Main Index

Specification

GENERAL DESCRIPTION

The "Alitherm 300" window system described in this manual is suitable for both replacement windows for existing buildings, and for installation into new buildings.

The system incorporates internally & externally beaded vent frames suitable for cockspur and espag locking.

The low line gaskets and extended polyamide thermal breaks help to provide excellent U Values and Window Energy Rating capable of achieving an 'A' Rating when used in conjunction with the correct double glazed unit.

Corner assembly of Alitherm 300 is by crimping only.

PROFILE SPECIFICATION

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

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

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

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

GENERAL MANUFACTURING

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 300 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 silicone seal.

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

Kitemark™ Certificate
No. KM 81580

Size Limitations and Performance Characteristics
Alitherm 300 Aluminium Alloy Window System

Window Type	Width (mm) - Maximum	Height (mm) - Maximum	Weight (kg) - Maximum	Area (M²) - Maximum	Friction Stays (up to and including)	Transom/Mullion Length (mm) inc frame - Maximum	Air Permeability classification	Water tightness classification	Resitance to Wind classification	Exposure category as given in Table 1 of BS 6375-1:2009
Sash dimensions for windows with approved sash profiles:										
Projecting top hung Internally beaded	1400	1400	40	-	24"	-	4	7A	AE2400	2000+
Projecting top hung Externally beaded	1400	1400	40	-	24"	-	4	5A	AE2400	2000+
Projecting side hung Internally beaded	600	1400	28	-	16"	-	4	7A	AE2400	2000+
Projecting side hung Externally beaded	600	1400	28	-	16"	-	4	5A	AE2400	2000+
Overall dimensions for windows with approved outer frame profiles:										
Fixed Internally Beaded	2100	2100	-	4.2	-	-	4	7A	AE2400	2000+
Fixed Externally Beaded	2100	2100	-	4.2	-	-	4	5A	AE2400	2000+
Overall dimensions for approved outer frames & transom/mullion profiles:										
Multilights* Internally Beaded	2100	2100	-	2.5	-	1200	4	7A	AE2400	2000+
Multilights* Externally Beaded	2100	2100	-	2.5	-	1200	4	5A	AE2400	2000+

*Transom/mullion subject to Ixx/Iyy requirements

Please see pages B24, 25 & 26 for more guidance on vent sizes & limitations.

- Side Hung Weight Limit Can Be Increased To 40 kg Using Egress Hinges
- See hardware for minimum sizes

Specification

WINDOW DRAINAGE

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

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

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.

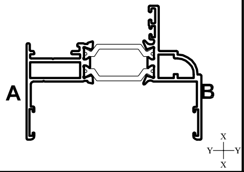
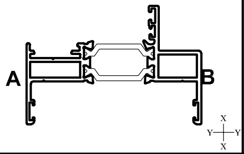
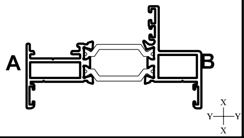
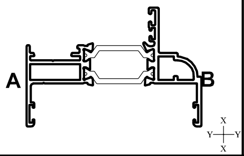
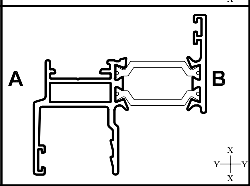
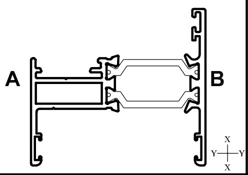
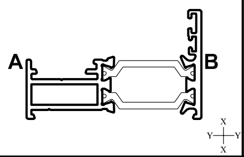
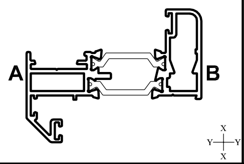
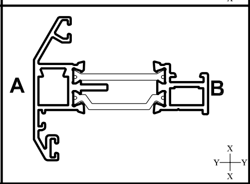
Using the marked centre line, Drill the transom/mullion fixing holes using a 5mm dia. drill bit.

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 gap sealer. After fixing, special care should be taken to ensure any excess is cleared from painted surfaces.

Specification

Number	Picture	Page	Perim. mm	Mec. mm	Ix(cm4) wx(cm3)	Iy(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
ETC303		A15	383	110	23.2 ----- 6.54	4.41 ----- 1.68	6.5	1	✓	✓	✓	✓	✓
ETC304		A16	361	101	22.01 ----- 6.10	3.23 ----- 1.31	6.5	1	✓	✓	✓	✓	✓
ETC305		A16	335	88	19.40 ----- 5.34	2.25 ----- 1.28	6.5	1	✓	✓	✓	✓	✓
ETC306		A17	357	98	21.18 ----- 5.95	3.20 ----- 1.42	6.5	1	✓	✓	✓	✓	✓
ETC308		A17	357	83	12.96 ----- 4.27	4.48 ----- 1.74	6.5	1	✓	✓	✓	✓	✓
ETC310		A18	322	86	14.20 ----- 4.60	3.49 ----- 1.49	6.5	1	✓	✓	✓	✓	✓
ETC313		A18	252	58	10.7 ----- 3.41	1.8 ----- 1.62	6.5	1	✓	✓	✓	✓	✓
ETC321		A19	332	85	17.59 ----- 5.68	4.12 ----- 1.78	6.5	1	✓	✓	✓	✓	✓
ETC323		A19	402	108	12.38 ----- 3.44	3.09 ----- 1.34	6.5	1	✓	✓	✓	✓	✓

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GOZ = Gold
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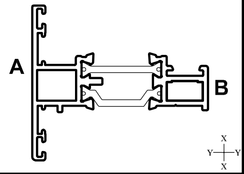
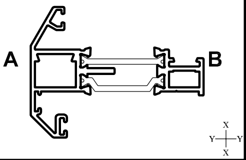
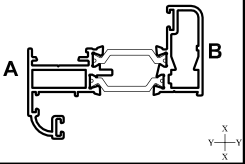
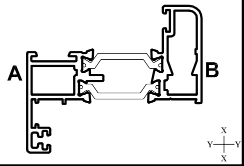
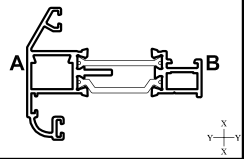
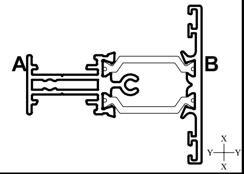
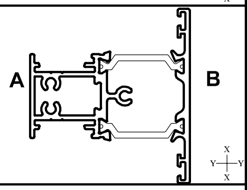
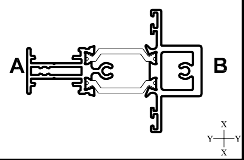
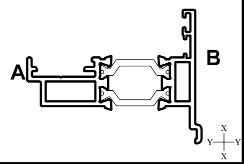
Alitherm 300

Number	Picture	Page	Perim. mm	Mec. mm	Ix(cm4) wx(cm3)	Iy(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
ETC324		A20	267	69	16.66 ----- 5.16	2.58 ----- 1.14	6.5	1	✓	✓	✓	✓	✓
ETC326		A20	342	77	14.90 ----- 3.87	3.40 ----- 1.49	6.5	1	✓	✓	✓	✓	✓
ETC327		A21	335	86	17.59 ----- 5.67	4.12 ----- 1.78	6.5	1	✓	✓	✓	✓	✓
ETC328N		A21	277	90	14.99 ----- 5.25	4.21 ----- 1.85	6.5	1	✓	✓	✓	✓	✓
ETC329		A22	343	80	14.95 ----- 3.88	3.42 ----- 1.51	6.5	1	✓	✓	✓	✓	✓
ETC333		A24	389	54	11.64 ----- 3.62	**2.63** ----- 1.09	6.5	1	✓	✓	✓	✓	✓
ETC335		A24	383	97	15.06 ----- 5.25	5.56 ----- 1.92	6.5	1	✓	✓	✓	✓	✓
ETC336		A24	372	106	22.34 ----- 5.40	3.35 ----- 1.40	6.5	1	✓	✓	✓	✓	✓
ETC343		A27	274	57	9.12 ----- 2.77	1.81 ----- 0.92	6.5	1	✓	✓	✓	✓	✓

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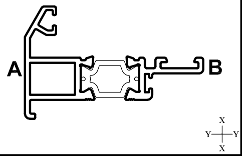
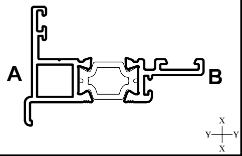
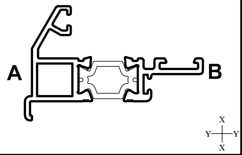
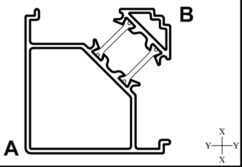
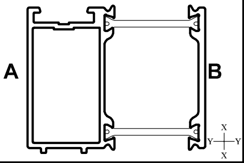
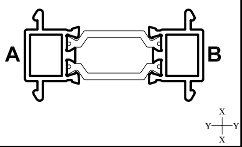
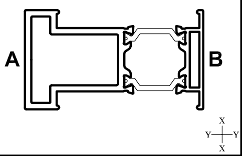
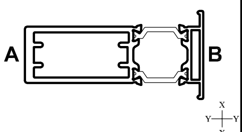
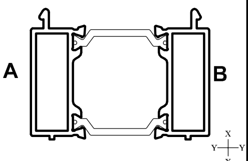
 ISSUED : MAY 2016

Number	Picture	Page	Perim. mm	Mec. mm	Ix(cm4) wx(cm3)	Iy(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
ETC344		A26	246	41	5.75 ----- 3.04	1.16 ----- 0.62	6.5	1	✓	✓	✓	✓	✓
ETC345		A26	227	41	4.85 ----- 2.66	1.23 ---- 0.59	6.5	1	✓	✓	✓	✓	✓
ETC346N		A26	314	47	4.87 ----- 2.50	1.12 ----- 0.60	6.5	1	✓	✓	✓	✓	✓
ETC347		A34	344	94	16.65 ----- 5.90	16.65 ----- 6.11	6.5	1	✓	✓	✓	✓	✓
ETC352		A38	293	85	13.07 ----- 4.73	7.25 ----- 3.40	6.5	1	✓	✓	✓	✓	✓
ETC353		A36	214	32	9.44 ----- 3.56	1.15 ----- 0.85	6.5	1	✓	✓	✓	✓	✓
ETC356		A36	311	111	32.05 ----- 8.28	7.19 ----- 3.69	6.5	1	✓	✓	✓	✓	✓
ETC357		A37	297	138	41.5 ----- 9.86	5.2 ----- 2.67	6.5	1	✓	✓	✓	✓	✓
ETC358		A39	264	33	12.95 ----- 4.89	4.74 ----- 2.61	6.5	1	✓	✓	✓	✓	✓

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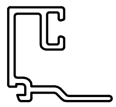
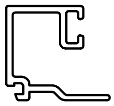
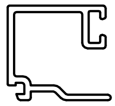
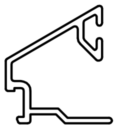
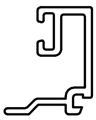
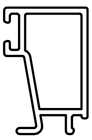
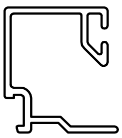
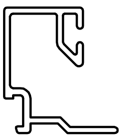
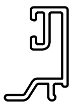
Number	Picture	Page	Perim. mm	Mec. mm	Ix(cm4) wx(cm3)	Iy(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
ETC360		A31	119	26	- ----- -	- ----- -	6.5	1	✓	✓	✓	✓	
ETC361		A31	127	30	- ----- -	- ----- -	6.5	1	✓	✓	✓	✓	
ETC362		A31	135	34	- ----- -	- ----- -	6.5	1	✓	✓	✓	✓	
ETC364		A28	122	28	- ----- -	- ----- -	6.5	1	✓	✓	✓	✓	
ETC366		A29	106	24	- ----- -	- ----- -	6.5	1	✓	✓	✓	✓	
ETC367		A29	89	33	- ----- -	- ----- -	6.5	1	✓	✓	✓	✓	
ETC370		A28	141	32	- ----- -	- ----- -	6.5	1	✓	✓	✓	✓	
ETC371		A29	133	28	- ----- -	- ----- -	6.5	1	✓	✓	✓	✓	
ETC372		A26	96	22	- ----- -	- ----- -	6.5	1	✓	✓	✓	✓	

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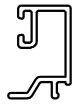
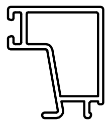
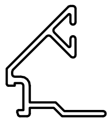
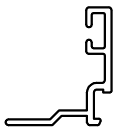
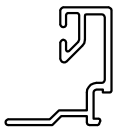
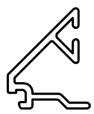
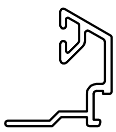
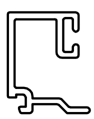
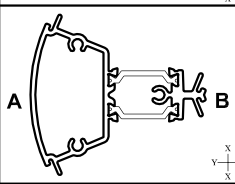
Number	Picture	Page	Perim. mm	Mec. mm	Ix(cm4) wx(cm3)	Iy(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
ETC373		A26	102	25	- ----- -	- ----- -	6.5	1	✓	✓	✓	✓	
ETC374		A28	97	37	- ----- -	- ----- -	6.5	1	✓	✓	✓	✓	
ETC375		A29	112	22	- ----- -	- ----- -	6.5	1	✓	✓	✓	✓	
ETC376		A30	100	20	- ----- -	- ----- -	6.5	1	✓	✓	✓	✓	
ETC377		A30	124	24	- ----- -	- ----- -	6.5	1	✓	✓	✓	✓	
ETC378		A32	96	21	- ----- -	- ----- -	6.5	1	✓	✓	✓	✓	
ETC379		A30	112	23	- ----- -	- ----- -	6.5	1	✓	✓	✓	✓	
ETC381		A32	114	28	- ----- -	- ----- -	6.5	1	✓	✓	✓	✓	
ETC385		A33	357	65	26.65 ----- 6.53	12.38 ----- 3.83	6.5	1	✓	✓	✓	✓	✓

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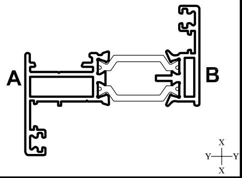
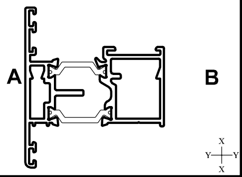
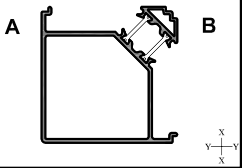
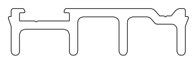
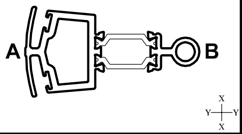
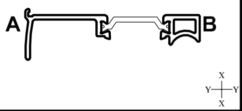
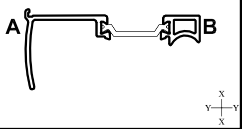
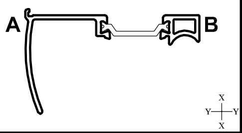
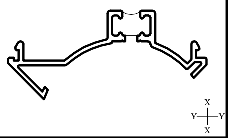
Alitherm 300

Number	Picture	Page	Perim. mm	Mec. mm	Ix(cm4) wx(cm3)	Iy(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
ETC423		A22	331	77	2.43 ----- 1.01	20.11 ----- 7.83	6.5	1	✓	✓	✓	✓	✓
ETC424N		A23	383	84	15.26 ----- 4.81	6.91 ----- 2.26	6.5	1	✓	✓	✓	✓	✓
ETC048		A34	400	152	42.64 ----- 11.72	42.64 ----- 11.81	6.5	1	✓	✓	✓	✓	✓
ETC052	 PVC	A40	242	-	0.77 ----- 0.71	15.51 ----- 4.77	4	1	✓				
ETC080		A35	334	61	25.58 ----- 5.47	4.88 ----- 2.57	6.5	1	✓	✓	✓	✓	✓
ETC081		A35	197	35	13.85 ----- 3.8	0.36 ----- 0.52	6.5	1	✓	✓	✓	✓	✓
ETC082		A35	221	47	16.21 ----- 4.19	1.15 ----- 1.29	6.5	1	✓	✓	✓	✓	✓
ETC083		A35	243	58	17.66 ----- 4.32	2.64 ----- 2.36	6.5	1	✓	✓	✓	✓	✓
ETC150		A33	282	48	11.29 ----- 0.75	1.12 ----- 0.73	6.5	1	✓	✓	✓	✓	

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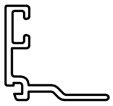
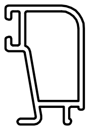
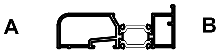
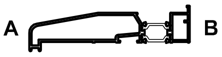
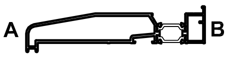
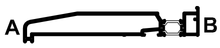
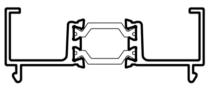
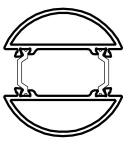
ISSUED : MAY 2016

Number	Picture	Page	Perim. mm	Mec. mm	Ix(cm4) wx(cm3)	Iy(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
ETC160		A31	94	20	- — -	- — -	6.5	1	✓	✓	✓	✓	
ETC273		A29	88	31	- — -	- — -	6.5	1	✓	✓	✓	✓	
ETC451		A41	304	109	32.44 ----- 7.29	3.46 ----- 2.79	6.5	1	✓	✓	✓	✓	✓
ETC452		A41	414	197	122.46 ----- 18.03	6.01 ----- 3.34	6.5	1	✓	✓	✓	✓	✓
ETC457		A41	444	212	163.27 ----- 21.60	6.79 ----- 3.73	6.5	1	✓	✓	✓	✓	✓
ETC458		A42	524	252	313.62 ----- 32.63	8.87 ----- 4.79	6.5	1	✓	✓	✓	✓	✓
ETC479		A42	594	287	501.64 ----- 44.04	9.72 ----- 5.34	6.5	1	✓	✓	✓	✓	✓
ETC559		A39	318	41	15.75 ----- 4.50	1.17 ----- 0.98	6.5	1	✓	✓	✓	✓	✓
ETC869		A33	312	144	**18.38** ----- 6.13	14.30 ----- 5.17	**6.5**	1	✓	✓	✓	✓	✓

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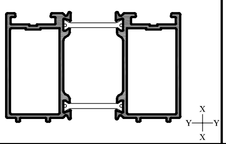
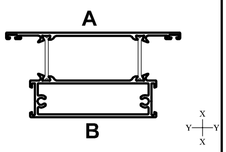
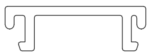
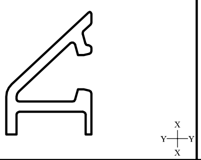
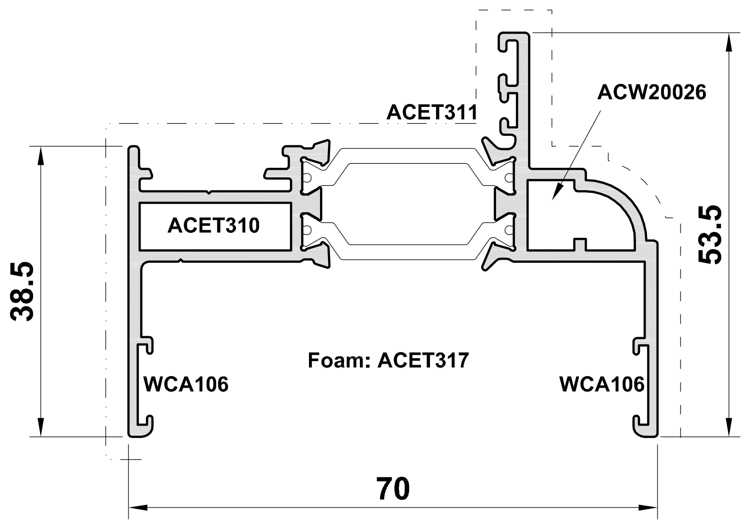
Number	Picture	Page	Perim. mm	Mec. mm	Ix(cm4) wx(cm3)	Iy(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
DV515		A38	289	97	27.16 ----- 7.76	14.38 ----- 6.75	6.5	1	✓	✓	✓	✓	✓
ETD330	 **A & B may be reversed**	A25	545	197	28.40 ----- 10.55	56.92 ----- 10.44	6.5	1	✓	✓	✓	✓	✓
PCX41	 PVC	A40	65	-	- — -	- — -	6.5	1	✓				
VL72		A40	101	32	- ----- -	- ----- -	6.5	5	✓	✓	✓	✓	

Primary Visible Side

Secondary Visible Side

ETC303

70mm Long Leg Ovolo Outerframe

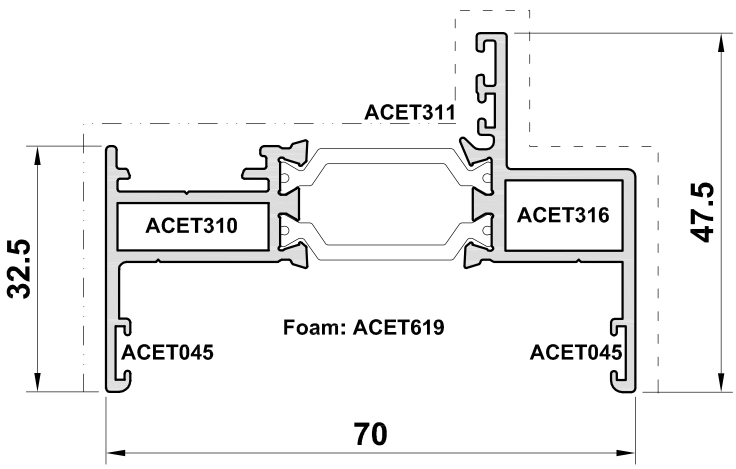


Scale 1:1

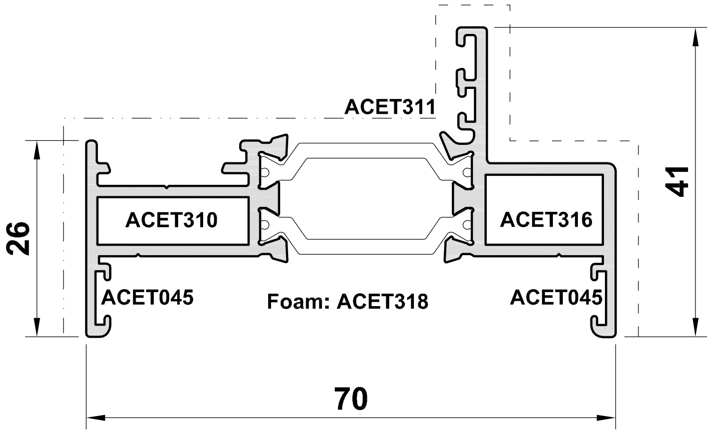
Primary Visible Side

Secondary Visible Side

ETC304
70mm Long Leg Square Outerframe



ETC305
70mm Short Leg Square Outerframe



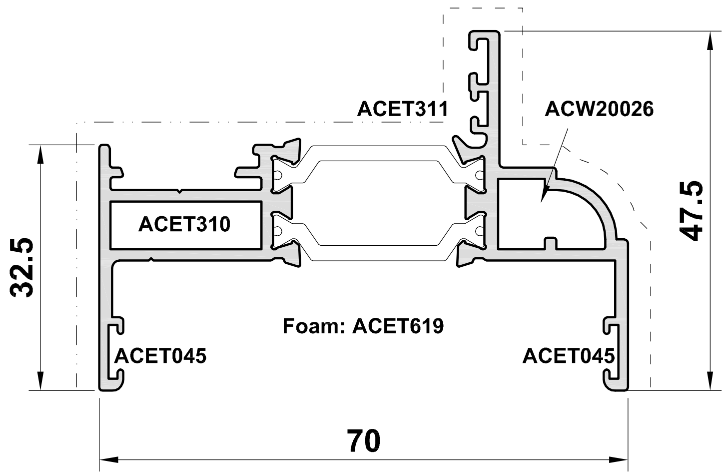
Scale 1:1

ISSUED : MAY 2016

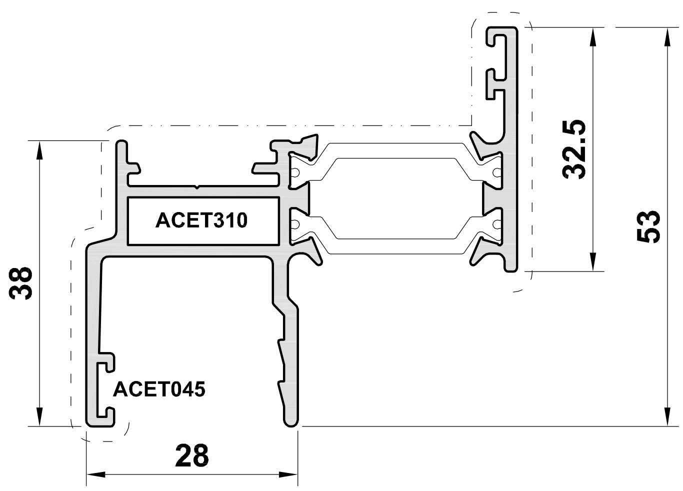
Primary Visible Side

Secondary Visible Side

ETC306
70mm Ovolo Outerframe



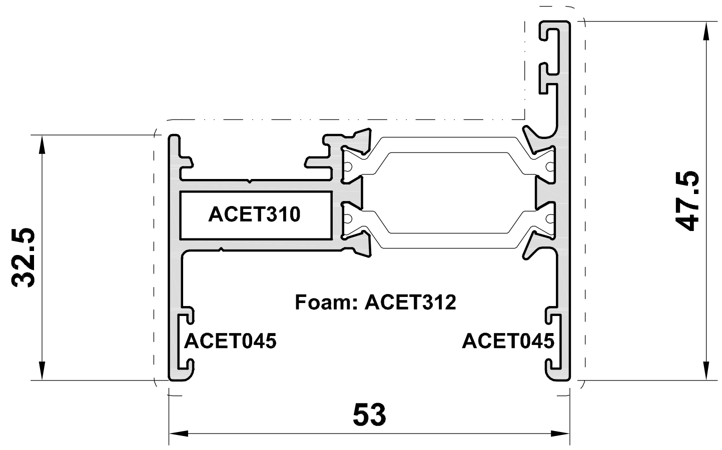
ETC308
Outerframe For Curtain Wall



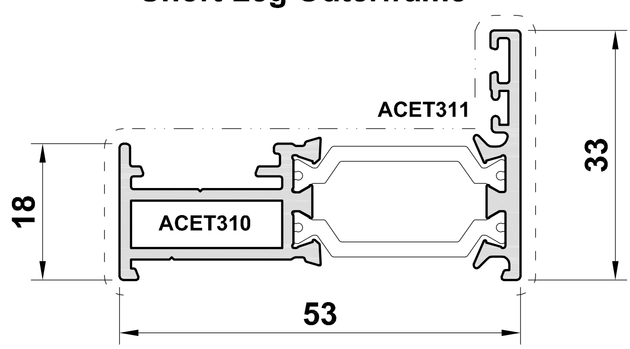
Scale 1:1

Primary Visible Side - - - - - - - - Secondary Visible Side

ETC310
Long Leg Outerframe



ETC313
Short Leg Outerframe



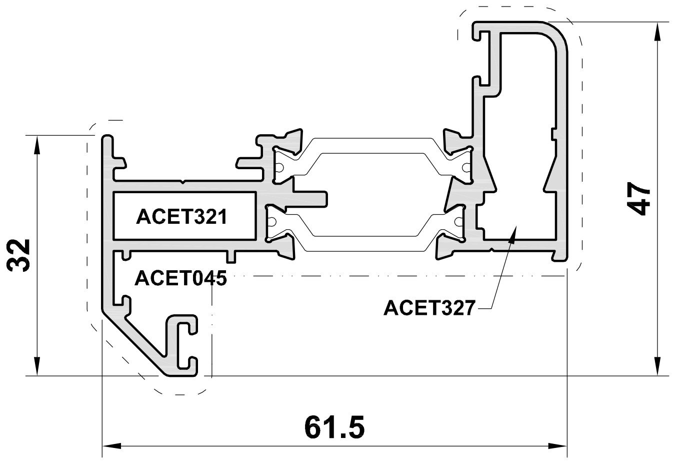
Scale 1:1

ISSUED : MAY 2016

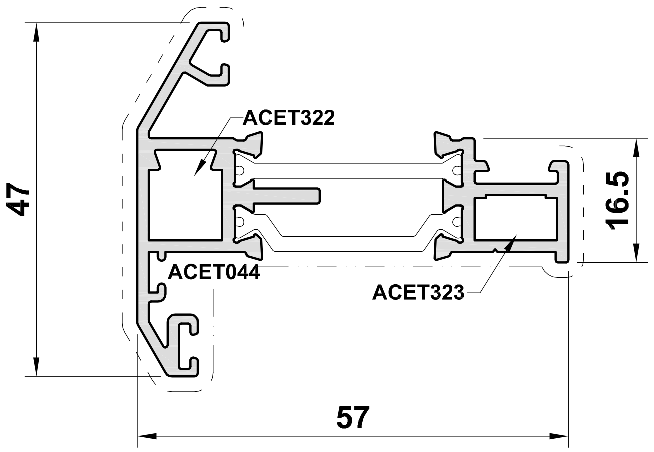
Primary Visible Side

Secondary Visible Side

ETC321
Chamfered Vent



ETC323
Internally Beaded Chamfered Vent

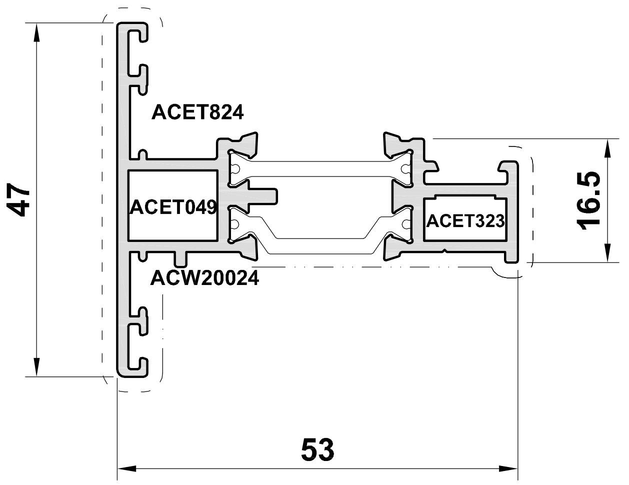


Scale 1:1

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

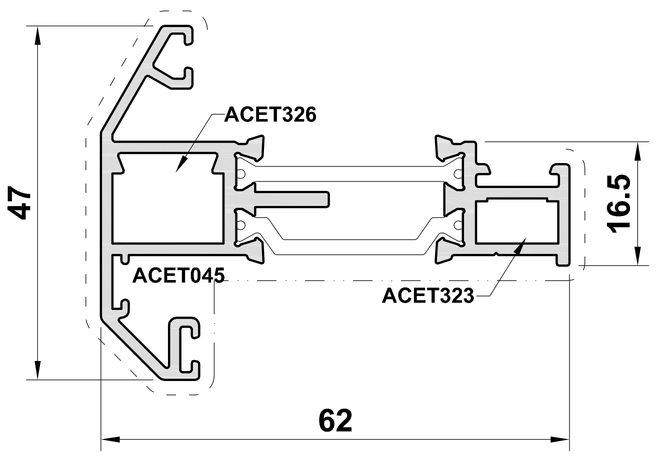
ETC324

Internally Beaded Flat Vent



ETC326

Internally Beaded Chamfered Vent

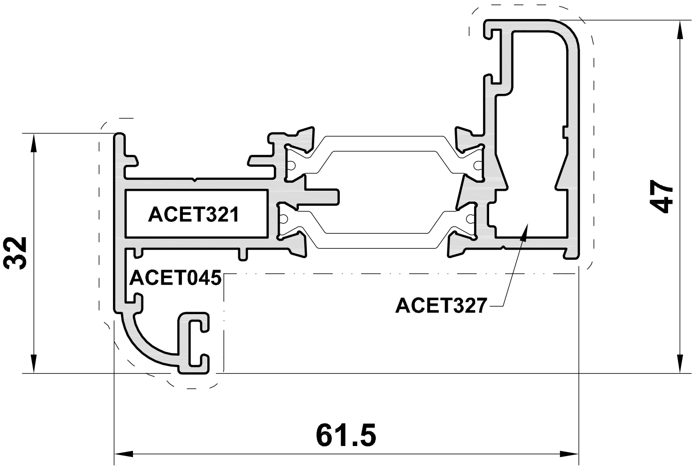


Scale 1:1

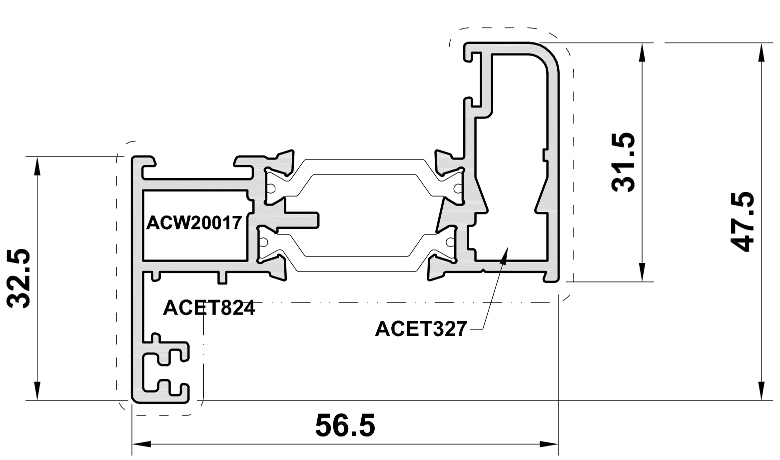
Primary Visible Side

Secondary Visible Side

ETC327
Ovolo Vent



ETC328N
Externally Glazed Square Vent

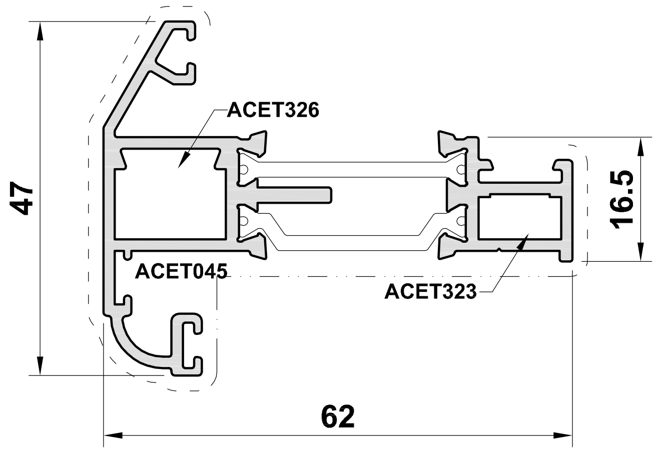


Scale 1:1

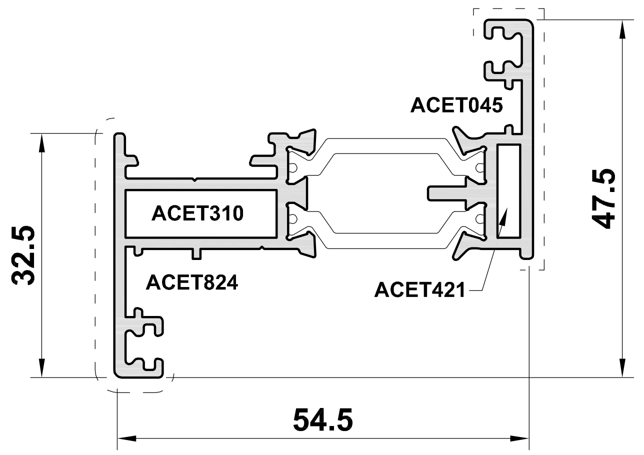
Primary Visible Side

Secondary Visible Side

ETC329
Internally Beaded Ovolo Vent



ETC423
Vent/Odd Leg Outer Frame

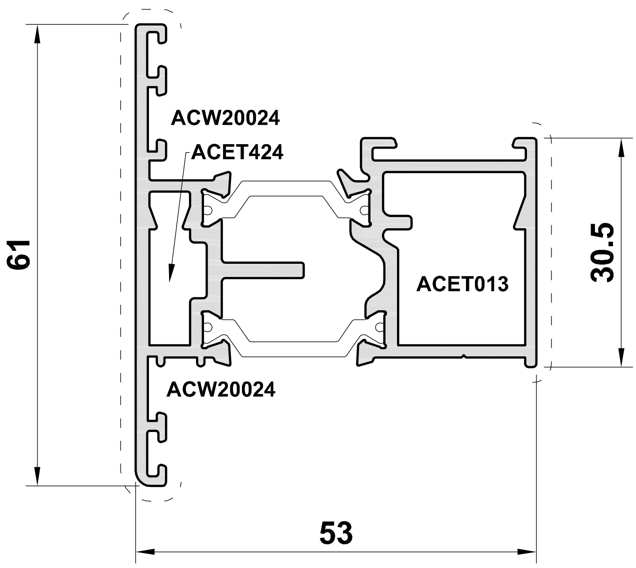


Scale 1:1

Primary Visible Side Secondary Visible Side

ETC424N

Flat Internally Beaded Vent

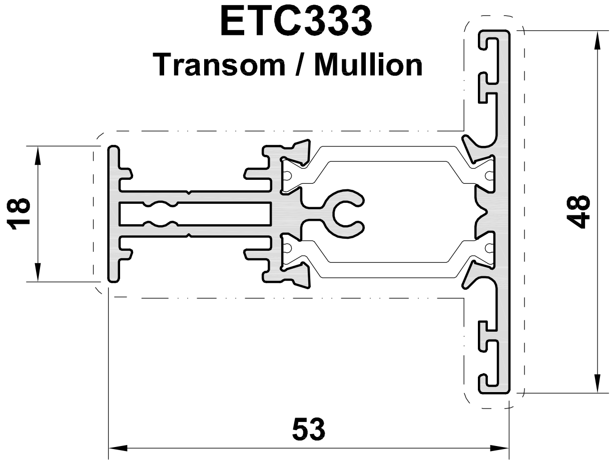


Scale 1:1

Primary Visible Side

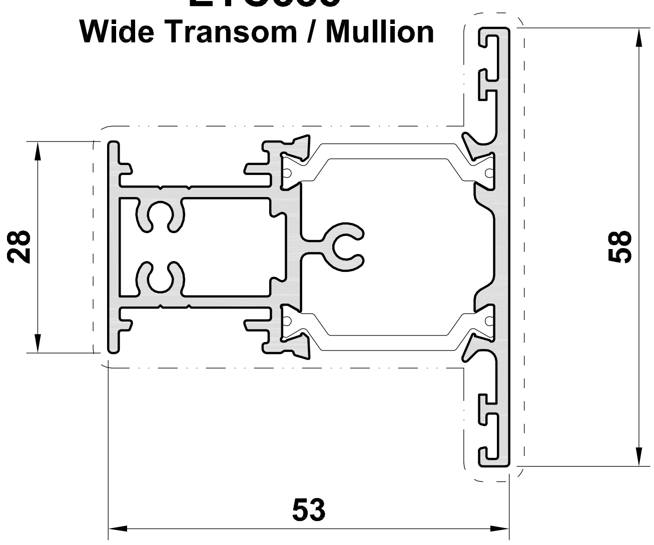
Secondary Visible Side

ETC333
Transom / Mullion

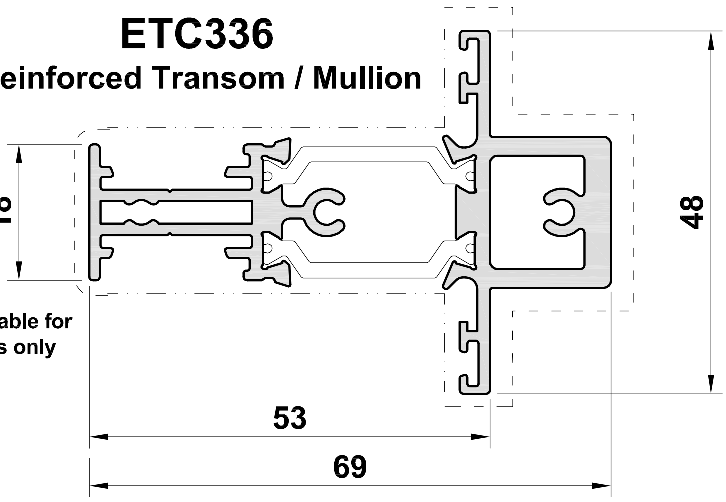


Please note ETC333 is suitable for single vents & fixed lights only

ETC335
Wide Transom / Mullion



ETC336
Reinforced Transom / Mullion



Please note ETC336 is suitable for single vents & fixed lights only

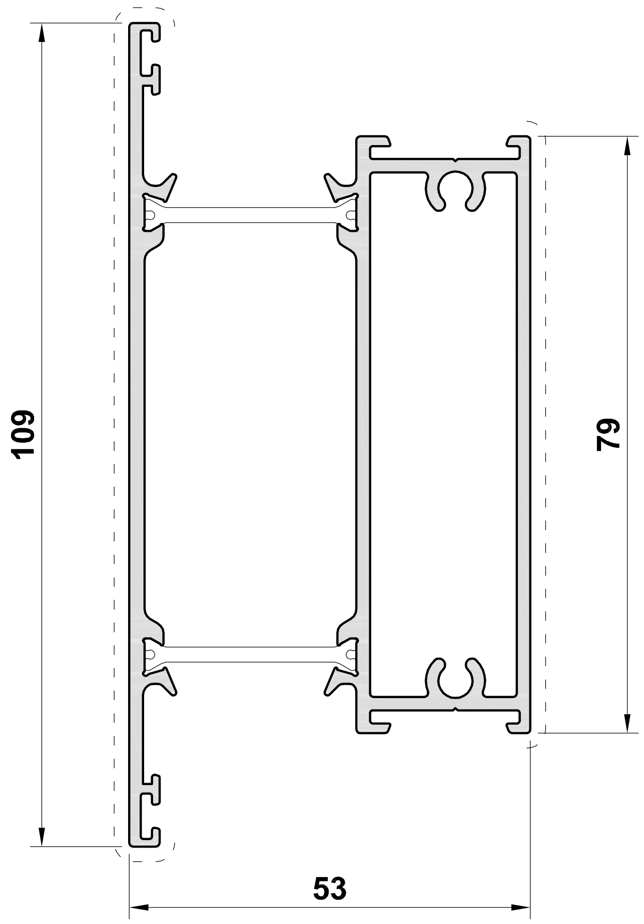
Scale 1:1

ISSUED : MAY 2016

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

ETD330

Transom / Mullion to match ETD030
(Recommended for fixed lights only)



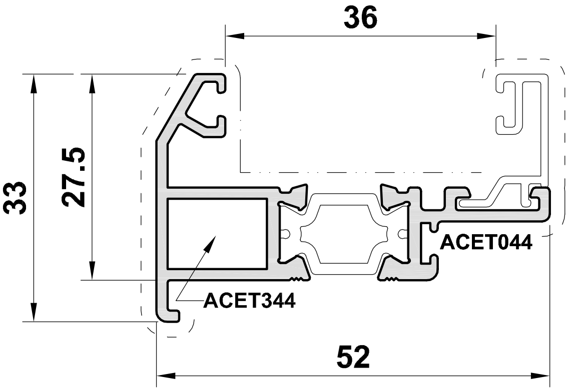
ETD330 can be used with the outerframes shown in this manual providing the following beads & gasket are used in the midrail:
24mm = ETC362 with ACET841 gasket externally & ACW20034 gasket internally
28mm = ETC361 with ACET841 gasket externally & ACW20034 gasket internally

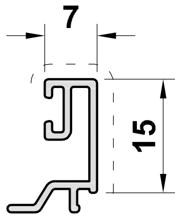
ETD330 is recommended for fixed lights only. The friction hinges and keeps in this manual are not compatible with this section as standard.

Scale 1:1

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

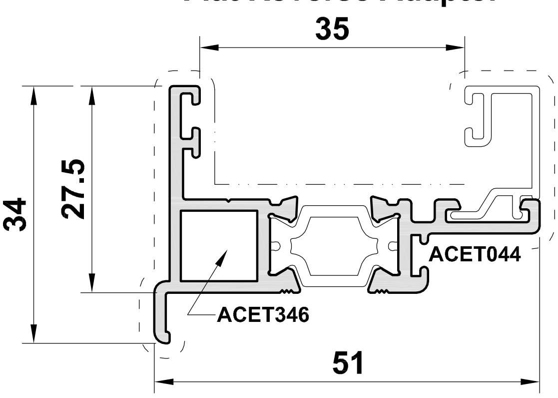
ETC344
Chamfered Reverse Adaptor

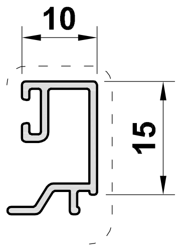




ETC372
(28mm Glazing)

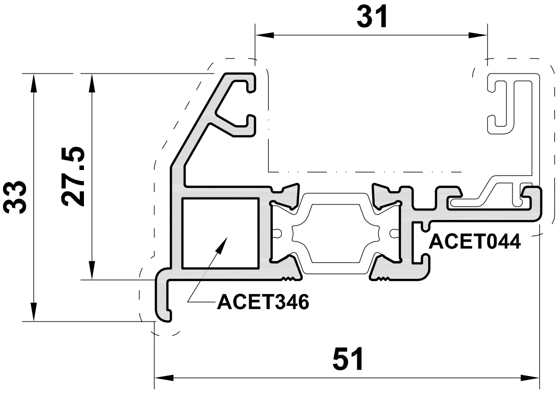
ETC345
Flat Reverse Adaptor

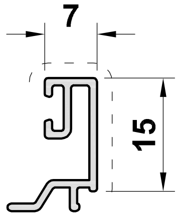




ETC373
(28mm Glazing)

ETC346N
Chamfered Reverse Adaptor





ETC372
(24mm Glazing)

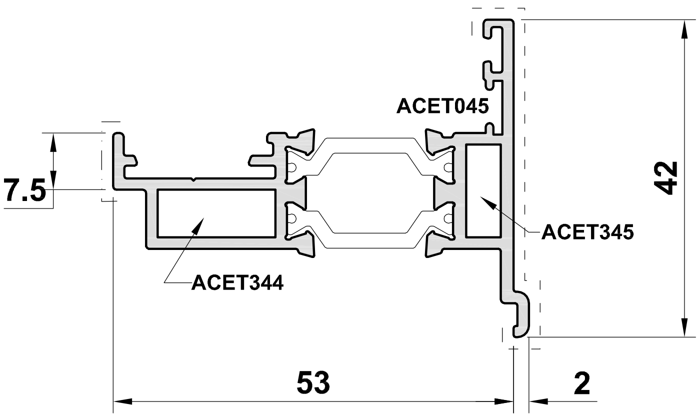
Scale 1:1

Primary Visible Side

Secondary Visible Side

ETC343

Reverse Adaptor for Vents & Fixed Light



Scale 1:1

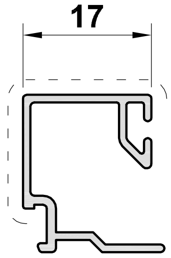
Primary Visible Side

Secondary Visible Side

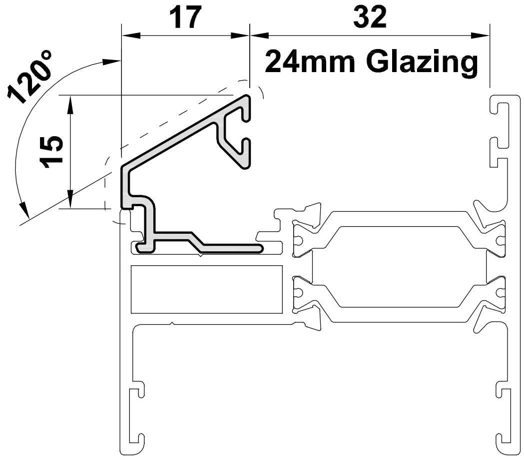
24mm Glazing External

ETC150 ETC420
ETC303 ETC321
ETC304 ETC327
ETC305 ETC333
ETC306 ETC334
ETC335
ETC336

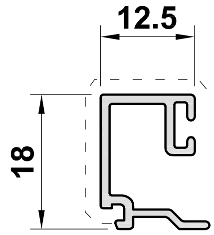
ETC370



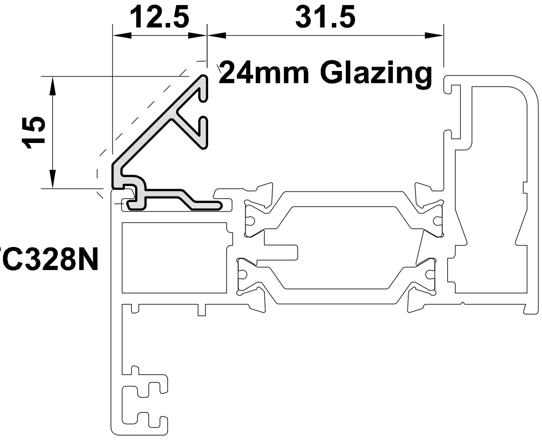
ETC364



24mm Glazing Internal



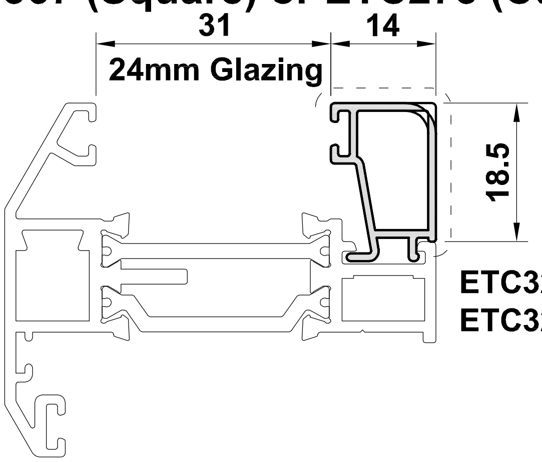
ETC381 (square) or ETC378 (chamfered)



ETC328N

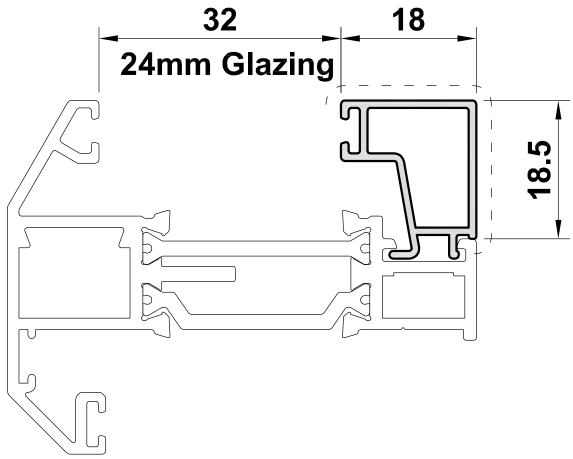
ETC367 (Square) or ETC273 (Curved)

ETC323



ETC326
ETC329

ETC374



Scale 1:1

See Page E15 for Glazing Schedule

ISSUED : MAY 2016

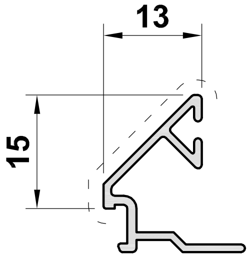
Primary Visible Side

Secondary Visible Side

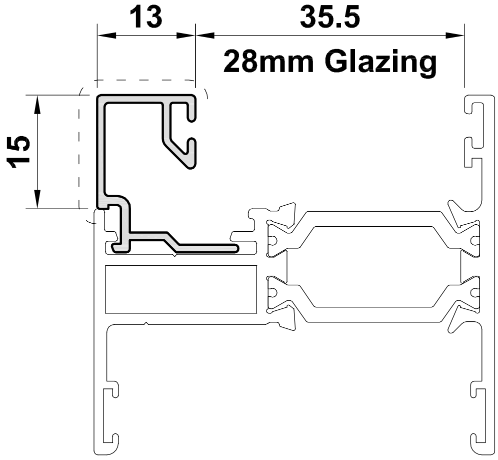
28mm Glazing External

ETC150 ETC420
ETC303 ETC321
ETC304 ETC327
ETC305 ETC333
ETC306 ETC334
ETC335
ETC336

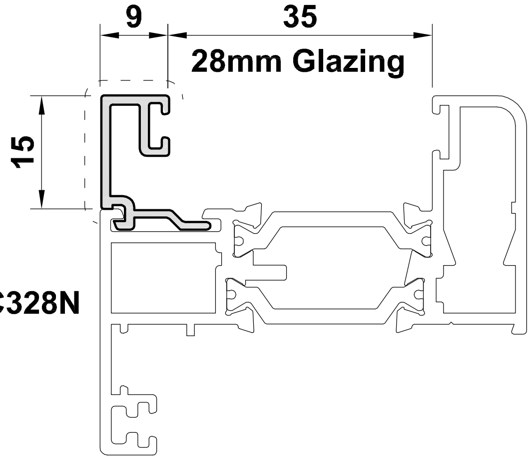
ETC375



ETC371

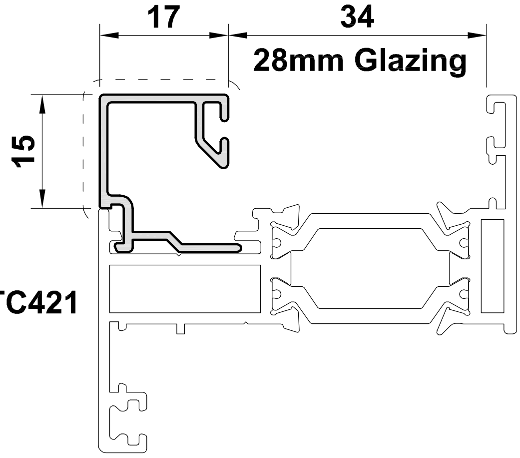


ETC366



ETC328N

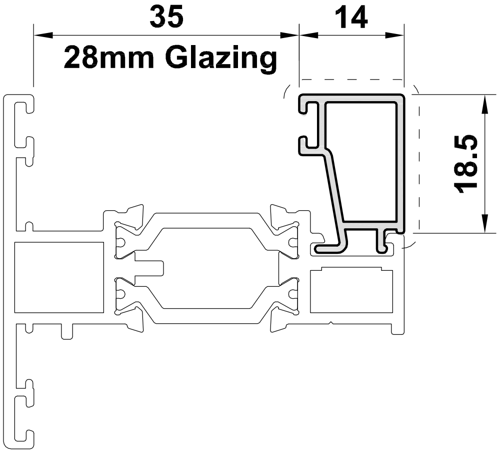
ETC370



ETC421

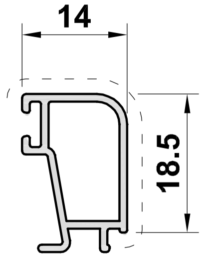
28mm Glazing Internal

ETC367



ETC324N
ETC423

ETC273



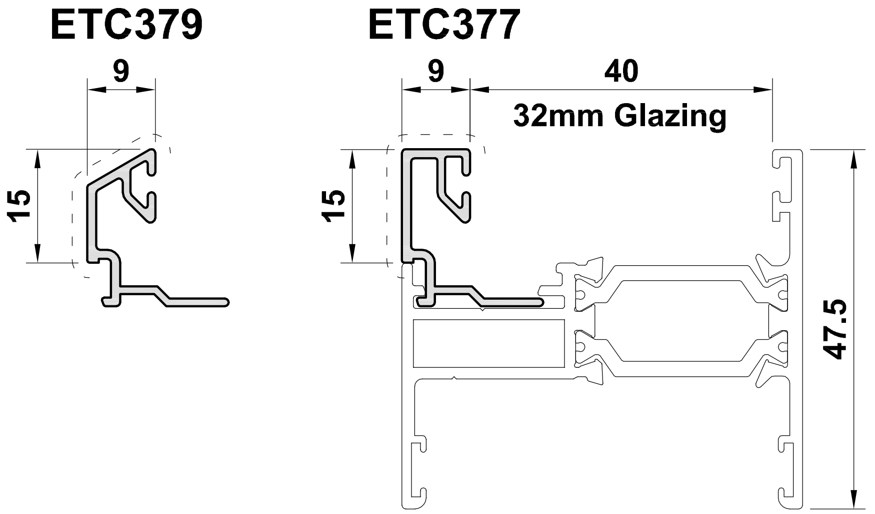
See Page E16 for Glazing Schedule

Scale 1:1

Primary Visible Side – – – – – – – – – – Secondary Visible Side – · – · – · – · –

32mm Glazing External

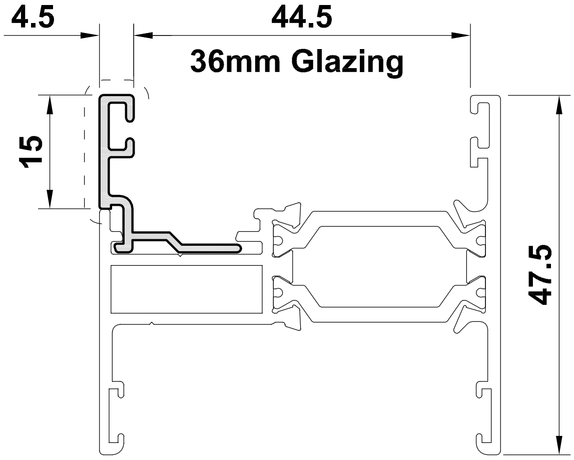
ETC150 ETC420
ETC303 ETC321
ETC304 ETC327
ETC305 ETC333
ETC306 ETC334
ETC335
ETC336



ETC376

36mm Flat Glazing Bead External

ETC150 ETC420
ETC303 ETC321
ETC304 ETC327
ETC305 ETC333
ETC306 ETC334
ETC335
ETC336

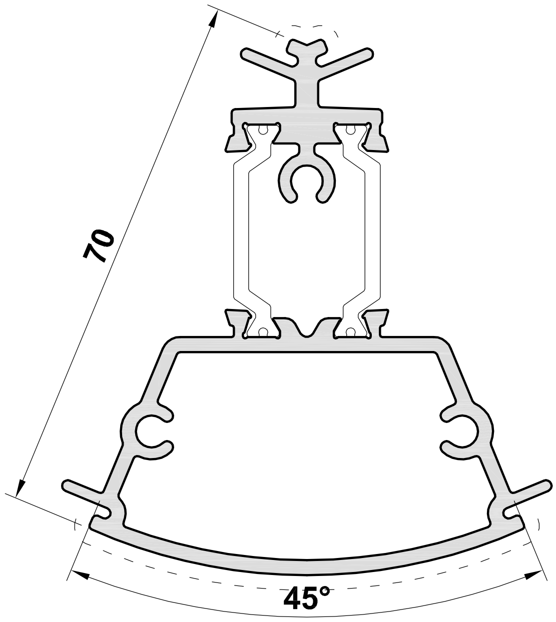


Scale 1:1

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

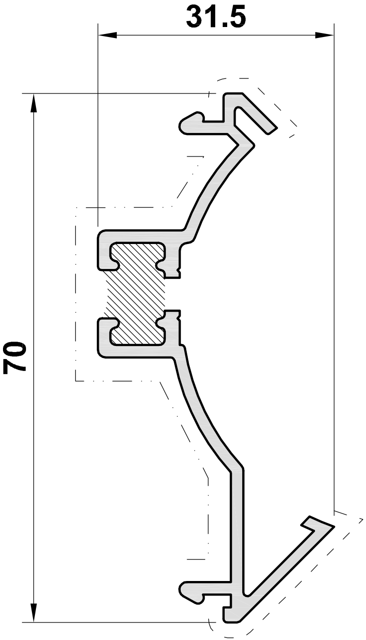
ETC385

135° Bay Pole For 70mm Outer Frame



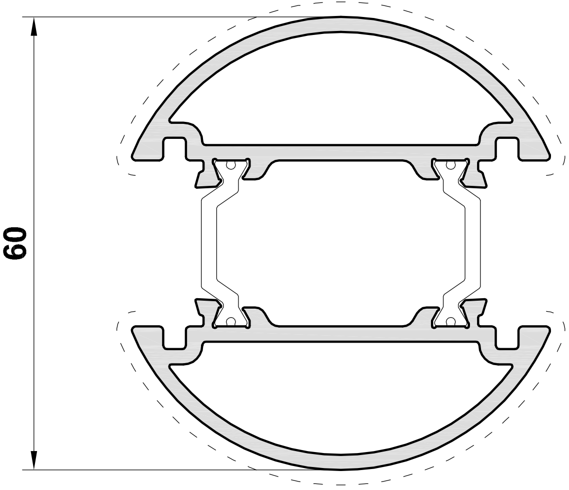
ETC150

Bay Pole Adaptor



ETC869

Bay Pole

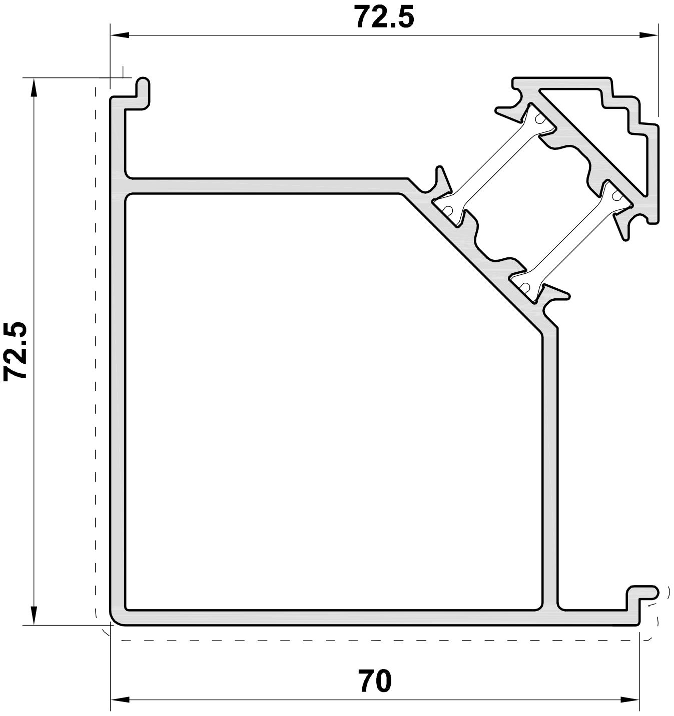


Note: ETC150 is NOT available in dual colour

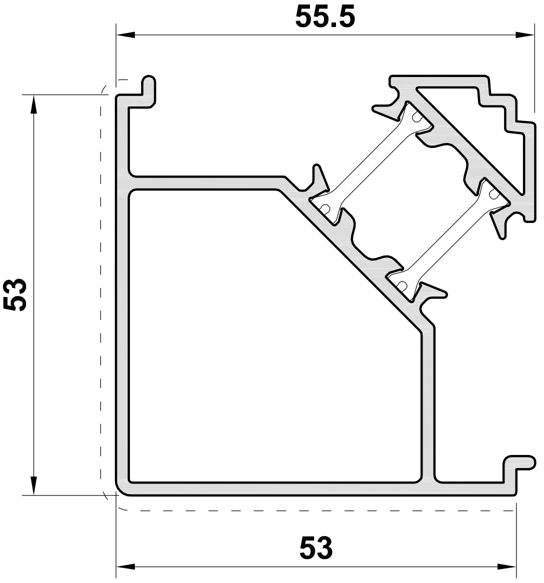
Scale 1:1

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

ETC048
70mm 90° Corner Post



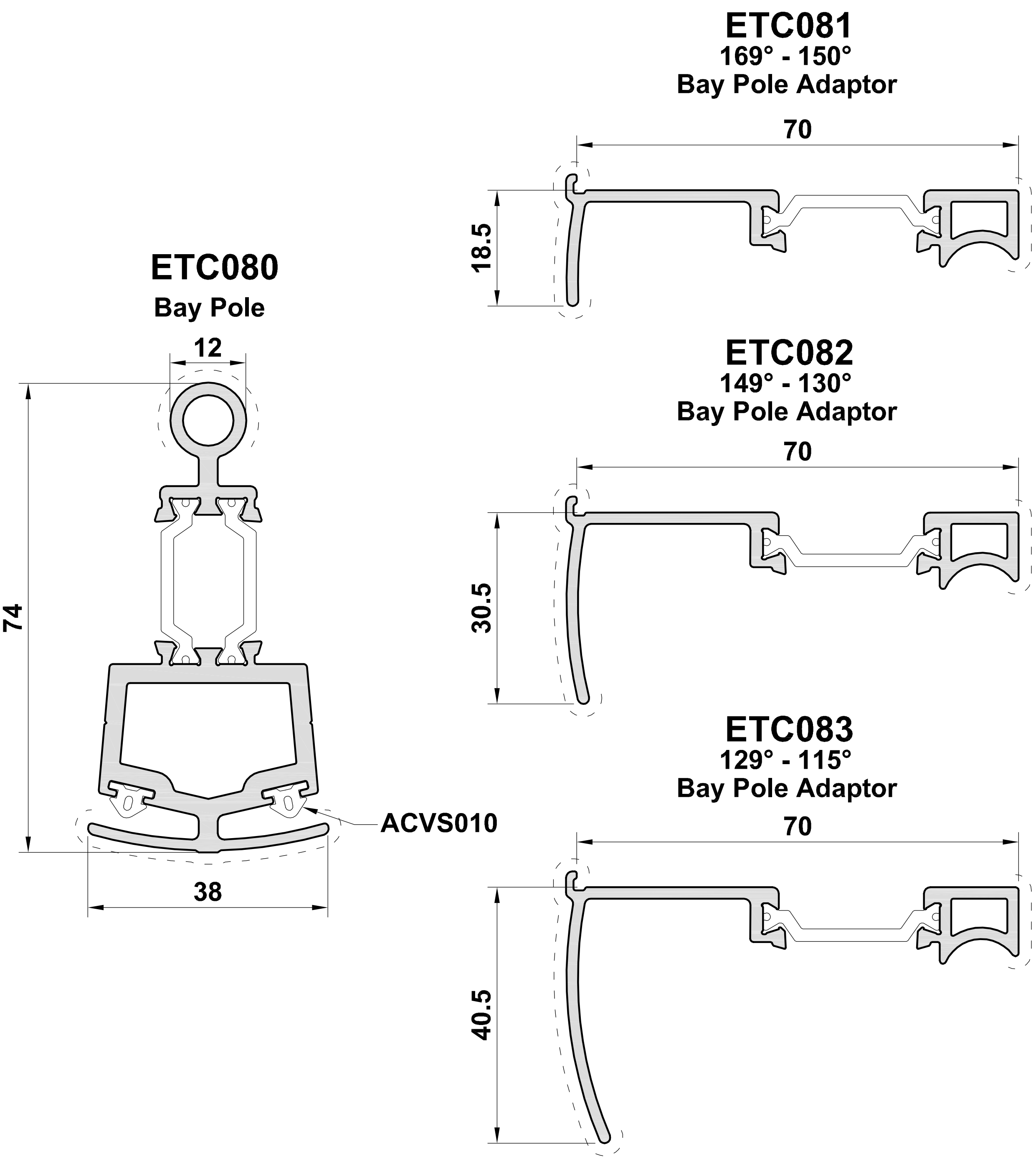
ETC347
90° Corner Post



Scale 1:1

Primary Visible Side

Secondary Visible Side

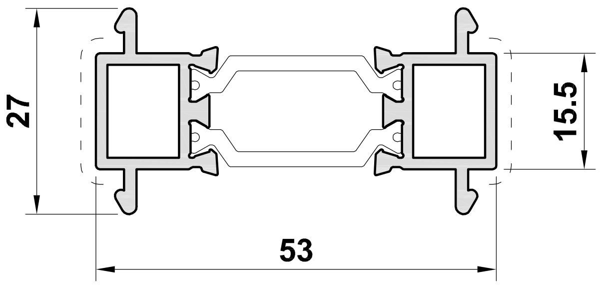


Scale 1:1

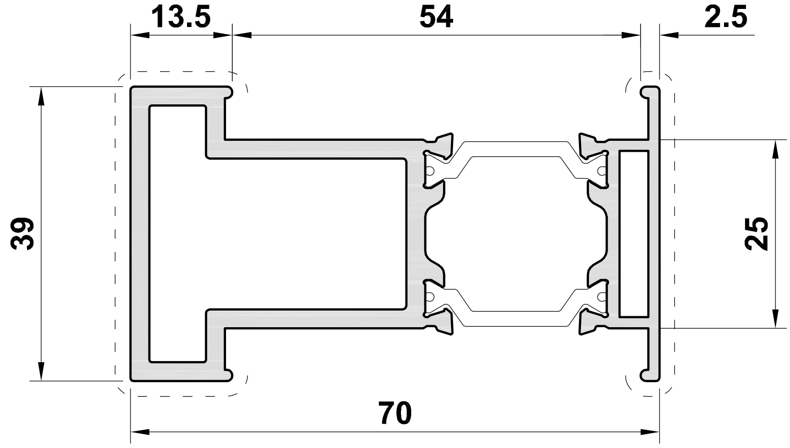
Primary Visible Side

Secondary Visible Side

ETC353
Coupler



ETC356
Coupler

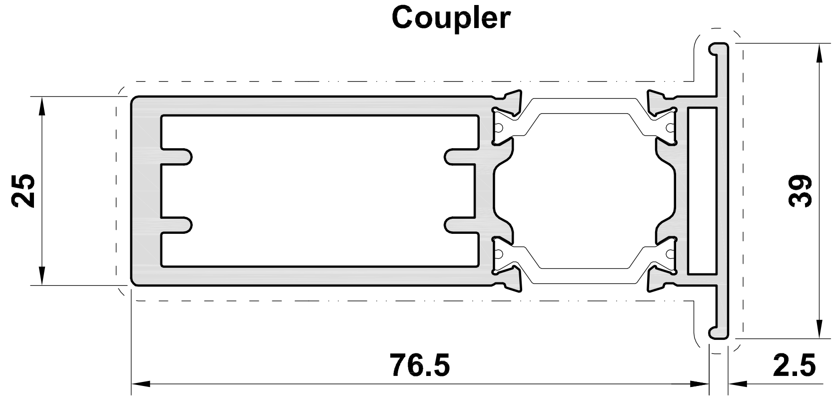


Scale 1:1

Primary Visible Side

Secondary Visible Side

ETC357
Coupler

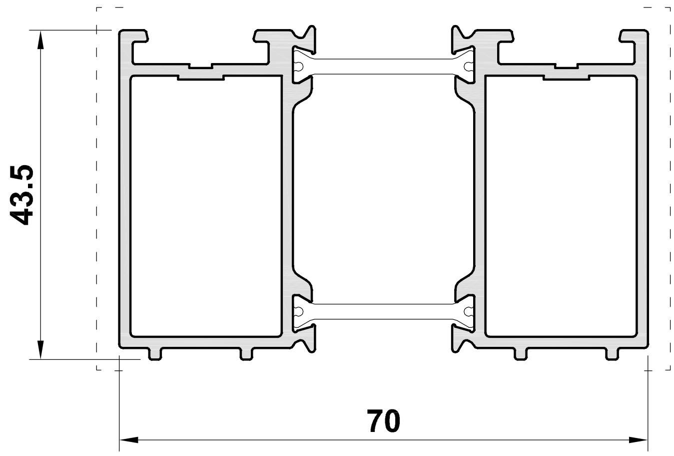


Scale 1:1

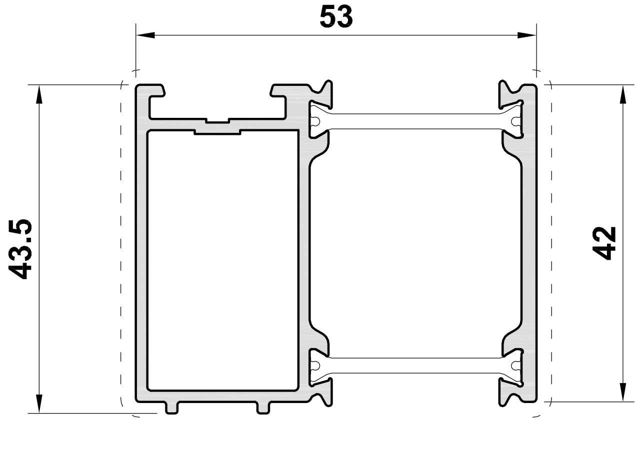
Primary Visible Side

Secondary Visible Side

DV515
70mm Head Extension



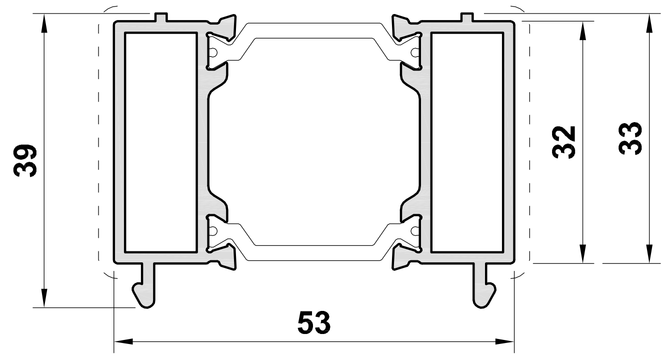
ETC352
Head Extension



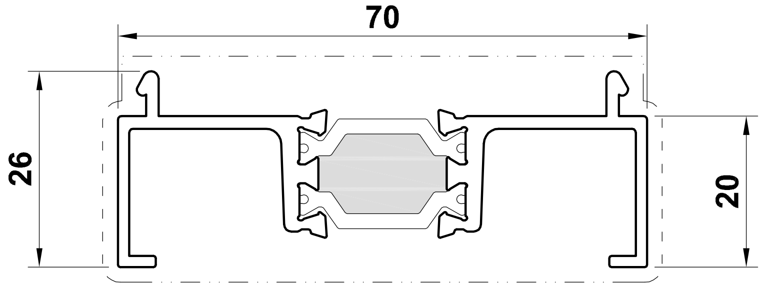
Scale 1:1

Primary Visible Side — Secondary Visible Side

ETC358
Head Extension



ETC559
20x70mm Frame Extension

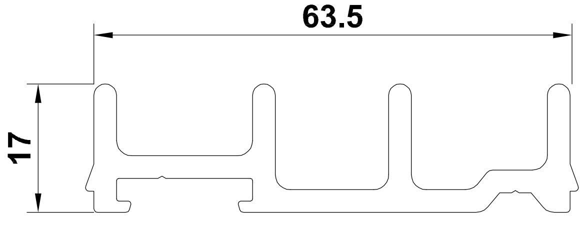


Scale 1:1

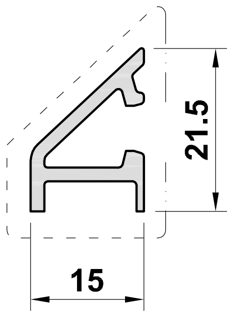
Primary Visible Side

Secondary Visible Side

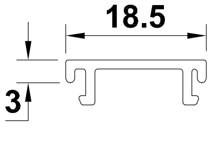
ETC052
PVC Closer / Insert



VL72
Drip / Weather Bar
End Caps: ACVL059



PCX41
PVC Infill

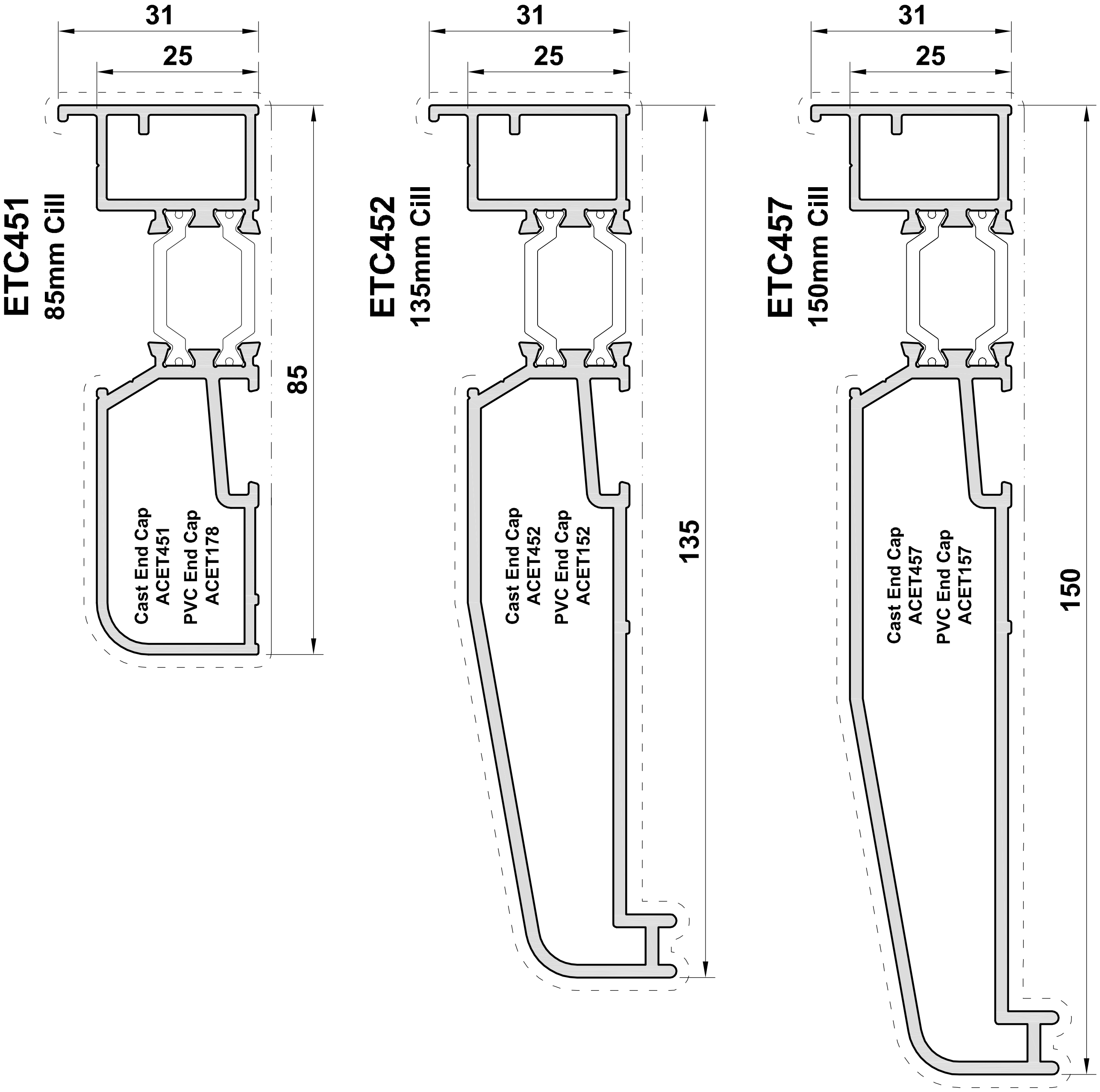


Scale 1:1

ISSUED : MAY 2016

Primary Visible Side

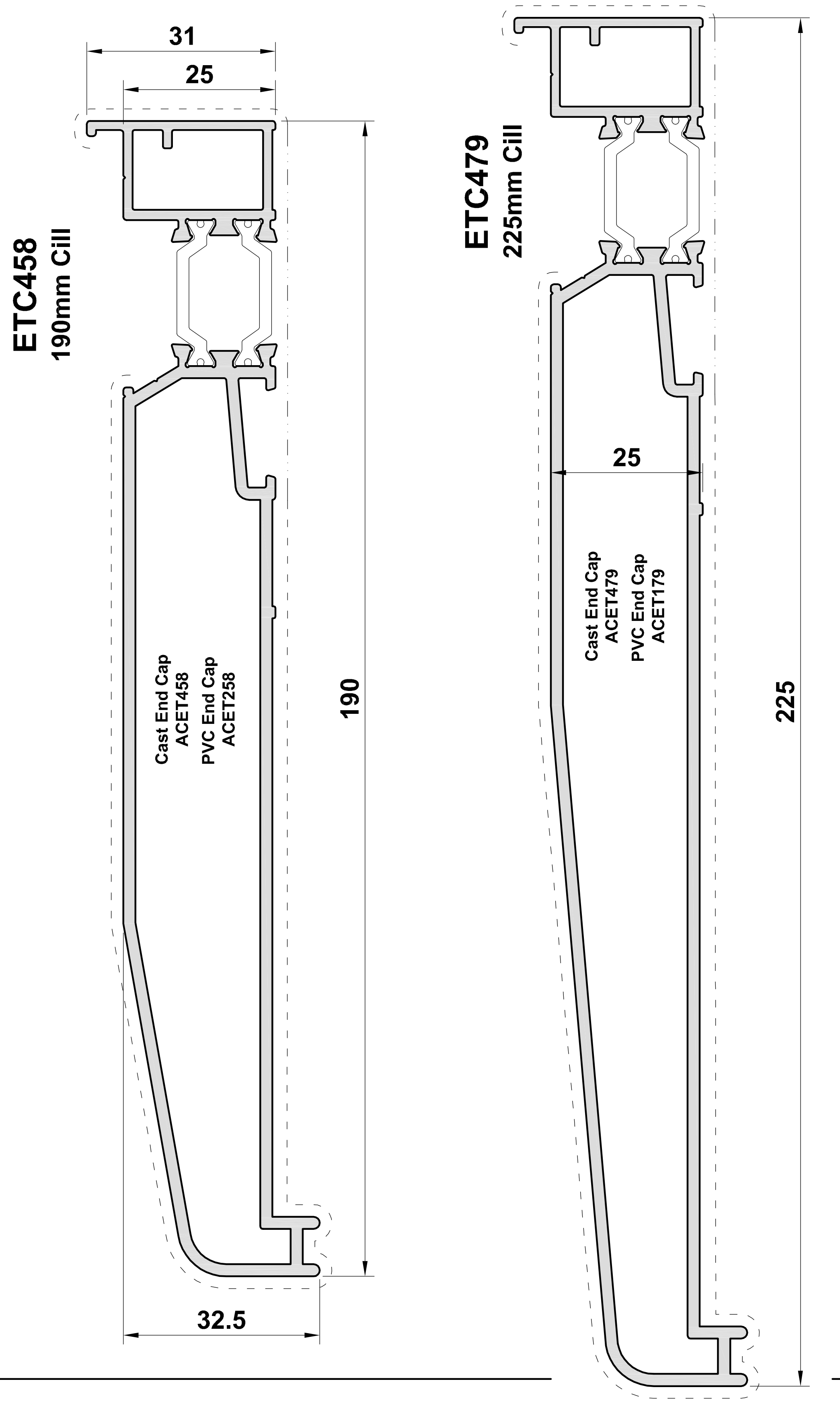
Secondary Visible Side



Scale 1:1

Primary Visible Side

Secondary Visible Side



Scale 1:1

ISSUED : MAY 2016

Primary Visible Side

Secondary Visible Side

Scale 1:1

Primary Visible Side

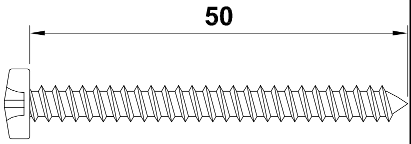
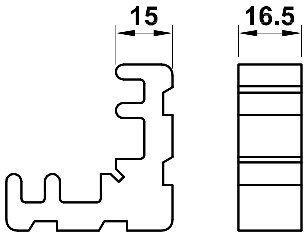
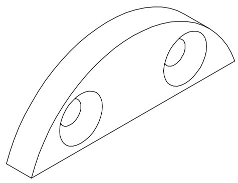
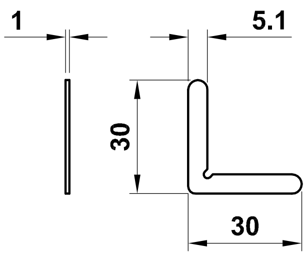
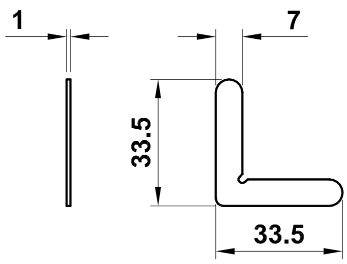
Secondary Visible Side

Scale 1:1

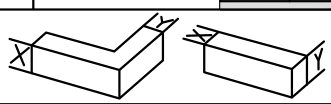
Section B

Accessories

Photos & Drawings

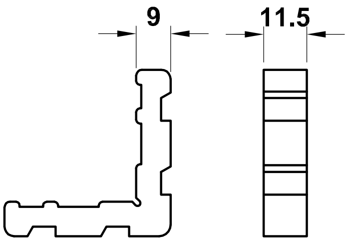
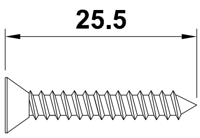
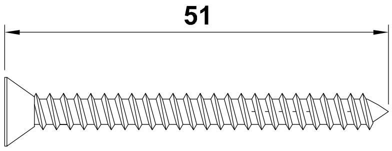
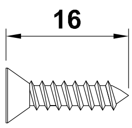
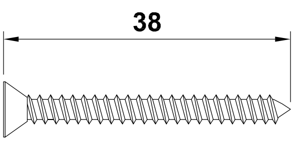
Image	Part Code	Pack	Unit	Application	Colour
	**ACDR052** No. 10 x 50 S/S Self Tapping Pan Head Screw	200	pack		MF ✓ SA KL HP M GOZ W Z PC
	**ACET013** Corner Cleat	24	pack	ETC424N	MF ✓ SA KL HP M GOZ W Z PC
	**ACET041** Cill Nose Bracket S/S	1	each	ETC457 ETC458 ETC479	MF ✓ SA KL HP M GOZ W Z PC
	**ACET044** Stainless Steel Chevron	100	pack	ETC323 ETC326 ETC329 ETC344 ETC345 ETC346	MF ✓ SA KL HP M GOZ W Z PC
	**ACET045** Stainless Steel Chevron	100	pack	ETC304/5/6 ETC310 ETC321 ETC326/7 ETC329 ETC343 ETC423	MF ✓ SA KL HP M GOZ W Z PC

MF = Mill Finish
SA = Silver Anodised
KL = Basic Colour
HP = Special Colour
M = Dual Colour
GOZ = Gold
PC = Polished Chrome
W = White
Z = Black



Alitherm 300

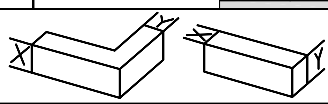
ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour
	**ACET049** **Corner Cleat**	24	pack	ETC324N	MF SA KL HP M GOZ W Z PC
	**ACET060** **No. 7 x 25 S/S Self Tapping CSK Screw**	100	pack	ETC328N	MF ✓ SA KL HP M GOZ W Z PC
	**ACET062** **No. 10 x 50 S/S Self Tapping CSK Screw**	100	pack	ETC347	MF ✓ SA KL HP M GOZ W Z PC
	**ACET064** **No. 8 x 16 S/S Self Tapping Pan Head Screw**	100	pack	Friction Hinges	MF ✓ SA KL HP M GOZ W Z PC
	**ACET066** **No. 7 x 38 S/S Self Tapping CSK Screw**	100	pack	ETC331 ETC333 ETD330	MF ✓ SA KL HP M GOZ W Z PC

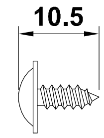
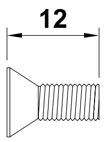
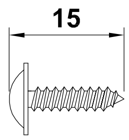
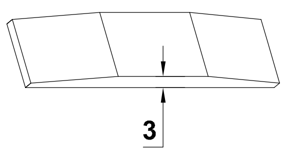

T-BARS
ACVG65=2.5mm
ACVG66=3.0mm
ACVL150=4.0mm


Screw (Grub)

MF = Mill Finish
SA = Silver Anodised
KL = Basic Colour
HP = Special Colour
M = Dual Colour
GOZ = Gold
PC = Polished Chrome
W = White
Z = Black



ISSUED : MAY 2016

Image	Part Code	Pack	Unit	Application	Colour
	**ACET068** **No. 8 x 10 S/S Self Tapping Flange Screw**	100	pack	Friction Hinges	MF ✓ SA KL HP M GOZ W Z PC
	**ACET069** **M5 x 12 S/S CSK Machine Screw**	100	pack	ACET165	MF ✓ SA KL HP M GOZ W Z PC
	**ACET070** **No. 8 x 13 S/S Self Tapping Flange Screw**	100	pack	Friction Hinges ETD351	MF ✓ SA KL HP M GOZ W Z PC
	**ACET080** **Cockspur Handle**	1	each	ACET083	MF SA ✓ KL HP M GOZ ✓ W ✓ Z ✓ PC
	**ACET083** **3mm Wedge**	100	pack	ACET080	MF SA KL HP M GOZ 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
M = Dual Colour
GOZ = Gold
PC = Polished Chrome
W = White
Z = Black

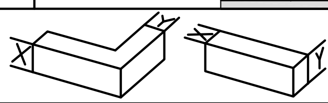
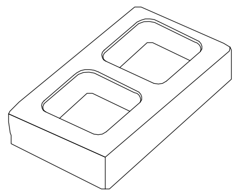
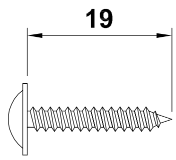
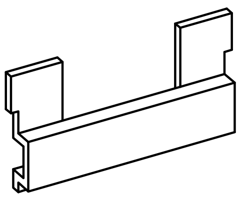
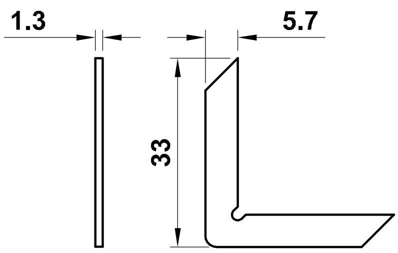
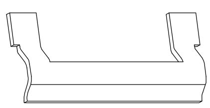
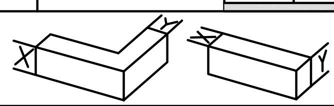
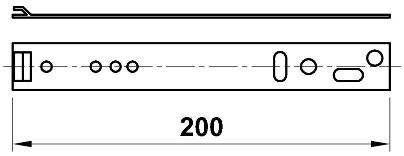
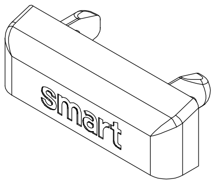
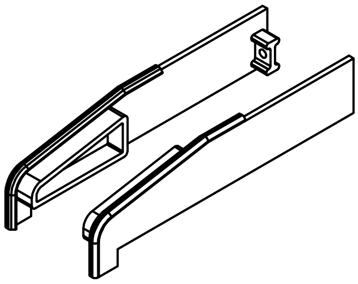
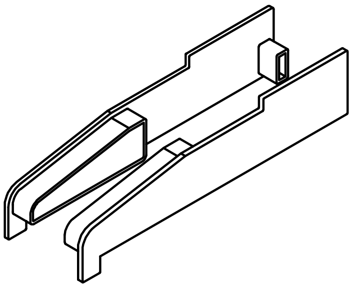


Image	Part Code	Pack	Unit	Application	Colour
	**ACET093** **Packers**	25	pack	ETC344 ETC345 ETC346	MF SA KL HP M GOZ W Z ✓ PC
	**ACET099** **No. 8 x 19 S/S Self Tapping Flange Screw**	100	pack	Friction Hinges	MF ✓ SA KL HP M GOZ W Z PC
	**ACET114** **Anti-Twist Clip**	100	pack	ETC333	MF ✓ SA KL HP M GOZ W Z PC
	**ACET115** **Outer Frame Chevron - For Fixed Light Only**	100	pack		MF SA KL HP M GOZ W Z PC
	**ACET125** **Anti-Twist Clip**	100	pack	ETC335	MF ✓ SA KL HP M GOZ W Z PC

MF = Mill Finish
SA = Silver Anodised
KL = Basic Colour
HP = Special Colour
M = Dual Colour
GOZ = Gold
PC = Polished Chrome
W = White
Z = Black



ISSUED : MAY 2016

Image	Part Code	Pack	Unit	Application	Colour
	**ACET130** Galvanised Steel Fixing Strap 200mm x 25mm x 1.5mm	100	pack	ETC303 ETC304 ETC305 ETC306 ETC308 ETC310 ETC313	MF ✓ SA KL HP M GOZ W Z PC
	**ACET131** Drainage Cover Cap	100	pack		MF SA KL HP M GOZ W Z ✓ PC
	**ACET152** Cill End Cap (pair)	10	pair	ACET452	MF SA KL HP M GOZ W ✓ Z ✓ PC
	**ACET157** Cill End Cap (pair)	10	pair	ETC457	MF SA KL HP M GOZ W ✓ Z ✓ PC
	**ACET165** Espagnolette Handle 9mm Spindle	1	each	Shootbolt Locking	MF SA KL HP M GOZ 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
M = Dual Colour
GOZ = Gold
PC = Polished Chrome
W = White
Z = Black

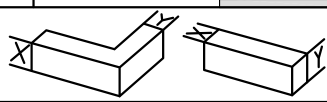
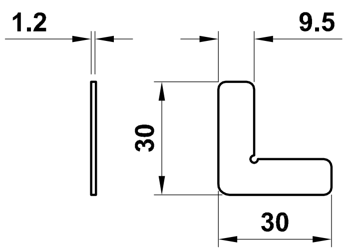
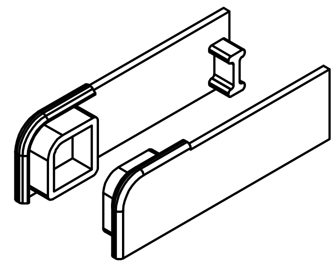
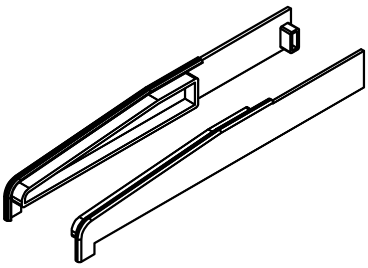
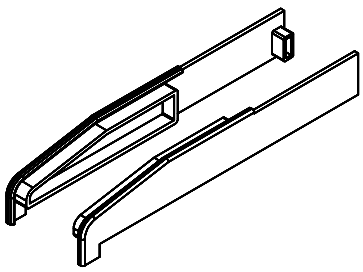
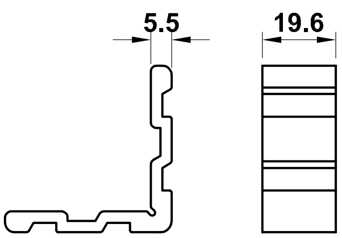


Image	Part Code	Pack	Unit	Application	Colour
	**ACET171** **Stainless Steel Chevron**	100	pack	ETC324	MF ✓ SA KL HP M GOZ W Z PC
	**ACET178** **Cill End Cap (pair)**	10	pair	ETC451	MF SA KL HP M GOZ W ✓ Z ✓ PC
	**ACET179** **Cill End Cap (pair)**	10	pair	ETC479	MF SA KL HP M GOZ W ✓ Z ✓ PC
	**ACET258** **Cill End Cap (pair)**	10	pair	ETC458	MF SA KL HP M GOZ W ✓ Z ✓ PC
	**ACET310** **Corner Cleat**	24	pack	ETC308 ETC310 ETC313	MF ✓ SA KL HP M GOZ W Z PC

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

Screw (Grub)

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GOZ = Gold
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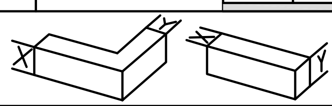
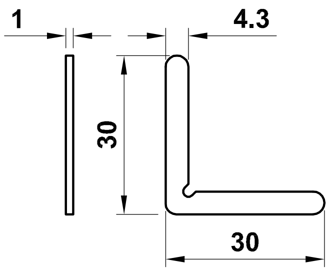
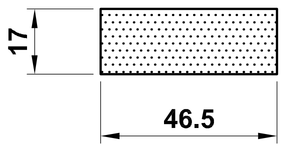
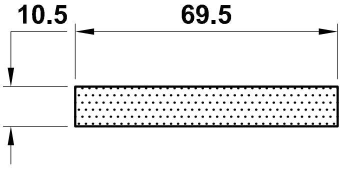
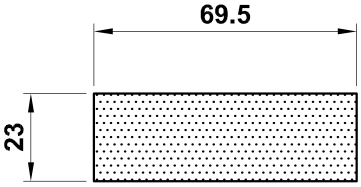
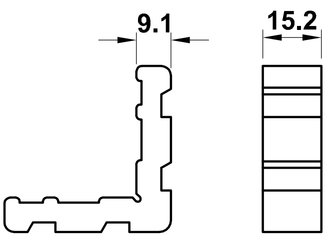


ISSUED : MAY 2016

Image	Part Code	Pack	Unit	Application	Colour
	**ACET311** **Stainless Steel Chevron**	50	pack	ETC303 ETC304 ETC305 ETC306 ETC313	MF ✓ SA KL HP M GOZ W Z PC
	**ACET312** **Foam Infill** **1250mm Lengths**	1	each	ETC310	MF SA KL HP M GOZ W Z PC
	**ACET314** **Foam Infill** **1250mm Lengths**	1	each		MF SA KL HP M GOZ W Z PC
	**ACET315** **Foam Infill** **1250mm Lengths**	1	each		MF SA KL HP M GOZ W Z PC
	**ACET316** **Cleat**	1	each		MF SA KL HP M GOZ W Z PC

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

Screw (Grub)

MF = Mill Finish
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HP = Special Colour
M = Dual Colour
GOZ = Gold
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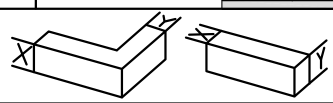
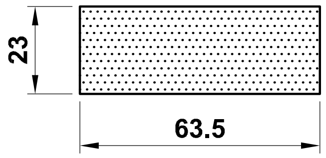
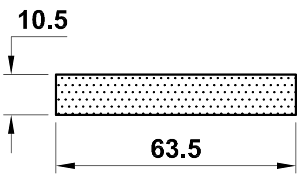
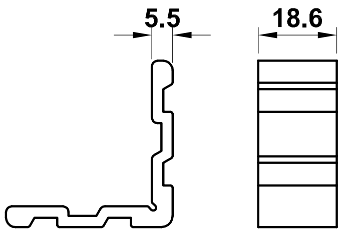
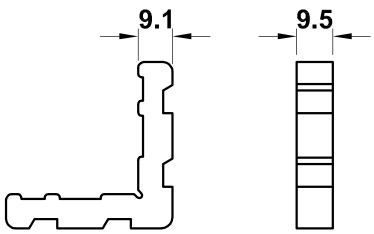
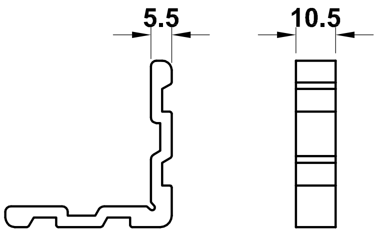


smart architectural aluminium

Alitherm 300

Image	Part Code	Pack	Unit	Application	Colour
	**ACET317** **Foam Infill 1250mm Lengths**	1	each	ETC303	MF SA KL HP M GOZ W Z PC
	**ACET318** **Foam Infill 1250mm Lengths**	1	each	ETC305	MF SA KL HP M GOZ W Z PC
	**ACET321** **Outer Corner Cleat**	24	pack	ETC321 ETC327	MF ✓ SA KL HP M GOZ W Z PC
	**ACET322** **Outer Corner Cleat**	24	pack	ETC323 ETC345 ETC346	MF ✓ SA KL HP M GOZ W Z PC
	**ACET323** **Inner Corner Cleat**	24	pack	ETC323 ETC324 ETC326 ETC329	MF ✓ SA KL HP M GOZ W Z PC

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

Screw (Grub)

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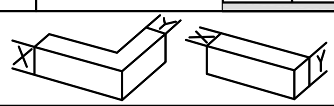
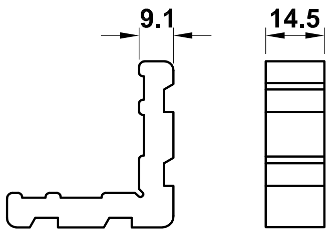
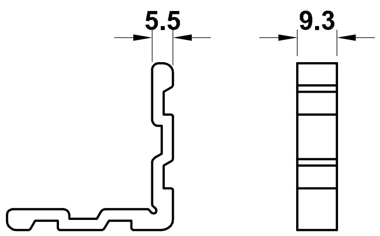
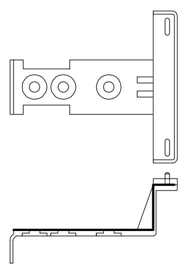
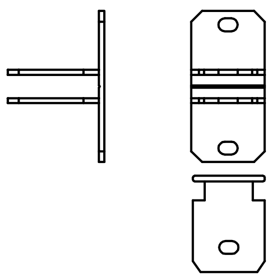
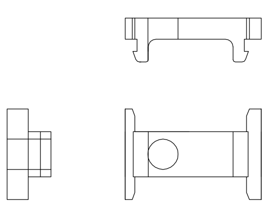
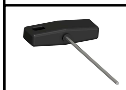


ISSUED : MAY 2016

Image	Part Code	Pack	Unit	Application	Colour
	**ACET326** **Corner Cleat**	24	pack	ETC326 ETC329	MF ✓ SA KL HP M GOZ W Z PC
	**ACET327** **Inner Corner Cleat**	24	pack	ETC321 ETC327 ETC328N	MF ✓ SA KL HP M GOZ W Z PC
	**ACET332** **Transom End Cap for French Casement**	10	pack	ETC333	MF SA KL HP M GOZ W ✓ Z ✓ PC
	**ACET333** **Cruciform Block**	10	pack	ETC333	MF ✓ SA KL HP M GOZ W Z PC
	**ACET334** **Transom Locator Block**	100	pack	ETC333	MF SA KL HP M GOZ W Z ✓ PC



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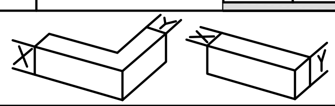
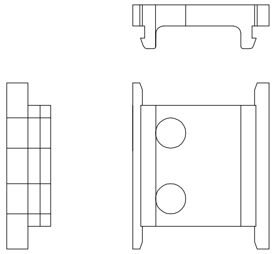
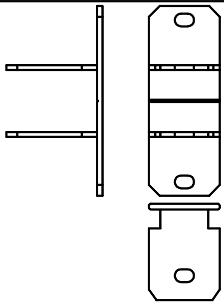
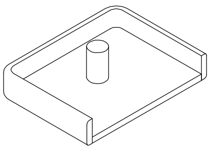
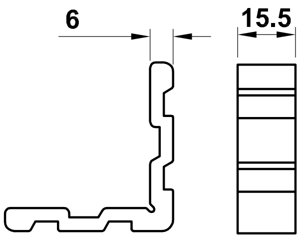
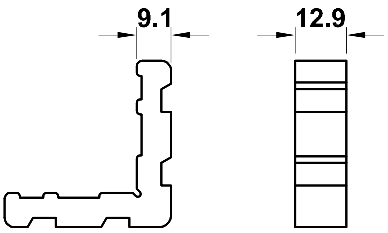


Image	Part Code	Pack	Unit	Application	Colour
	**ACET335** **Transom Locator Block**	100	pack	ETC335	MF SA KL HP M GOZ W Z ✓ PC
	**ACET336** **Cruciform Block**	10	pack	ETC335	MF ✓ SA KL HP M GOZ W Z PC
	**ACET339** **End Cap**	50	pack	ETC336	MF SA KL HP M GOZ W Z ✓ PC
	**ACET343** **Corner Cleat**	24	pack	ETC343	MF SA KL HP M GOZ W Z PC
	**ACET344** **Corner Cleat**	24	pack	ETC344	MF ✓ SA KL HP M GOZ W Z PC

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

Screw (Grub)

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GOZ = Gold
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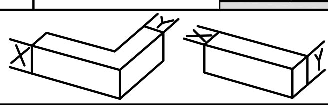
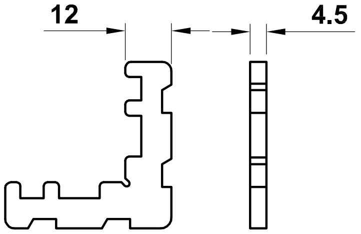
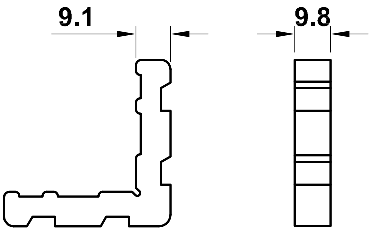
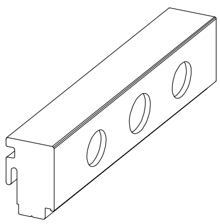
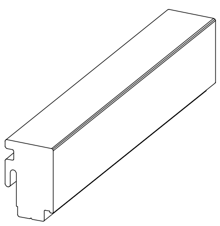
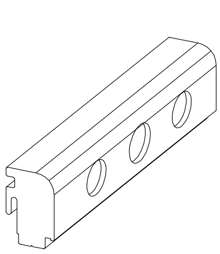


ISSUED : MAY 2016

Image	Part Code	Pack	Unit	Application	Colour
	**ACET345** **Corner Cleat**	24	pack	ETC343	MF SA KL HP M GOZ W Z PC
	**ACET346** **Corner Cleat**	24	pack	ETC345 ETC346	MF ✓ SA KL HP M GOZ W Z PC
	**ACET365** **Espag. Handle Fixing Block (94mm)**	1	each	ACET165 ETC323 ETC324 ETC326 ETC329 ETC367	MF ✓ SA KL ✓ HP ✓ M GOZ W ✓ Z ✓ PC
	**ACET366** **Cockspur Handle Fixing Block (94mm)**	1	each	ACET080 ETC323 ETC324 ETC326 ETC329 ETC367	MF ✓ SA KL ✓ HP ✓ M GOZ W ✓ Z ✓ PC
	**ACET367** **Curved Espag. Handle Fixing Block (94mm)**	1	each	ACET165 ETC323 ETC324 ETC326 ETC329 ETC367	MF ✓ SA KL ✓ HP ✓ M GOZ W ✓ Z ✓ PC

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

Screw (Grub)

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M = Dual Colour
GOZ = Gold
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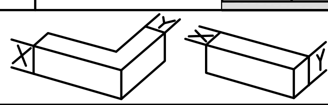
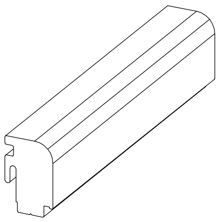
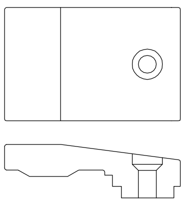
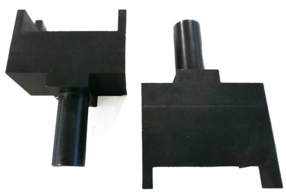
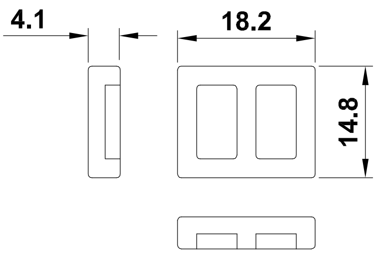
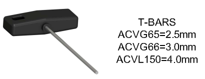


Alitherm 300

ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour
	**ACET368** **Curved Cockspur Handle Fixing Block (94mm)**	1	each	ACET165 ETC323 ETC324 ETC326 ETC329 ETC367	MF SA KL ✓ HP ✓ M GOZ W ✓ Z ✓ PC
	**ACET380** **Run Up Block**	100	pack		MF SA KL HP M GOZ W ✓ Z ✓ PC
	**ACET388** **Punch**	1	each	ETC423	MF SA KL HP M GOZ W Z PC
	**ACET389** **Punches For ETC303 / 304 / 305 / 306**	1	pair		MF SA KL HP M GOZ W Z PC
	**ACET393** **Packer for ETC346**	25	pack	ETC344 ETC345 ETC346	MF SA KL HP M GOZ W Z ✓ PC



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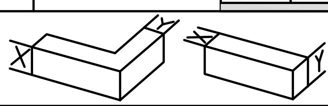
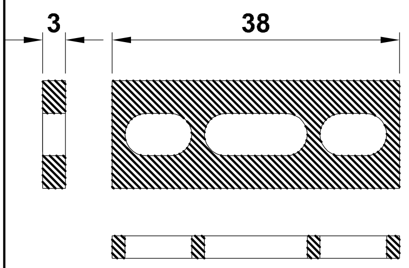
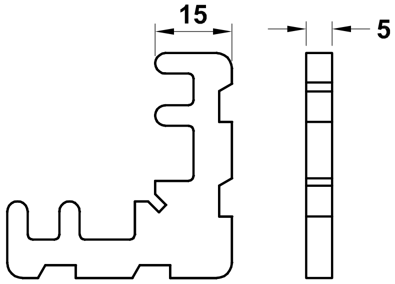
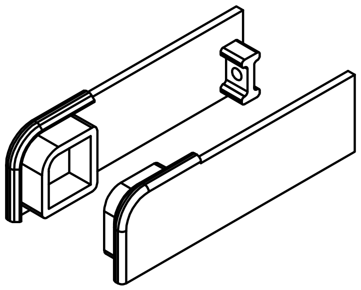
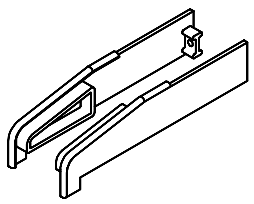
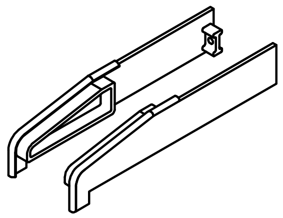


ISSUED : MAY 2016

Image	Part Code	Pack	Unit	Application	Colour
	**ACET394** **Stay Packer**	25	pack	ETC303 ETC304 ETC305 ETC306 ETC310 ETC313	MF SA KL HP M GOZ W Z ✓ PC
	**ACET424** **Cleat For Outer Chamber**	24	pack	ETC424N	MF SA KL HP M GOZ W Z PC
	**ACET451** **Cast Cill End Caps**	1	pair	ETC451	MF SA KL HP M GOZ W Z PC
	**ACET452** **Cast Cill End Caps**	1	pair	ETC452	MF SA KL HP M GOZ W Z PC
	**ACET457** **Cast Cill End Caps**	1	pair	ETC457	MF SA KL HP M GOZ W Z PC

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

Screw (Grub)

MF = Mill Finish
SA = Silver Anodised
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HP = Special Colour
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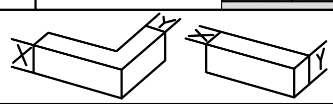

Alitherm 300

ACCESSORIES : PHOTOS & DRAWINGS

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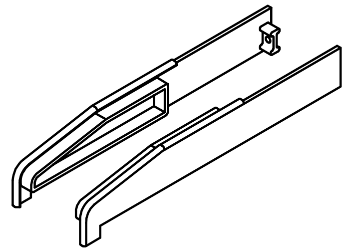
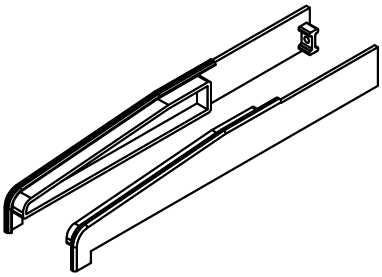
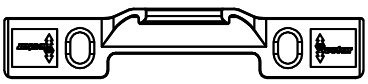
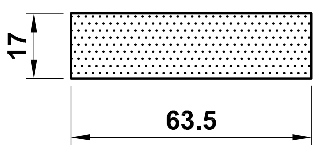
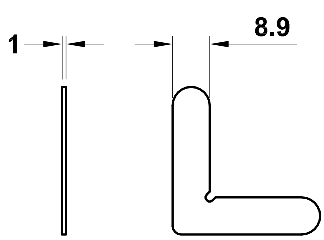
	**ACET458** **Cast Cill End Caps**	1	pair	ETC458	MF, SA, KL, HP, M, GOZ, W, Z, PC
	**ACET479** **Cast Cill End Caps**	1	pair	ETC479	MF, SA, KL, HP, M, GOZ, W, Z, PC
	**ACET513** **Cavity Hinge Protectors**	50	sets		MF, SA, KL, HP, M, GOZ, W, Z, PC
	**ACET619** **Foam Infill 1250mm Lengths**	1	each	ETC304 ETC306	MF, SA, KL, HP, M, GOZ, W, Z, PC
	**ACET824** **Chevron**	24	pack	ETC324N ETC328N	MF ✓, SA, KL, HP, M, GOZ, W, Z, PC

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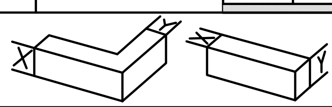

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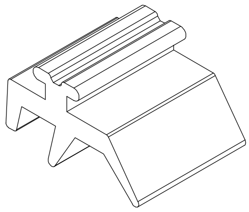
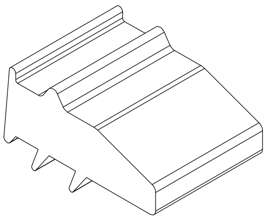
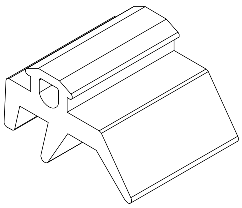
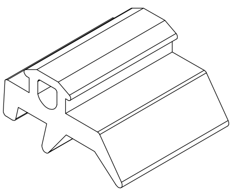
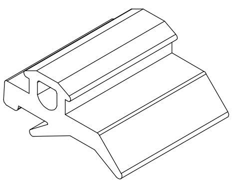
	**ACET835** **Low Line External Gasket**	200	m	ETC364 ETC370 ETC371 ETC375	MF SA KL HP M GOZ W Z ✓ PC
	**ACET840** **5mm Low Line Internal Wedge Gasket**	150	m	ETC310 ETC364	MF SA KL HP M GOZ W Z ✓ PC
	**ACET841** **4mm Low Line External Gasket**	200	m		MF SA KL HP M GOZ W Z ✓ PC
	**ACET842** **3mm Low Line External Gasket**	200	m		MF SA KL HP M GOZ W Z ✓ PC
	**ACET843** **2mm Low Line External Gasket**	200	m		MF SA KL HP M GOZ W Z ✓ PC

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

Screw (Grub)

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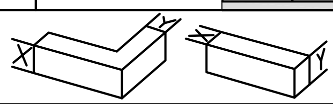
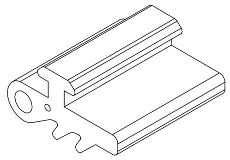
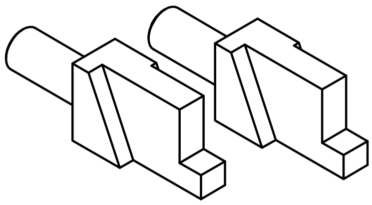
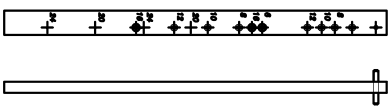
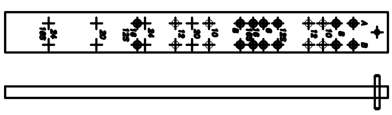


Image	Part Code	Pack	Unit	Application	Colour
	**ACET845** **3mm Low Line Slide In Gasket**	**100**	**m**		MF SA KL HP M GOZ W Z ✓ PC
	**ACET904** **Crimping Punch**	**1**	**pair**	**ETC308 ETC310 ETC313 ETC423**	MF SA KL HP M GOZ W Z PC
	**ACET911** **Friction Hinge Drill Jig** **For Standard Top Hung**	**1**	**each**		MF SA KL HP M GOZ W Z PC
	**ACET913** **Crimping Punch**	**1**	**pair**	**ETC328N**	MF SA KL HP M GOZ W Z PC
	**ACET941** **Friction Hinge Drill Jig** **For Standard Top & Side Hung**	**1**	**each**	**ETC423 ETC321 ETC323 ETC324 ETC326 ETC327 ETC328N ETC329**	MF SA KL HP M GOZ W Z PC

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

Screw (Grub)

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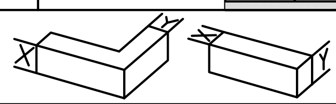

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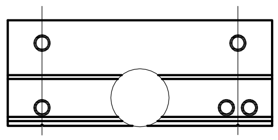
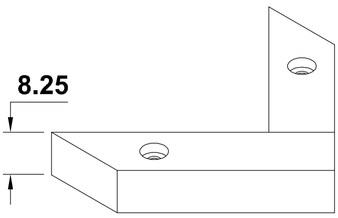
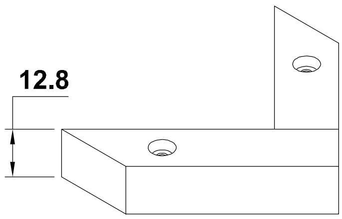
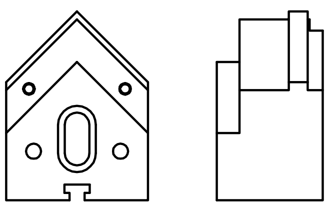
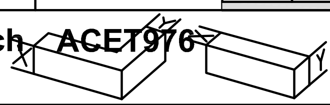
	**ACET945** **Transom/Mullion Drill Jig**	1	each	ETC333 ETC335	MF SA KL HP M GOZ W Z PC
	**ACET948** **Punch Tool**	1	each	ETC324	MF SA KL HP M GOZ W Z PC
	**ACET968** **8.25mm Packer**	1	each	ACET979 ETC346	MF SA KL HP M GOZ W Z PC
	**ACET969** **12.8mm Packer**	1	each	ACET979 ETC326 ETC329	MF SA KL HP M GOZ W Z PC
	**ACET976** **Vee Block**	1	each	ACET977	MF SA KL HP M GOZ W Z PC
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm  Screw (Grub)		1	each	ACET976 	

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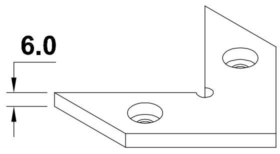
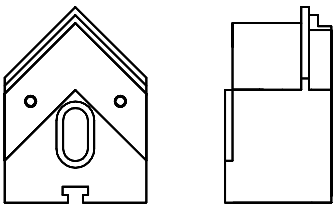
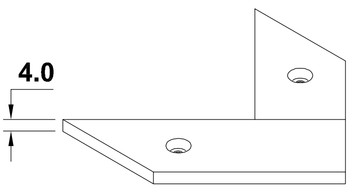
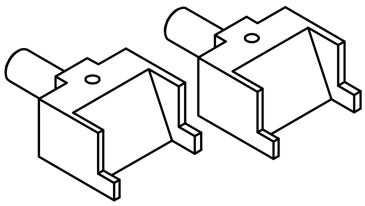
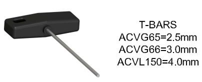
	**ACET977** **6mm Packer**	**1**	**each**	**ACET976**	MF SA KL HP M GOZ W Z PC
	**ACET978** **Crimping Punch**	**1**	**pair**	**ETC315**	MF SA KL HP M GOZ W Z PC
	**ACET979** **Vee Block**	**1**	**each**	**ETC323** **ETC324** **ETC346** **ETC621**	MF SA KL HP M GOZ W Z PC
	**ACET980** **11.8mm Packer**	**1**	**each**	**ACET979** **ETC324**	MF SA KL HP M GOZ W Z PC
	**ACET981** **Crimping Punch**	**1**	**pair**	**ETC321** **ETC323** **ETC324** **ETC326** **ETC327** **ETC329** **ETC344** **ETC345** **ETC346**	MF SA KL HP M GOZ W Z PC



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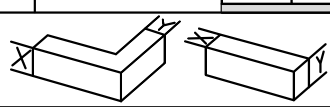

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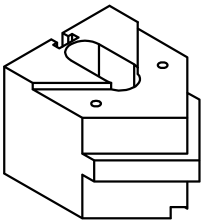
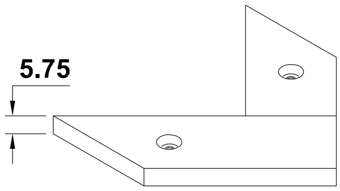
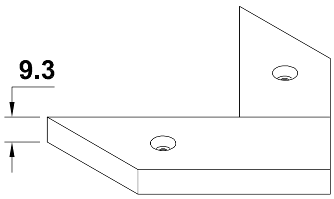
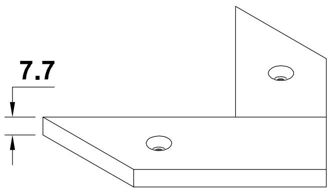
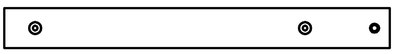
	**ACET982** **Vee Block**	1	each	ACET983 ETC310 ETC313 ETC328N ETC423	MF SA KL HP M GOZ W Z PC
	**ACET983** **5.75mm Packer**	1	each	ACET979 ACET982 ETC310 ETC313 ETC328N ETC344 ETC345 ETC423	MF SA KL HP M GOZ W Z PC
	**ACET990** **9.3mm Packer**	1	each	ACET979 ACET982 ETC308 ETC344 ETC345	MF SA KL HP M GOZ W Z PC
	**ACET991** **7.7mm Packer**	1	each	ACET979 ETC323	MF SA KL HP M GOZ W Z PC
	**ACETME93** **Drill Jig**	1	each	ACETME13	MF SA KL HP M GOZ W Z PC

T-BARS
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ACVG66=3.0mm
ACVL150=4.0mm

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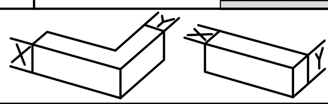

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ACCESSORIES : PHOTOS & DRAWINGS

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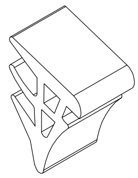
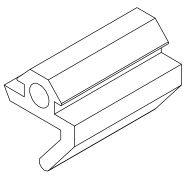
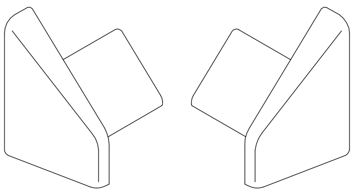
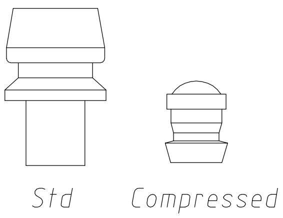
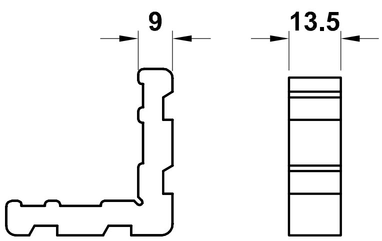
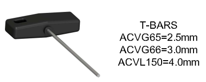
	**ACVG49** **6mm Wedge Glazing Gasket**	100	m	ETC314	MF SA KL HP M GOZ W Z ✓ PC
	**ACVL032** **Glazing Gasket**	100	m		MF SA KL HP M GOZ W Z PC
	**ACVL059** **End Caps**	1	pair	VL72	MF SA KL HP M GOZ W ✓ Z ✓ PC
	**ACVL061** **Rivet**	100	pack	VL72	MF ✓ SA KL HP M GOZ W Z PC
	**ACW20017** **Corner Cleat**	24	pack	ETC328N	MF SA KL HP M GOZ W Z PC



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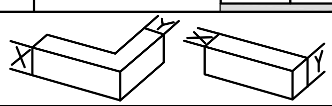

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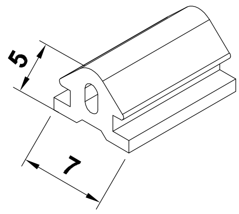
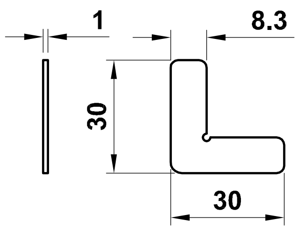
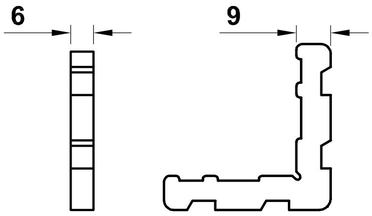
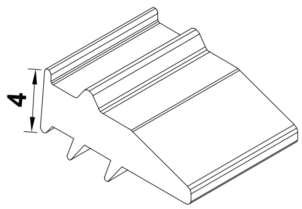
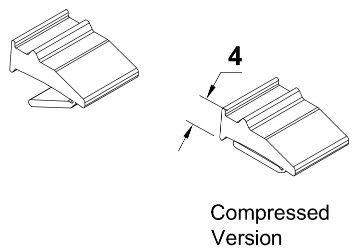
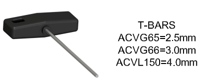
	**ACVS010** **PVC Insert**	7.3	m	ETC080	MF SA KL HP M GOZ W Z ✓ PC
	**ACW20024** **Stainless Steel Chevron**	100	pack	ETC324N ETC424N	MF ✓ SA KL HP M GOZ W Z PC
	**ACW20026** **Corner Cleat**	24	pack	ETC303 ETC306	MF SA KL HP M GOZ W Z PC
	**ACW20034** **4mm Low Line Internal Wedge Gasket**	200	m		MF SA KL HP M GOZ W Z ✓ PC
	**ACW20038** **4mm Low Line Internal Wedge Gasket with 1mm tear away strip**	200	m		MF SA KL HP M GOZ W Z ✓ PC



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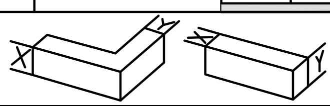
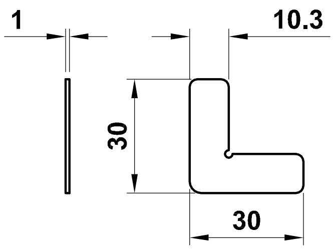
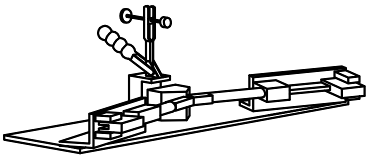


Image	Part Code	Pack	Unit	Application	Colour
	**WCA106** **Stainless Steel Chevron**	50	pack	ETC315	MF ✓ SA KL HP M GOZ W Z PC
	**WUT024HSZA** **Manual Crimper** **Note: Vee blocks & punches are sold separately.** **Please see Page E04.**	1	each		MF SA KL HP M GOZ W Z PC
					MF SA KL HP M GOZ W Z PC
					MF SA KL HP M GOZ W Z PC
					MF SA KL HP M GOZ W Z PC

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

Screw (Grub)

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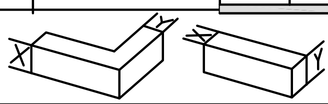
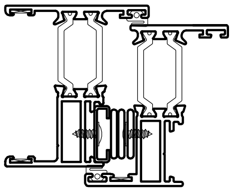


ISSUED : MAY 2016



Friction Hinge Stays 13mm Stack (Standard)

Top Hung Windows

Top Hung	Type of Hinge / Stay	Max. Vent Weight (kgs)	Height Mimimum	Height Maximum	Typical Width
ACINDS10	Standard	16	275	400	–
ACINDS16		21	400	780	–
ACINDS20		20	700	1100	–
ACINDS24		40	850	1300	–
ACINDA10	Austenitic	16	275	400	–
ACINDA16		21	400	780	–
ACINDA20		20	700	1100	–
ACINDA24		40	850	1300	–
ACINDR12	Restricted	20	350	550	–
ACINDR16		21	500	780	–
ACINDR20		26	700	1100	–
ACINDR24		40	850	1300	–

Side Hung Windows

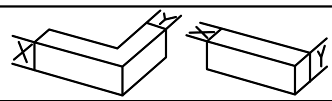
Side Hung	Type of Hinge / Stay	Max. Vent Weight (kgs)	Width Minimum	Width Maximum	Typical Height
ACINDSSH12	Standard	22	300	600	-
ACINDSSH16		28	400	600	-
ACINDASH12	Austenitic	22	300	600	-
ACINDASH16		28	400	600	-
ACINDRSH12	Restricted	22	300	600	-
ACINDRSH16		24	400	600	-
ACETME13	Egress	40	400	900	-

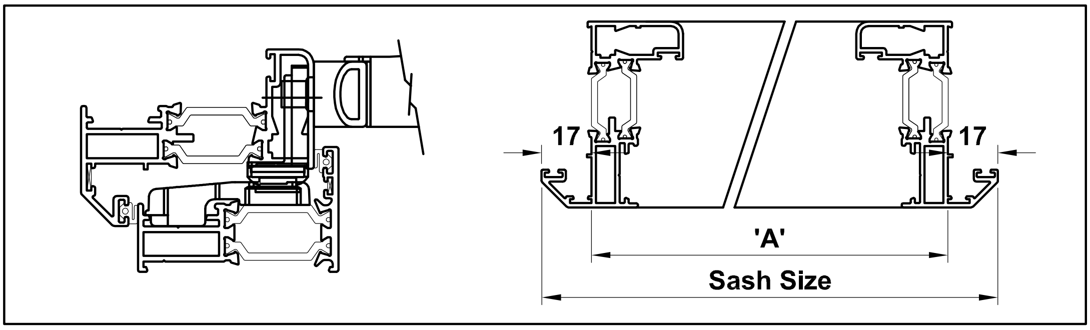
Note1: Vent Height / Width is measured in mm from rebate to rebate (not overall size or outer frame)
Note2: Top hung height and side hung width sizes to be reduced by 2mm where size is 450mm or smaller
Note3: Typical Dimensions based on Max. Size and Glass 30kg/metre
Note4: * ACINVSH12 has a minimum order of 25 pairs

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

Screw (Grub)

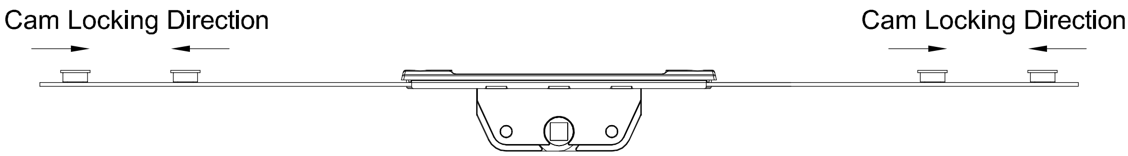
MF = Mill Finish
SA = Silver Anodised
KL = Basic Colour
HP = Special Colour
M = Dual Colour
GOZ = Gold
PC = Polished Chrome
W = White
Z = Black

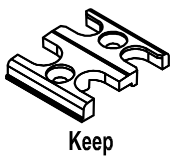




Part Code	Rod Length (mm)	Number of Keeps	Sash Rebate Size ('A')	
			Minimum	Maximum
ACET301L ACET301R	335	2	340	505
ACET302L ACET302R	500	2	506	755
ACET303L ACET303R	750	2	756	1005
ACET304L ACET304R	1000	4	1006	1255
ACET305L ACET305R	1250	4	1256	1400

Note: To Suit Handle ACET165





T-BARS
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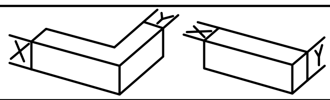

ISSUED : MAY 2016

Image	Part Code	Pack	Unit	Application	Colour
	**ACMX09700** **Alu. Polish**	1	each		MF ✓ SA KL HP M GOZ W Z PC
	**ACMX09761** **Maxi Gloss**	1	each		MF SA KL HP M GOZ W Z PC
	**ACMX09762** **Alu. Bright**	1	each		MF SA KL HP M GOZ W Z PC
	**ACMX09763** **Teflon Spray**	1	each		MF SA KL HP M GOZ W Z PC
	**ACMX09764** **Maxi Clean**	1	each		MF SA KL HP M GOZ W Z PC

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

Screw (Grub)

MF = Mill Finish
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HP = Special Colour
M = Dual Colour
GOZ = Gold
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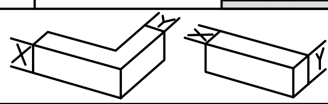
Z = Black



Alitherm 300

STANDARD ACCESSORIES

Image	Part Code	Pack	Unit	Application	Colour
	**ACMX09765** **Alu. Cleaner**	1	each		MF SA KL HP M GOZ W Z PC
	**ACMX09770** **Roll & Wrap 100mm**	1	each		MF SA KL HP M GOZ W Z PC
	**ACMX09775** **Grip Handwrap**	1	each		MF SA KL HP M GOZ W Z PC
	**ACMX09801** **Protective Tape 50mm**	1	each		MF SA KL HP M GOZ W Z PC
	**ACMX09802** **Protective Tape 70mm**	1	each		MF SA KL HP M GOZ W Z PC

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

Screw (Grub)

MF = Mill Finish
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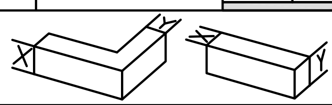
KL = Basic Colour
HP = Special Colour
M = Dual Colour
GOZ = Gold
W = White
Z = Black



ISSUED : MAY 2016

Image	Part Code	Pack	Unit	Application	Colour
	**ACMX09803** **Protective Tape 100mm**	1	each		MF, SA, KL, HP, M, GOZ, W, Z, PC
	**ACMX09830** **Rubber Sealant**	1	each		MF, SA, KL, HP, M, GOZ, 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, M, GOZ, W ✓, Z ✓, PC
	**ACSIL08** **Silicon Gun**	1	each		MF, SA, KL, HP, M, GOZ, W, Z, PC
	**ACSIL013** **Glue for Mitre**	1	each		MF, SA, KL, HP, M, GOZ, W, Z, PC

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

Screw (Grub)

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KL = Basic Colour
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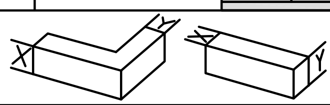

Alitherm 300

STANDARD ACCESSORIES

Image	Part Code	Pack	Unit	Application	Colour
	**ACSIL014** **Anti-Corrosion Coating**	**1**	**each**		MF ✓ SA KL HP M GOZ W Z PC
					MF SA KL HP M GOZ W Z PC
					MF SA KL HP M GOZ W Z PC
					MF SA KL HP M GOZ W Z PC
					MF SA KL HP M GOZ W Z PC

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

Screw (Grub)

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KL = Basic Colour
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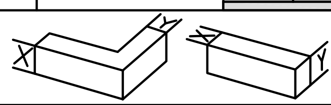

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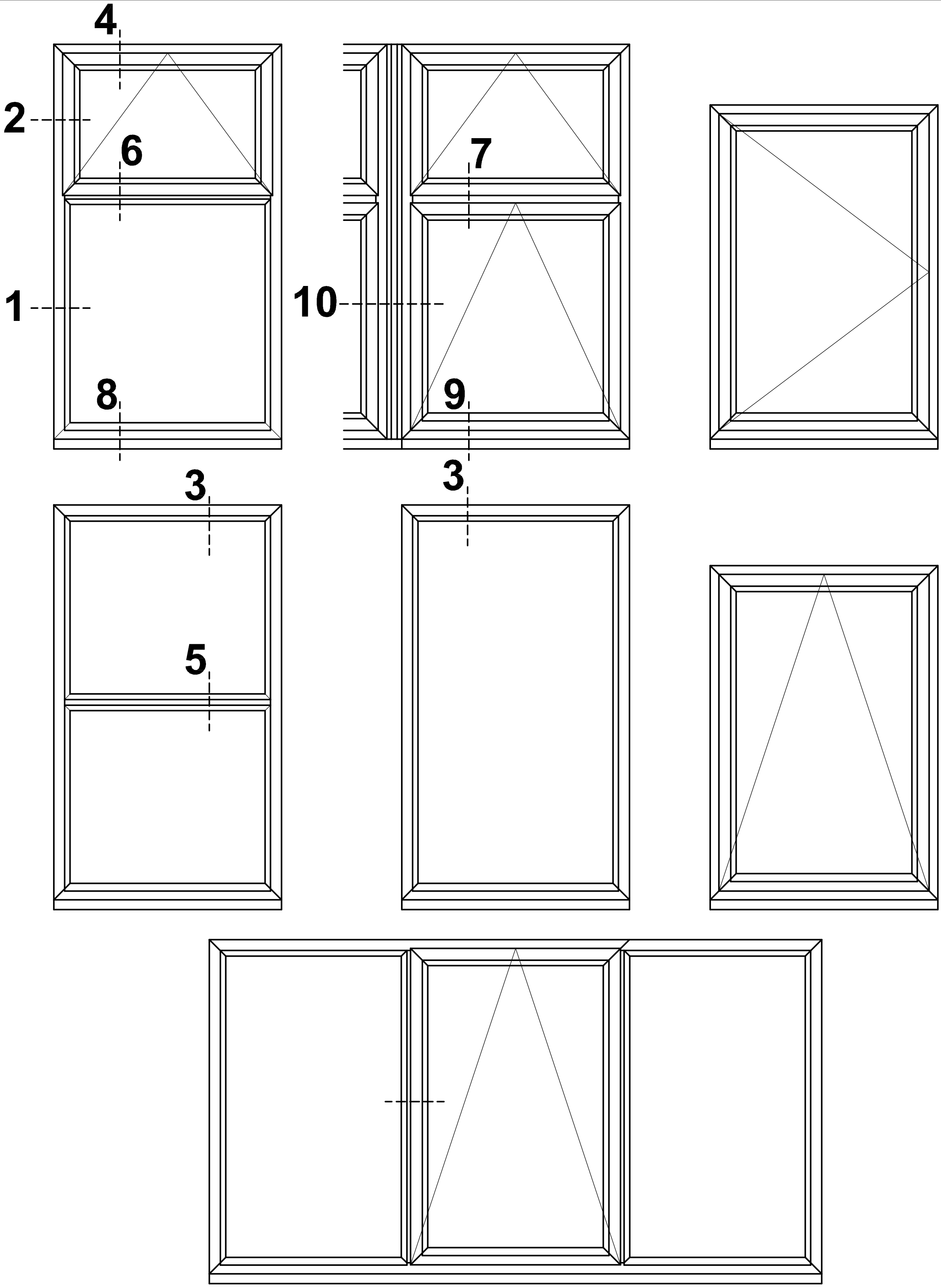
Section C

Sections

Scale Elevations

Scale Elevations



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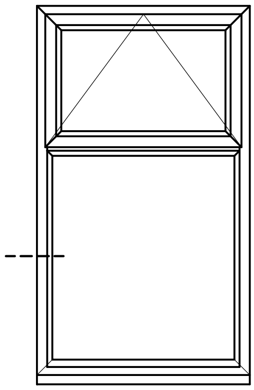
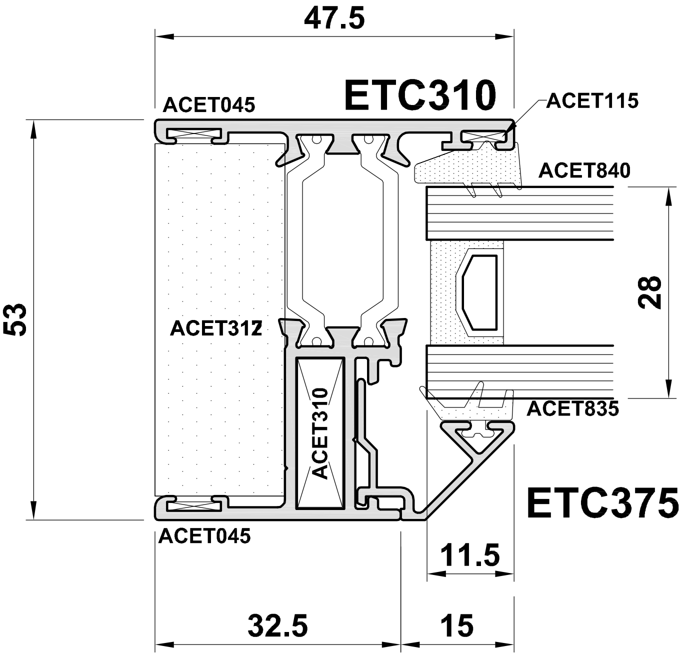
Detail 1A





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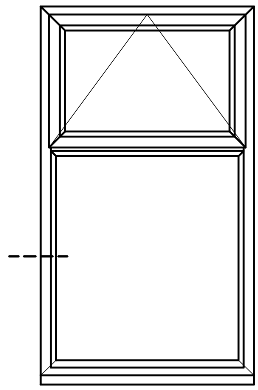
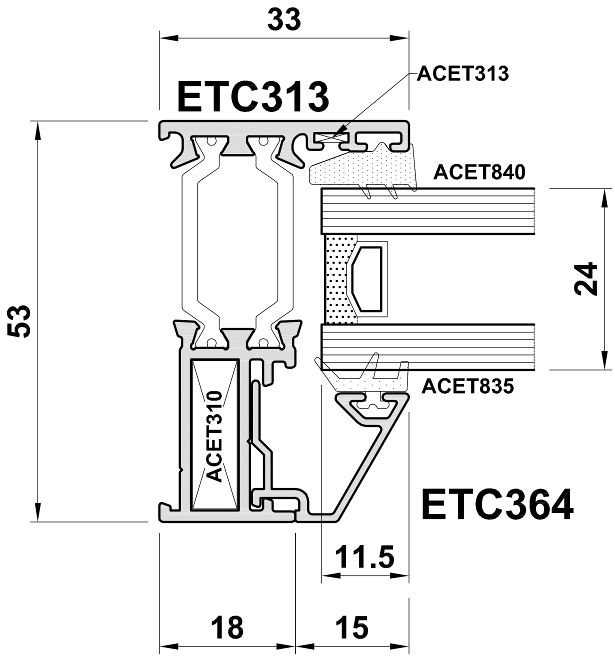
Detail 1B





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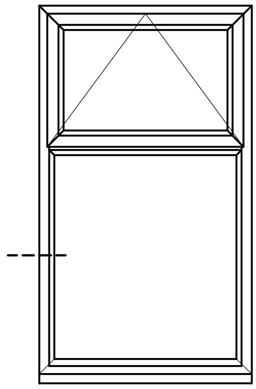
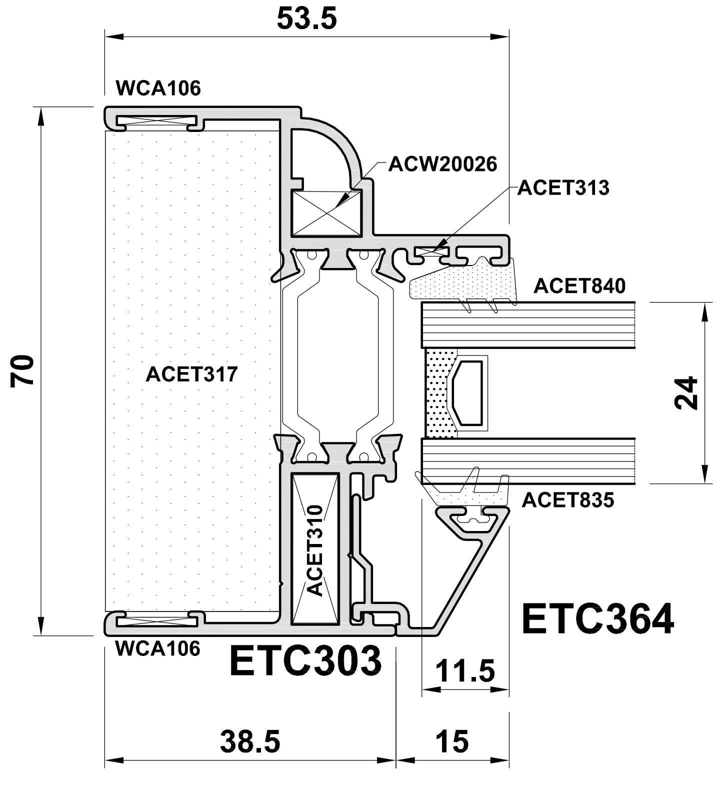
Detail 1C





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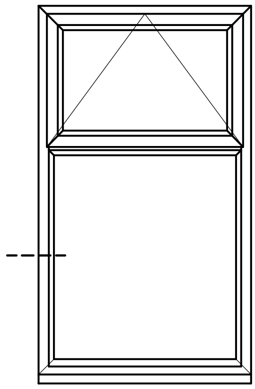
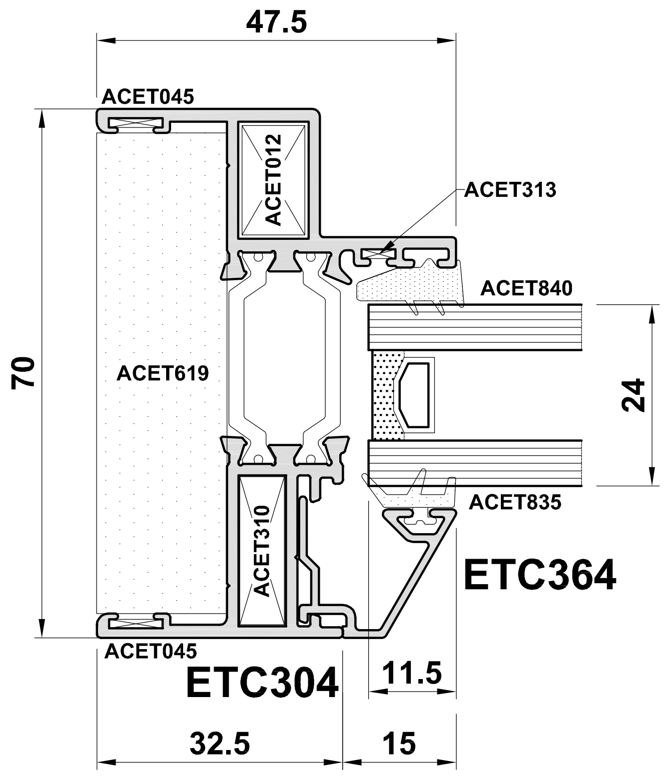
ISSUED : MAY 2016

Detail 1D





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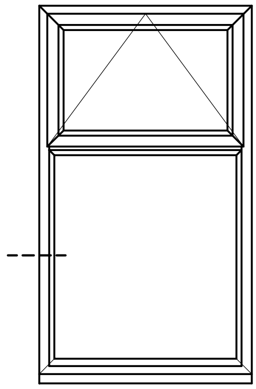
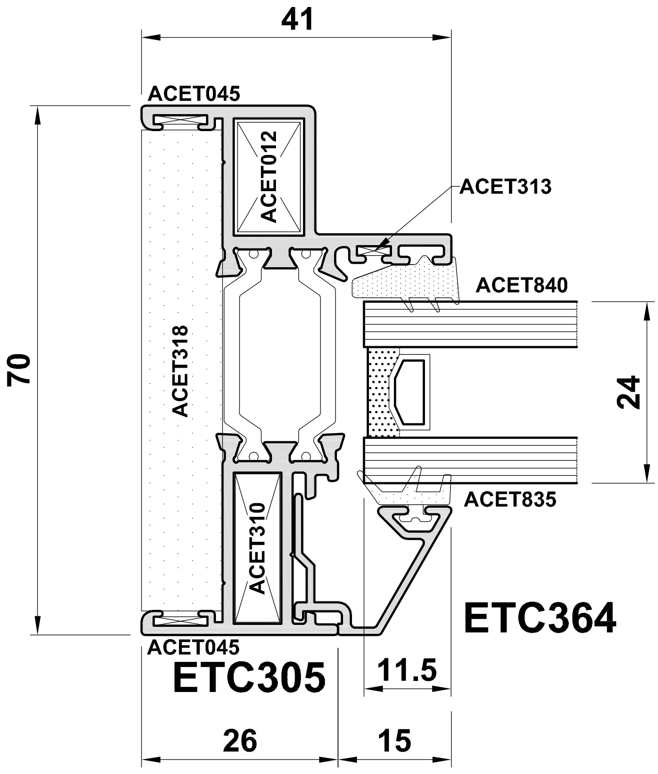
Detail 1E





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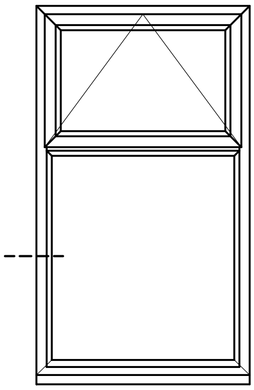
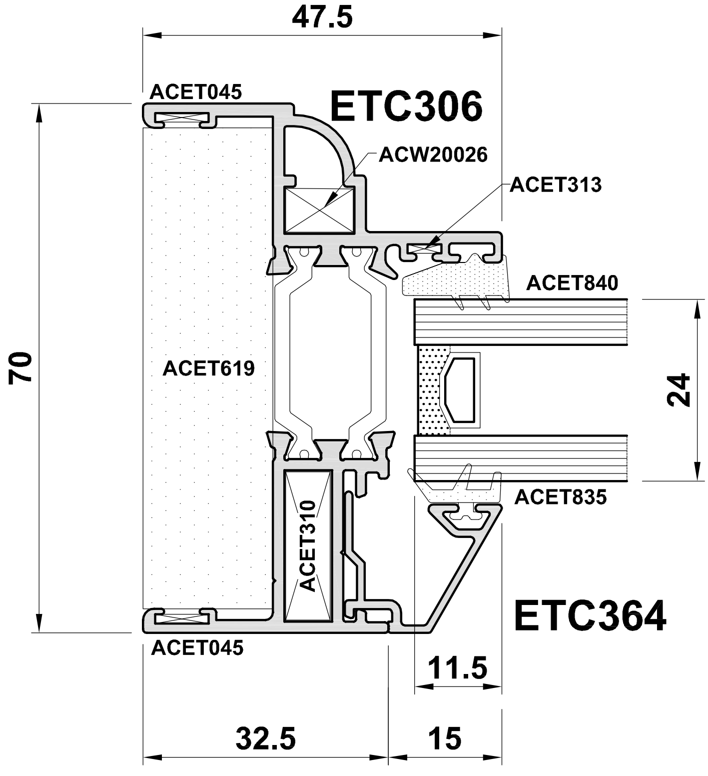
Detail 1F





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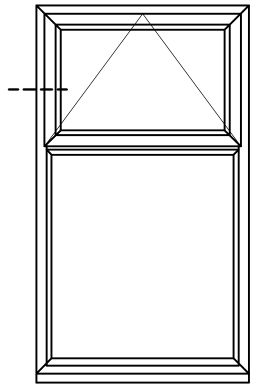
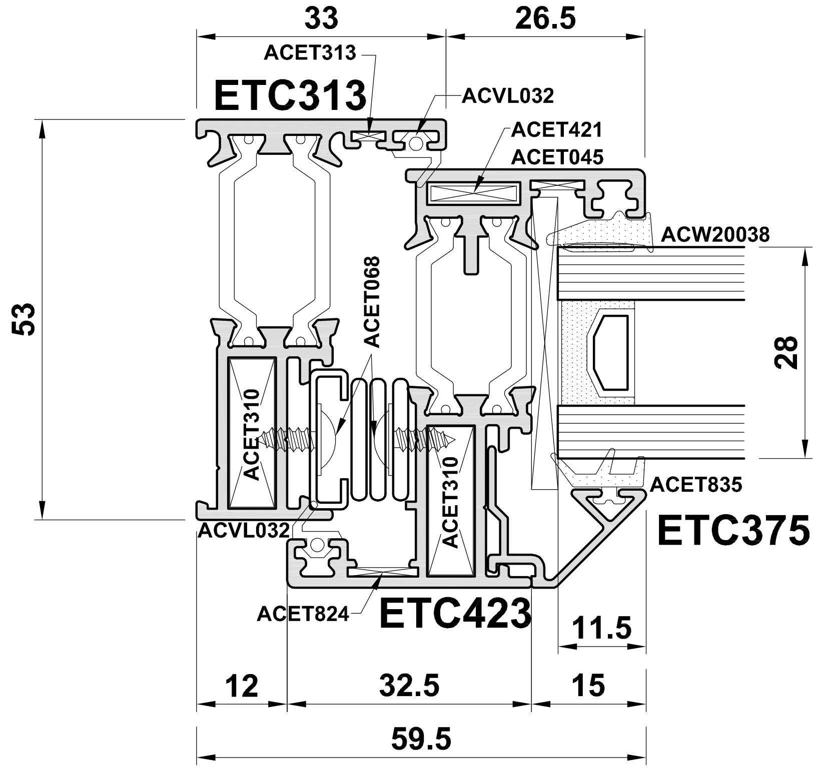
Detail 2A





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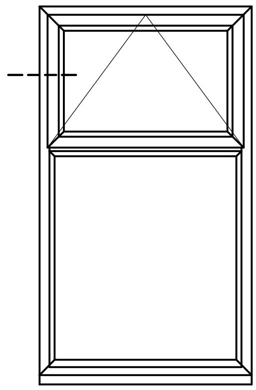
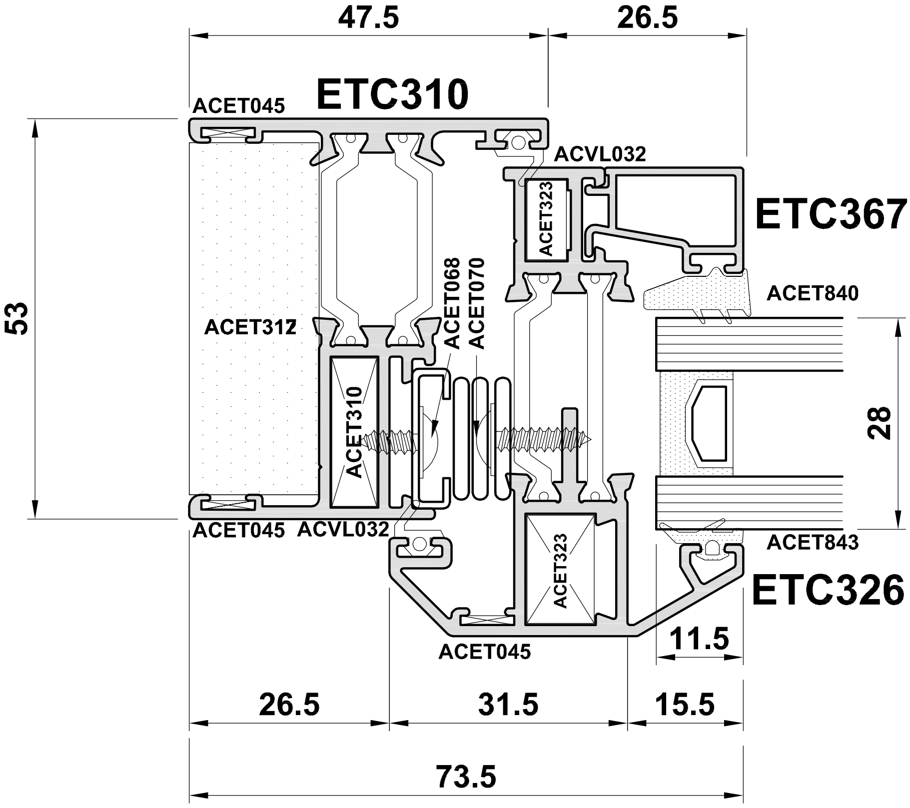
ISSUED : MAY 2016

Detail 2B





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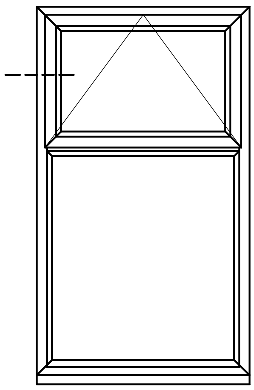
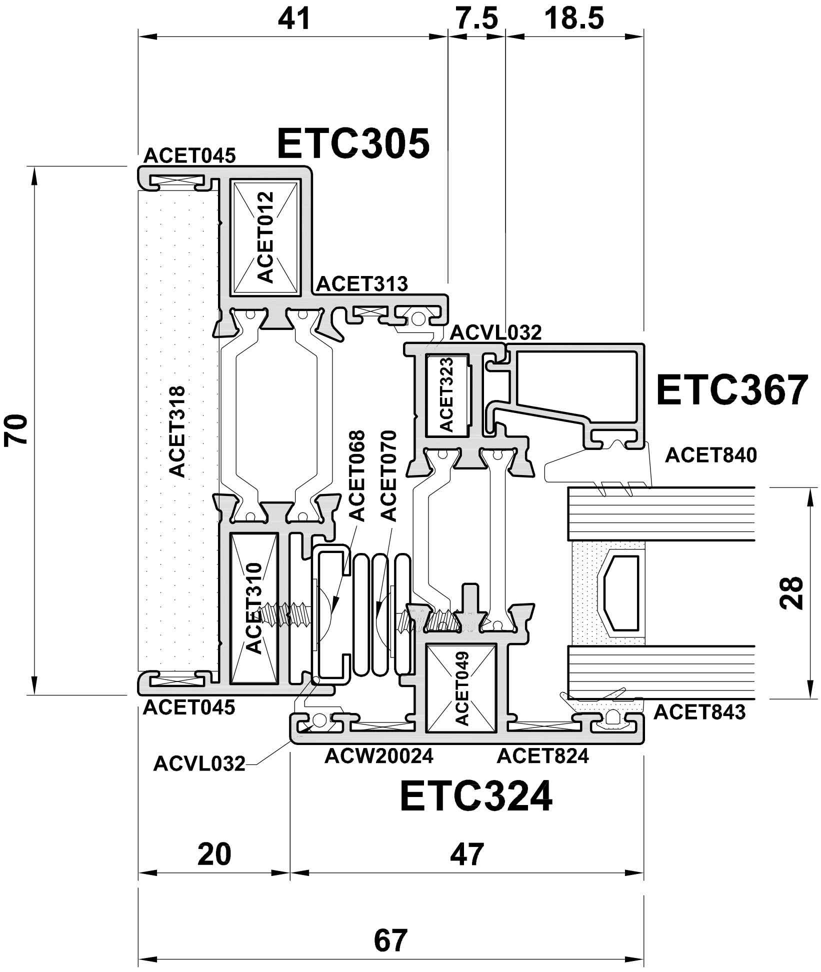
Detail 2C





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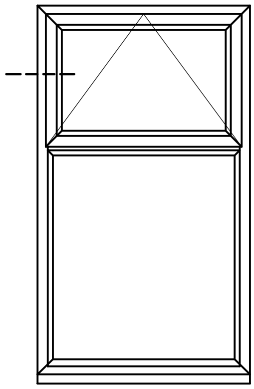
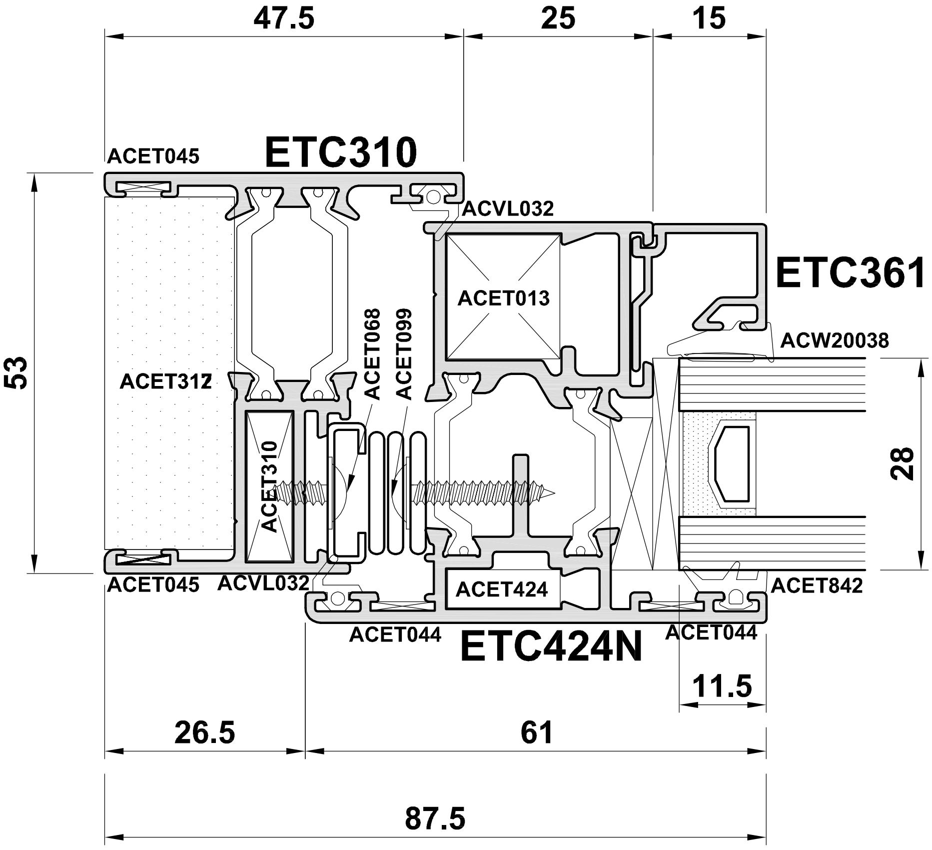
Detail 2D





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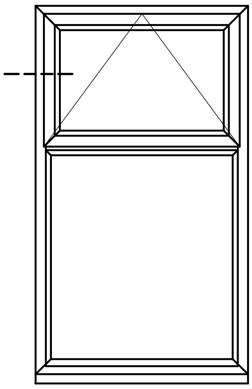
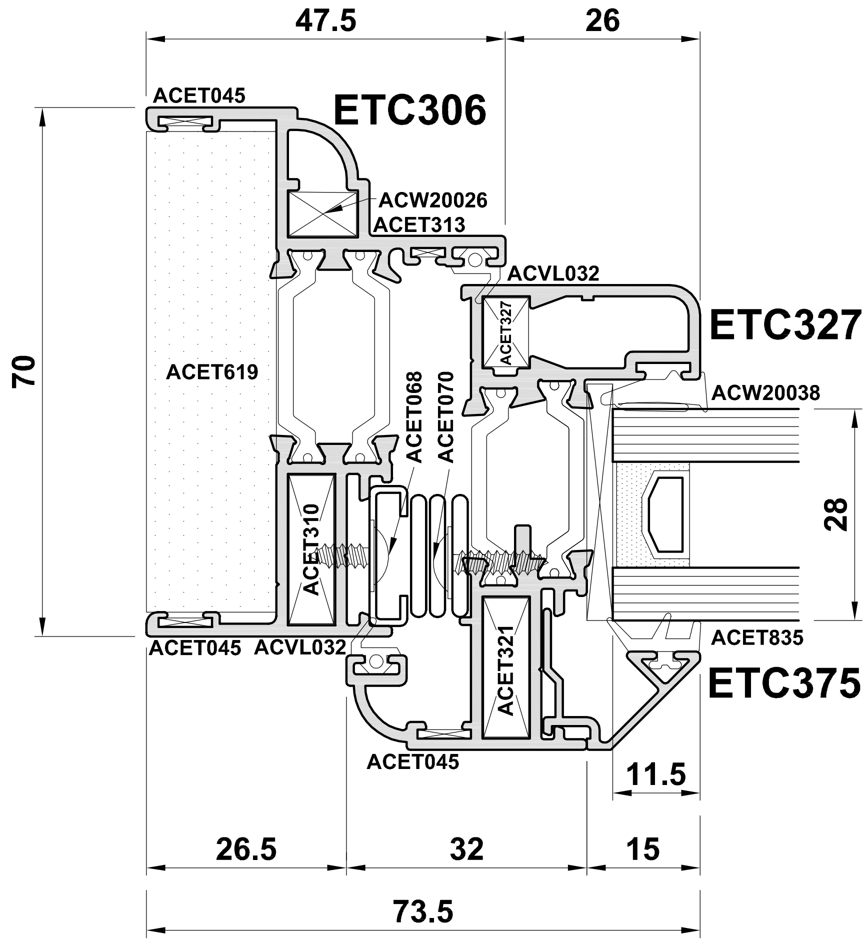
Detail 2E





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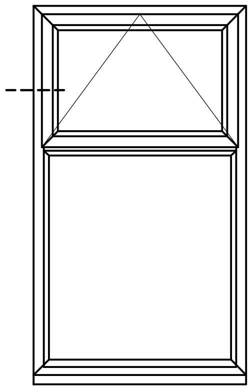
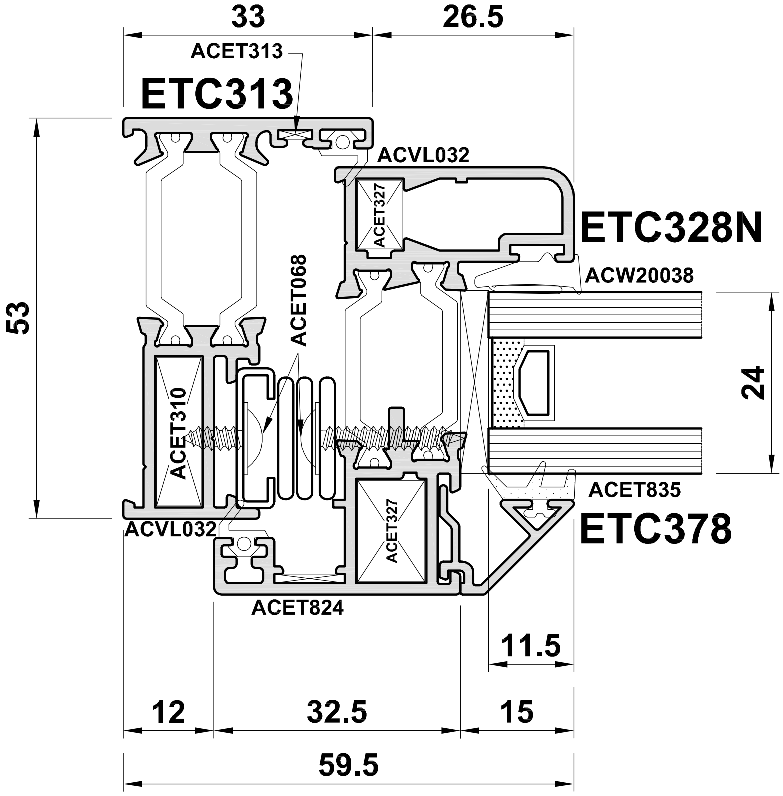
ISSUED : MAY 2016

Detail 2F





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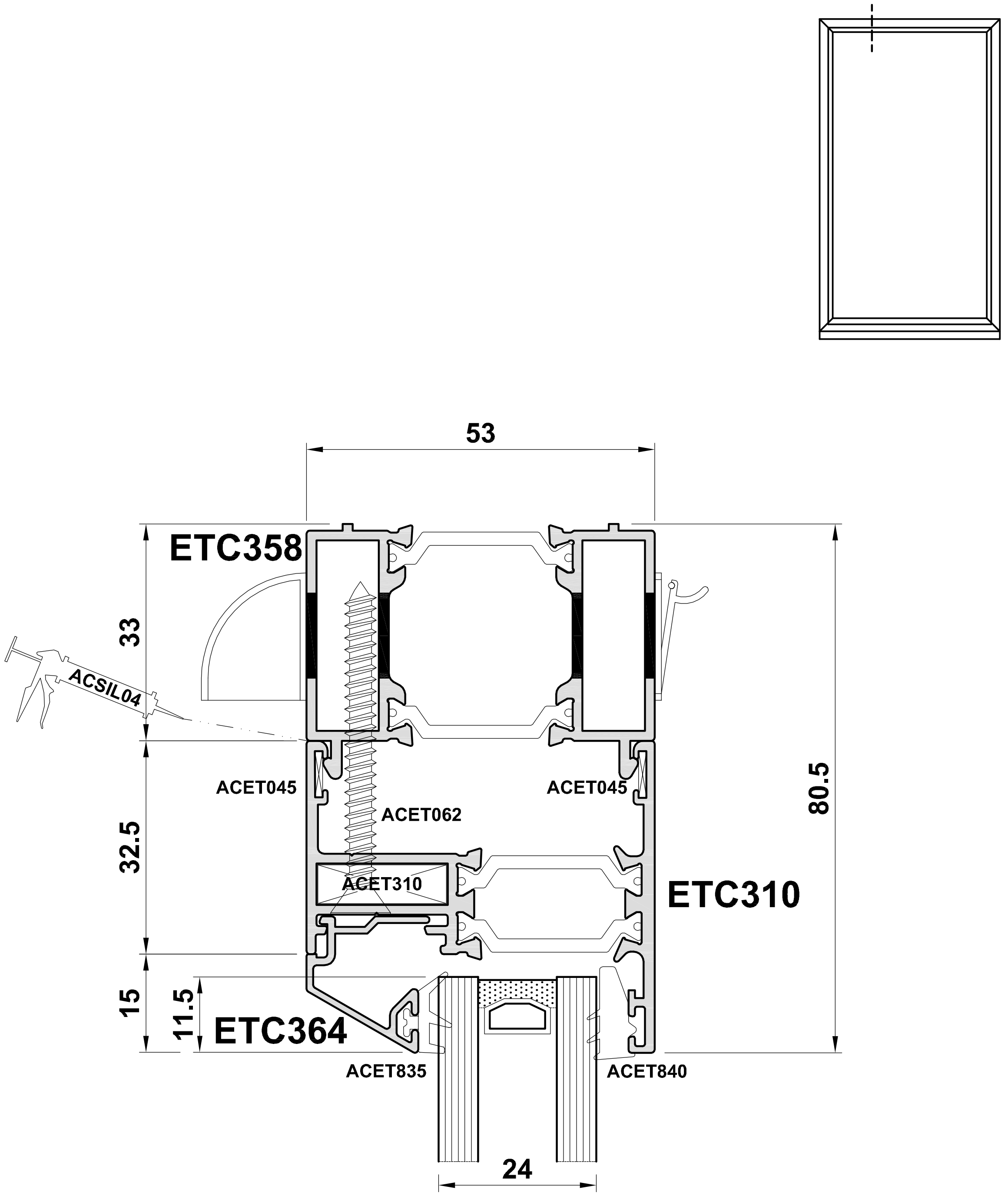
Detail 3A



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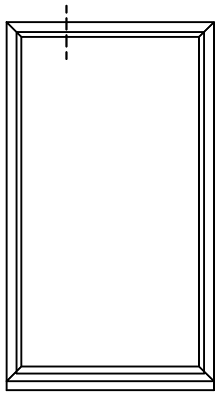
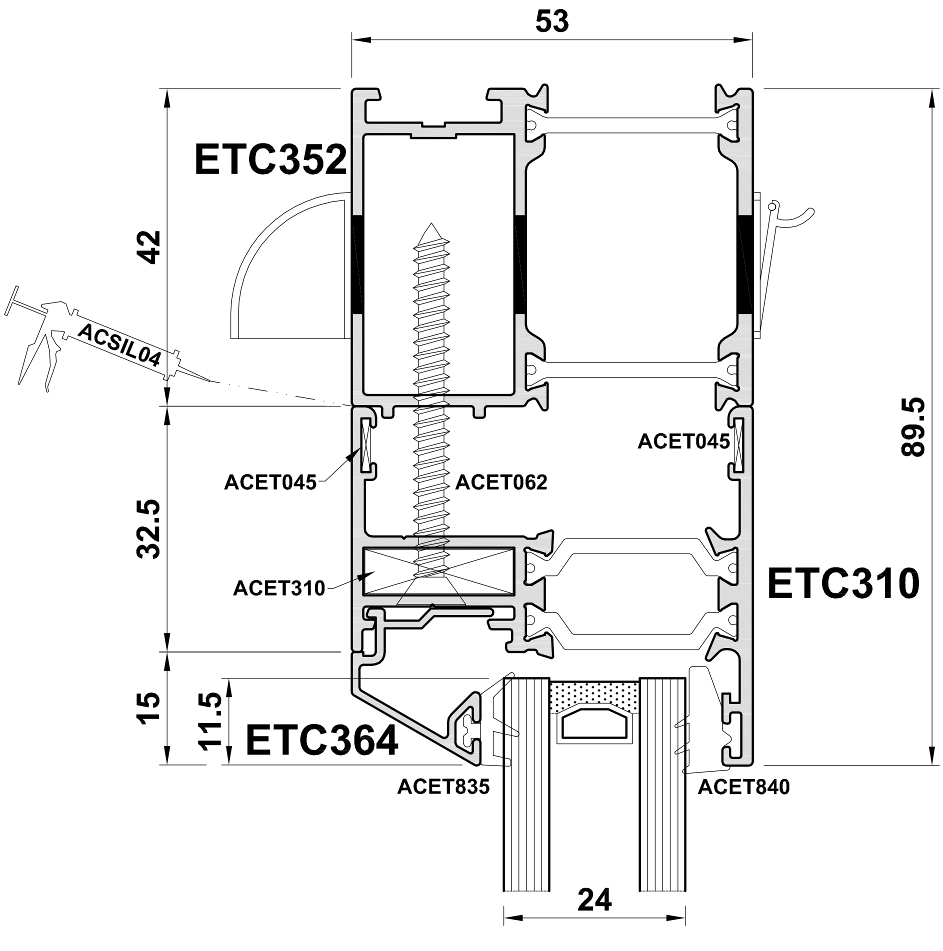
Detail 3B





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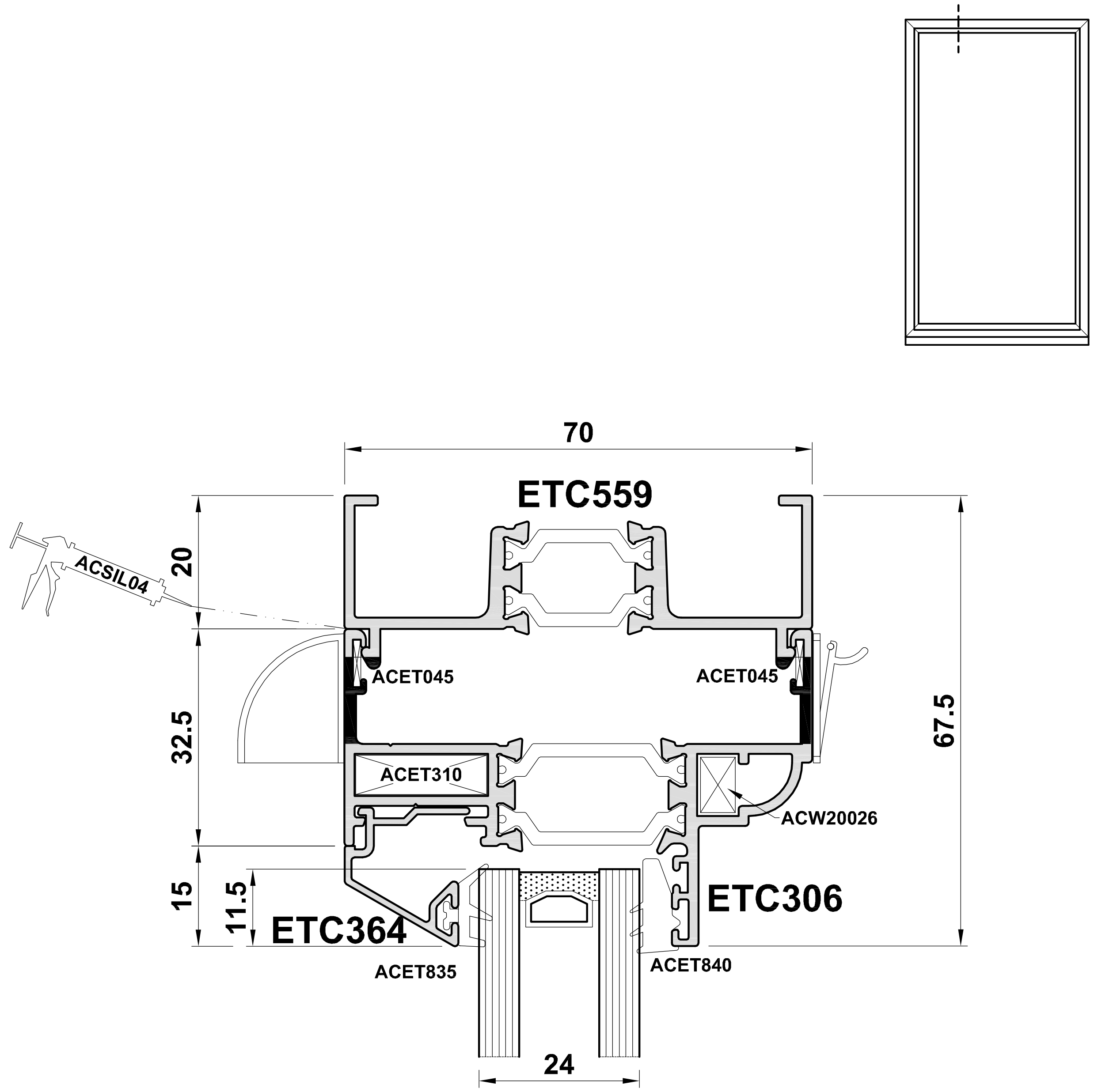
Detail 3C



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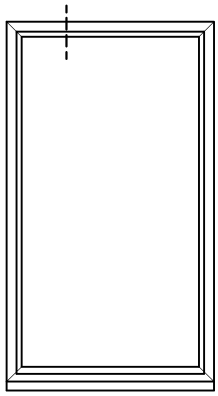
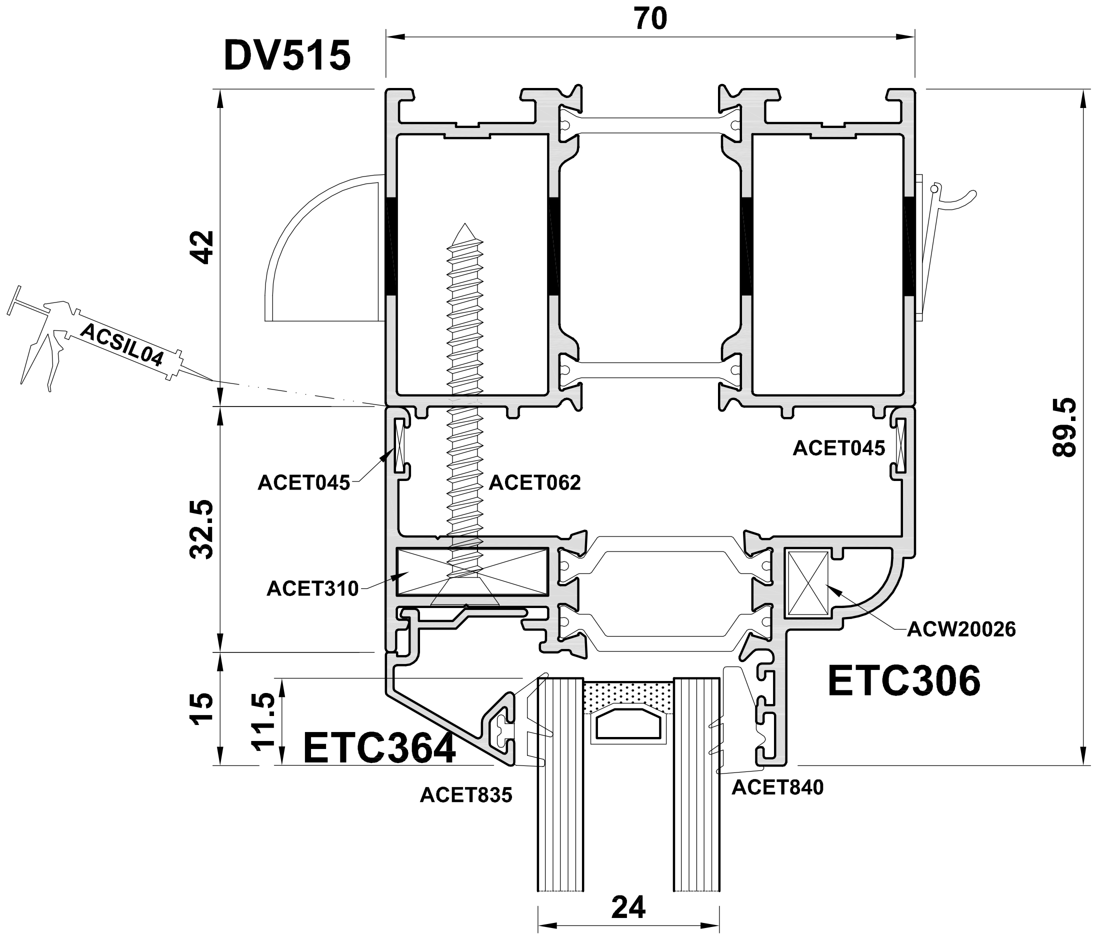
Detail 3D





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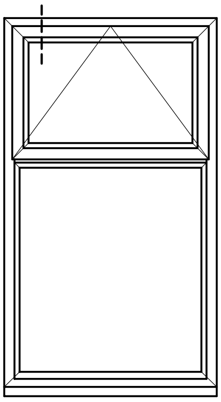
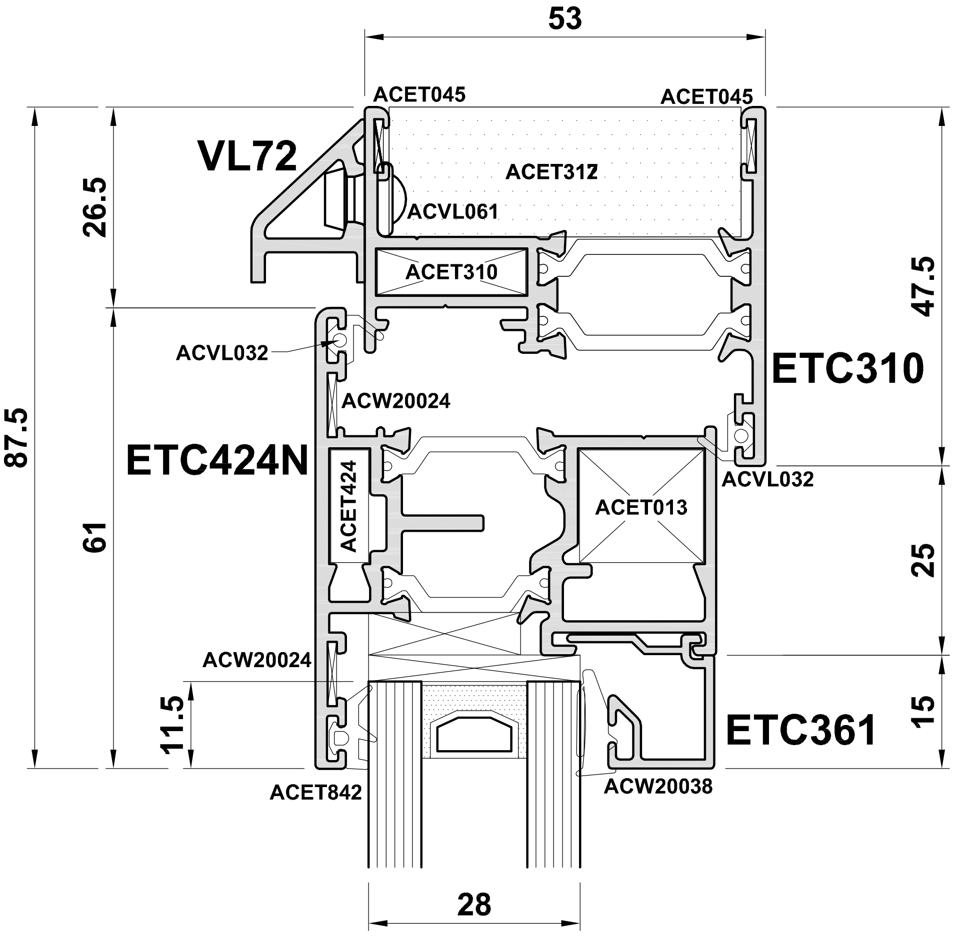
Detail 4A

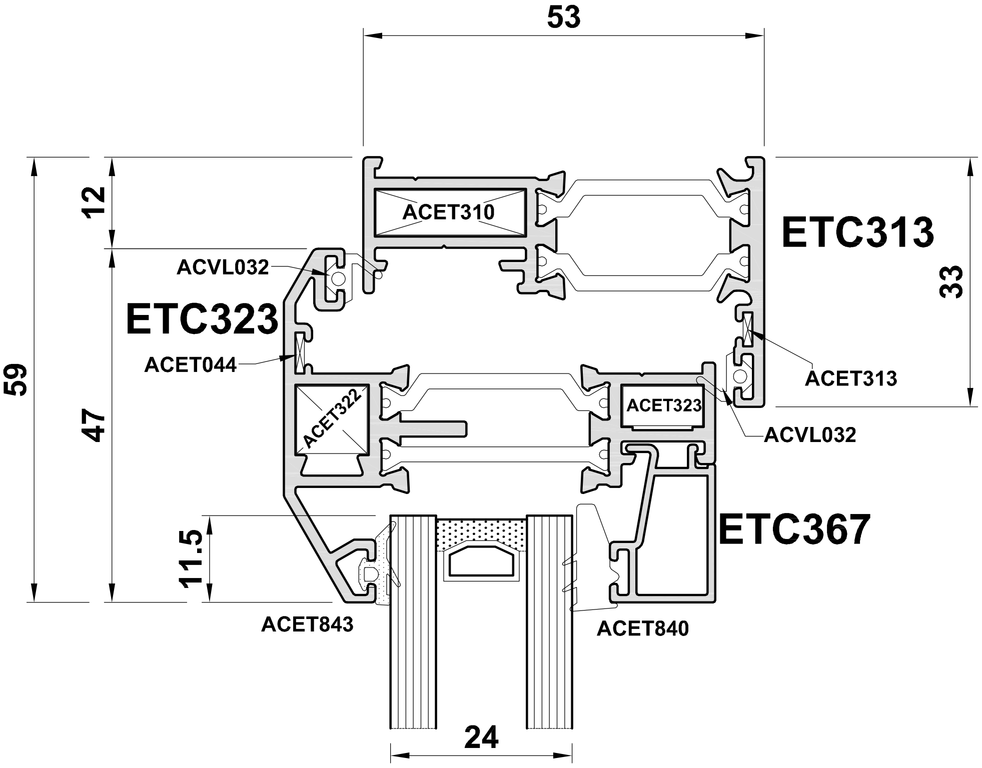


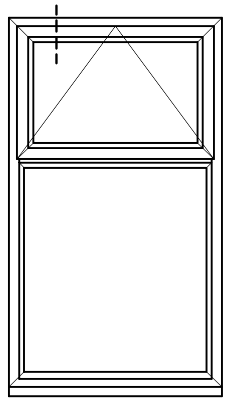


Do Not Scale From This Drawing

ISSUED : MAY 2016

Detail 4B





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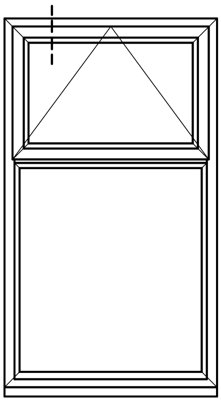
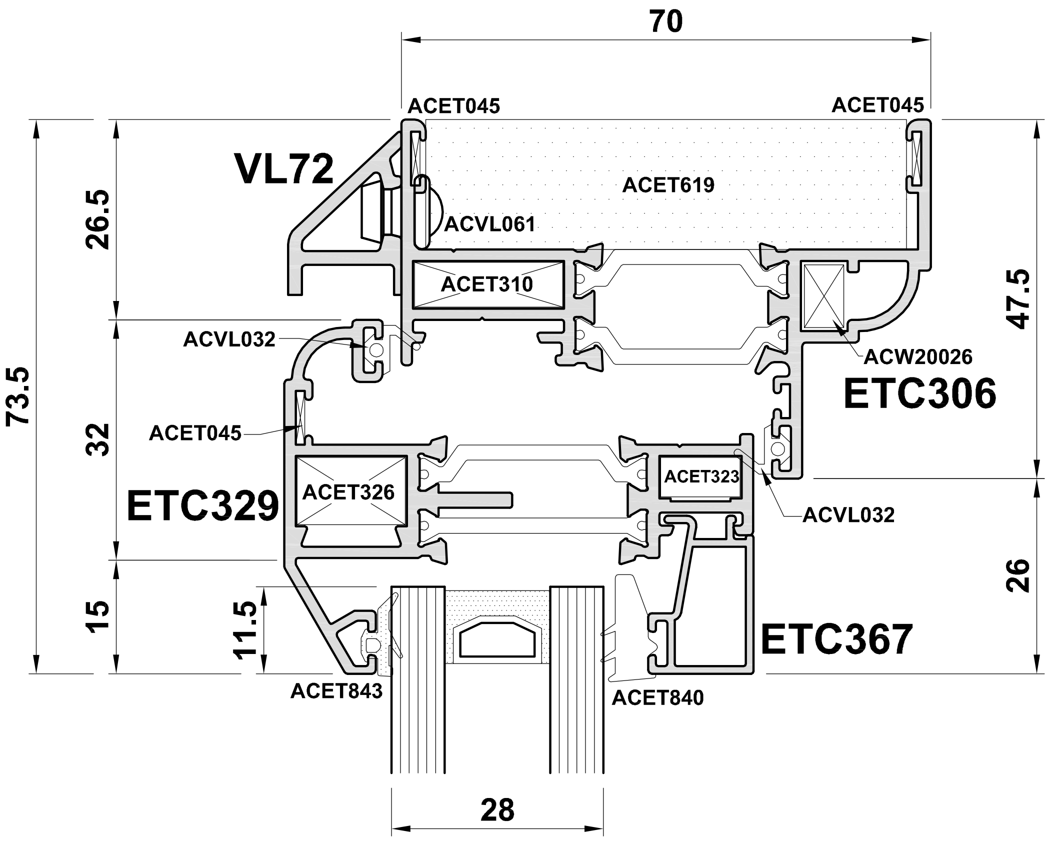
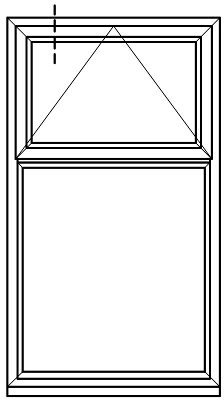
Detail 4C

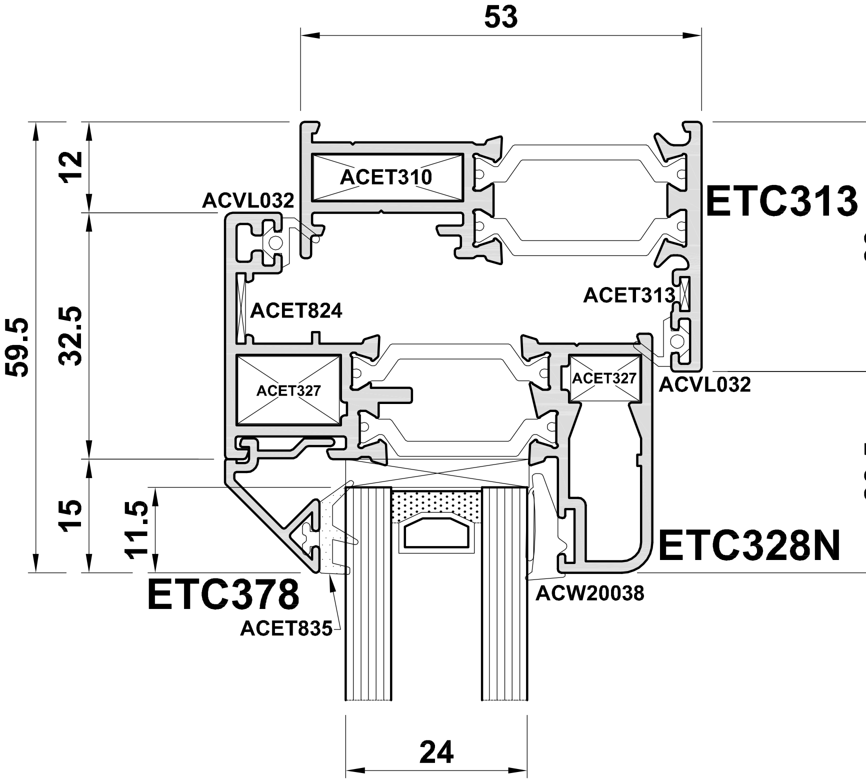




Do Not Scale From This Drawing

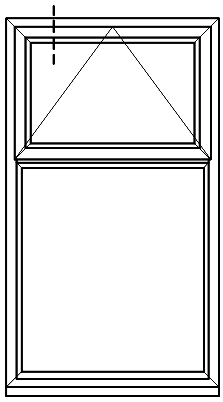
Detail 4D

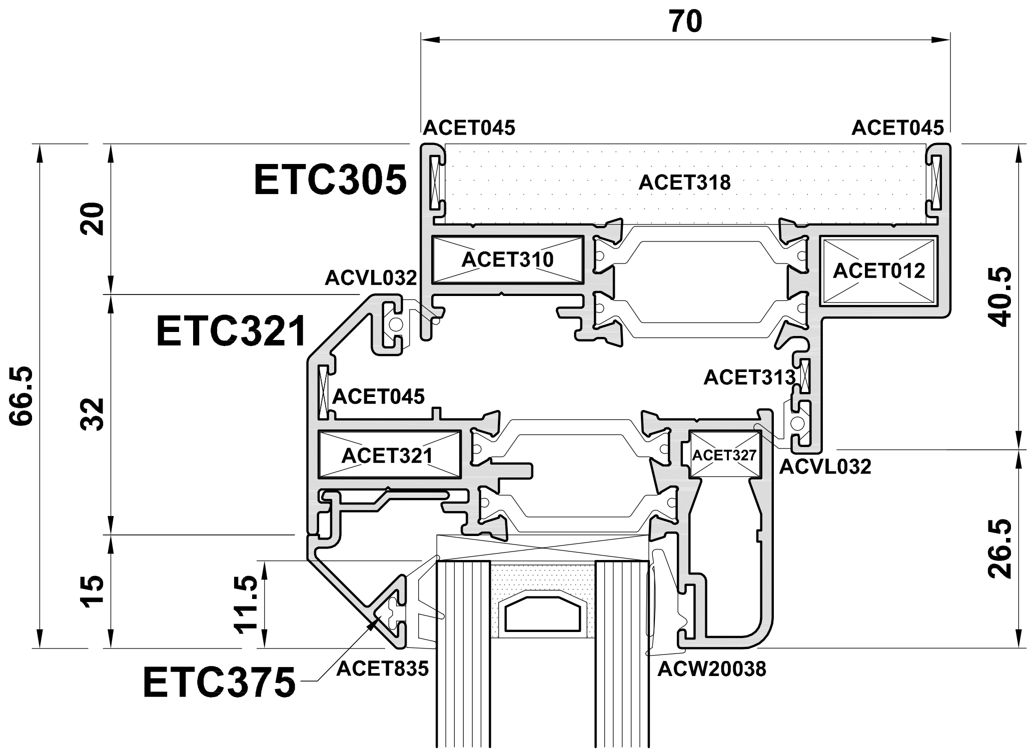




Do Not Scale From This Drawing

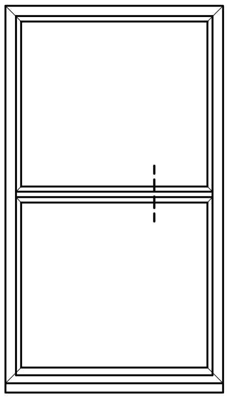
Detail 4E

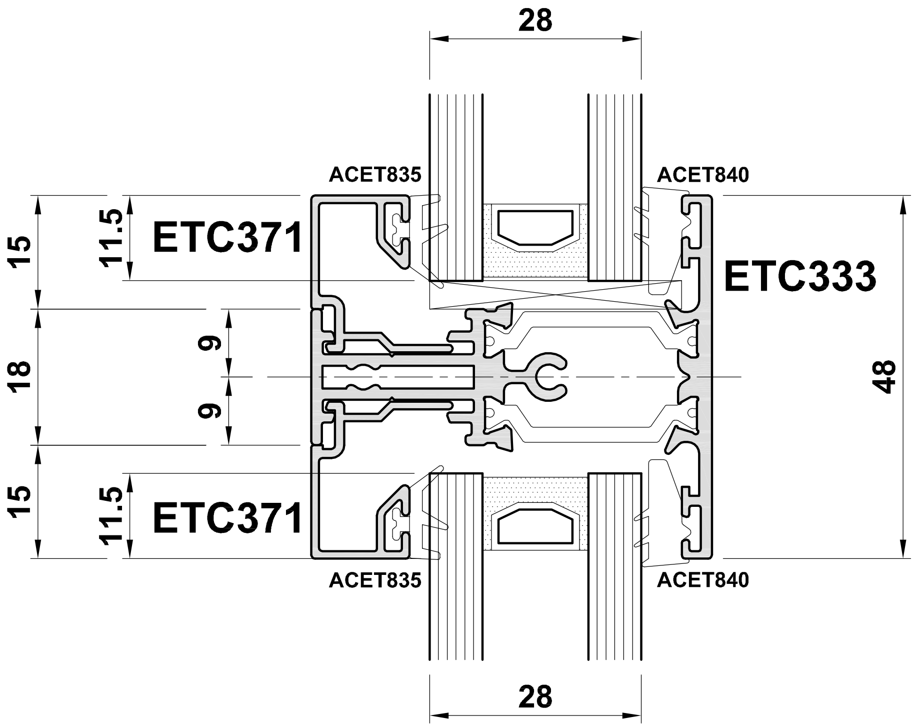




Do Not Scale From This Drawing

Detail 5A

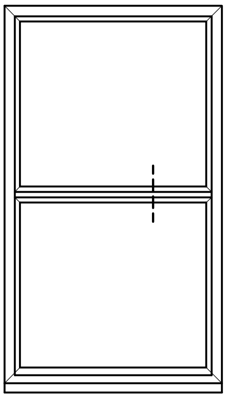


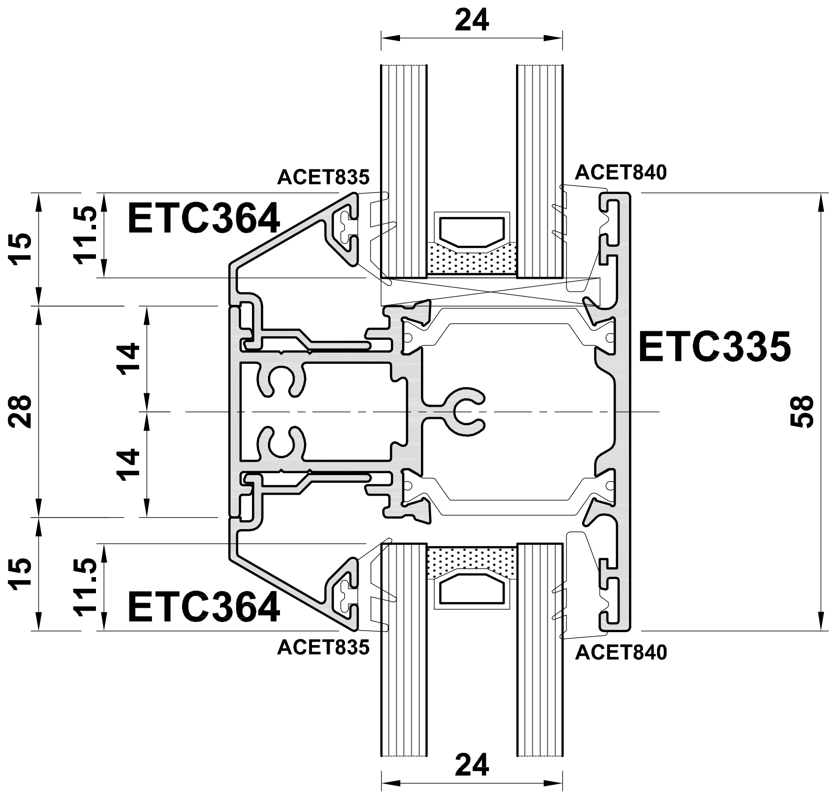


Note: Transoms will drain through the join to the outerframe.

Do Not Scale From This Drawing

Detail 5B

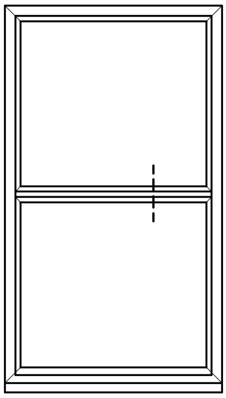


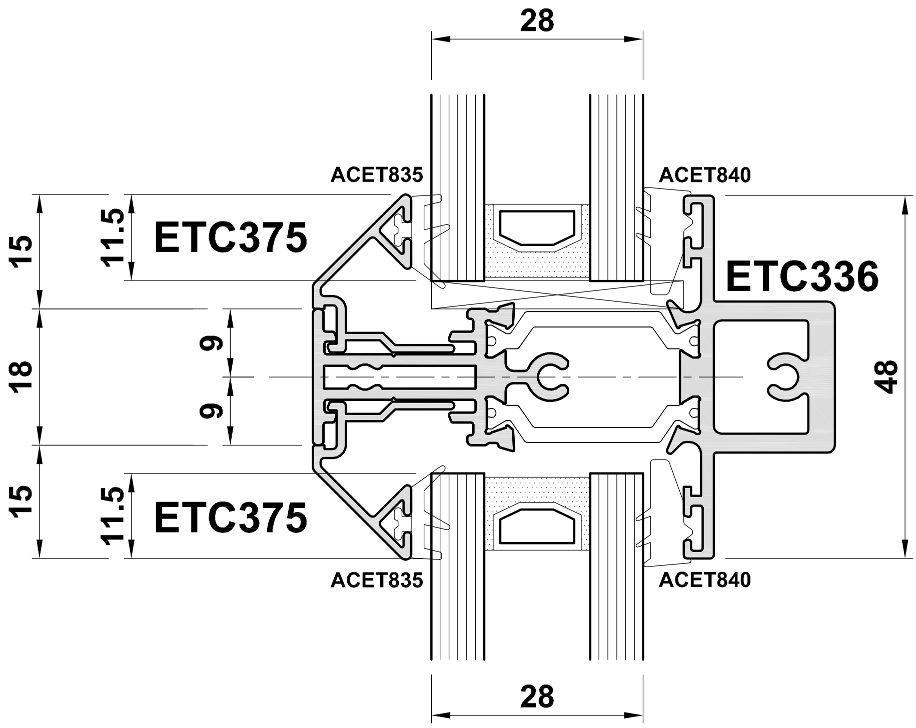


Note: Transoms will drain through the join to the outerframe.

Do Not Scale From This Drawing

Detail 5C

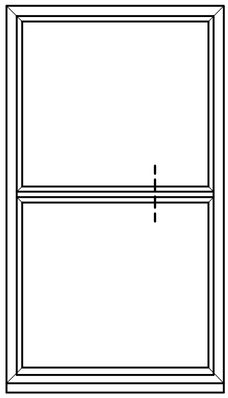


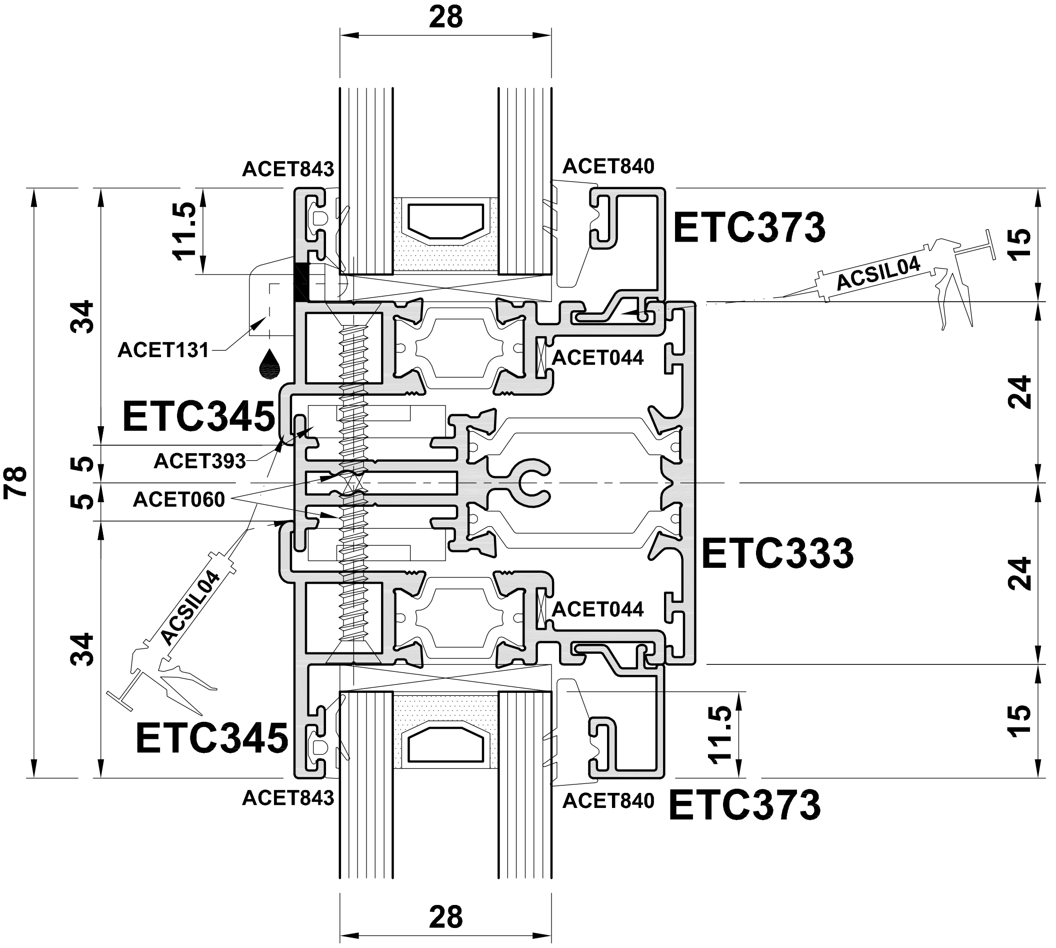


Note: Transoms will drain through the join to the outerframe.

Do Not Scale From This Drawing

Detail 5D

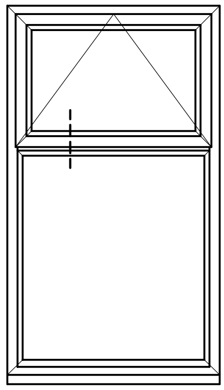


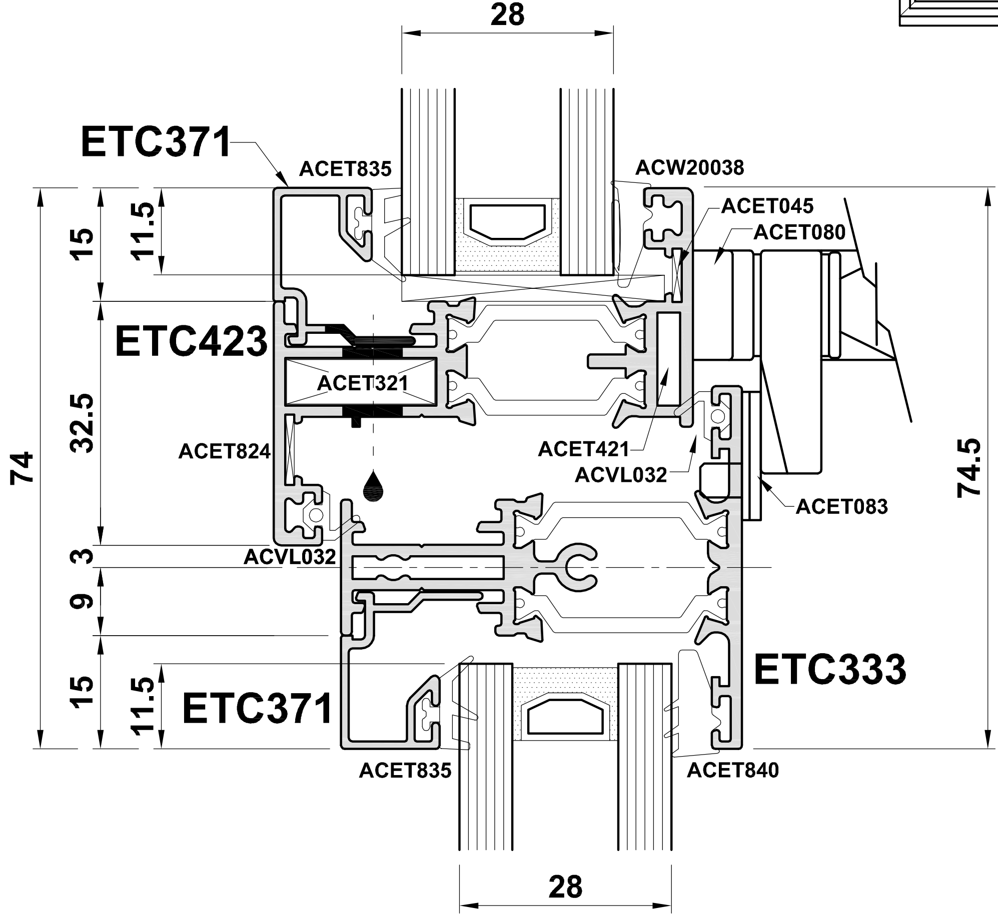


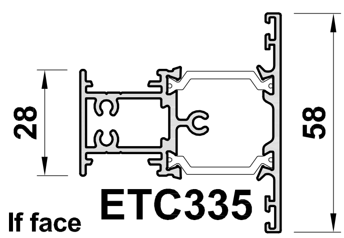
Note: Transoms will drain through the join to the outerframe.

Do Not Scale From This Drawing

Detail 6A



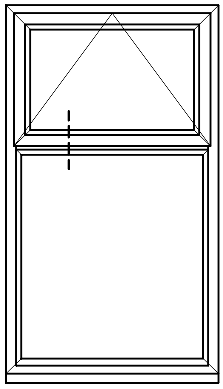


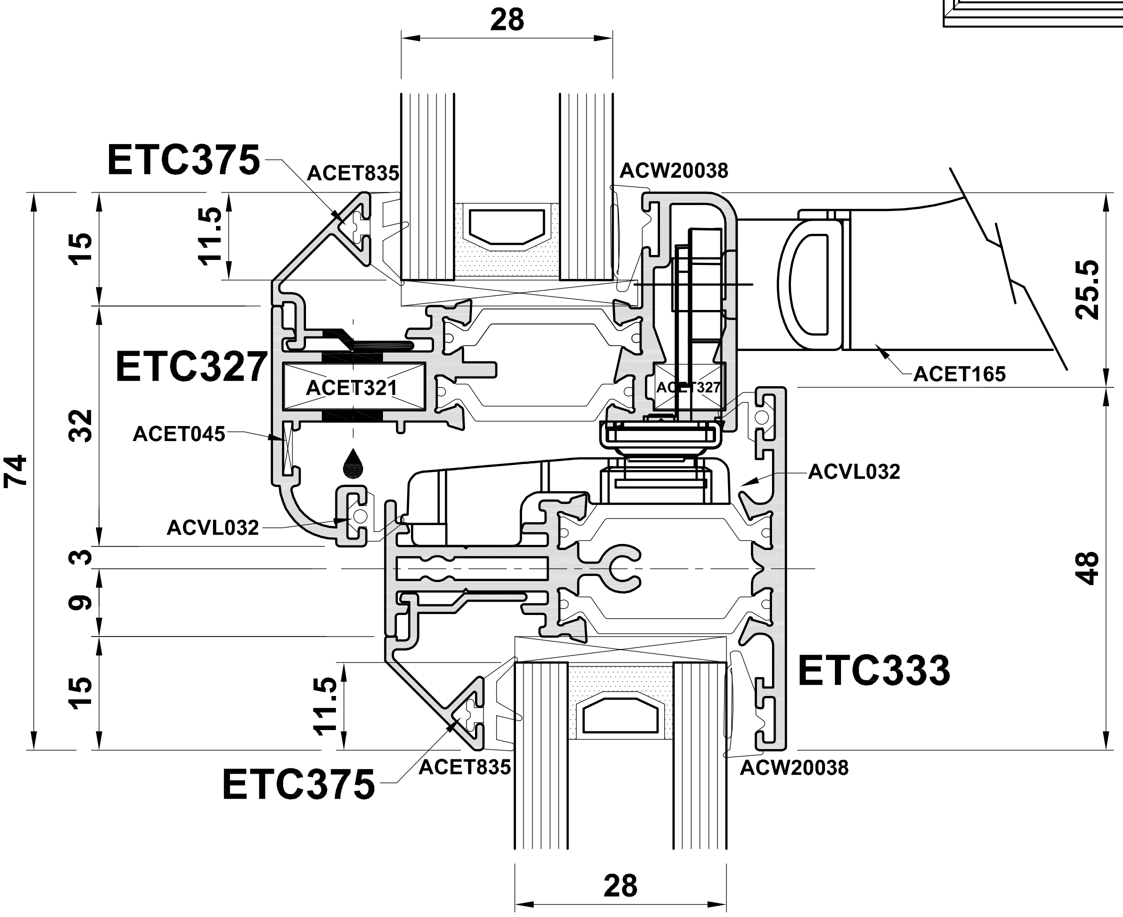


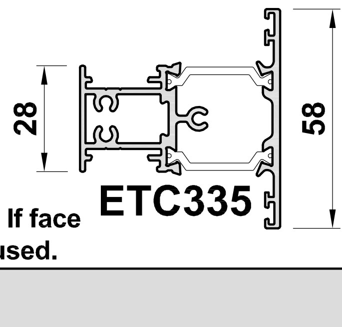
Note: Transoms will drain through the join to the outerframe. If face drainage is preferred, wider transom ETC335 must be used.

Do Not Scale From This Drawing

Detail 6B



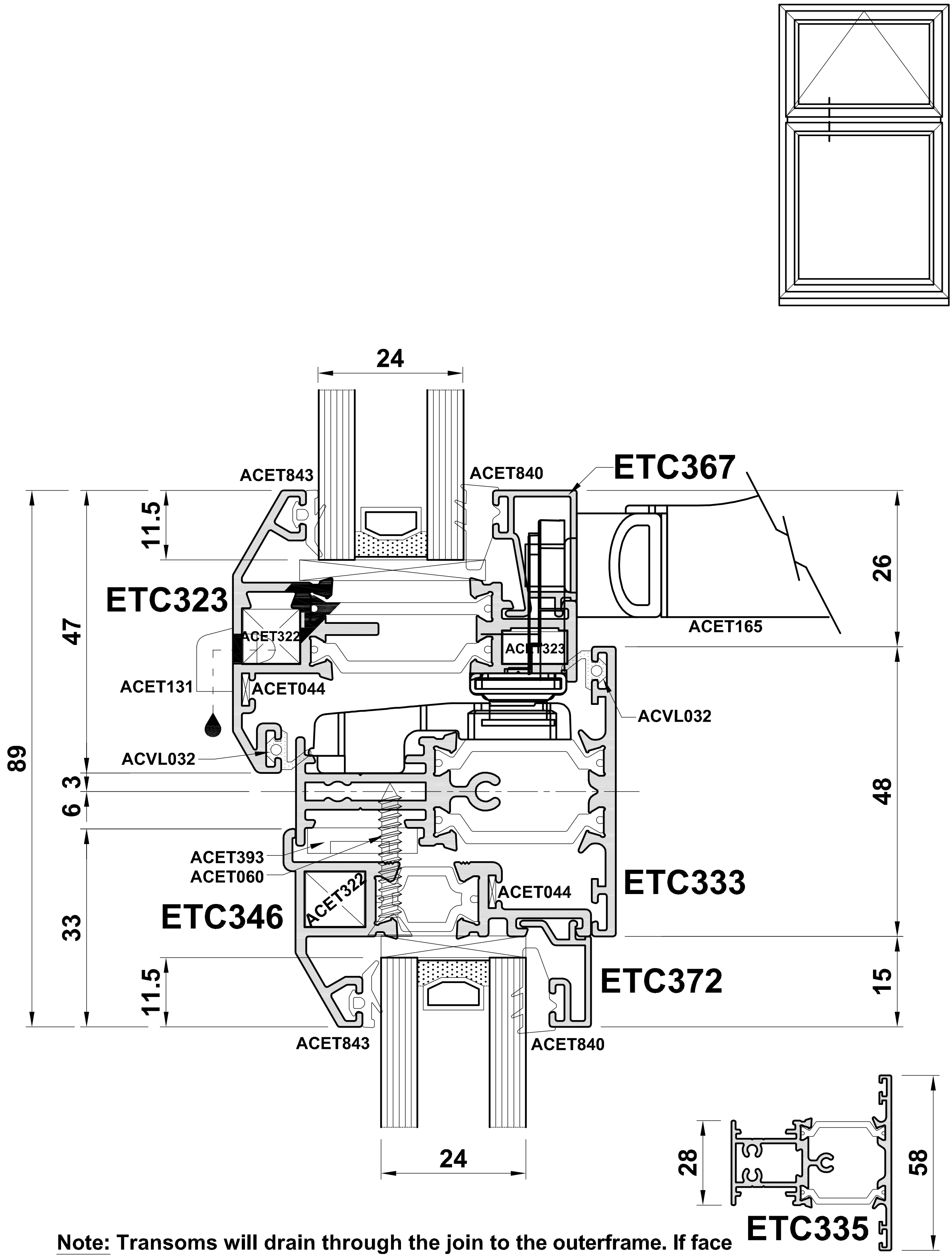




Note: Transoms will drain through the join to the outerframe. If face drainage is preferred, wider transom ETC335 must be used.

Do Not Scale From This Drawing

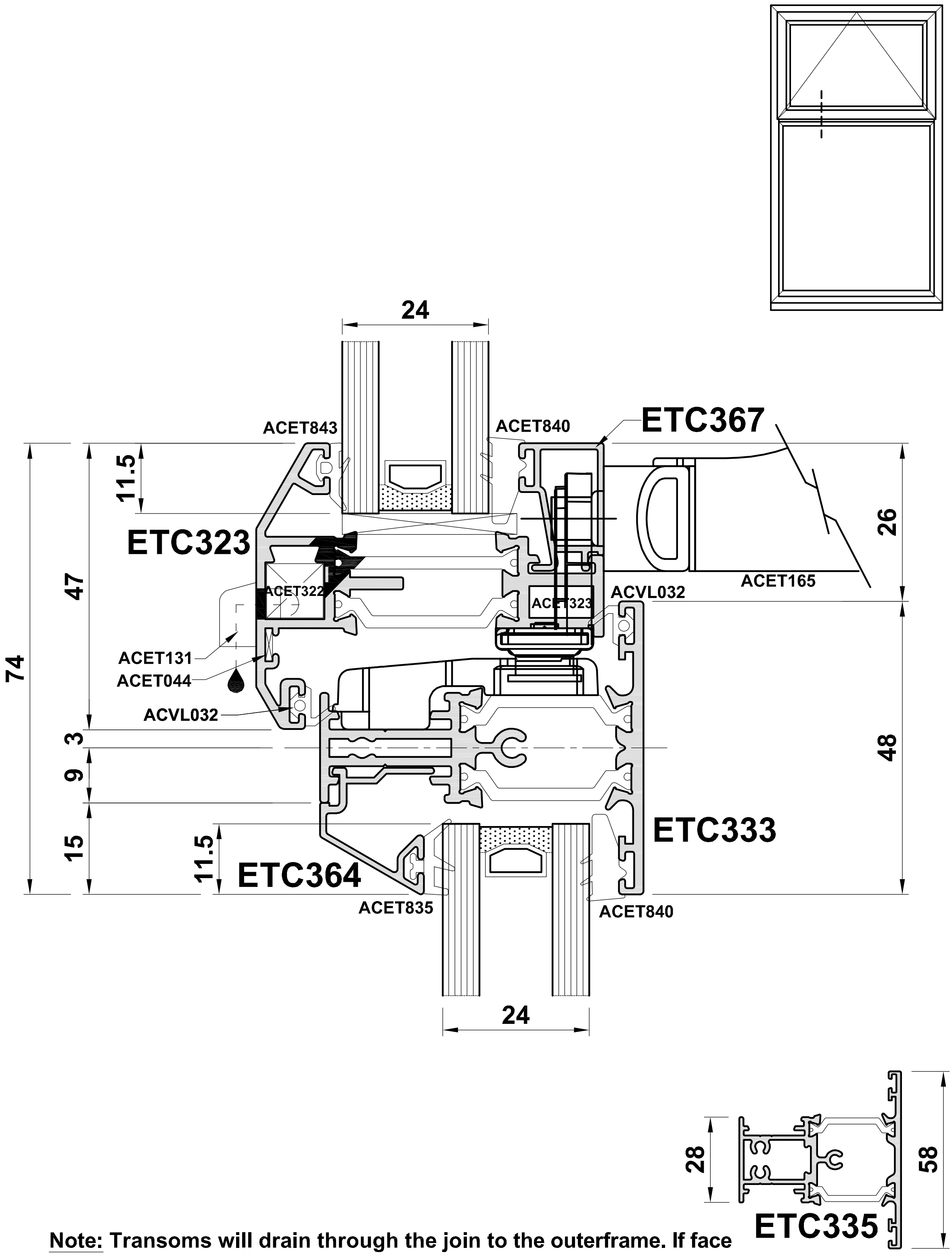
Detail 6C



Note: Transoms will drain through the join to the outerframe. If face drainage is preferred, wider transom ETC335 must be used.

Do Not Scale From This Drawing

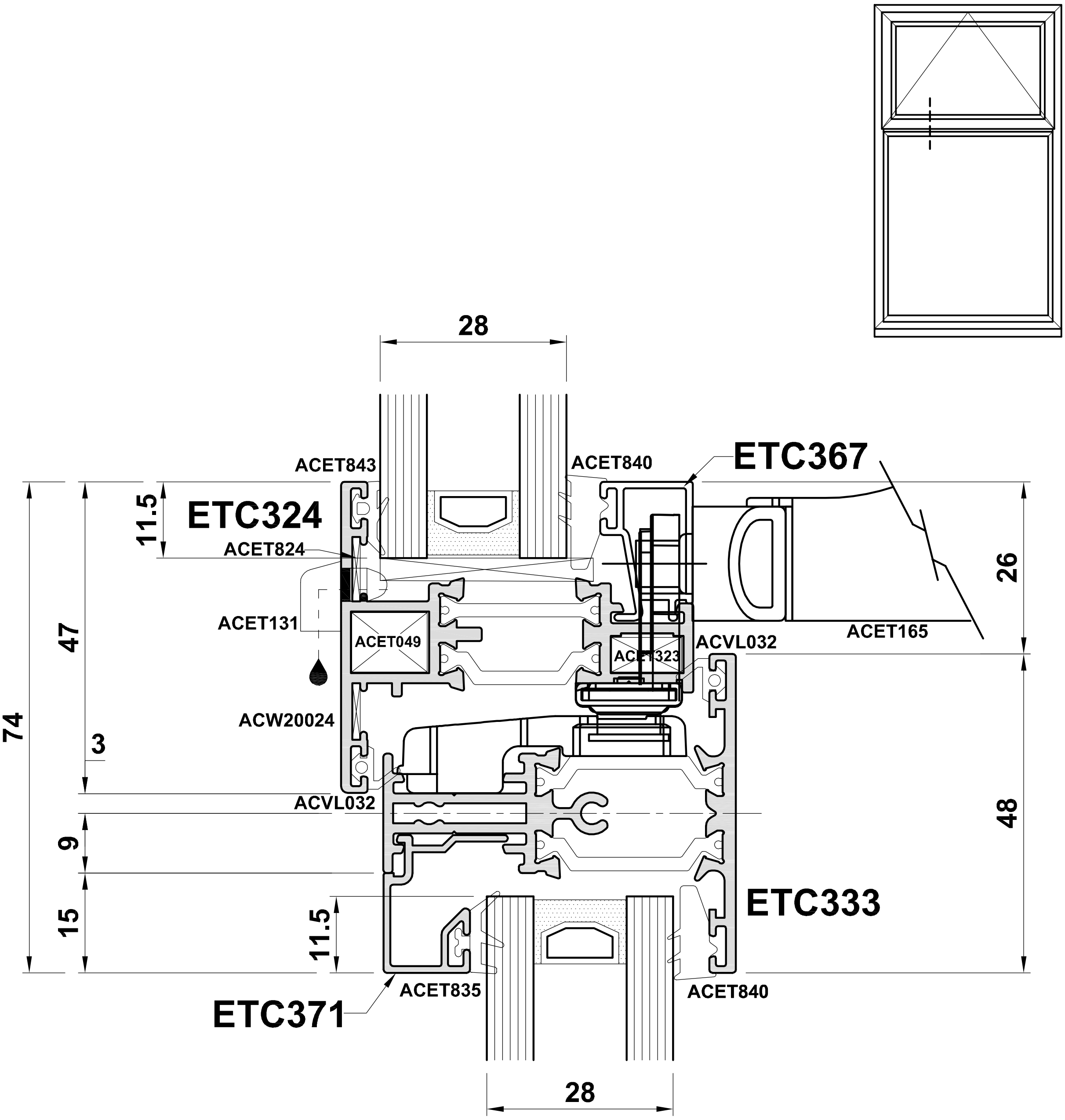
Detail 6D

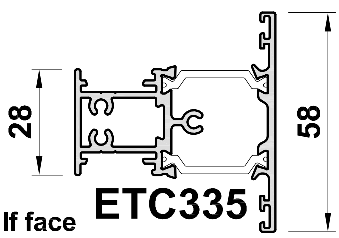


Note: Transoms will drain through the join to the outerframe. If face drainage is preferred, wider transom ETC335 must be used.

Do Not Scale From This Drawing

Detail 6E

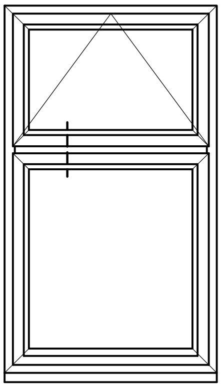


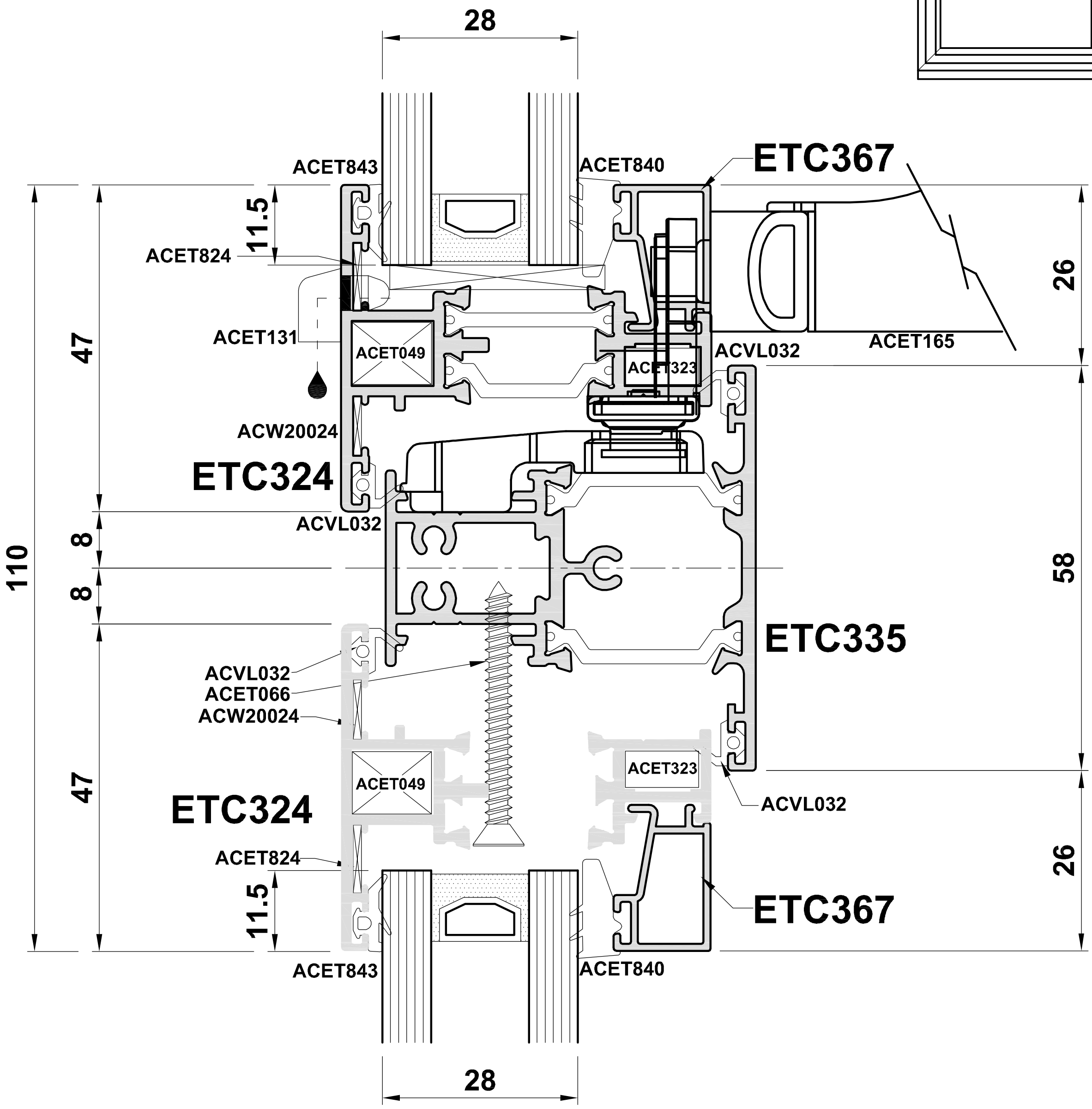


Note: Transoms will drain through the join to the outerframe. If face drainage is preferred, wider transom ETC335 must be used.

Do Not Scale From This Drawing

Detail 7A

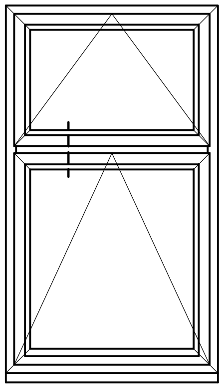


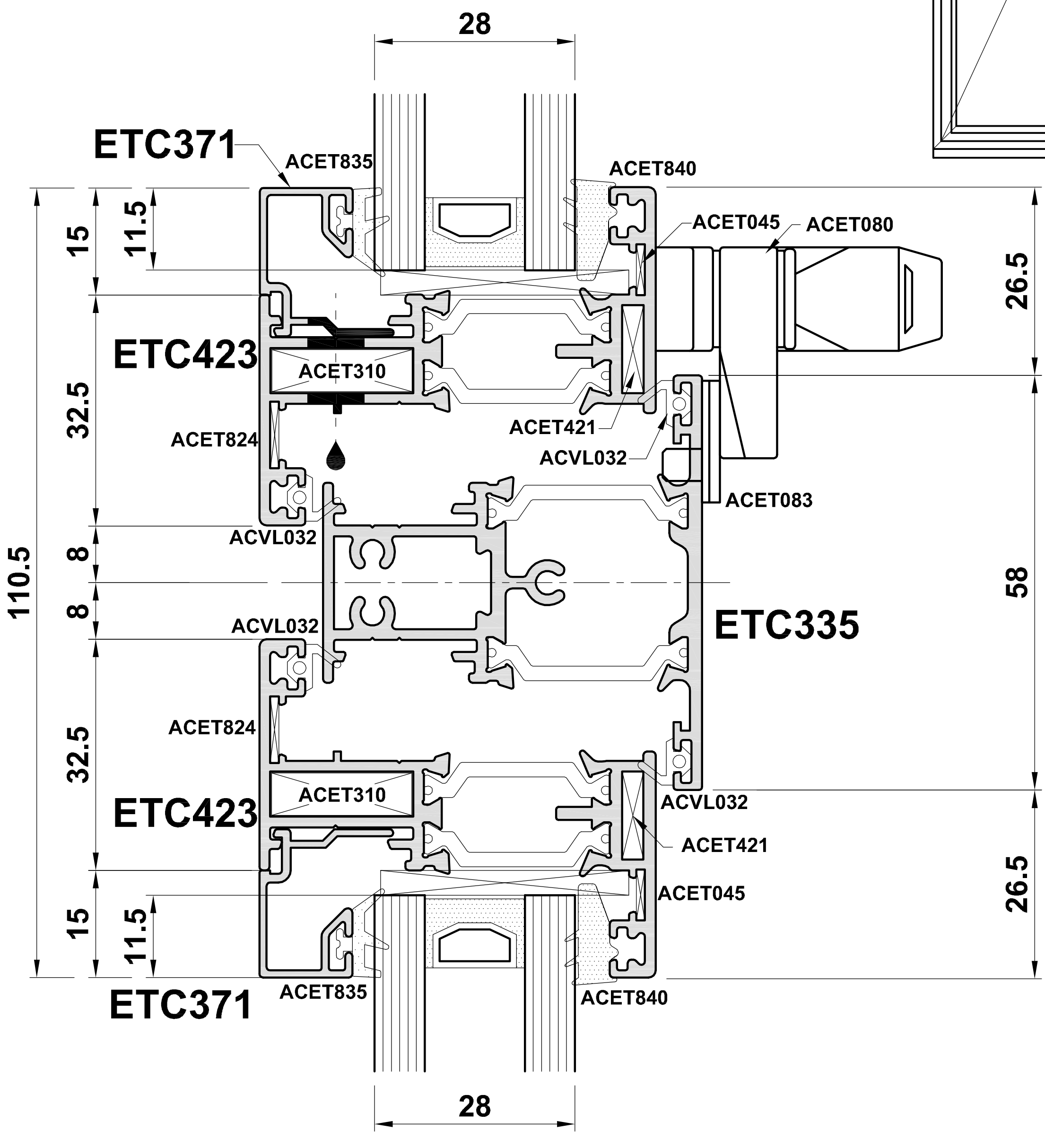


Note: Transoms will drain through the join to the outerframe.

Do Not Scale From This Drawing

Detail 7B

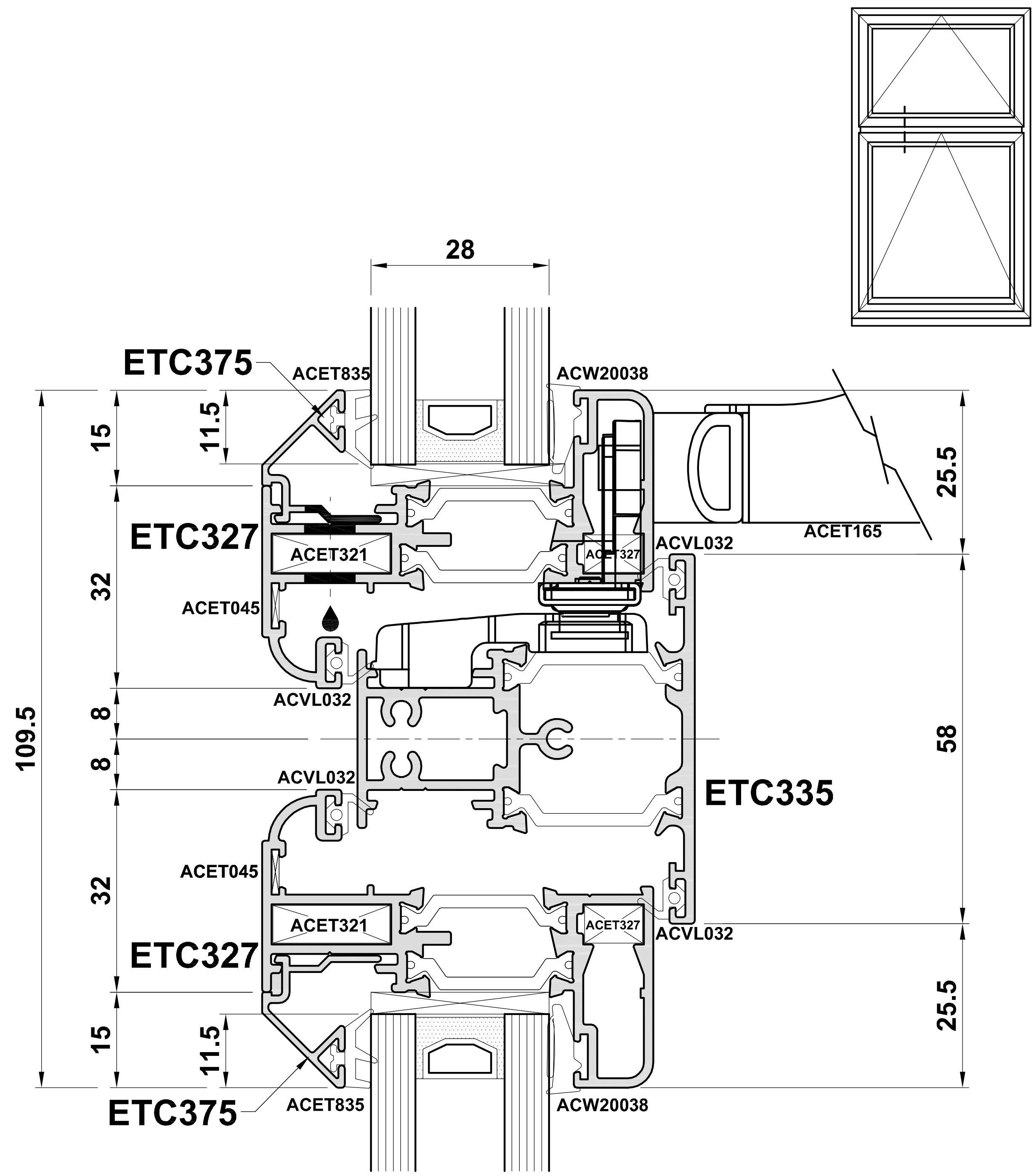




<u>Note:</u> Transoms will drain through the join to the outerframe.

Do Not Scale From This Drawing

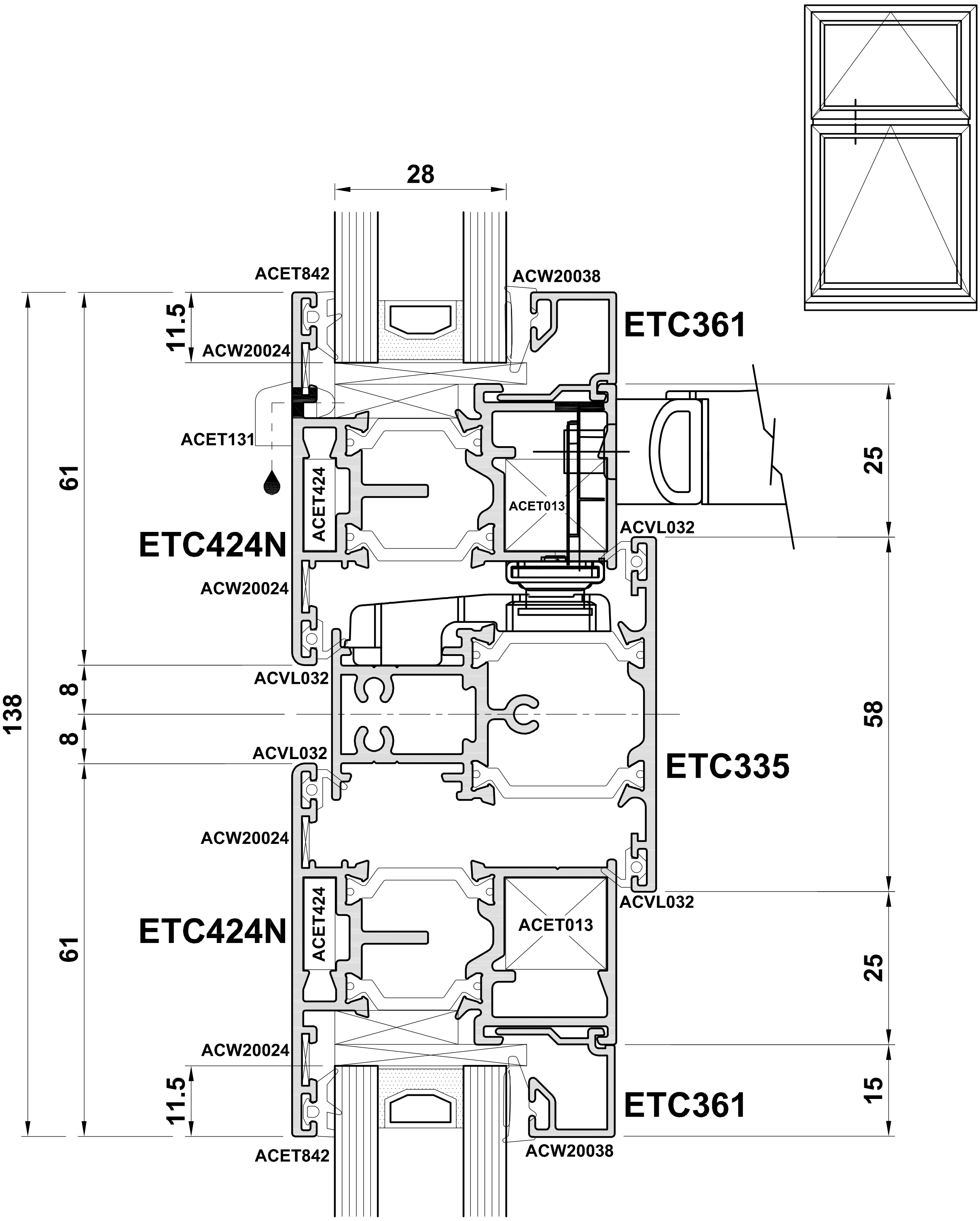
Detail 7C



Note: Transoms will drain through the join to the outerframe.

Do Not Scale From This Drawing

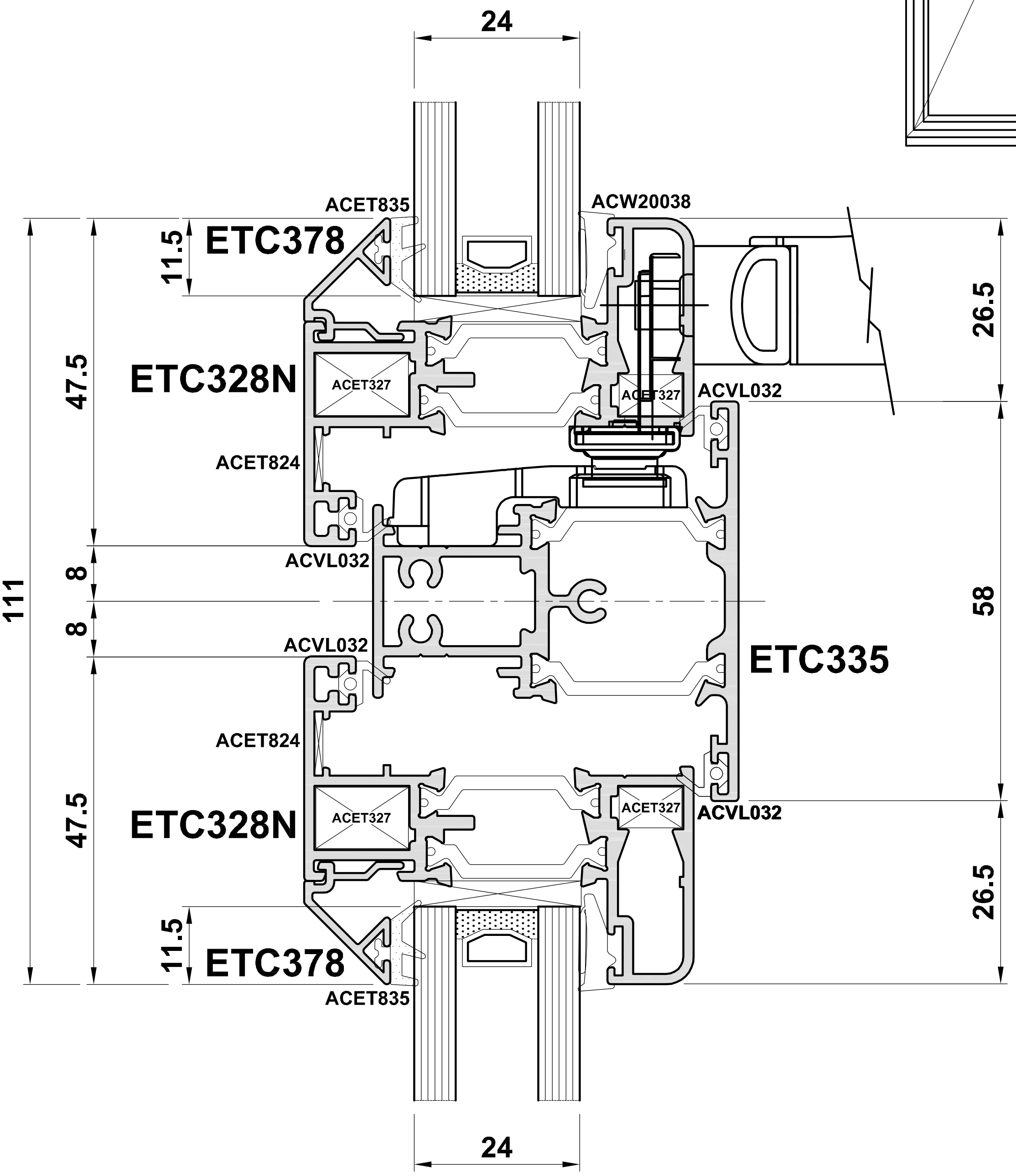
Detail 7D

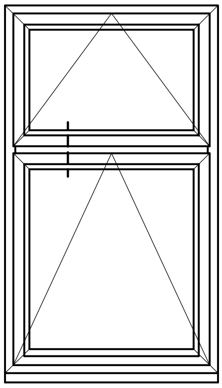


Note: Transoms will drain through the join to the outerframe.

Do Not Scale From This Drawing

Detail 7E

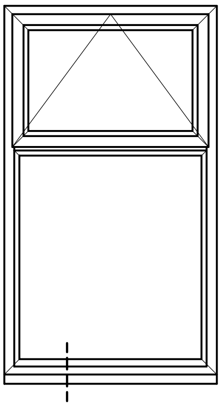


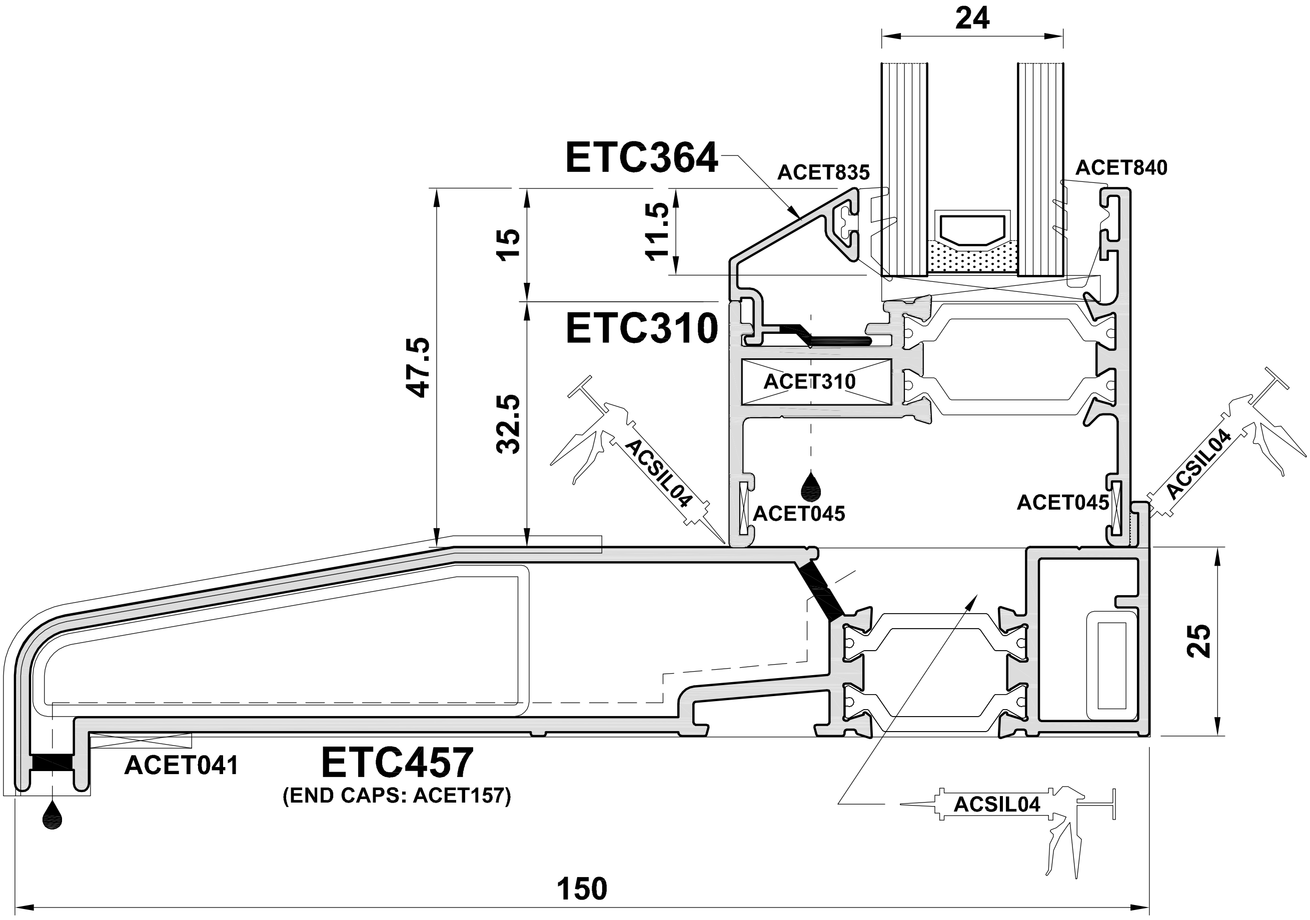


Note: Transoms will drain through the join to the outerframe.

Do Not Scale From This Drawing

Detail 8A

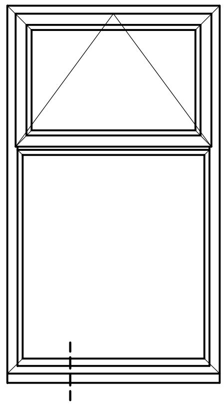


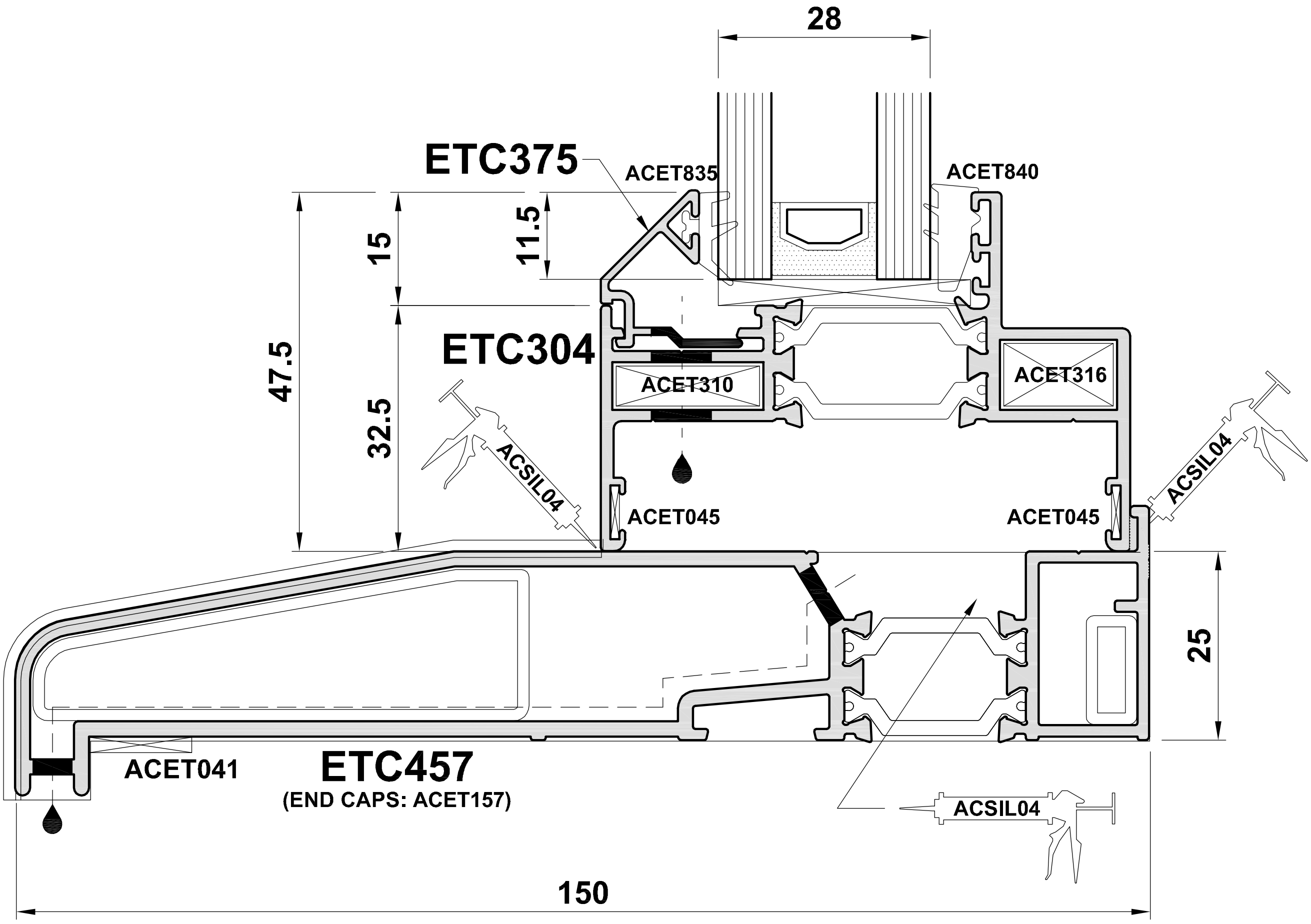


Cill end caps should be sealed to cill to prevent water egress over edge

Do Not Scale From This Drawing

Detail 8B

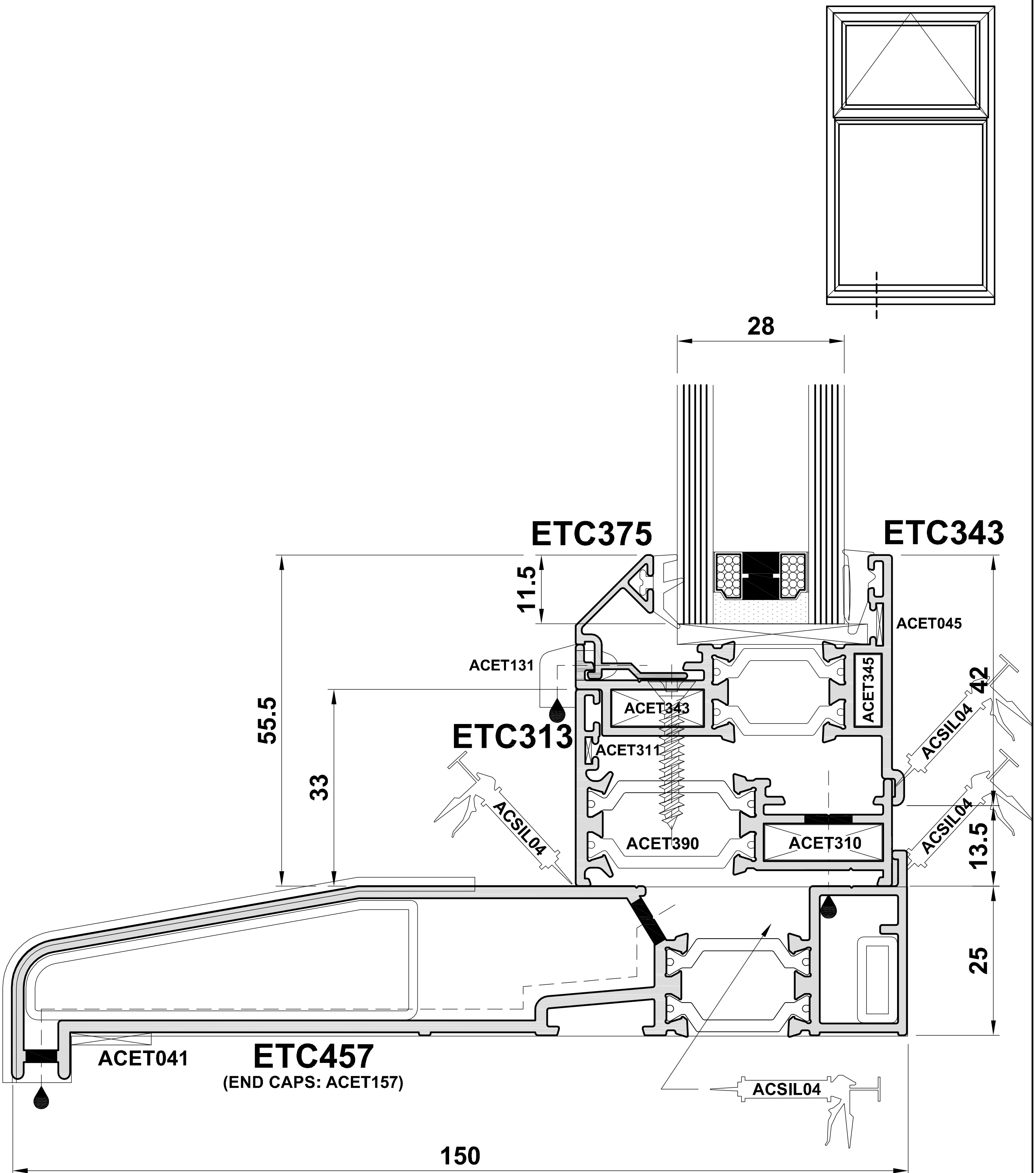




Cill end caps should be sealed to cill to prevent water egress over edge

Do Not Scale From This Drawing

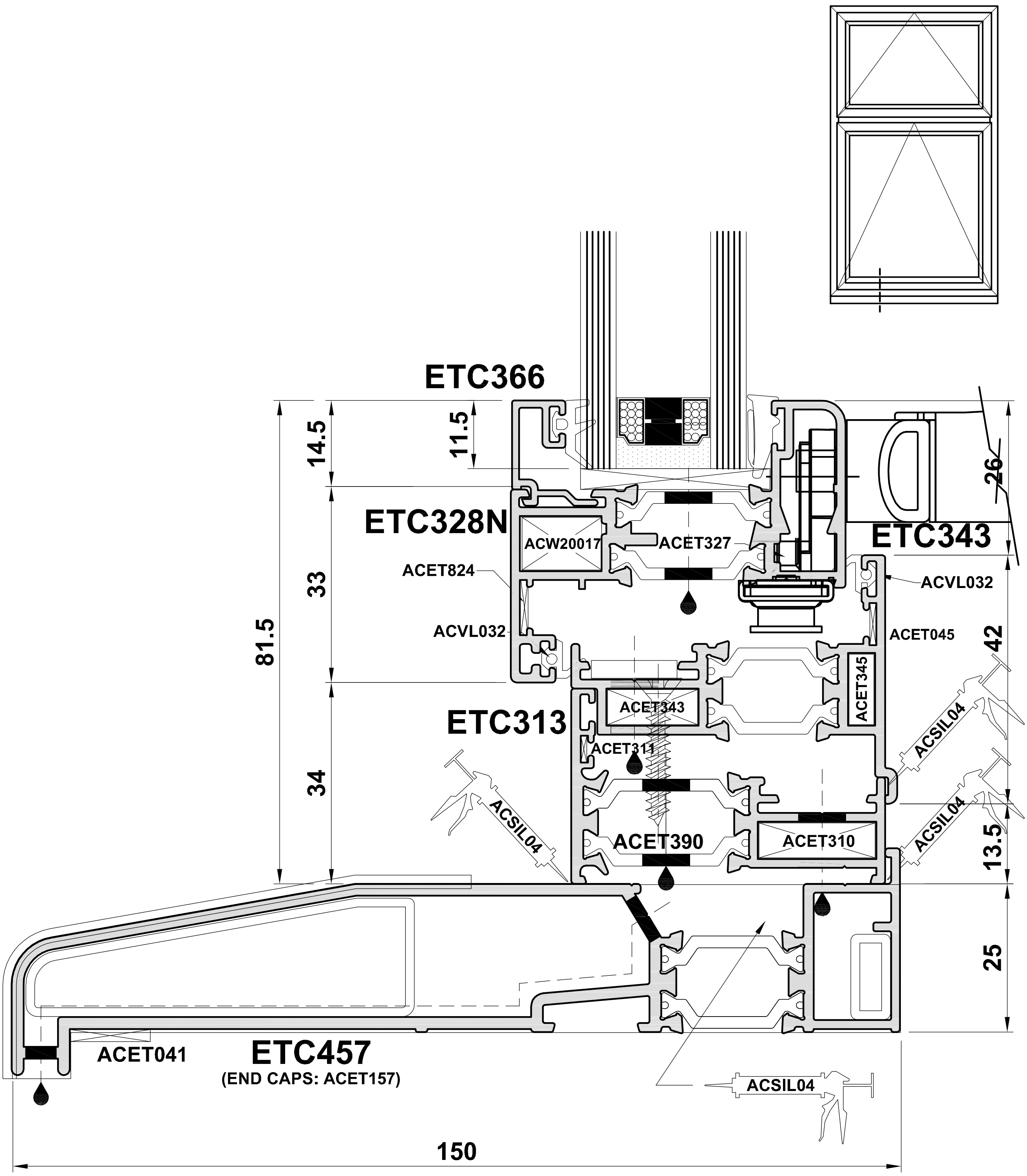
Detail 8C



Note: Where ETC343 is used, concealed drainage through a cill is recommended.

Do Not Scale From This Drawing

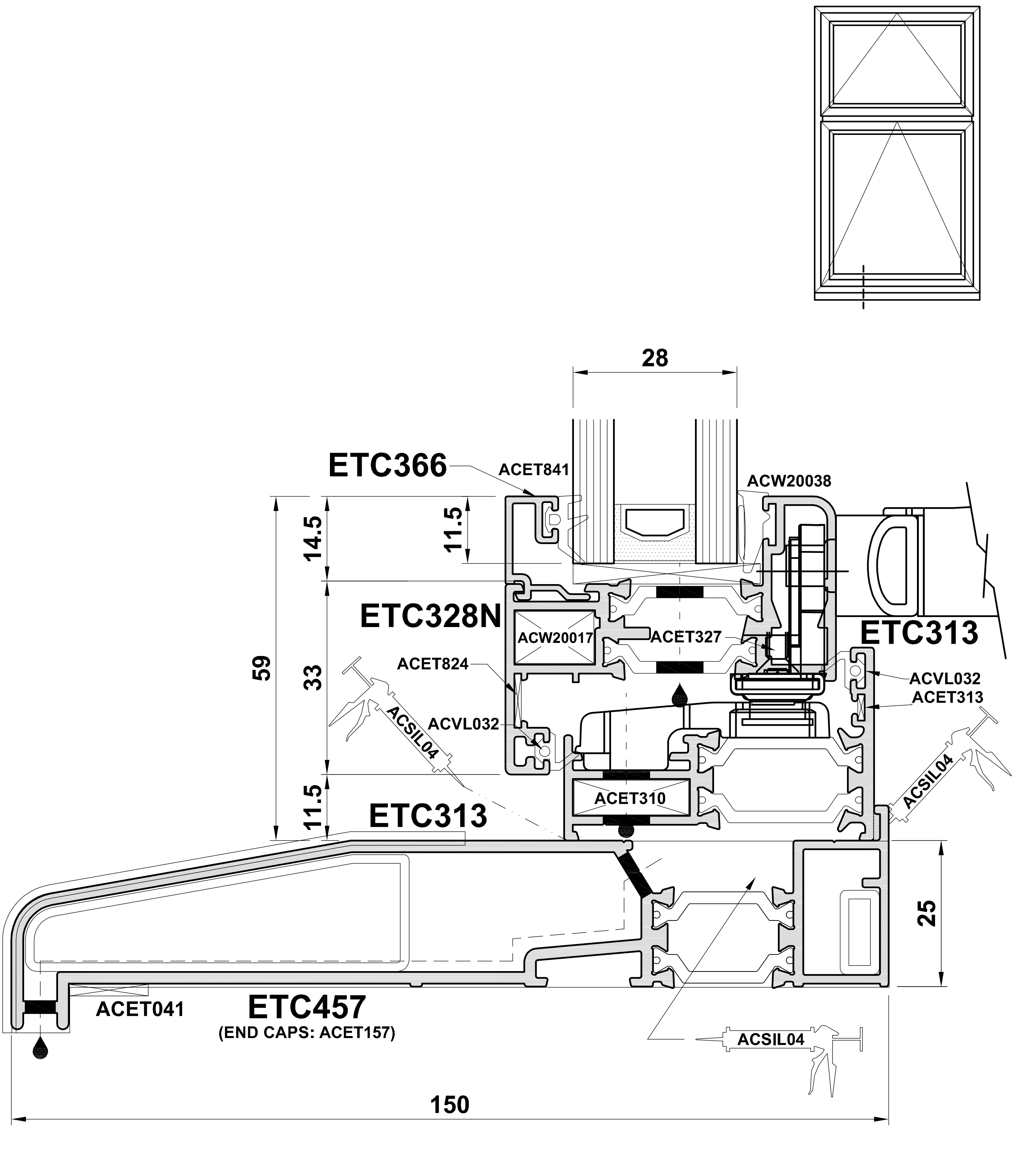
Detail 9A



Note: Where ETC343 is used, concealed drainage through a cill is recommended.

Do Not Scale From This Drawing

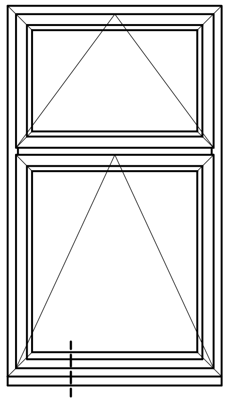
Detail 9B

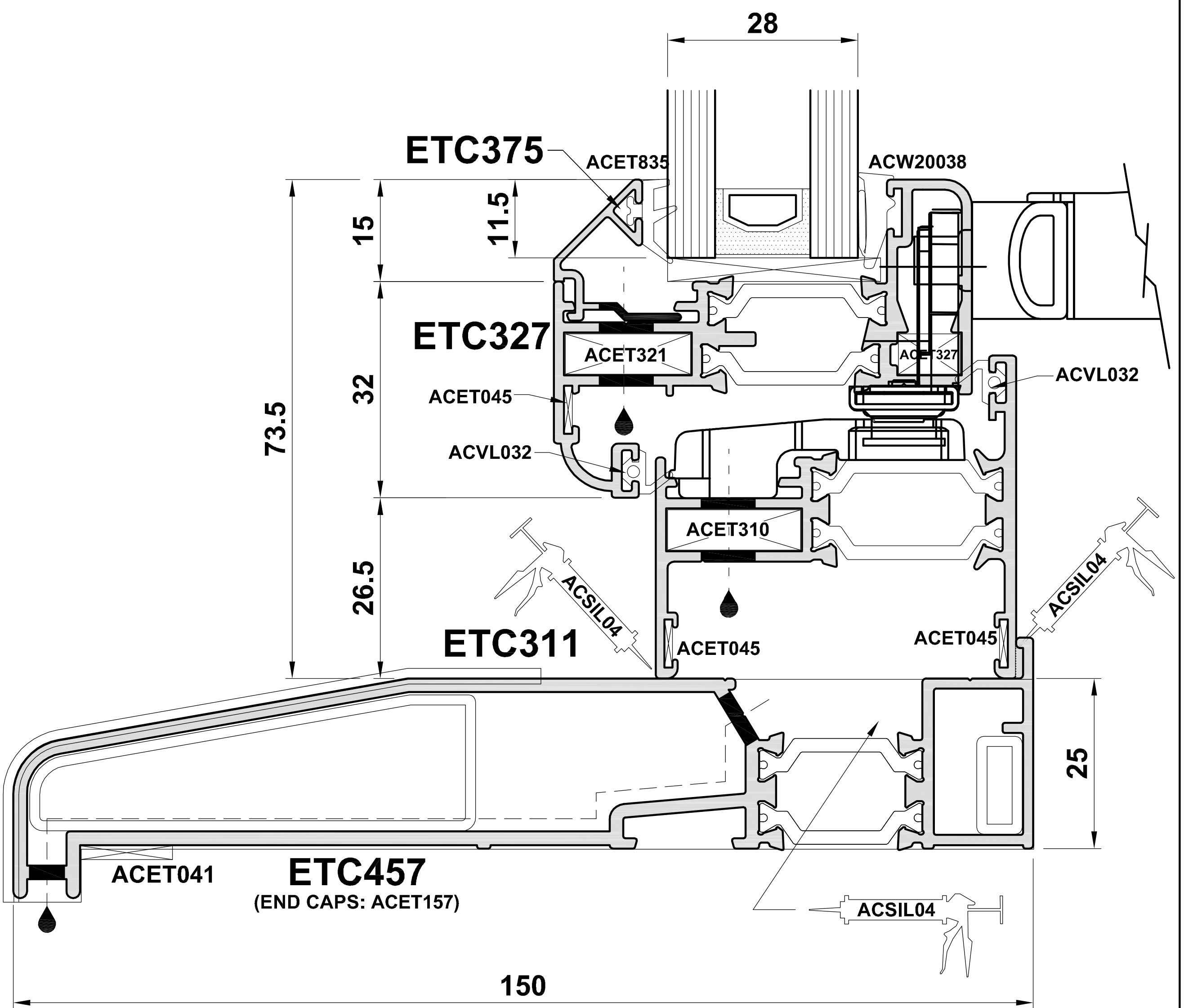


Cill end caps should be sealed to cill to prevent water egress over edge

Do Not Scale From This Drawing

Detail 9C

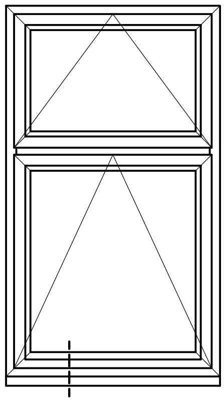


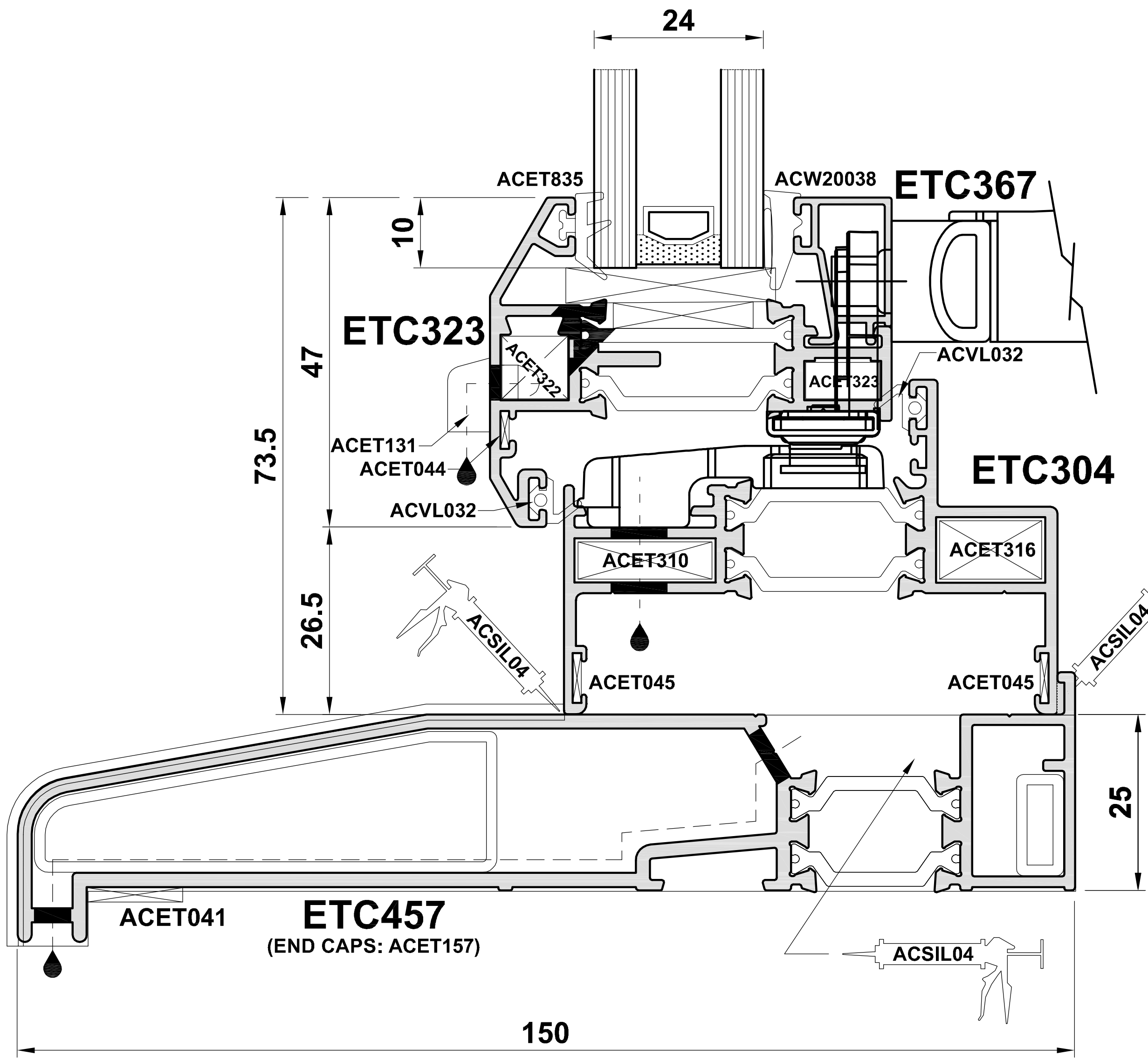


Cill end caps should be sealed to cill to prevent water egress over edge

Do Not Scale From This Drawing

Detail 9D

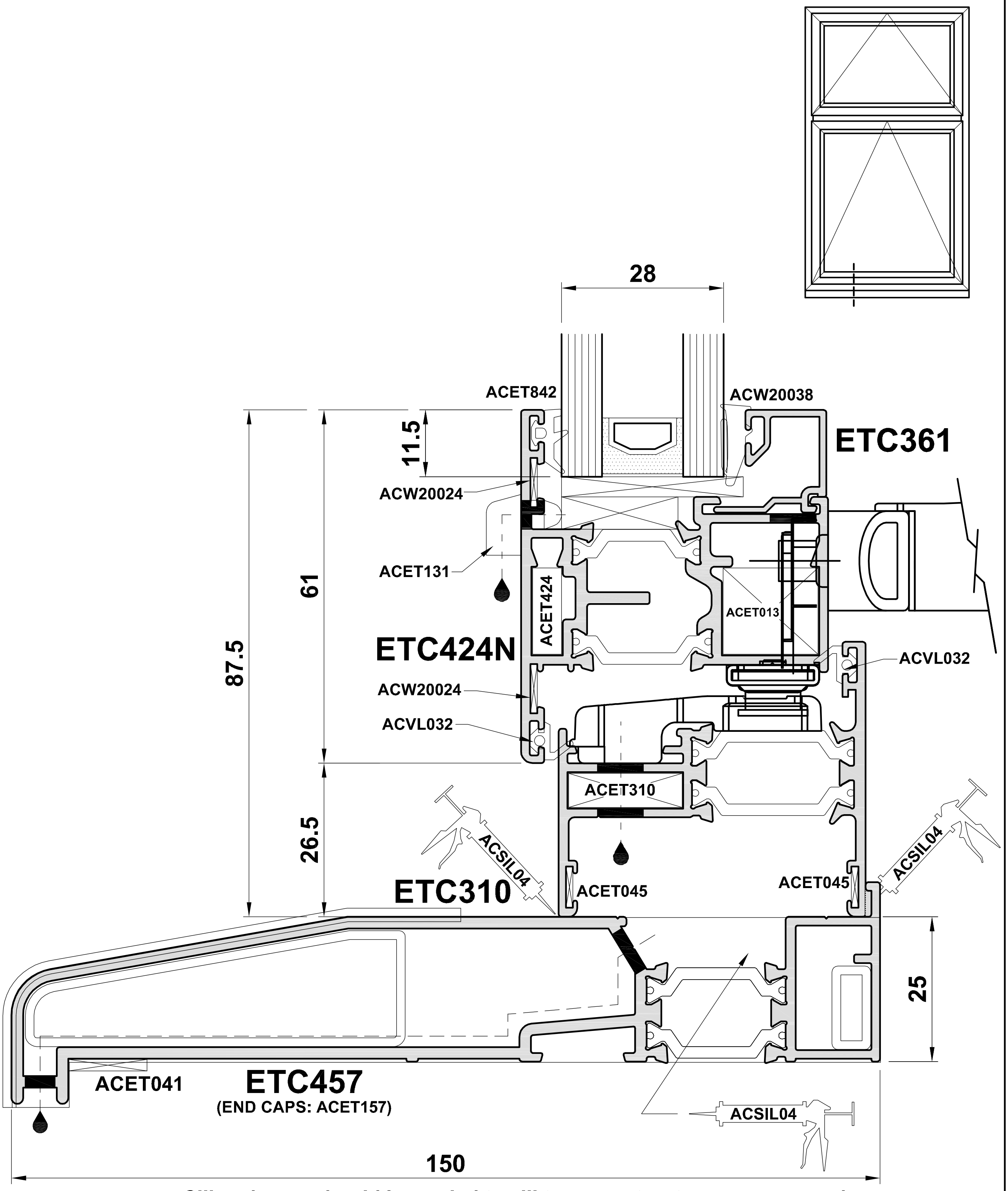




Cill end caps should be sealed to cill to prevent water egress over edge

Do Not Scale From This Drawing

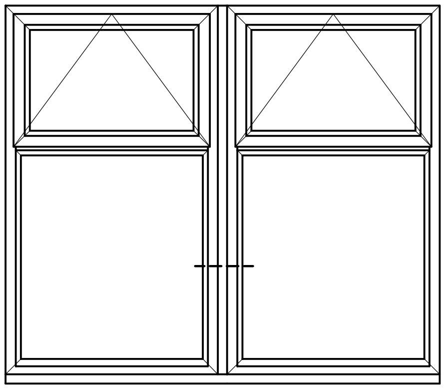
Detail 9E

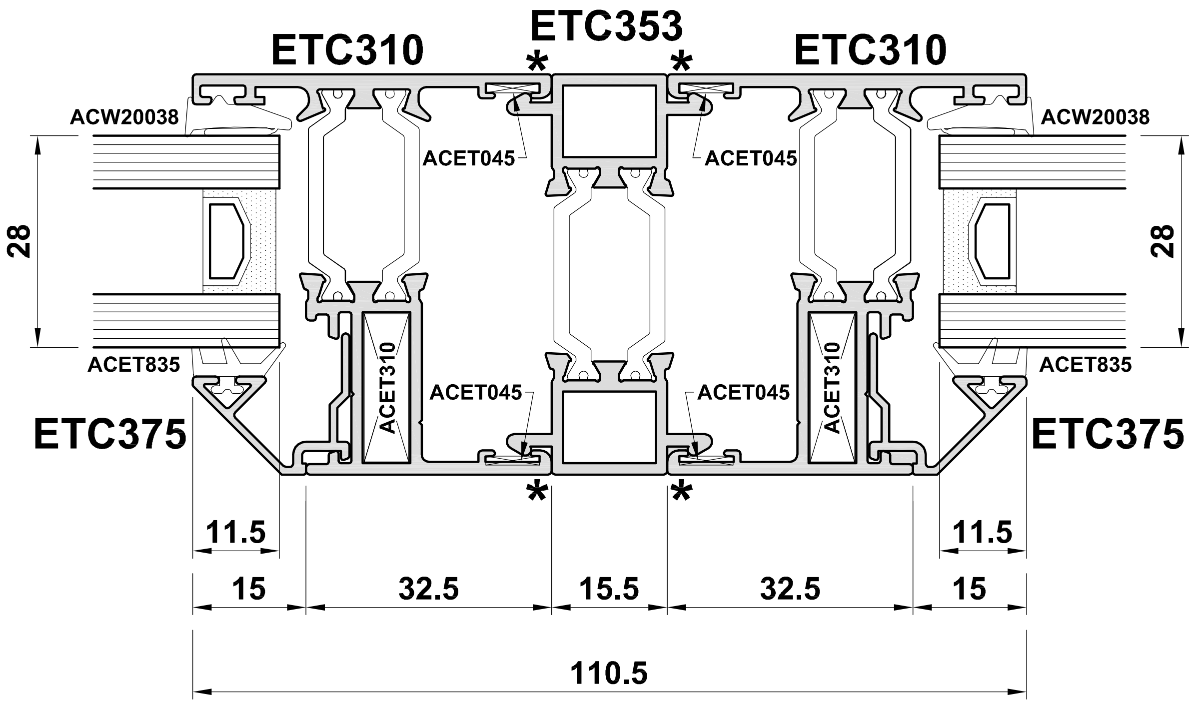


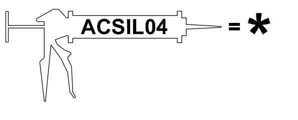
Cill end caps should be sealed to cill to prevent water egress over edge

Do Not Scale From This Drawing

Detail 10A

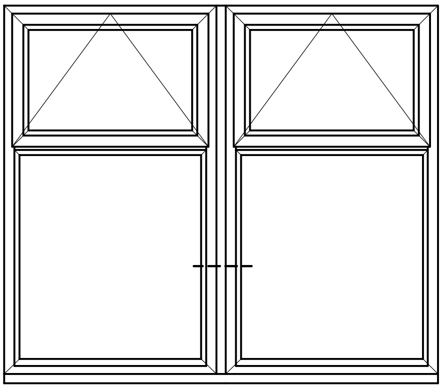


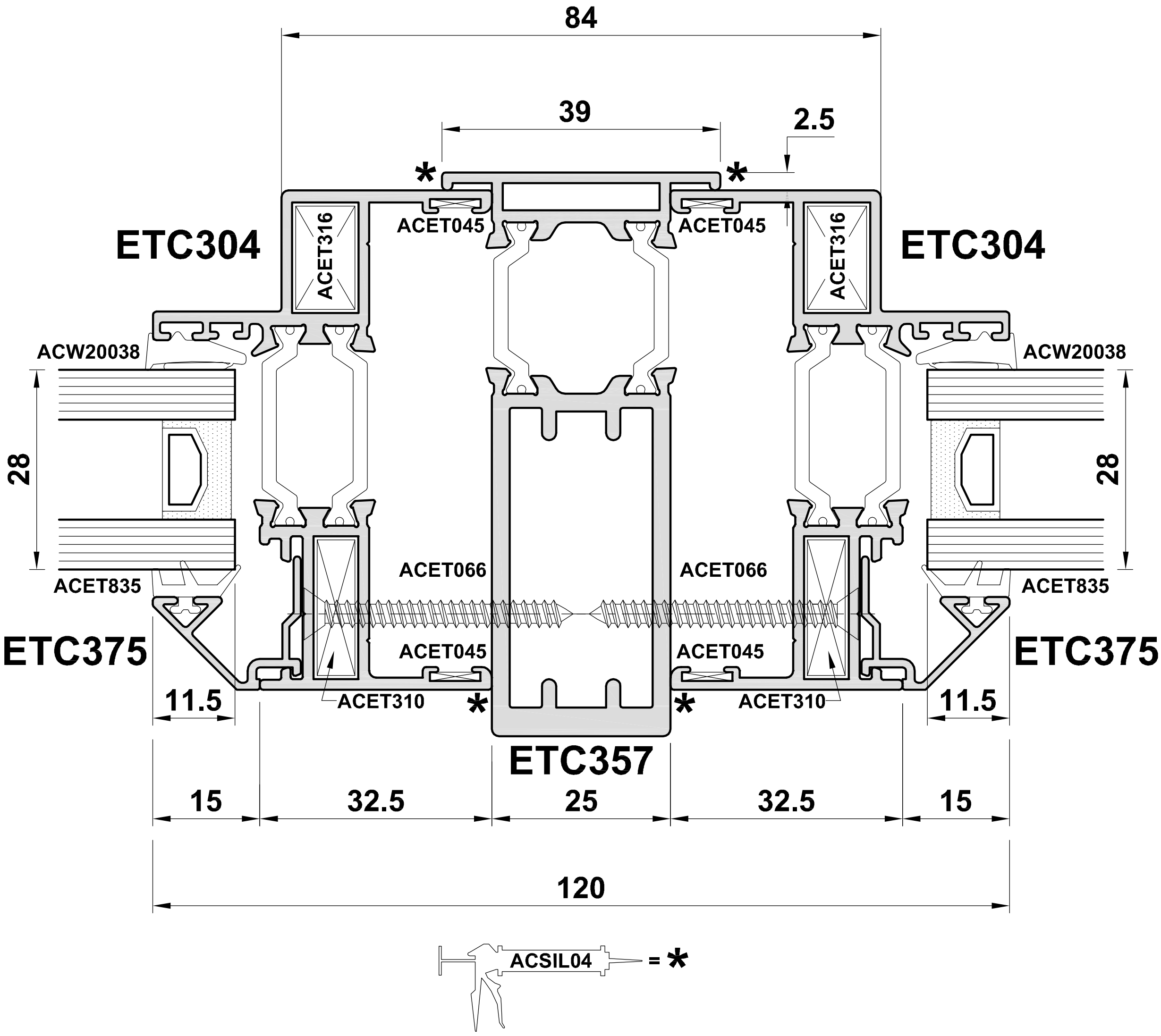




Do Not Scale From This Drawing

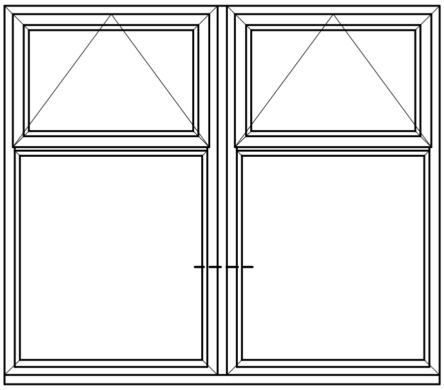
Detail 10B

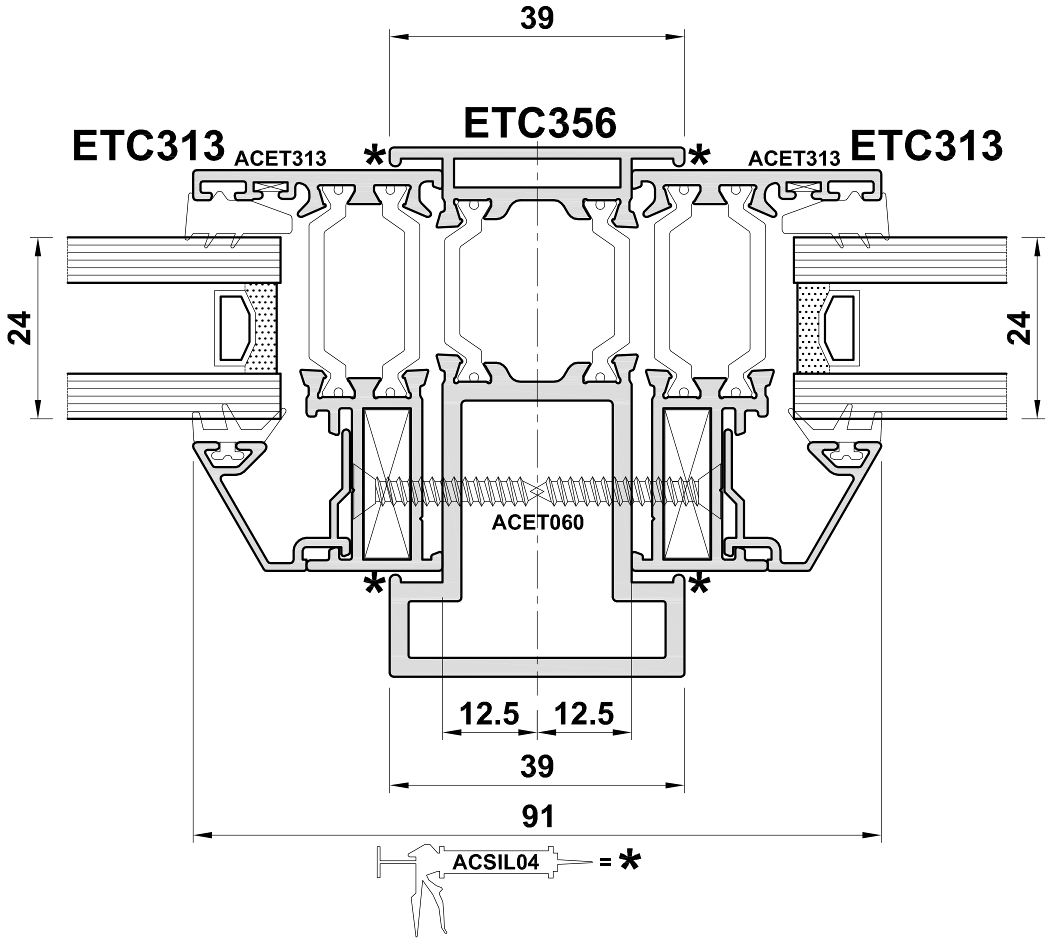




Do Not Scale From This Drawing

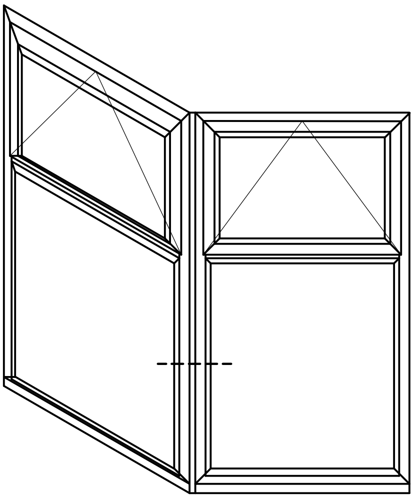
Detail 10C

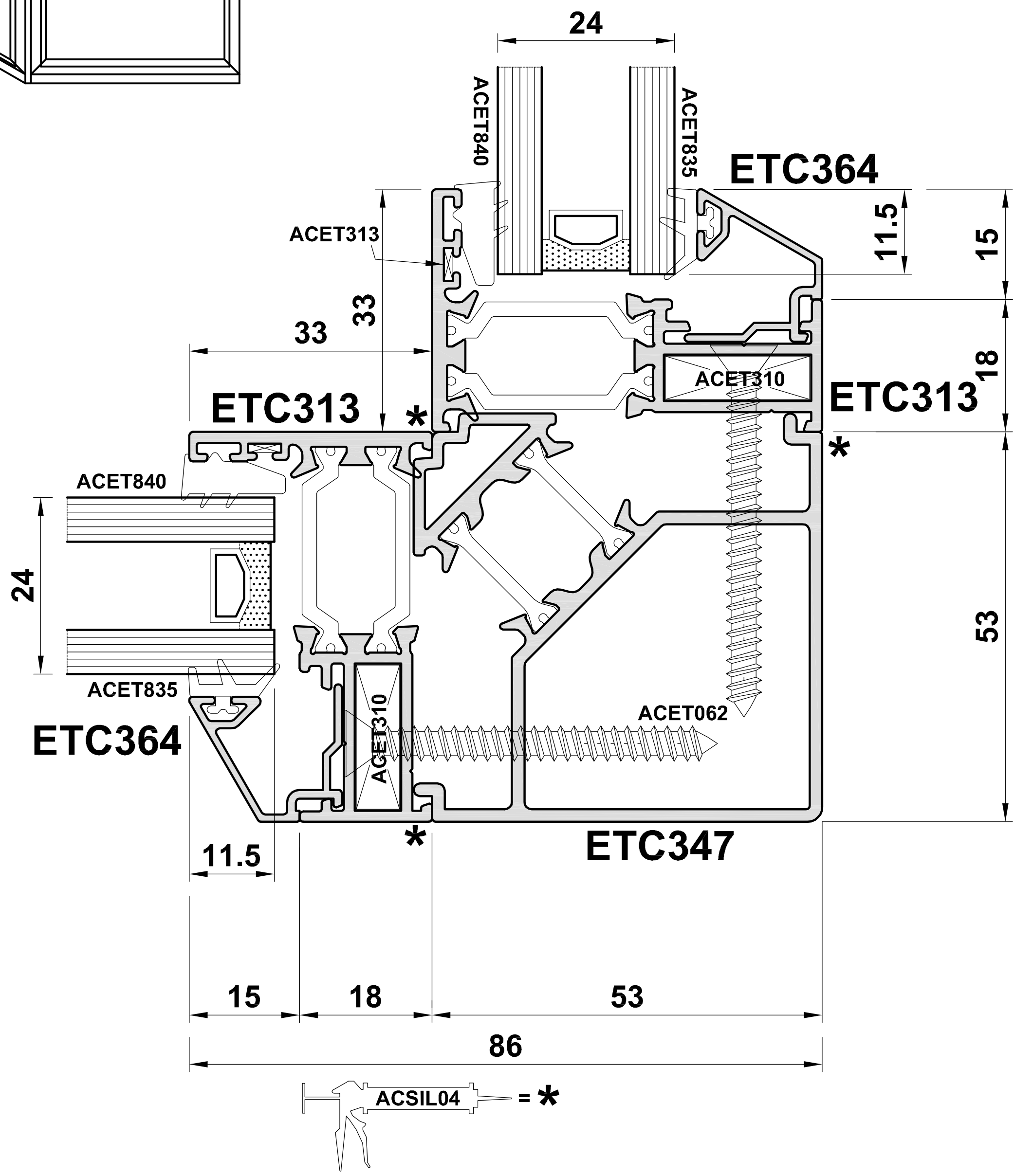




Do Not Scale From This Drawing

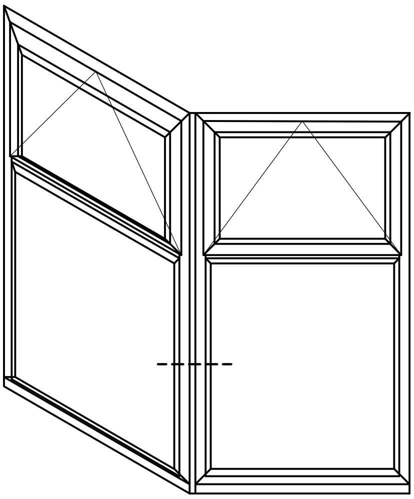
Detail 10D

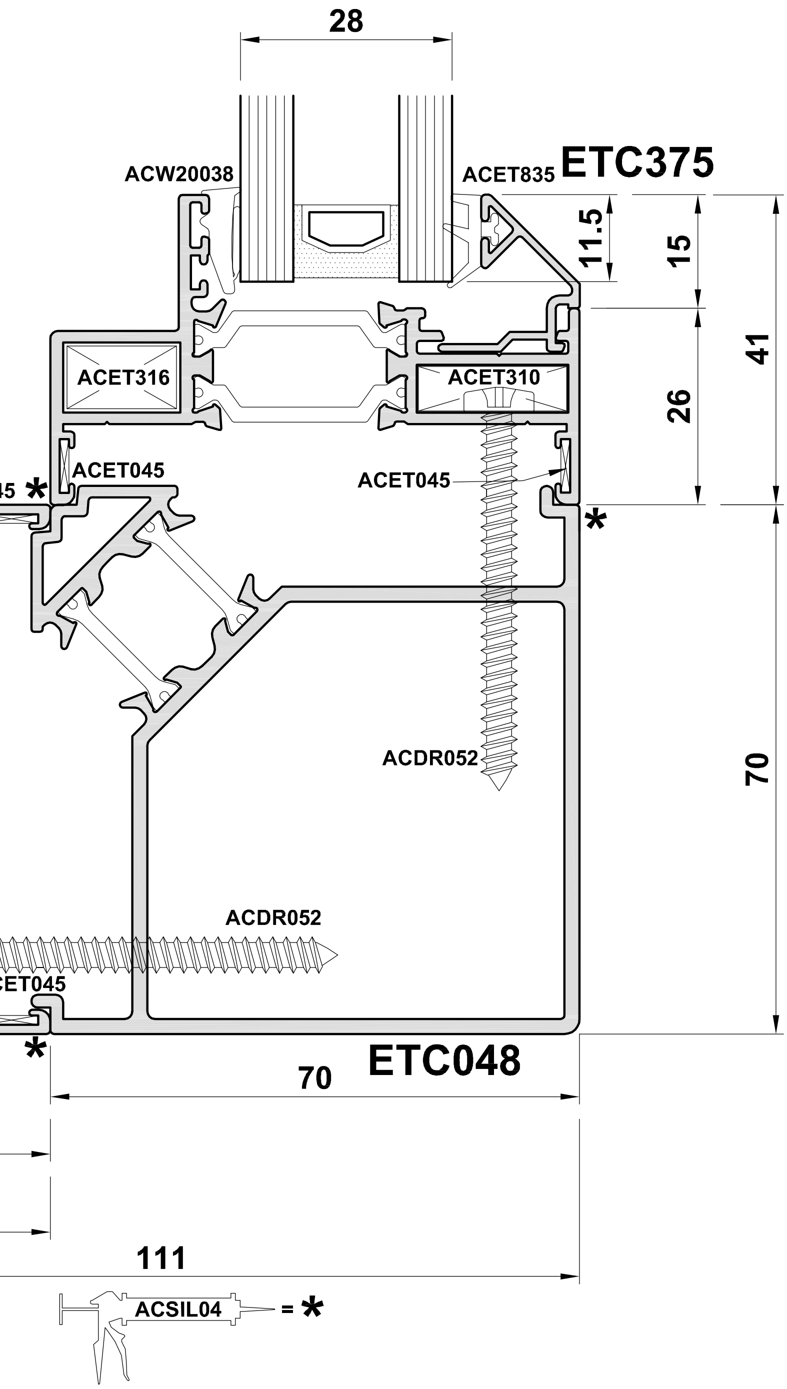




Do Not Scale From This Drawing

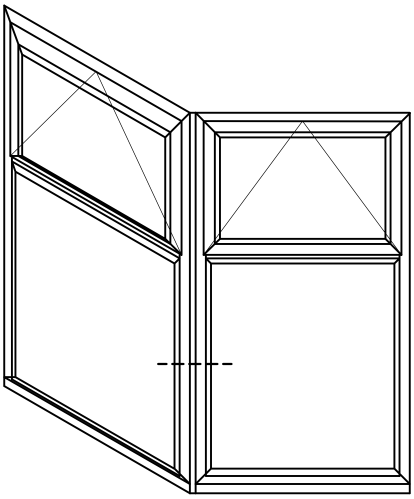
Detail 10E

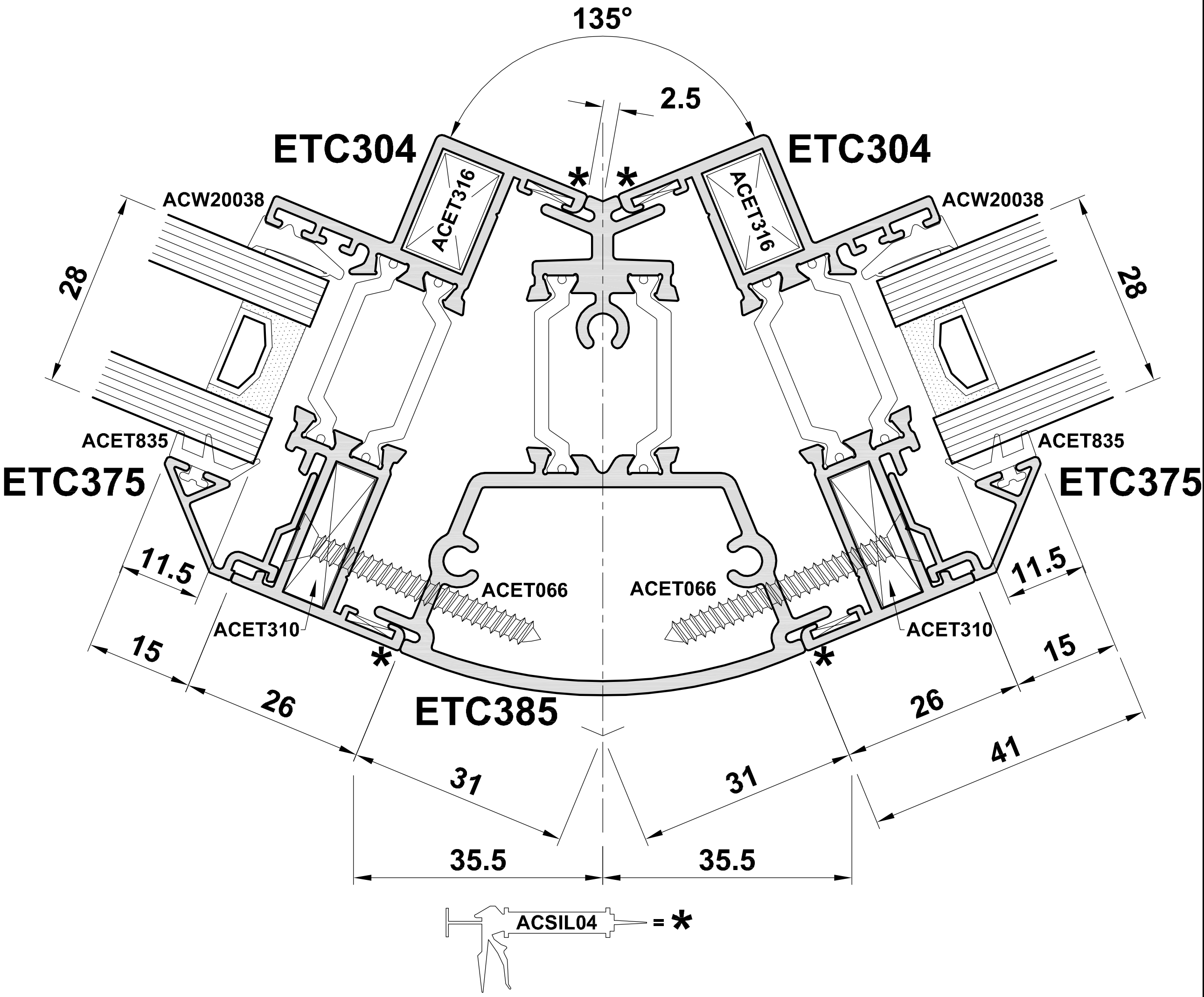




Do Not Scale From This Drawing

Detail 10F





Do Not Scale From This Drawing

ISSUED : MAY 2016

Section D

Statics

**For Wind Loading Limitations,
Please Contact
The Technical Department.
Tel : +44 (0) 1934 876 100**

Section E

Construction Drawings

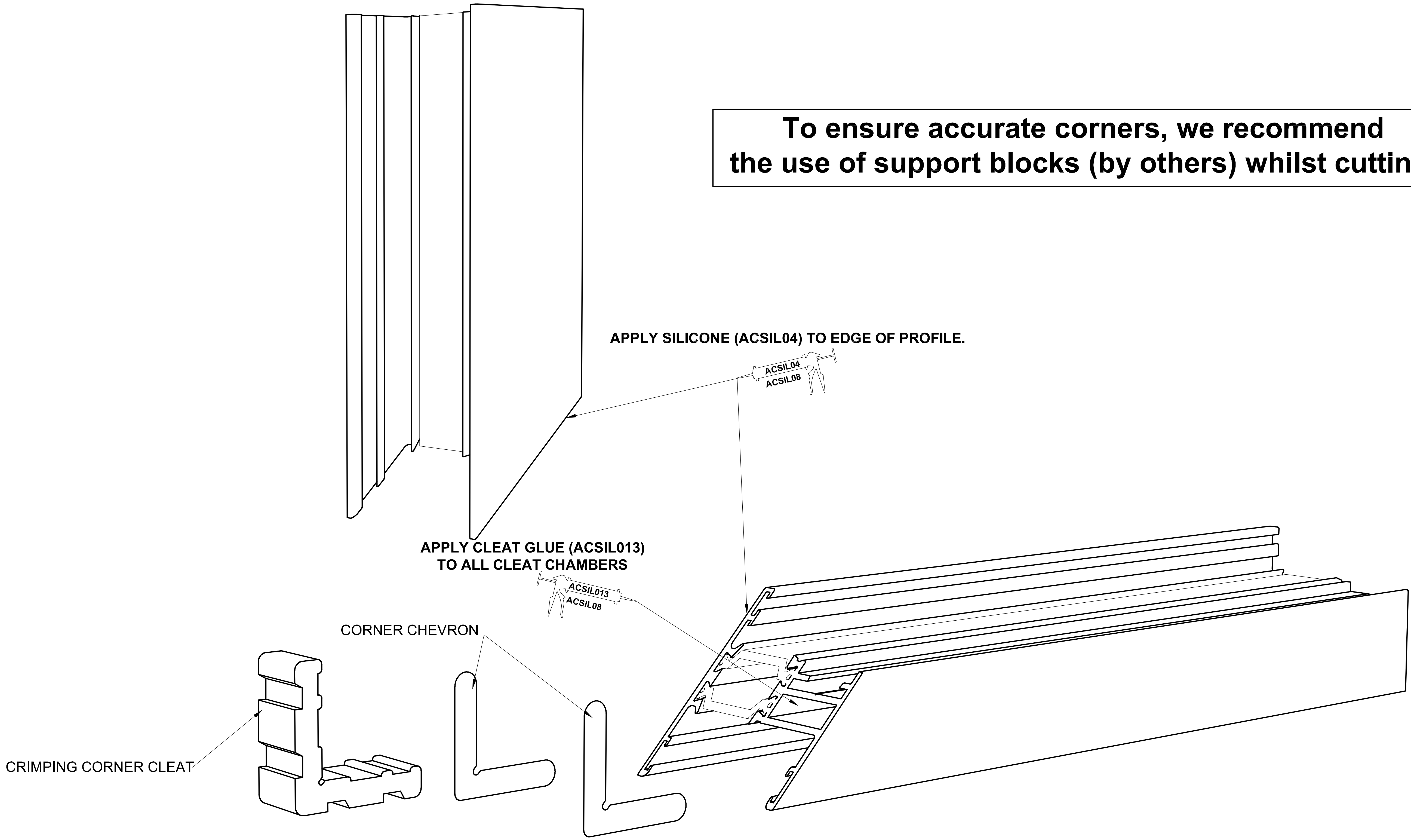
Index

E ETC

IF IN DOUBT ASK!

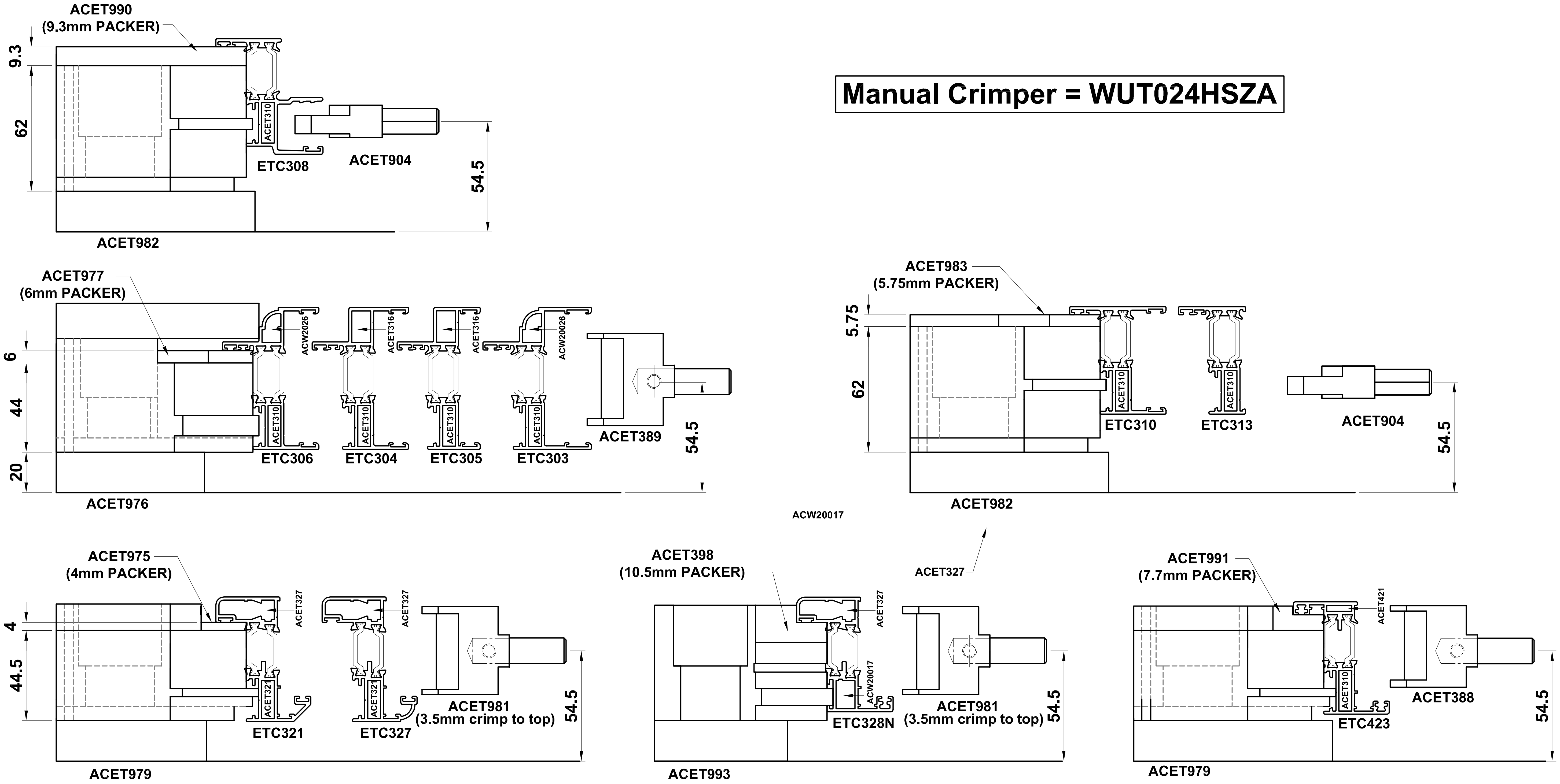
Typical Corner Detail

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

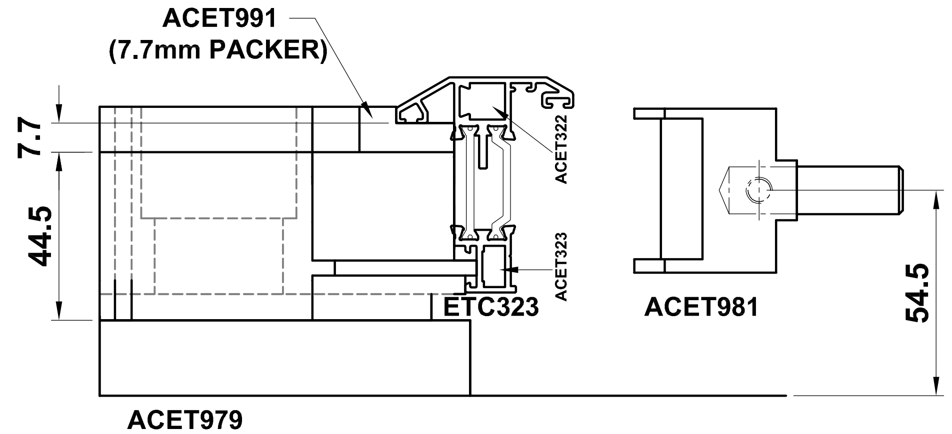


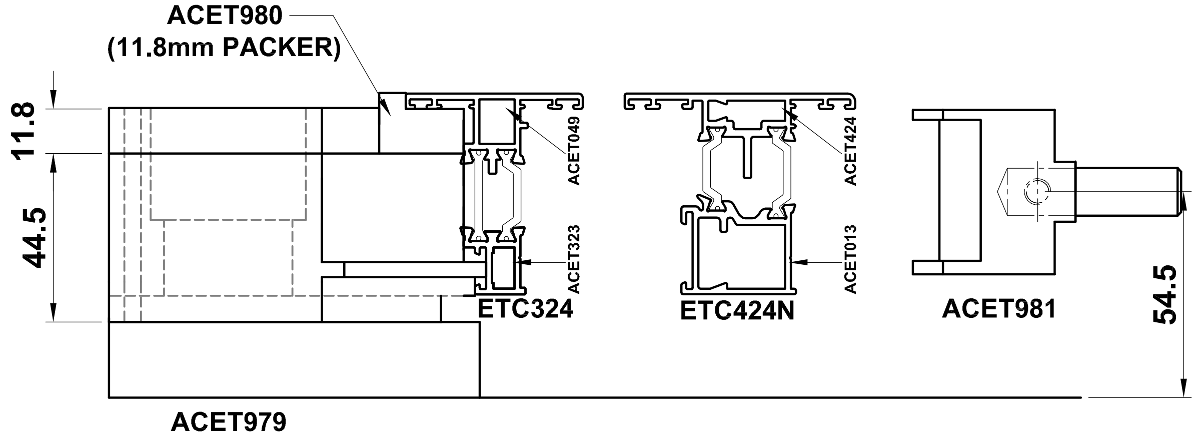
Do Not Scale From This Drawing

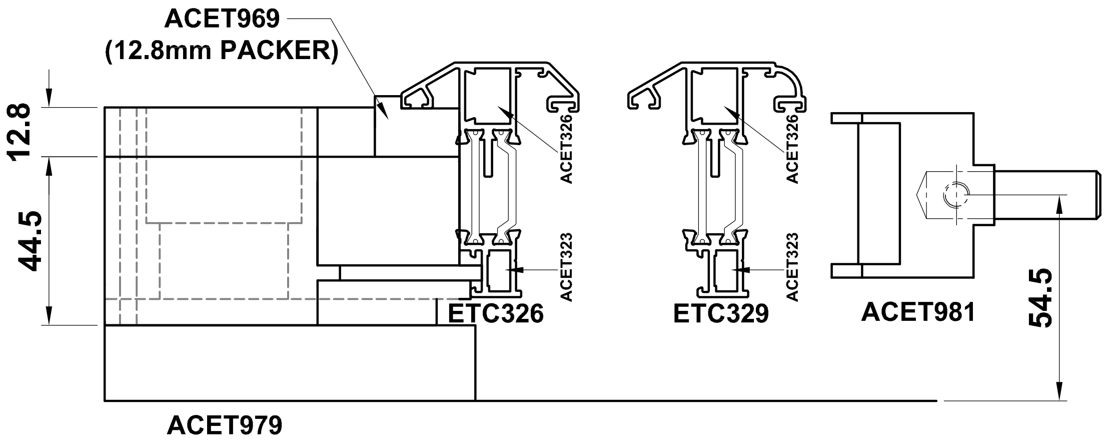
Corner Crimping - Externally Glazed Sections



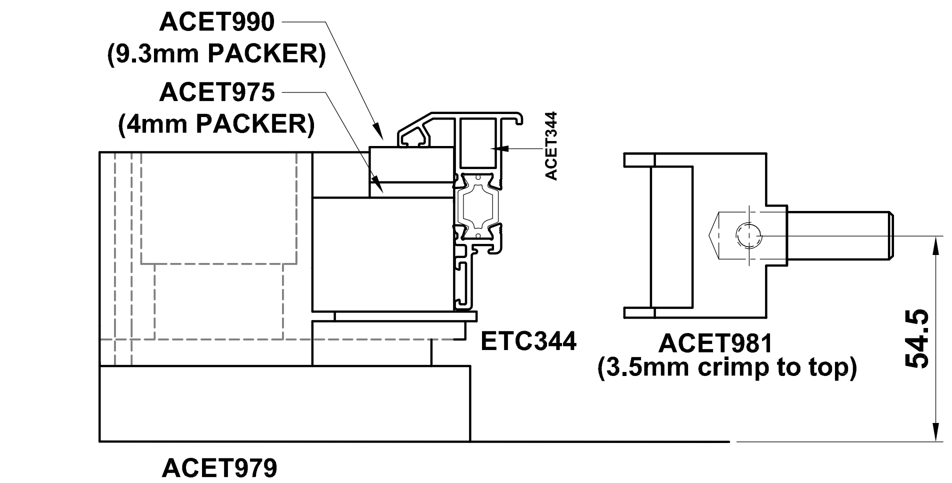
Corner Crimping - Internally Glazed Sections

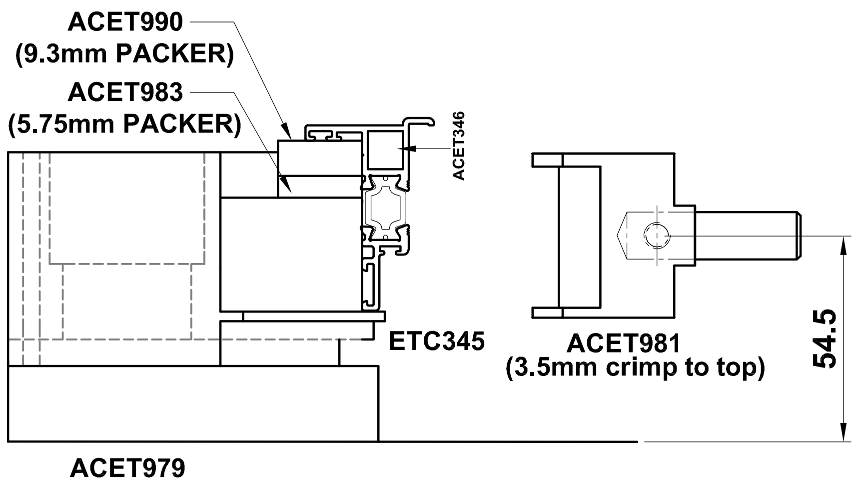


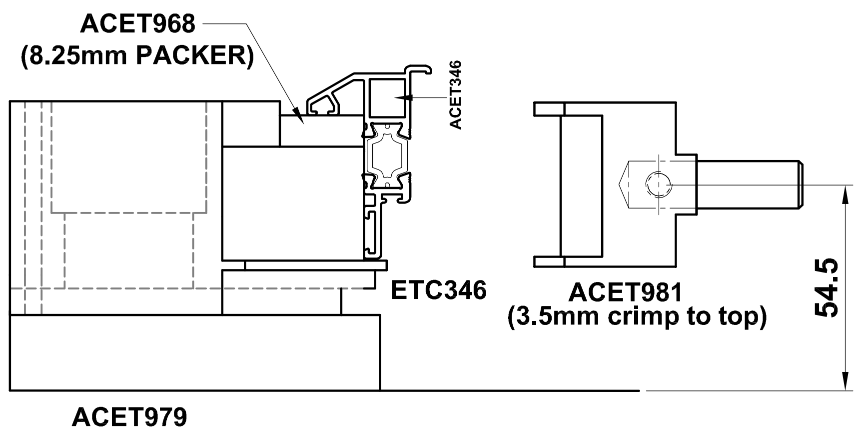




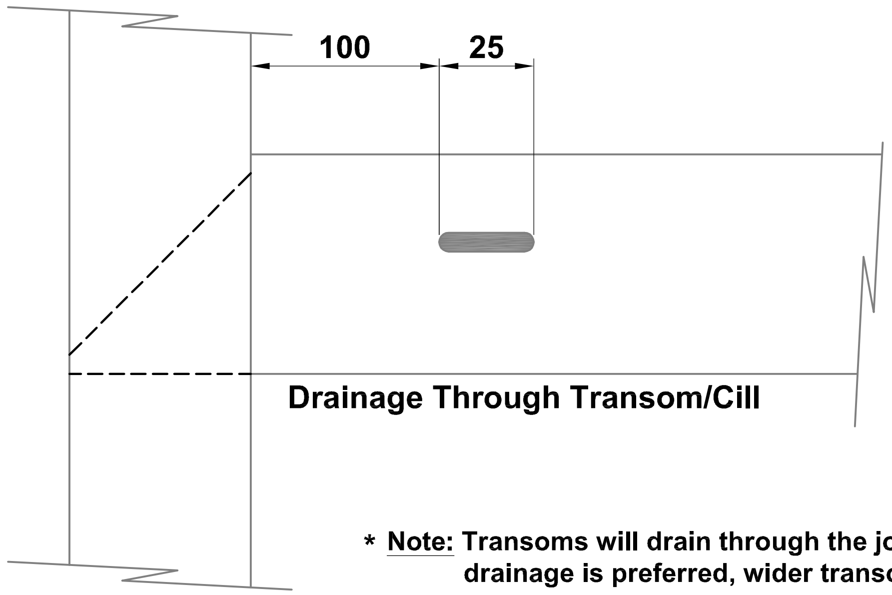
Manual Crimper = WUT024HSZA



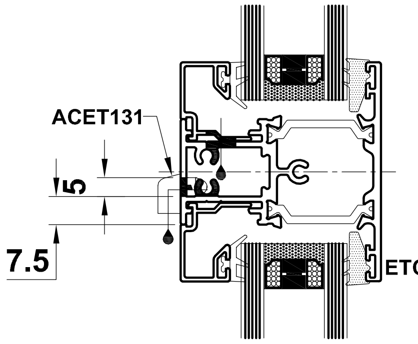




Drainage

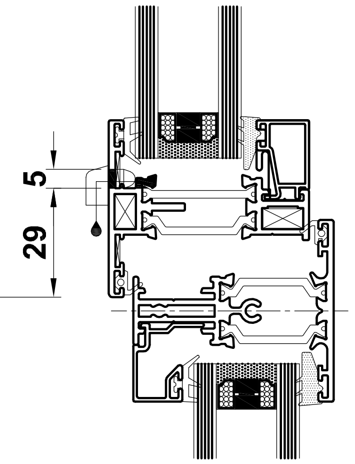


Drainage Through Transom/Cill

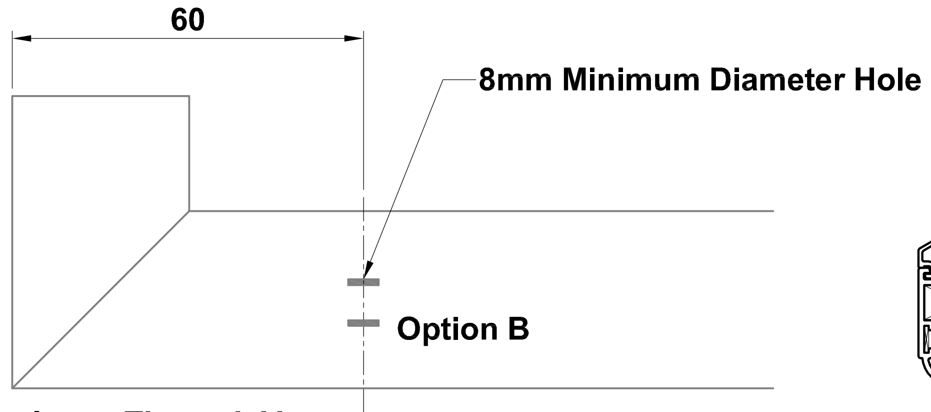


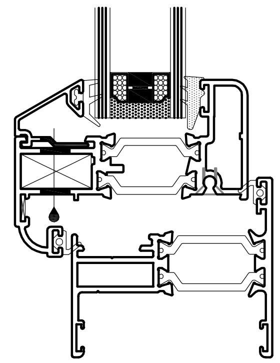
Transom Fixed Light *

* Note: Transoms will drain through the join to the outerframe. If face drainage is preferred, wider transom ETC335 must be used.

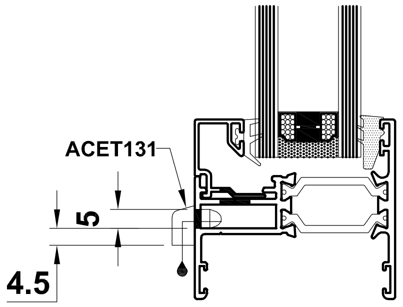


Drainage Through Vent

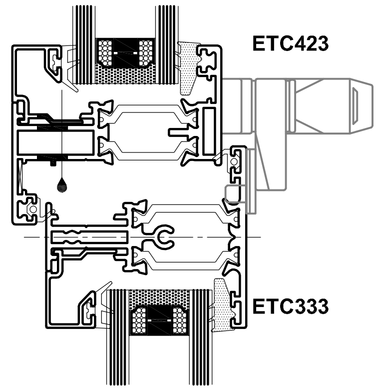




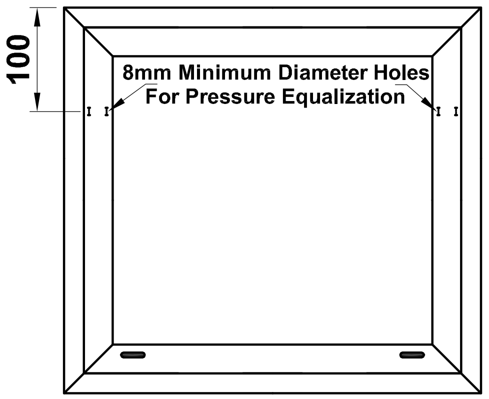
Drainage Through Vent

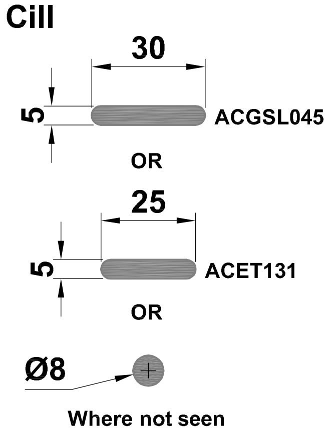


Outerframe Without Cill

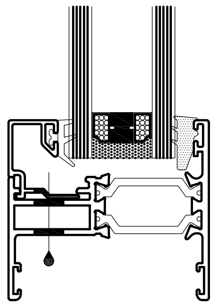


Transom With Vent *

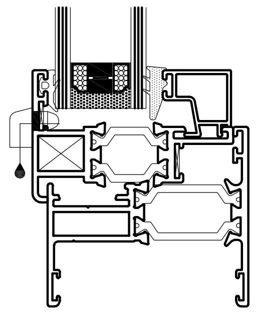




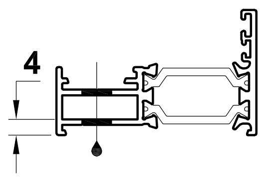
Important Note: All exposed aluminium should be coated using ACSIL014 or painted to match the frame.



Outerframe With Cill



Outerframe With Reverse Adaptor

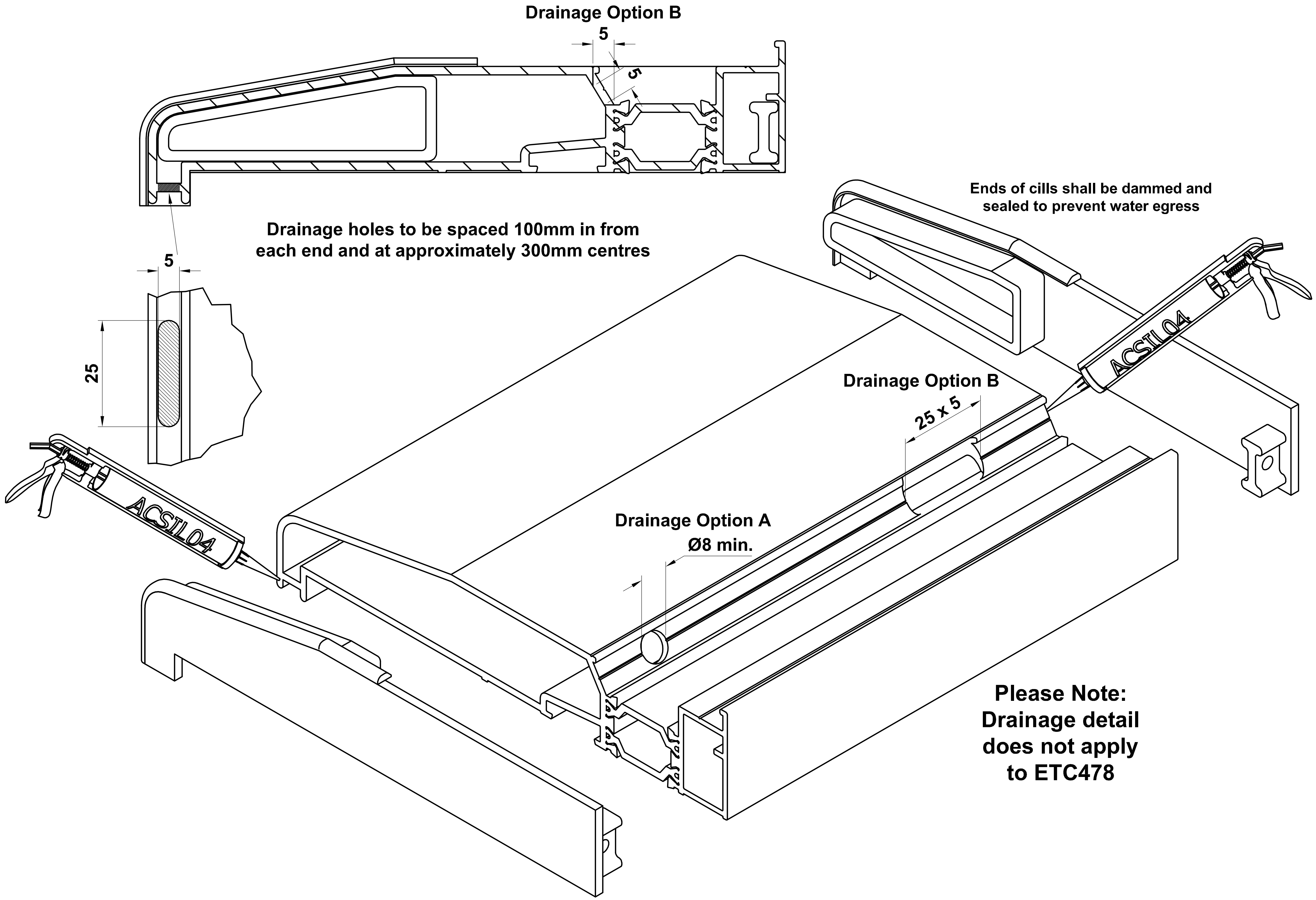


ETC313 should only be used with a cill to allow a drainage path.

Do Not Scale From This Drawing

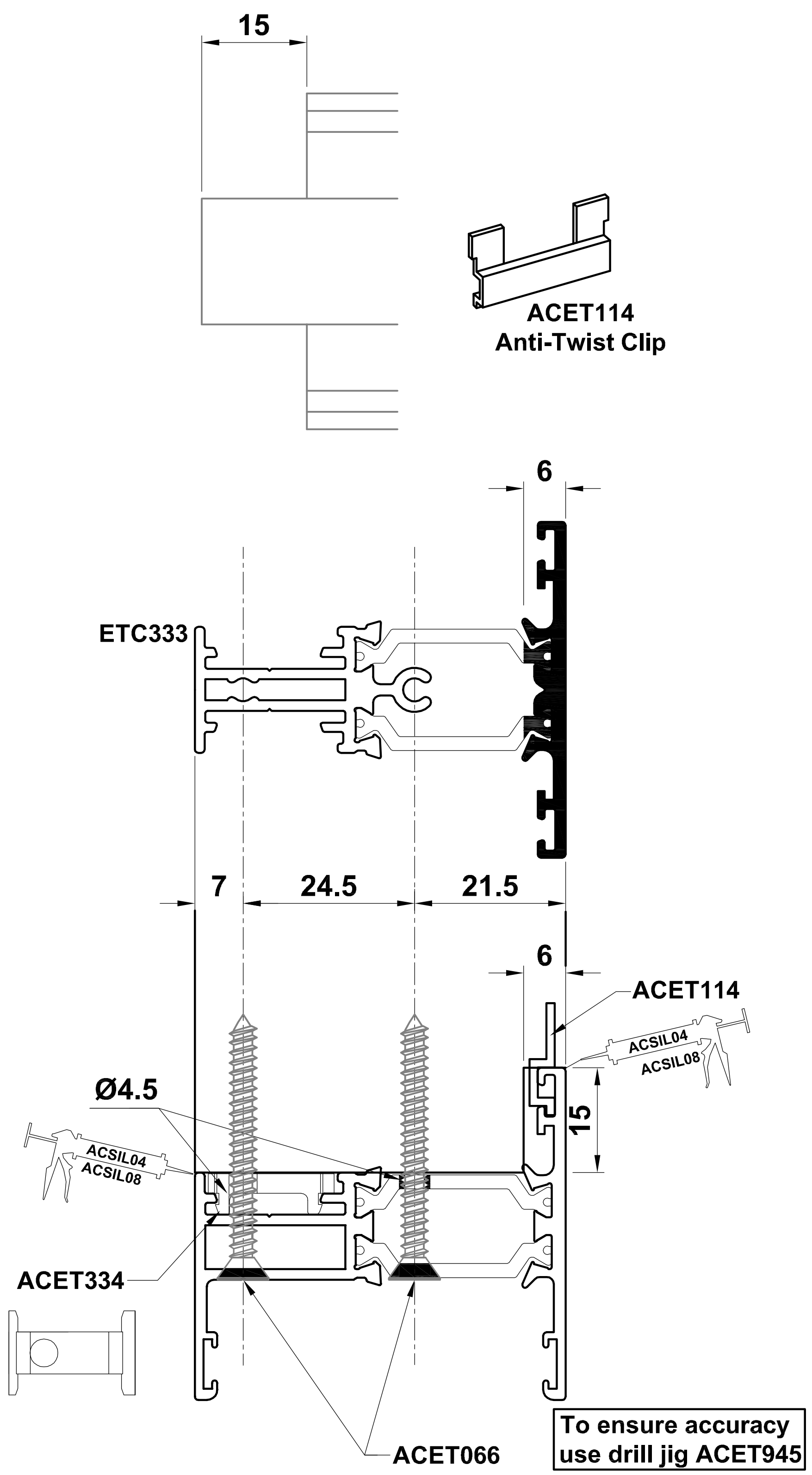
ISSUED : APRIL 2016

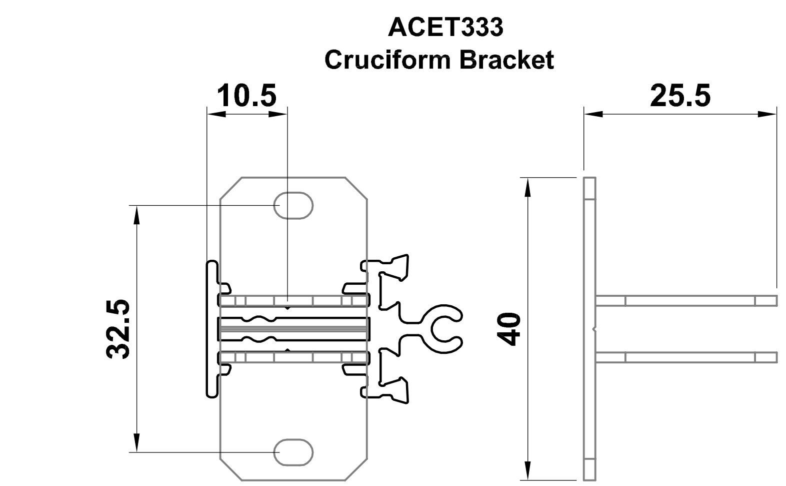
Sub Cill Drainage

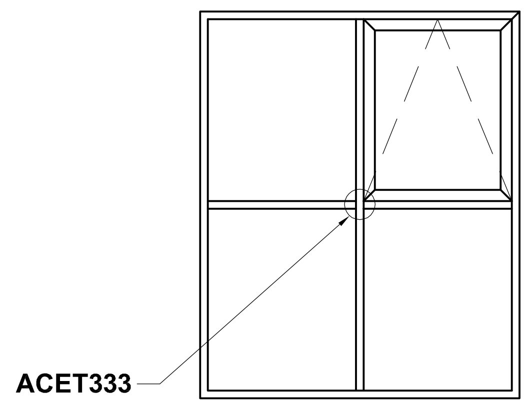


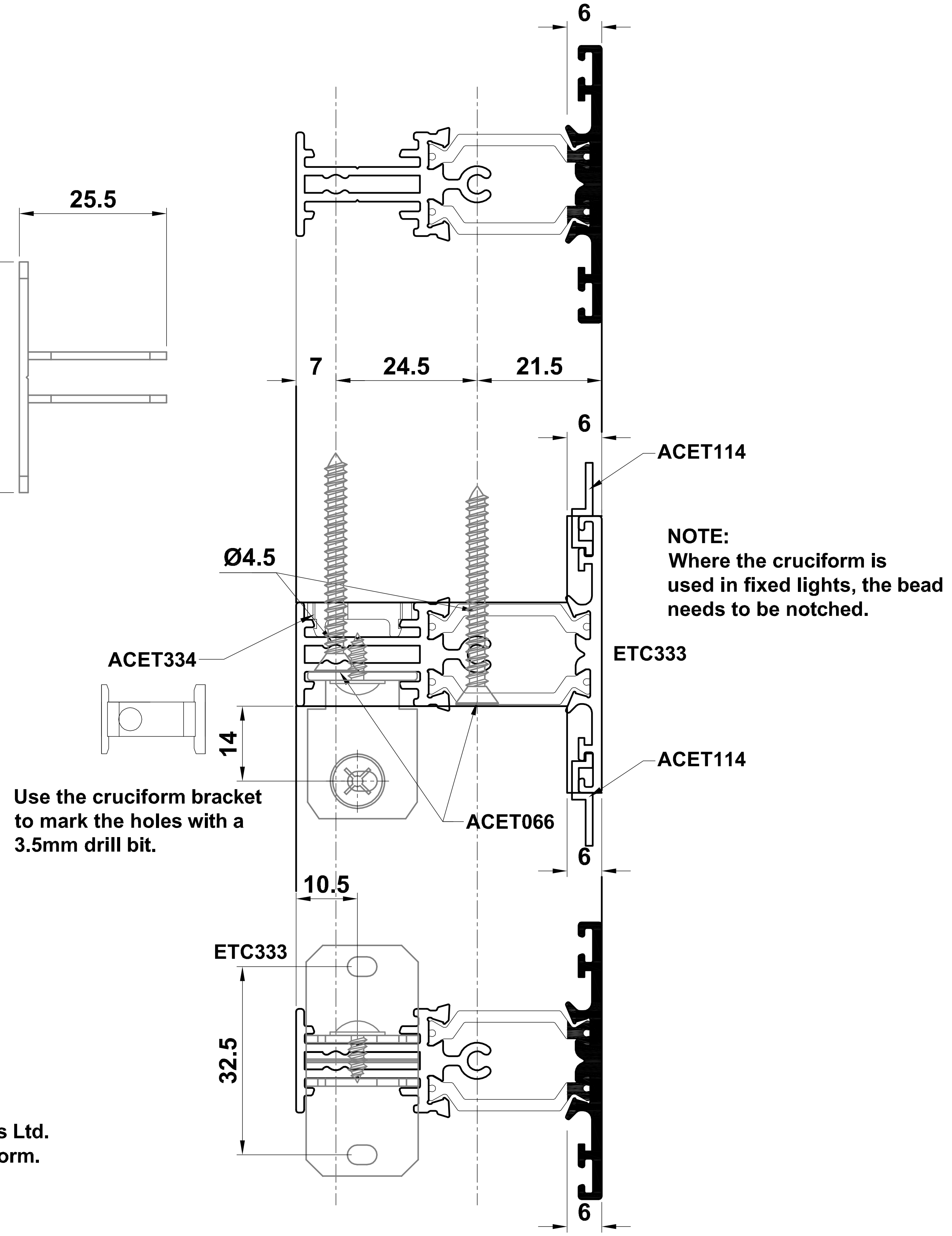
Do Not Scale From This Drawing

Transom/Mullion Preparation







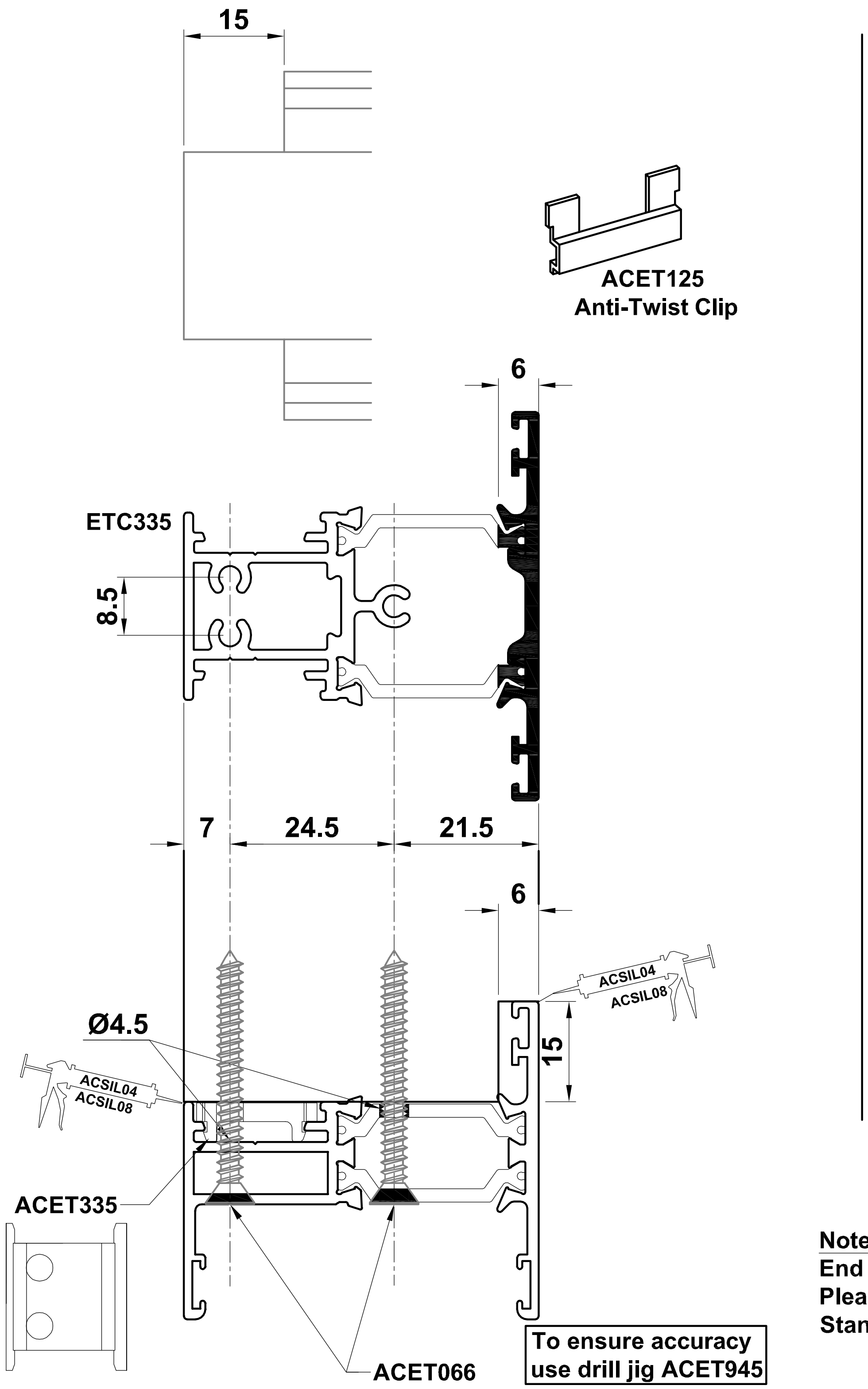


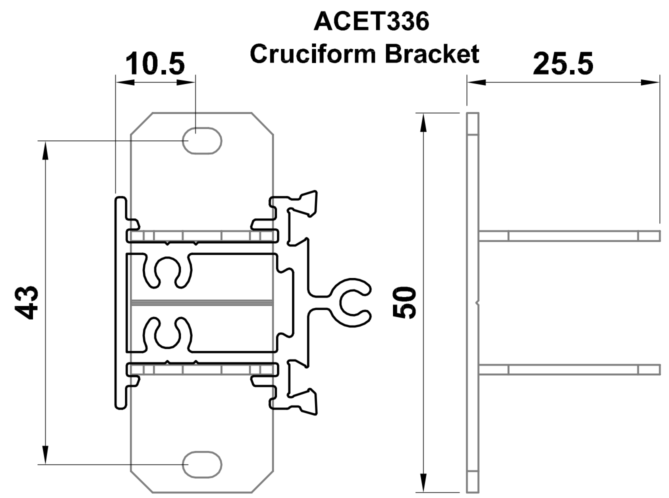
Note:
End mill cutters can be ordered through Smart Systems Ltd.
Please contact the Technical Department for an order form.
Standard delivery is 2-3 weeks approx.

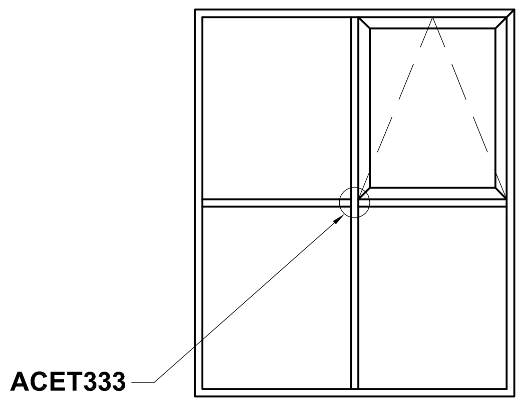
Do Not Scale From This Drawing

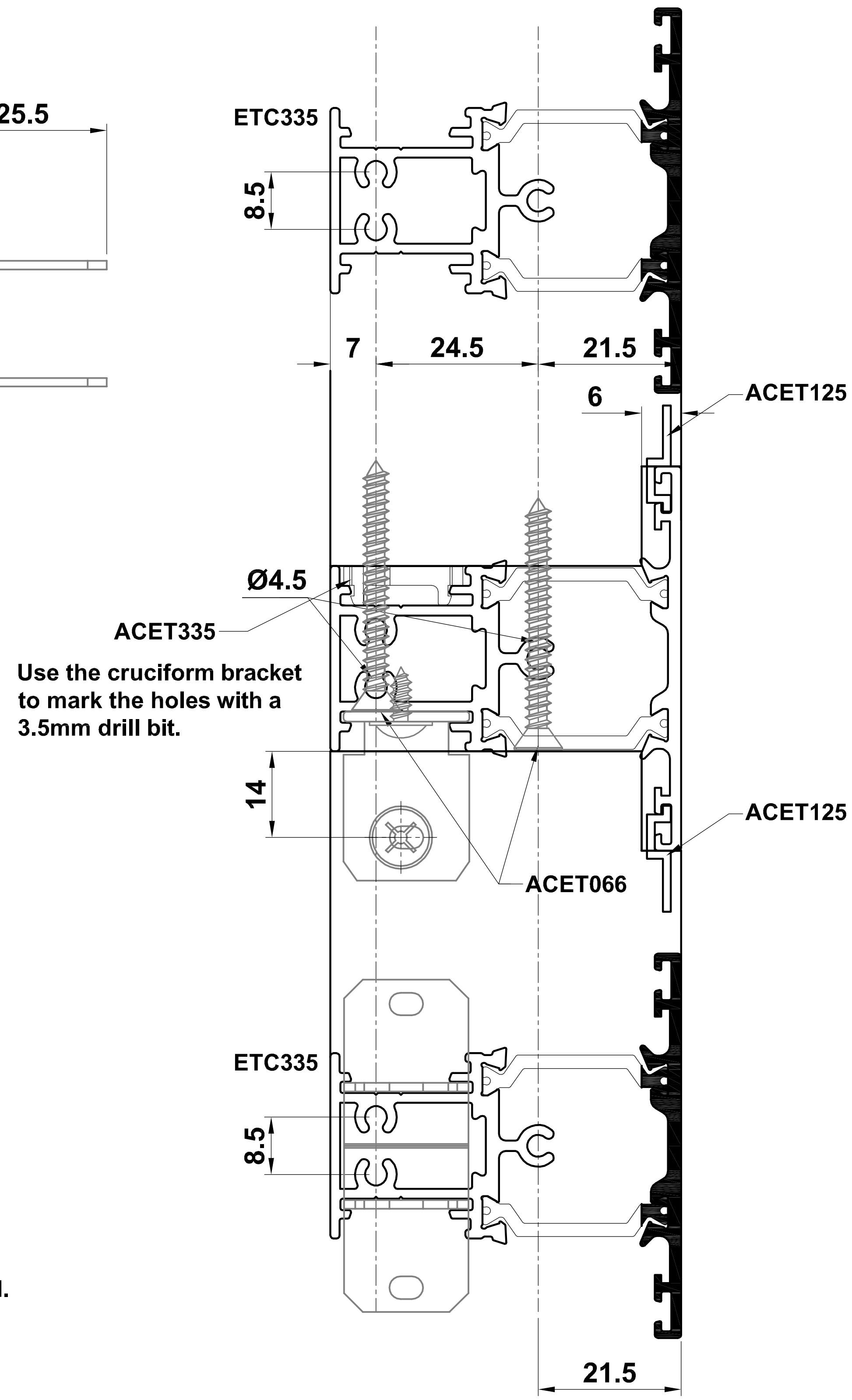
ISSUED : APRIL 2016

Transom/Mullion Preparation





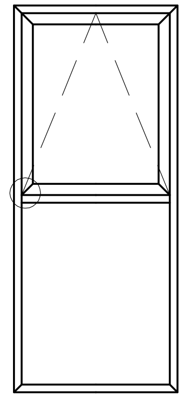




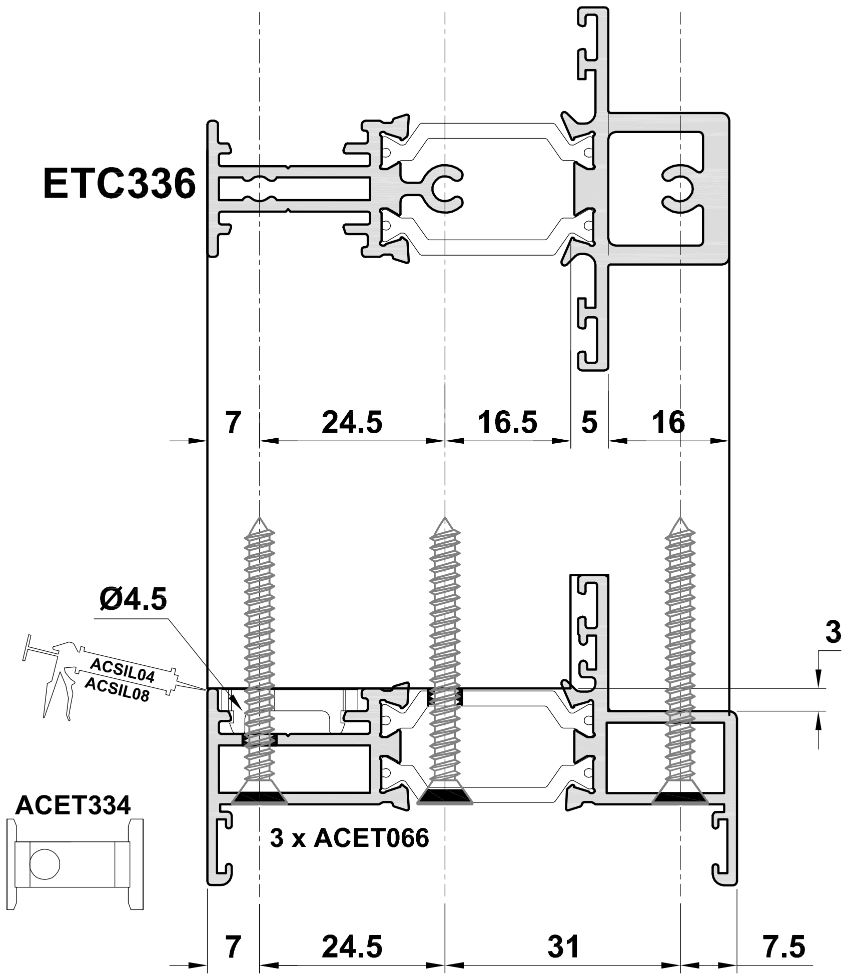
Note:
End mill cutters can be ordered through Smart Systems Ltd.
Please contact the Technical Department for an order form.
Standard delivery is 2-3 weeks approx.

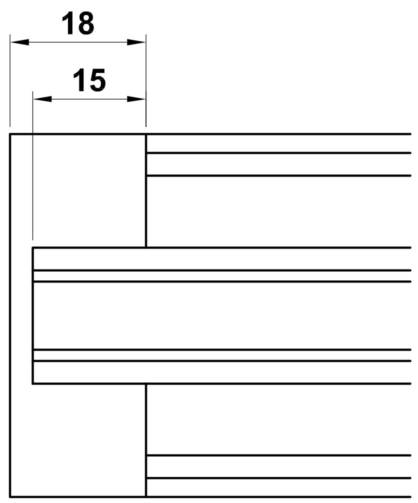
Alitherm 300

Transom/Mullion Preparation



Note:
End mill cutters can be ordered through Smart Systems Ltd.
Please contact the Technical Department for an order form.
Standard delivery is 2-3 weeks approx.

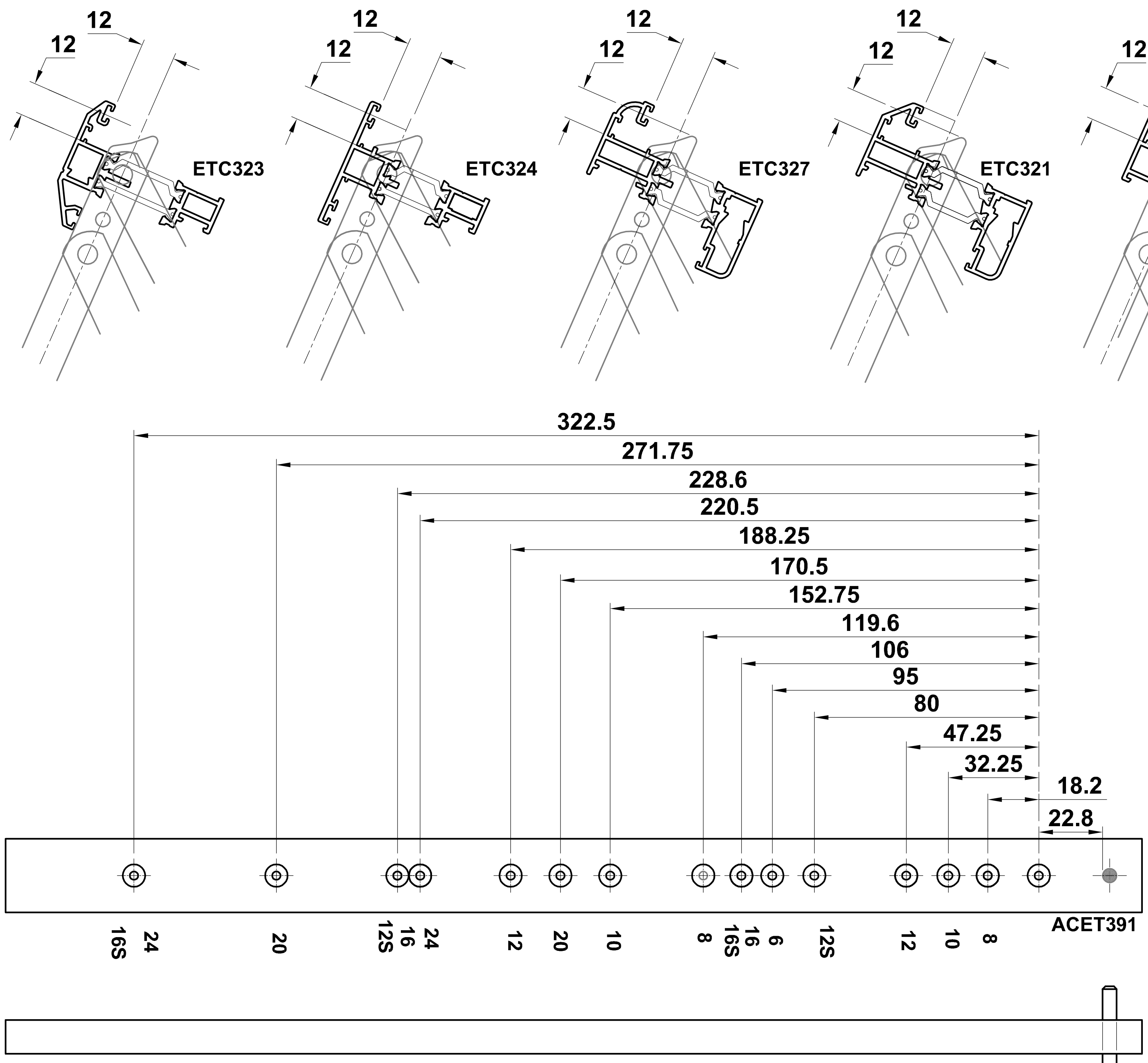


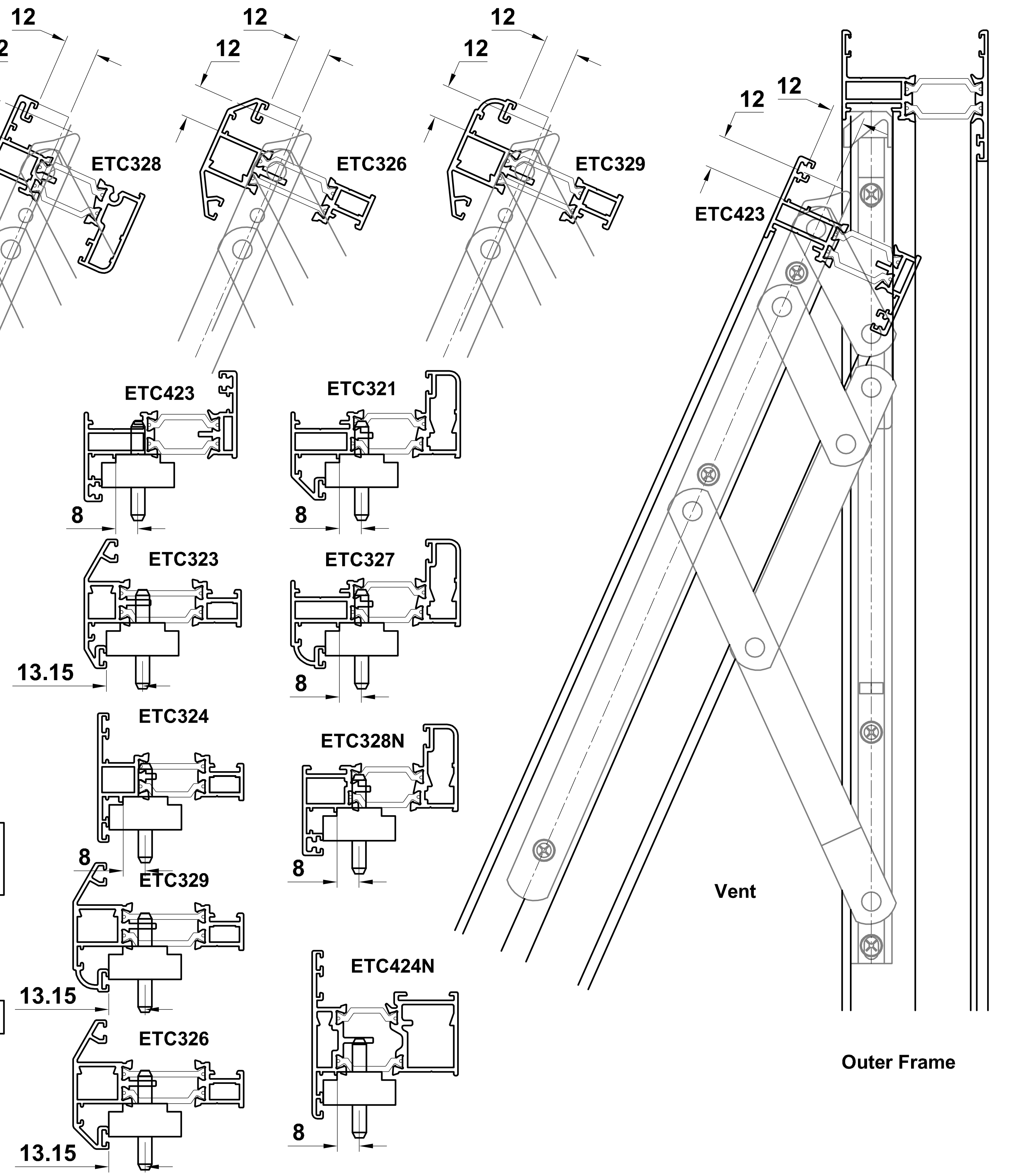


Do Not Scale From This Drawing

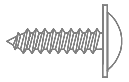
ISSUED : APRIL 2016

Top Hung & Side Hung Friction Hinge Details





To ensure accuracy use drill jig ACET941.
Numbers indicate stay length in inches, numbers followed by an 'S' are used for side hung stays.



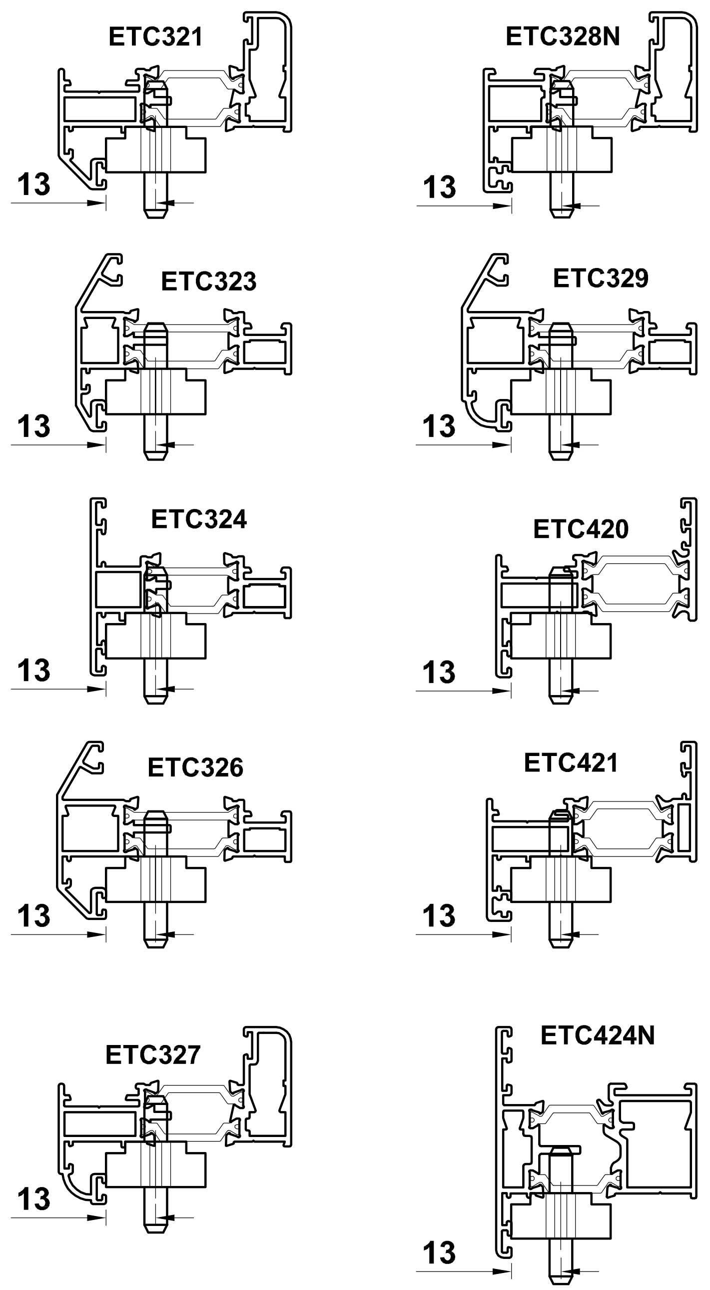
ACET070 = Recommended Screw

Vent Sizes 450mm or Smaller to be Reduced by 2mm

Do Not Scale From This Drawing

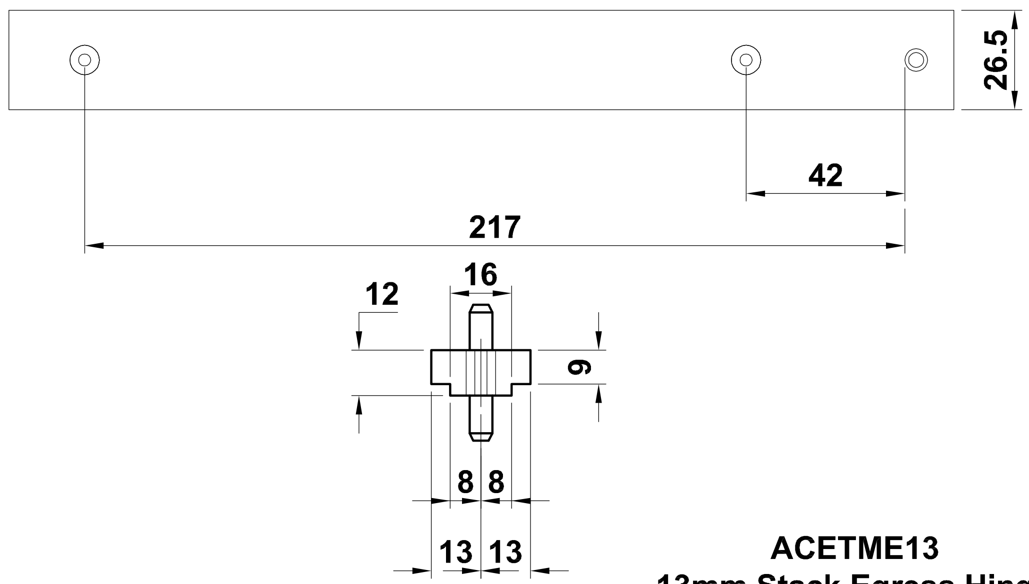
Egress Hinge Details

Alitherm 300



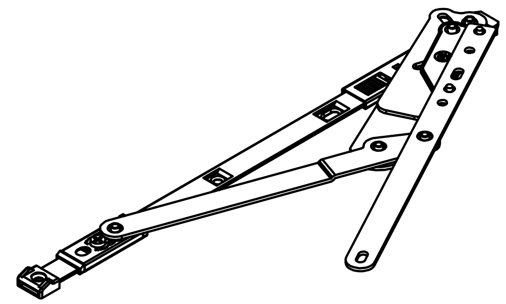
Vent Sizes 450mm or Smaller to be Reduced by 2mm

Jig = ACETME93



The benefits of these hinges are:

- True 90° opening angle
- Achieves minimum fire escape requirement on smaller windows
- Can be moved into easy clean position, with automatic reset on closing
- Superior carrying weight (40kg max)
- The 345mm length replaces the current 305mm & 406mm hinges
- Tested to BS EN1670 and exceeded Grade 5 for ultimate corrosion resistance
- Tested to EN1191 over 25,000 cycles under 40kg.



ACETME13
13mm Stack Egress Hinge

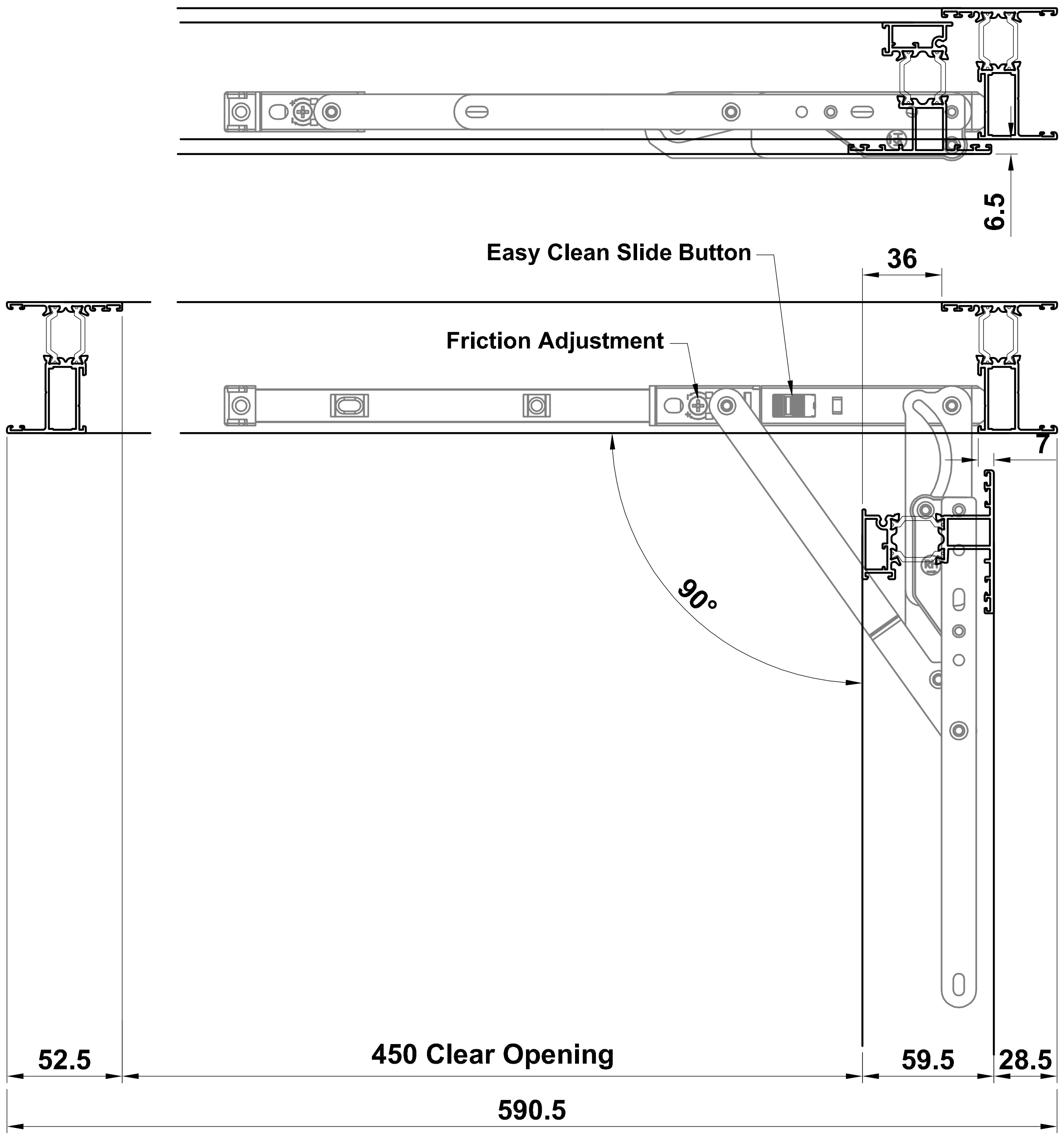
Side Hung	Type of Hinge / Stay	Max. Vent Weight (kgs)	Width Minimum	Width Maximum	Typical Height
ACETME13	Egress	40	400	900	-

Do Not Scale From This Drawing

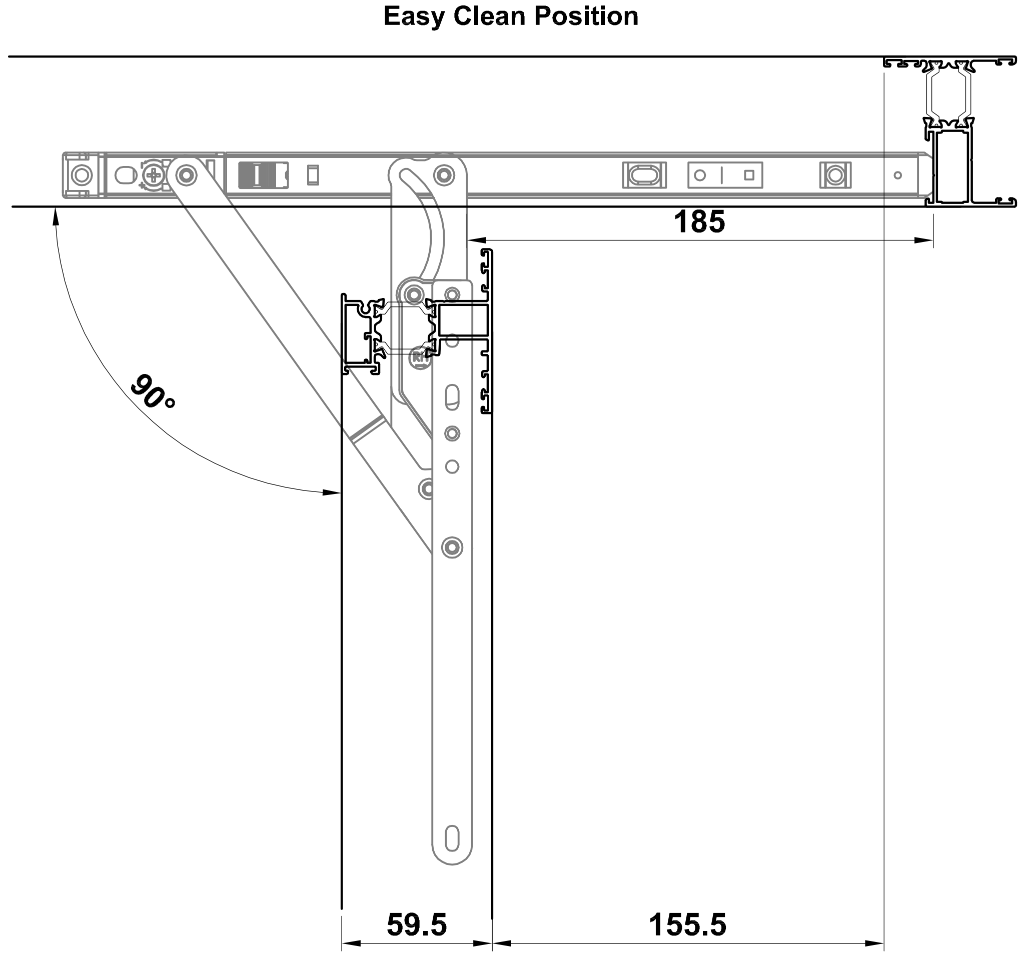
ISSUED : APRIL 2016

Egress Hinge Details

Example Opening Detail

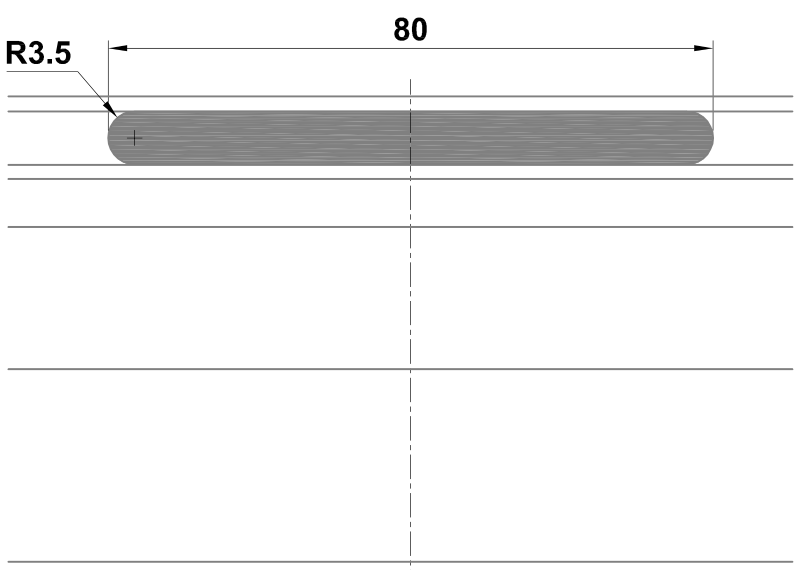


For further information regarding clear openings, please see the Smart Systems' White Paper Document B

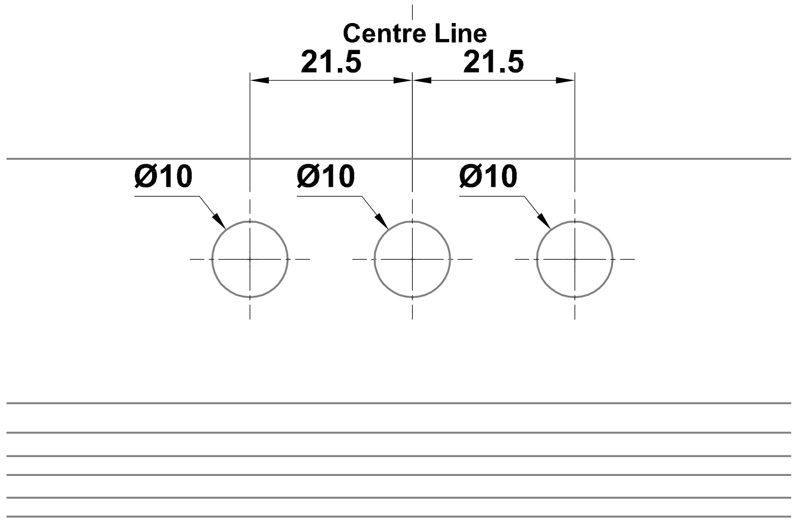


Do Not Scale From This Drawing

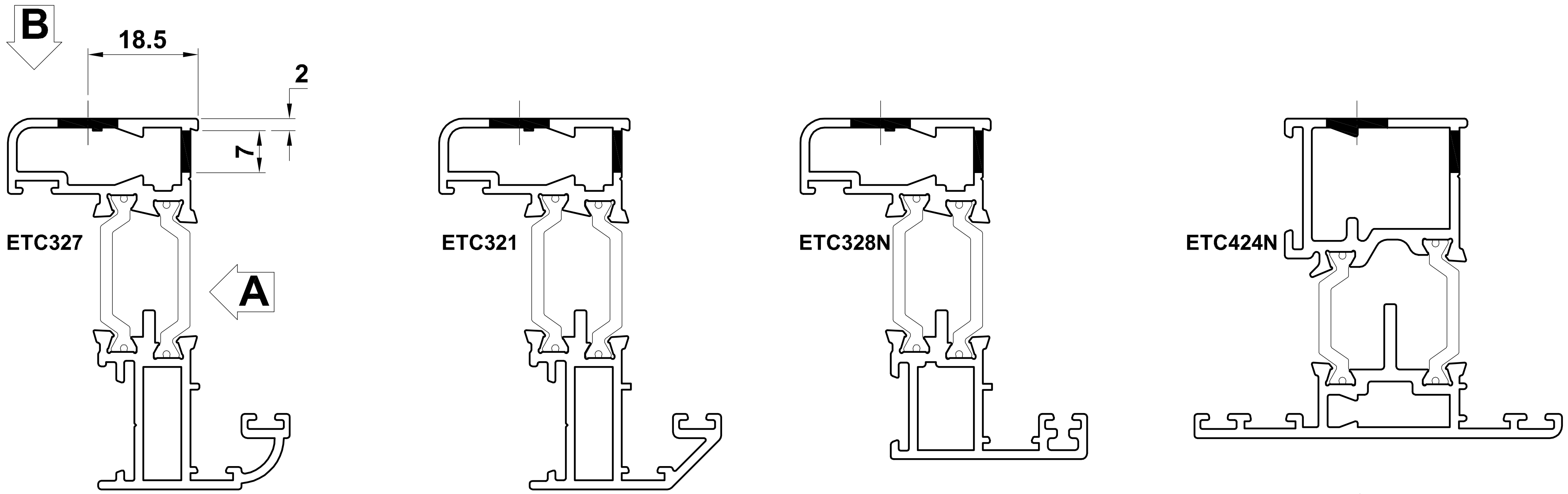
Multi-point Locking Preparation

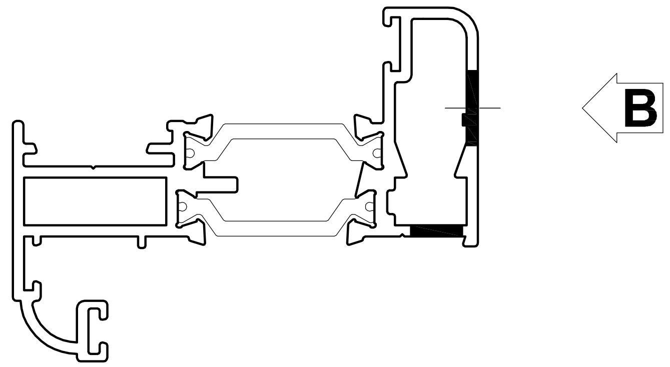


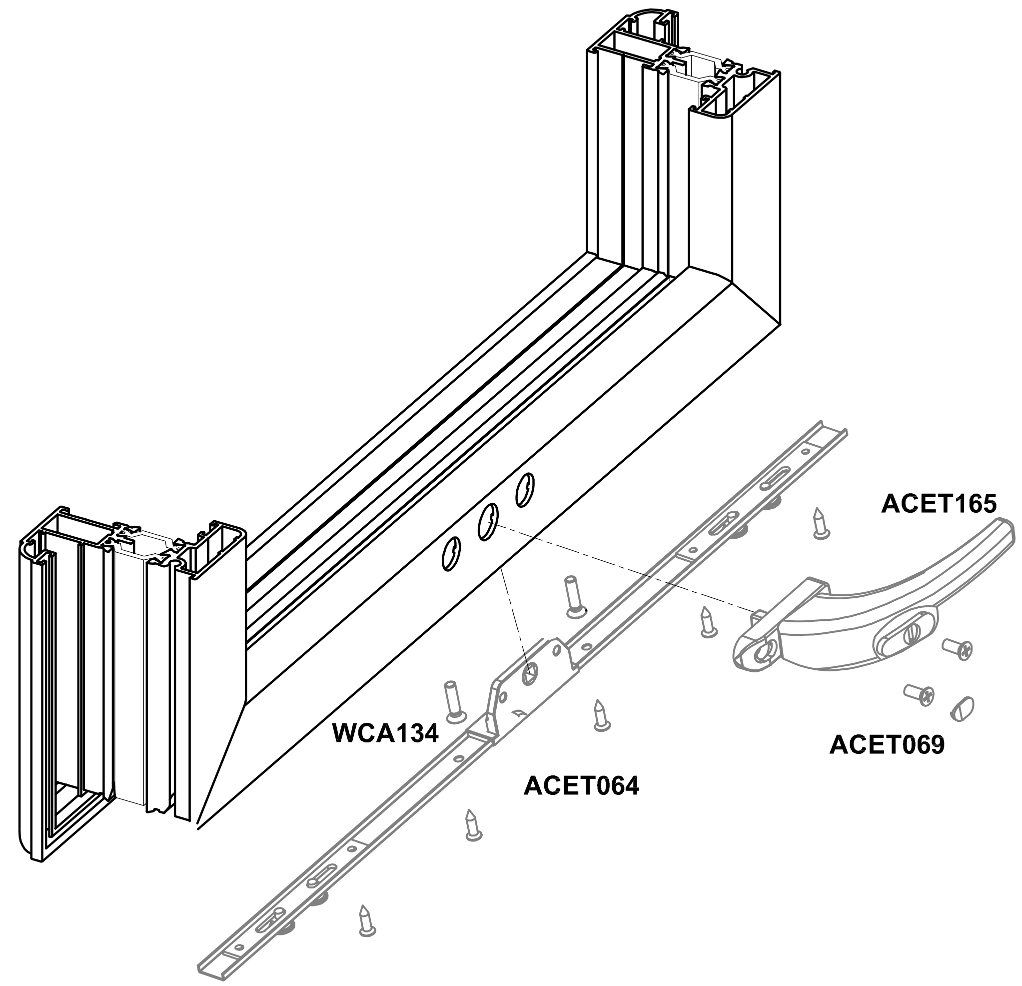
View on Arrow A



View on Arrow B

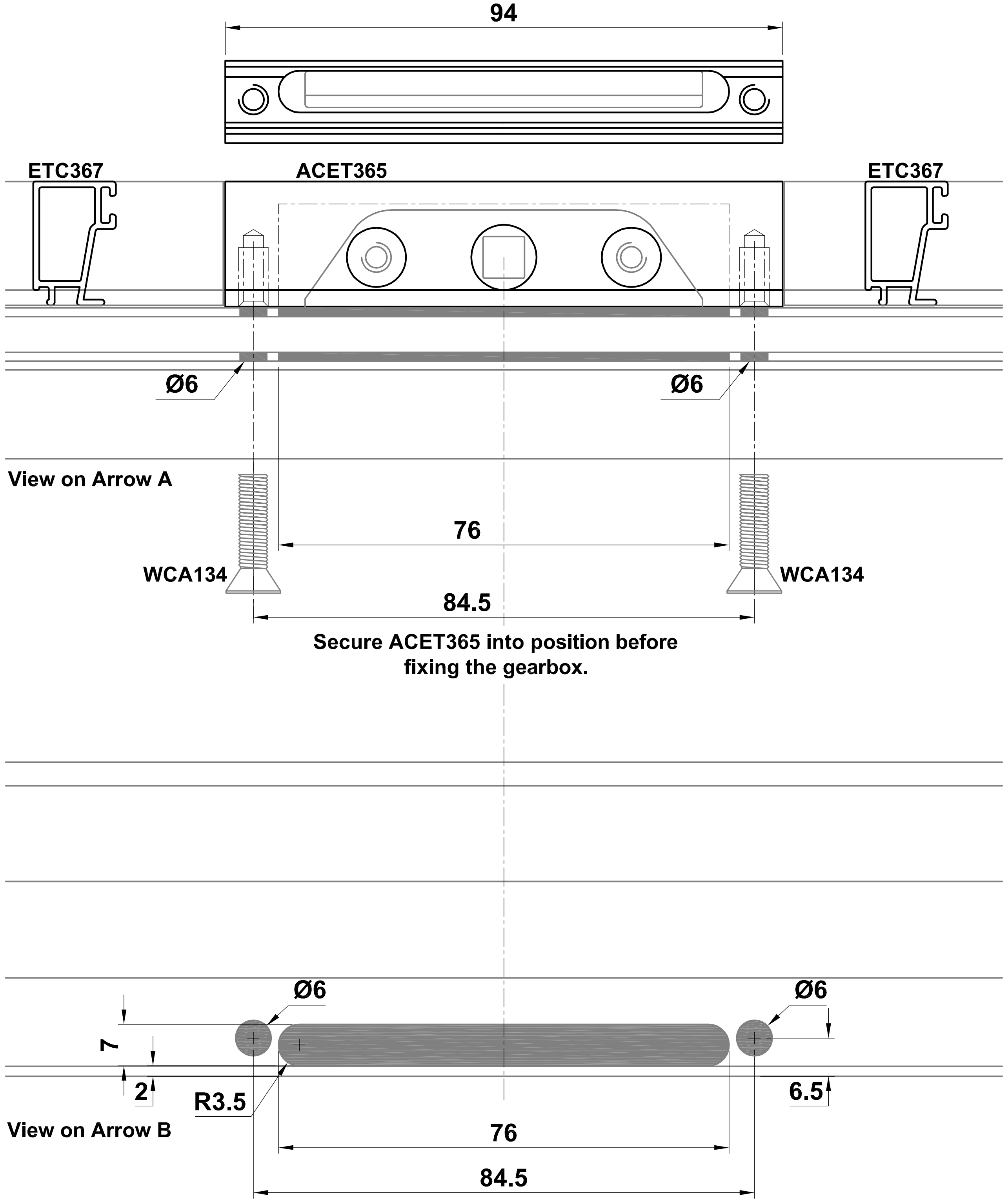


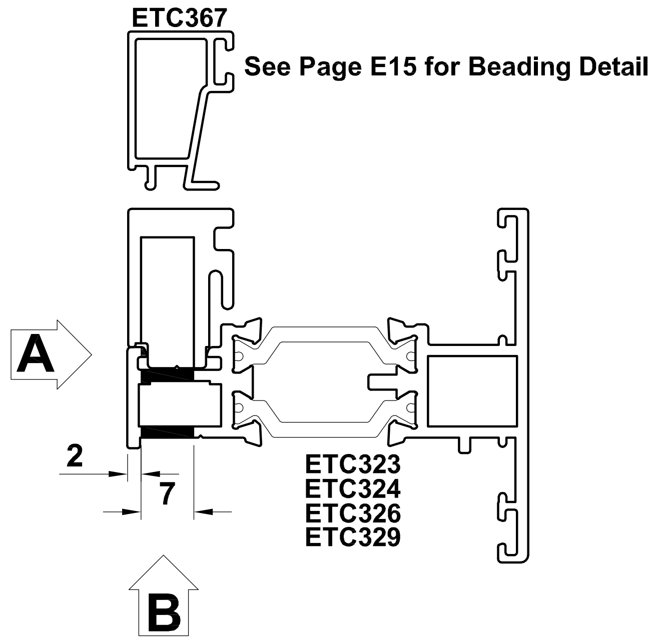


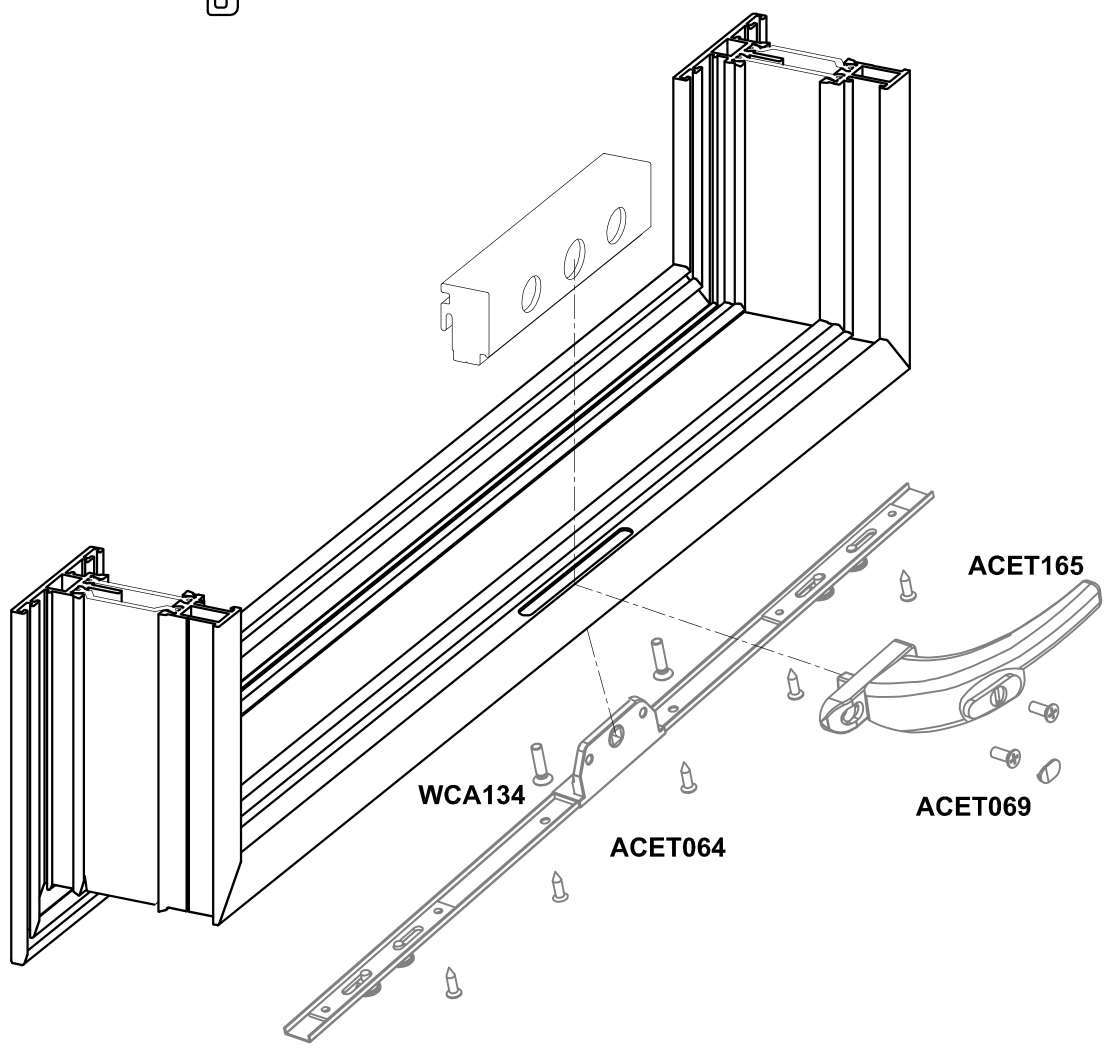


Do Not Scale From This Drawing

Multi-point Locking Preparation

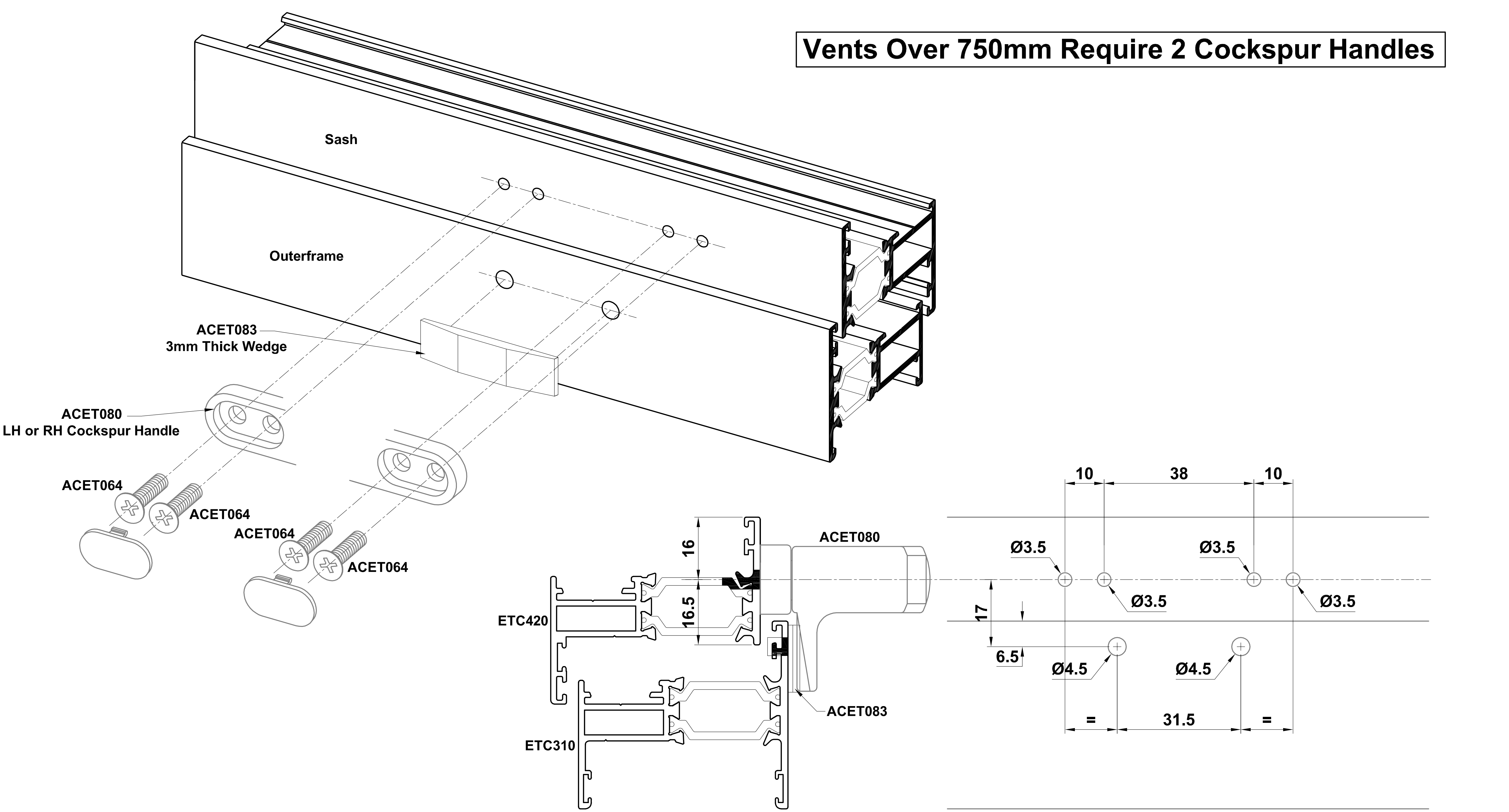






Do Not Scale From This Drawing

Cockspur Handle Preparation



Do Not Scale From This Drawing

ISSUED : APRIL 2016

Glazing Details

24mm Glazing
Externally Glazed

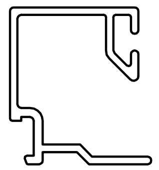
Sections

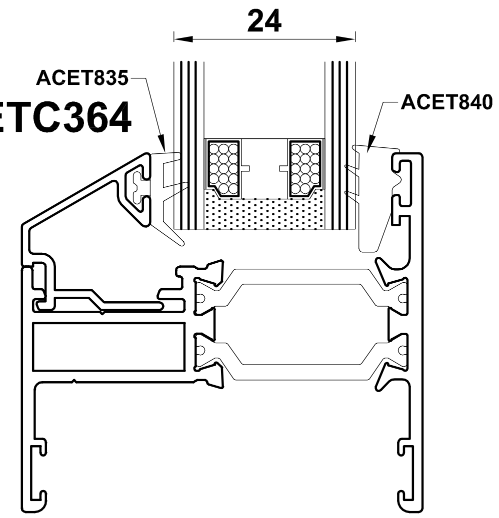
ETC303
ETC304
ETC305
ETC306
ETC308
ETC310
ETC313

ETC321
ETC327
ETC423
ETC343

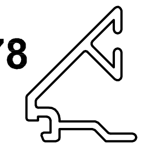
ETC333
ETC335
ETC336

ETC370 or ETC364

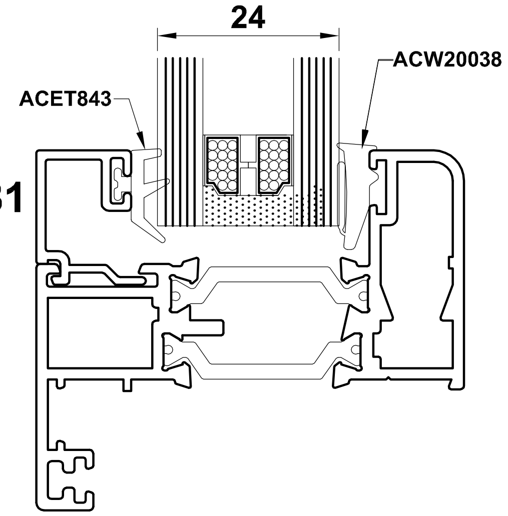




ETC378

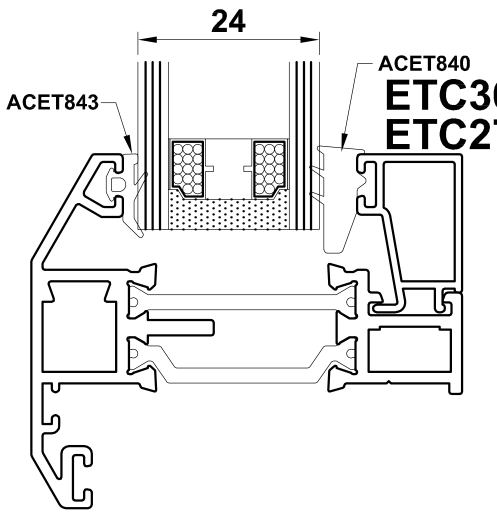


ETC381



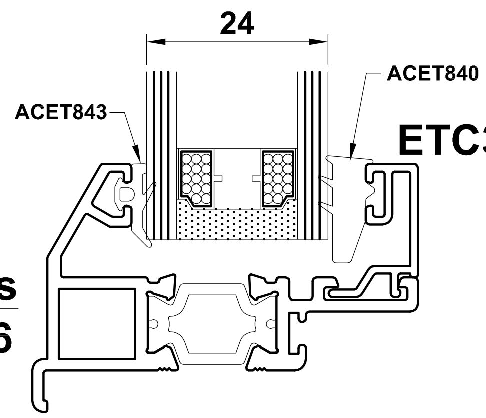
Sections
ETC328N

24mm Glazing
Internally Glazed



ETC367
ETC273

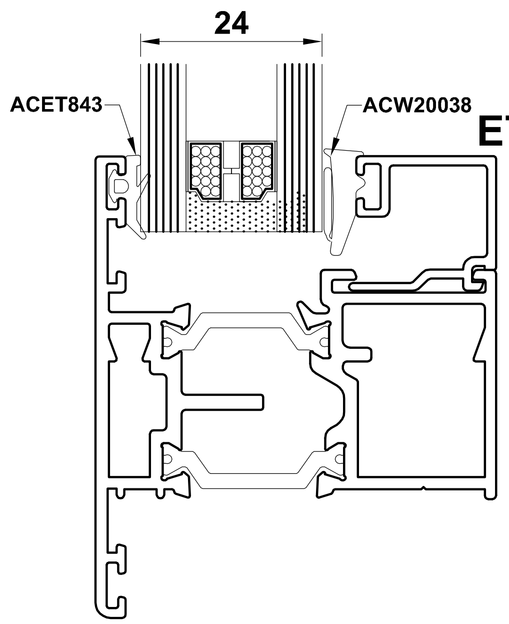
Sections
ETC323



ETC372

Sections
ETC346

Sections
ETC424N
ETD330



ETC362

Do Not Scale From This Drawing

Glazing Details

28mm Glazing Externally Glazed

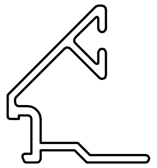
Sections

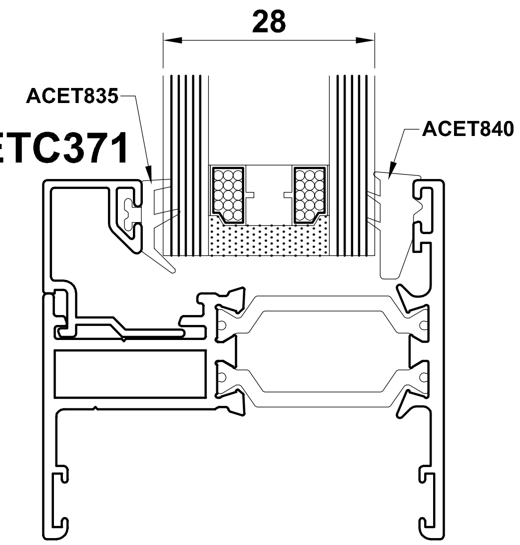
ETC303
ETC304
ETC305
ETC306
ETC308
ETC310
ETC313

ETC321
ETC327
ETC423
ETC343

ETC333
ETC335
ETC336

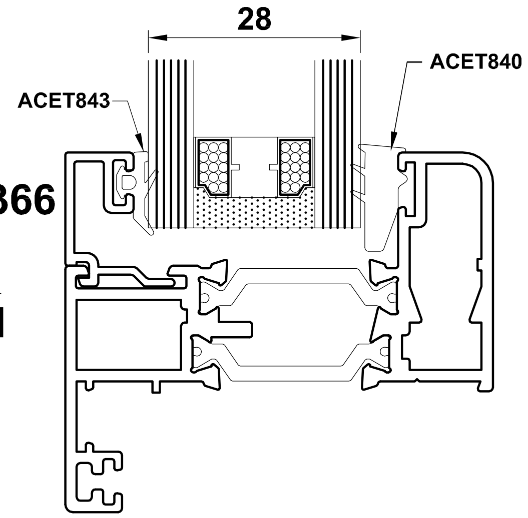
ETC375 or ETC371



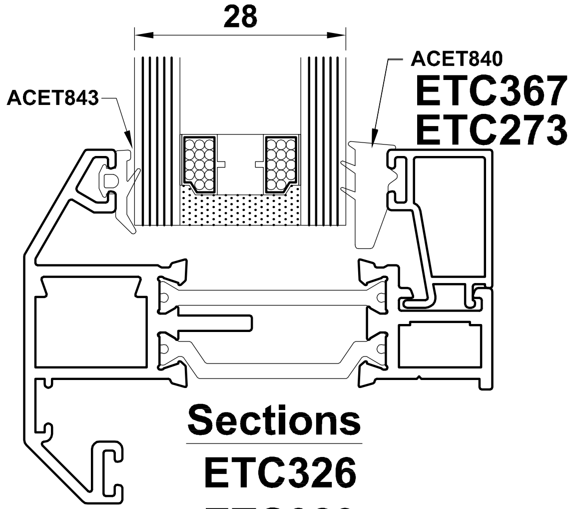


ETC366

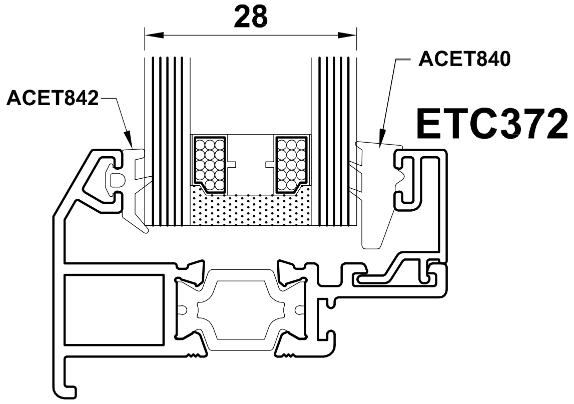
Sections
ETC328N



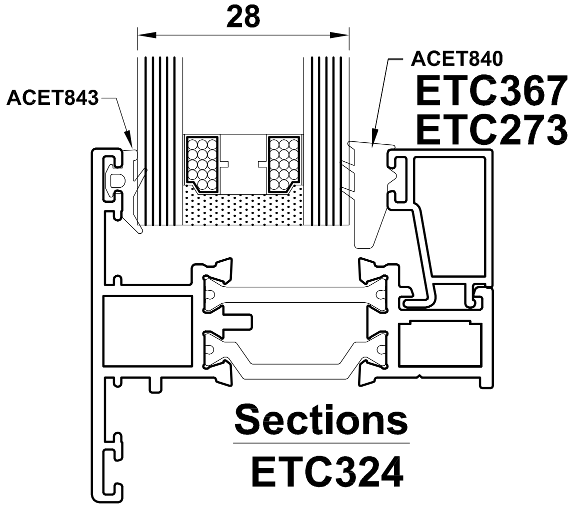
28mm Glazing Internally Glazed



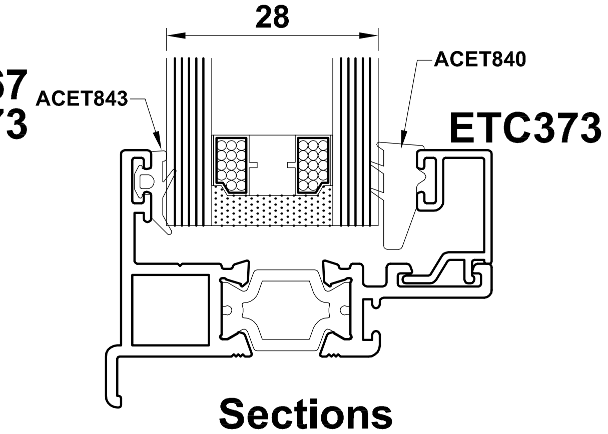
Sections
ETC326
ETC329



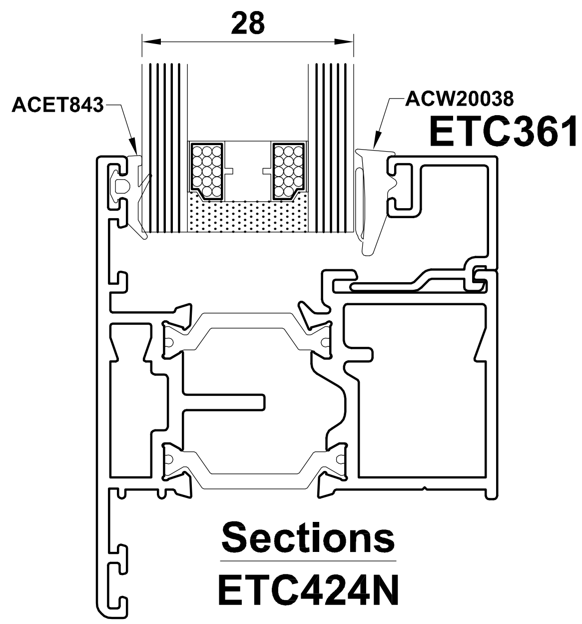
Sections
ETC344



Sections
ETC324



Sections
ETC345



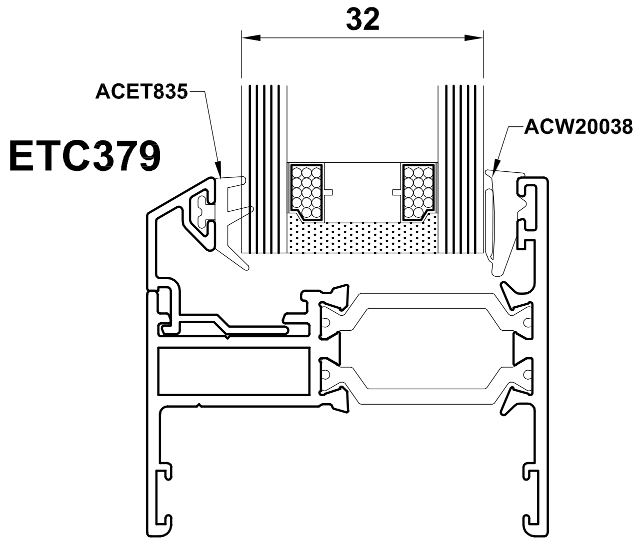
Sections
ETC424N
ETD330

Glazing Details

32mm Glazing
Externally Glazed

Sections

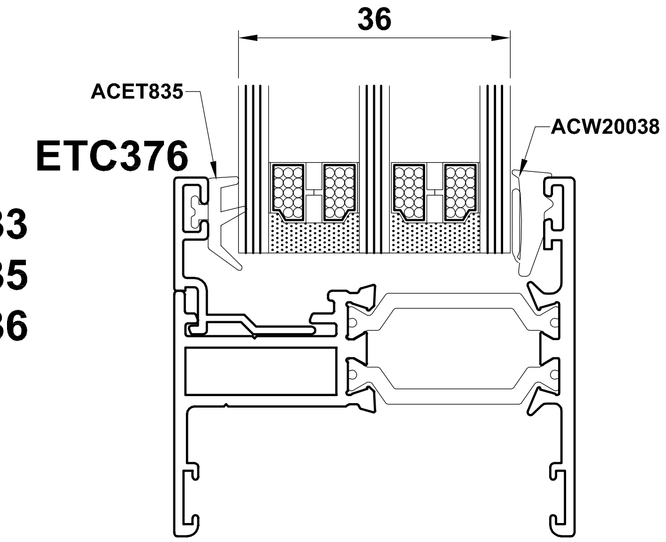
ETC303
ETC304
ETC305
ETC306
ETC308
ETC310
ETC313
ETC321
ETC327
ETC423
ETC343
ETC333
ETC335
ETC336



36mm Glazing
Externally Glazed

Sections

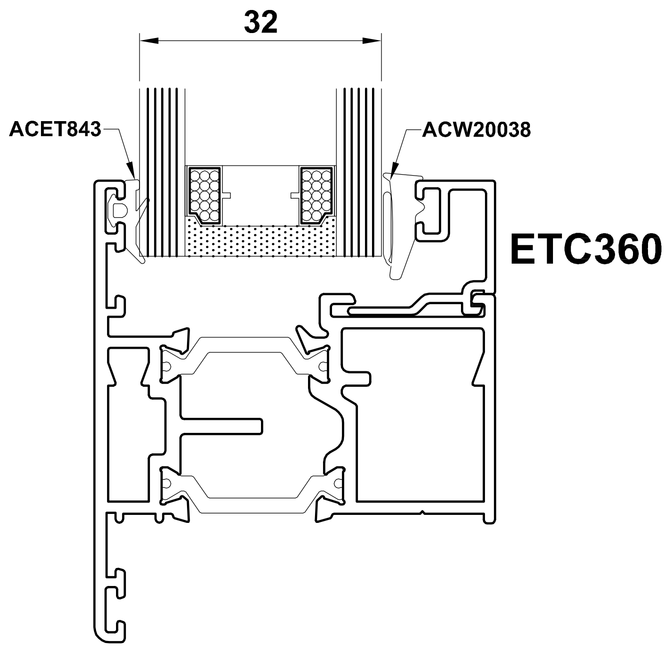
ETC303
ETC304
ETC305
ETC306
ETC308
ETC310
ETC313
ETC321
ETC327
ETC423
ETC343
ETC333
ETC335
ETC336



32mm Glazing
Internally Glazed

Sections

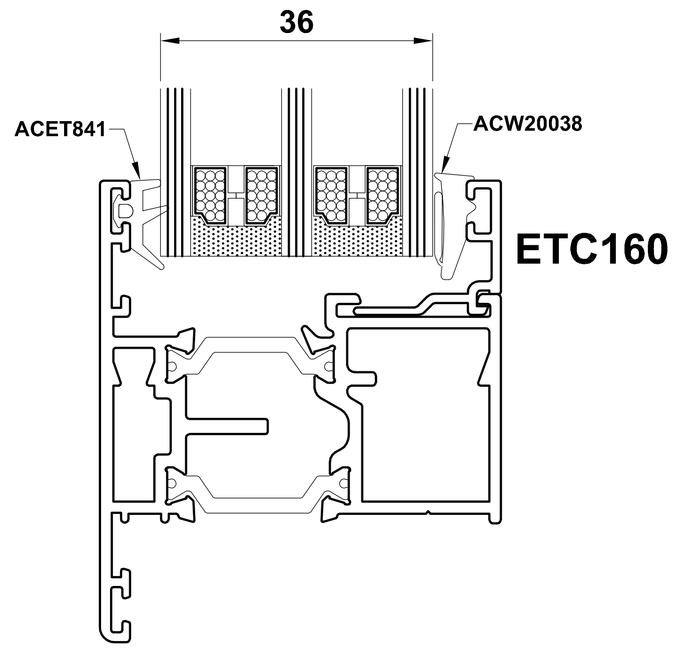
ETC424N
ETD330



36mm Glazing
Internally Glazed

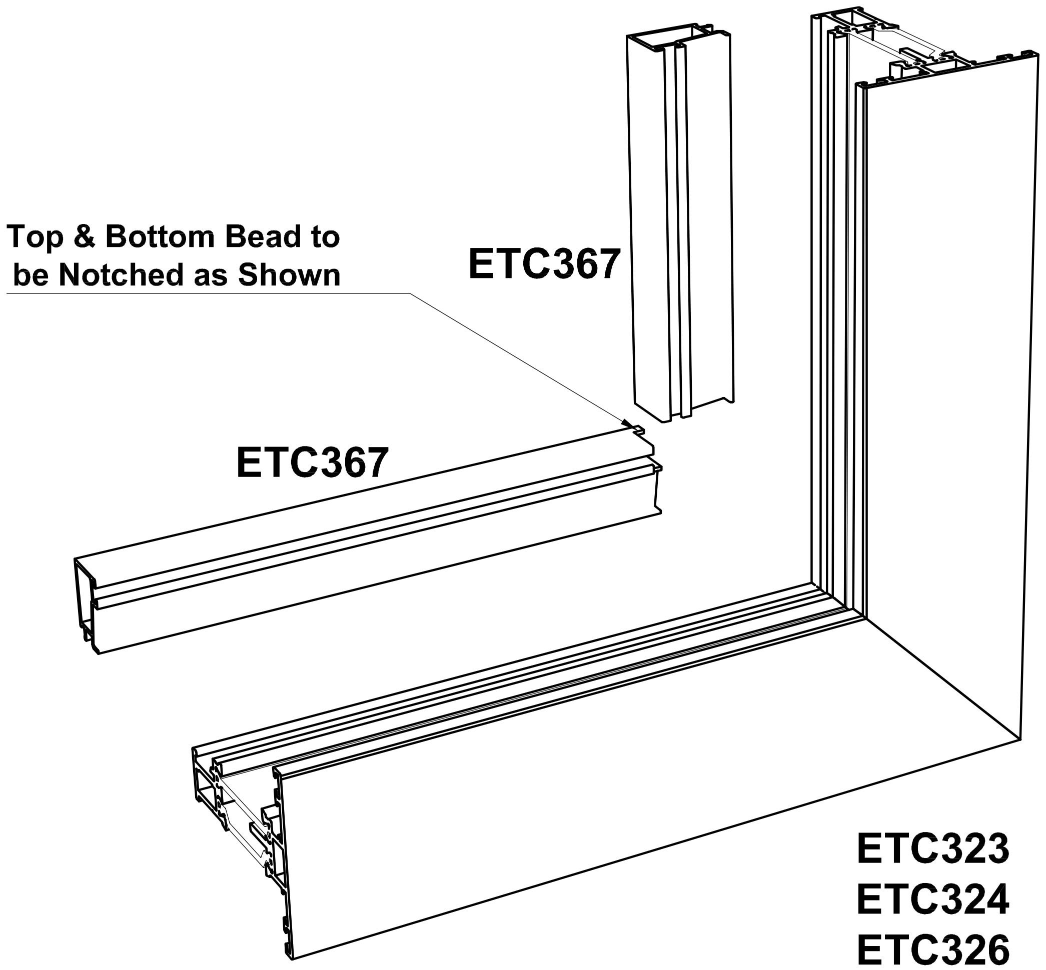
Sections

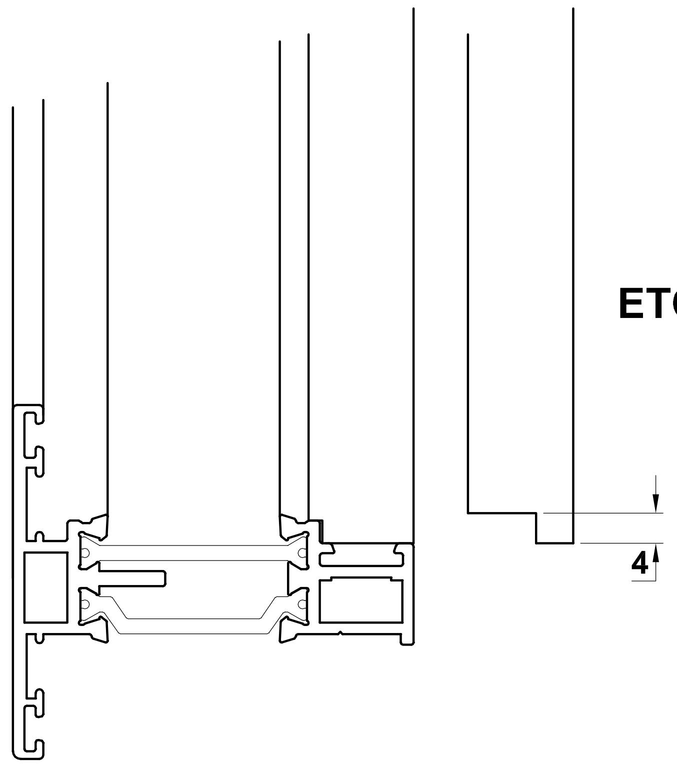
ETC424N
ETD330

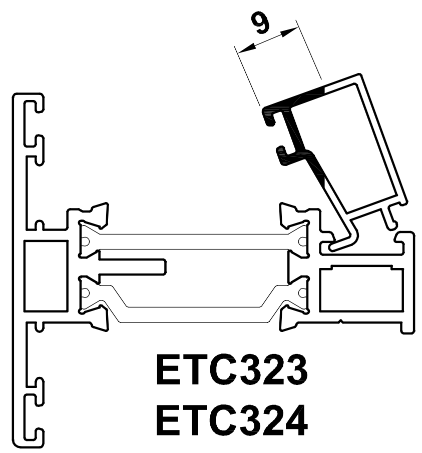


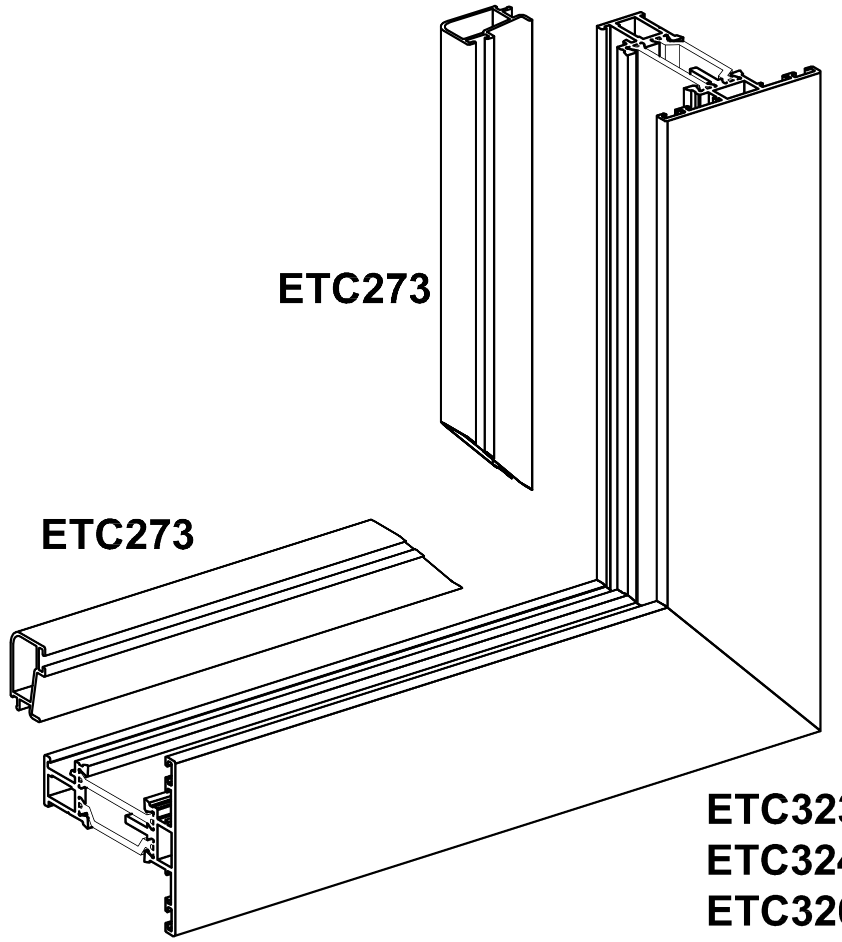
Do Not Scale From This Drawing

ETC367 Notch Detail

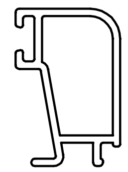








ETC273



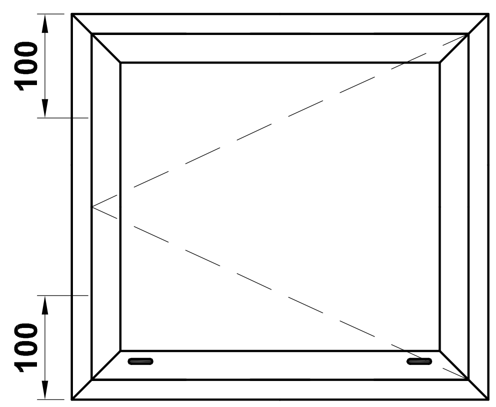
ETC273 should be mitred.
The beads to the handle side must be fitted last, then the handle block ACET367 or ACET368 can be fitted.

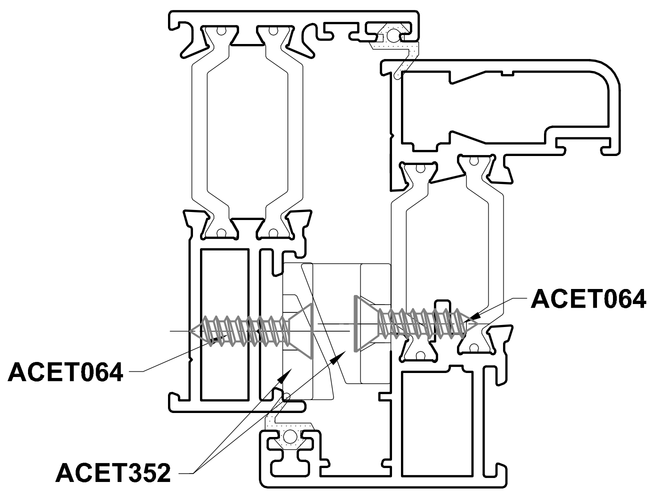
Do Not Scale From This Drawing

ISSUED : APRIL 2016

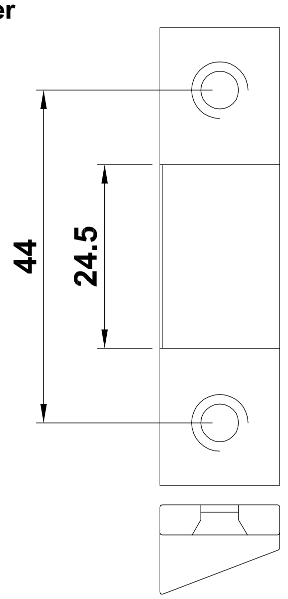
Pull in Blocks/ Hinge Protectors

Pull In Blocks for Easy Clean/Egress Stays

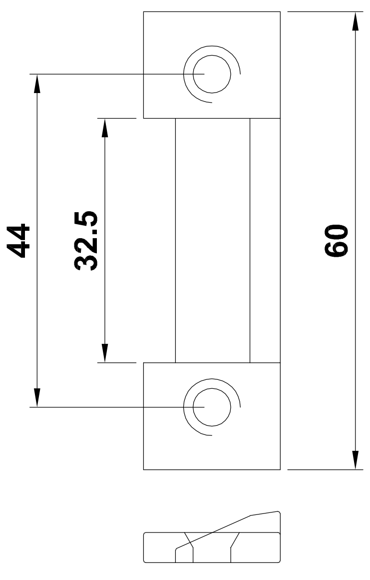




Please Note:
- 2 pairs per opening vent to be fitted to hinged side of window
- Each pair must be fitted with the wedge centre within 100mm of each hinge and in the centre of the window when sash height is greater than 800mm.

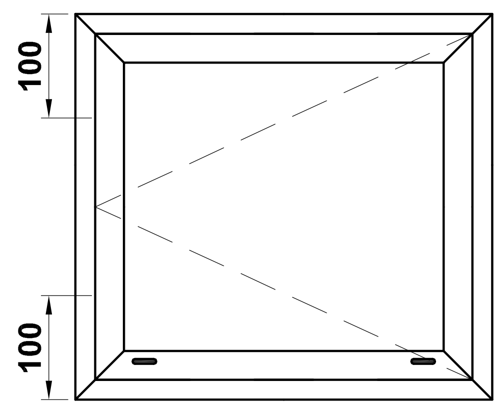


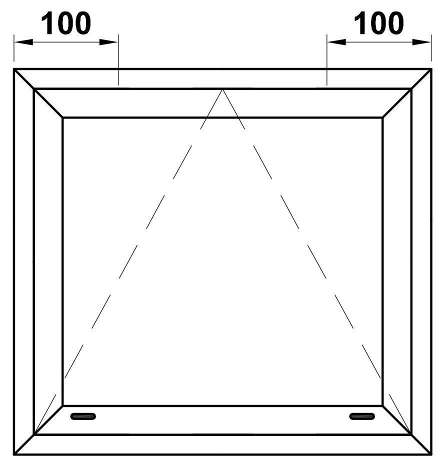
Sash Wedge

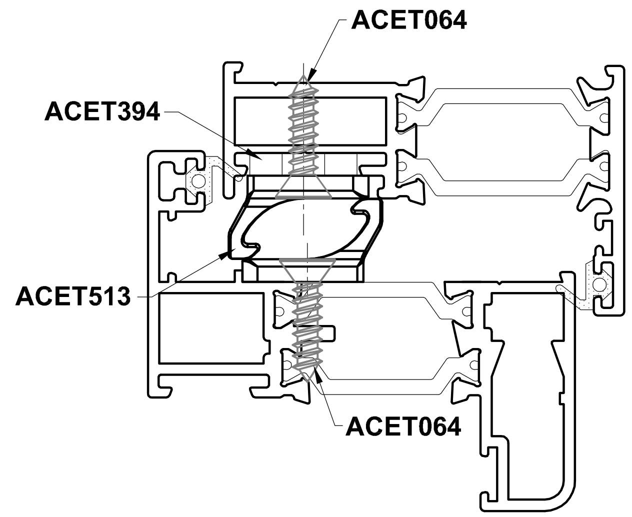


Outer Frame Wedge

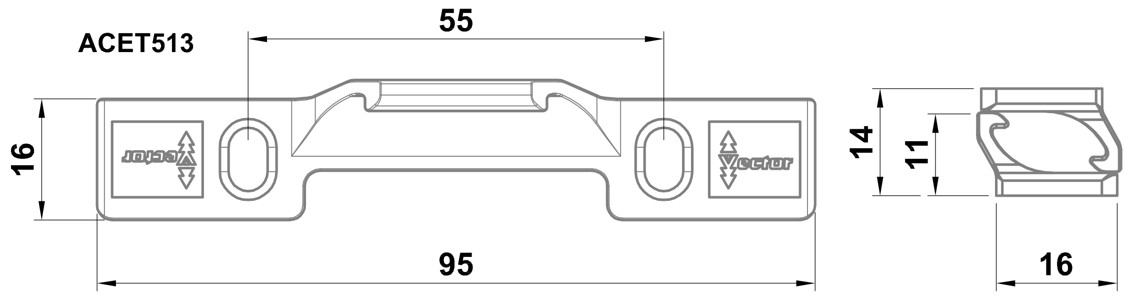
Security Hinge Protectors





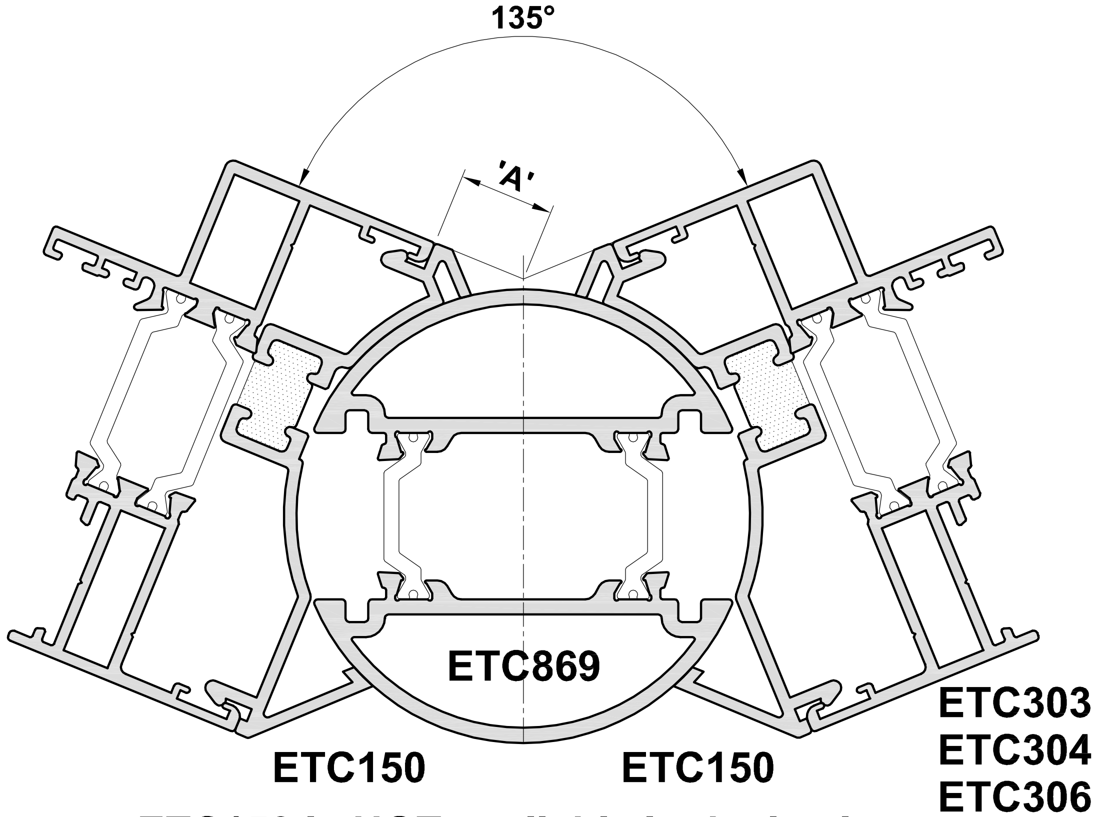


Please Note:
- 2 pairs per opening vent to be fitted to hinged side of window
- Each pair must be fitted with the hook centre within 100mm of each hinge



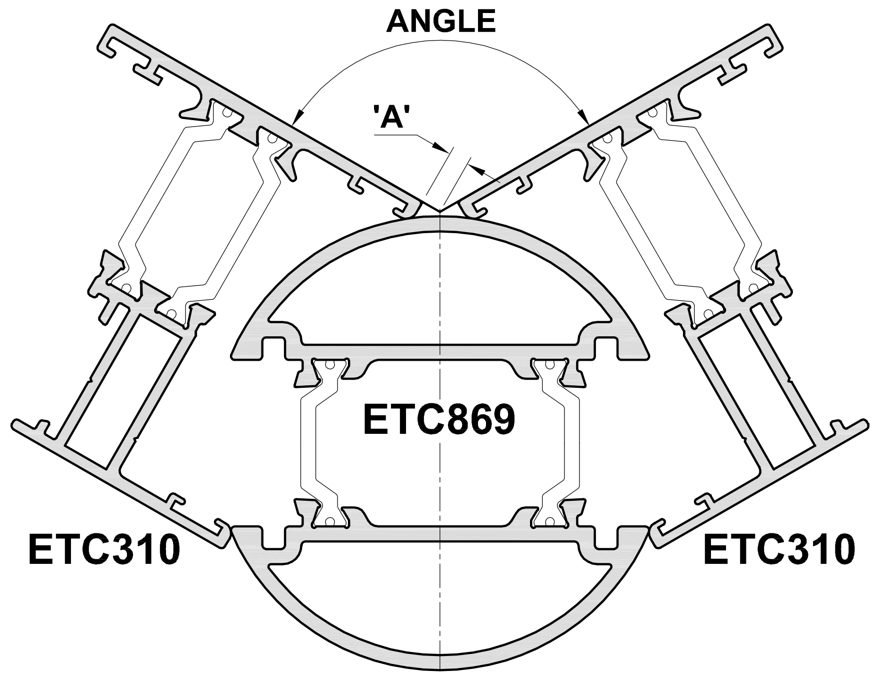
Do Not Scale From This Drawing

Bay Pole Angles / Deductions



ETC150 is NOT available in dual colour

ANGLE	DEDUCTION 'A'
180°	24.5
175°	23.5
170°	22
165°	20.5
160°	19
155°	18
150°	16.5
145°	15
140°	13.5
135°	12



ANGLE	DEDUCTION 'A'
180°	18
175°	17
170°	15.5
165°	14.5
160°	13
155°	12
150°	10.5
145°	9
140°	8
135°	6.5
130°	5.5
125°	4
120°	2.5

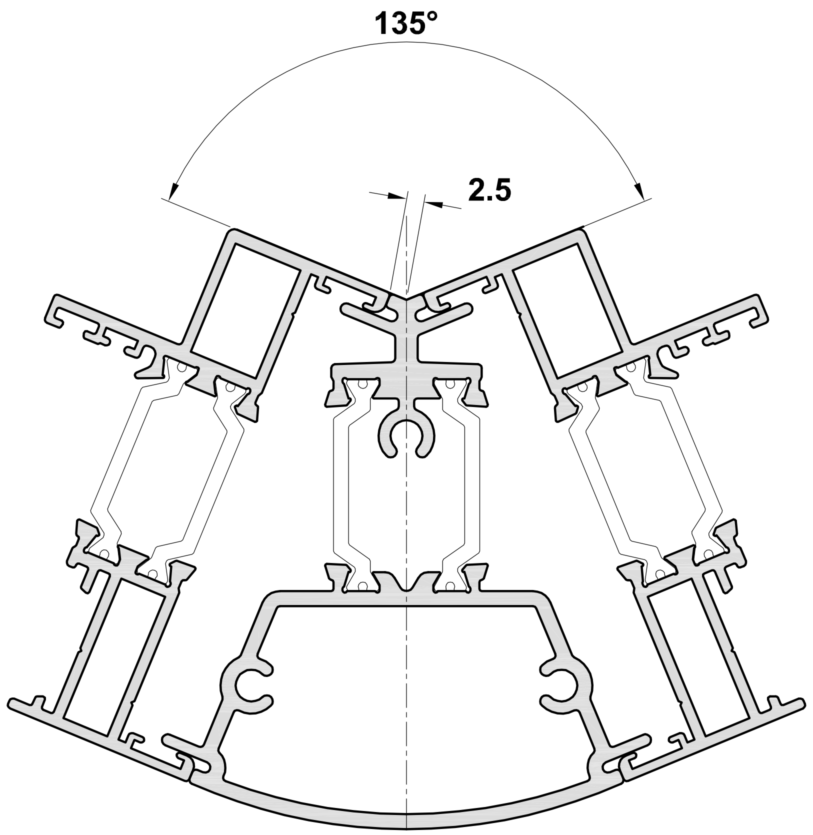
Do Not Scale From This Drawing

ISSUED : APRIL 2016

Fixed Bay Pole Angle / Deduction

Sections

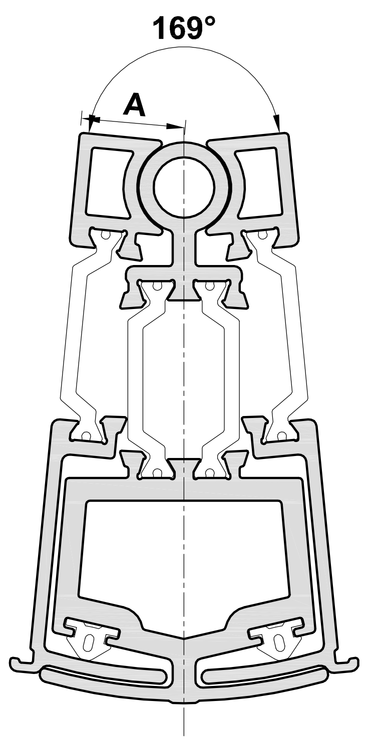
ETC303
ETC304
ETC305
ETC306

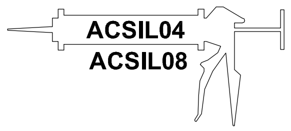


ETC385

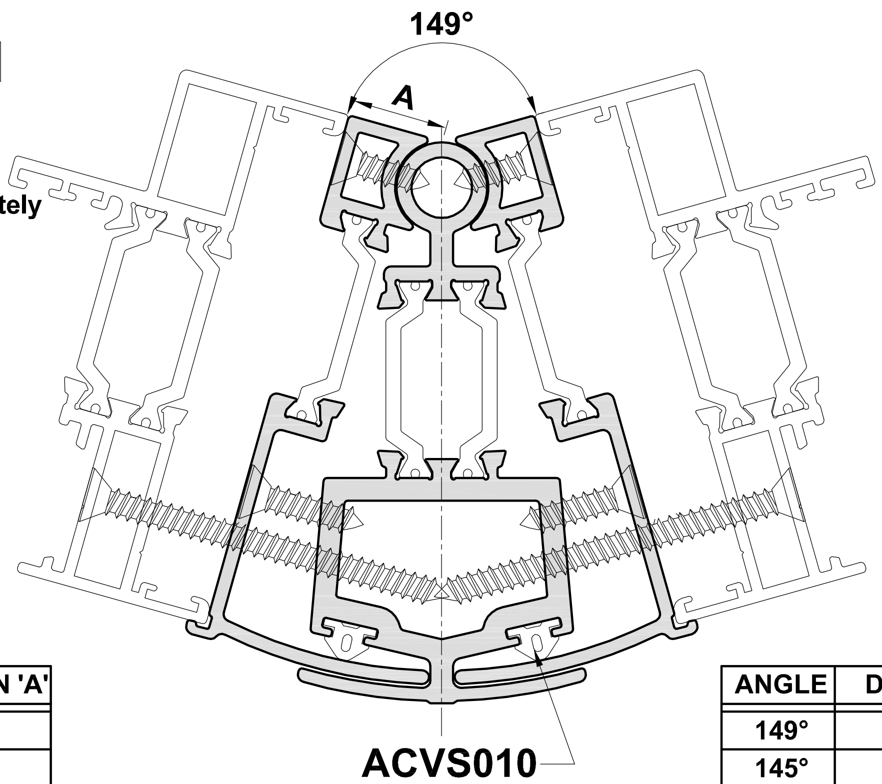
Do Not Scale From This Drawing

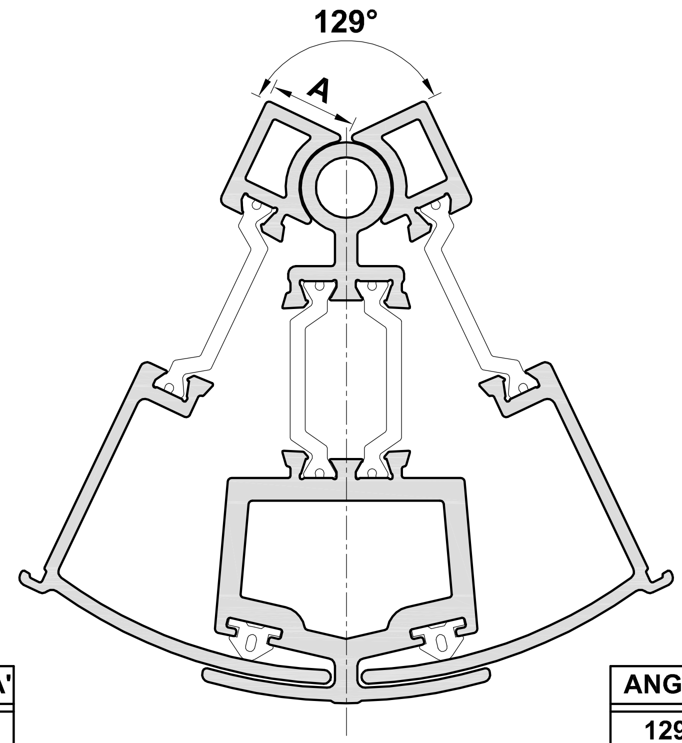
70mm Outer Frame Bay Pole Angles/Deductions





Important Note:
All joints must be adequately sealed using ACSIL04

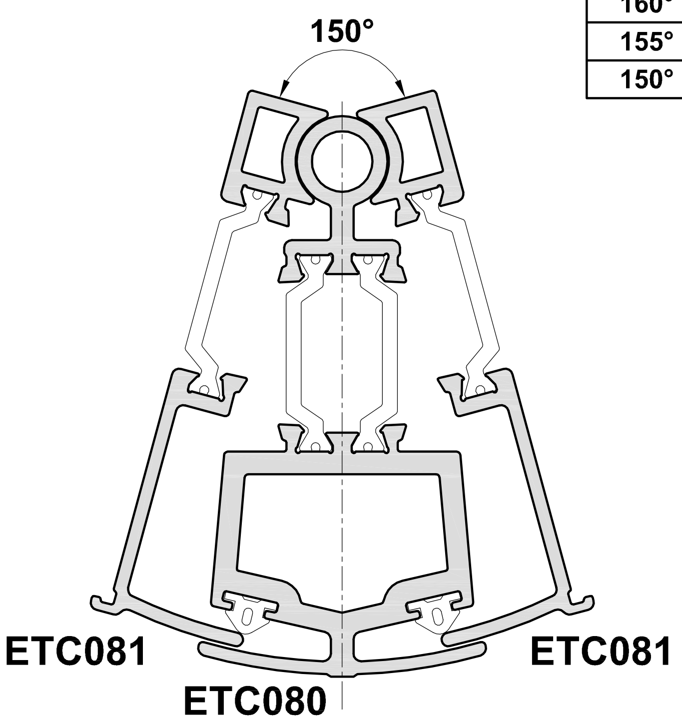


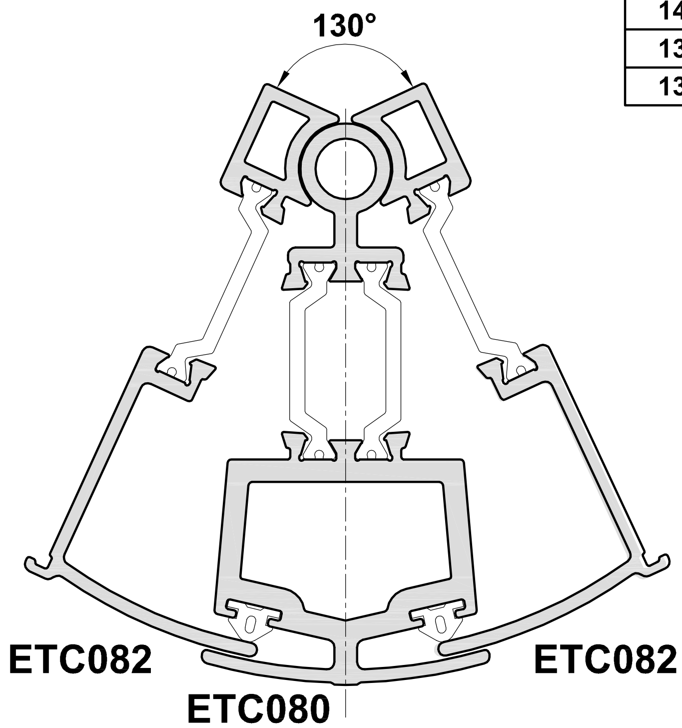


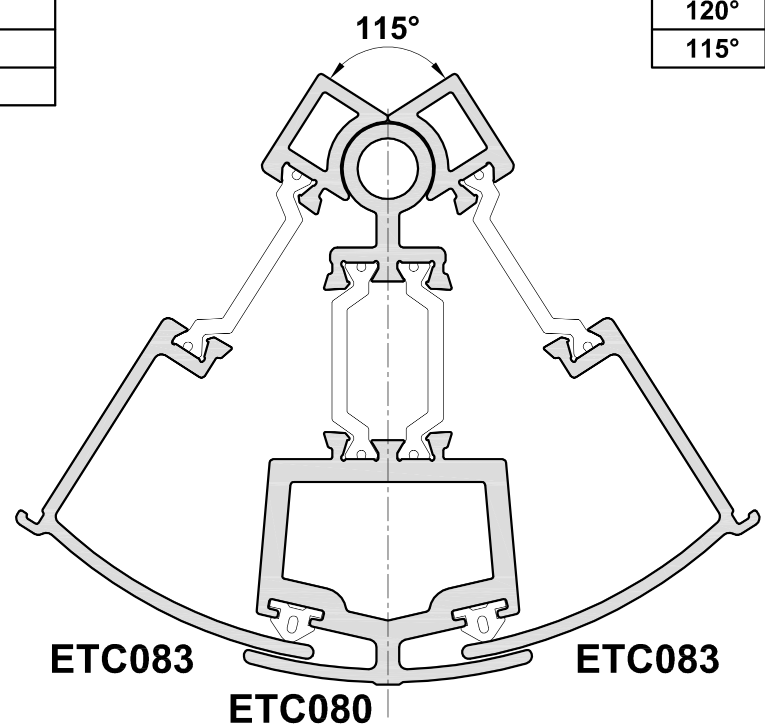
ANGLE	DEDUCTION 'A'
169°	14
165°	13.5
160°	13.6
155°	13
150°	13

ANGLE	DEDUCTION 'A'
149°	12.5
145°	12.5
140°	12
135°	12
130°	11.5

ANGLE	DEDUCTION 'A'
129°	11.5
125°	11.5
120°	11
115°	10.5



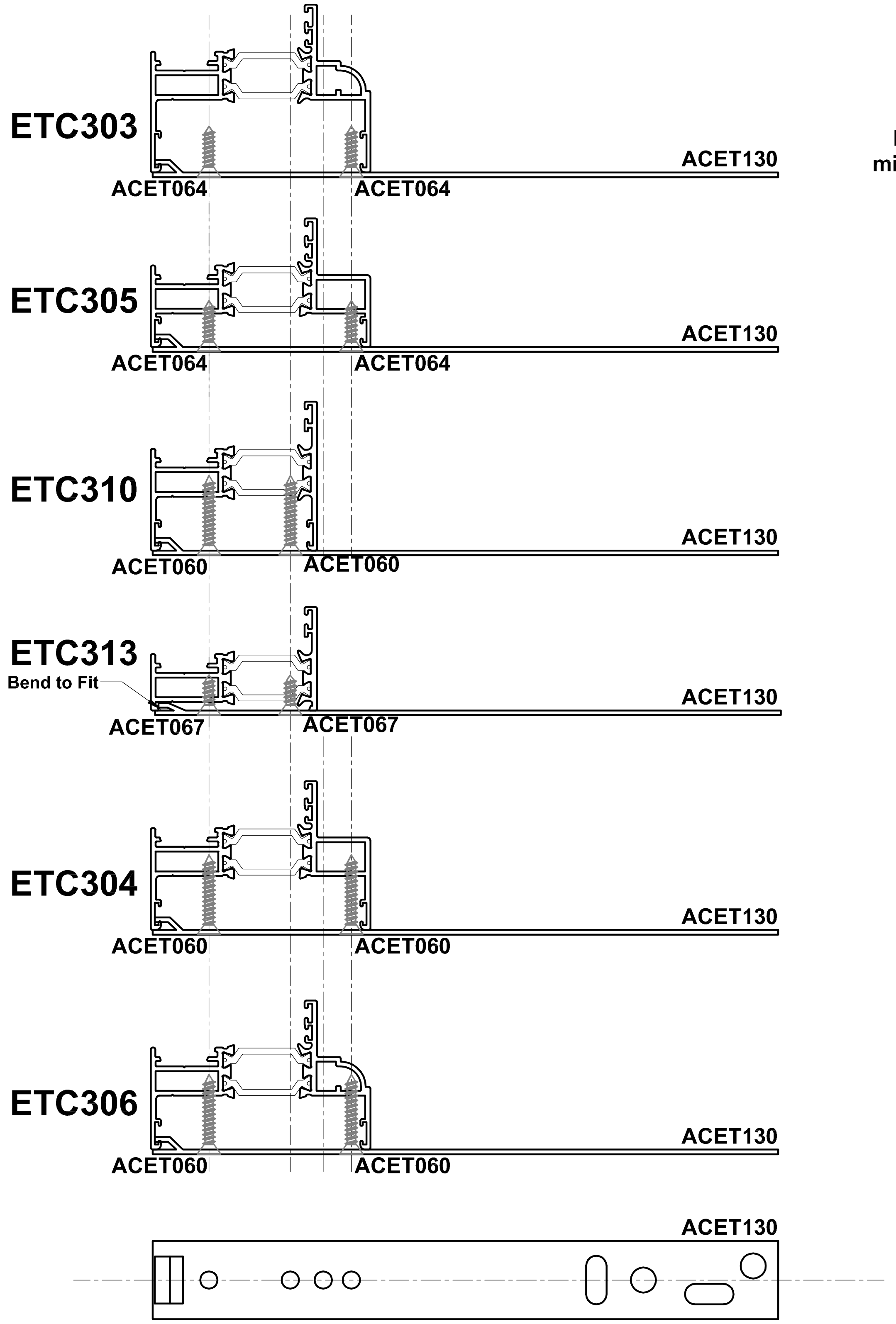




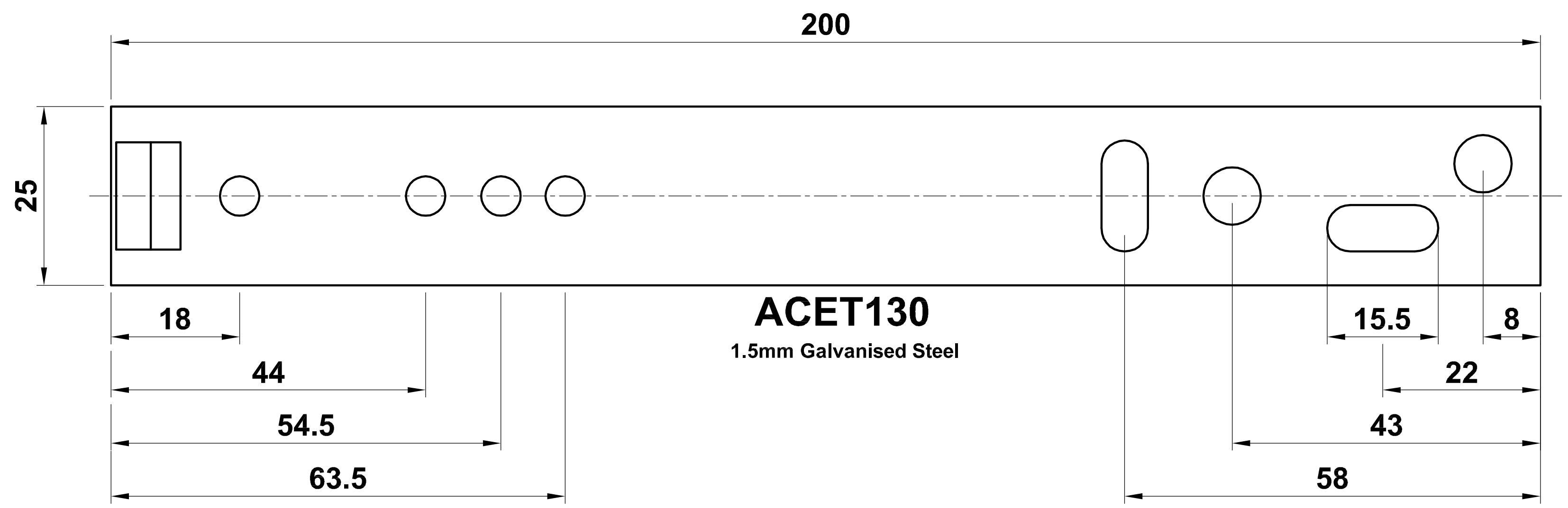
Do Not Scale From This Drawing

ISSUED : APRIL 2016

Fixing Strap Details



NOTE:
Fixing straps should be spaced a minimum of 150mm in from each end & at a maximum of 300mm apart.

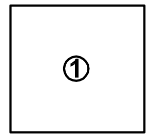
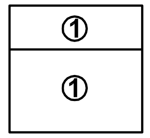
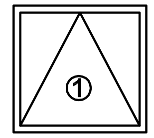
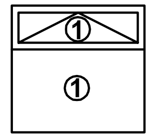
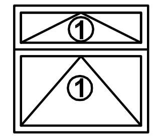
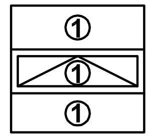
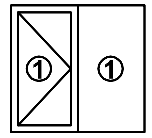
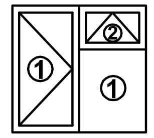
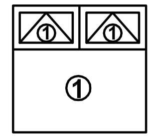
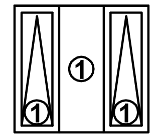
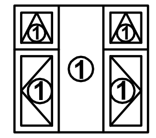
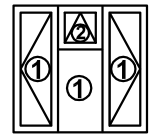
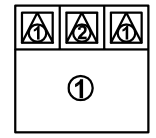
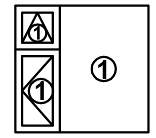
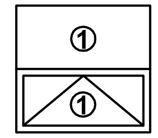


Section F

Sawing Tables

Cutting Information

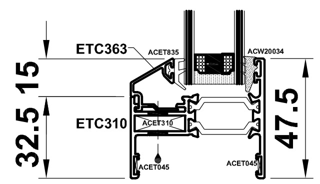
Cutting Information - Standard Stays

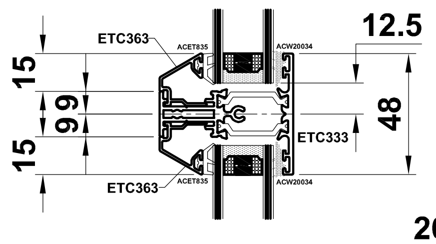
PART DESCRIPTIONS / TYPICAL STYLES																
Outer Frame	Head & Cill	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
	Jambs	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
	Transoms		W - 65		W - 65	W - 65	W - 65		OF to ℄M - 41.5	W - 65		OF to ℄M - 41.5	℄M to ℄M - 18	W - 65	OF to ℄M - 41.5	W - 65
	Mullions							H - 65	H - 65	OF to ℄T - 29.5	H - 65	H - 65	H - 65	OF to ℄T - 29.5	H - 65	
Vent (1)	Horizontal Components			W - 53	W - 53	W - 53	W - 53	OF to ℄M - 29.5	OF to ℄M - 29.5	OF to ℄M - 29.5	OF to ℄M - 29.5	OF to ℄M - 29.5	OF to ℄M - 29.5	OF to ℄M - 29.5	OF to ℄M - 29.5	W - 53
	Vertical Components			H - 53	OF to ℄T - 29.5	OF to ℄T - 29.5	℄T to ℄T - 6	H - 53	H - 53	OF to ℄T - 29.5	H - 53	OF to ℄T - 29.5	H - 53	OF to ℄T - 29.5	OF to ℄T - 29.5	OF to ℄T - 29.5
Vent (2)	Horizontal Components					W - 53			OF to ℄M - 29.5			OF to ℄M - 29.5	℄M to ℄M - 6	℄M to ℄M - 6	OF to ℄M - 29.5	
	Vertical Components					OF to ℄T - 29.5			OF to ℄T - 29.5			OF to ℄T - 29.5	OF to ℄T - 29.5	OF to ℄T - 29.5	OF to ℄T - 29.5	
Vent (1)	Glass Width			W - 124	W - 124	W - 124	W - 124	OF to ℄M - 100.5	OF to ℄M - 100.5	OF to ℄M - 100.5	OF to ℄M - 100.5	OF to ℄M - 100.5	OF to ℄M - 100.5	OF to ℄M - 100.5	OF to ℄M - 100.5	W - 124
	Glass Height			H - 124	OF to ℄T - 100.5	OF to ℄T - 100.5	℄T to ℄T - 81	H - 124	H - 124	OF to ℄T - 100.5	H - 124	OF to ℄T - 100.5	H - 124	OF to ℄T - 100.5	OF to ℄T - 100.5	OF to ℄T - 100.5
Vent (2)	Glass Width					W - 124			OF to ℄M - 100.5			OF to ℄M - 100.5	℄M to ℄M - 81	℄M to ℄M - 81	OF to ℄M - 100.5	
	Glass Height					OF to ℄T - 100.5			OF to ℄T - 100.5			OF to ℄T - 100.5	OF to ℄T - 100.5	OF to ℄T - 100.5	OF to ℄T - 100.5	
Fixed Panel (1)	Glass Width	W - 72	W - 72		W - 72		W - 72	OF to ℄M - 48.5	OF to ℄M - 48.5	W - 72	℄M to ℄M - 28	℄M to ℄M - 28	℄M to ℄M - 28	W - 72	OF to ℄M - 48.5	W - 72
	Glass Height	H - 72	OF to ℄T - 48.5		OF to ℄T - 48.5		OF to ℄T - 48.5	H - 72	OF to ℄T - 48.5	OF to ℄T - 48.5	H - 72	H - 72	OF to ℄T - 48.5	OF to ℄T - 48.5	H - 72	OF to ℄T - 48.5

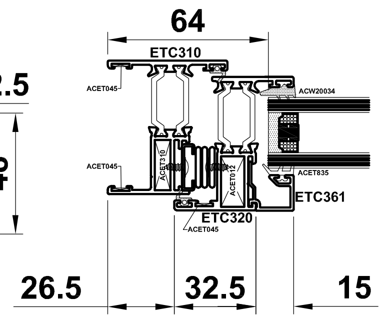
LEGEND:

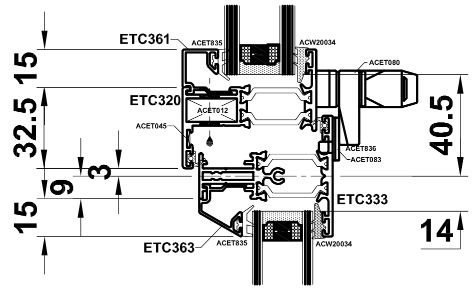
- W = Overall window outer frame width - outside
- H = Overall window outer frame height - outside
- ℄ = Centre line of transom/mullion
- O/F = Extreme edge of outer frame

Sections:		
Outerframe:	ETC310	ETC312
	ETC306	ETC318
	ETC319	
Sash:	ETC321	ETC326
	ETC323	
	ETC324	
Transom/Mullion:	ETC333	









Do Not Scale From This Drawing

Cutting Information - Standard Stays

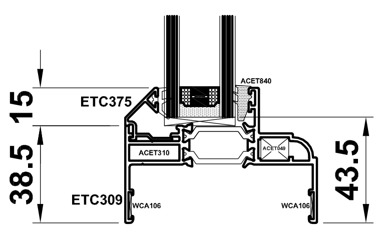
PART DESCRIPTIONS / TYPICAL STYLES		①	① ①	①	① ①	① ①	① ① ①	① ①	① ② ①	① ① ①	① ① ①	① ① ① ① ① ①	① ② ① ① ①	① ② ① ①	① ① ①	① ①
Outer Frame	Head & Cill	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
	Jambs	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
	Transoms		W - 77		W - 77	W - 77	W - 77		OF to ℄M - 47.5	W - 77		OF to ℄M - 47.5	℄M to ℄M - 18	W - 77	OF to ℄M - 47.5	W - 77
	Mullions							H - 77	H - 77	OF to ℄T - 35.5	H - 77	H - 77	H - 77	OF to ℄T - 35.5	H - 77	
Vent (1)	Horizontal Components			W - 65	W - 65	W - 65	W - 65	OF to ℄M - 35.5	OF to ℄M - 35.5	OF to ℄M - 35.5	OF to ℄M - 35.5	OF to ℄M - 35.5	OF to ℄M - 35.5	OF to ℄M - 35.5	OF to ℄M - 35.5	W - 65
	Vertical Components			H - 65	OF to ℄T - 35.5	OF to ℄T - 35.5	℄T to ℄T - 6	H - 65	H - 65	OF to ℄T - 35.5	H - 65	OF to ℄T - 35.5	H - 65	OF to ℄T - 35.5	OF to ℄T - 35.5	OF to ℄T - 35.5
Vent (2)	Horizontal Components					W - 65			OF to ℄M - 35.5			OF to ℄M - 35.5	℄M to ℄M - 6	℄M to ℄M - 6	OF to ℄M - 35.5	
	Vertical Components					OF to ℄T - 35.5			OF to ℄T - 35.5			OF to ℄T - 35.5	OF to ℄T - 35.5	OF to ℄T - 35.5	OF to ℄T - 35.5	
Vent (1)	Glass Width			W - 140	W - 140	W - 140	W - 140	OF to ℄M - 110.5	OF to ℄M - 110.5	OF to ℄M - 110.5	OF to ℄M - 110.5	OF to ℄M - 110.5	OF to ℄M - 110.5	OF to ℄M - 110.5	OF to ℄M - 110.5	W - 140
	Glass Height			H - 140	OF to ℄T - 110.5	OF to ℄T - 110.5	℄T to ℄T - 81	H - 140	H - 140	OF to ℄T - 110.5	H - 140	OF to ℄T - 110.5	H - 140	OF to ℄T - 110.5	OF to ℄T - 110.5	OF to ℄T - 110.5
Vent (2)	Glass Width					W - 140			OF to ℄M - 110.5			OF to ℄M - 110.5	℄M to ℄M - 81	℄M to ℄M - 81	OF to ℄M - 110.5	
	Glass Height					OF to ℄T - 110.5			OF to ℄T - 110.5			OF to ℄T - 110.5	OF to ℄T - 110.5	OF to ℄T - 110.5	OF to ℄T - 110.5	
Fixed Panel (1)	Glass Width	W - 87	W - 87		W - 87		W - 87	OF to ℄M - 57.5	OF to ℄M - 57.5	W - 87	℄M to ℄M - 28	℄M to ℄M - 28	℄M to ℄M - 28	W - 87	OF to ℄M - 57.5	W - 87
	Glass Height	H - 87	OF to ℄T - 57.5		OF to ℄T - 57.5		OF to ℄T - 57.5	H - 87	OF to ℄T - 57.5	OF to ℄T - 57.5	H - 87	H - 87	OF to ℄T - 57.5	OF to ℄T - 57.5	H - 87	OF to ℄T - 57.5

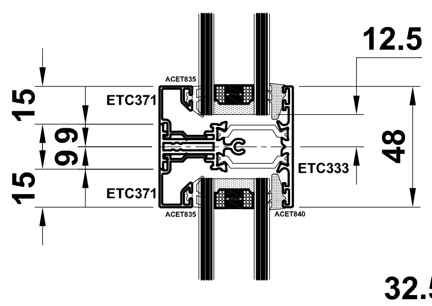
LEGEND:

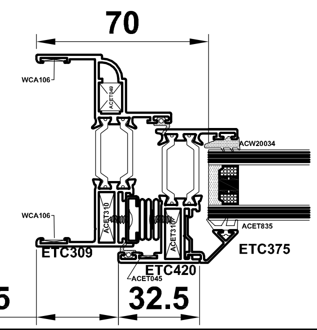
- W = Overall window outer frame width - outside
- H = Overall window outer frame height - outside
- ℄ = Centre line of transom/mullion
- O/F = Extreme edge of outer frame

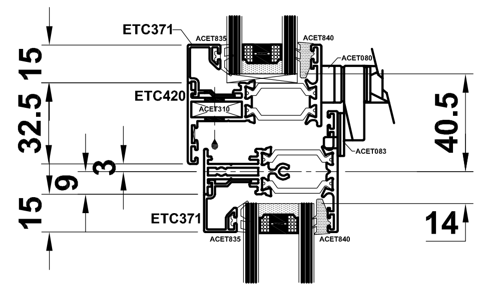
Sections:

Outerframe:	ETC310	ETC312
	ETC306	ETC318
	ETC319	
Sash:	ETC321	ETC326
	ETC323	
	ETC324	
Transom/Mullion:	ETC333	









Do Not Scale From This Drawing