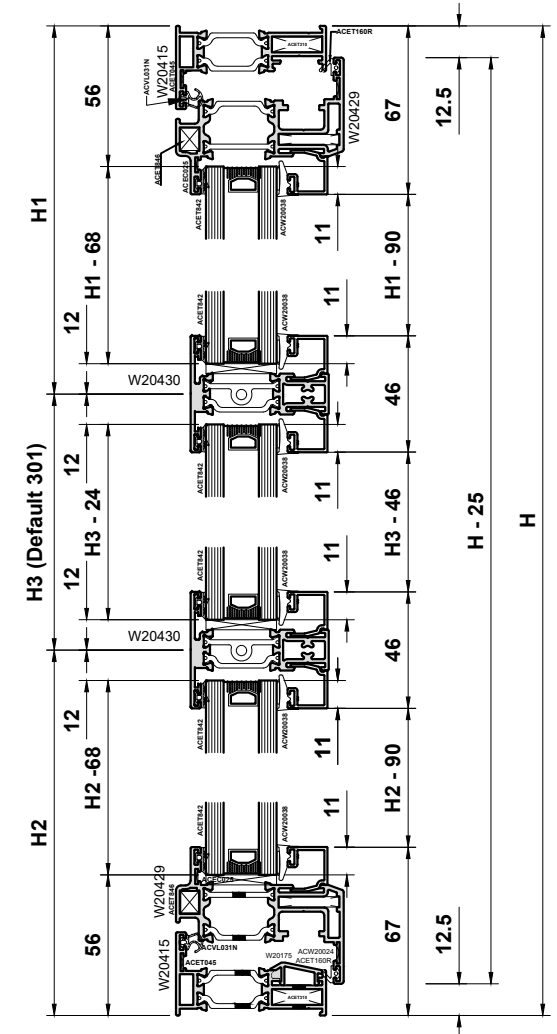
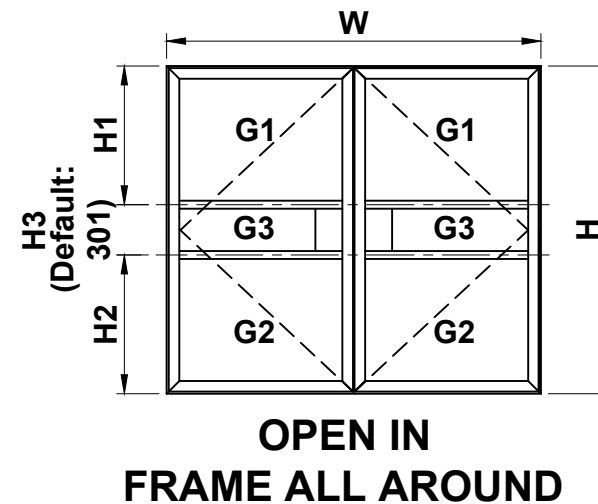
Accessories

ACET062	Csk. Pozi Self Tapper	8
ACET064	Csk. Pozi Self Tapper	12
ACET066	Csk. Pozi Self Tapper	17
ACET070	Csk. Pozi Self Tapper	2
ACET392	Polyamide Screw	5
ACET123	Csk. Pozi Machine Screw	20
ACUN3512	Csk. Pozi Self Tapper	12
ACUN3532	M4 Thread Insert	44
ACUN3537	Csk. Pozi Machine Screw	88



Glass

G1	2 x	(W÷2) - 103 x H1 - 68
G2	2 x	(W÷2) - 103 x H2 - 68
G3	2 x	(W÷2) - 168 x H3 - 24



Do Not Scale From This Drawing

Cutting Information - Open In Single Door With Low Threshold

Profiles

W20415		2		H - 15
W20415		1		W
W20470		1		W - 6
EUD03		2		W
W20429		2		W - 25
W20429		2		H - 32.5
W20474		1		W - 86
W20430		2		W - 104
W20438		1		285
W20469		4		W - 104
W20469		2		W - 169.5
W20469		2		H1 - 90
W20469		2		H2 - 97
W20469		2		H3 - 46
VL72		1		W - 88
PCX15		2		W - 58
PCX15		2		H - 65.5
PCX41		2		W - 36
PCX41		2		H - 33

Accessories

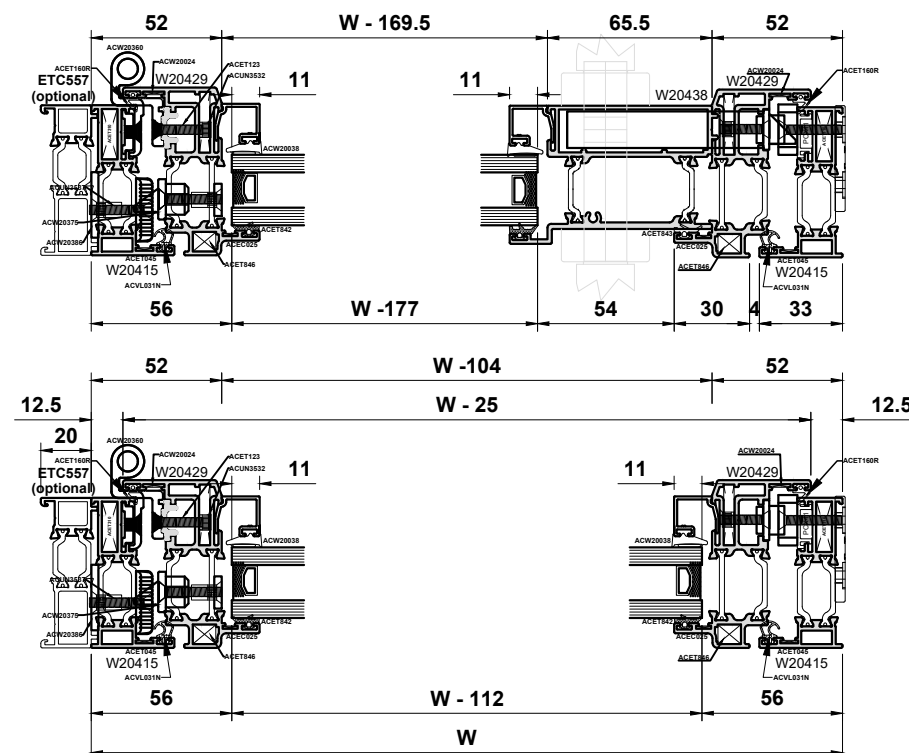
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Accessories

ACW20024	Stainless Steel Chevron	4
ACW20025	Stainless Steel Chevron	4
ACET846	Sash Cleat	4
ACW20429	Sash Cleat	4
ACET160R	Sash Seal	2 X (W-25) + 4 X (H-25)
ACW20465	Primary Lock	1
ACDV737	Shootbolt (PAS24 Option)	1
ACDV738	Shootbolt (PAS24 Option)	1
ACSM001N	Lever Handle	Pair
ACCY5025	Cylinder	1
ACW20375	Hinge Protector	4
ACW20164	Hinge Kit	4
ACET842	E Gasket	6 X (W-110) + 2 X (H-110)
ACET848	Wedge Gasket	6 X (W-110) + 2 X (H-110)
ACGSL045	Drainage Cover Cap	2
ACW20493	W20472 End Caps	Pair
ACGSL045	Drainage Cap	2

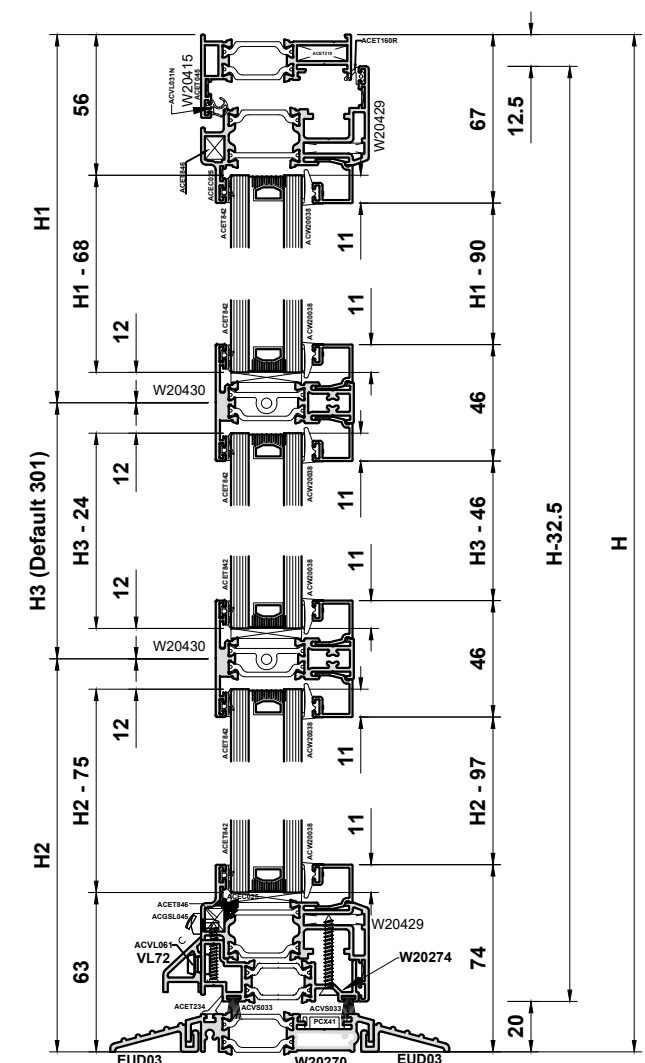
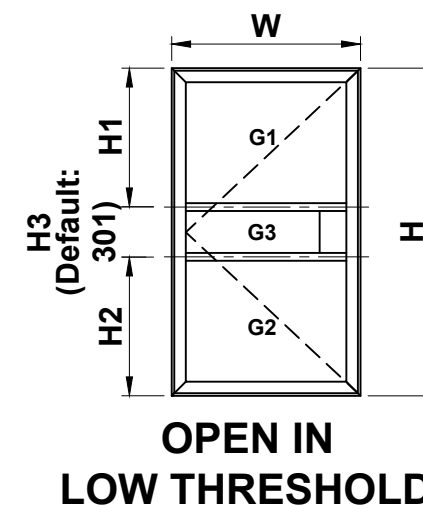
Accessories

ACET060	Csk. Pozi Self Tapper	5
ACET062	Csk. Pozi Self Tapper	4
ACET064	Csk. Pozi Self Tapper	6
ACET066	Csk. Pozi Self Tapper	6
ACET067	Csk. Pozi Self Tapper	10
ACET123	Csk. Pozi Machine Screw	32
ACUN3512	Csk. Pozi Self Tapper	5
ACUN3532	M4 Thread Insert	32
ACUN3537	Csk. Pozi Machine Screw	44



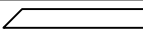
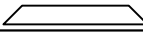
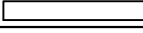
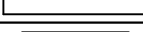
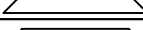
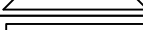
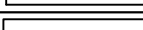
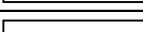
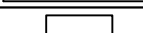
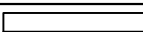
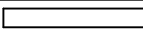
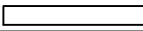
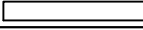
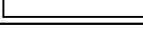
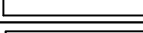
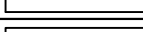
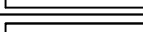
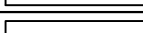
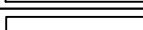
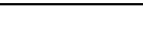
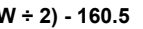
Glass

G1	1 x	W - 112 x H1 - 68
G2	1 x	W - 112 x H2 - 75
G3	1 x	W - 177 x H3 - 24



Do Not Scale From This Drawing

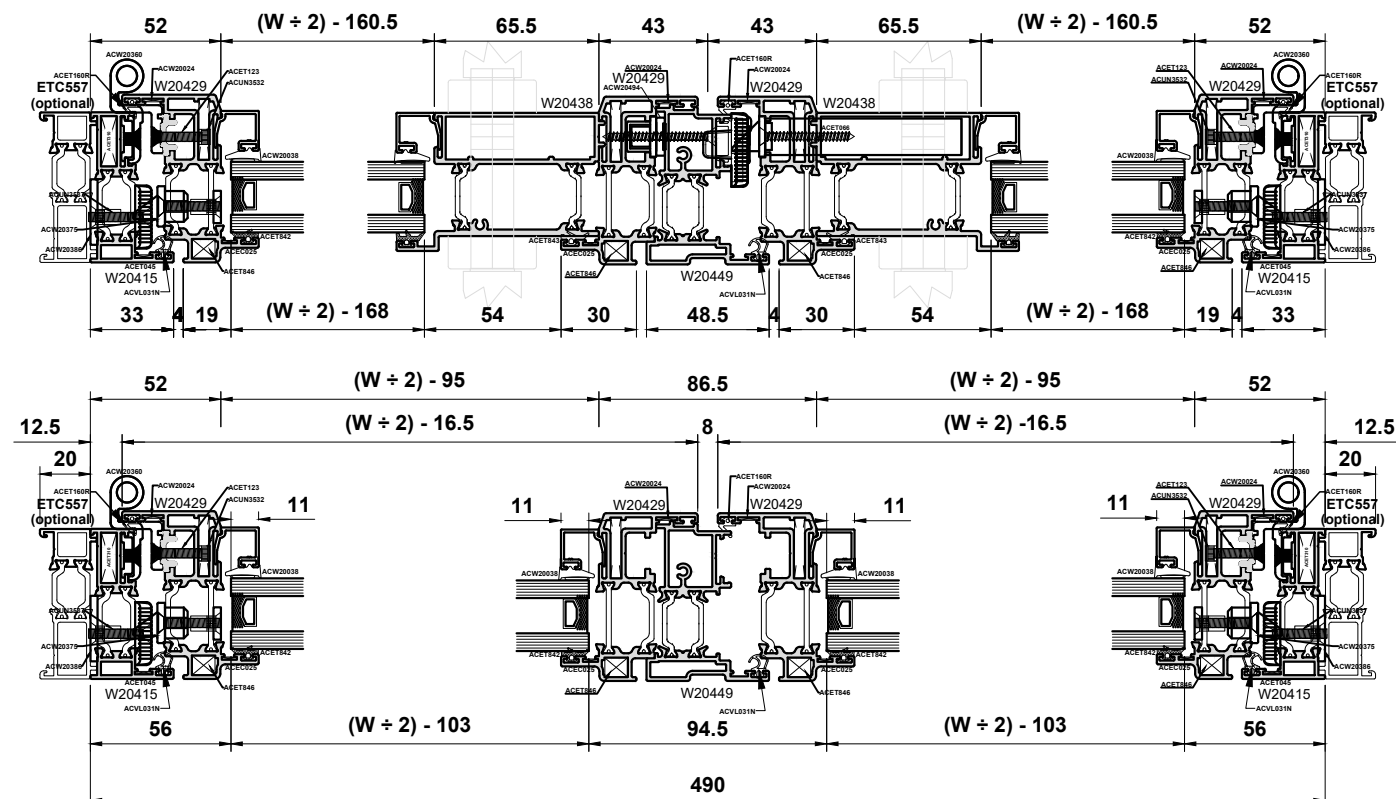
Cutting Information - Open In Double Door With Low Threshold

Profiles				
W20415		2		H - 15
W20415		1		W
W20470		1		W - 6
EUD03		2		W
W20429		4		(W+2) - 16.5
W20429		4		H - 32.5
W20449		1		H - 56.5
W20474		2		(W+2) - 77
W20430		4		(W+2) - 95
W20438		2		285
W20469		8		(W+2) - 95
W20469		4		(W+2) - 160.5
W20469		4		H1 - 90
W20469		4		H2 - 97
W20469		4		H3 - 46
VL72		2		(W+2) - 75
PCX15		2		(W +2) - 49.5
PCX15		2		H - 65.5
PCX41		2		W - 36
PCX41		2		H - 33
PCX54		1		H - 56.5

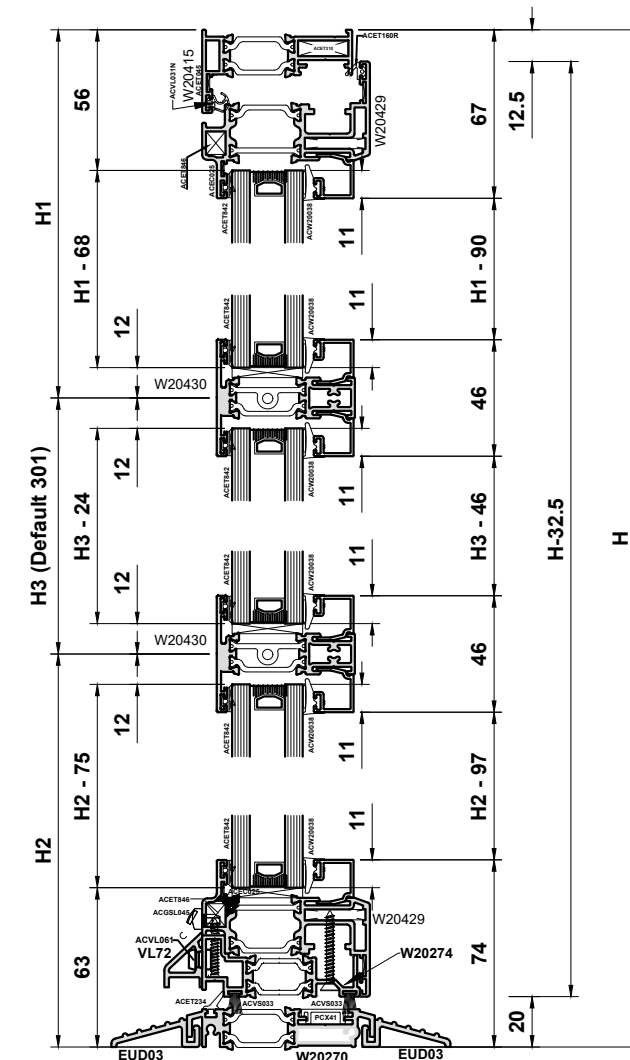
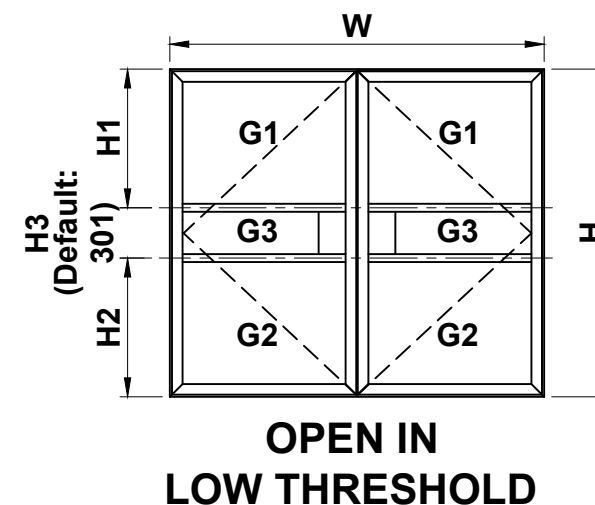
[illegible]

Accessories		
ACW20024	Stainless Steel Chevron	8
ACW20025	Stainless Steel Chevron	8
ACET846	Sash Cleat	8
ACW20429	Sash Cleat	8
ACET045	Sash Seal	2 X (W-25) + 4 X (H-25)
ACW20465	Primary Lock	1
ACW20466	Secondary Lock	1
ACDV737	Shootbolt (PAS24 Option)	2
ACDV738	Shootbolt (PAS24 Option)	2
ACSM001N	Lever Handle	2 Pairs
ACCY5025	Cylinder	2
ACW20166	Lock Keep	1
ACW20367	Roller Keep	4
ACW20375	Hinge Protector	8
ACW20164	Hinge Kit	8
ACET842	E Gasket	6 X (W-110) + 4 X (H-110)
ACET848	Wedge Gasket	6 X (W-110) + 4 X (H-110)
ACGSL045	Drainage Cover Cap	2
ACW20493	W20472 End Caps	2 Pairs
ACW20451	W20449 End Caps	Pair
ACGSL045	Drainage Cap	4

Accessories		
ACET060	Csk. Pozi Self Tapper	10
ACET062	Csk. Pozi Self Tapper	8
ACET064	Csk. Pozi Self Tapper	12
ACET066	Csk. Pozi Self Tapper	17
ACET067	Csk. Pozi Self Tapper	10
ACET070	Csk. Pozi Self Tapper	2
ACET392	Polyamide Screw	5
ACET123	Csk. Pozi Machine Screw	20
ACUN3512	Csk. Pozi Self Tapper	22
ACUN3532	M4 Thread Insert	44
ACUN3537	Csk. Pozi Machine Screw	88



Glass		
G1	2 x	$(W \div 2) - 103 \times H1 - 68$
G2	2 x	$(W \div 2) - 103 \times H2 - 75$
G3	2 x	$(W \div 2) - 168 \times H3 - 24$



Do Not Scale From This Drawing