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Updates

DATE	PAGE	DESCRIPTION
JUNE 2024	ALL PAGES	SPLIT MANUAL
AUGUST 2025	Various Pages	Heritage Door
	Various Pages	Foam Insert To ETD447
	E20 & E77	Surfaced Fixed Closure
	E23 & E83	Electric Strike
	E76, E86 & E87	Panic Exit Device
	E22 & E82	Single Door Shootbolt Detail
	E42 & E115	Glazing Packer Placement

Specification

GENERAL DESCRIPTION

The Alitherm 400 Door system described in this manual is suitable for domestic or commercial applications as replacement doors for existing buildings, and for installation into new buildings.

The Alitherm 400 Door provides the option of mechanical joints using punch tooling on outer frame and sash.

Stepped & Flush designs are available as:

- Single Open In Doors
- Double Open In Doors
- Single Open Out Doors
- Double Open Out Doors

Alitherm 400 door features Quick-Glaze Beads with integrated gasket, providing a fast and efficient glazing process. Non-integrated gasket options are also available.

PROFILE SPECIFICATION

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

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

- 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.

Specification

GENERAL MANUFACTURING

Outer and sash 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 outer frame corner and sash joints can be made using mechanically fixed corner cleats by punching the corners using the relevant punch tooling shown in section E of this manual. The ends of transoms and mullions are profiled to fit the frame and fixed using self-tapping screws with a small joint sealant.

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

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

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

Size Limitations

Door Type	Min Leaf Width (mm)	Max Leaf Width (mm)	Max Leaf Height (mm)	Overall Width (mm)	Overall Height (mm)
Single Door Open In	600	1100	2400	1164	2464
Double Door Open In	600	1100	2400	2276	2464
Single Door Open Out	600	1100	2400	1164	2464
Double Door Open Out	600	1100	2400	2276	2464

Important Notes:

1. Max leaf weight 130kg
2. Size limitations are based on current profiles using full frame

RECOMMENDED HERITAGE DOOR LIMITATIONS

Door Sashes:

Maximum Width: 1100mm

Minimum Width: 600mm

Maximum Height: 2100mm

Minimum Height: 1000mm (leaving 3 locking points)

Maximum Weight: 60kg

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

Specification

DOOR DRAINAGE

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

In order to get maximum performance and weather resistance, it is recommended that drips are used above all open-out door leaves and at the bottom of all open-in doors. It is also recommended to use at the bottom of open-out doors where the low ramp threshold are used.

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 assembly the centre line position of any transoms/mullions or mid-rail 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 either drilling or punching, the corners ready for the cleat machine screws. Then, coating the cut faces to be joined with ACSIL04. Into the mitred corner insert the ACSIL013 and the required corner cleats. The two mitred ends are then brought together and screwed. ACSIL04 ensures a permanent joint and guards against the ingress of moisture and joint movement. After screwing the corner joint, special care should be taken to ensure any excess ACSIL04 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 ACSIL04. After fixing, special care should be taken to ensure any excess is cleared from painted surfaces.

Specification

SASH

Corners are formed by either drilling or punching, the corners ready for the cleat machine screws. Then, coating the cut faces to be joined with ACSIL04. Into the mitred corner insert the ACSIL013 and the required corner cleats. The two mitred ends are then brought together and screwed. ACSIL04 ensures a permanent joint and guards against the ingress of moisture and joint movement. After screwing the corner joint, special care should be taken to ensure any excess ACSIL04 is removed from painted surfaces

Or the mitred ends can brought together and crimped. The small gap sealer ensures a permanent joint and guards against the ingress of moisture and joint movement. Care should be taken to ensure any excess sealer is removed from the surfaces.

INTERNALLY BEADED ADAPTOR FRAME

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

Corners are formed by coating the cut faces to be joined with a suitable small gap sealer. Into the mitred corner insert the ACSIL013 and a corner cleat and the required corner chevrons. ACSIL04 ensures a permanent joint and guards against the ingress of moisture and joint movements. Care should be taken to ensure any excess sealer is removed from painted surfaces.

Alitherm 400 Door Weather Performance (BS6375-1)

Low thresholds have not been weather tested as they are unlikely to exceed UK exposure category 800 X shown below:

See pages A08 & A09.

Alitherm 400 Door Security (PAS 24)

Alitherm 400 door standard parts are able to achieve PAS24 requirement.

Alitherm 400 Door U Values

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

Specification

GLAZING

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

INTERNALLY BEADED GLAZING

Glazing beads are fitted to openings by cutting the horizontal beads square to head and cill of each sash and reverse adaptor area. Vertical beads are cut square at both ends. Insert bottom beads and two setting blocks to ensure glass will be centralized in vertical dimension of opening (glazing blocks must be full width of cavity to fully support glass or sealed unit), then insert top bead followed by side beads. Finish glazing by insertion of internal gaskets all round.

Specification

Kitemark™ Certificate

Aluminium Alloy Residential Door System (Slam lock/Key wind/Lift lever)

BS 6375:2016 / PAS 24:2016 - General and enhanced security performance requirements for door assemblies.

Profiles:

Outer Frame: ETD402, 404, 410, 412, 490, 491, 492, 493, 495, 496, 497, 499

Sash: ETD4202, 4203, 4204, 4205, 422, 424, 446, 448

Mid-rail: ETD430, 4301, 4302, 432

Hardware:

Locking: ACUL272, ACUL273, ACUL280, ACUL281, ACUL282, ACUL283, ACUL360, ACUL361, ACUL362, ACUL363, ACUL263, ACUL374, ACUL375, ACUL377, ACUL378, ACUL380, ACUL381, ACUL382, ACUL383, ACUL390, ACDV737, ACDV738, ACDV742, ACDV744, ACPD884, ACPD846, ACPD847, ACPD848, ACPD849

Hinges: ACUL250, ACUL260

Hinge Protectors: ACET252 (not required for PAS24)

Handle: All handles listed in manual

Cylinder: ACCY3560NKS3, ACCY6035NKS3, ACCY3560NKTTS3, ACCY6035NKTTS3

Size Limitations And Performance Characteristics

Door Type	Leaf Width (mm) - Maximum	Leaf Height (mm) - Maximum	Air Permeability Classification	Watertightness Classification	Resistance To Wind Classification	Exposure Category As Given In Table 1 Of BS6375-1:2009
Double Leaf Open In Full Frame	1100	2400	Class 2 Air	Class 3A Water	C3	1200
Double Leaf Open Out Full Frame	1100	2400	Class 2 Air	Class 9A Water	A3	1200
Double Leaf Open In Low Rebate Threshold	1100	2400	Class 3 Air	Class 3A Water	A3	1200
Double Leaf Open Out Low Rebate Threshold	1100	2400	Class 2 Air	Class 4A Water	C3	1200

Specification

Kitemark™ Certificate

Aluminium Alloy Residential Door System (Lift Lever with cams)

BS 6375:2016 / PAS 24:2016 - General and enhanced security performance requirements for door assemblies.

Profiles:

Outer Frame: ETD402, 404, 410, 412, 490, 491, 492, 493, 495, 496, 497, 499

Sash: ETD4202, 4203, 4204, 4205, 422, 424, 445, 447

Mid-rail: ETD430, 4301, 4302, 432

Hardware:

Locking: ACUL267, ACUL268, ACUL276, ACUL277, ACUL278, ACUL279

Hinges: ACUL250, ACUL260

Hinge Protectors: ACET252 (not required for PAS24)

Handle: All handles listed in manual

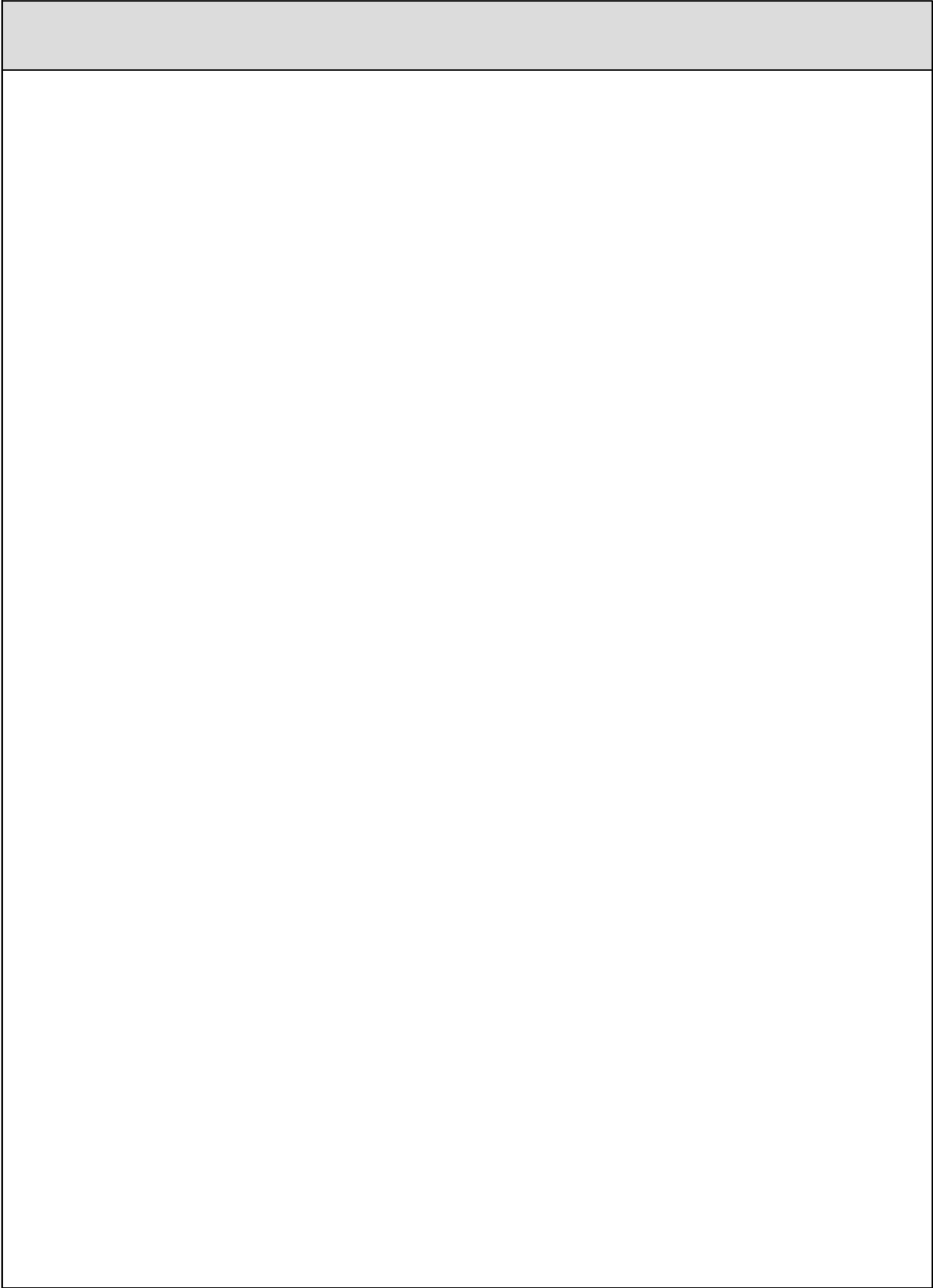
Cylinder: ACCY3560NKS3, ACCY6035NKS3, ACCY3560NKTT3, ACCY6035NKTT3

Size Limitations And Performance Characteristics

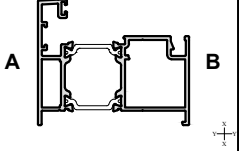
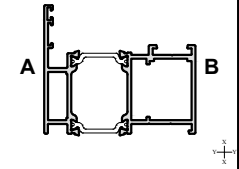
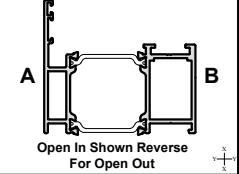
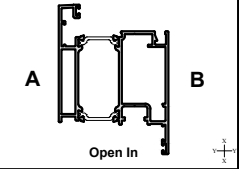
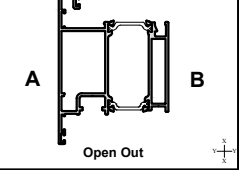
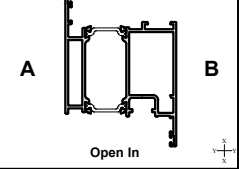
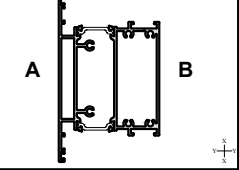
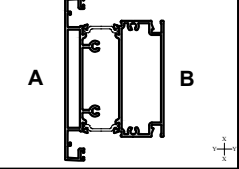
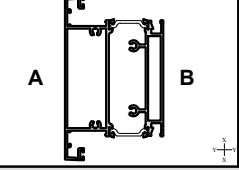
Door Type	Leaf Width (mm) - Maximum	Leaf Height (mm) - Maximum	Air Permeability Classification	Watertightness Classification	Resistance To Wind Classification	Exposure Category As Given In Table 1 Of BS6375-1:2009
Double Leaf Open In Full Frame	1100	2400	Class 4 Air	Class 3A Water	C3	AB2400
Double Leaf Open Out Full Frame	1100	2400	Class 4 Air	Class E 1050 Water	C3	AE2400
Double Leaf Open In Low Rebate Threshold	NOT TESTED					
Double Leaf Open Out Low Rebate Threshold						

Alitherm 400 Stepped Door

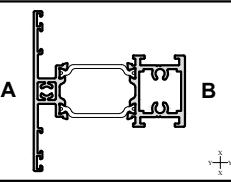
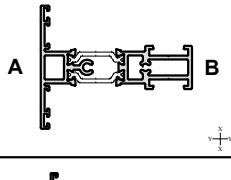
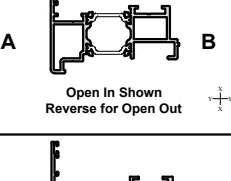
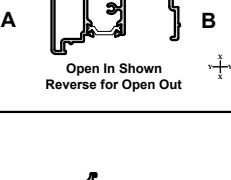
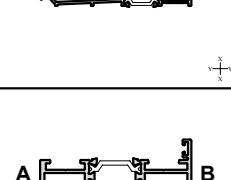
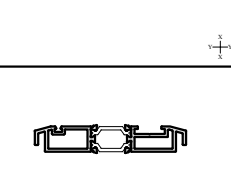
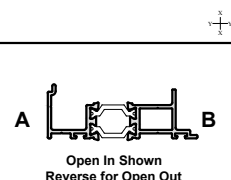
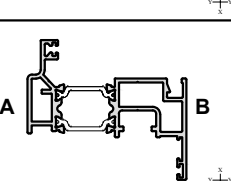
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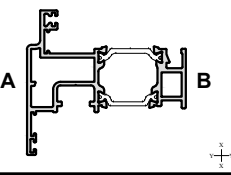
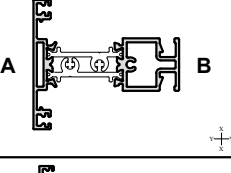
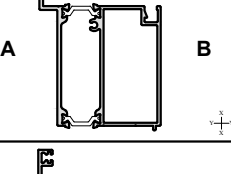
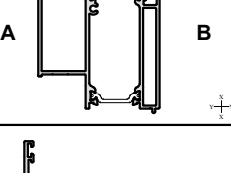
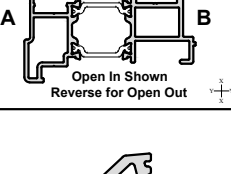
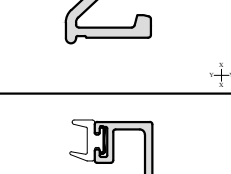
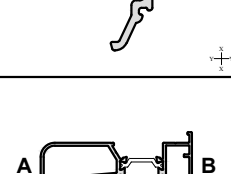
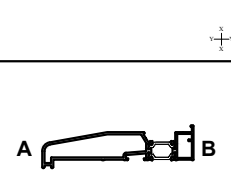
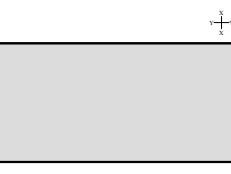
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ETD402		A18	435	144.8	34.66 ---- 8.75	12.59 ---- 4.75	6.5	1	✓	✓	✓	✓	✓
ETD404		A18	420	105.4	34.65 — 9.05	12.26 — 5.22	6.5	1	✓	✓	✓	✓	✓
ETD410		A17	404	114.2	36.73 — 9.77	12.14 — 5.04	6.5	1	✓	✓	✓	✓	✓
ETD4204		A19	589	174.6	52.01 ---- 14.41	43.33 ---- 9.59	6.5	1	✓	✓	✓	✓	✓
ETD4205		A19	581	173.6	50.53 ---- 13.06	42.55 ---- 9.41	6.5	1	✓	✓	✓	✓	✓
ETD424		A20	559	163.7	50.15 — 14.17	37.54 — 7.82	6.5	1	✓	✓	✓	✓	✓
ETD430		A26	711	203.7	63.34 — 16.20	81.07 — 14.00	6.5	1	✓	✓	✓	✓	✓
ETD4301		A24	765	218.7	61.58 ---- 15.24	100.49 ---- 17.33	6.5	1	✓	✓	✓	✓	✓
ETD4302		A25	779	218.7	65.13 ---- 18.45	99.66 ---- 17.18	6.5	1	✓	✓	✓	✓	✓
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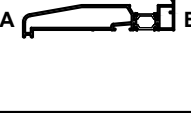
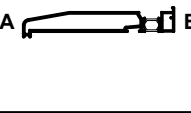
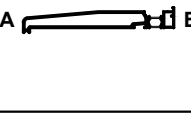
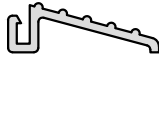
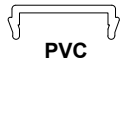
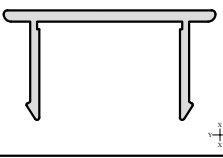
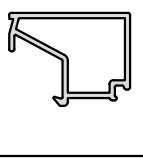
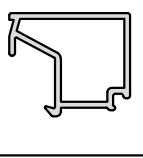
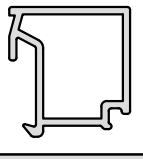
PROFILES : TECHNICAL INFORMATION

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ETD432		A27	414	124.5	41.48 --- 10.78	11.37 --- 3.07	6.5	1	✓	✓	✓	✓	✓
ETD433		A27	402	89.8	29.52 --- 7.17	4.96 --- 1.75	6.5	1	✓	✓	✓	✓	✓
ETD447	 Open In Shown Reverse for Open Out	A23	419	100.2	35.85 --- 8.28	8.67 --- 3.5	6.5	1	✓	✓	✓	✓	✓
ETD448	 Open In Shown Reverse for Open Out	A23	526	125.5	51.81 --- 10.34	13.04 --- 4.43	6.5	1	✓	✓	✓	✓	✓
ETD490		A21	335	64.7	44.19 --- 8.28	1.45 --- 1.56	6.5	1	✓	✓			
ETD492		A21	282	41.2	18.63 --- 5.05	0.98 --- 1.05	6.5	1	✓	✓			
ETD495		A22	295	78	33.27 --- 7.36	1.06 --- 1.29	6.5	1	✓	✓			
ETD496	 Open In Shown Reverse for Open Out	A22	282	26.2	10.64 --- 3.07	0.92 --- 1.07	6.5	1	✓	✓	✓	✓	✓
ETD4220		A28	413	104	34.82 --- 9.46	8.85 --- 3.11	6.5	1	✓	✓	✓	✓	✓
								A = Outside B = Inside		MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour M = Dual Colour			

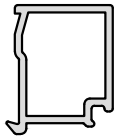
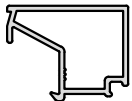
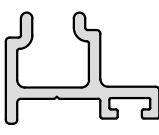
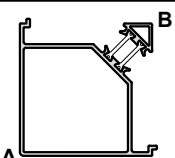
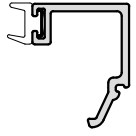
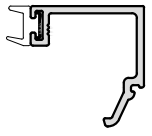
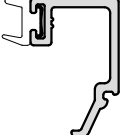
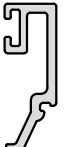
PROFILES : TECHNICAL INFORMATION

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ETD4221		A28	430	108	34.83 — 9.12	10.38 — 3.52	6.5	1	✓	✓	✓	✓	✓
ETD4230		A29	379	100	24.76 — 6.71	6.83 — 2.40	6.5	1	✓	✓	✓	✓	✓
ETD4238		A30	505	165	28.99 — 8.92	38.08 — 9.54	6.5	1	✓	✓	✓	✓	✓
ETD4239		A30	491	139	38.18 — 11.20	43.85 — 11.13	6.5	1	✓	✓	✓	✓	✓
ETD4247		A29	411	104	35.11 — 8.30	9.77 — 4.02	6.5	1	✓	✓	✓	✓	✓
ETD527		A20	82	40	- --- -	- --- -	6.5	1	✓	✓	✓	✓	✓
ETC4179G ETC4179		A31	104	29	- --- -	- --- -	6.5	1	✓	✓	✓	✓	
ETC451		A38	271	180	32.44 — 7.29	3.46 — 2.79	6.5	1	✓	✓	✓	✓	✓
ETC452		A38	414	382	122.46 — 18.03	6.01 — 3.34	6.5	1	✓	✓	✓	✓	✓
								A = Outside B = Inside		MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour M = Dual Colour			

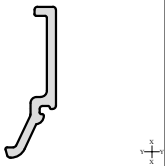
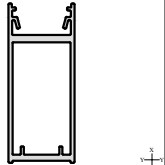
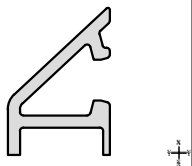
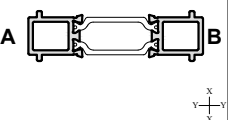
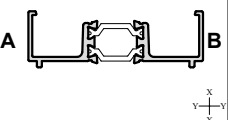
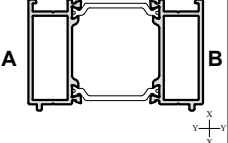
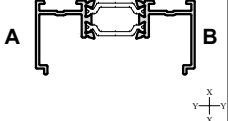
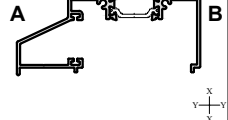
PROFILES : TECHNICAL INFORMATION

Number	Picture	Page	Perim. mm	Mec. mm	lx(cm4) wx(cm3)	ly(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
ETC457		A38	444	412	163.27 --- 21.60	6.79 --- 3.73	6.5	1	✓	✓	✓	✓	✓
ETC458		A39	524	492	313.62 --- 32.63	8.87 --- 4.79	6.5	1	✓	✓	✓	✓	✓
ETC479N		A39	594	559	501.64 --- 44.04	9.72 --- 5.34	6.5	1	✓	✓	✓	✓	✓
EUD03		A22	113	39	- ---- -	- ---- -	4	1	✓	✓			
PCX47		A20	43.4	---	- --- -	- --- -	6.5	1					
SR014		A36	110.4	31.7	- --- -	- --- -	7	1	✓	✓	✓	✓	
UL062		A33	115	49	- --- -	- --- -	6.5	1	✓	✓	✓	✓	
UL067		A33	110	46	- --- -	- --- -	6.5	1	✓	✓	✓	✓	
UL068		A33	101	40	- --- -	- --- -	6.5	1	✓	✓	✓	✓	
								A = Outside B = Inside		MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour M = Dual Colour			

PROFILES : TECHNICAL INFORMATION

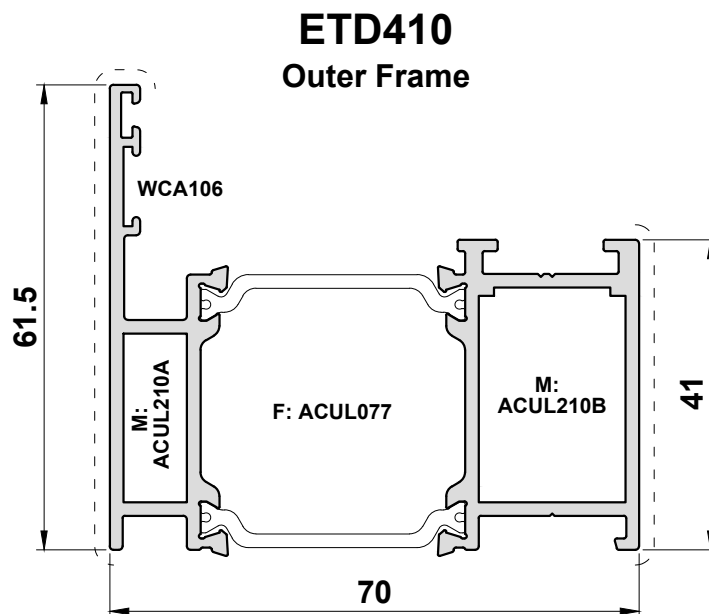
Number	Picture	Page	Perim. mm	Mec. mm	lx(cm4) wx(cm3)	ly(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
UL069		A33	87	48	- -	- -	6.5	1	✓	✓	✓	✓	
UL078		A33	120	51.9	- ---	- ---	6.5	1	✓	✓	✓	✓	
UL079		A33	96	43	- ---	- ---	6.5	1	✓	✓	✓	✓	
UL297		A21	106	12	- -	- -	6.5	1	✓	✓	✓	✓	
UN3010		A35	369	226	41.4 10.7	40 11.6	6.5	1	✓	✓	✓	✓	✓
UN3160G UN3160		A31	120	39	- ---	- ---	6.5	1	✓	✓	✓	✓	
UN3162NG UN3162N		A31	105	41	- ---	- ---	6.5	1	✓	✓	✓	✓	
UN3164G UN3164		A32	112	33	- ---	- ---	6.5	1	✓	✓	✓	✓	
UN3166		A32	99.5	30.6	- -	- -	6.5	1	✓	✓	✓	✓	
								A = Outside B = Inside		MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour M = Dual Colour			

PROFILES : TECHNICAL INFORMATION

Number	Picture	Page	Perim. mm	Mec. mm	lx(cm4) wx(cm3)	ly(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
UN3168		A32	99.5	30.6	- - -	- - -	6.5	1	✓	✓	✓	✓	
UN514		A36	282.7	157.1	35.14 - 8.74	8.86 - 5.47	6.5	1	✓	✓	✓	✓	
VL72		A20	99.5	30.6	- - -	- - -	6.5	1	✓	✓	✓	✓	
UN3015		A34	214.5	56	18.1 --- 5.2	1 --- 1	6.5	1	✓	✓	✓	✓	✓
UN3020		A34	281.6	70.4	14.8 --- 4.2	0.9 --- 1	6.5	1	✓	✓	✓	✓	✓
UN3042		A34	288	111	31.2 --- 8.9	9.5 --- 4.3	6.5	1	✓	✓	✓	✓	✓
UN3370		A35	360	61	18.4 --- 5.26	2.15 --- 1.97	6.5	1	✓	✓	✓	✓	✓
UN3570		A37	545	140	47.47 --- 9.53	9.26 --- 4.87	6.5	1	✓	✓	✓	✓	✓
								A = Outside B = Inside		MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour M = Dual Colour			

Primary Visible Side

Secondary Visible Side

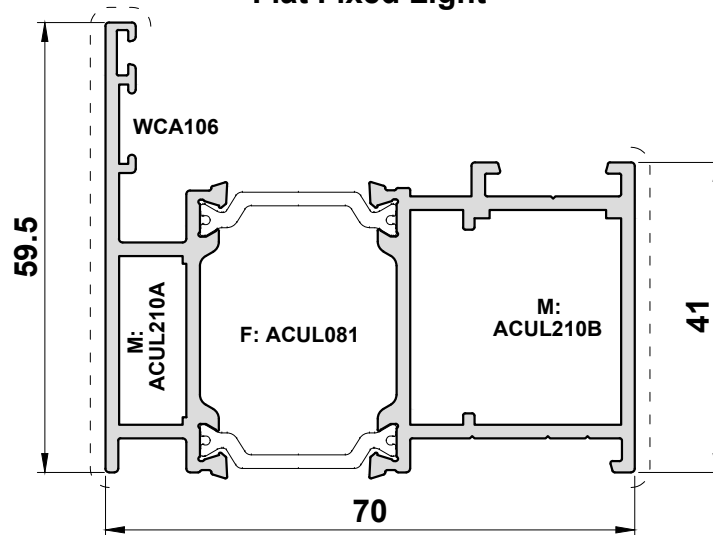


Scale 1:1

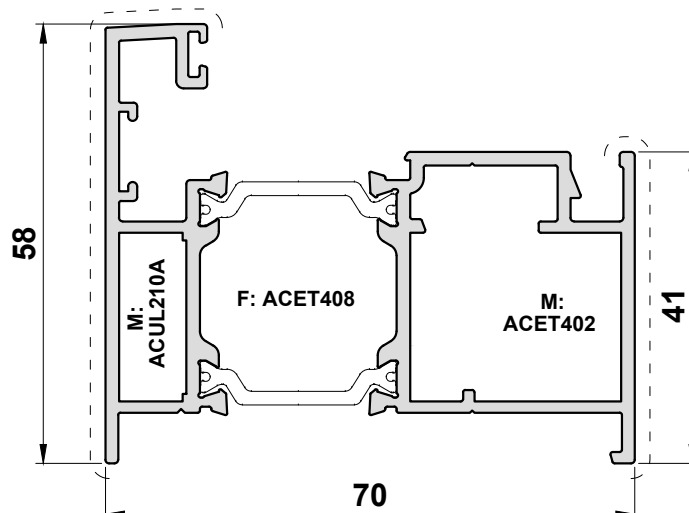
Primary Visible Side

Secondary Visible Side

ETD404 Flat Fixed Light



ETD402 Quick-Glaze Angled Fixed Light



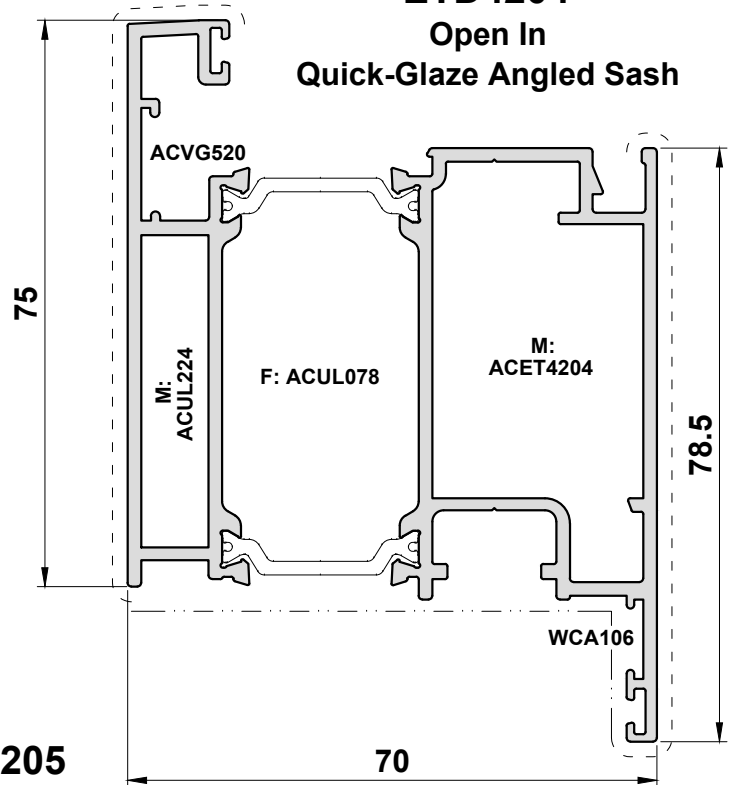
Scale 1:1

Primary Visible Side

Secondary Visible Side

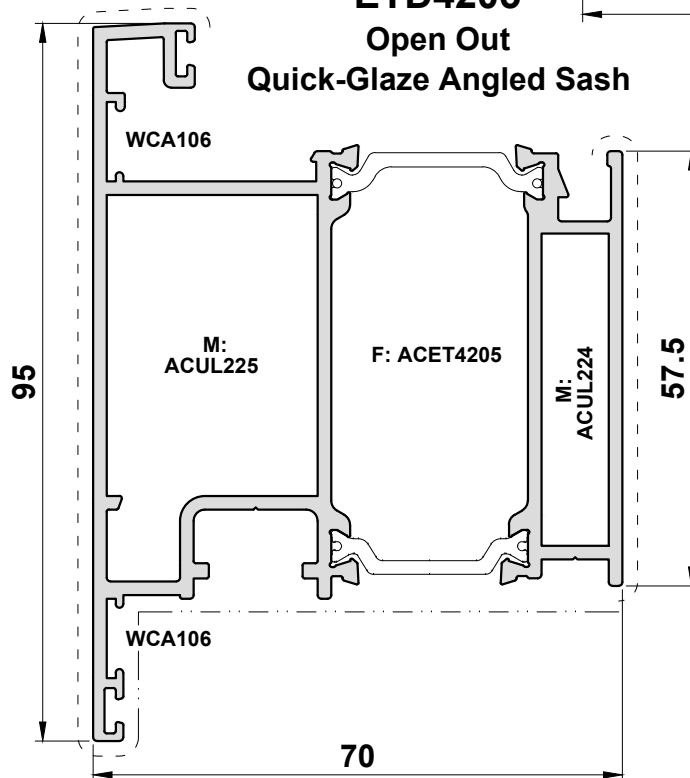
ETD4204

**Open In
Quick-Glaze Angled Sash**



ETD4205

**Open Out
Quick-Glaze Angled Sash**

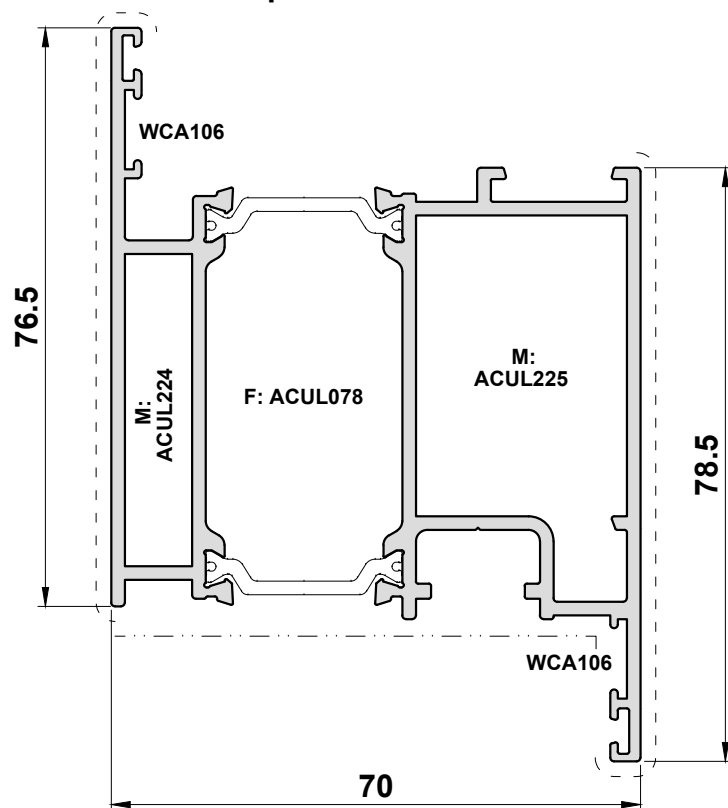


Scale 1:1

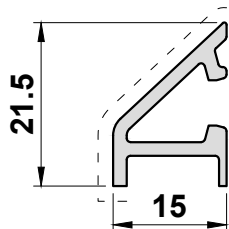
Primary Visible Side

Secondary Visible Side

ETD424 Open In Flat Sash

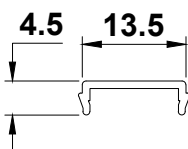


VL72 Weather Drip

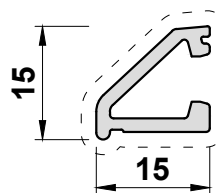


End Cap: ACVL059
Rivet: ACVL061

PCX47 PVC Infill



ETC572 Weather Drip



End Cap: ACET572
Rivet: ACVL061

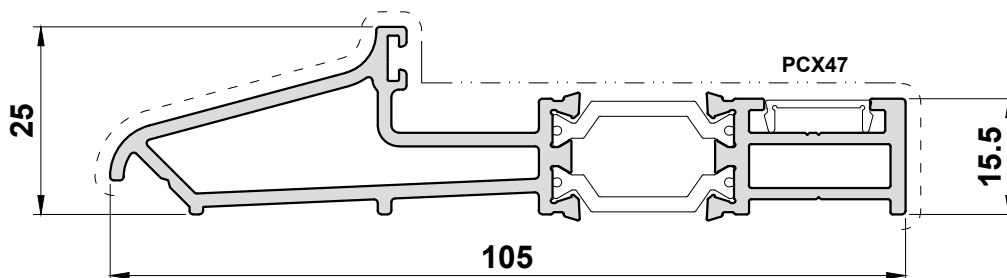
Scale 1:1

Primary Visible Side

Secondary Visible Side

ETD490

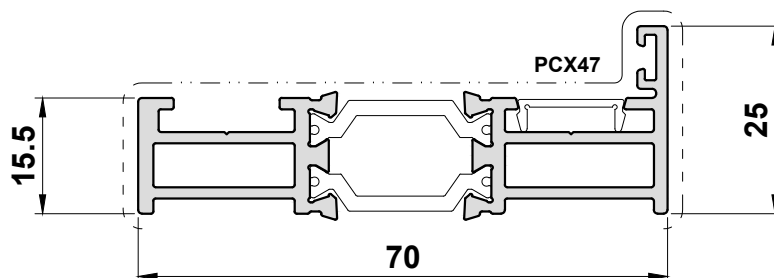
Open In Low Threshold



End Cap: ACET4190

ETD492

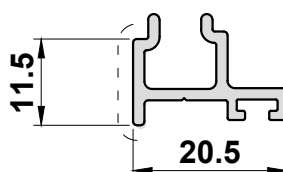
Open Out Low Threshold



End Cap: ACET4192

UL297

Low Threshold Adaptor



End Cap: ACET4197

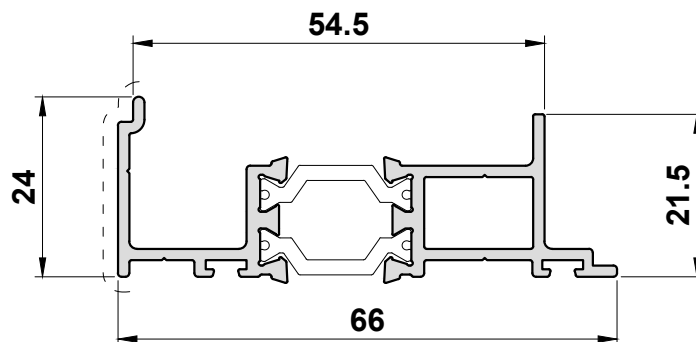
Scale 1:1

Primary Visible Side

Secondary Visible Side

ETD496

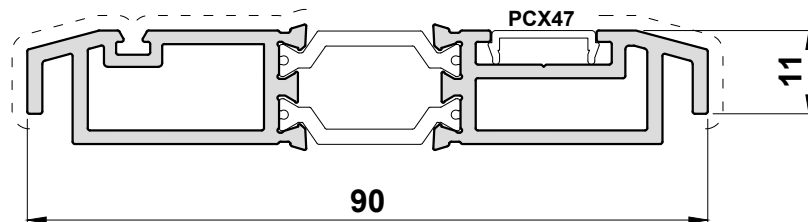
Door Threshold Ramp Adaptor



End Cap: ACET4196

ETD495

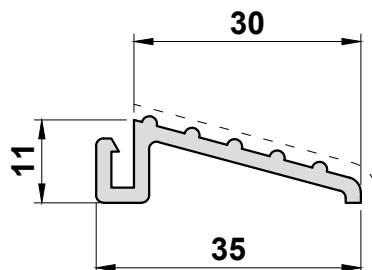
Door Threshold Ramp



End Cap: ACET4195

EUD03

Ramp



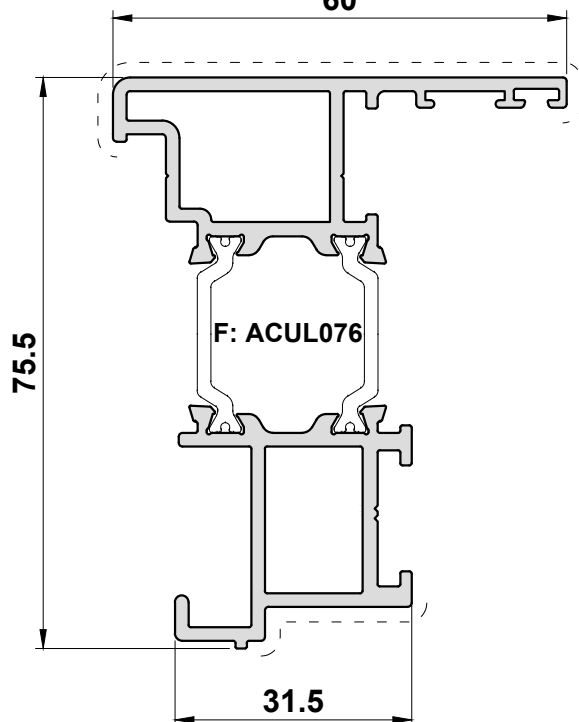
Scale 1:1

Primary Visible Side

Secondary Visible Side

ETD447

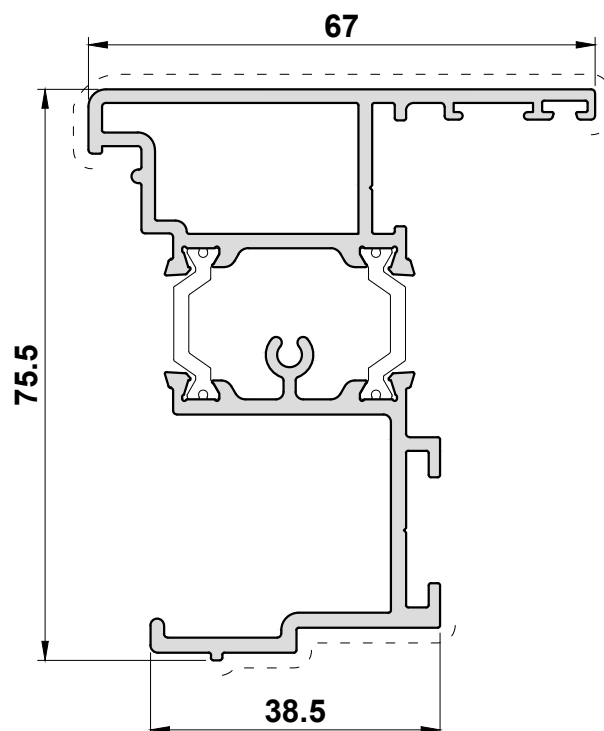
Double Door Meeting Stile 60



End Cap: ACET4142 
ACET4146 
ACET4147 

ETD448

Double Door Meeting Stile 67



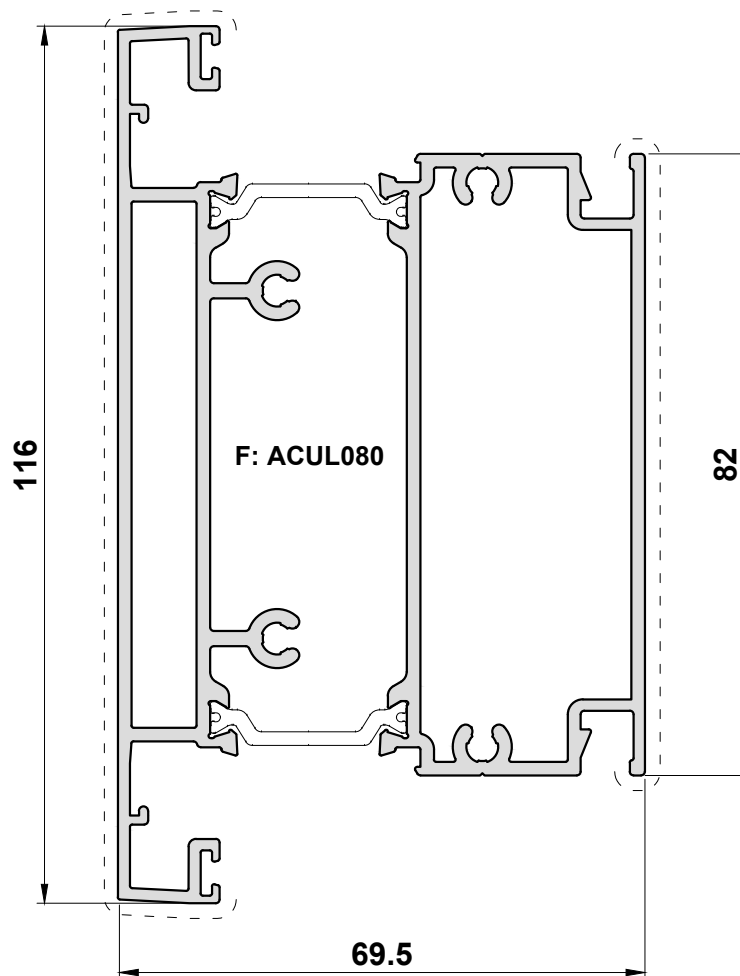
End Cap: ACET4143 
ACET4145 
ACET4148 

Scale 1:1

Primary Visible Side

Secondary Visible Side

ETD4301
Open In
Quick-Glaze Angled Midrail

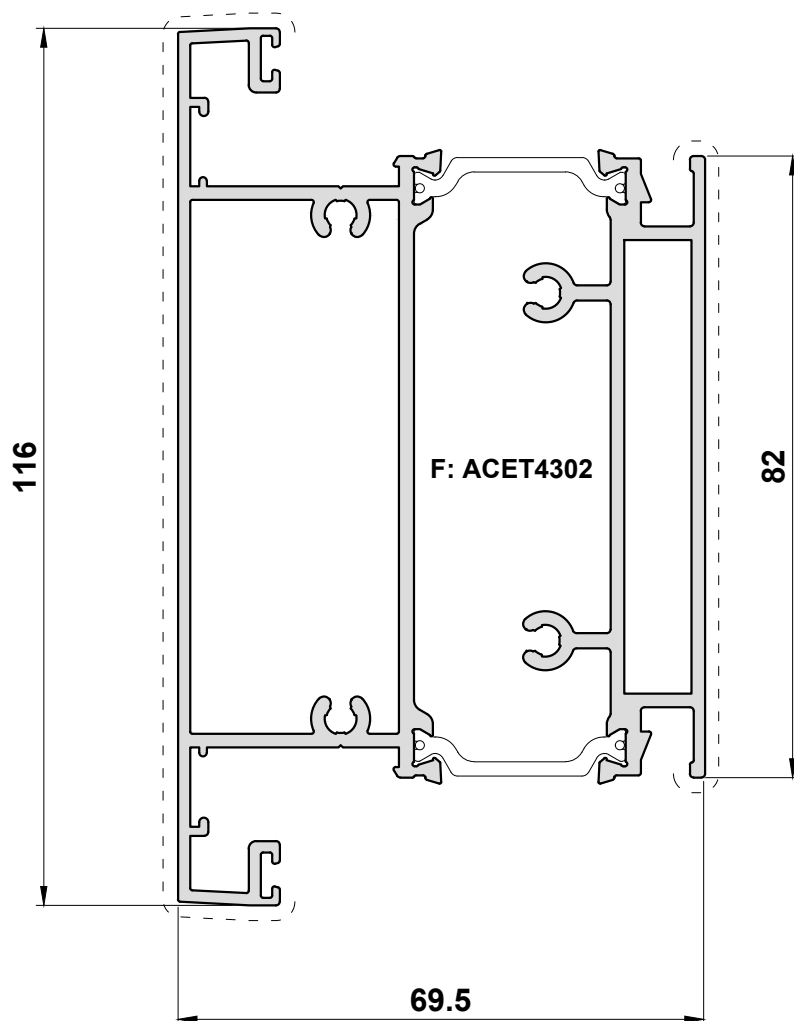


Scale 1:1

Primary Visible Side

Secondary Visible Side

ETD4302
Open Out
Quick-Glaze Angled Midrail



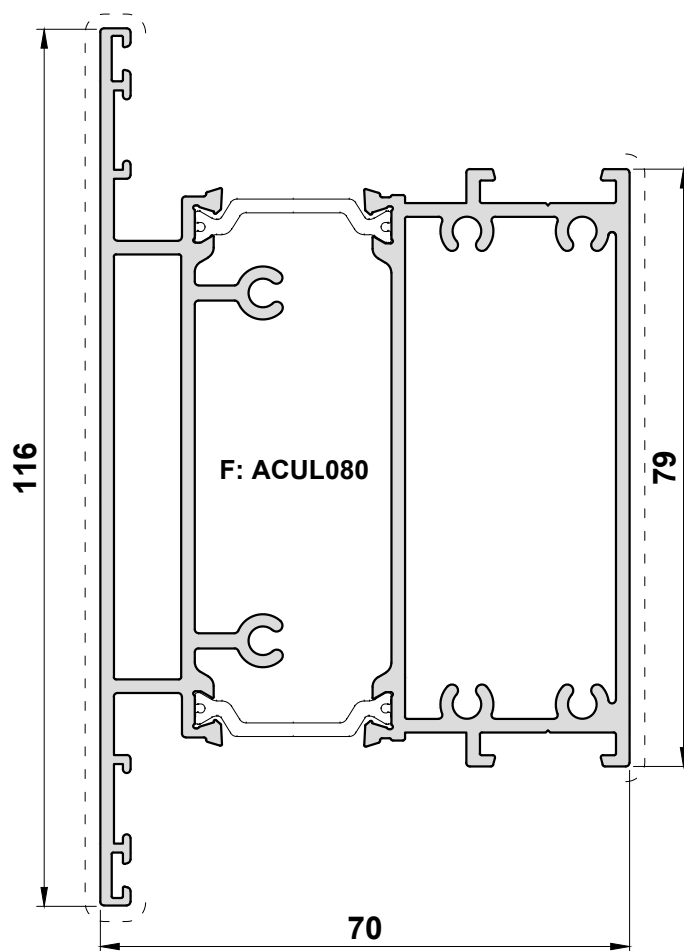
Scale 1:1

Primary Visible Side

Secondary Visible Side

ETD430

Flat Midrail

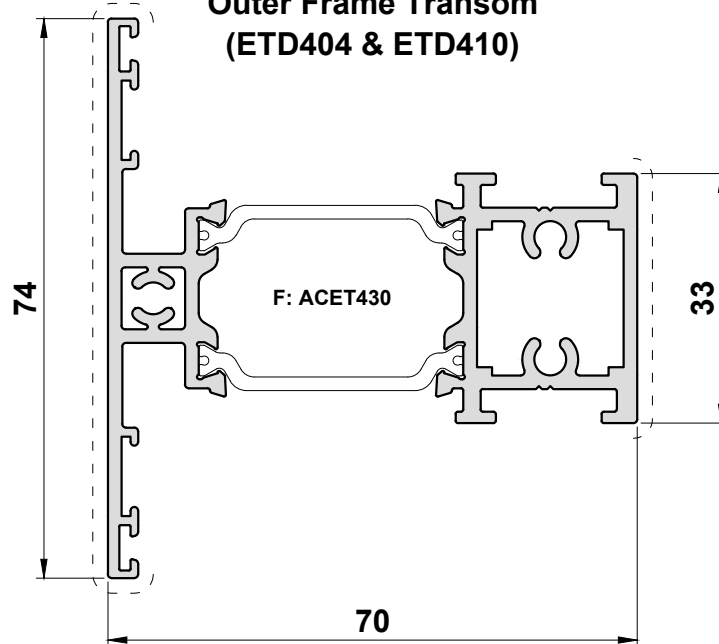


Scale 1:1

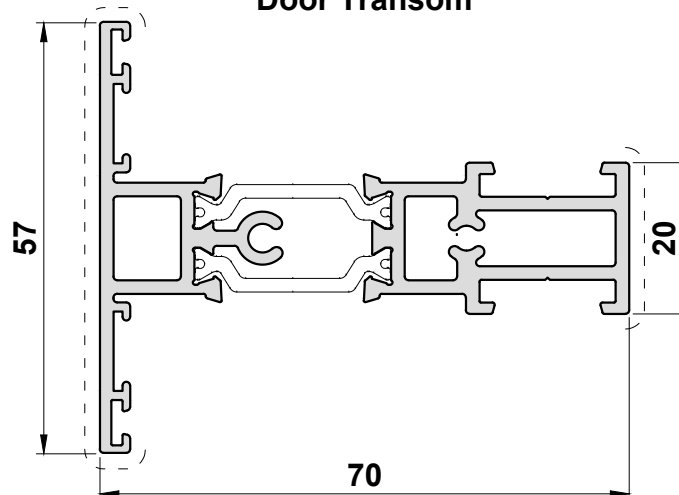
Primary Visible Side

Secondary Visible Side

ETD432
Outer Frame Transom
(ETD404 & ETD410)



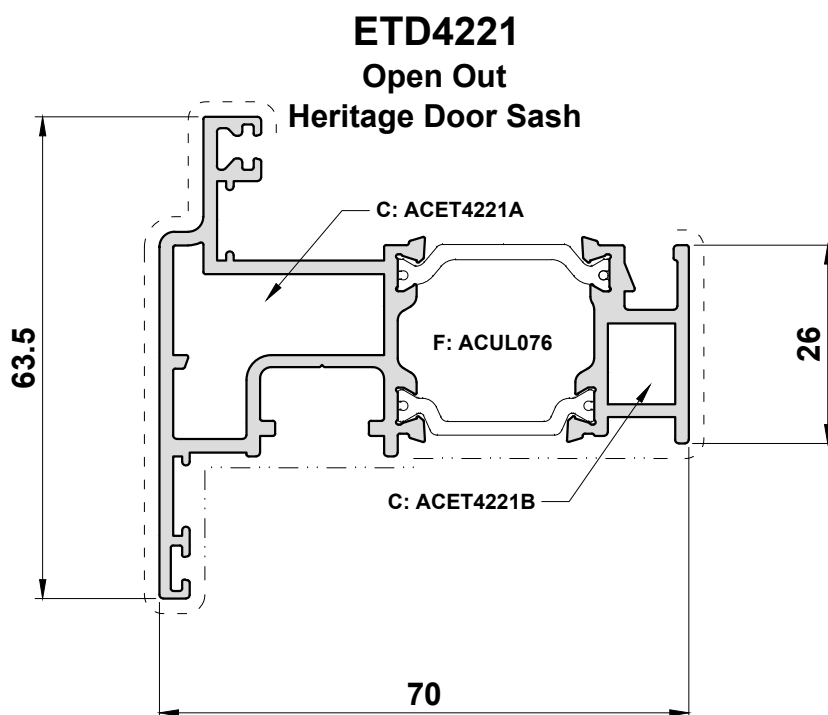
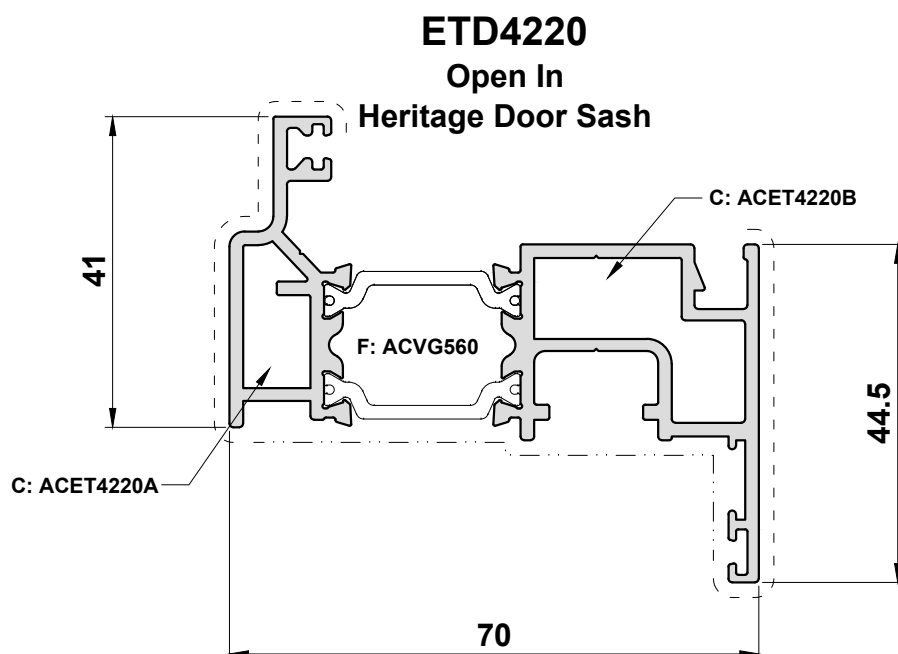
ETD433
Door Transom



Scale 1:1

Primary Visible Side

Secondary Visible Side

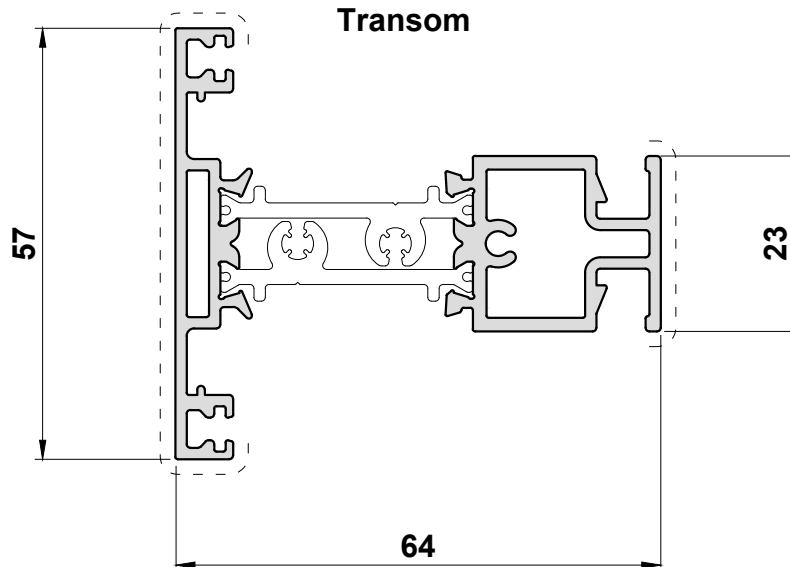


Scale 1:1

Primary Visible Side

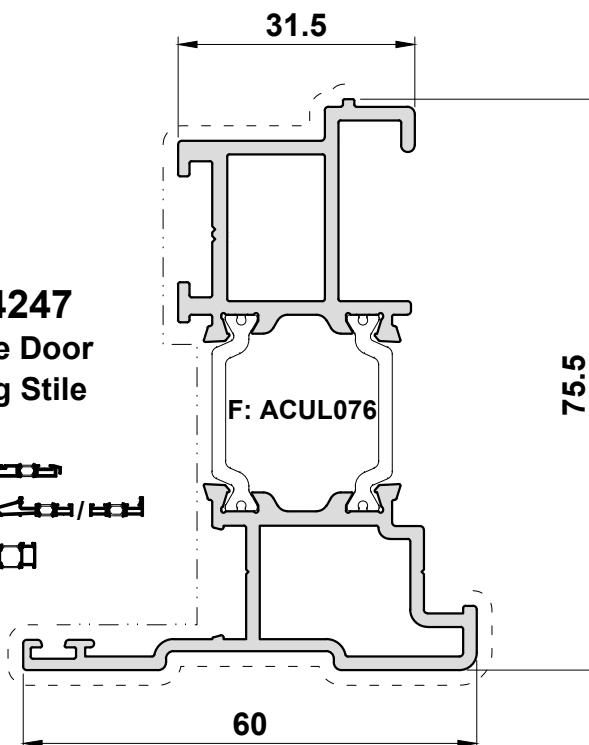
Secondary Visible Side

ETD4230 Heritage Door Transom



ETD4247 Heritage Door Meeting Stile

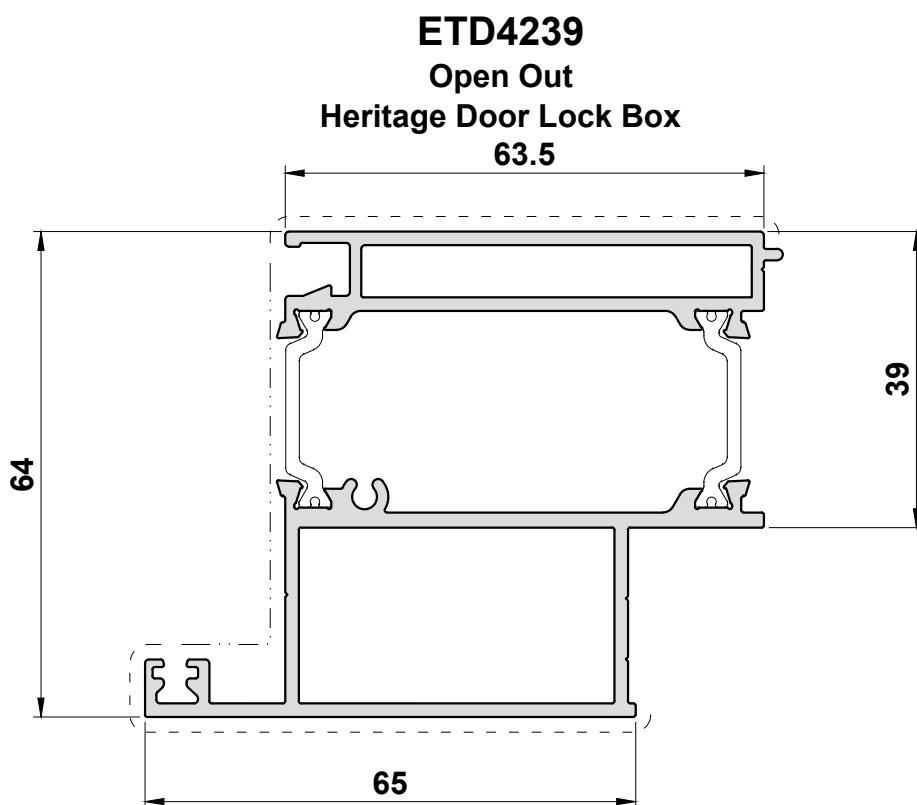
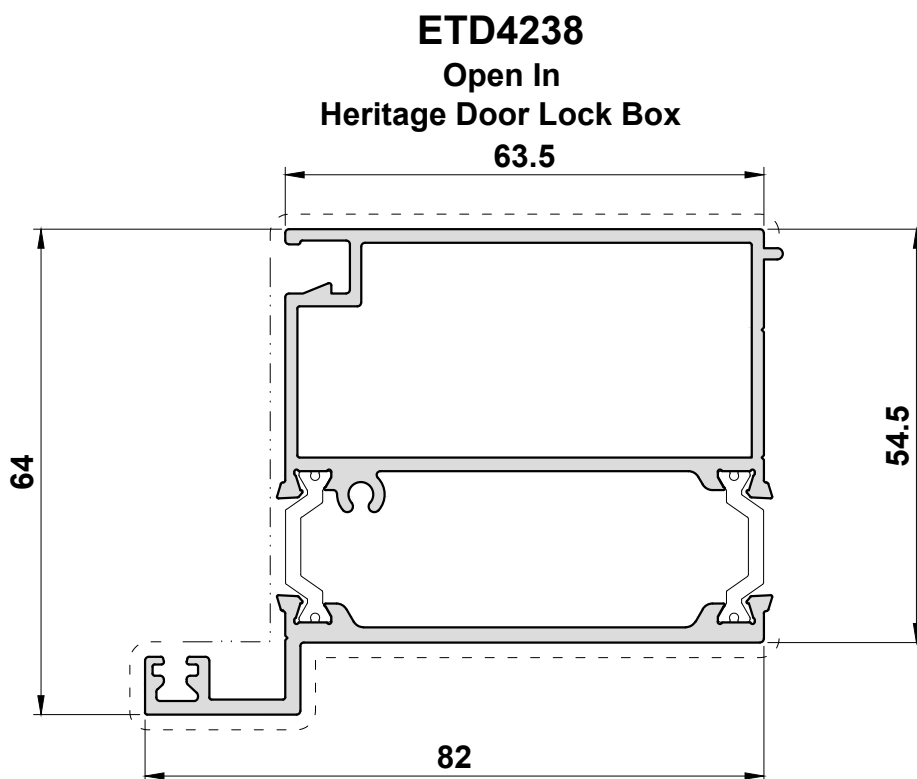
End Cap: ACET4242 
ACET4246 
ACET4247 



Scale 1:1

Primary Visible Side

Secondary Visible Side

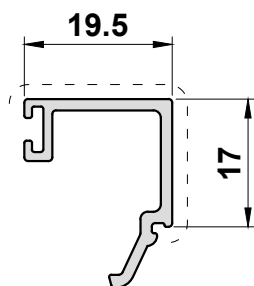


Scale 1:1

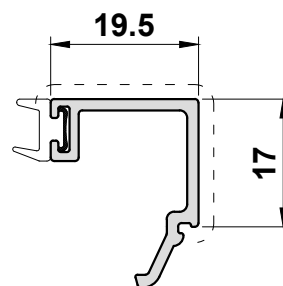
Primary Visible Side

Secondary Visible Side

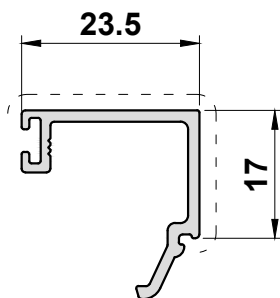
UN3160
28mm Square Bead



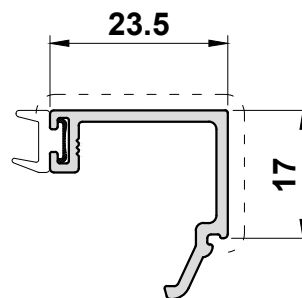
UN3160G
28mm Square Bead
with Gasket



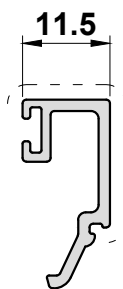
UN3162N
23.5mm Bead



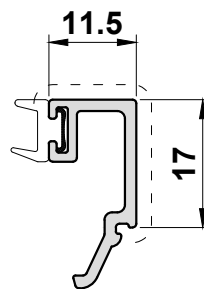
UN3162NG
23.5mm Bead
with Gasket



ETC4179
11.5mm Bead



ETC4179G
11.5mm Bead
with Gasket

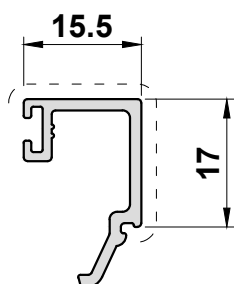


Scale 1:1

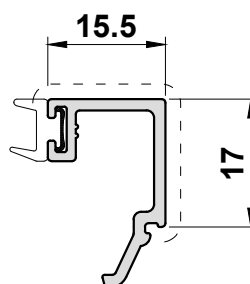
Primary Visible Side

Secondary Visible Side

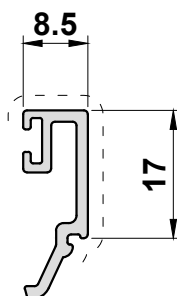
UN3164
15mm Bead



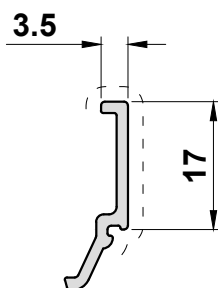
UN3164
15mm Bead
with Gasket



UN3166
8.5mm Bead



UN3168
3.5mm Bead

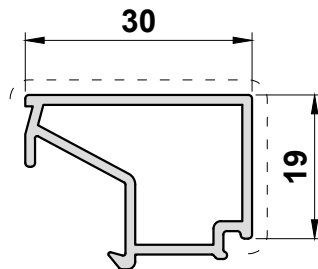


Scale 1:1

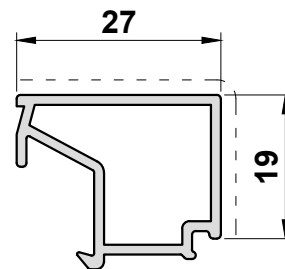
Primary Visible Side

Secondary Visible Side

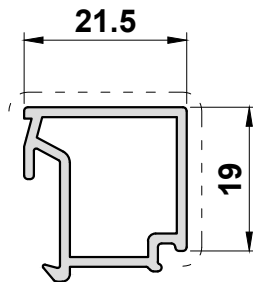
UL062
Glazing Bead



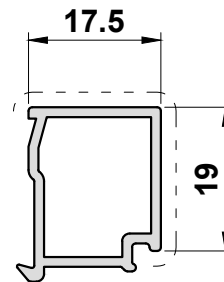
UL067
Glazing Bead



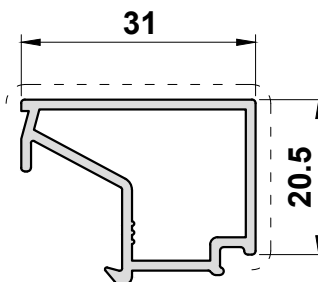
UL068
Glazing Bead



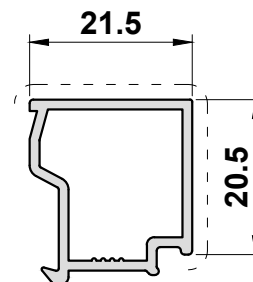
UL069
Glazing Bead



UL078
Glazing Bead



UL079
Glazing Bead

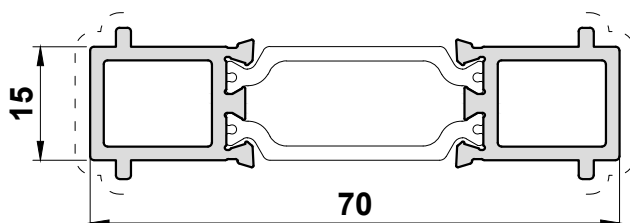


Scale 1:1

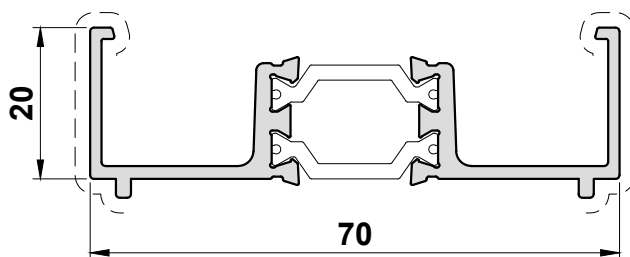
Primary Visible Side

Secondary Visible Side

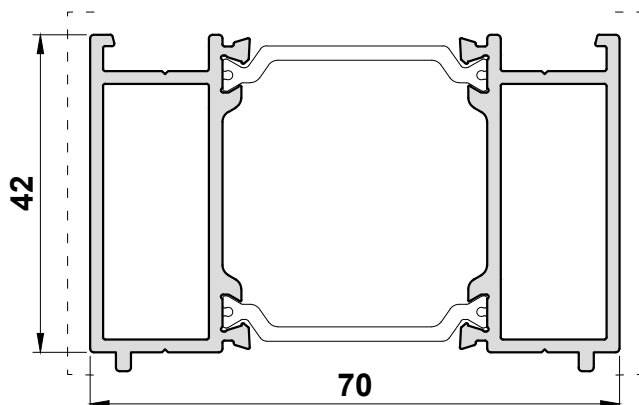
UN3015
70mm x 15mm Coupler



UN3020
70mm x 20mm Frame Extension



UN3042
42 x 70mm Head Extension

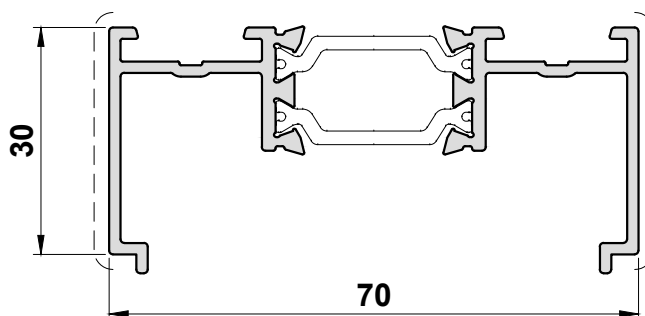


Scale 1:1

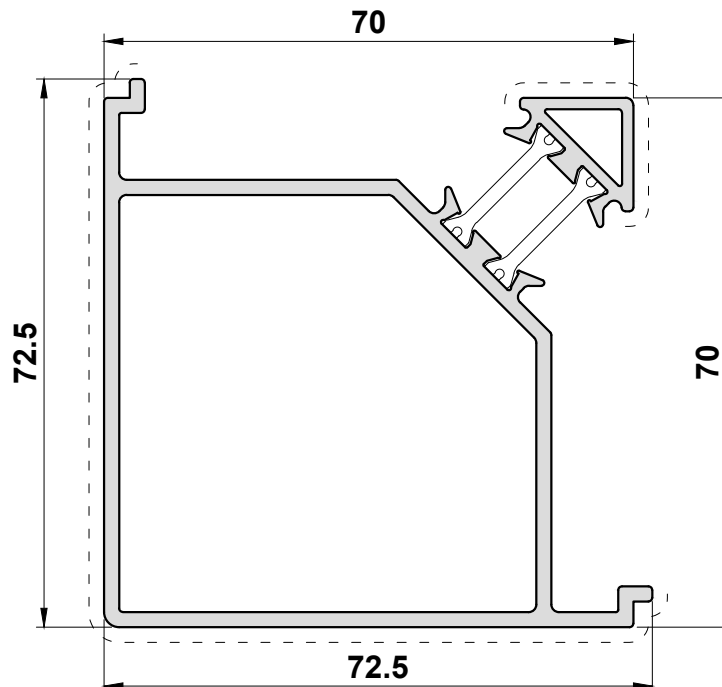
Primary Visible Side

Secondary Visible Side

UN3370 30 x 70mm Head Extension



UN3010 90° Corner Post

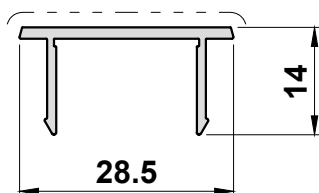


Scale 1:1

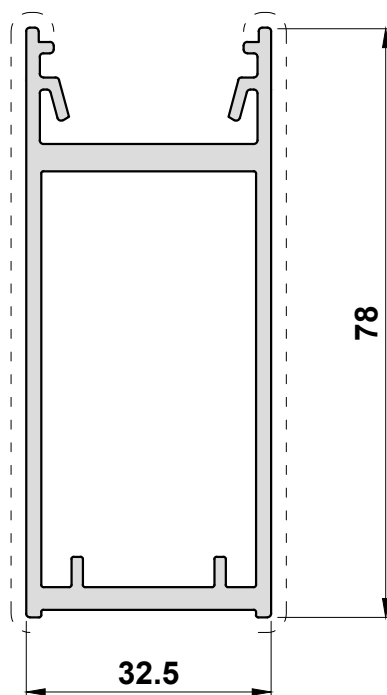
Primary Visible Side

Secondary Visible Side

SR014 Cover Cap for UN514



UN514 Re-Inforcement for ETD455

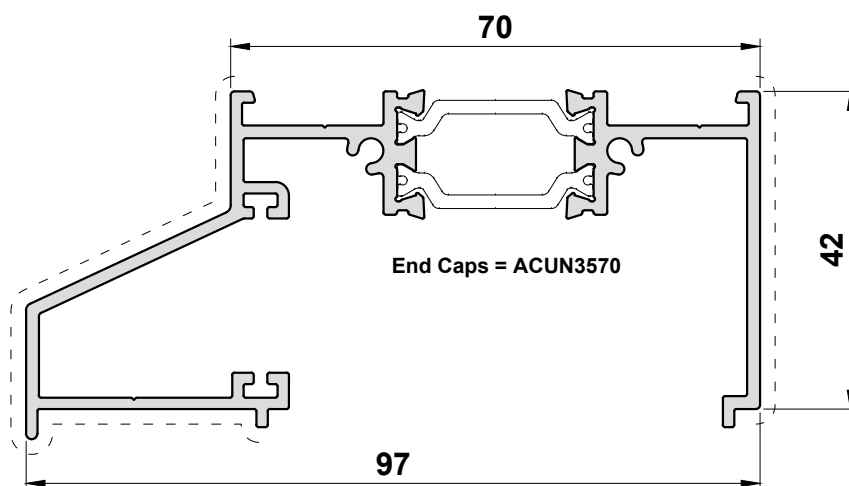


Scale 1:1

Primary Visible Side

Secondary Visible Side

UN3570 70 x 42mm Hooded Head Extension

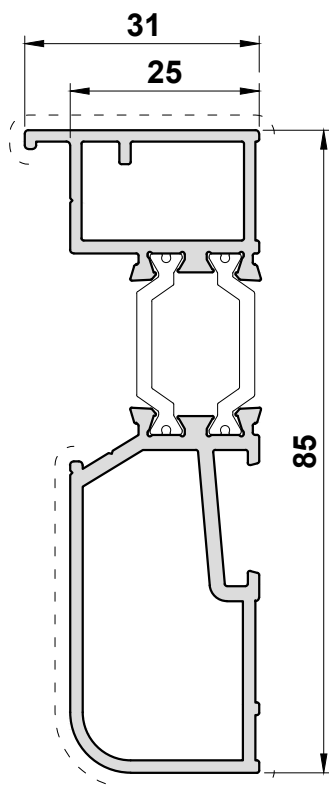


Scale 1:1

Primary Visible Side

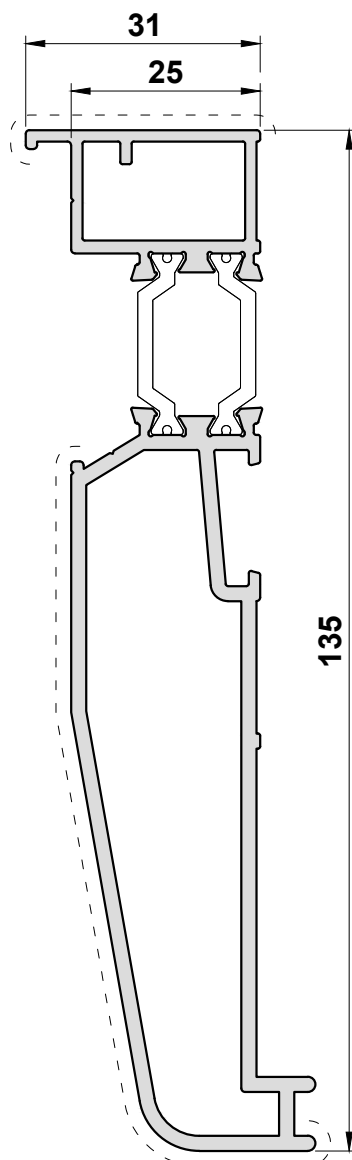
Secondary Visible Side

ETC451
85mm Cill



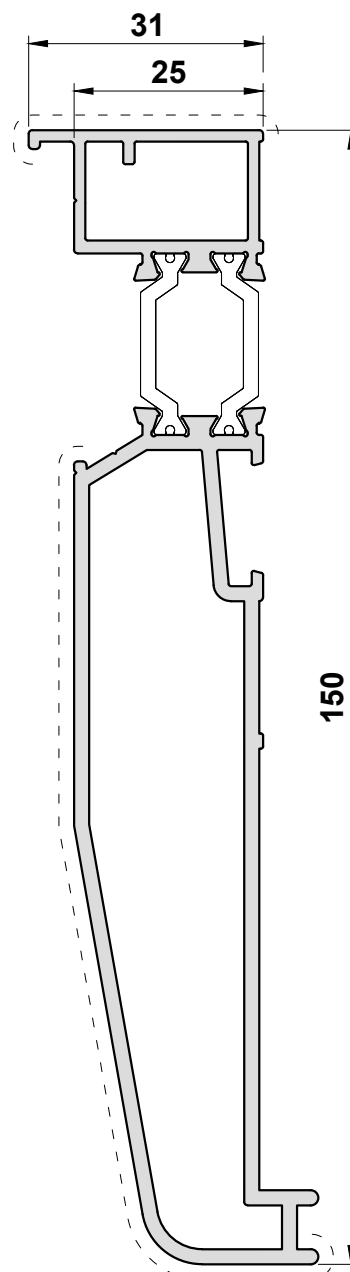
Cast End Cap: ACET451
PVC End Cap: ACET178

ETC452
135mm Cill



Cast End Cap: ACET452
PVC End Cap: ACET152

ETC457
150mm Cill



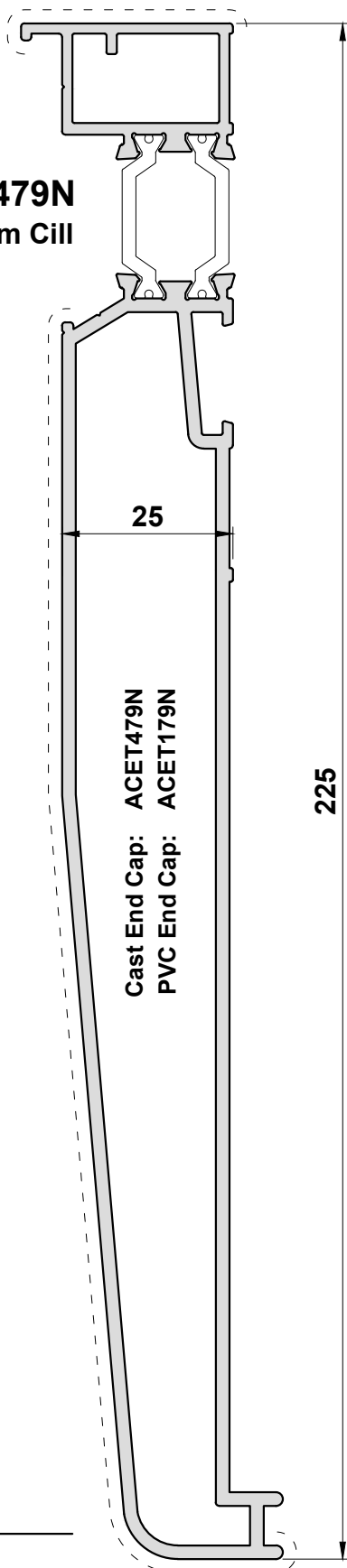
Cast End Cap: ACET457
PVC End Cap: ACET157

Scale 1:1

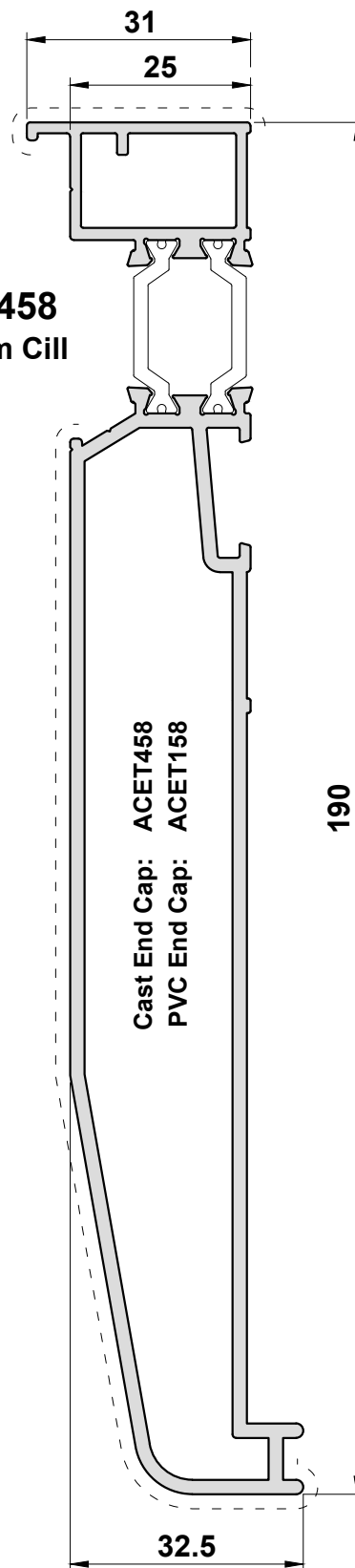
Primary Visible Side

Secondary Visible Side

ETC479N
225mm Cill



ETC458
190mm Cill



Scale 1:1

Primary Visible Side

Secondary Visible Side

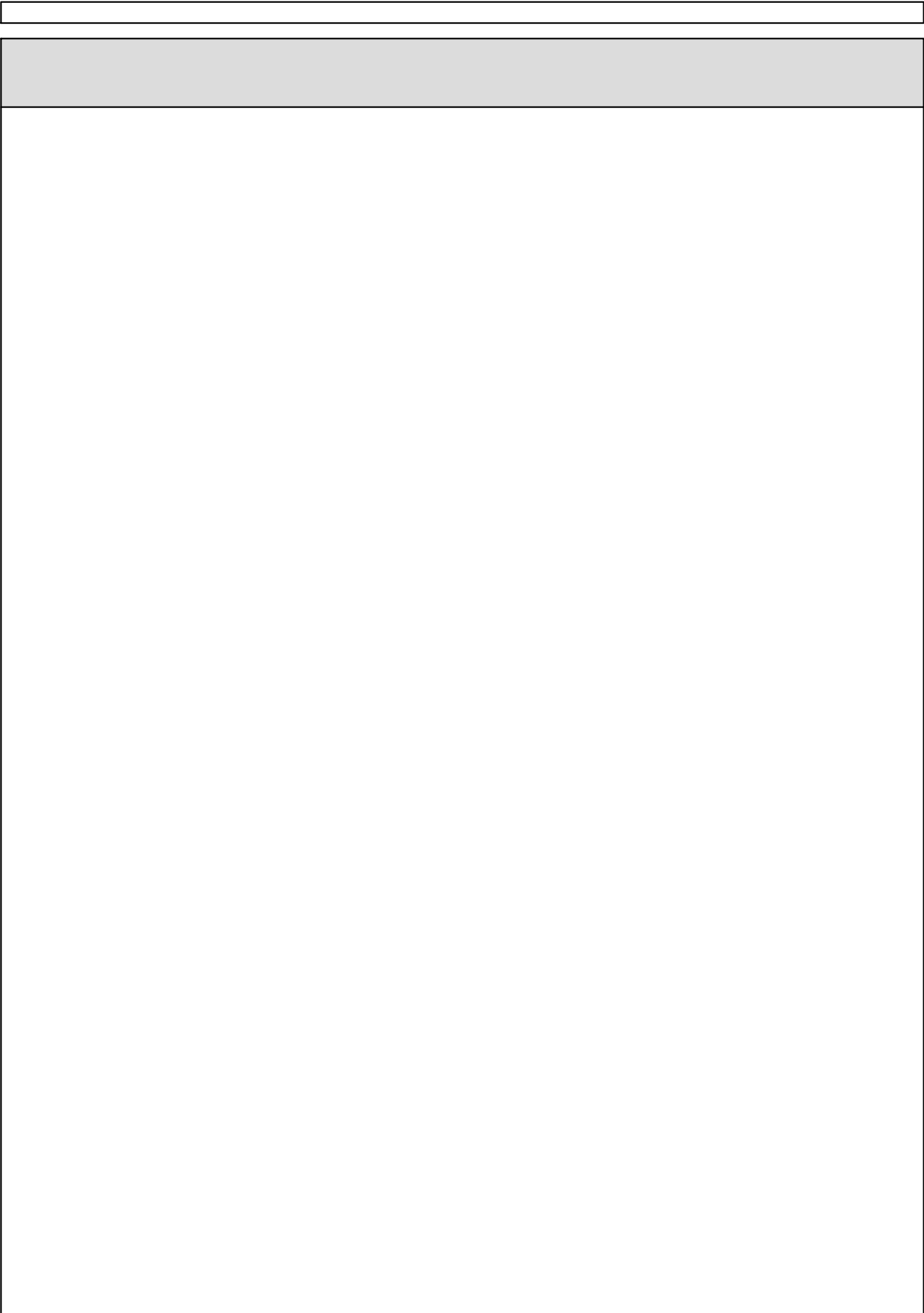
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Scale 1:1

Section B

Accessories

Photos & Drawings

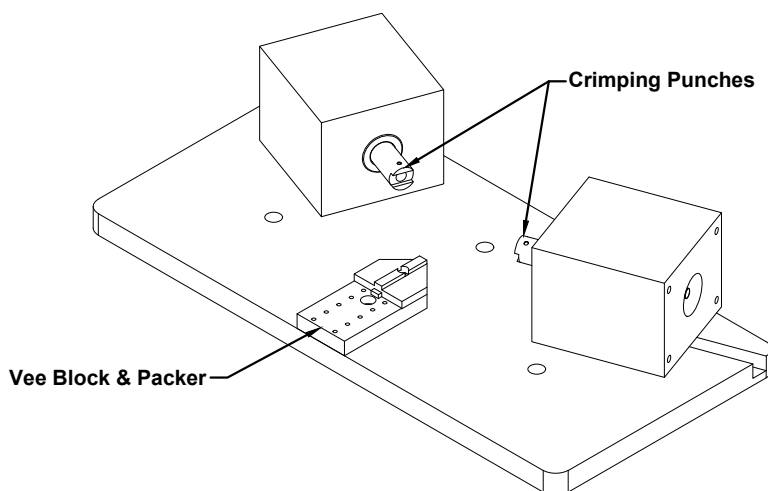


Corner Joint - Crimping

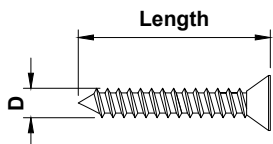
	Profile	Crimping Punches	Vee Block	Nylon Support	Packer
Outerframe	ETD4220	ACET4920P	ACUN3950 ACUN3957	ACUN3952	ACET4381 ACET4382
Sash	ETD4221	ACET4920P	ACUN3964	ACUN3952	ACET4380 ACET4384

PNEUMATIC CRIMPER
ACCR200N

MANUAL CRIMPER
ACCR300



Countersunk Screws



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

Part Number	Gauge	X	Length	Description	Box Qty.
ACUN3530	No.6	X	5/8"	Countersunk Pozi Self Tapper S/S	100
MUA025SSZ	No.6	X	1"	Countersunk Pozi Self Tapper S/S	100
ACET067	No.7	X	1/2"	Countersunk Pozi Self Tapper S/S	100
ACUN3544	No.7	X	3/4"	Countersunk Pozi Self Tapper S/S	100
ACET060	No.7	X	1"	Countersunk Pozi Self Tapper S/S	100
ACET066	No.7	X	1 1/2"	Countersunk Pozi Self Tapper S/S	100
MUA067SSZ	No.7	X	2"	Countersunk Pozi Self Tapper S/S	100
ACUN3544	No.7	X	3/4"	Countersunk Pozi Self Tapper S/S	100
ACET064	No.8	X	5/8"	Countersunk Pozi Self Tapper S/S	100
ACUN3512	No.8	X	1 1/4"	Countersunk Pozi Self Tapper S/S	100
ACUN3513	No.8	X	1 3/4"	Countersunk Pozi Self Tapper S/S	100
ACET072	No.8	X	2 1/2"	Countersunk Pozi Self Tapper S/S	100
ACET490	4.3mm	X	16mm	Countersunk PH2 Polyamide Screw	1000
ACET290	4.3mm	X	20mm	Countersunk PH2 Polyamide Screw	100
ACET390	4.3mm	X	25mm	Countersunk PH2 Polyamide Screw	200
ACET190	4.3mm	X	45mm	Countersunk PH2 Polyamide Screw	1000
ACVS062	4.3mm	X	65mm	Countersunk PH2 Polyamide Screw	1000
ACET048	No.10	X	3/8"	Countersunk Pozi Self Tapper S/S	100
ACUN3577	No.10	X	3/4"	Countersunk Pozi Self Tapper S/S	100
ACIM062	No.10	X	1 1/4"	Countersunk Pozi Self Tapper S/S	100
ACET062	No.10	X	2"	Countersunk Pozi Self Tapper S/S	100
ACET076	No.10	X	2 1/2"	Countersunk Pozi Self Tapper S/S	100



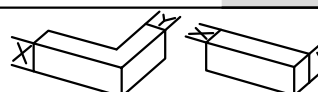
T-BARS
ACVG65=2.5mm
ACVG66=3.0mm
ACVL150=4.0mm



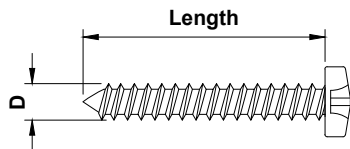
Screw (Grub)

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

WP = White
BL = Black



Pan Head Screws



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

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



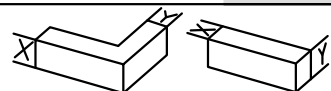
T-BARS
ACVG66=2.5mm
ACVG66=3.0mm
ACVL150=4.0mm



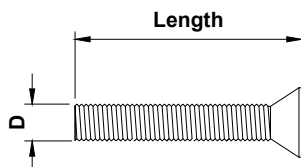
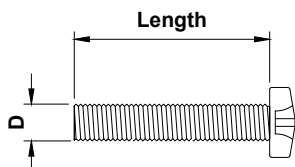
Screw (Grub)

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

WP = White
BL = Black



Machine Screws



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

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

Part Number	Thread	X	Length	Description	Box Qty.
ACUN3581	M5	X	12	Pan Head Pozi Machine Screw	100
ACUN3819	M6	X	75	Pan Head Pozi Machine Screw	100



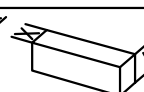
T-BARS
ACVG65=2.5mm
ACVG66=3.0mm
ACVL150=4.0mm



Screw (Grub)

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

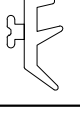
WP = White
BL = Black



Glazing Gaskets

Retaining Gasket

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

High Line	2mm		ACVG231
			200m
			BL
	3mm		ACVG31
			200m
			BL
	4mm		ACVG131
			100m
			BL
Low Line	2mm		ACET843
			200m
			BL
	3mm		ACET842
			200m
			BL
	4mm		ACET841
			200m
			BL
	4mm		ACET835
			200m
			BL

Thickness	Drawing 1:1	Part number
		Coil length
		Available Colours

Wedge Gasket

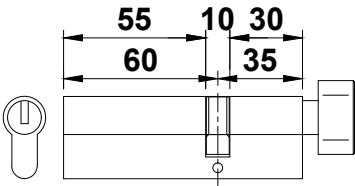
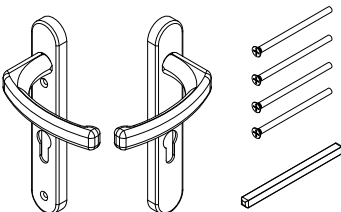
Wedge Gaskets help to hold the bead in place by providing tension between the bead and the glazing unit.

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

Image	Part Code	Pack	Unit	Application	Colour	
	ACCY0035 35mm Euro Profile Half Cylinder Supplied with 3 Keys	1	Each		MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACCY0065TTS1 65mm 1 Star Euro Profile Half Cylinder Supplied with 3 Keys	1	Each	Open Out	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACCY3060S1 30/60 1 Star Euro Profile Cylinder Supplied with 3 Keys	1	Each	Open Out	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACCY3060TTS1 30/60 1 Star Euro Profile Cylinder Supplied with 3 Keys	1	Each	Open Out	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACCY3560NKS3 35/60 TS007 3 Star Euro Profile Cylinder Supplied with 3 Keys	1	Each	Open Out	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm		MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		WP = White BL = Black		

Image	Part Code	Pack	Unit	Application	Colour
	ACCY3560NKTTTS3 35/60 TS007 3 Star Euro Profile Cylinder Supplied with 3 Keys	1	Each	Open Out	MF ☒
					SA ☐
					KL ☐
					HP ☐
					SSC ☐
					SMC ☐
					WP ☐
					BL ☐
					PC ☐
	ACCY3565TTS1 35/65 1 Star Euro Profile Cylinder Supplied with 3 Keys	1	Each	Open Out	MF ☒
					SA ☐
					KL ☐
					HP ☐
					SSC ☐
					SMC ☐
					WP ☐
					BL ☐
					PC ☐
	ACCY4535S1 45/35 1 Star Euro Profile Cylinder Supplied with 3 Keys	1	Each	Open In	MF ☒
					SA ☐
					KL ☐
					HP ☐
					SSC ☐
					SMC ☐
					WP ☐
					BL ☐
					PC ☐
	ACCY4535TTS1 45/35 1 Star Euro Profile Cylinder Supplied with 3 Keys	1	Each	Open In	MF ☒
					SA ☐
					KL ☐
					HP ☐
					SSC ☐
					SMC ☐
					WP ☐
					BL ☐
					PC ☐
	ACCY6035NKS3 35/60 TS007 3 Star Euro Profile Cylinder Supplied with 3 Keys	1	Each	Open In	MF ☒
					SA ☐
					KL ☐
					HP ☐
					SSC ☐
					SMC ☐
					WP ☐
					BL ☐
					PC ☐
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	WP = White BL = Black		

ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	ACCY6035NKTTS3 60/35 TS007 3 Star Euro Profile Cylinder Supplied with 3 Keys	1	Each	Open In	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
						ACDV251 Lever/Lever Handle
SA						
KL	✓					
HP	✓					
SSC						
SMC						
WP	✓					
BL	✓					
PC	✓					
	ACDV737 Bottom Shoot Bolt	1	Each	ACUL276 ACUL277 ACUL278		
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
						ACDV738 Top Shoot Bolt
SA						
KL						
HP						
SSC						
SMC						
WP						
BL						
PC						
	ACDV742 200mm Extension for ACDV738	1	Each	ACUL276 ACUL277 ACUL278 ACDV737 ACDV738		
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
					 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)

ACCESSORIES : PHOTOS & DRAWINGS

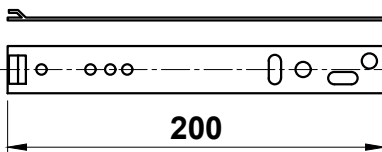
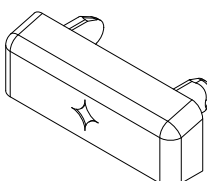
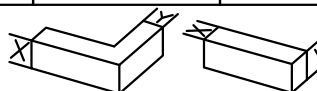
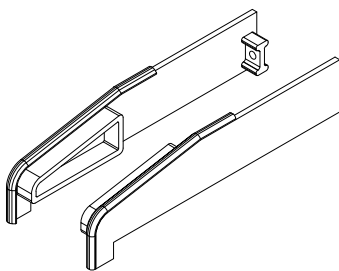
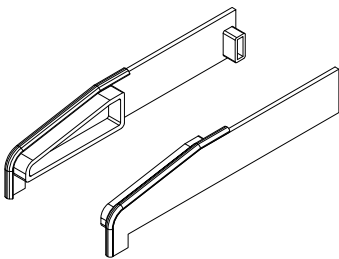
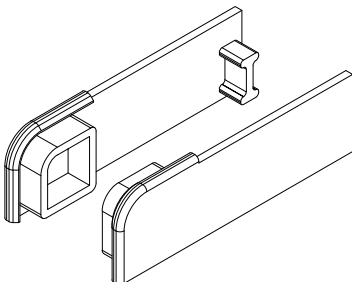
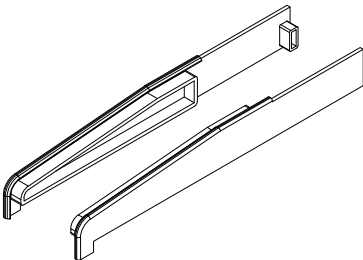
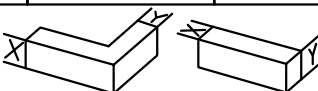
Image	Part Code	Pack	Unit	Application	Colour	
	ACDV744 400mm Extension for ACDV738	1	Each	ACUL276 ACUL277 ACUL278 ACDV737 ACDV738	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACDV746 600mm Extension for ACDV738	1	Each	ACUL276 ACUL277 ACUL278 ACDV737 ACDV738	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACET130 Galvanised Steel Fixing Strap 200mm x 25mm x 1.5mm	100	Pack	ETD410	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACET131 PVC Drainage Cap For Colour match Drainage caps use - ACET432	100	Pack		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	ACET149 Slimline Restrictor	1	Each		MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
 T-BARS ACVG66=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		W = White Z = Black		

Image	Part Code	Pack	Unit	Application	Colour	
	ACET152 PVC Cill End Caps	10	Pair	ETC452	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	ACET157 PVC Cill End Caps	10	Pair	ETC457	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	ACET178 PVC Cill End Caps	10	Pair	ETC451	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	ACET179 PVC Cill End Caps	10	Pair	ETC479	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	ACET234 Threshold Gasket	50	m		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	✓
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm  Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	W = White Z = Black				

ACCESSORIES : PHOTOS & DRAWINGS

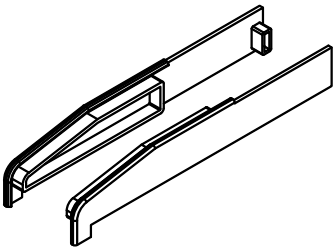
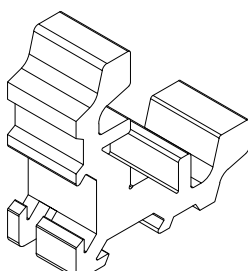
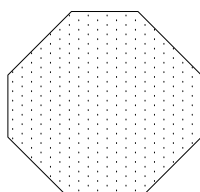
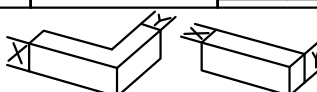
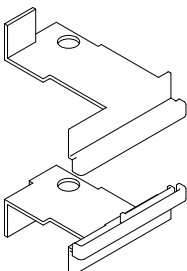
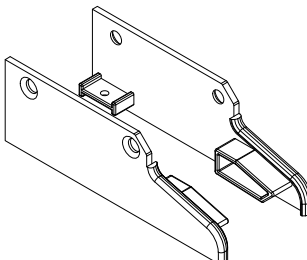
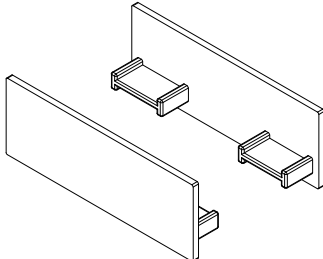
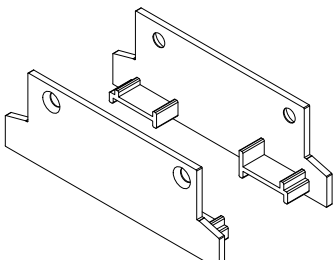
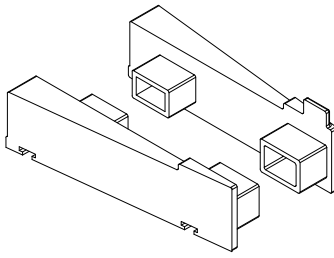
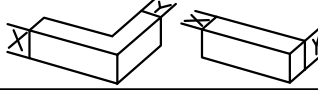
Image	Part Code	Pack	Unit	Application	Colour	
	ACET252 Hinge Protector Kit	1	kit		MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACET258 PVC Cill End Cap	10	Pair	ETC458	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	ACET402 Mechanical Cleat	24	Pack	ETD402	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACET408 Infill Foam	1	Each	ETD402	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	✓
					PC	
	ACET4133 Bridge Packer	10	Pack	ETD432	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	✓
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		WP = White BL = Black		

Image	Part Code	Pack	Unit	Application	Colour
	ACET4142 End Cap Kit	1	kit	ETD447 ETD495 ETD496	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	ACET4143 End Cap Kit	1	kit	ETD448 ETD495 ETD496	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	ACET4145 End Cap	10	Pairs	ETD448 ETD490 ETD492	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	ACET4146 End Cap	10	Pairs	ETD447 ETD490 ETD492	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	ACET4147 End Cap	10	Pairs	ETD447 ETD410	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm		 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	WP = White BL = Black	

ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	ACET4148 End Cap	10	Pairs	ETD448 ETD410	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	ACET4190 ETD490 End Cap	1	Pair	ETD490	MF	✓
					SA	
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	ACET4192 ETD492 End Cap	10	Pairs	ETD492	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	ACET4195 ETD495 End Cap	10	Pairs	ETD495	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	ACET4196 ETD496 End Cap	10	Pairs	ETD496	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		WP = White BL = Black		

ACCESSORIES : PHOTOS & DRAWINGS

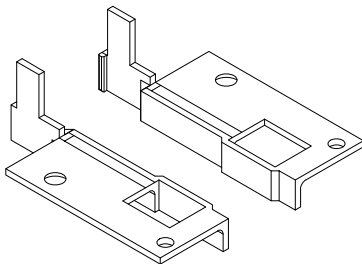
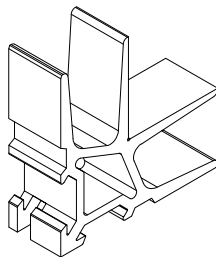
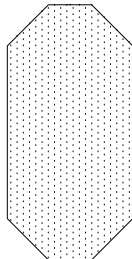
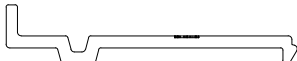
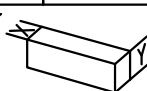
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	ACET4197 End Cap for UL297	1	Pair	UL297	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	ACET4204 Mechanical Cleat	24	Pack	ETD4204	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACET4205 Infill Foam	1	Each	ETD4205	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	✓
					PC	
	ACET4206 Bridge Packer	10	Pack	ETD402 ETD4204 ETD4301	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	✓
					PC	
	ACET4207 Bridge Packer	10	Pack	ETD4205 ETD4302	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	✓
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		WP = White BL = Black		 

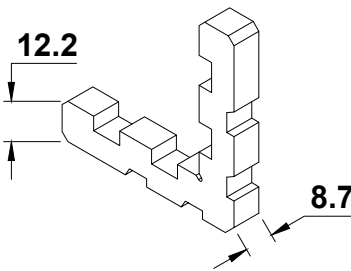
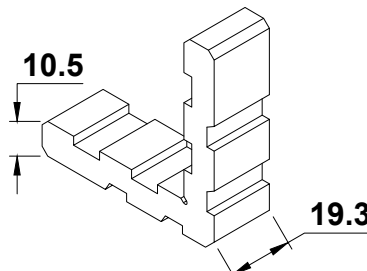
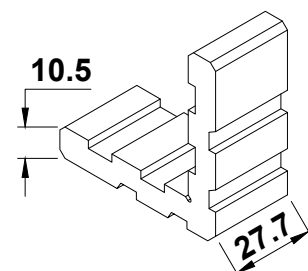
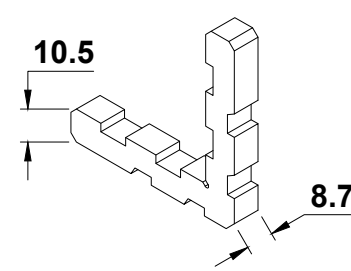
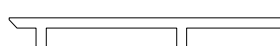
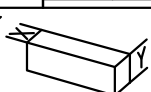
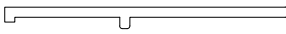
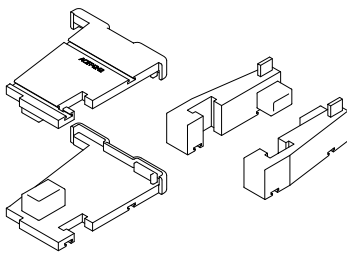
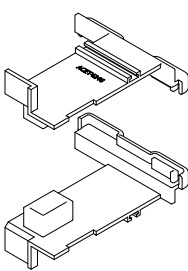
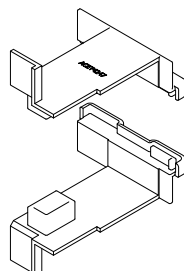
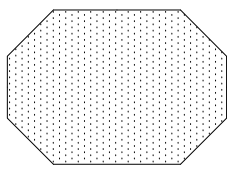
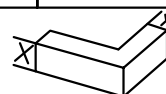
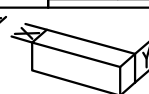
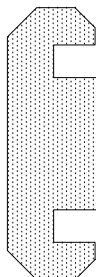
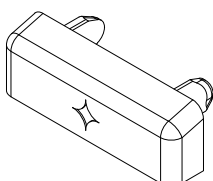
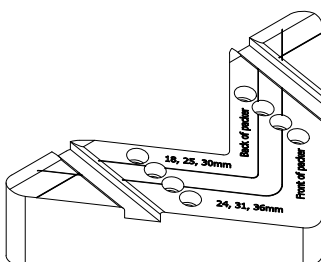
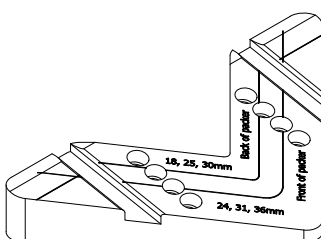
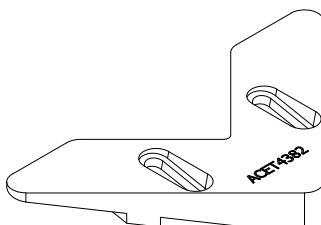
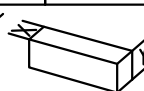
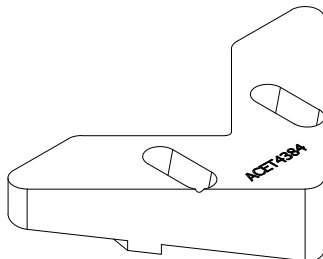
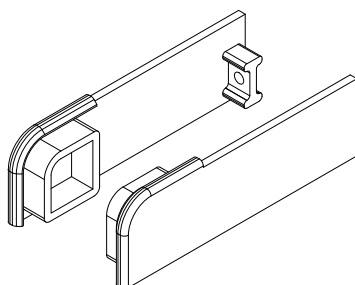
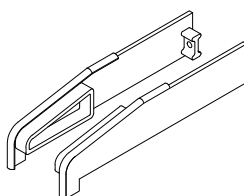
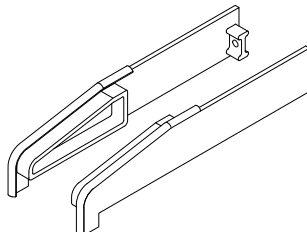
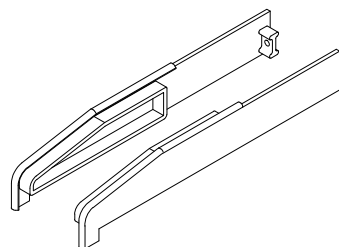
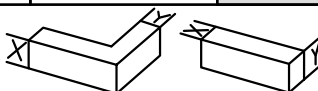
Image	Part Code	Pack	Unit	Application	Colour	
	ACET4220A Crimping Cleat	24	Pack	ETD4220	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACET4220B Crimping Cleat	24	Pack	ETD4220	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACET4221A Crimping Cleat	24	Pack	ETD4221	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACET4221B Crimping Cleat	24	Pack	ETD4221	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACET4222 Bridge Packer	12	Pack	ETD4220	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	✓
					PC	
 T-BARS ACVG66=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)		MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		WP = White BL = Black	 

Image	Part Code	Pack	Unit	Application	Colour
	ACET4224 Bridge Packer	12	Pack	ETD4221	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	ACET4242 End Cap Kit	1	kit	ETD4247 ETD495 ETD496	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	ACET4246 End Cap	10	Pairs	ETD4247 ETD490 ETD492	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	ACET4247 End Cap	10	Pairs	ETD4247 ETD410	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	ACET430 Infill Foam	1	Each	ETD432	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		WP = White BL = Black	 

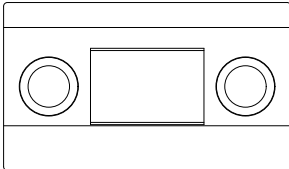
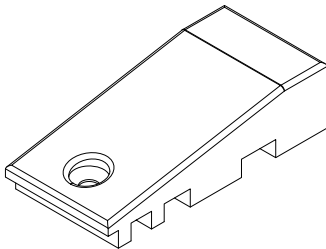
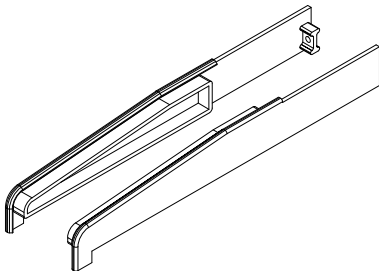
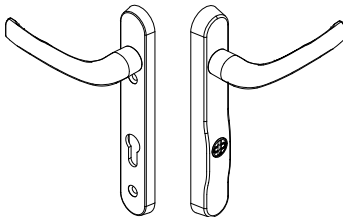
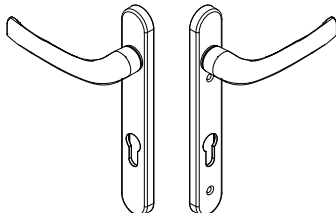
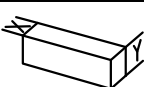
ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour				
	ACET4302 Infill Foam	1	Each	ETD4302	MF				
					SA				
					KL				
					HP				
					SSC				
					SMC				
					WP				
					BL	✓			
					PC				
	ACET432 Colour Match Drainage Cover Cap	8	Pack		MF				
					SA	✓			
					KL	✓			
					HP				
					SSC				
					SMC	✓			
					WP	✓			
					BL				
					PC				
	ACET4380 Adjustable Packer	1	Each	ETD4221	MF				
					SA				
					KL				
					HP				
					SSC				
					SMC				
					WP				
					BL				
					PC				
	ACET4381 Adjustable Packer	1	Each	ETD4220	MF				
					SA				
					KL				
					HP				
					SSC				
					SMC				
					WP				
					BL				
					PC				
	ACET4382 Adjustable Packer	1	Each	ETD4220	MF				
					SA				
					KL				
					HP				
					SSC				
					SMC				
					WP				
					BL				
					PC				
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm						 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	WP = White BL = Black	 

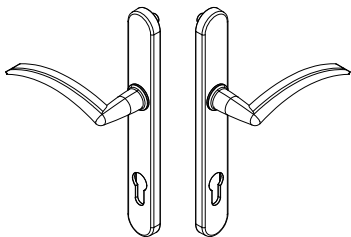
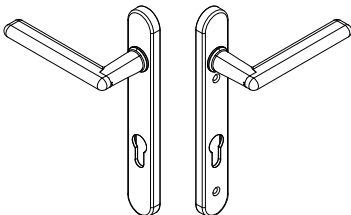
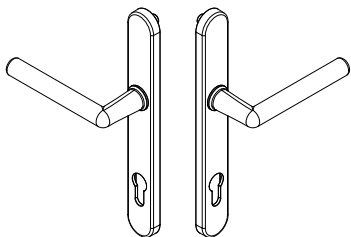
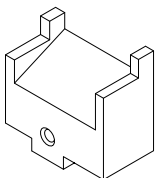
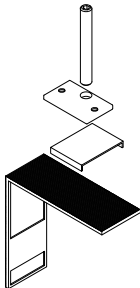
ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	ACET4384 Adjustable Packer	1	Each	ETD4221	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACET451 Cast Cill End Caps (Pair)	1	Pair	ETC451	MF	✓
					SA	
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	ACET452 Cast Cill End Caps (Pair)	1	Pair	ETC452	MF	✓
					SA	
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	ACET457 Cast Cill End Caps (Pair)	1	Pair	ETC457	MF	✓
					SA	
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	ACET458 Cast Cill End Caps (Pair)	1	Pair	ETC458	MF	✓
					SA	
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm  Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		WP = White BL = Black			

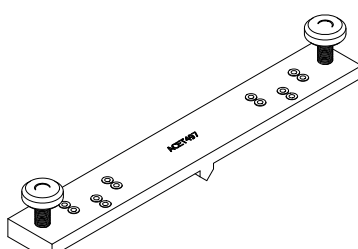
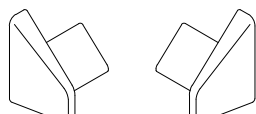
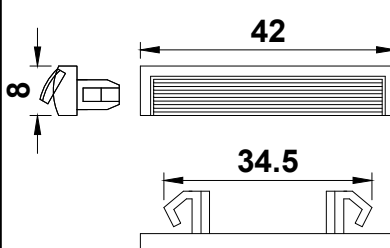
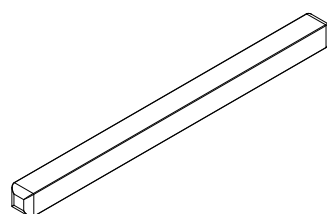
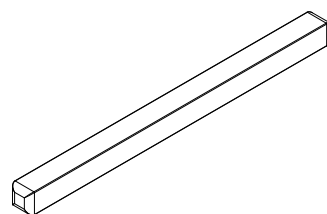
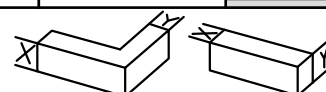
ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	ACET468 Single Door Keep	1	Each	ETD410	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACET475 Run Up Blocks	2	Pack	ETD410	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	ACET479N Cast Cill End Caps (Pair)	1	Pair	ETC479	MF	✓
					SA	
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	ACET480 PAS 24 Lever / Lever Handle	1	Pair		MF	
					SA	
					KL	✓
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	✓
	ACET484 Standard Lever / Lever Handle	1	Pair		MF	
					SA	
					KL	✓
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	✓
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		WP = White BL = Black	 	

ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour		
	ACET486 Swept Lever / Lever Handle	1	Pair		MF		
					SA		
					KL	✓	
					HP		
					SSC		
					SMC		
					WP	✓	
					BL	✓	
					PC	✓	
	ACET487 Oval Lever / Lever Handle	1	Pair		MF		
					SA		
					KL	✓	
					HP		
					SSC		
					SMC		
					WP	✓	
					BL	✓	
					PC		
	ACET488 Round Lever / Lever Handle	1	Pair		MF		
					SA		
					KL	✓	
					HP		
					SSC		
					SMC		
					WP	✓	
					BL	✓	
					PC	✓	
	ACET4920P Punches	1	Pair	ETD4220 ETD4221	MF		
					SA		
					KL		
					HP		
					SSC		
					SMC		
					WP		
					BL		
					PC		
	ACET496 Glass Adjustment Kit	1	kit	ETD4204 ETD4205 ETD424 (Not For Heritage)	MF		
					SA		
					KL		
					HP		
					SSC		
					SMC		
					WP		
					BL		
					PC		
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm  Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		WP = White BL = Black				

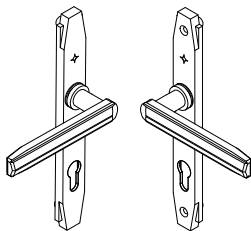
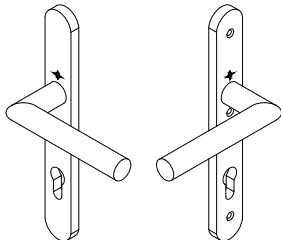
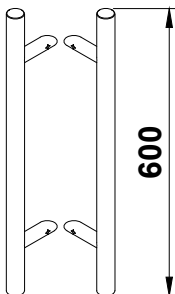
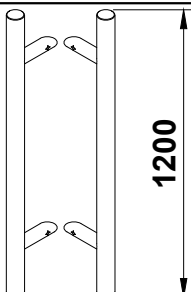
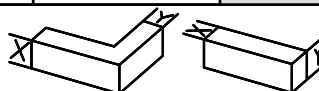
ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	ACET497 Drill Jig	1	Each	ACET496 ETD4204 ETD4205 ETD424	MF	☒
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACET572 End Cap	100	Pack	ETC572	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	☒
					BL	☒
					PC	
	ACGSL045 Drainage Cap	100	Pack		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	☒
					BL	☒
					PC	
	ACMX008 60mm Spindle	1	Each		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACMX409 150mm Spindle	1	Each		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	☒
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm  Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		WP = White BL = Black 			

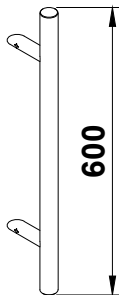
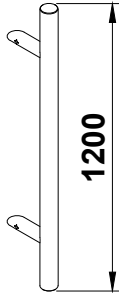
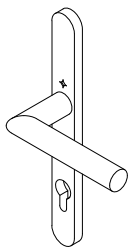
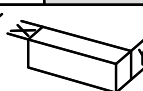
ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	ACPD6051 Nu Mail Letter Box (Also Available In Gold & Graphite)	1	Each	ETD430 ETD4301 ETD4302	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	✓
	ACPD844 35mm Backset Shootbolt Adaptor	1	Each	All Locks Excluding ACUL267 ACUL268 ACUL276 ACUL277 ACUL278	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACPD845 Shootbolt Keep	1	Each		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACPD8XX 10mm Dia Galvanised Rod ACPD846: X = 1000mm ACPD847: X = 1250mm ACPD848: X = 1500mm ACPD849: X = 2000mm	1	Each	ACPD844	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACSH038N 5 x 10mm Woolpile (Grey)	225	m		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	WP = White BL = Black	 		

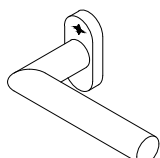
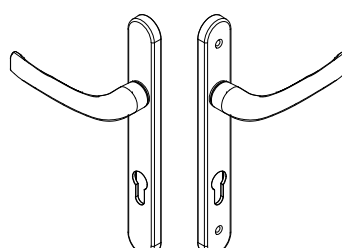
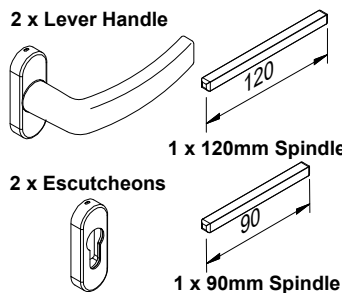
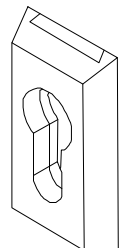
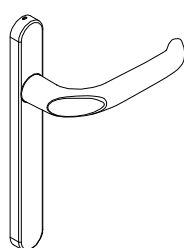
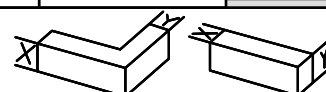
ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	ACSM001N Art Deco Lever/Lever Door Handle	1	Pair		MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	ACSM013 Stainless Steel Lever Handle on Oval Backplate (Not Handed)	1	Pair		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACSM015SS Stainless Steel Oval Escutcheon Kit Contains: 1 x External Cover Plate 1 x Internal Fixing Plate 4 x Screws	1	Each	ACSM020SS ACSM021SS ACSM040SS	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACSM020SS 600mm Stainless Steel Tubular Handle (Pair) Back to back fixing kit included.	1	Each	ACSM015SS	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACSM021SS 1200mm Stainless Steel Tubular Handle (Pair) Back to back fixing kit included.	1	Each	ACSM015SS	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome				
		WP = White BL = Black				

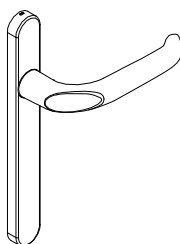
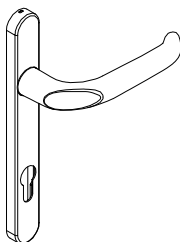
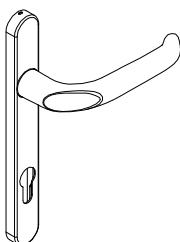
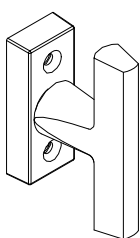
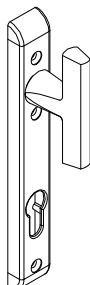
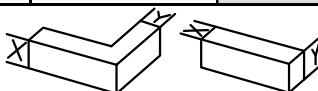
ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	ACSM030 Secret Single Fixing Kit for ACISM20SS & ACISM21SS	1	Each	ACSM020SS ACSM021SS ACSM037 ACSM038	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACSM031 Back to Back Fixing Kit for ACISM20SS & ACISM21SS	1	Each	ACSM020SS ACSM021SS	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACSM037SS 600mm Stainless Steel Tubular Handle (Single)	1	Each	ACSM015SS ACSM032	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACSM038SS 1200mm Stainless Steel Tubular Handle (Single)	1	Each	ACSM015SS ACSM032	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACSM058SS Stainless Steel Lever Handle on Long Backplate (Not Handed) Fixings and Spindle Sold Separately	1	Pair	ACSM015SS ACMX409 ACMX008 ACUN3509 WCA134	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	WP = White BL = Black	 		

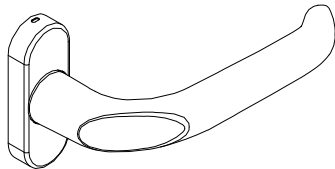
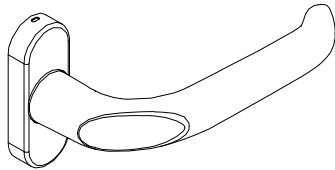
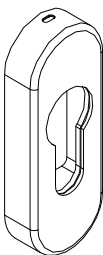
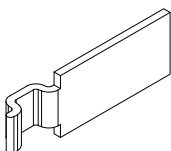
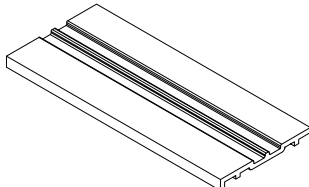
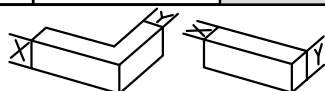
ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	ACSM059SS Stainless Steel Lever Handle on Oval Backplate (Not Handed) Fixings and Spindle Sold Separately	1	Each	ACSM015SS ACMX409 ACMX008 ACUN3509 WCA134	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACSM060 Heritage Lever/Lever Handle	1	Pair	ACW20465 ACW20466	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	ACSM095 Suitable With Lift Lever	1	set		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACSZ400 Safety Lock Plate Door Handle - External	1	Each		MF	
					SA	✓
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	
					BL	✓
					PC	✓
	ACSZ800 External Lever Handle Without Cylinder	1	Each	ACSZ801 ACSZ803 ACSZ830	MF	
					SA	✓
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	
					BL	✓
					PC	✓
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome				
		WP = White BL = Black				

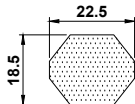
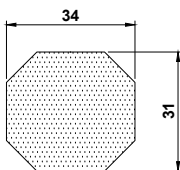
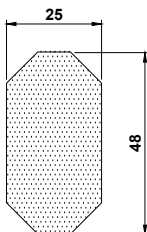
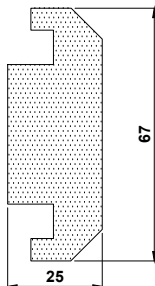
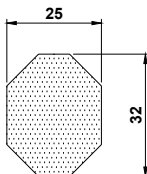
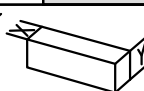
ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	ACSZ801 Internal Lever Handle Without Cylinder	1	Each	ACSZ800 ACSZ803	MF	
					SA	✓
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	
					BL	✓
					PC	✓
	ACSZ802 External Handle With Cylinder	1	Each	ACSZ800 ACSZ803	MF	
					SA	✓
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	
					BL	✓
					PC	✓
	ACSZ803 Internal Handle With Cylinder	1	Each	ACSZ55* ACSZ801 ACSZ803 ACMX309	MF	
					SA	✓
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	
					BL	✓
					PC	✓
	ACSZ827 Internal 'T' Door Handle With Short Backplate	1	Each		MF	
					SA	✓
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	
					BL	✓
					PC	✓
	ACSZ830 Internal 'T' Door Handle With Long Backplate	1	Each		MF	
					SA	✓
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	
					BL	✓
					PC	✓
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		WP = White BL = Black		

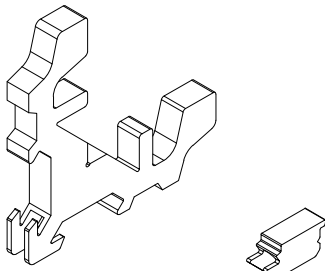
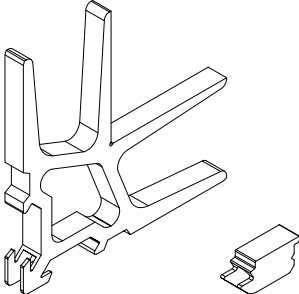
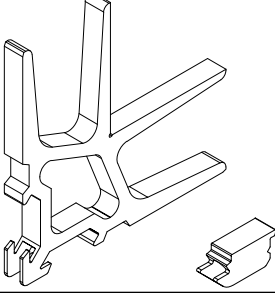
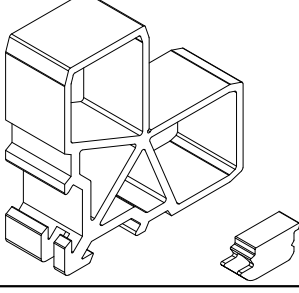
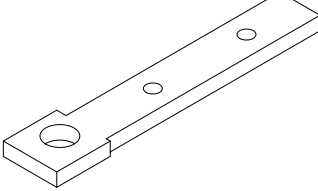
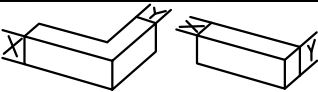
ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	ACSZ836 Internal Door Handle With Short Backplate	1	Each		MF	
					SA	✓
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	
					BL	✓
					PC	✓
	ACSZ837 External Door Handle With Short Backplate	1	Each		MF	
					SA	✓
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	
					BL	✓
					PC	✓
	ACSZ839 Escutcheon (Cylinder Cover)	1	Each		MF	
					SA	✓
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	
					BL	✓
					PC	✓
	ACUL025 Anti-Twist Clip	100	Pack		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUL065 42mm Bridge Packer	12	Pack	ETD404 ETD424 ETD430	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	✓
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		WP = White BL = Black		

ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour
	ACUL076 Infill Foam	1	Each	ETD447 ETD4221 ETD4247	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	ACUL077 Infill Foam	1	Each	ETD410	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	ACUL078 Infill Foam	1	Each	ETD4204 ETD424	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	ACUL080 Infill Foam	1	Each	ETD430 ETD4301	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	ACUL081 Infill Foam	1	Each	ETD404	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	WP = White BL = Black	 	

ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	ACUL210A Mechanical Cleat	24	Pack	ETD402 ETD410	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUL210B Mechanical Cleat	24	Pack	ETD410	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUL224 Mechanical Cleat	24	Pack	ETD4204 ETD4205 ETD424	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUL225 Mechanical Cleat	24	Pack	ETD4205 ETD424	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUL242 Aluminium Finger Bolt Guide	1	Each	ACPD846 ACPD847 ACPD848	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		WP = White BL = Black		

ACCESSORIES : PHOTOS & DRAWINGS

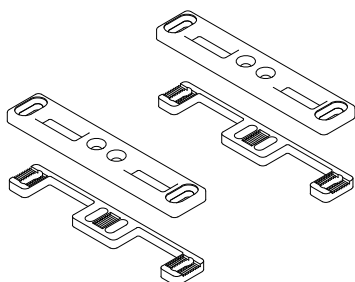
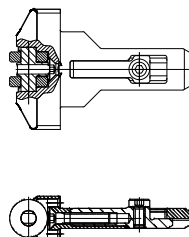
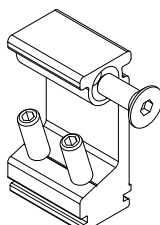
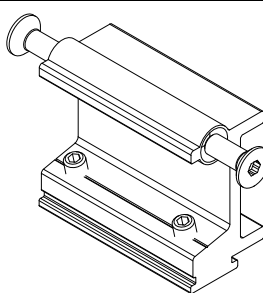
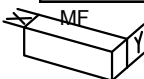
Image	Part Code	Pack	Unit	Application	Colour	
	ACUL250 Door Hinge	1	Each	ETD410 ETD4204 ETD4205 ETD424	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUL279 Double Door Keep Kit Kit contains: 2 x Keeps 2 x Base Plates	1	Kit	ACDV737 ACDV738 ETD410 ETD490 ETD492 ETD497	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUL291 Roller Latch	1	Each	ACUL282 ACUL283 ACUL362 ACUL363 ACUL382 ACUL383	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUL295 Low Threshold Bracket	1	Pair	ETD490 ETD492 ETD495	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUL299 Transom/Mullion Bracket	10	Pack	ETD430	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	WP = White BL = Black	 MF	 MF	

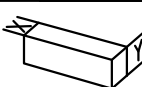
Image	Part Code	Pack	Unit	Application	Colour																										
92 576 652 1698 Left Hand Open Out Right Hand Open In 35 14.5 16	ACUL267 Lift Lever Handle Lock with Left Hand Keep	1	Pack	ACDV251 ACDV737 ACDV738 ACET480 ACET484 ACET486 ACET487 ACSM015SS ACSM040SS	<table><tr><td>MF</td><td>✓</td></tr><tr><td>SA</td><td></td></tr><tr><td>KL</td><td></td></tr><tr><td>HP</td><td></td></tr><tr><td>SSC</td><td></td></tr><tr><td>SMC</td><td></td></tr><tr><td>W</td><td></td></tr><tr><td>Z</td><td></td></tr><tr><td>PC</td><td></td></tr></table>	MF	✓	SA		KL		HP		SSC		SMC		W		Z		PC									
	MF	✓																													
	SA																														
	KL																														
	HP																														
	SSC																														
	SMC																														
	W																														
	Z																														
	PC																														
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HP	= Special Colour																														
SSC	= Smooth Satin Chrome																														
SMC	= Smokey Chrome																														
PC	= Polished Chrome																														

Image	Part Code	Pack	Unit	Application	Colour																										
	ACUL268 Lift Lever Handle Lock with Right Hand Keep Kit includes: • 1 x Lift Level Handle Lock • 1 x Right Hand Full Height Keep Viewed Externally Left Hand Open In Right Hand Open Out 	1	Pack	ACDV251 ACDV737 ACDV738 ACET480 ACET484 ACET486 ACET487 ACSM015SS ACSM040SS	<table><tr><td>MF</td><td>☒</td></tr><tr><td>SA</td><td>☐</td></tr><tr><td>KL</td><td>☐</td></tr><tr><td>HP</td><td>☐</td></tr><tr><td>SSC</td><td>☐</td></tr><tr><td>SMC</td><td>☐</td></tr><tr><td>W</td><td>☐</td></tr><tr><td>Z</td><td>☐</td></tr><tr><td>PC</td><td>☐</td></tr></table>	MF	☒	SA	☐	KL	☐	HP	☐	SSC	☐	SMC	☐	W	☐	Z	☐	PC	☐								
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ACCESSORIES : PHOTOS & DRAWINGS

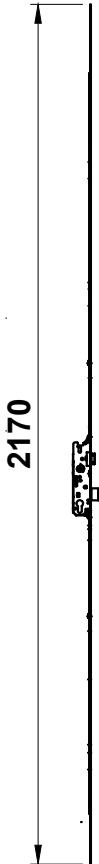
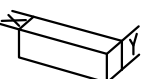
Image	Part Code	Pack	Unit	Application	Colour	
	ACUL276 Secondary Door Lock	1	Pack	ACDV251 ACDV737 ACDV738 ACET480 ACET484 ACET486 ACET487 ACSM015SS ACSM040SS ACUL279	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
					MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
					MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
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Image	Part Code	Pack	Unit	Application	Colour	
	ACUL277 Lift Lever Primary Double Door Lock Left Hand Keep Kit includes: • 1 x Primary Double Door Lock • 1 x Left Hand Full Height Keep Viewed Externally Left Hand Open Out Right Hand Open In	1	Pack	ACDV251 ACDV737 ACDV738 ACET480 ACET484 ACET486 ACET487 ACSM015SS ACSM040SS ACUL276	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
						ACUL278 Lift Lever Primary Double Door Lock Right Hand Keep Kit includes: • 1 x Primary Double Door Lock • 1 x Right Hand Full Height Keep Viewed Externally Right Hand Open Out Left Hand Open In
SA						
KL						
HP						
SSC						
SMC						
W						
Z						
PC						
		MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		WP = White BL = Black		

Image	Part Code	Pack	Unit	Application	Colour		
Short = 529 Standard = 743 Tall = 943 766 Short = 1576mm Including Plastic End Caps Standard = 1790mm Including Plastic End Caps Tall = 1990mm Including Plastic End Caps	Slam Lock Left Hand Keep	1	Pack	ACSM015SS ACSM020SS ACSM021SS	MF	✓	
					SA		
					KL		
					HP		
					SSC		
					SMC		
					W		
					Z		
					PC		
Short = 529 Standard = 743 Tall = 943 766 Short = 1576mm Including Plastic End Caps Standard = 1790mm Including Plastic End Caps Tall = 1990mm Including Plastic End Caps	ACUL360 Short Kit includes: • 1 x Short Slam Multi Point Lock • 1 x Short Left Hand full height keep • 2 x Release Magnets						
	ACUL280 Standard Kit includes: • 1 x Slam Multi Point Lock • 1 x Left Hand full height keep • 2 x Release Magnets						
	ACUL380 Tall Kit includes: • 1 x Tall Slam Multi Point Lock • 1 x Tall Left Hand full height keep • 2 x Release Magnets						
	Viewed Externally						
	Left Hand Open Out Right Hand Open In						
	16 20 35 14.5						

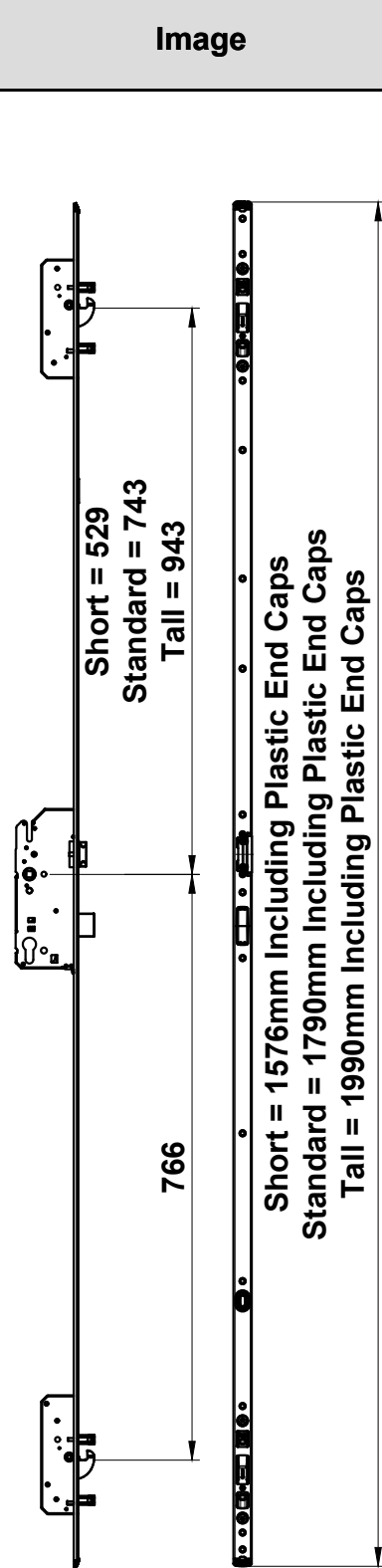
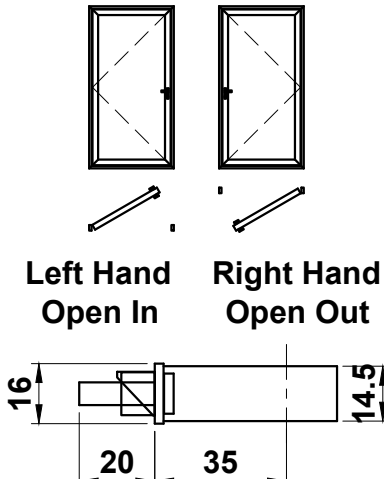
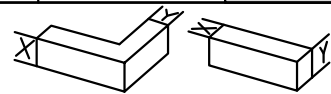
Image	Part Code	Pack	Unit	Application	Colour	
	Slam Lock Right Hand Keep	1	Pack	ACSM015SS ACSM020SS ACSM021SS	MF	✓
	ACUL361 Short Kit includes: • 1 x Short Slam Multi Point Lock • 1 x Short Right Hand full height keep • 2 x Release Magnets ACUL281 Standard Kit includes: • 1 x Slam Multi Point Lock • 1 x Right Hand full height Keep • 2 x Release Magnets ACUL381 Tall Kit includes: • 1 x Tall Slam Multi Point Lock • 1 x Tall Right Hand full height keep • 2 x Release Magnets Viewed Externally  Left Hand Open In Right Hand Open Out				SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm  Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	WP = White BL = Black				

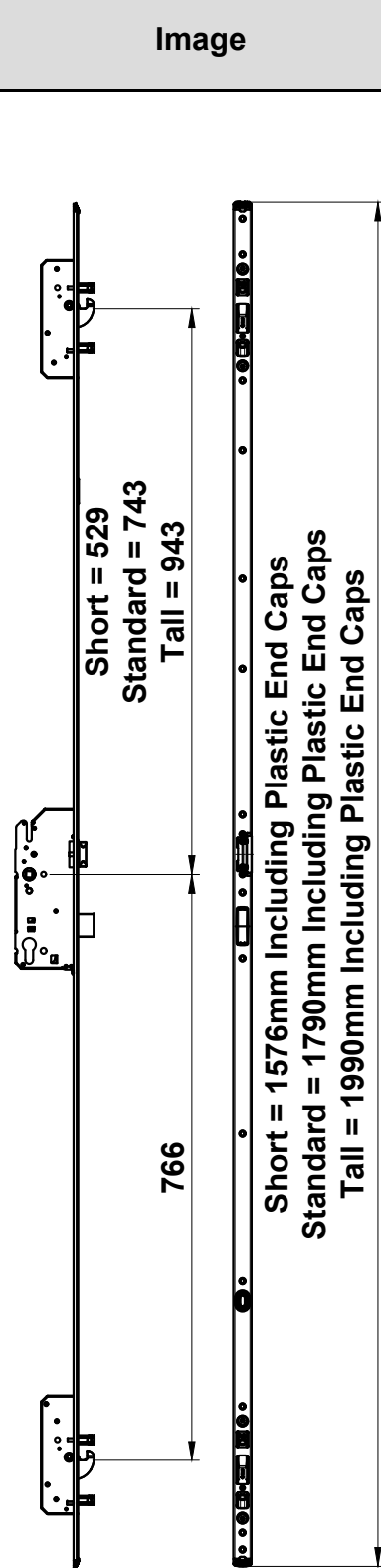
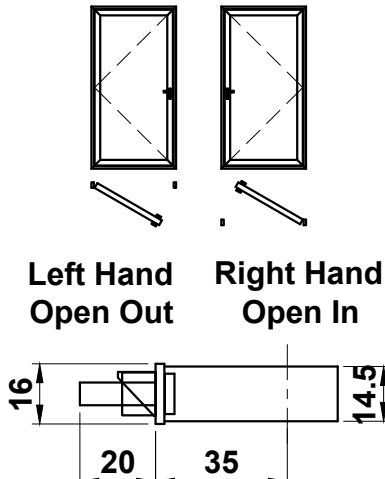
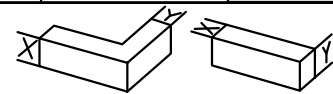
Image	Part Code	Pack	Unit	Application	Colour																		
	Key Wind Left Hand Keep ACUL362 Short Kit includes: • 1 x Short key wind multi point lock • 1 x Short Left Hand full height keep ACUL282 Standard Kit includes: • 1 x Keywind Multi Point Lock • 1 x Left Hand full height Keep ACUL382 Tall Kit includes: • 1 x Tall key wind multi point lock • 1 x Tall Left Hand full height keep Viewed Externally  Left Hand Open Out Right Hand Open In	1	Pack	ACDV251 ACDV737 ACDV738 ACET480 ACET484 ACET486 ACET487 ACSM015SS ACSM040SS	<table><tr><td>MF</td><td>✓</td></tr><tr><td>SA</td><td></td></tr><tr><td>KL</td><td></td></tr><tr><td>HP</td><td></td></tr><tr><td>SSC</td><td></td></tr><tr><td>SMC</td><td></td></tr><tr><td>W</td><td></td></tr><tr><td>Z</td><td></td></tr><tr><td>PC</td><td></td></tr></table>	MF	✓	SA		KL		HP		SSC		SMC		W		Z		PC	
	MF	✓																					
SA																							
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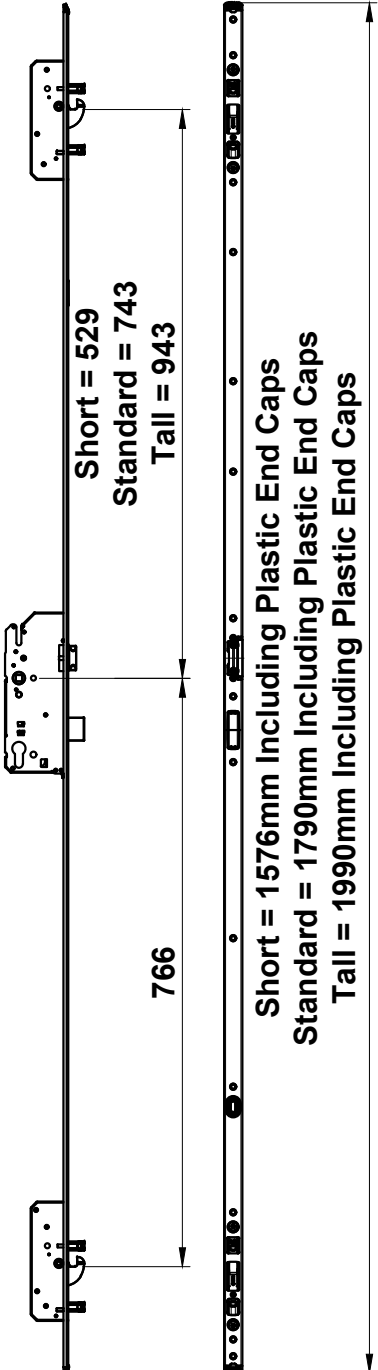
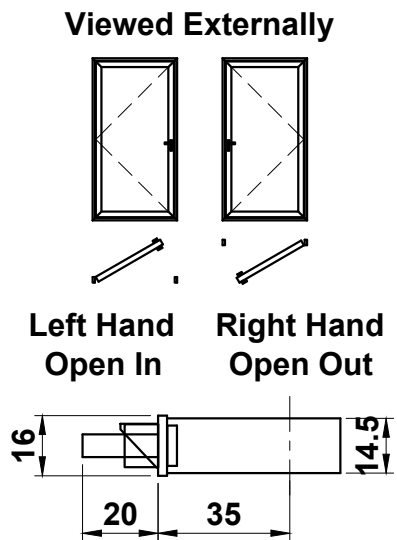
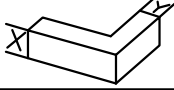
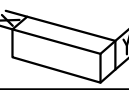
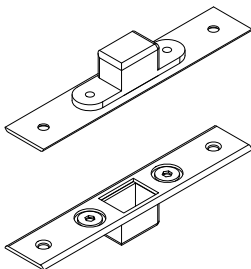
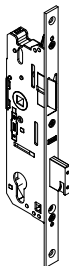
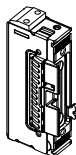
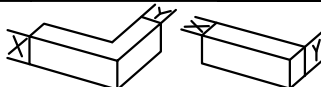
Image	Part Code	Pack	Unit	Application	Colour																									
	Key Wind Right Hand Keep ACUL363 Short Kit includes: • 1 x Short key wind multi point lock • 1 x Short Right Hand full height keep ACUL283 Standard Kit includes: • 1 x Lift Lever Multi Point Lock • 1 x Right Hand full height Keep ACUL383 Tall Kit includes: • 1 x Tall key wind multi point lock • 1 x Tall Right Hand full height keep Viewed Externally  Left Hand Open In Right Hand Open Out	1	Pack	ACDV251 ACDV737 ACDV738 ACET480 ACET484 ACET486 ACET487 ACSM015SS ACSM040SS	<table><tr><td>MF</td><td>✓</td></tr><tr><td>SA</td><td></td></tr><tr><td>KL</td><td></td></tr><tr><td>HP</td><td></td></tr><tr><td>SSC</td><td></td></tr><tr><td>SMC</td><td></td></tr><tr><td>W</td><td></td></tr><tr><td>Z</td><td></td></tr><tr><td>PC</td><td></td></tr></table>	MF	✓	SA		KL		HP		SSC		SMC		W		Z		PC								
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	MF				☒																		
	SA				☐																		
	KL				☐																		
	HP				☐																		
	SSC				☐																		
	SMC				☐																		
	W				☐																		
	Z				☐																		
	PC				☐																		
ACUL377 Short Kit includes: • 1 x Lift Lever Lock • 1 x Left Hand Full Height Keep																							
ACUL272 Standard Kit includes: • 1 x Lift Lever Lock • 1 x Left Hand Full Height Keep																							
ACUL374 Tall Kit includes: • 1 x Lift Lever Lock • 1 x Left Hand Full Height Keep																							
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Short = 529 Standard = 743 Tall = 943 766 Short = 1576mm Including Plastic End Caps Standard = 1790mm Including Plastic End Caps Tall = 1990mm Including Plastic End Caps Viewed Externally Left Hand Open In Right Hand Open Out 16 20 35 14.5	Lift Lever Right Hand Keep ACUL378 Short Kit includes: • 1 x Lift Lever Lock • 1 x Right Hand Full Height Keep ACUL273 Standard Kit includes: • 1 x Lift Lever Lock • 1 x Right Hand Full Height Keep ACUL375 Tall Kit includes: • 1 x Lift Lever Lock • 1 x Right Hand Full Height Keep	1	Pack	ACDV251 ACET480 ACET484 ACET486 ACET487 ACUL276	<table><tr><td>MF</td><td>✓</td></tr><tr><td>SA</td><td></td></tr><tr><td>KL</td><td></td></tr><tr><td>HP</td><td></td></tr><tr><td>SSC</td><td></td></tr><tr><td>SMC</td><td></td></tr><tr><td>W</td><td></td></tr><tr><td>Z</td><td></td></tr><tr><td>PC</td><td></td></tr></table>	MF	✓	SA		KL		HP		SSC		SMC		W		Z		PC	
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ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
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					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUL416 Center Keep	1	Each	ACUL460 ETD410	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUL417 Center Keep	1	Each	ACUL460 ETD410	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUL460 Single Point Lock	1	Each	ETD424 ETD4204 ETD4205	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUL465 12V DC Fail Safe Electric Strike	1	Each	ACUL283 ACUL363 ACUL383 ACUL416 ACUL417 ACUL467 ETD410	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		WP = White BL = Black		

ACCESSORIES : PHOTOS & DRAWINGS

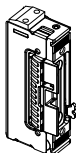
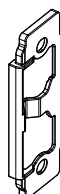
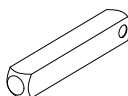
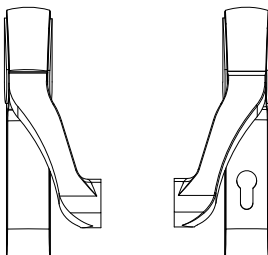
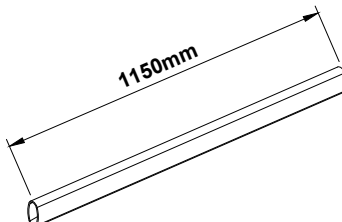
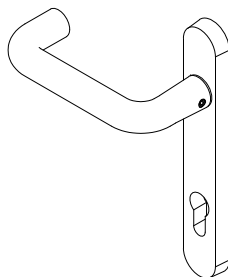
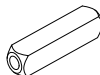
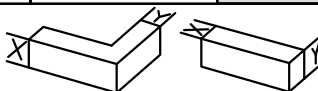
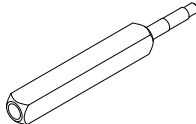
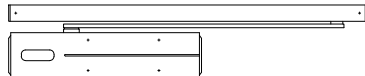
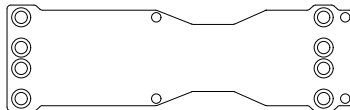
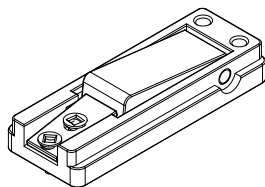
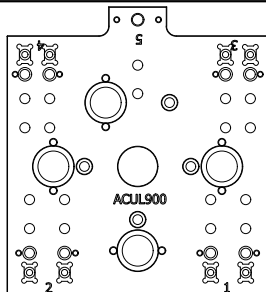
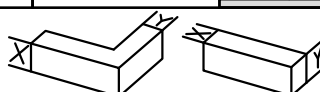
Image	Part Code	Pack	Unit	Application	Colour	
	ACUL466 12V DC Fail Secure Electric Strike	1	Each	ACUL283 ACUL363 ACUL383 ACUL416 ACUL417 ACUL467 ETD410	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
						ACUL467 Latch Slide For Electric Strike
SA						
KL						
HP						
SSC						
SMC						
WP						
BL						
PC						
	ACUL469 9 x 60mm Spindle For ACUL473 Panic Bar	1	Each			
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
SA						
KL						
HP						
SSC						
SMC						
WP						
BL						
PC						
 ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm 	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome					
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	

Image	Part Code	Pack	Unit	Application	Colour	
	ACUL470 Panic Bar Multipoint Lock Only compatible with free movement cam cylinder Viewed Externally Left Hand Open Out 	1	Pack	ACUL417 ACUL472 ACUL473 ACUL474 ACUL475 ACUL476 ACUL477	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
						ACUL471 Panic Bar Multipoint Lock Only compatible with free movement cam cylinder Viewed Externally Right Hand Open Out
SA						
KL						
HP						
SSC						
SMC						
W						
Z						
PC						
 	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	WP = White BL = Black				

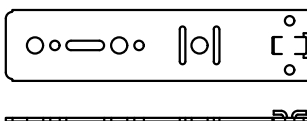
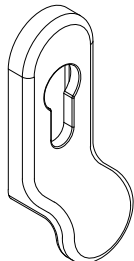
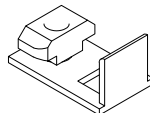
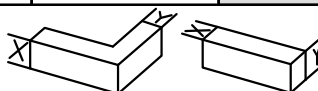
ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	ACUL472 Door Keep	1	Each	ACUL470 ACUL471 ETD410	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUL473 Panic Bar Arms	1	set	ACUL470 ACUL471 ETD4205	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	✓
					PC	
	ACUL474 Green Panic Bar	1	Each	ACUL473	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUL475 Silver External Lever Handle for ACUL473 Panic Bar	1	Each	ACUL470 ACUL471 ETD4205	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUL476 External Panic Bar Split Spindle - 9 x 39mm	1	Each	ACUL470 ACUL471 ETD4205	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		WP = White BL = Black		

ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	ACUL477 Internal Panic Bar Split Spindle - 9 x 67mm	1	Each	ACUL470 ACUL471 ETD4205	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUL478 Surface Fixed Closer (Silver)	1	Each		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUL479 Mounting Plate For Surface Fixed Closer	1	Each	ACUL478	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUL480 Hold Open Device For Surface Fixed Closer	1	Each	ACUL478	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUL900 Punch Tool	1	Each	ETD402 ETD404 ETD410 ETD4204 ETD4205 ETD424	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		WP = White BL = Black		

ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	ACUL950 Drill Jig for Hinges	1	Each	ACUL250 ETD410 ETD424 ETD4204 ETD4205	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
 	ACUN23X Screw Fixing Lug B x 38mm x 2mm ACUN230: B = 160mm ACUN232: B = 240mm ACUN233: B = 280mm	100	Pack	ETC451 ETC452 ETC457 ETC458 ETC478 ETC479 ETD410 ETD412	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUN3035 Door Gasket	100	m		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	✓
					PC	
	ACUN3143 Cylinder Pull S/S Fixings:- 2 No. ACET064	1	Each		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUN3400 Shootbolt End Guide For ACDV737/8	1	Each		MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	WP = White BL = Black			

ACCESSORIES : PHOTOS & DRAWINGS

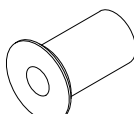
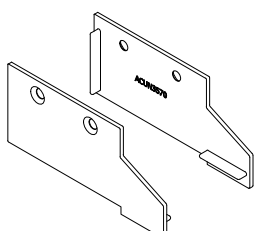
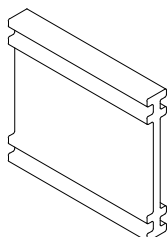
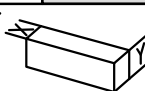
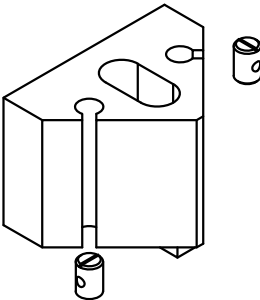
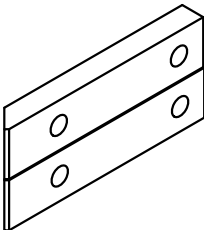
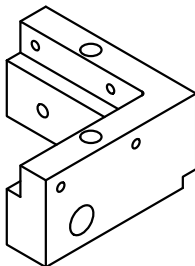
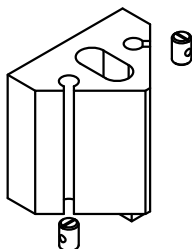
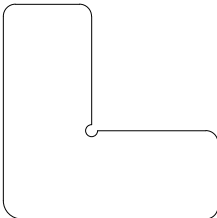
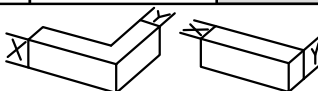
Image	Part Code	Pack	Unit	Application	Colour	
	ACUN3499 M5 Shakeproof Washer	100	Pack		MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUN3500 M6 Shakeproof Washer	100	Pack		MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUN3509 M5 Rivnut	20	Pack		MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACUN3570 UN3570 End Caps	1	Pair		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	ACUN3701 Anti-Crush Support	25	Pack		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	✓
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		WP = White BL = Black	 	

Image	Part Code	Pack	Unit	Application	Colour		
	ACET3950 Vee Block	1	Each	ETD4220	MF	✓	
					SA		
					KL		
					HP		
					SSC		
					SMC		
					WP		
					BL		
					PC		
	ACET3952 Nylon Packer	1	Each	ETD4220 ETD4221	MF	✓	
					SA		
					KL		
					HP		
					SSC		
					SMC		
					WP		
					BL		
					PC		
	ACET3957 Vee Block	1	Each	ETD4220	MF	✓	
					SA		
					KL		
					HP		
					SSC		
					SMC		
					WP		
					BL		
					PC		
	ACET3964 Vee Block	1	Each	ETD4221	MF	✓	
					SA		
					KL		
					HP		
					SSC		
					SMC		
					WP		
					BL		
					PC		
	ACVG520 Stainless Steel Chevron	100	Pack	ETD4204	MF	✓	
					SA		
					KL		
					HP		
					SSC		
					SMC		
					WP		
					BL		
					PC		
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)		MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		WP = White BL = Black		

ACCESSORIES : PHOTOS & DRAWINGS

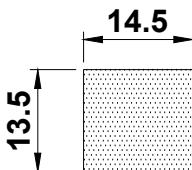
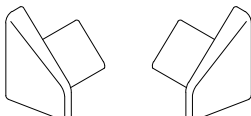
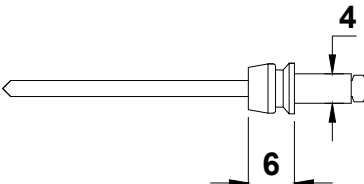
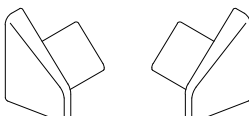
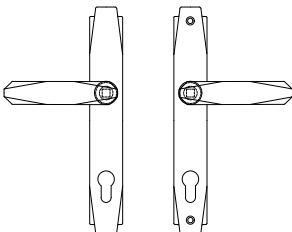
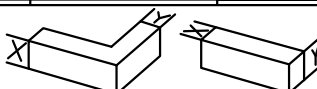
Image	Part Code	Pack	Unit	Application	Colour	
	ACVG560 Infill Foam	1	Each	ETD4220	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	✓
					PC	
	ACVL059 End Caps	1	Pair	VL72	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	ACVL061 Rivet to secure VL72	100	Pack	VL72	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACVL072 Cast End Caps	1	Pair	VL72	MF	✓
					SA	
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	ACW20062 Art Deco Lever / Lever Handle Includes Cylinder Cut Out Available in Antique Brass and Satin Nickel Plate	1	Pair	ACW20465 ACW20466	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		WP = White BL = Black			

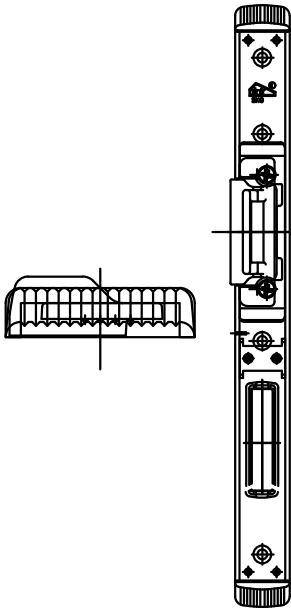
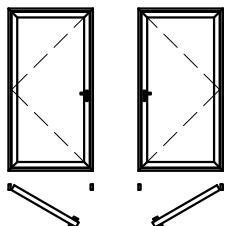
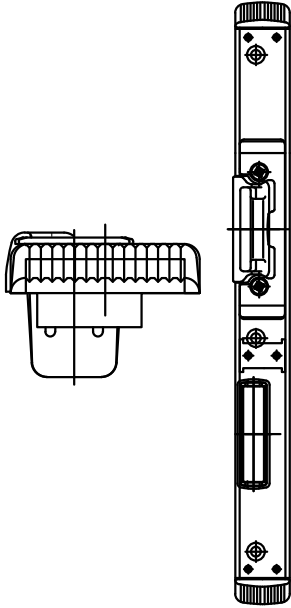
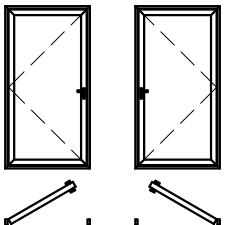
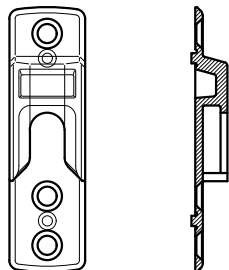
Image	Part Code	Pack	Unit	Application	Colour	
	ACW20066 L/R Open Out Centre Keep Viewed Externally  Left Hand Open Out Right Hand Open Out	1	Each	ACW20465	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
						ACW20166 L/R Open In Centre Keep Viewed Externally  Right Hand Open In Left Hand Open In
SA						
KL						
HP						
SSC						
SMC						
WP						
BL						
PC						
	ACW20367 Rollers Keep	1	Each	ACW20465		
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
					 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)

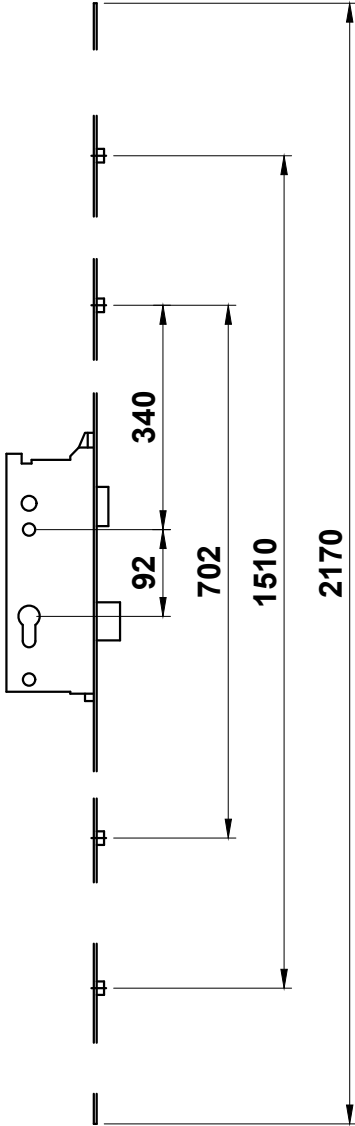
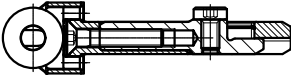
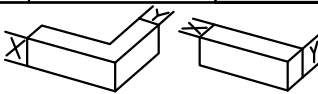
Image	Part Code	Pack	Unit	Application	Colour	
	ACW20465 Euro Cylinder Profile Open In & Out Primary Lock 65mm Set Back	1	Each	ACW20466 ETD4220 ETD4221	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACPD690 Roller Latch	1	Each	W20465	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	WP = White BL = Black			

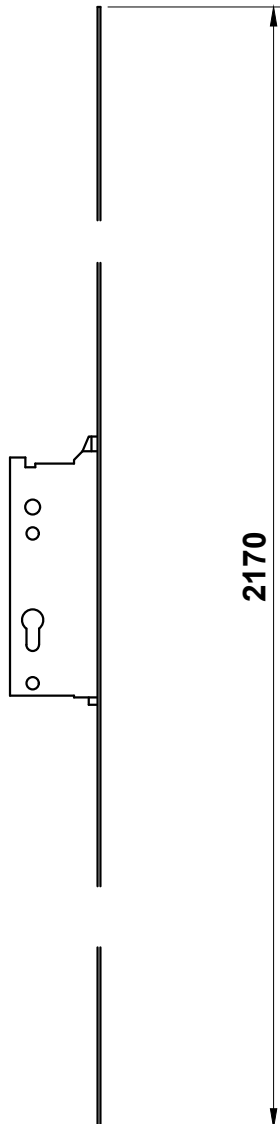
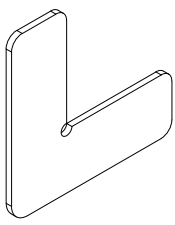
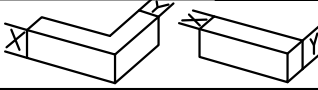
Image	Part Code	Pack	Unit	Application	Colour	
	ACW20466 Euro Cylinder Profile Open In & Out Secondary Lock 65mm Set Back	1	Each	ACW20465 ETD4220 ETD4221	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
						WCA106SSZ Stainless Steel Chevrone
SA						
KL						
HP						
SSC						
SMC						
WP						
BL						
PC						
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	WP = White BL = Black			

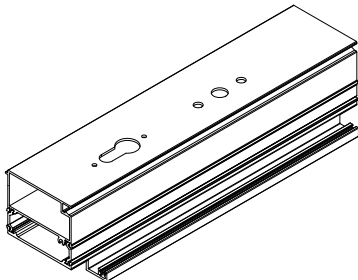
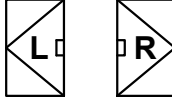
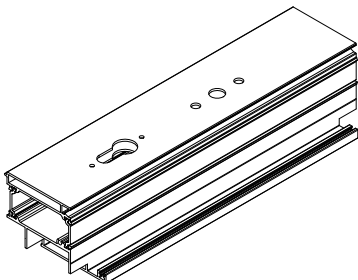
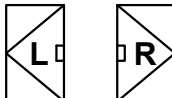
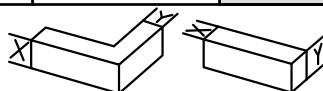
Image	Part Code	Pack	Unit	Application	Colour
	ACW4238 L/R 285mm Pre Prepared Lock Casing - Open In 	1	Each		MF ☒
					SA ☐
					KL ☒
					HP ☒
					SSC ☐
					SMC ☐
					WP ☒
					BL ☒
					PC ☐
	ACW4239 L/R 285mm Pre Prepared Lock Casing - Open Out 	1	Each		MF ☒
					SA ☐
					KL ☒
					HP ☒
					SSC ☐
					SMC ☐
					WP ☒
					BL ☒
					PC ☐
					MF ☐
					SA ☐
					KL ☐
					HP ☐
					SSC ☐
					SMC ☐
					WP ☐
					BL ☐
					PC ☐
					MF ☐
					SA ☐
					KL ☐
					HP ☐
					SSC ☐
					SMC ☐
					WP ☐
					BL ☐
					PC ☐
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome				WP = White
 Screw (Grub) BL = Black					
					

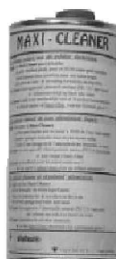
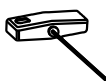
Image	Part Code	Pack	Unit	Application	Colour	
	ACMX09700 Alu. Polish	1	each		MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACMX09761 Maxi Gloss	1	each		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACMX09762 Alu. Bright	1	each		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACMX09763 Teflon Spray	1	each		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	ACMX09764 Maxi Clean	1	each		MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		WP = White BL = Black		

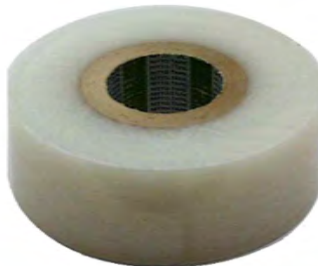
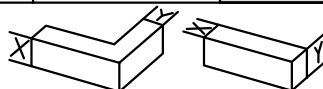
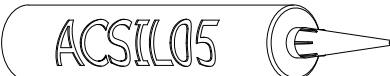
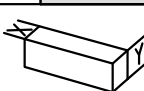
Image	Part Code	Pack	Unit	Application	Colour
	ACMX09765 Glue Cleaner De-grease and silicone remover (1 Litre).	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	ACMX09770 Roll & Wrap 100mm	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	ACMX09775 Grip Handwrap	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	ACMX09801 Protective Tape 50mm	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	ACMX09802 Protective Tape 70mm	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	WP = White BL = Black		

Image	Part Code	Pack	Unit	Application	Colour
	ACMX09803 Protective Tape 100mm	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	ACSIL04 Sealing Glue Order with suffix of KL colour (eg.ACSIL04KL005) or BL=Black/WP=White/ CL=Clear	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	ACSIL05 Rubber Sealant	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	ACSIL08 Silicon Gun	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	ACSIL013 Glue for Mitre	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	WP = White BL = Black	 	

STANDARD ACCESSORIES

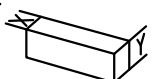
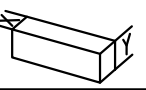
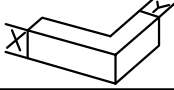
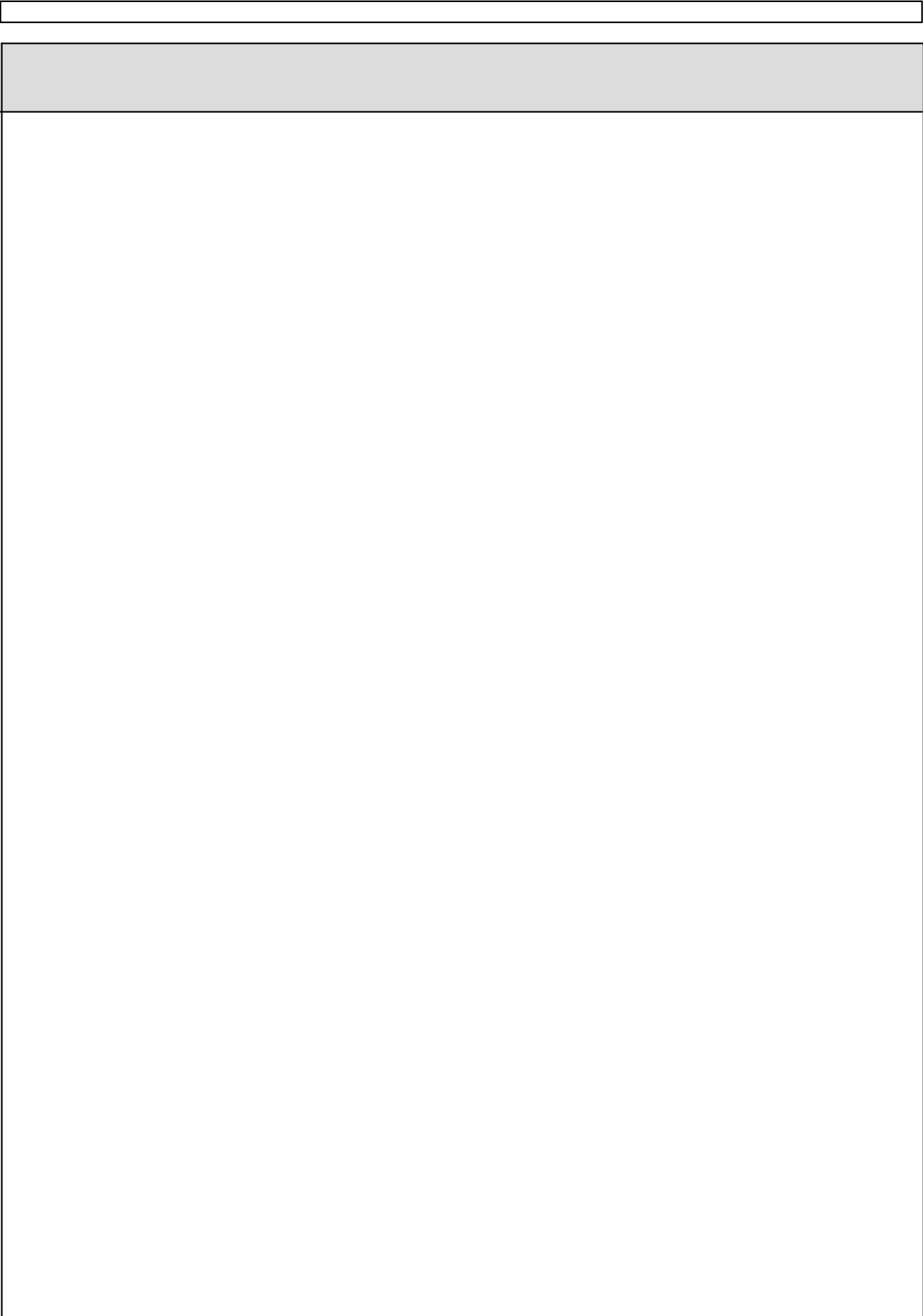
Image	Part Code	Pack	Unit	Application	Colour	
	ACSIL014 Anti-Corrosion Coating	1	each		MF	☒
					SA	☐
					KL	☐
					HP	☐
					SSC	☐
					SMC	☐
					WP	☐
					BL	☐
					PC	☐
	ACUN3900 Gasket Roller	1	each		MF	☐
					SA	☐
					KL	☐
					HP	☐
					SSC	☐
					SMC	☐
					WP	☐
					BL	☐
					PC	☐
					MF	☐
					SA	☐
					KL	☐
					HP	☐
					SSC	☐
					SMC	☐
					WP	☐
					BL	☐
					PC	☐
					MF	☐
					SA	☐
					KL	☐
					HP	☐
					SSC	☐
					SMC	☐
					WP	☐
					BL	☐
					PC	☐
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm  Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome				MF	☐
					SA	☐
					KL	☐
					HP	☐
					SSC	☐
					SMC	☐
					WP	☐
					BL	☐
					PC	☐
				 		

Image	Part Code	Pack	Unit	Application	Colour
					MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
					MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
					MF
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					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
					MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm  Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	WP = White BL = Black			

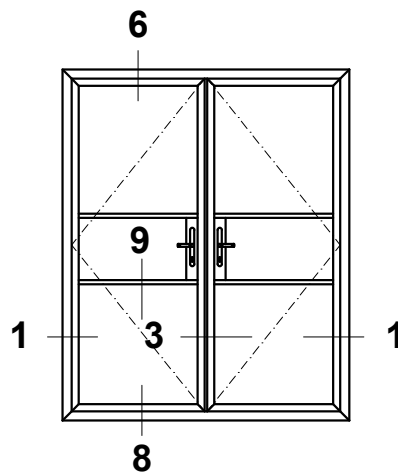
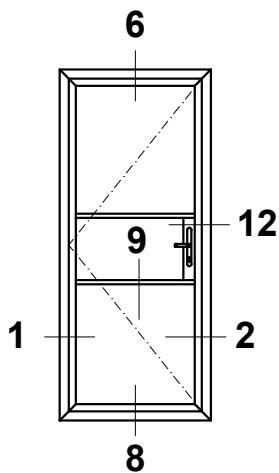
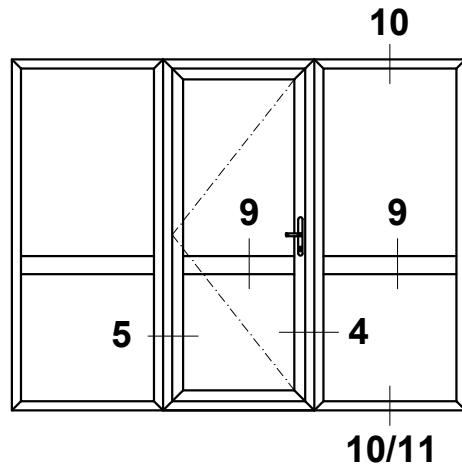
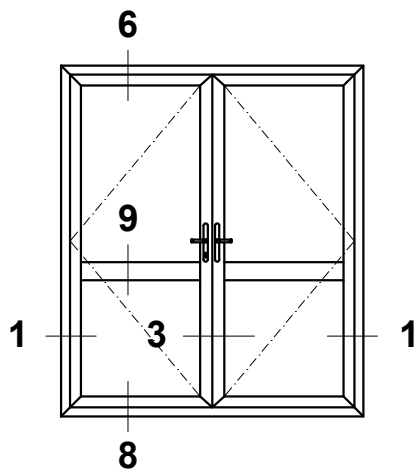
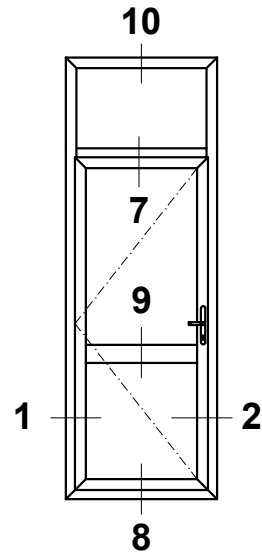
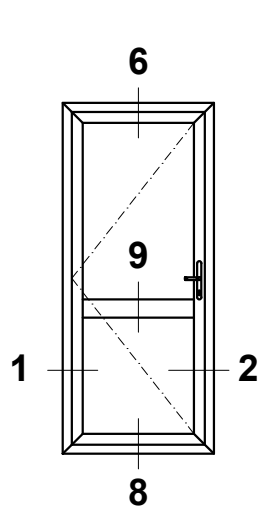
Section C

Sections

Scale Elevations

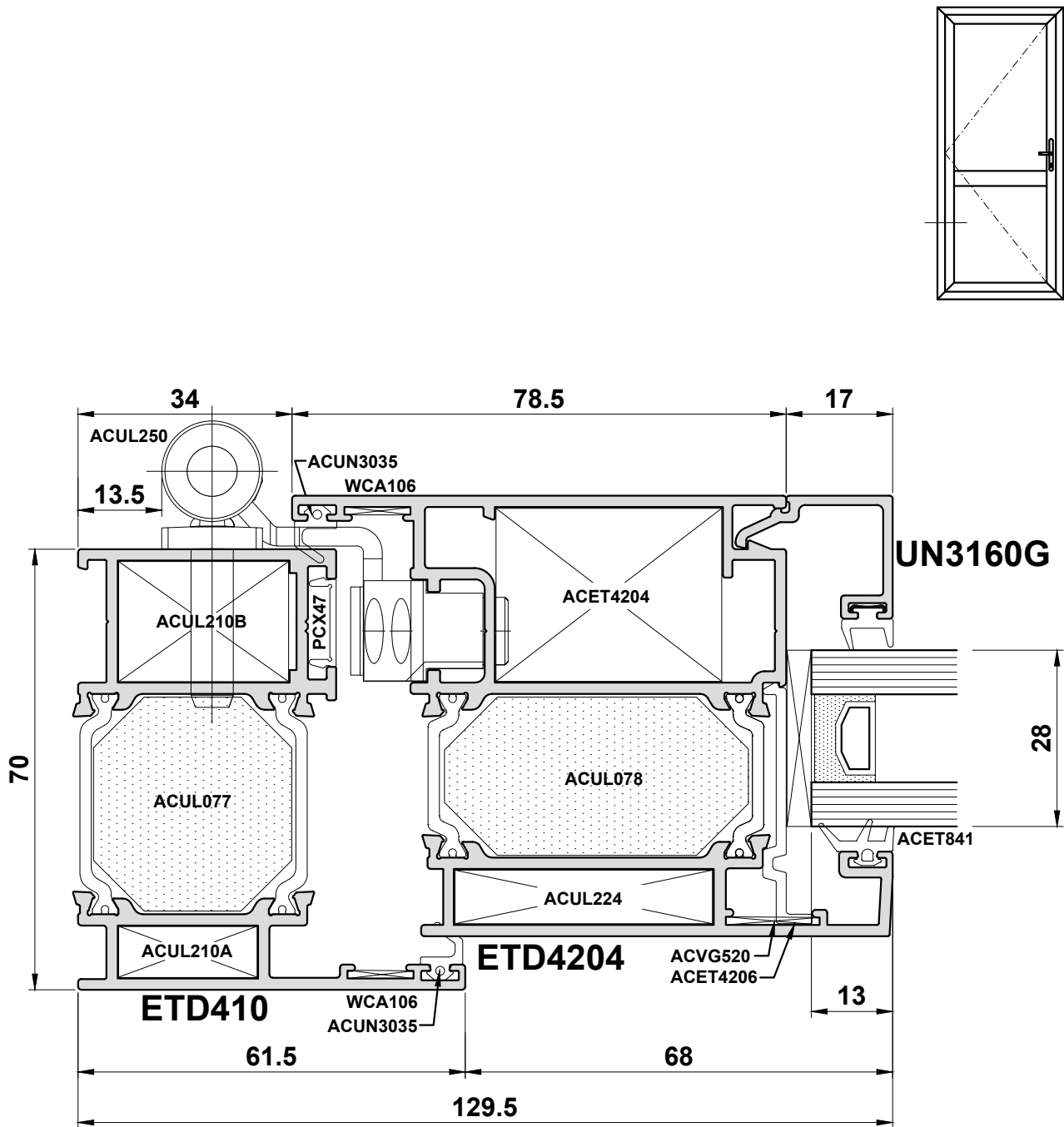


Open In - Elevations



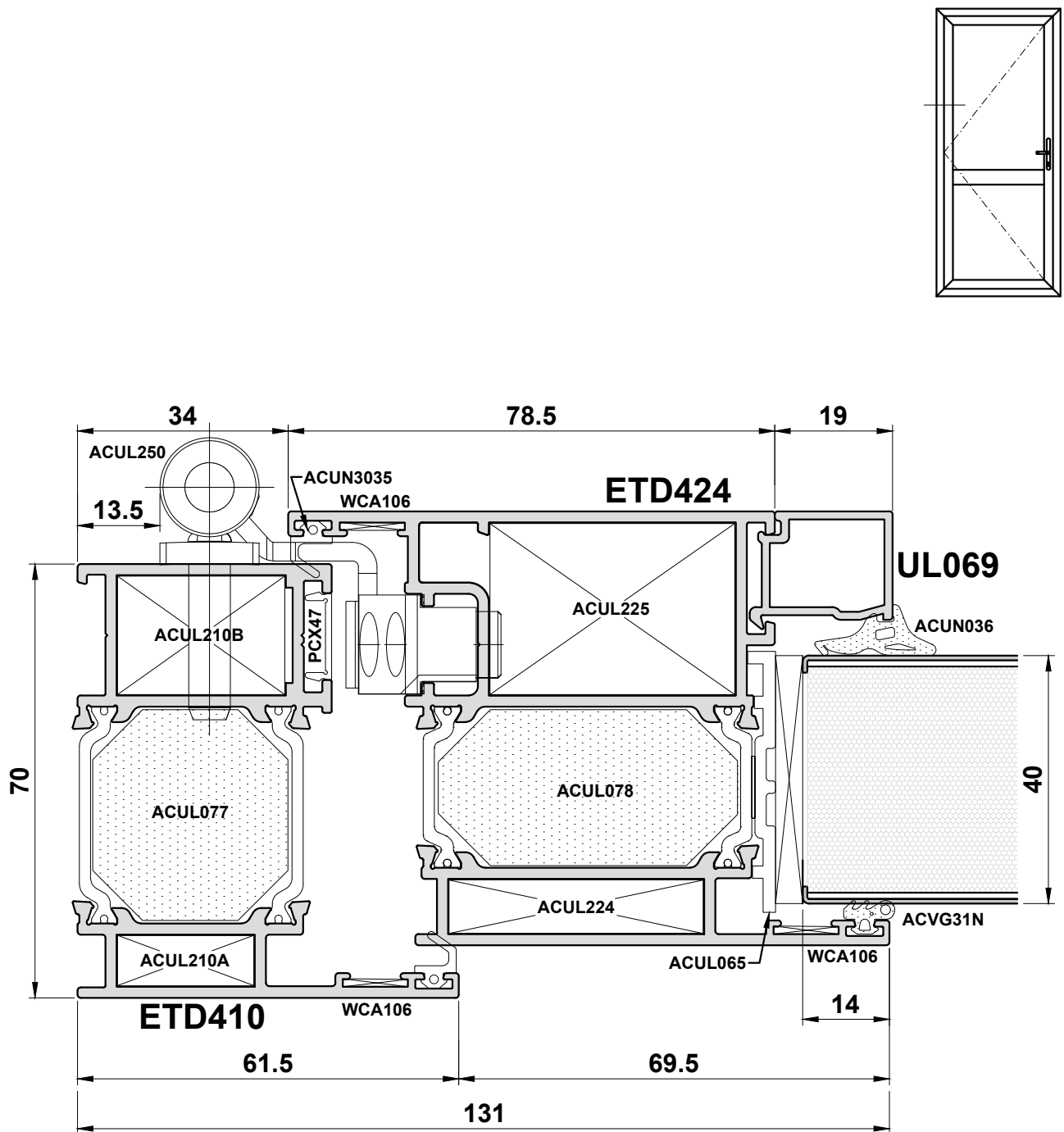
Do Not Scale From This Drawing

Open In - Detail 1a



Do Not Scale From This Drawing

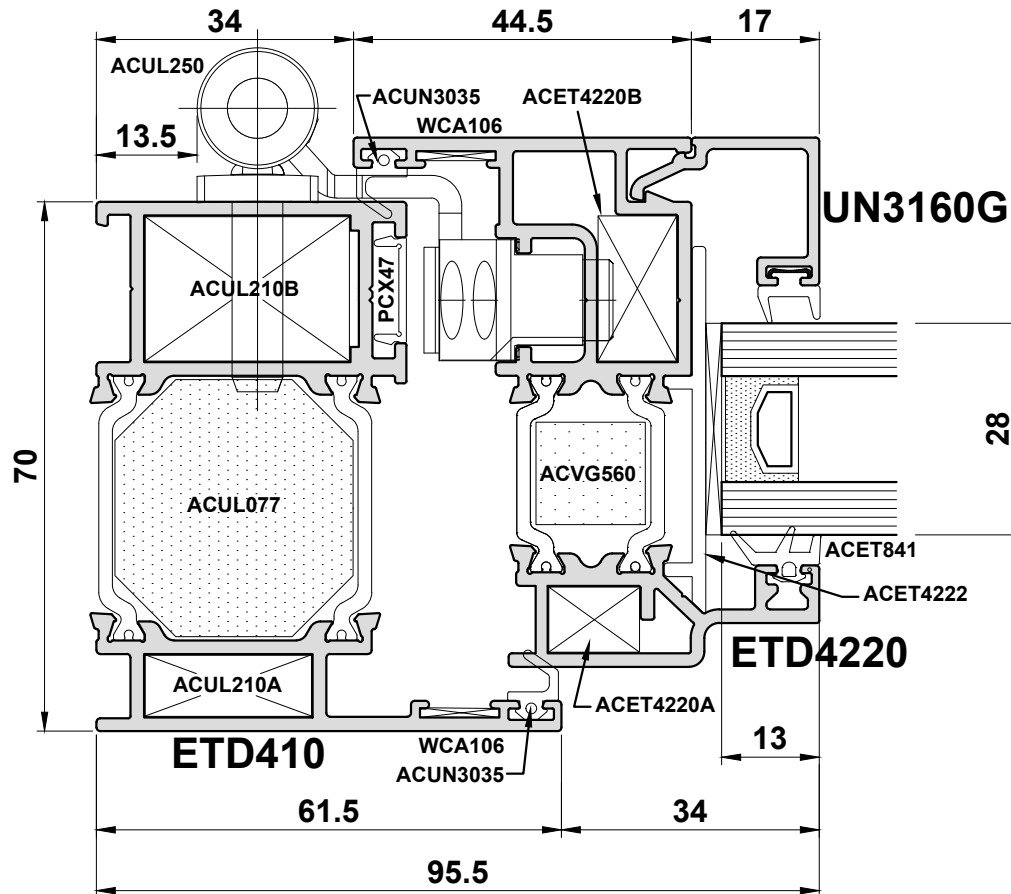
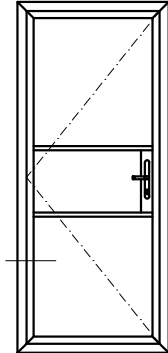
Open In - Detail 1b



Do Not Scale From This Drawing

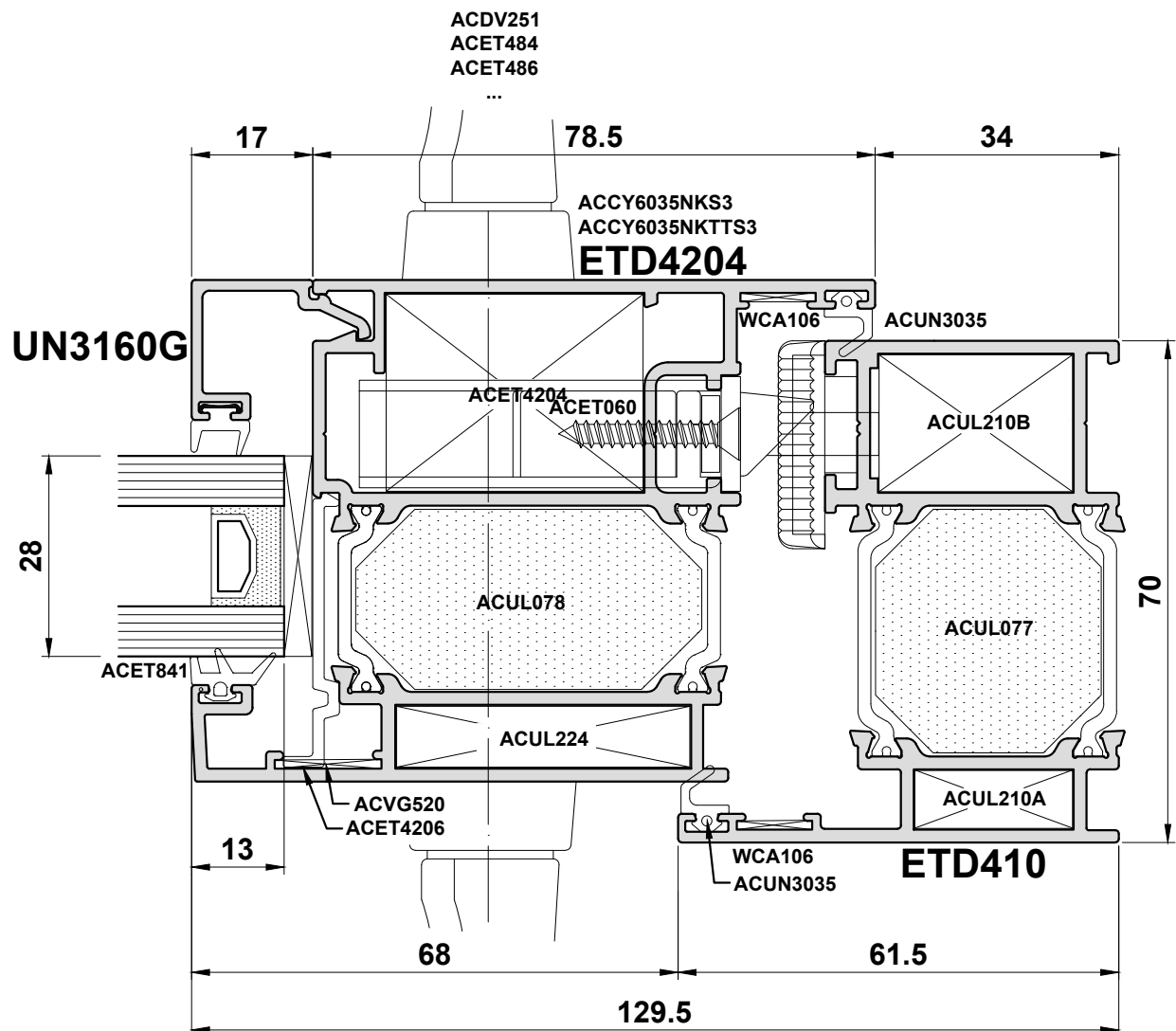
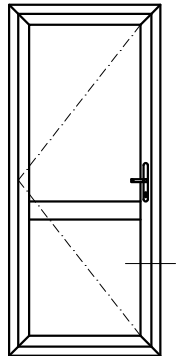
Alitherm 400 Stepped Door

Heritage Open In - Detail 1c



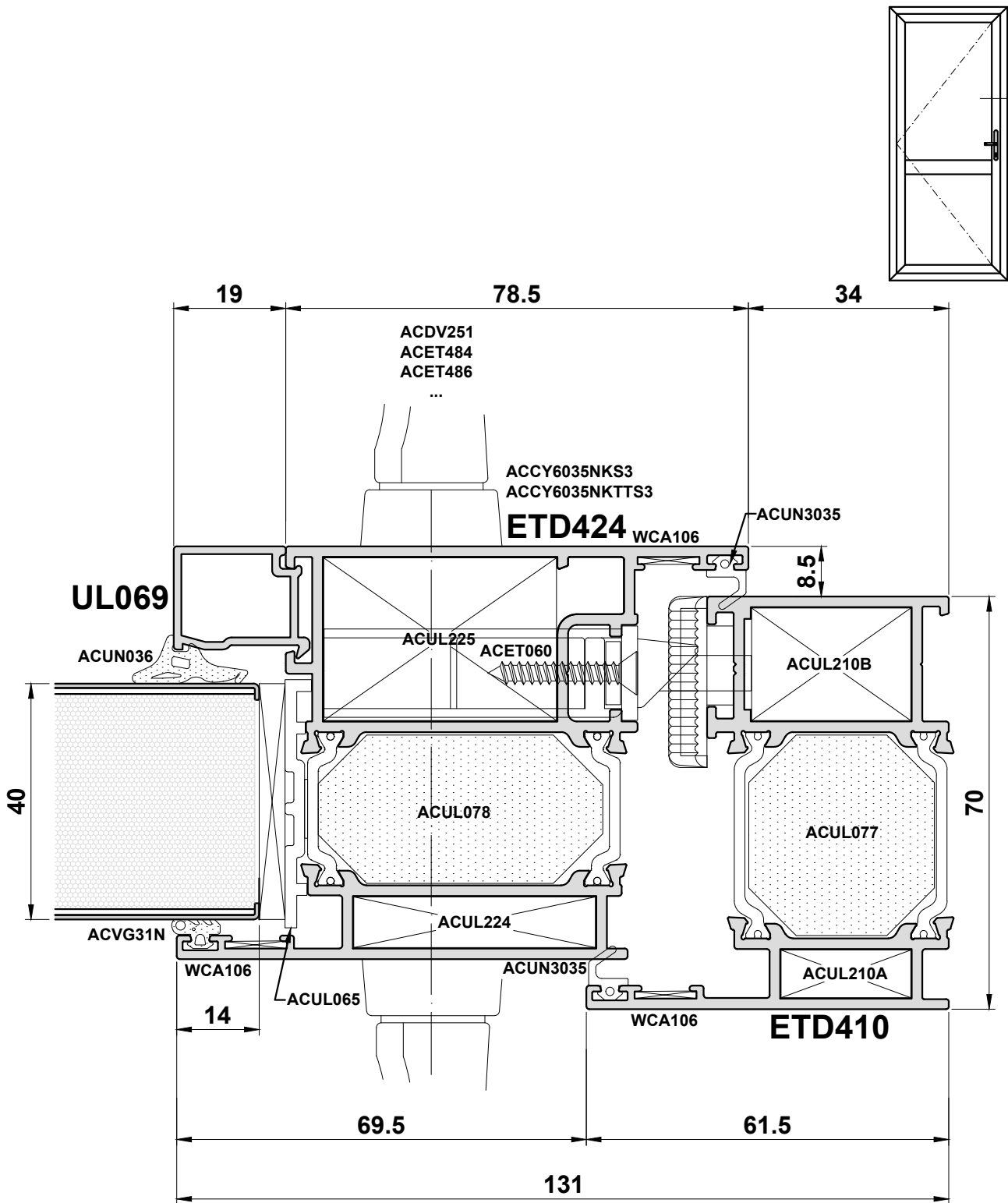
Do Not Scale From This Drawing

Open In - Detail 2a



Do Not Scale From This Drawing

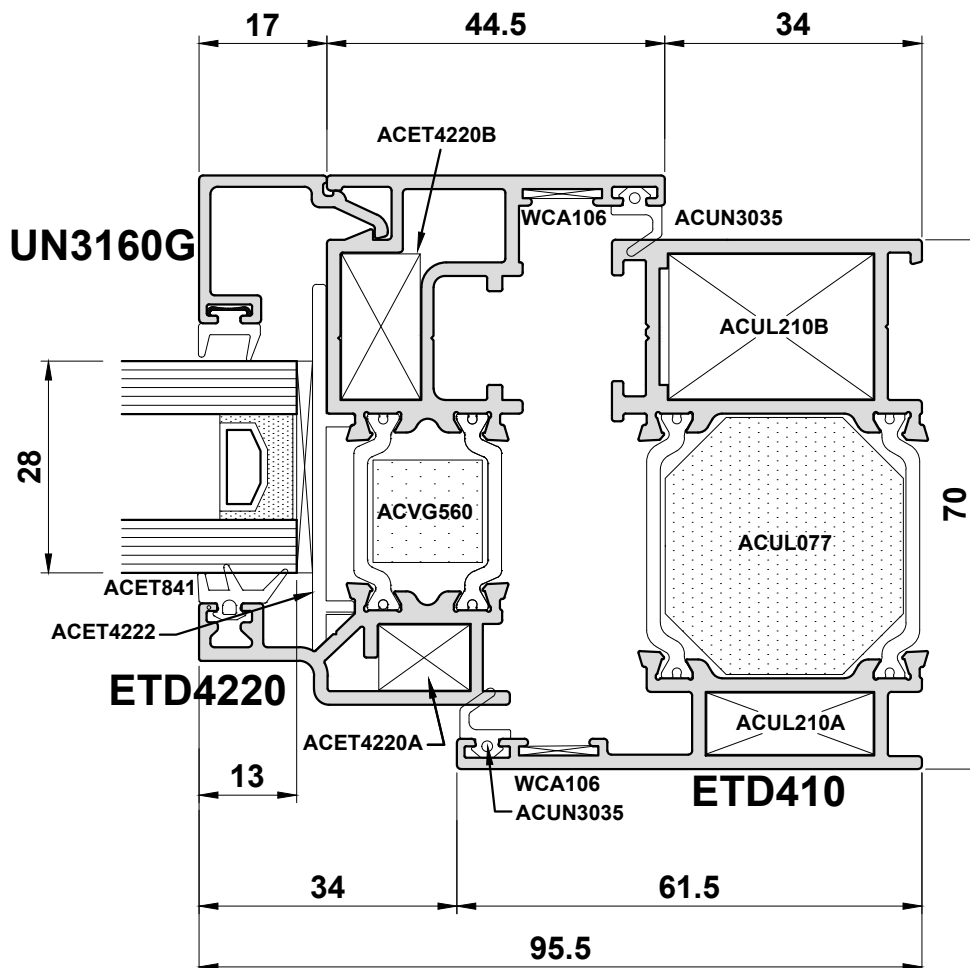
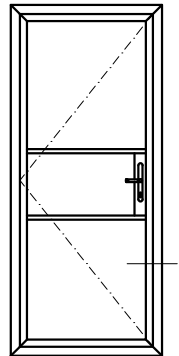
Open In - Detail 2b



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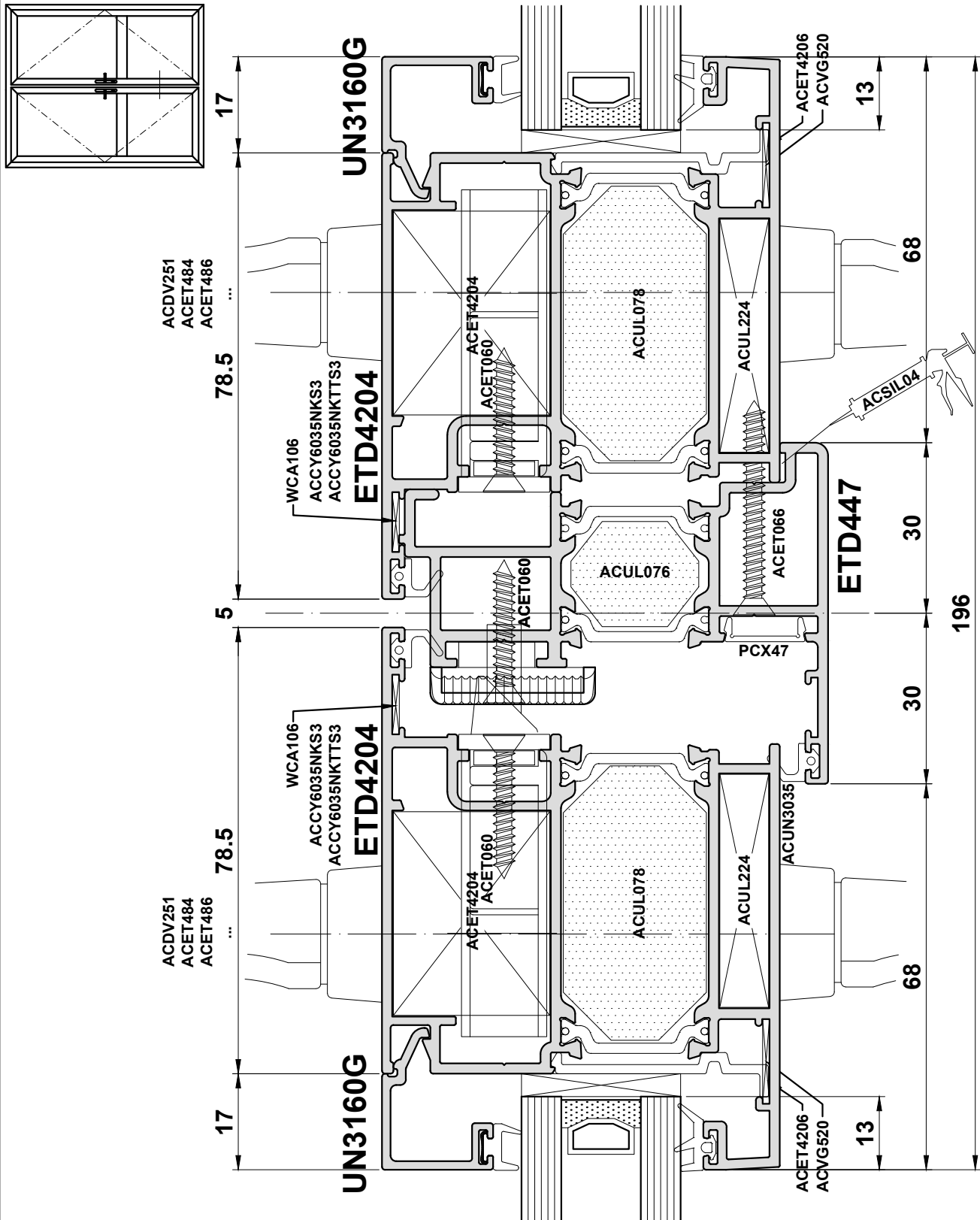
Alitherm 400 Stepped Door

Heritage Open In - Detail 2c



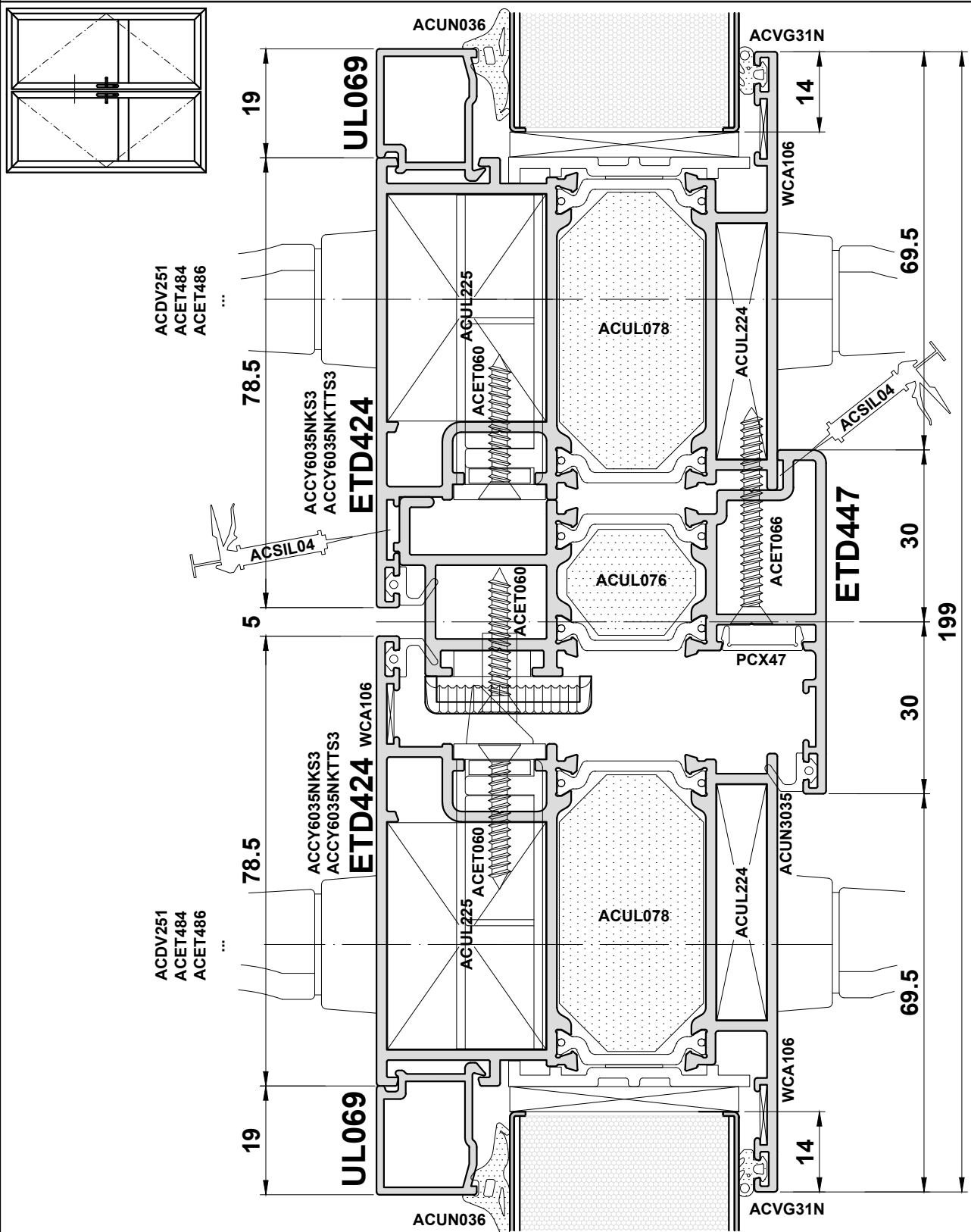
Do Not Scale From This Drawing

Open In - Detail 3a



Do Not Scale From This Drawing

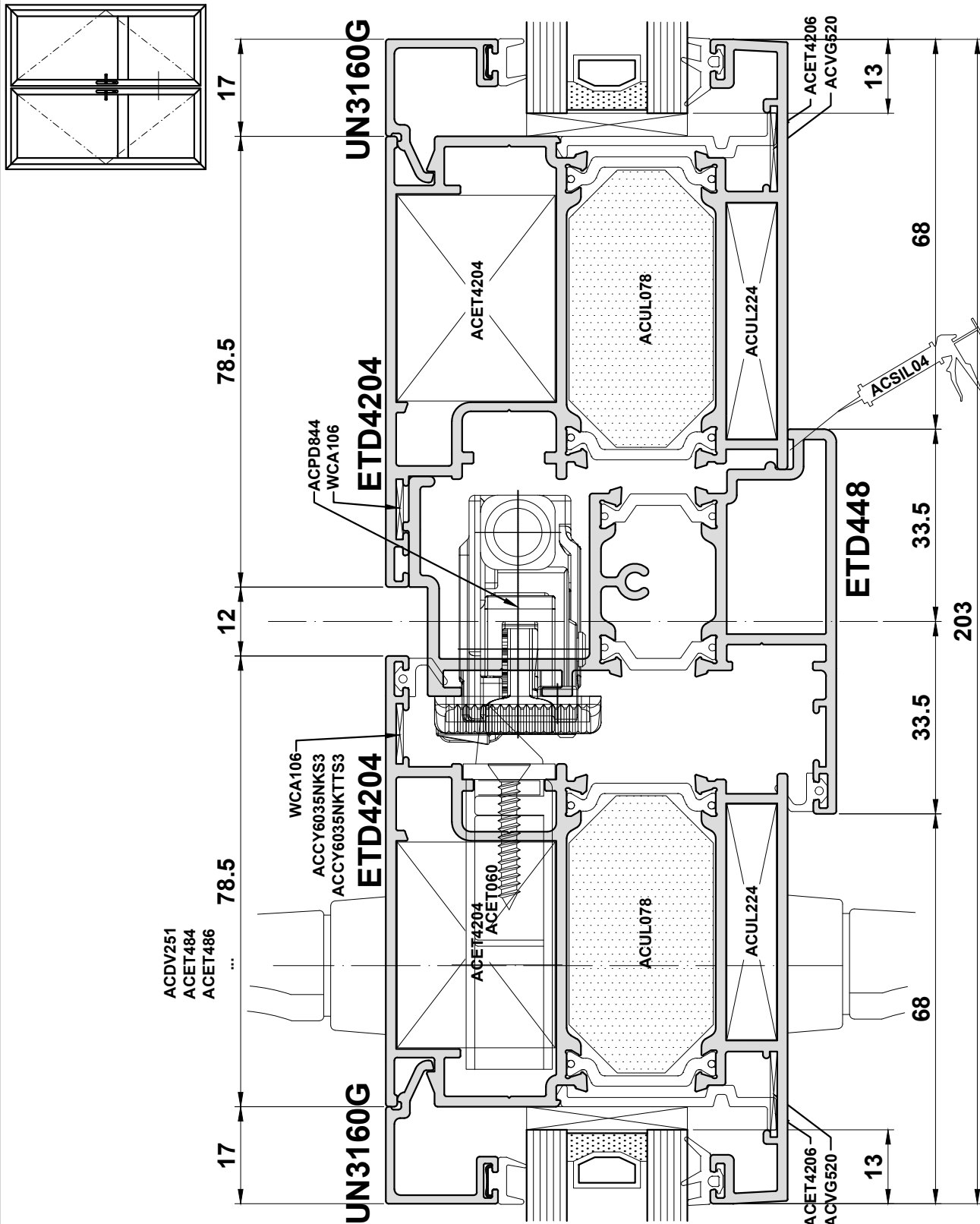
Open In - Detail 3b



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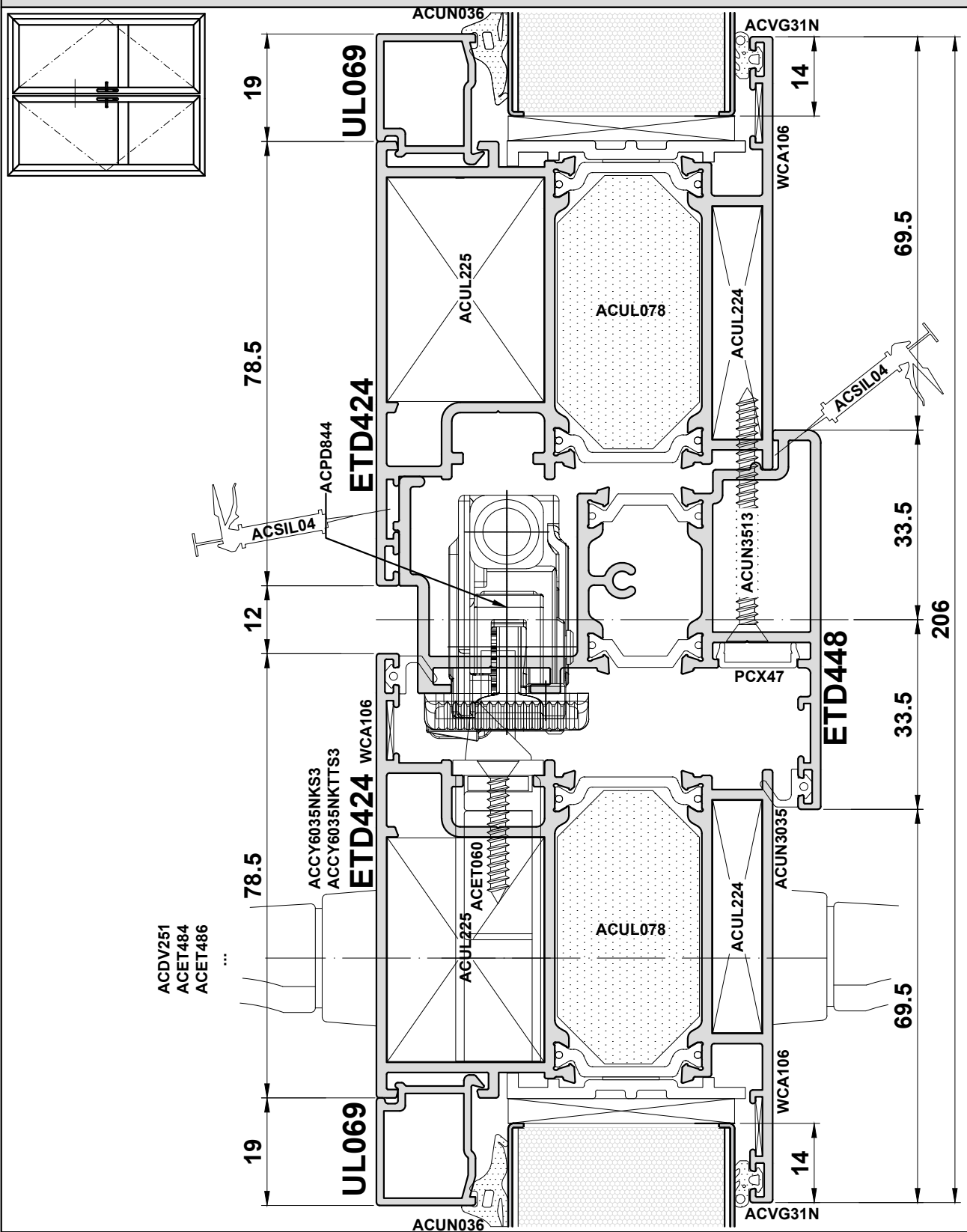
Alitherm 400 Stepped Door

Open In - Detail 3c



Do Not Scale From This Drawing

Open In - Detail 3d

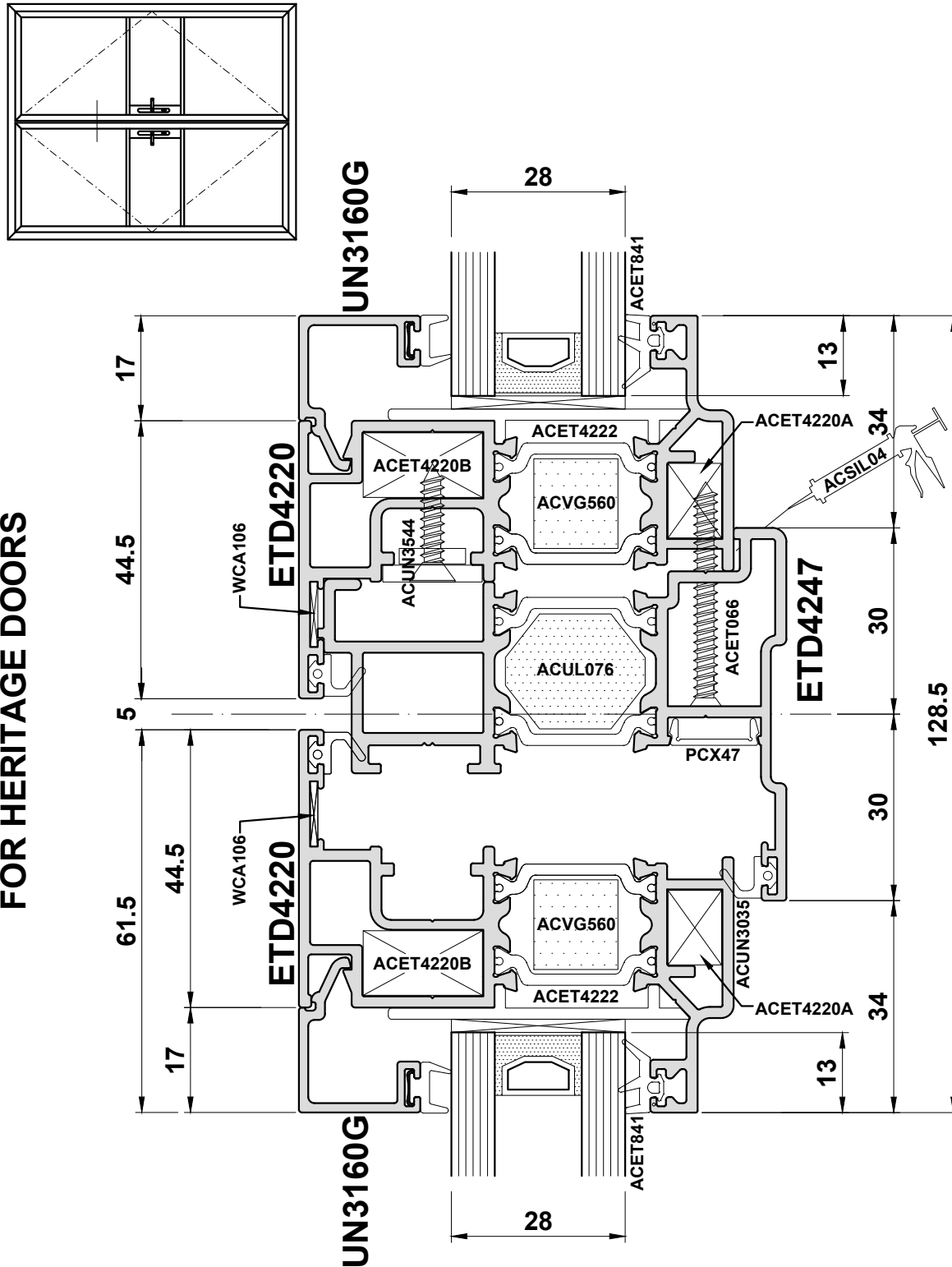


Do Not Scale From This Drawing

Alitherm 400 Stepped Door

Heritage Open In - Detail 3e

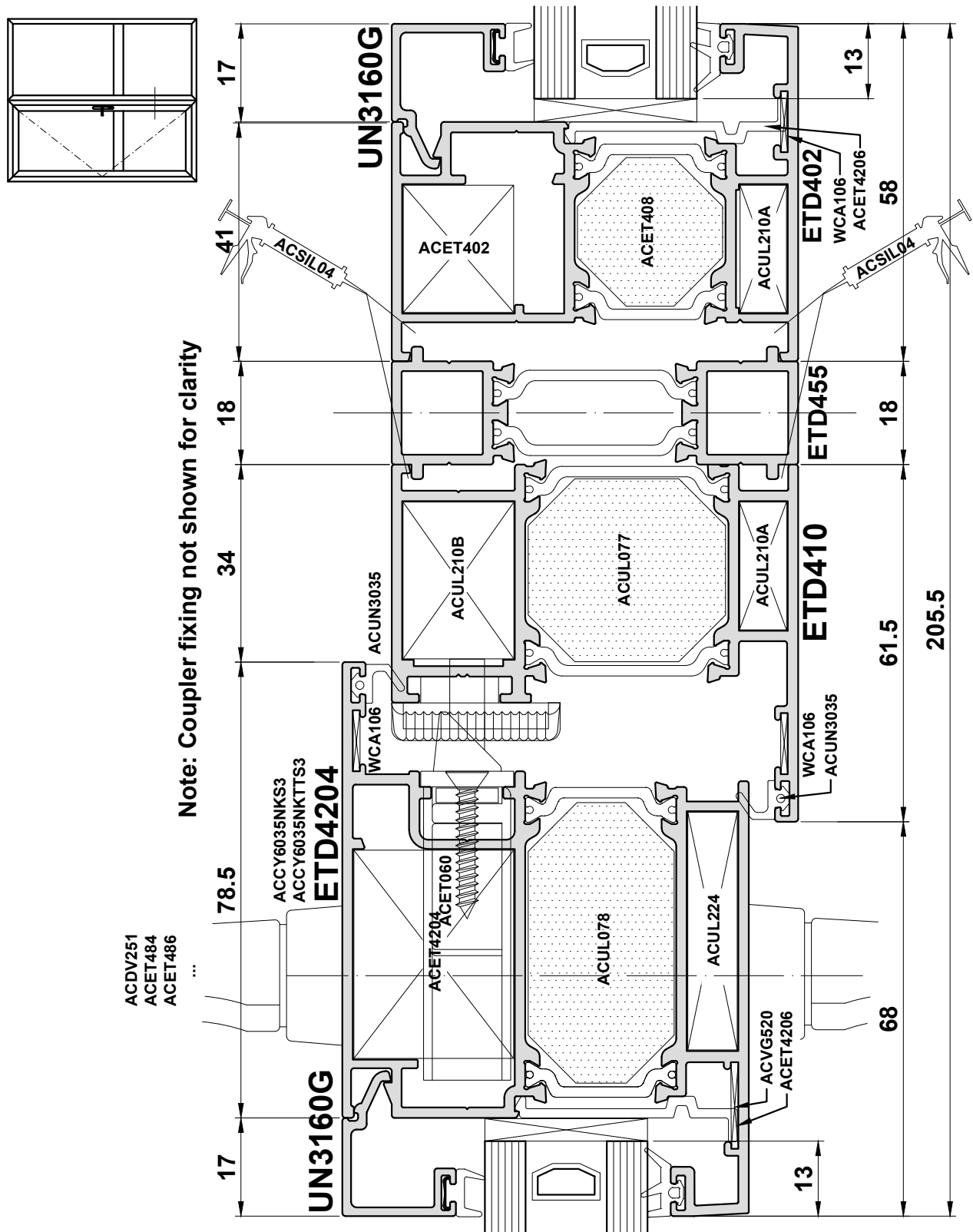
**ONLY USE ACW20465 LOCK & ACW20466 SECONDARY LOCK
FOR HERITAGE DOORS**



Do Not Scale From This Drawing

Alitherm 400 Stepped Door

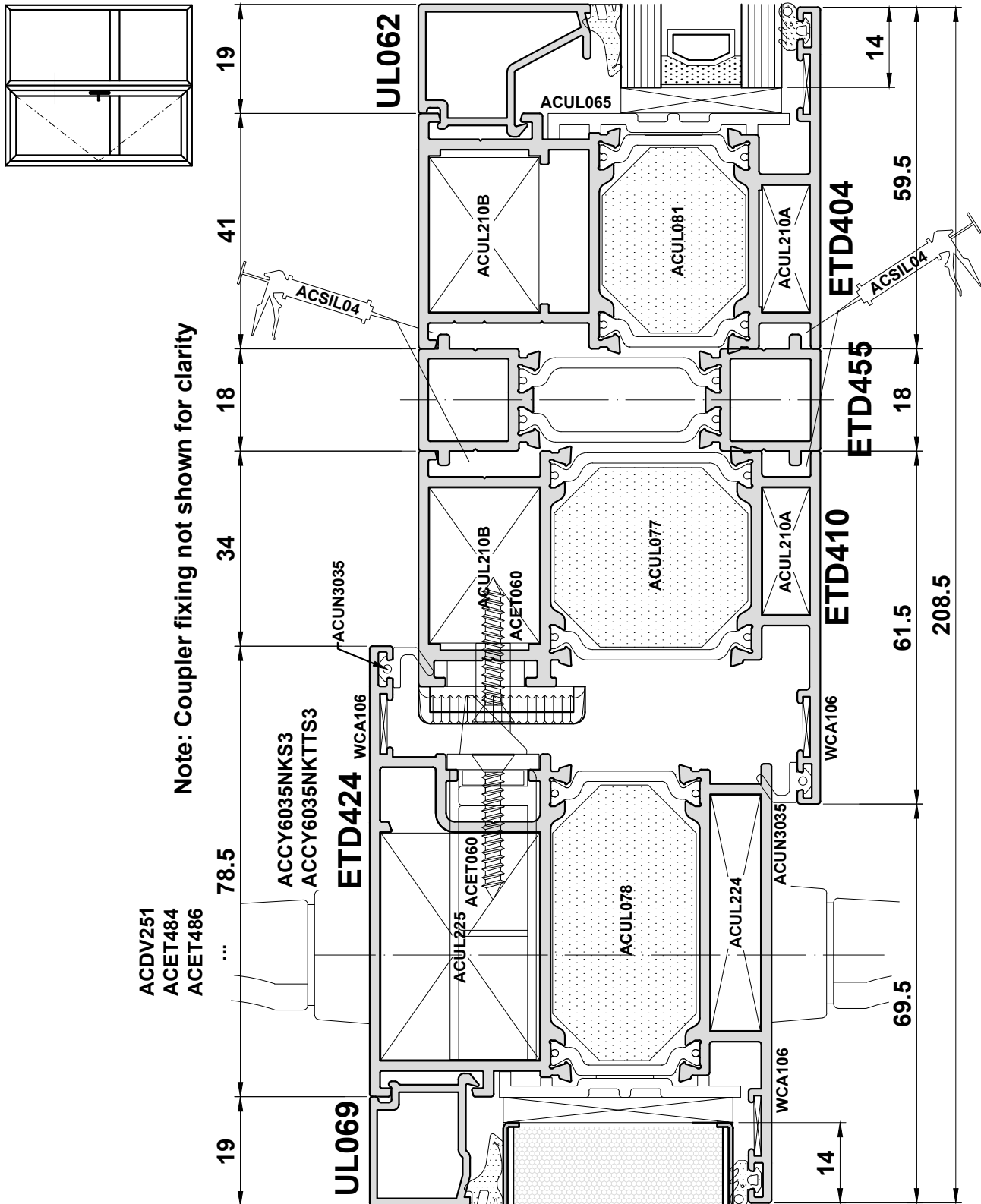
Open In - Detail 4a



Do Not Scale From This Drawing

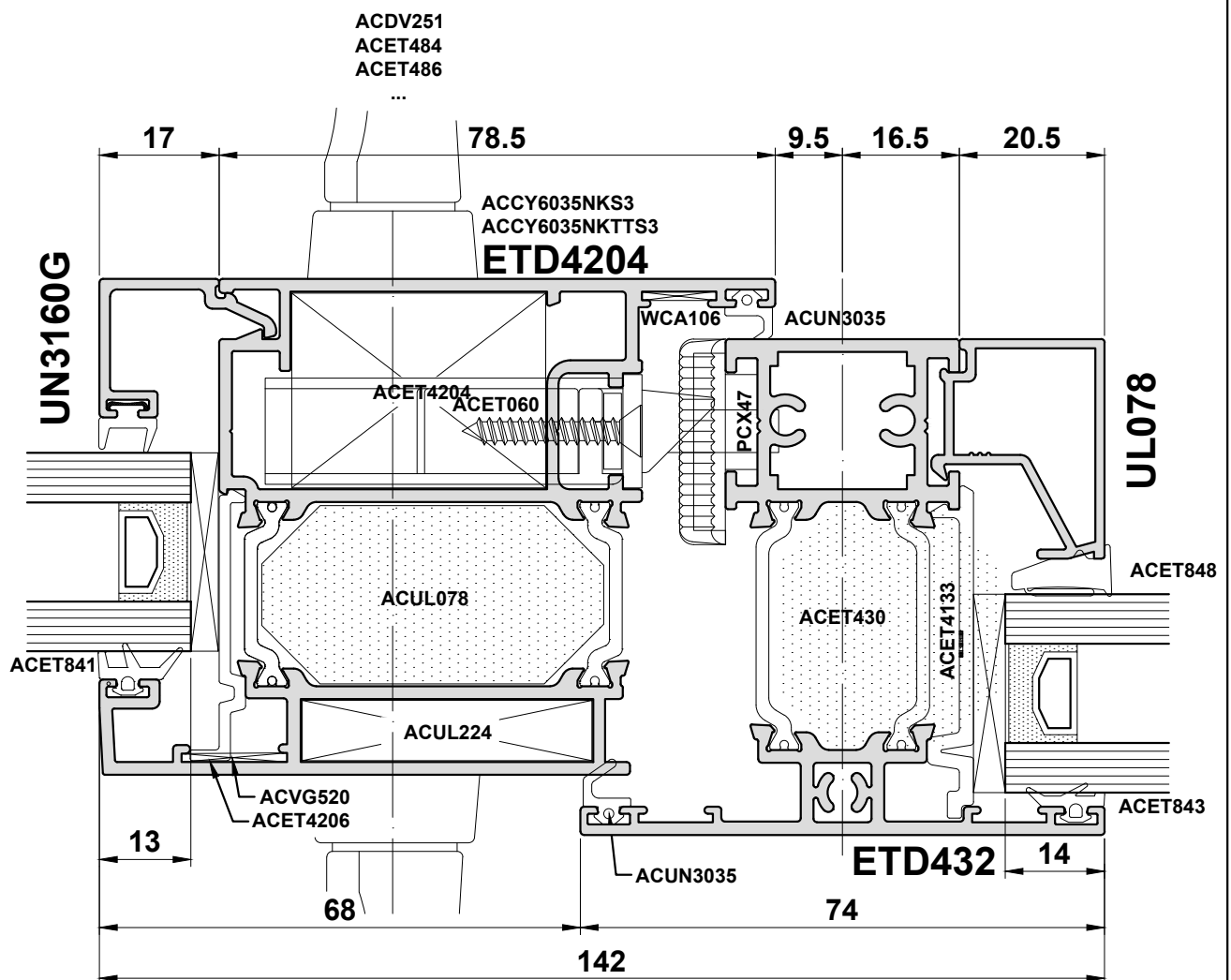
Alitherm 400 Stepped Door

Open In - Detail 4b



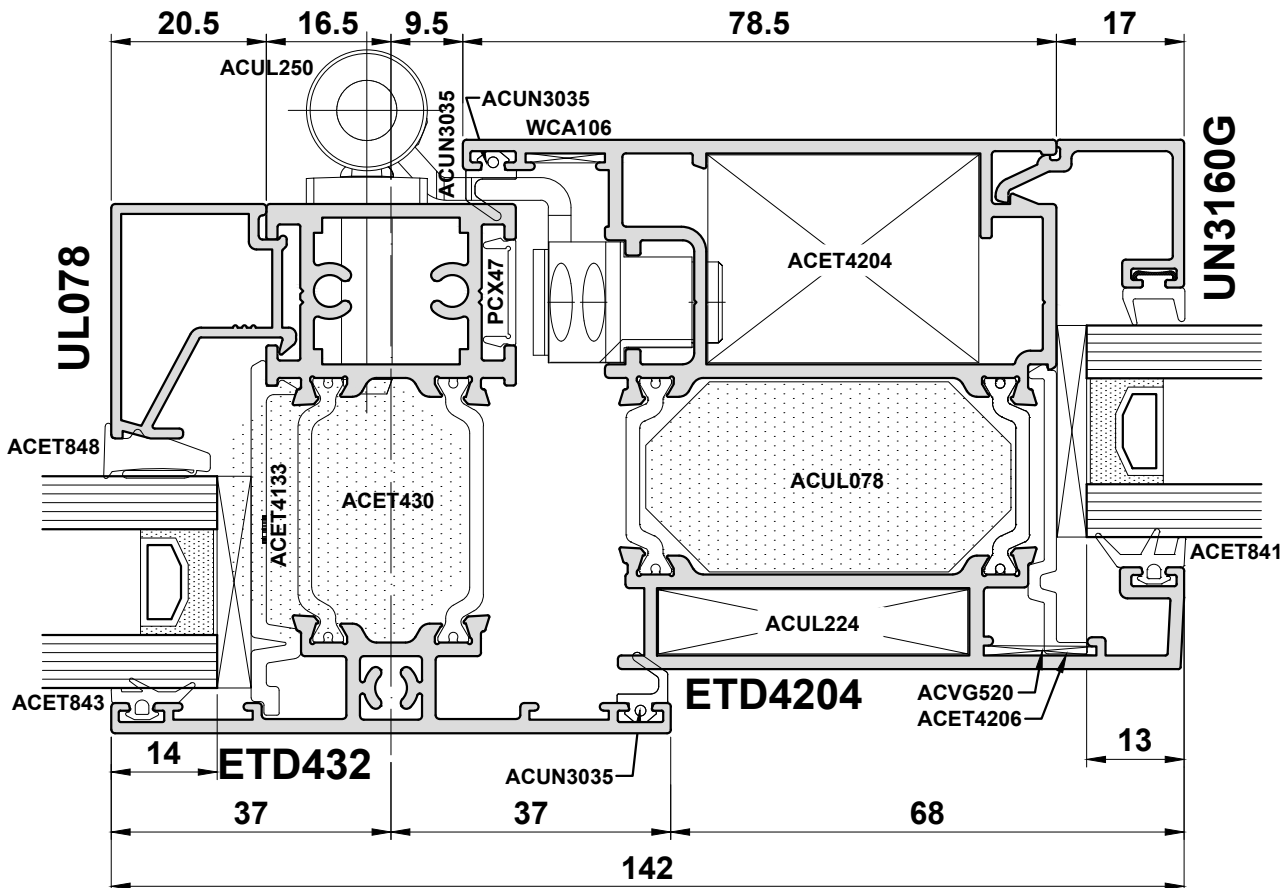
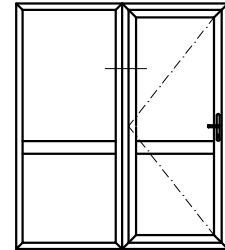
Do Not Scale From This Drawing

Open In - Detail 4c



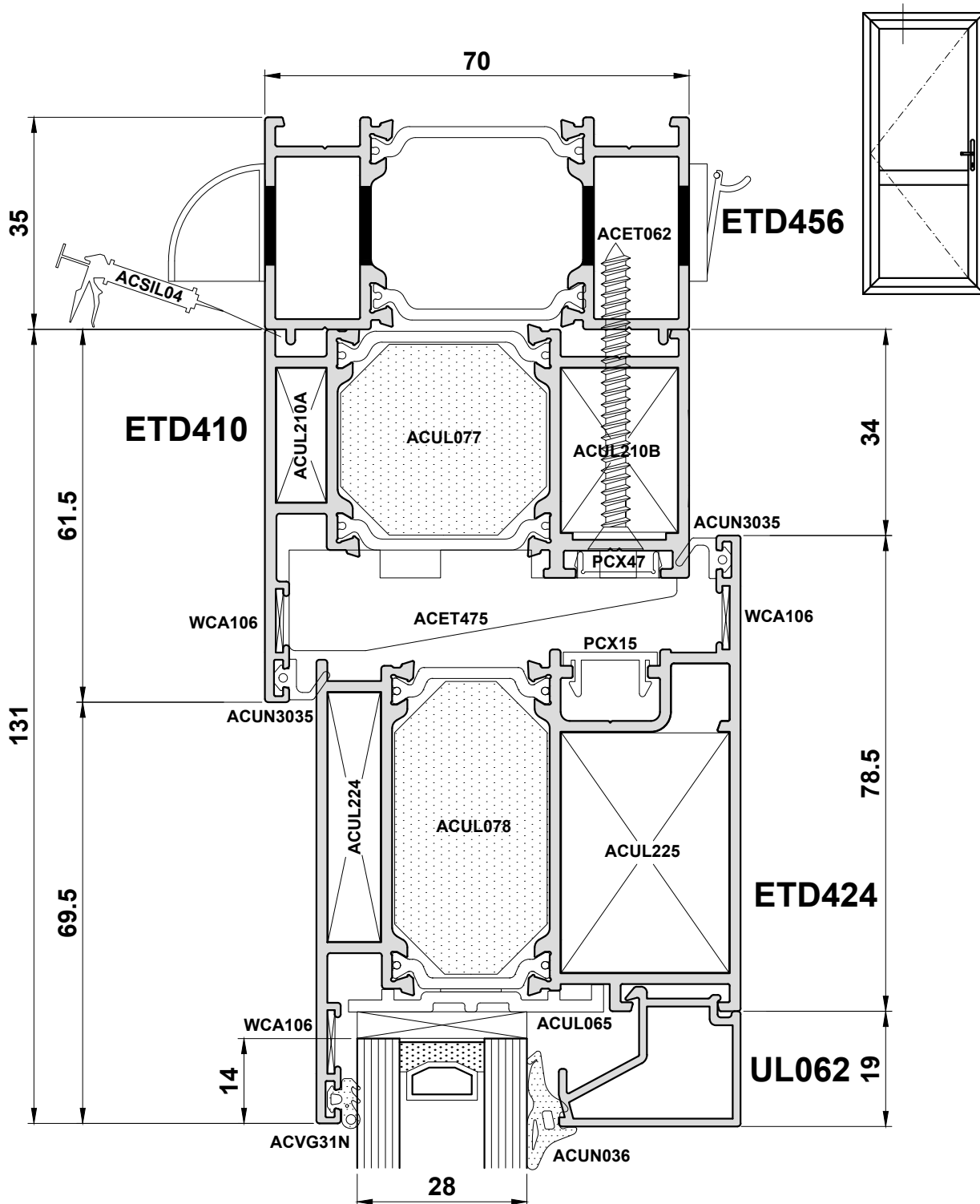
Do Not Scale From This Drawing

Open In - Detail 5



Do Not Scale From This Drawing

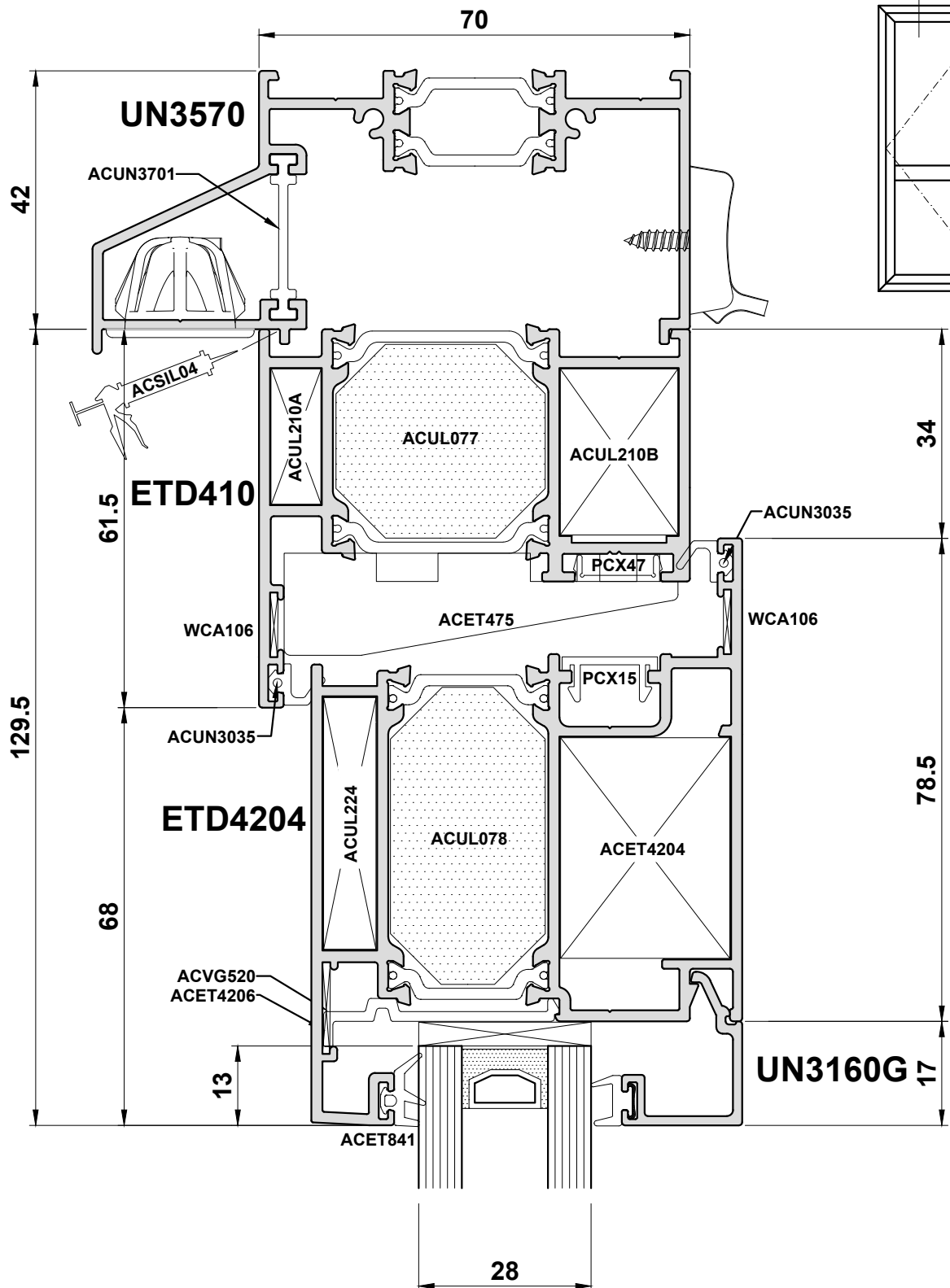
Open In - Detail 6b



Do Not Scale From This Drawing

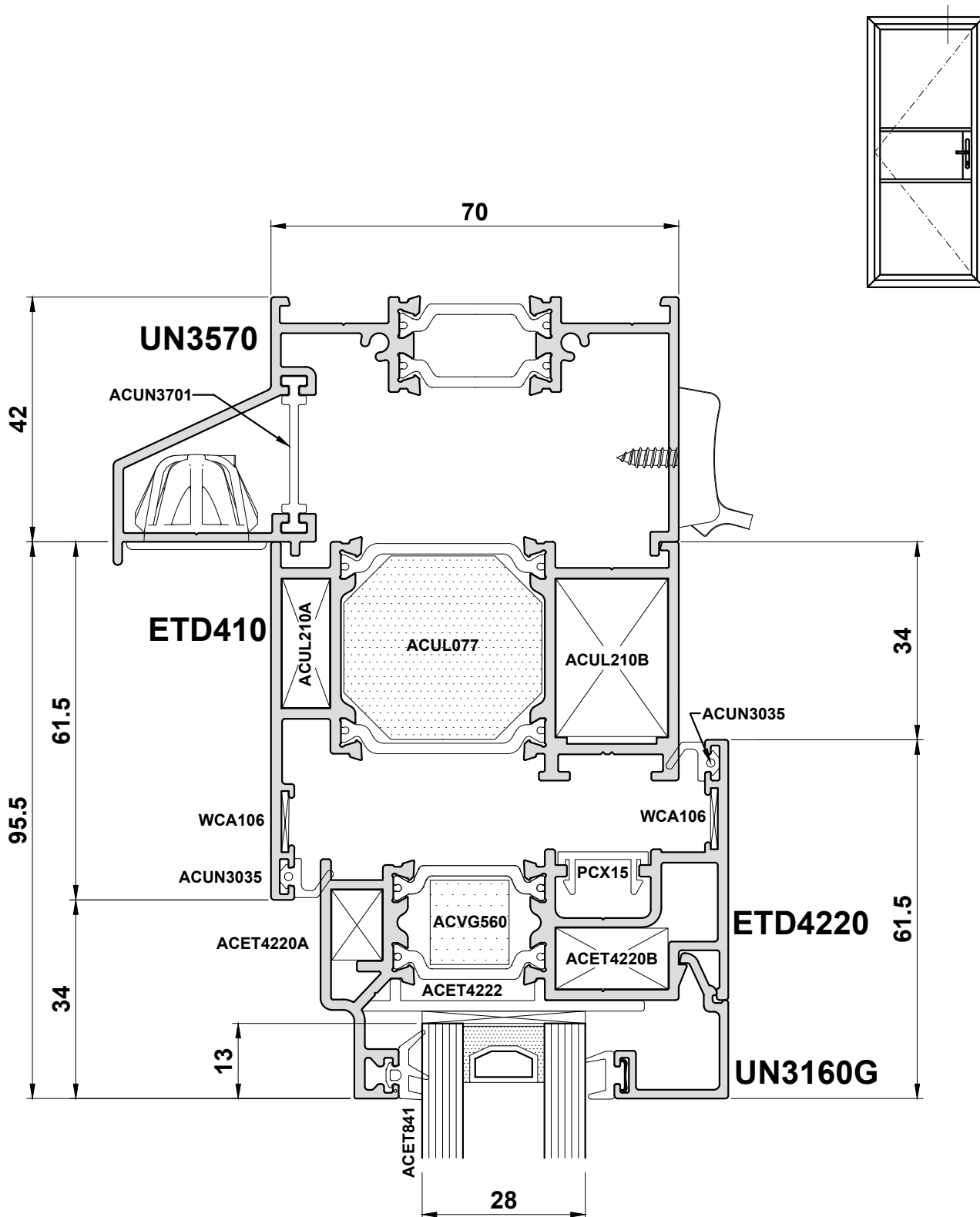
Alitherm 400 Stepped Door

Open In - Detail 6c



Do Not Scale From This Drawing

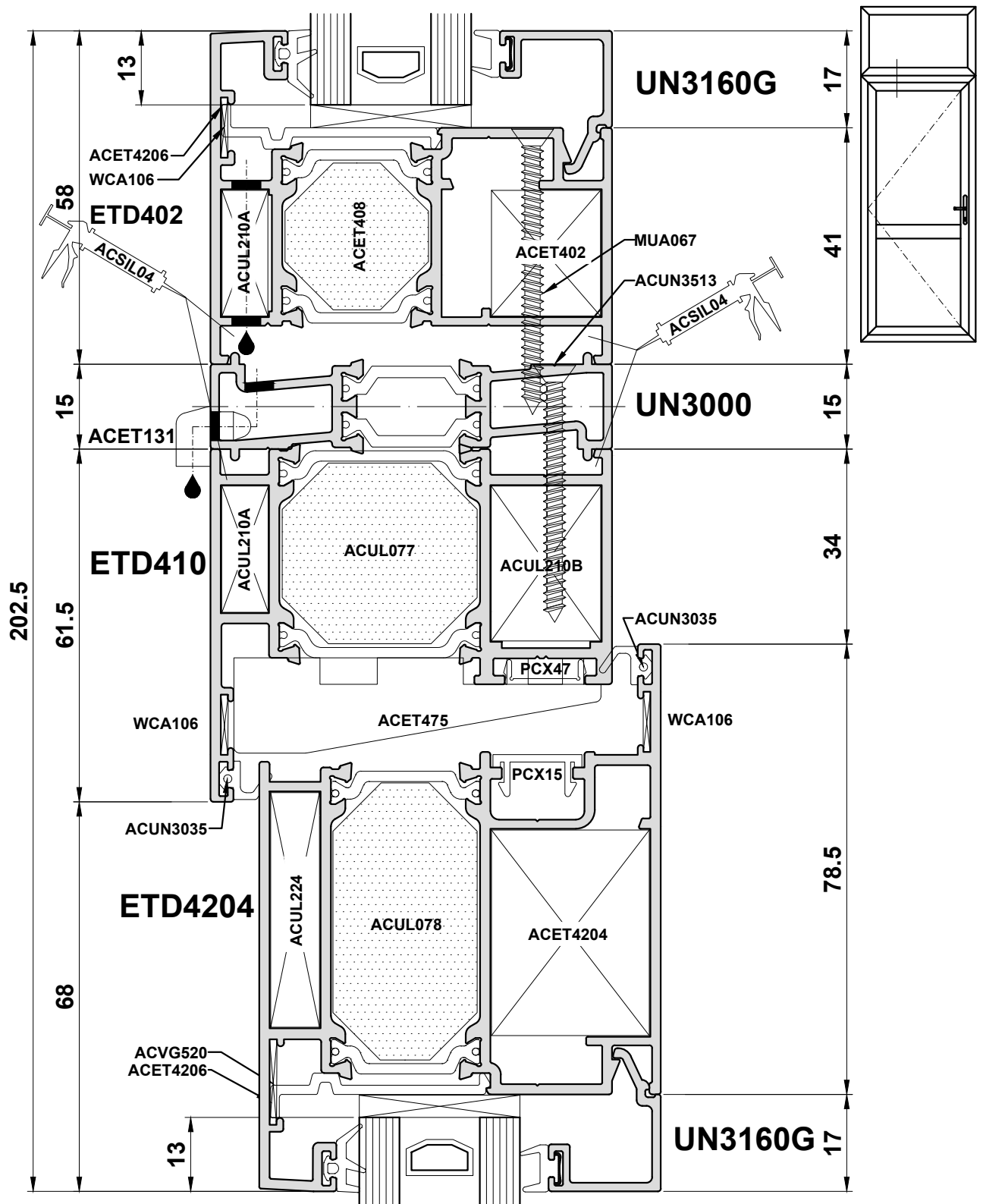
Heritage Open In - Detail 6d



Do Not Scale From This Drawing

Alitherm 400 Stepped Door

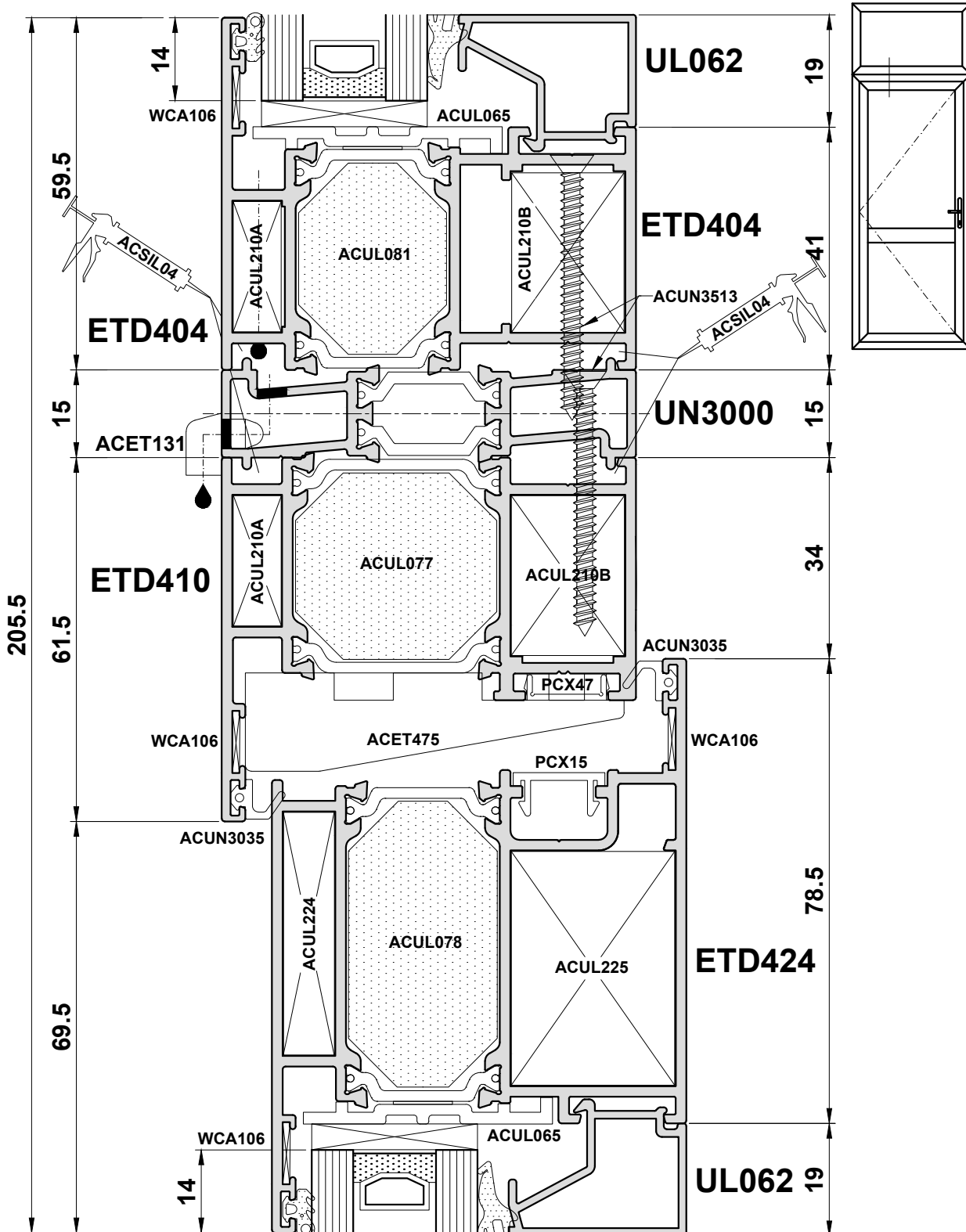
Open In - Detail 7a



Do Not Scale From This Drawing

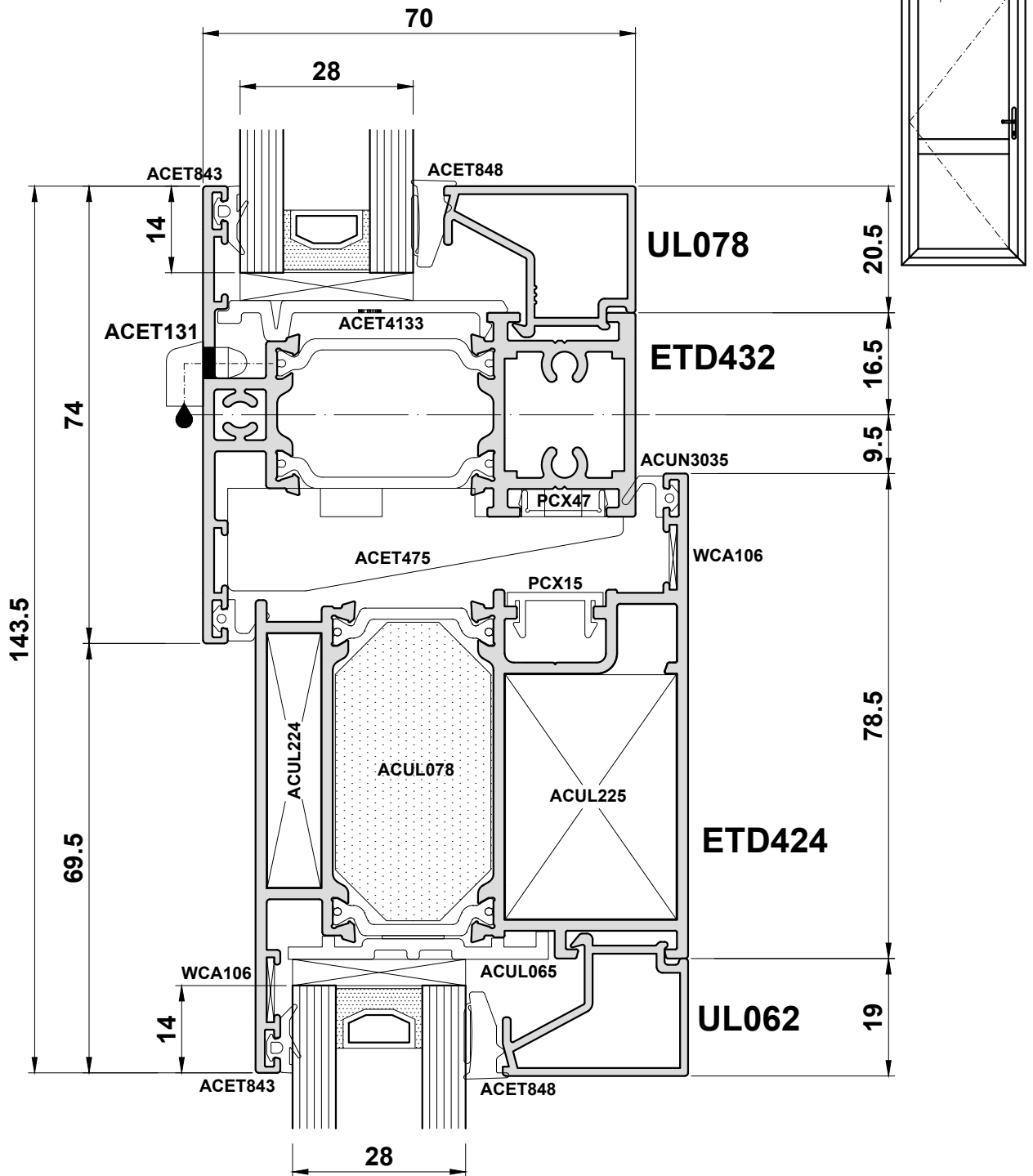
Alitherm 400 Stepped Door

Open In - Detail 7b



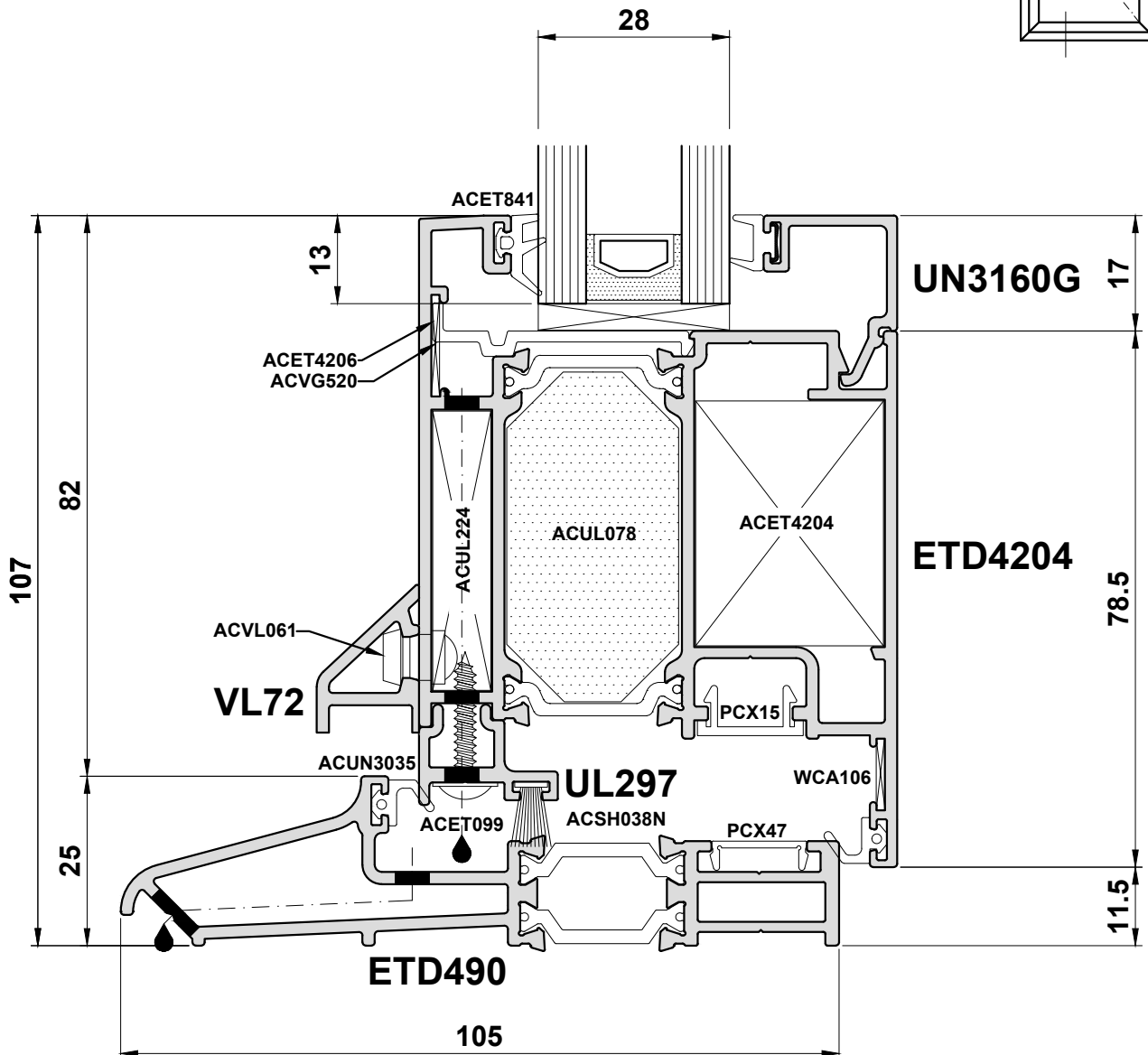
Do Not Scale From This Drawing

Open In - Detail 7c



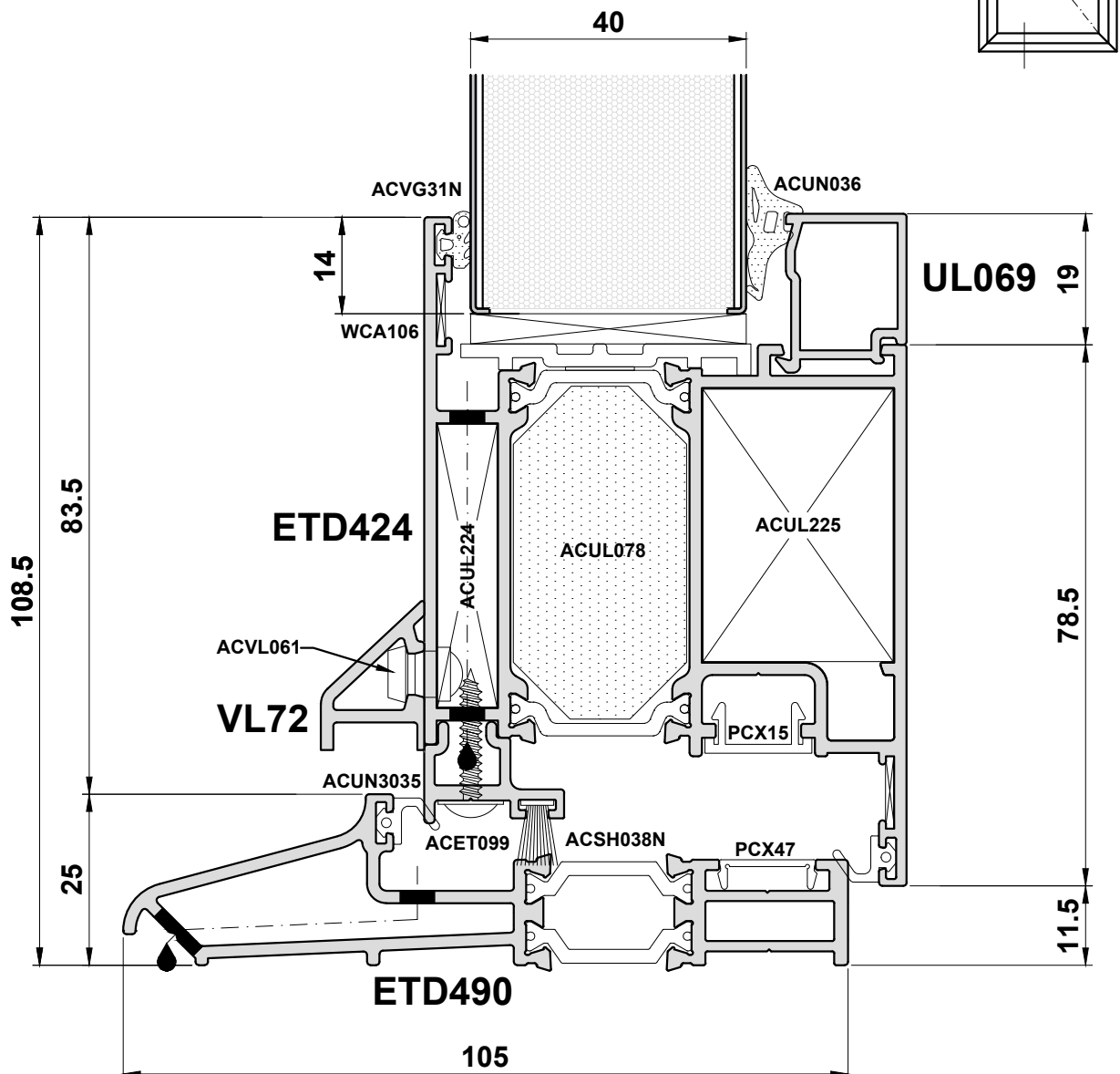
Do Not Scale From This Drawing

Open In - Detail 8a



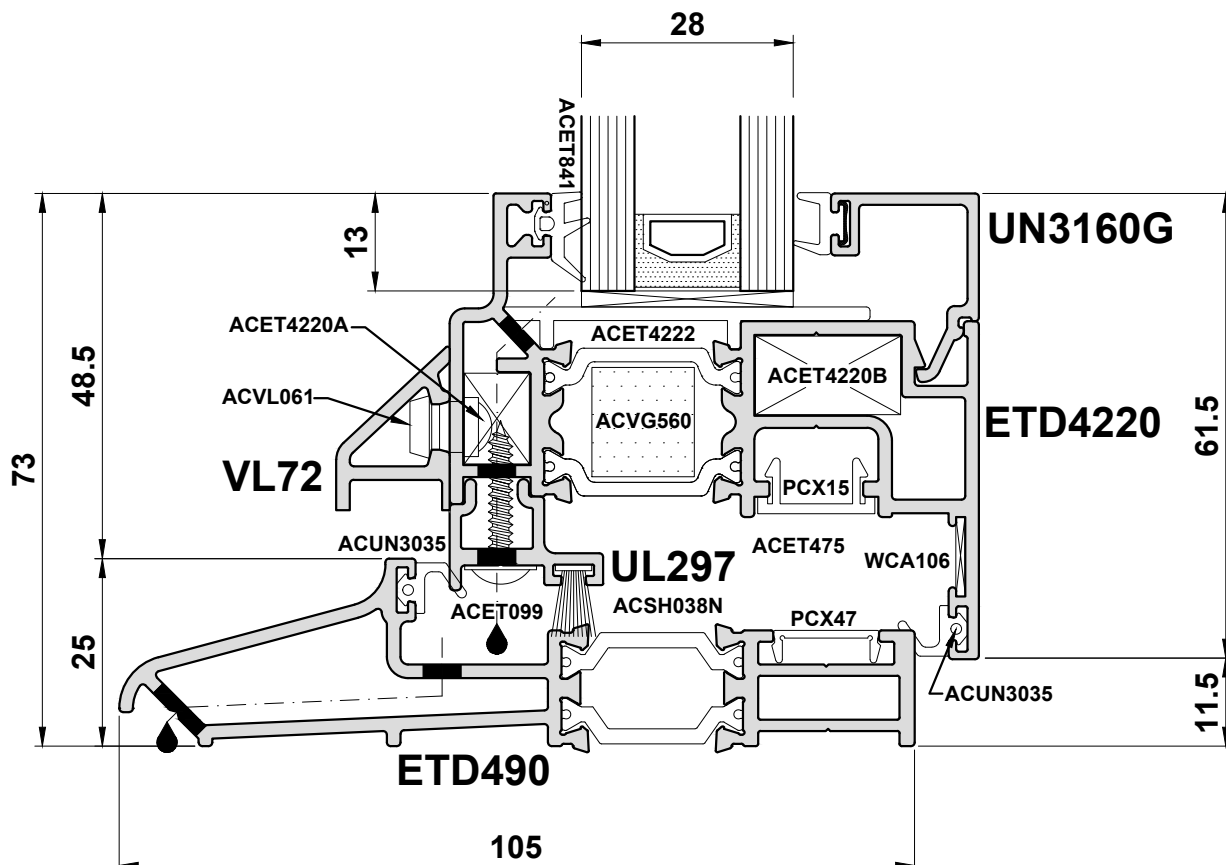
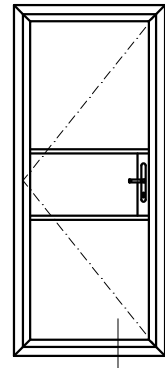
Do Not Scale From This Drawing

Open In - Detail 8b



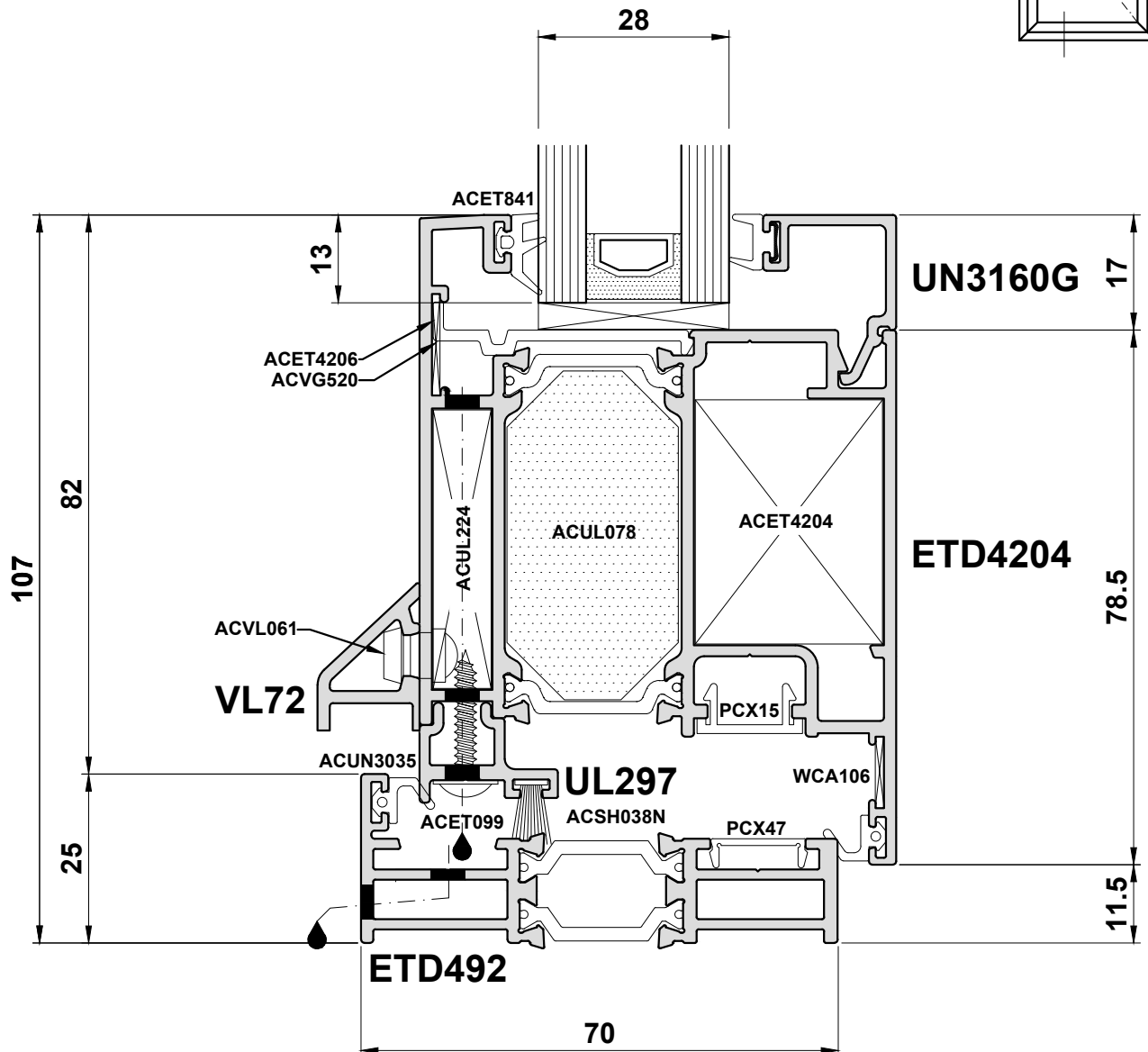
Do Not Scale From This Drawing

Heritage Open In - Detail 8c



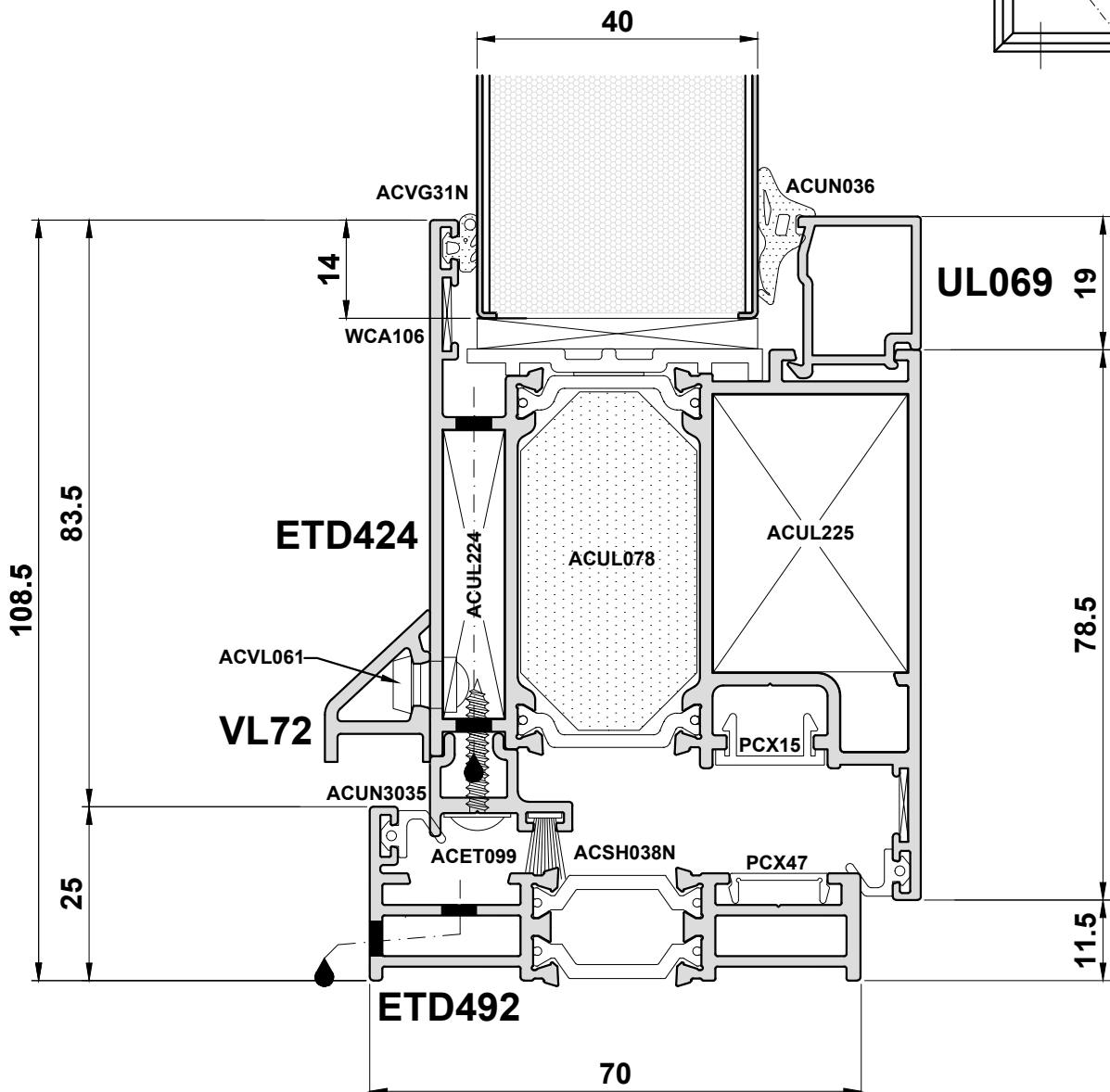
Do Not Scale From This Drawing

Open In - Detail 8d



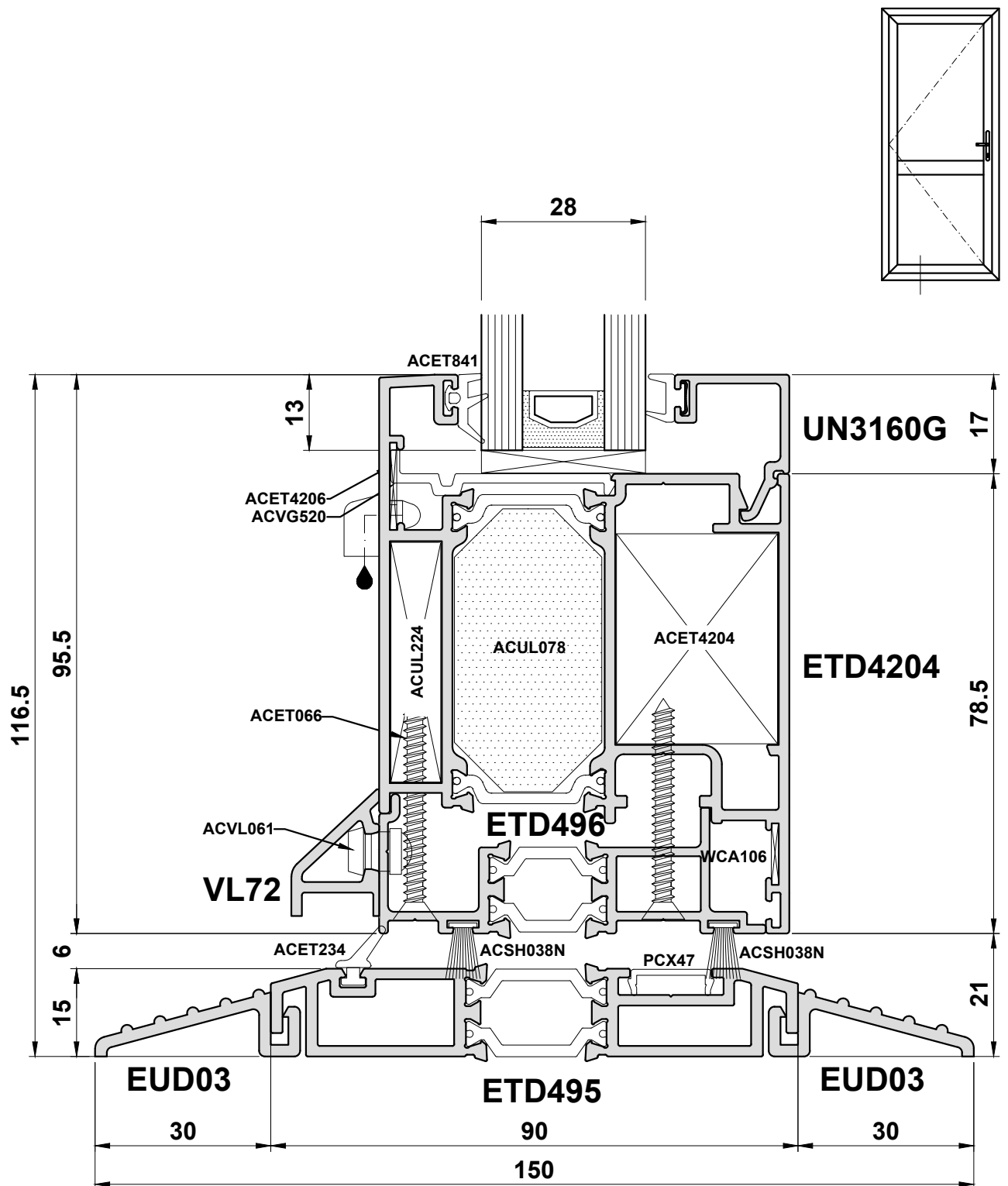
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Open In - Detail 8e



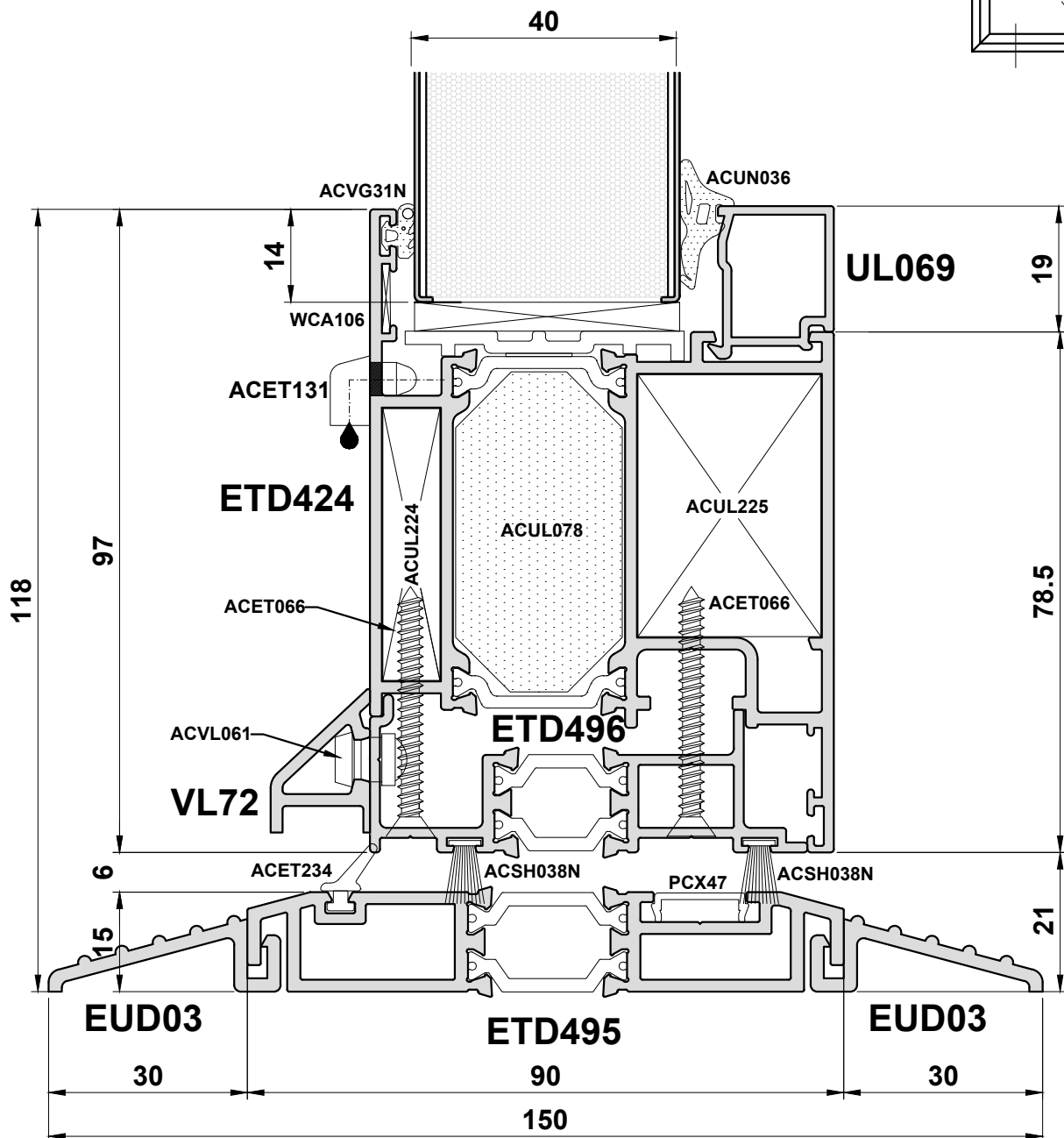
Do Not Scale From This Drawing

Open In - Detail 8f



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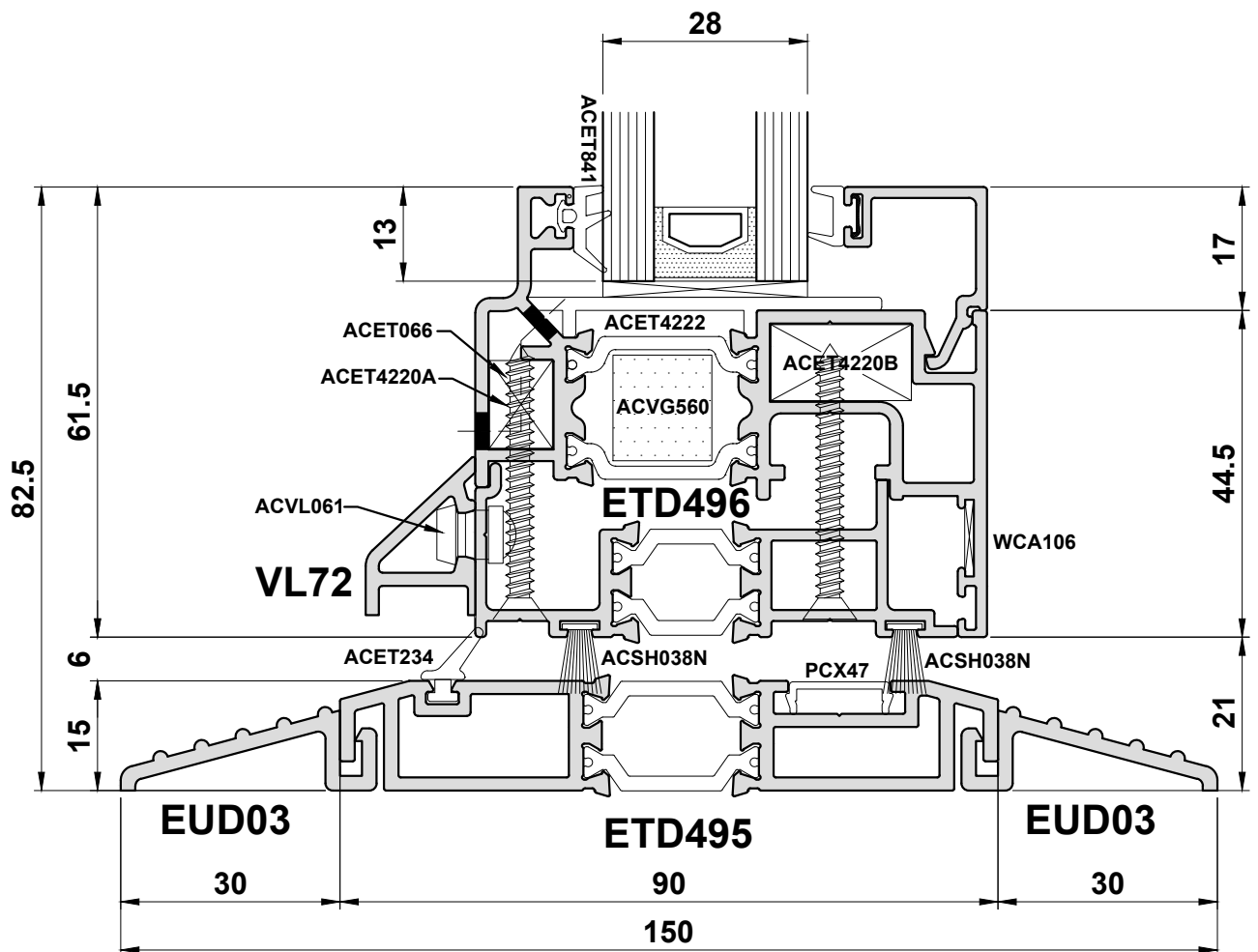
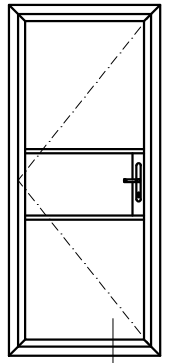
Open In - Detail 8g



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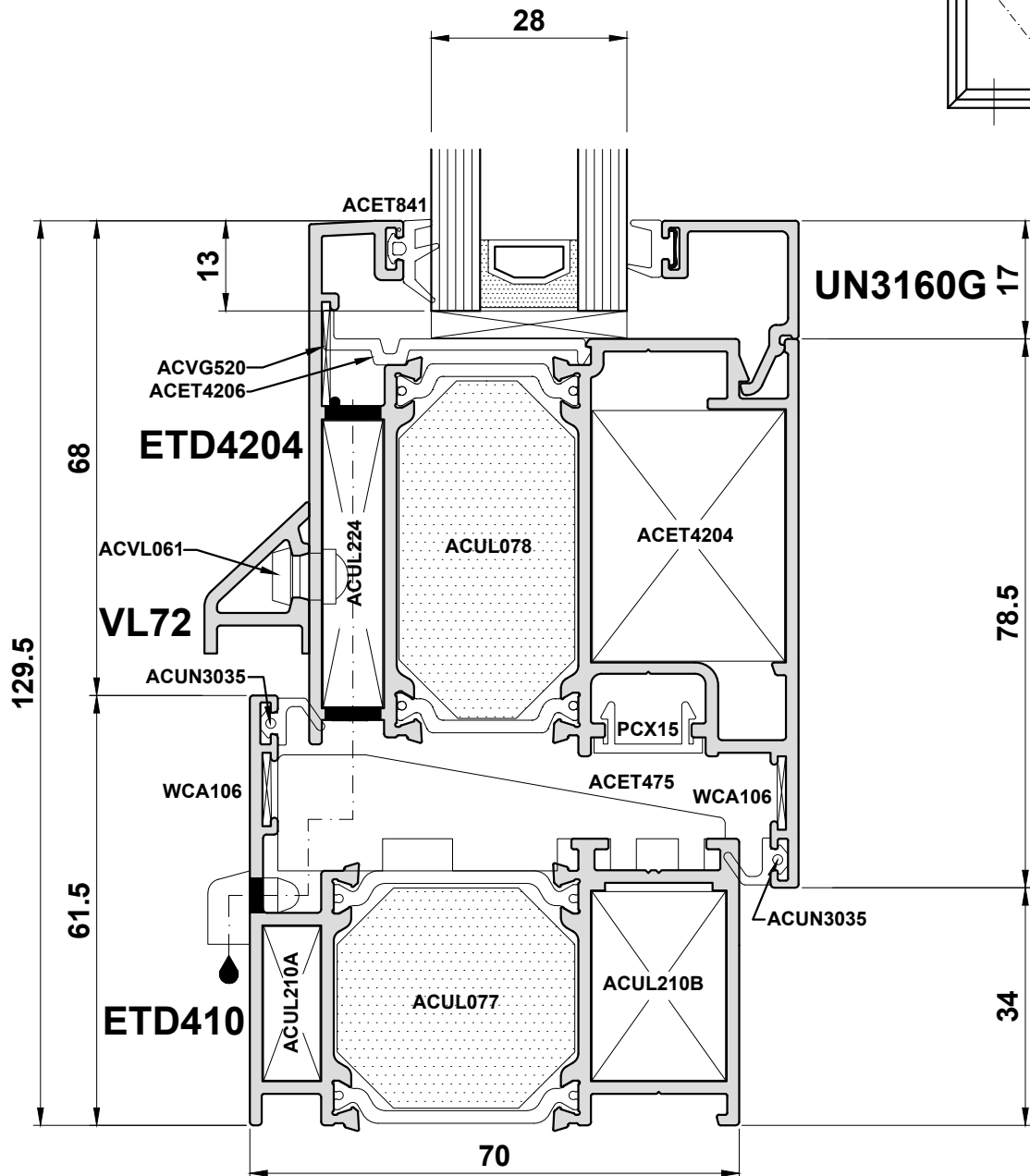
Alitherm 400 Stepped Door

Heritage Open In - Detail 8h



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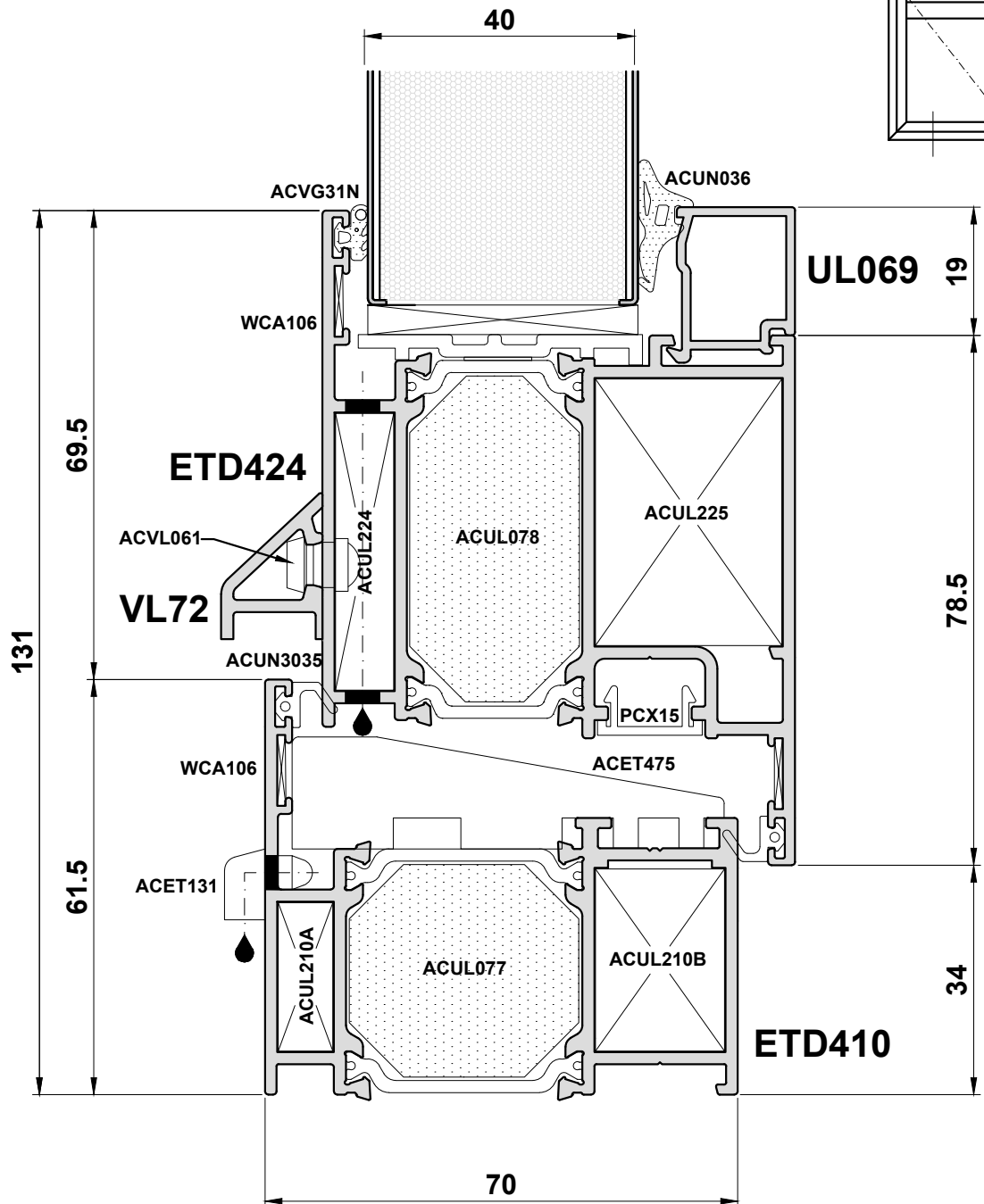
Open In - Detail 8i



Do Not Scale From This Drawing

Alitherm 400 Stepped Door

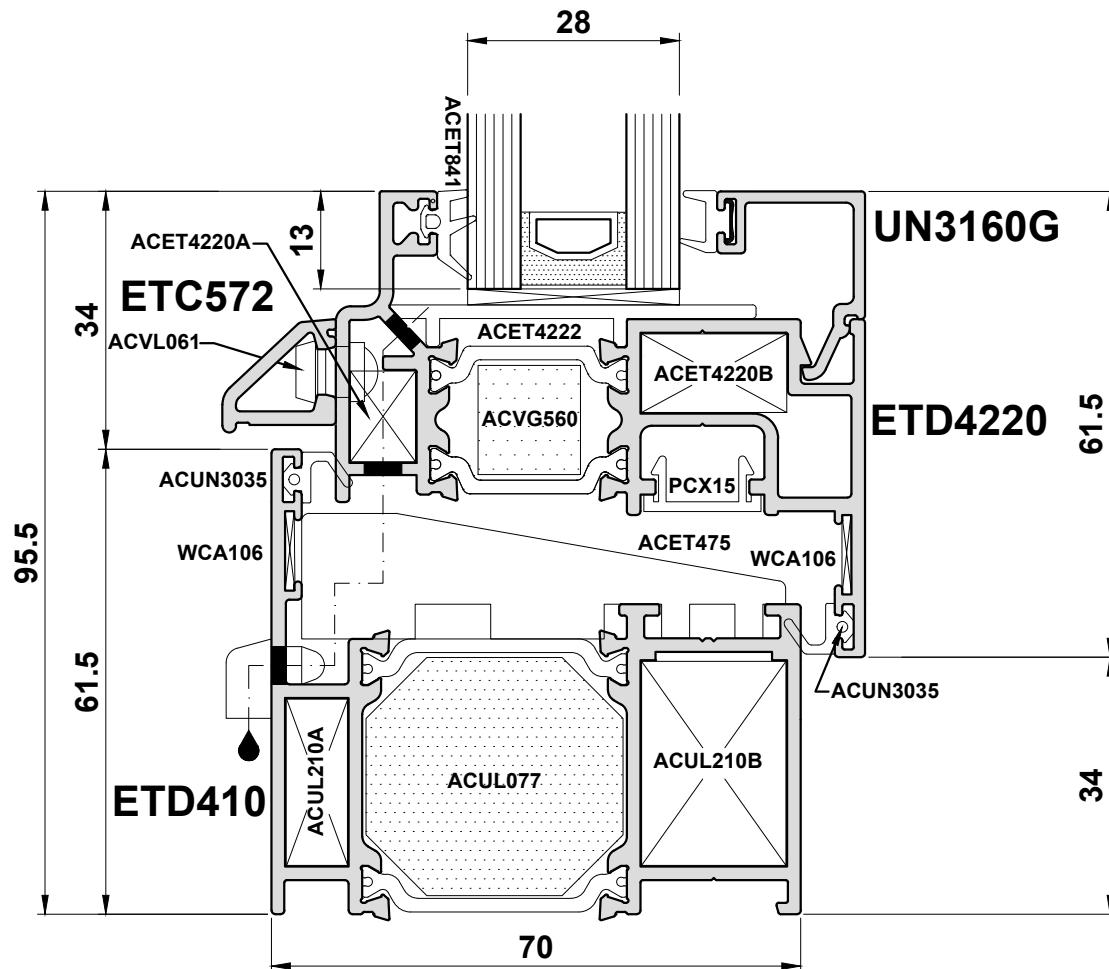
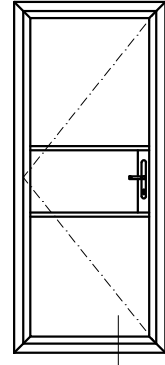
Open In - Detail 8j



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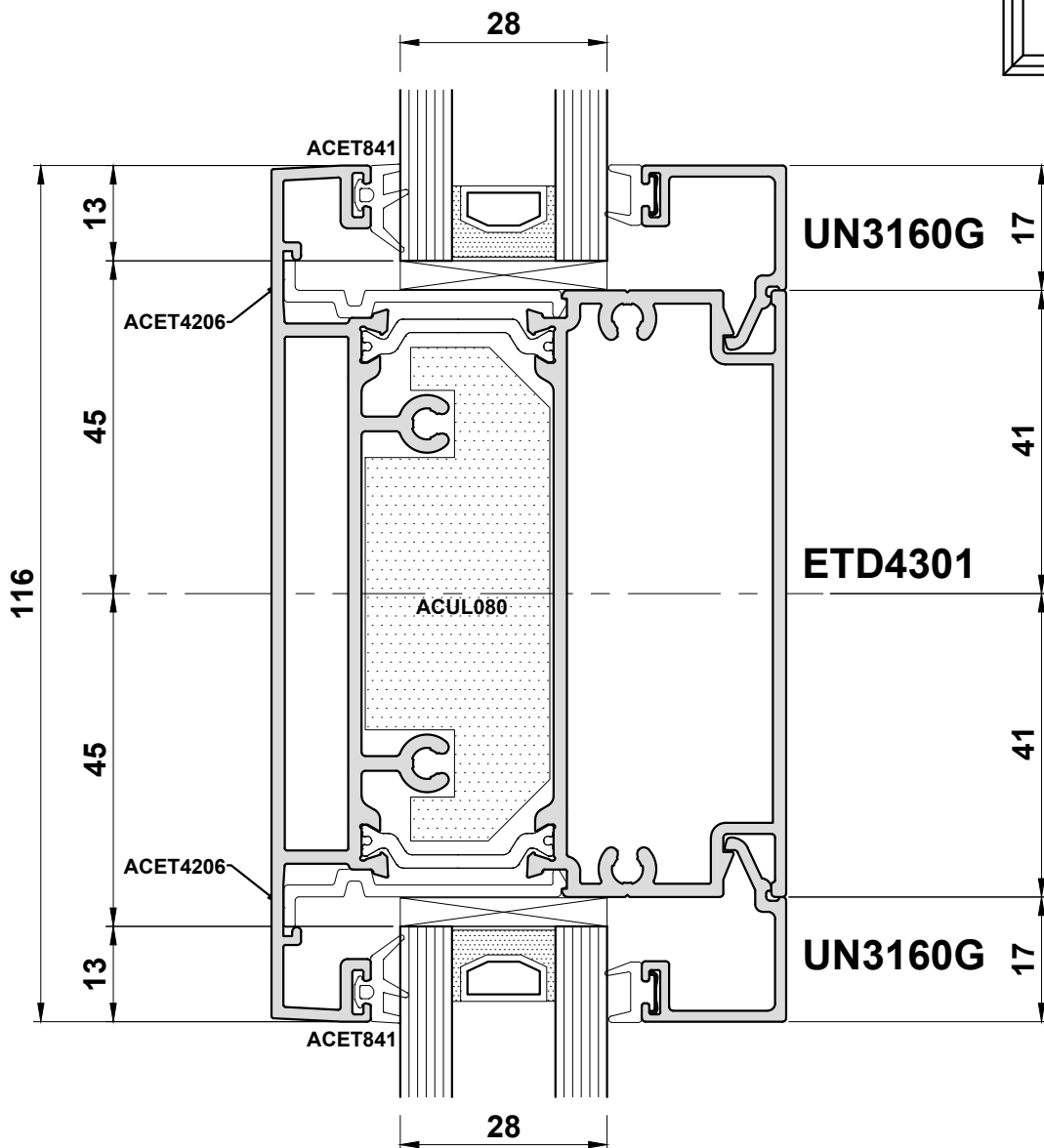
Alitherm 400 Stepped Door

Heritage Open In - Detail 8k



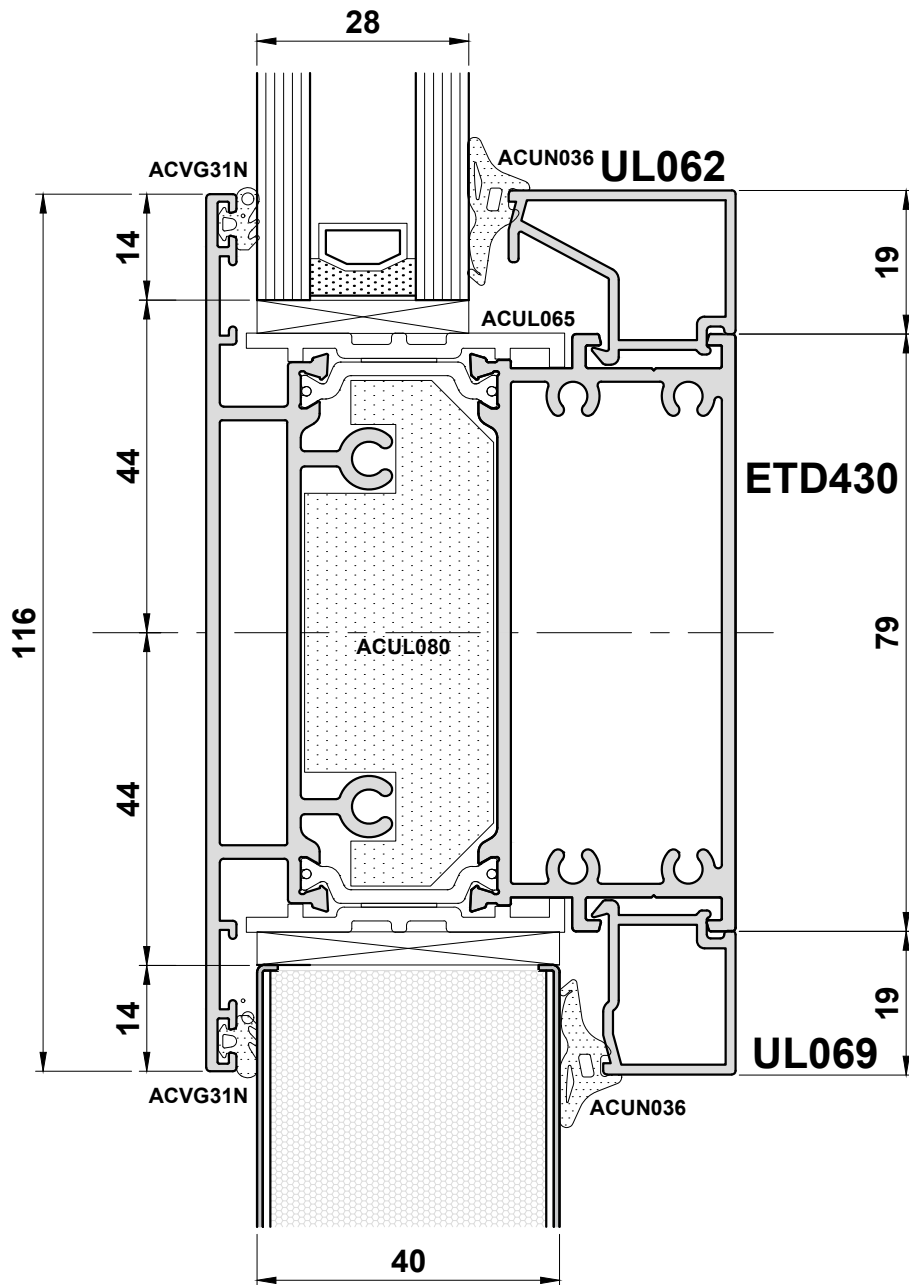
Do Not Scale From This Drawing

Open In - Detail 9a



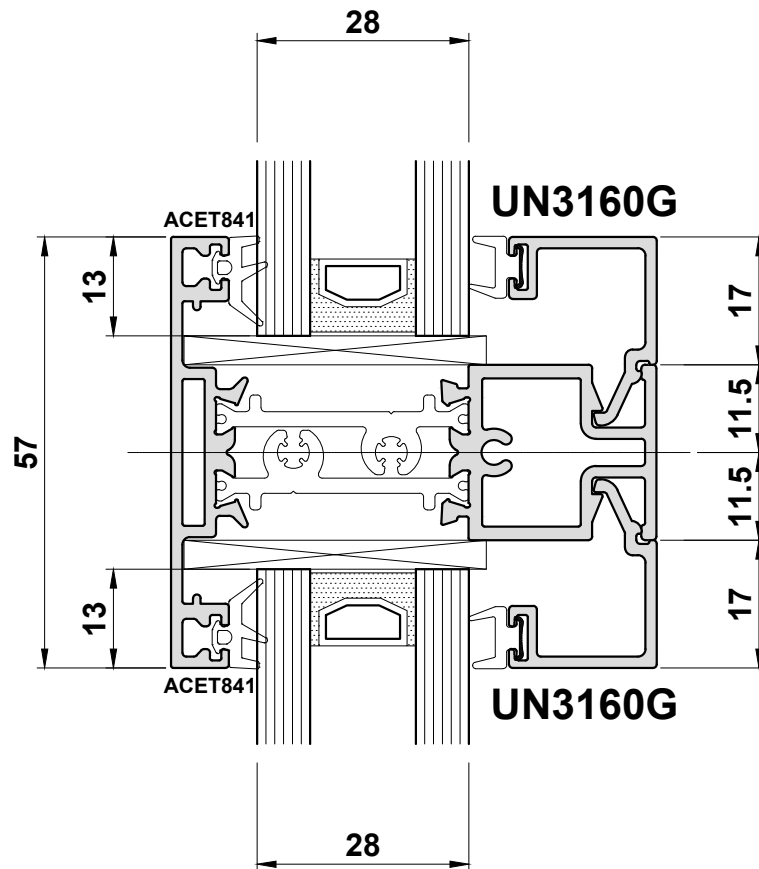
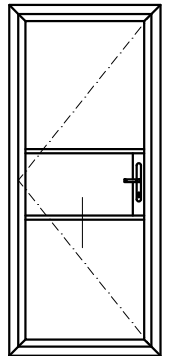
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Open In - Detail 9b



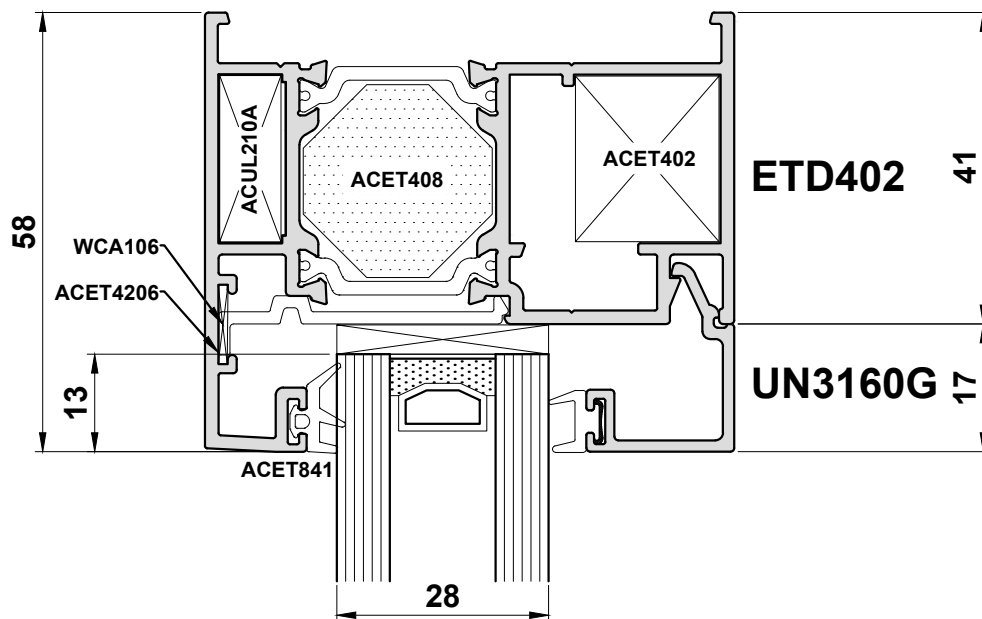
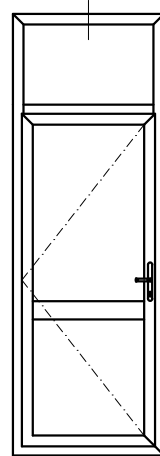
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Heritage Open In - Detail 9c



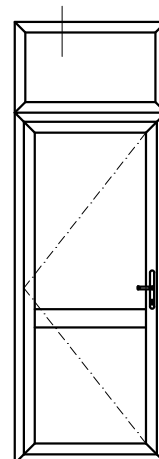
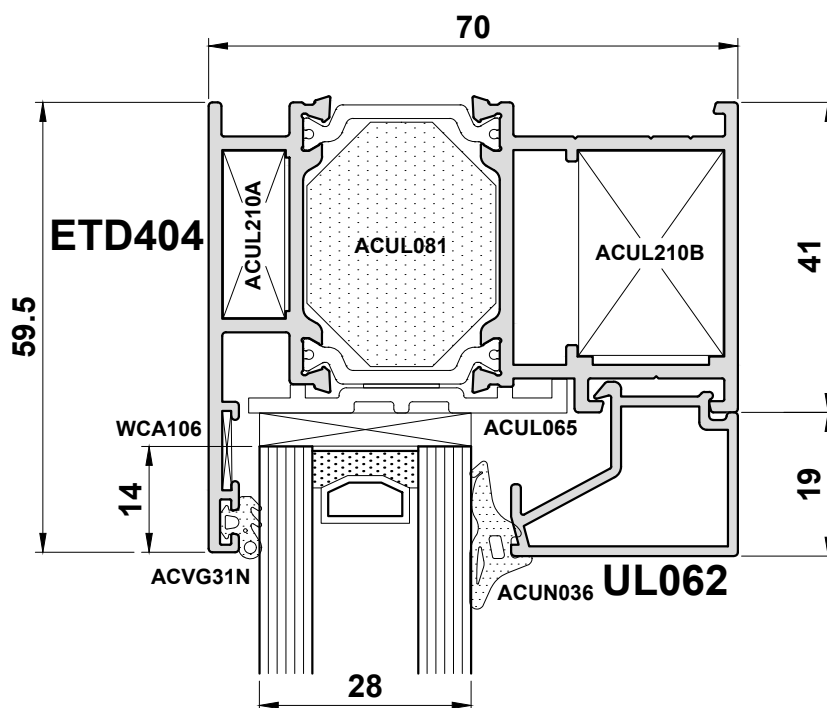
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Open In - Detail 10a



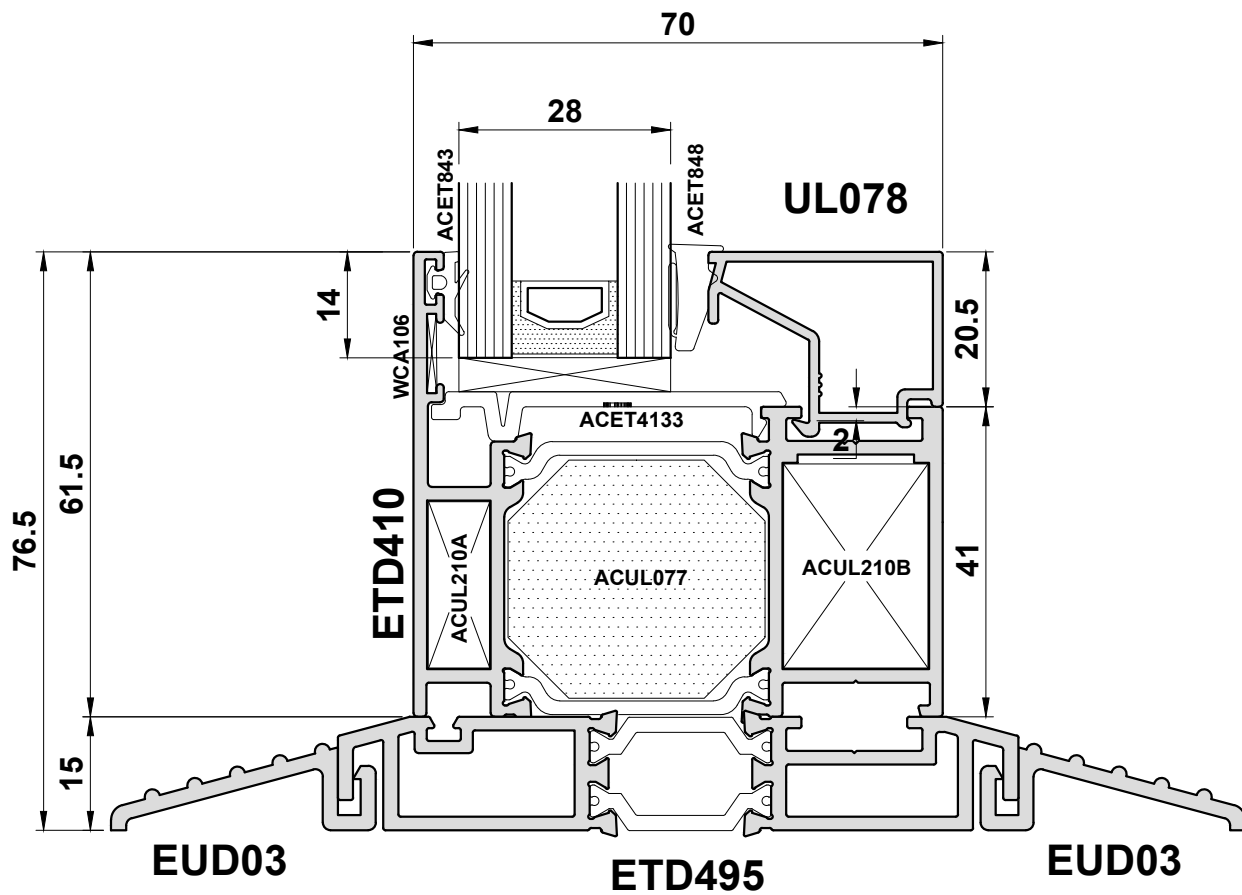
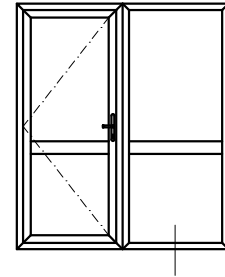
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Open In - Detail 10b



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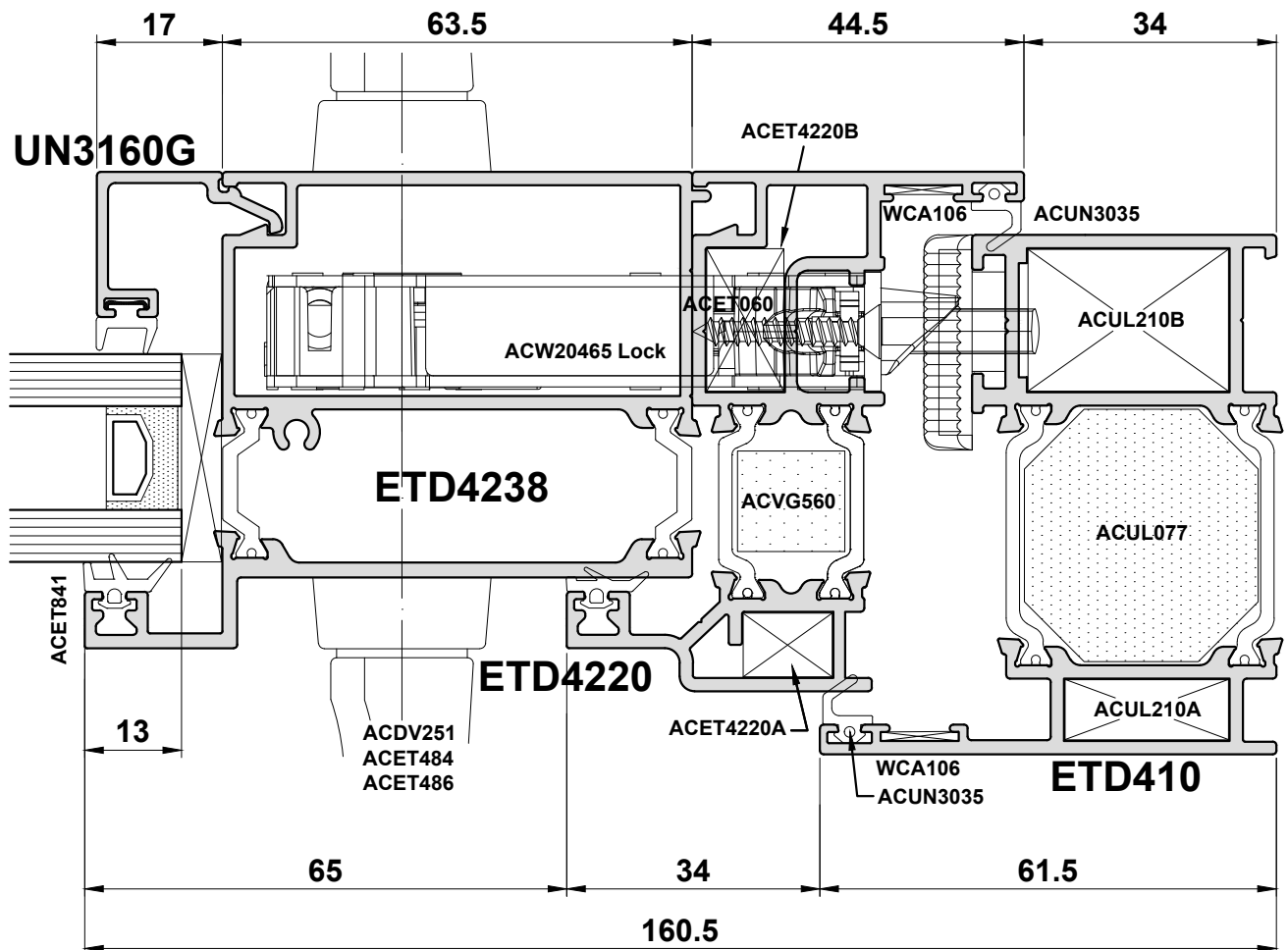
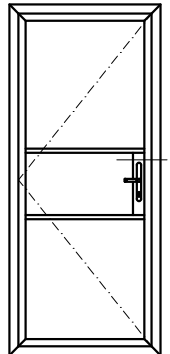
Open In - Detail 11



Do Not Scale From This Drawing

Heritage Open In - Detail 12

**ONLY USE ACW20465 LOCK
FOR HERITAGE DOORS**

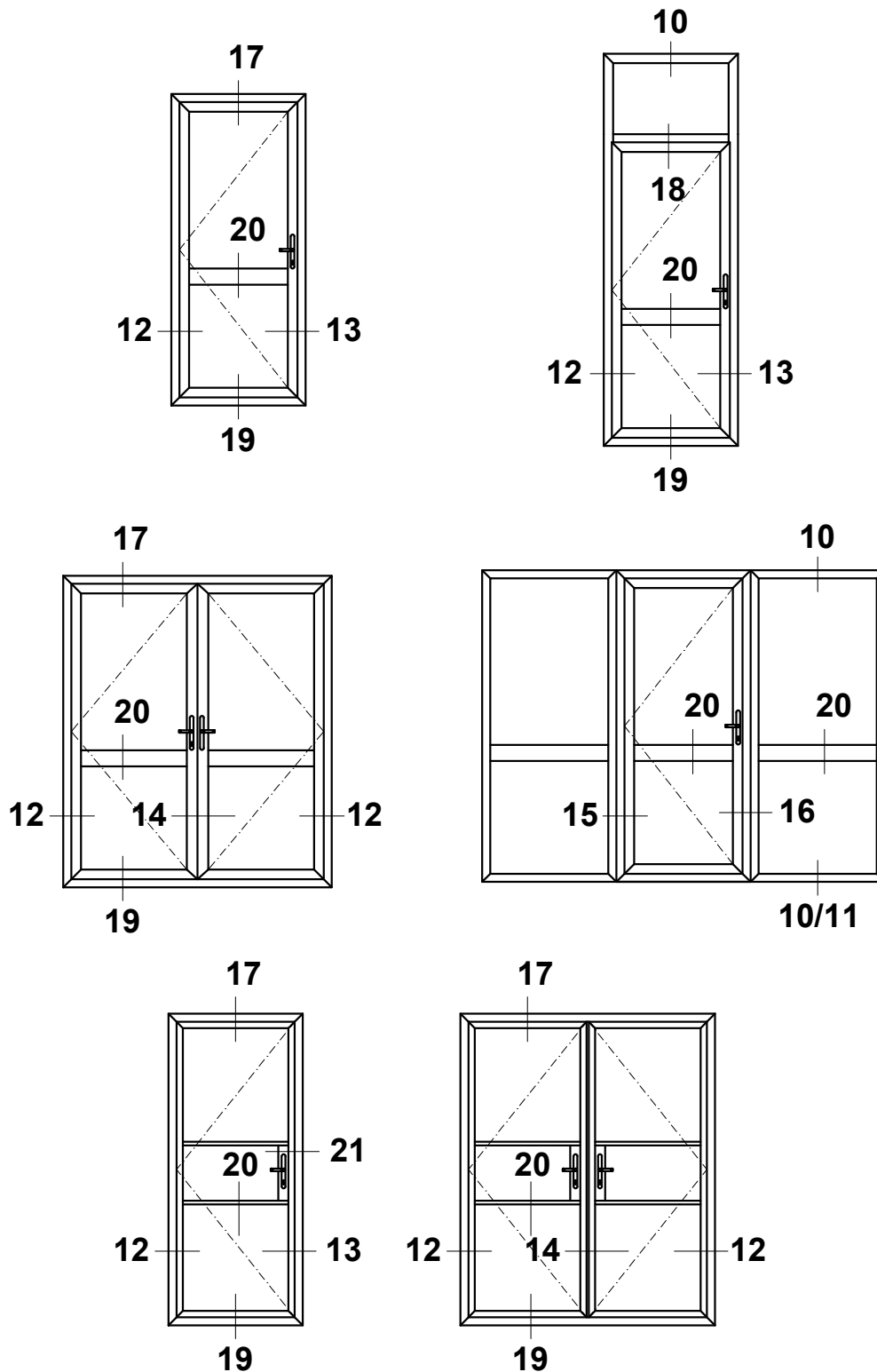


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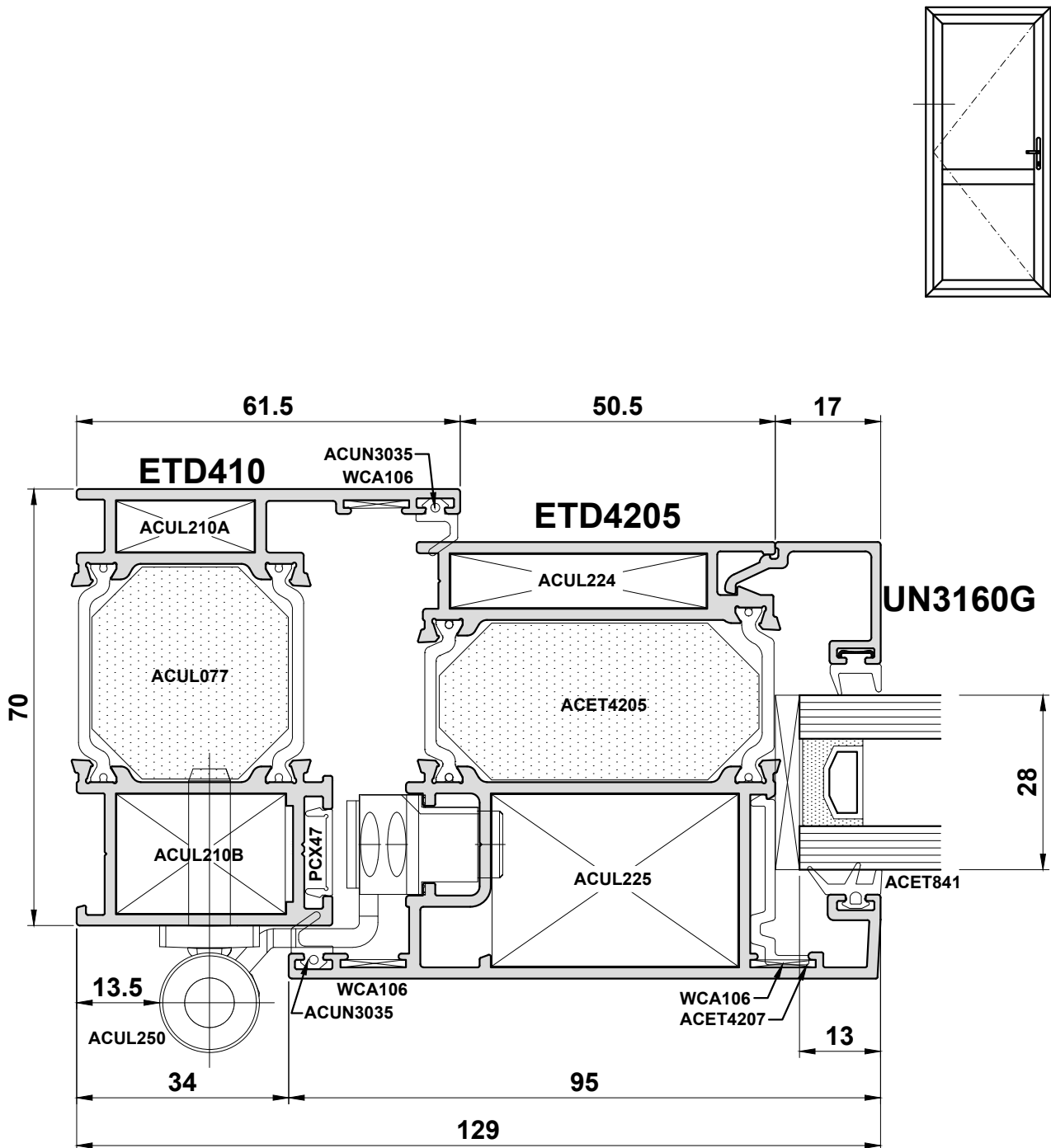
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Open Out Quick-Glaze Bead - Elevations



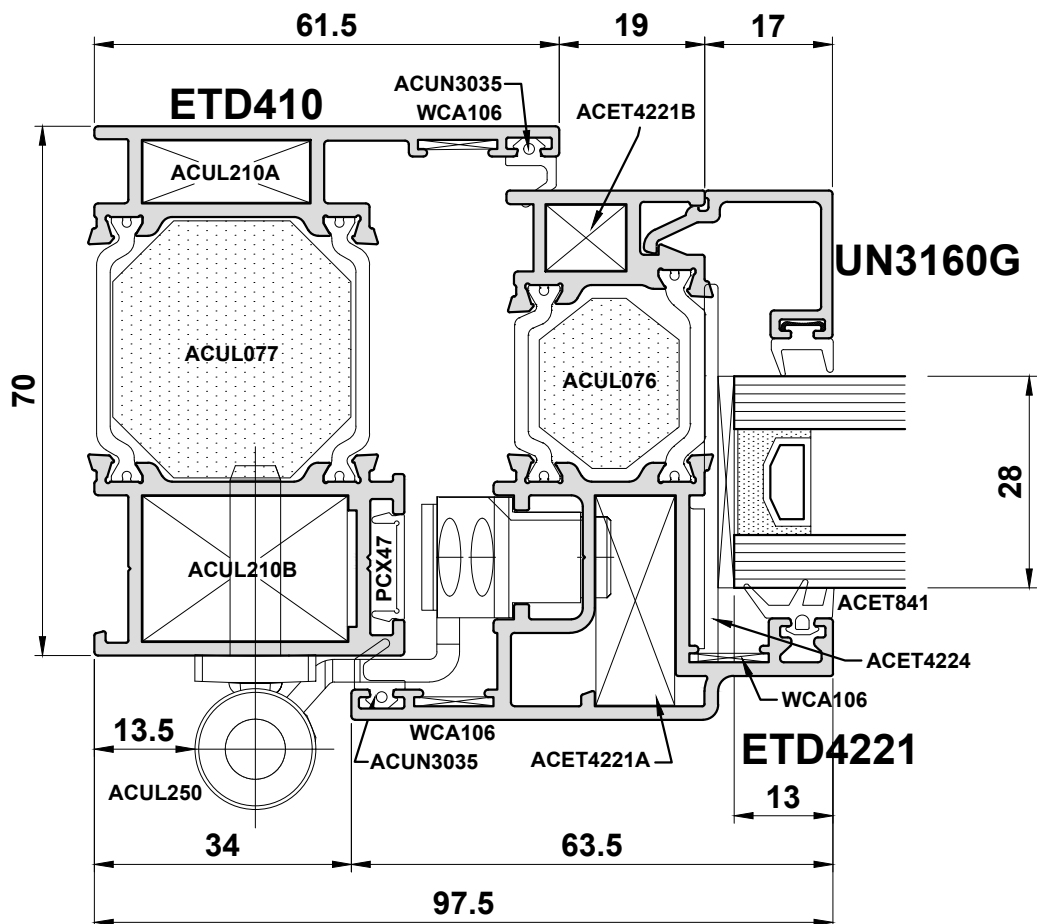
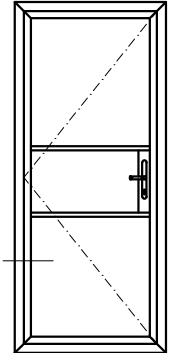
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Open Out - Detail 12a



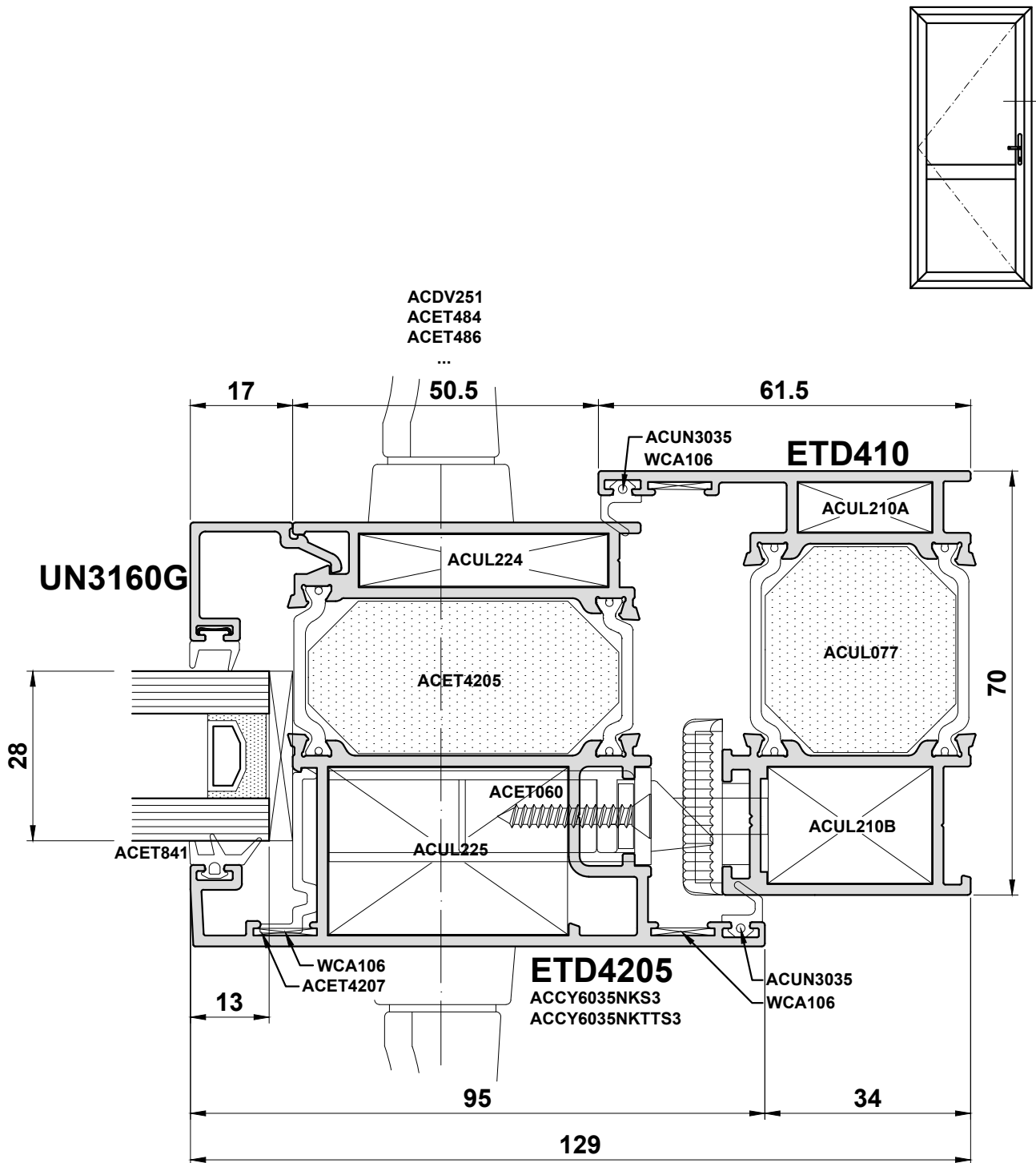
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Heritage Open Out - Detail 12b



Do Not Scale From This Drawing

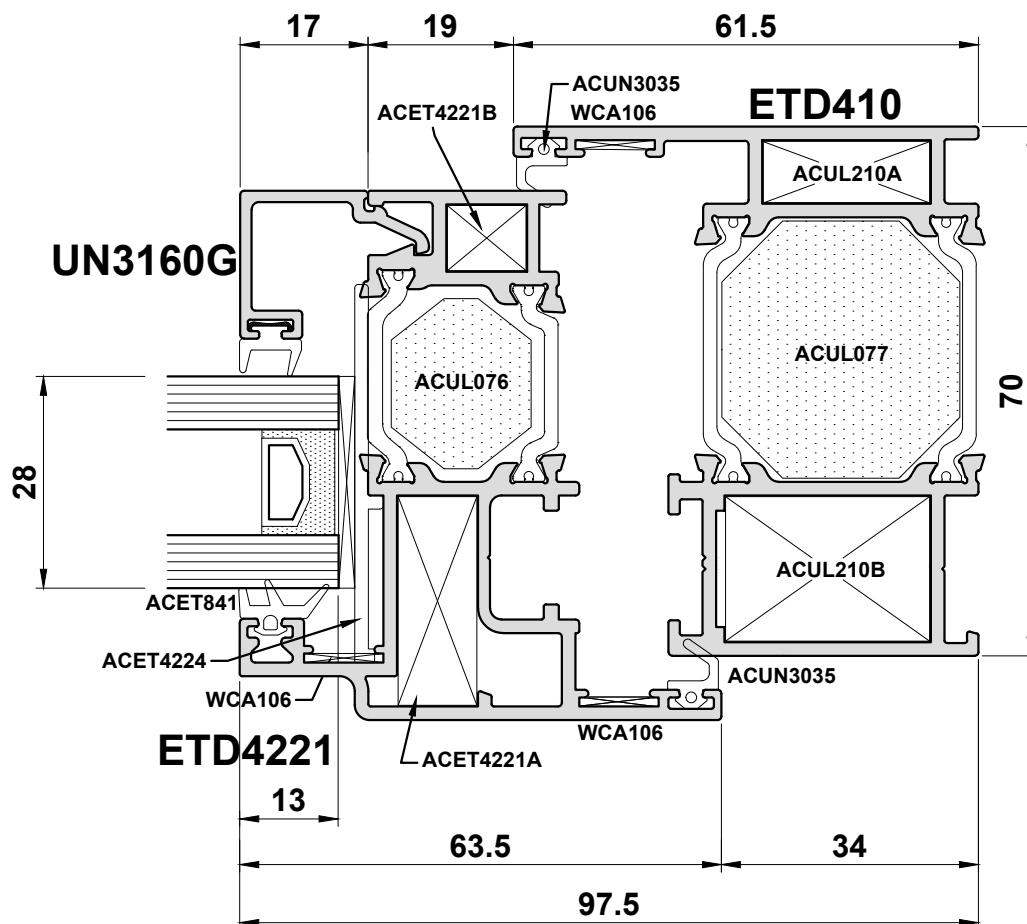
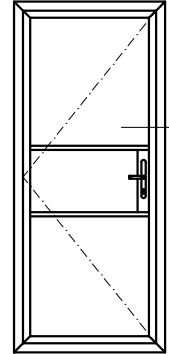
Open Out - Detail 13a



Do Not Scale From This Drawing

Alitherm 400 Stepped Door

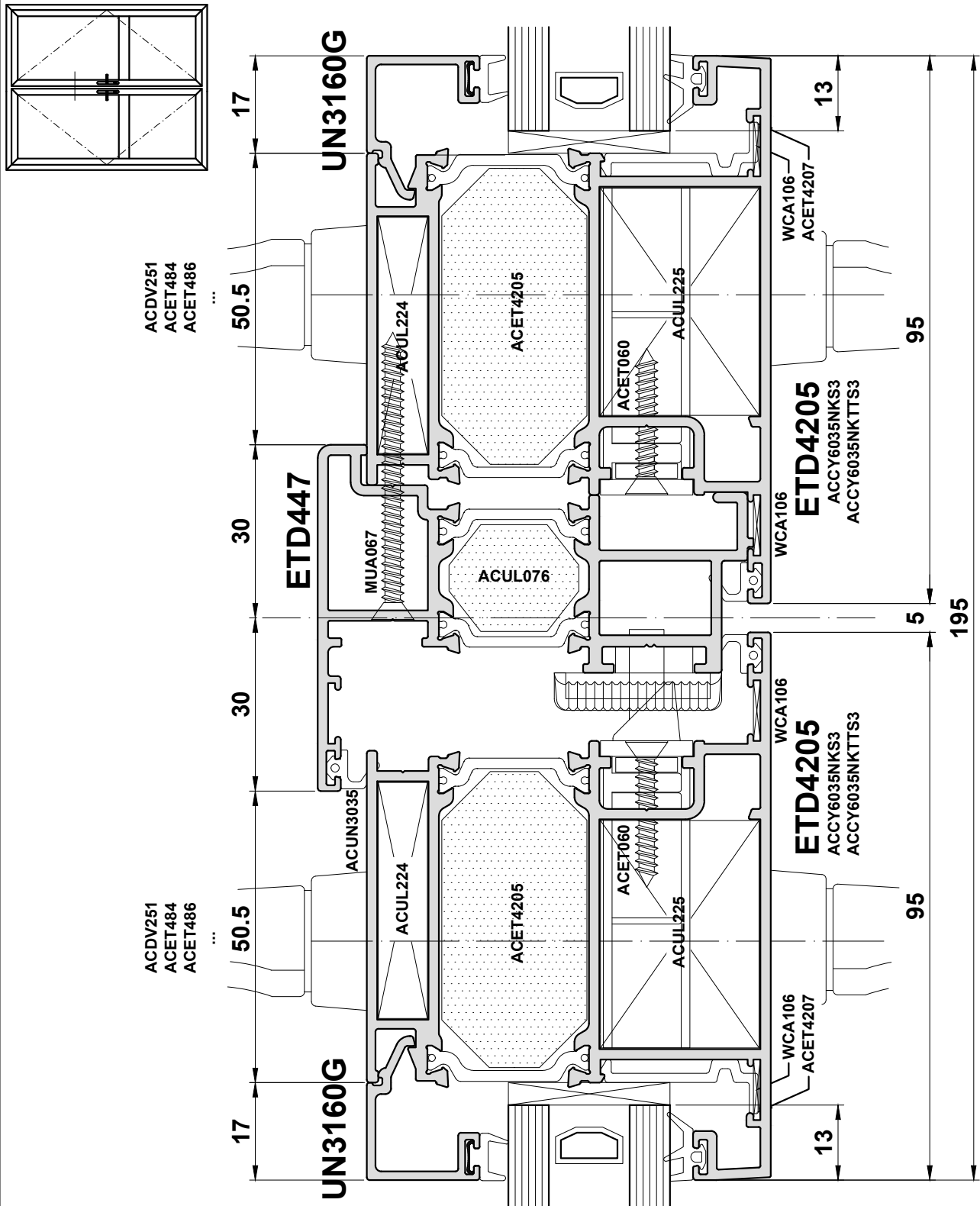
Heritage Open Out - Detail 13b



Do Not Scale From This Drawing

Alitherm 400 Stepped Door

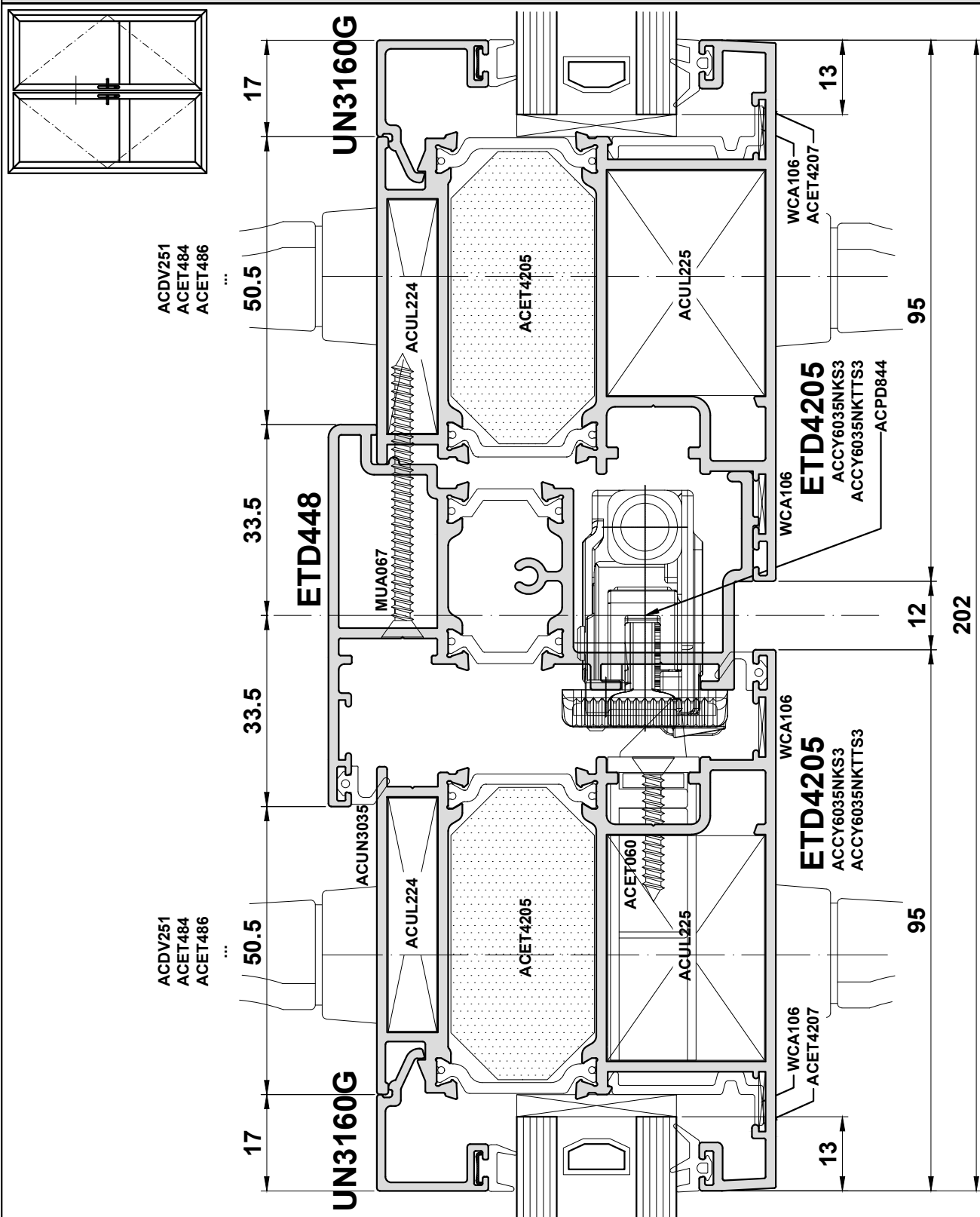
Open Out - Detail 14a



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Alitherm 400 Stepped Door

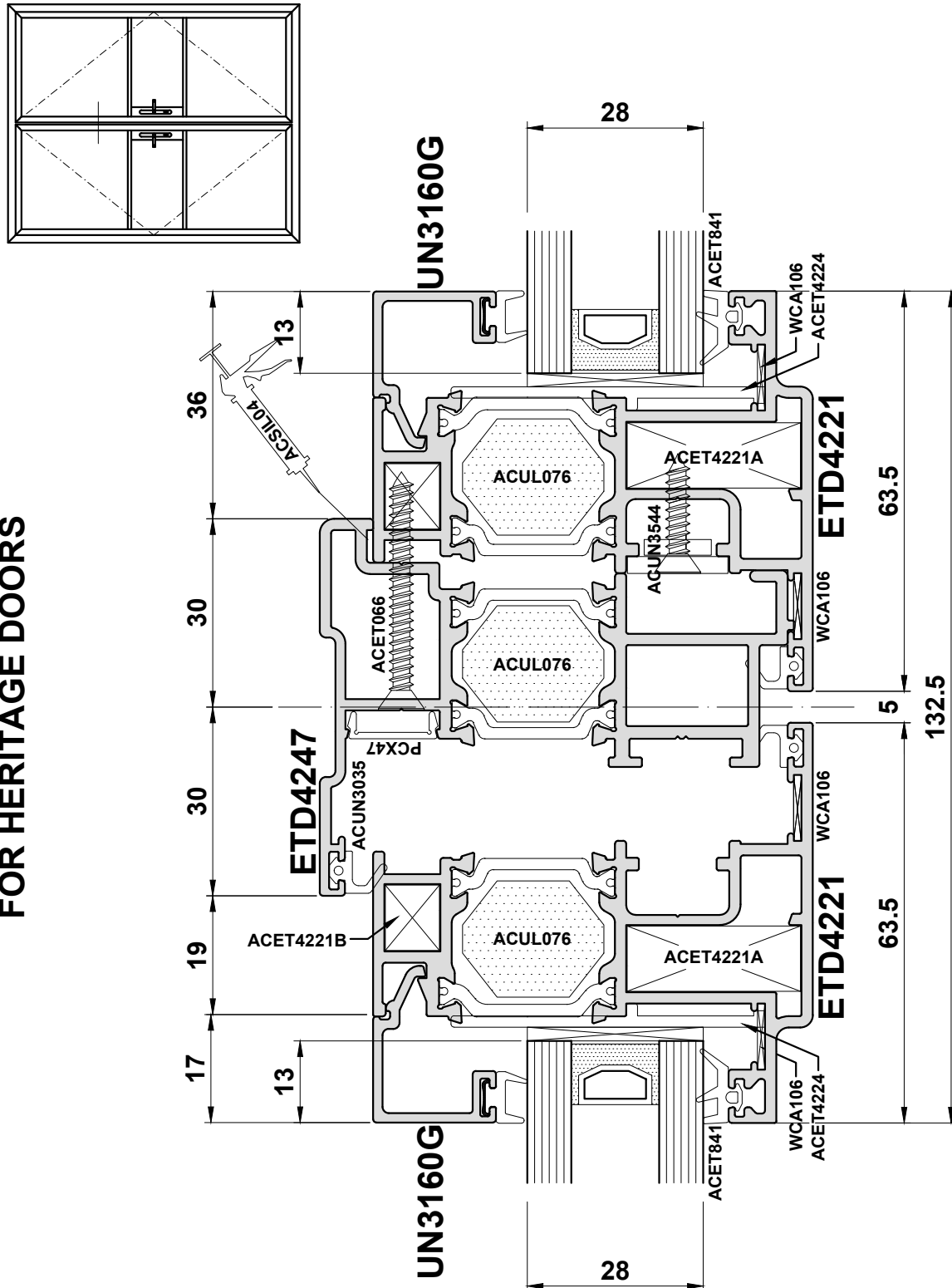
Open Out - Detail 14b



Do Not Scale From This Drawing

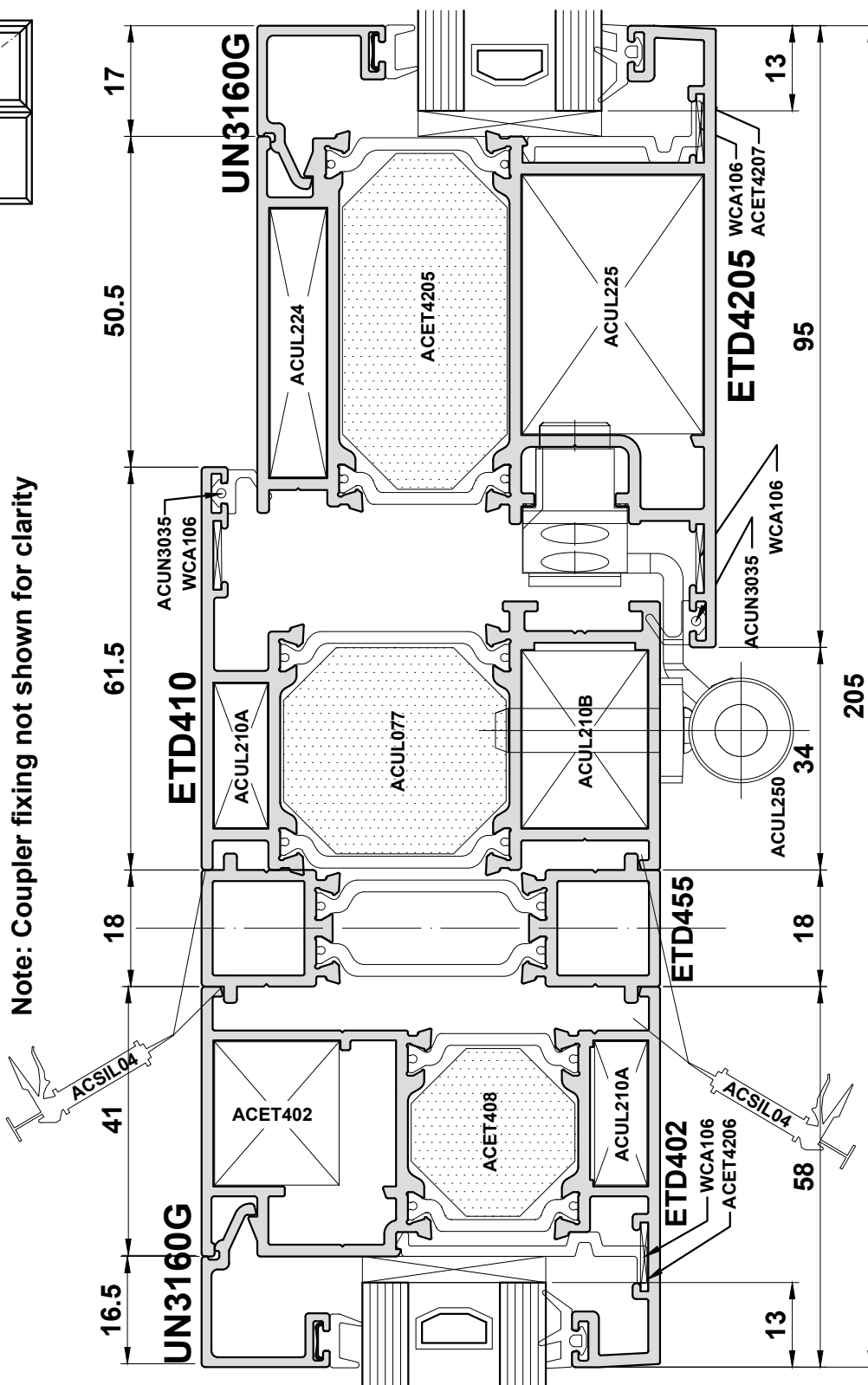
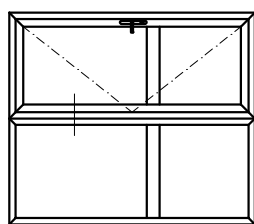
Heritage Open Out - Detail 14c

**ONLY USE ACW20465 LOCK & ACW20466 SECONDARY LOCK
FOR HERITAGE DOORS**



Do Not Scale From This Drawing

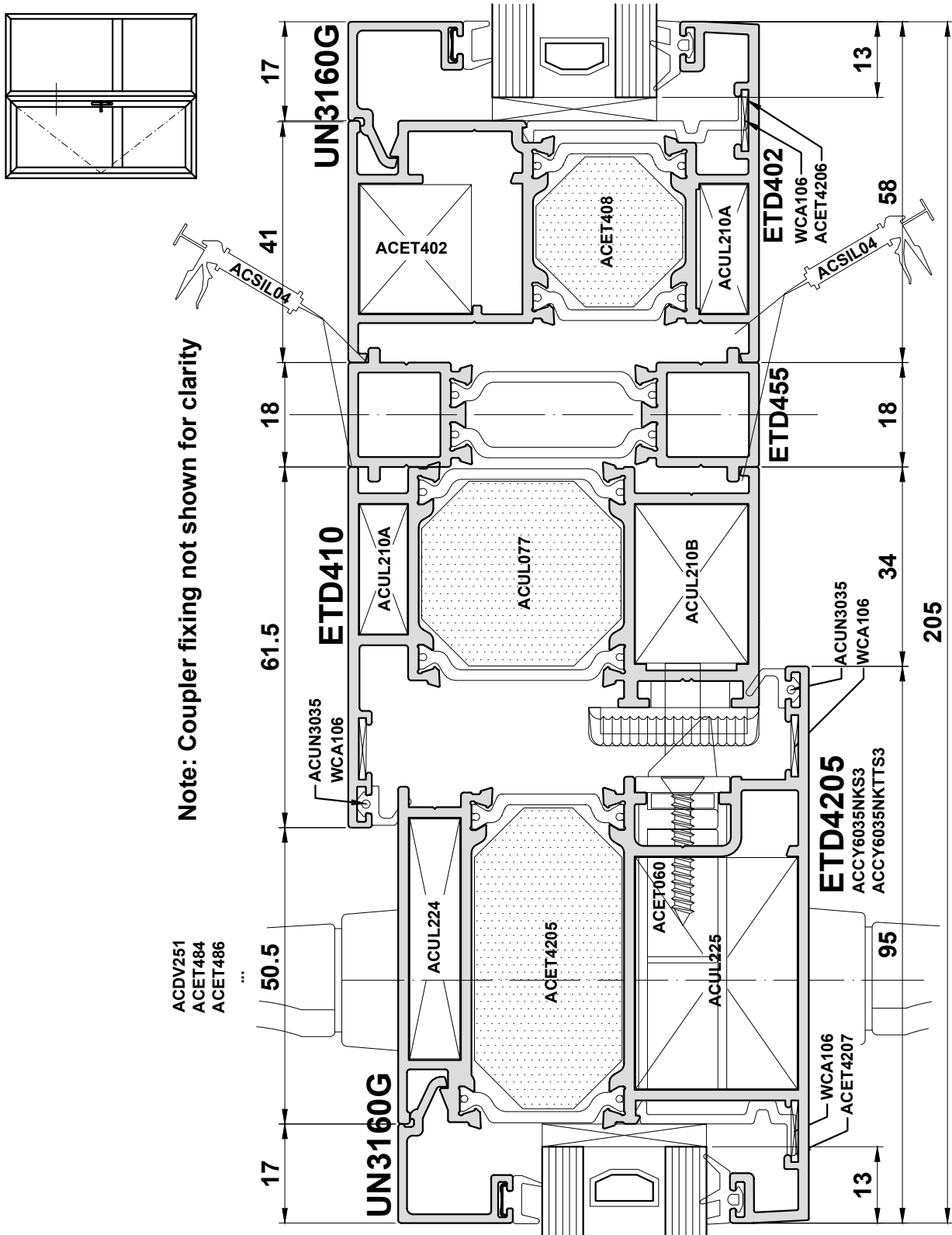
Open Out - Detail 15



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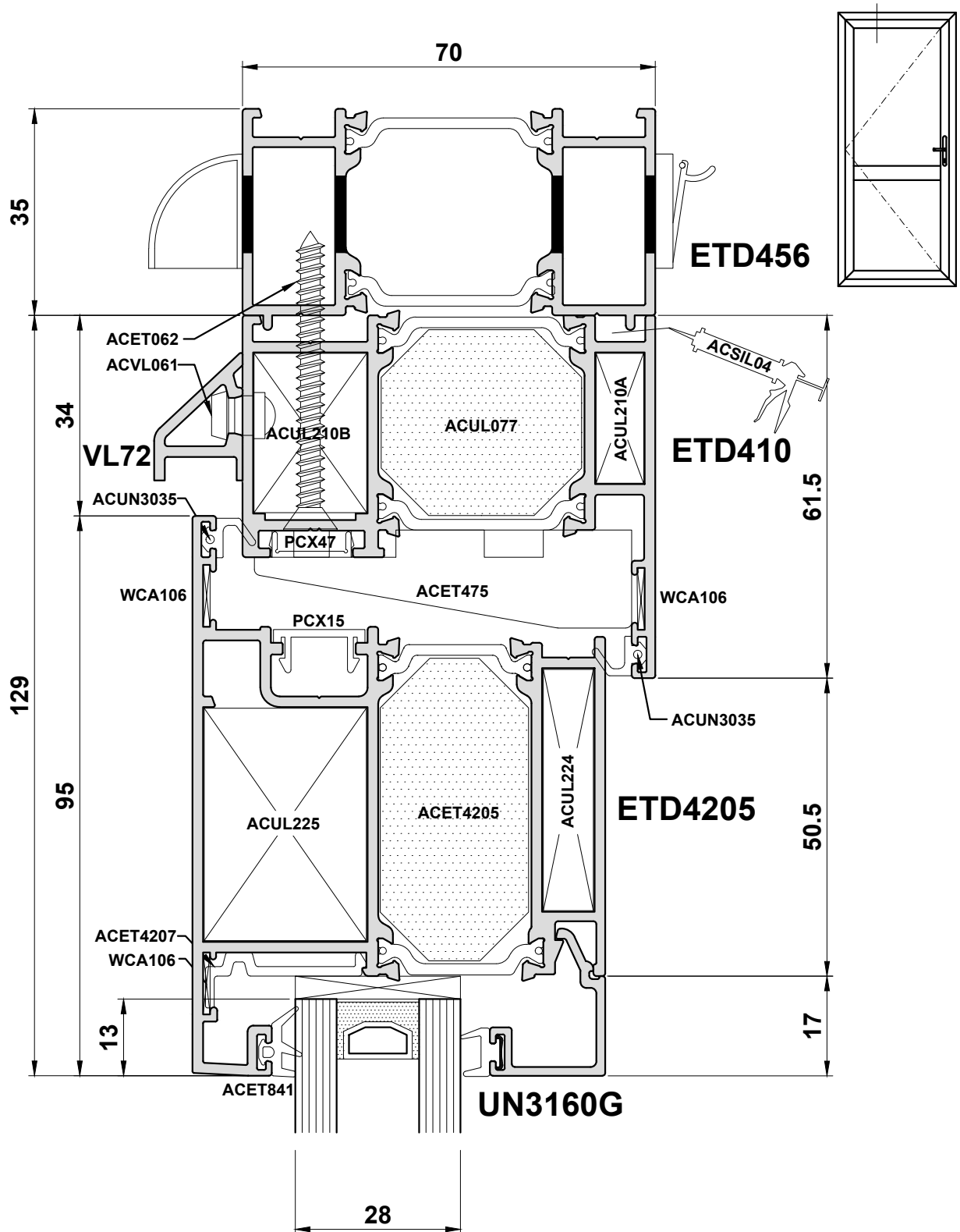
Alitherm 400 Stepped Door

Open Out - Detail 16



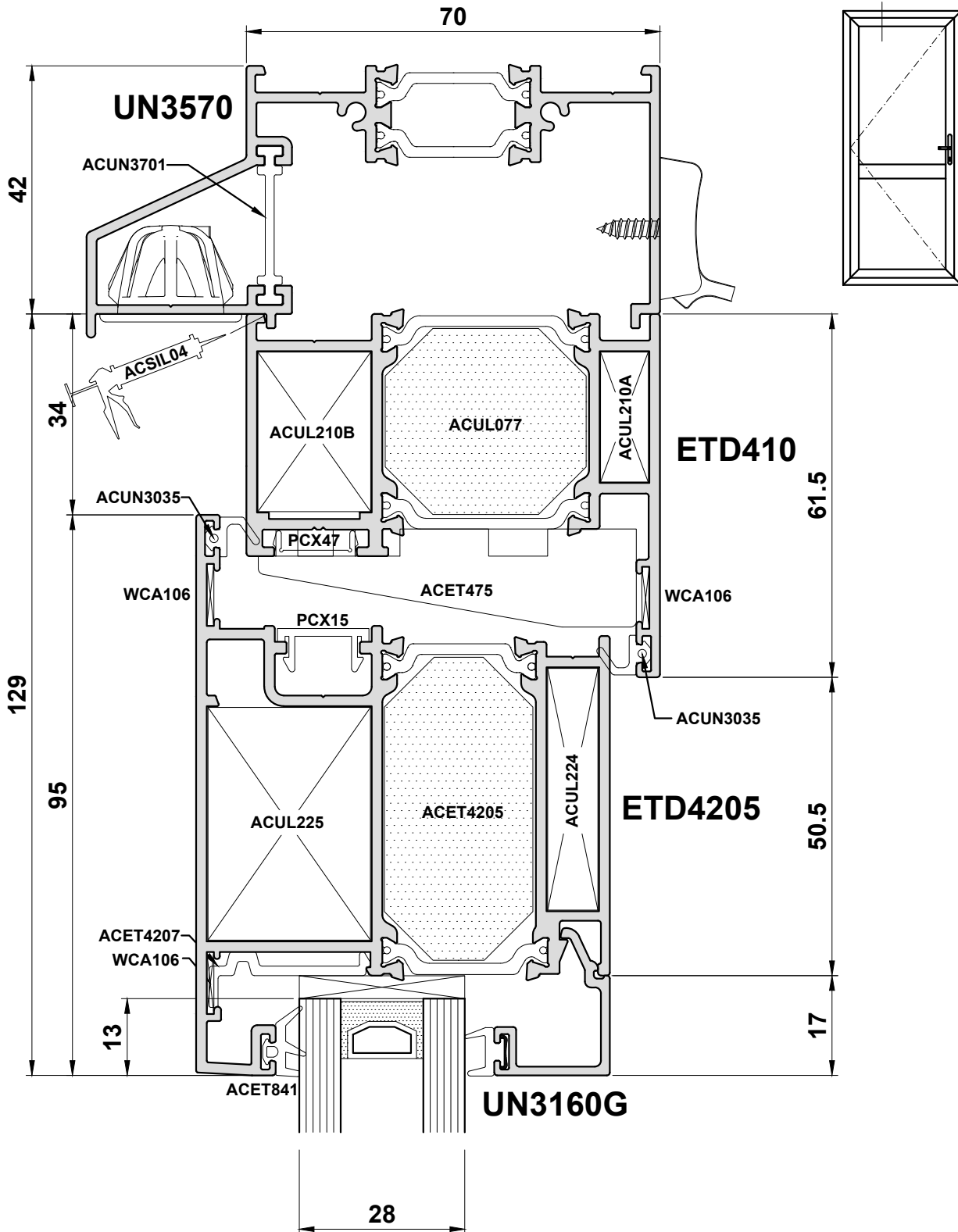
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Open Out - Detail 17a



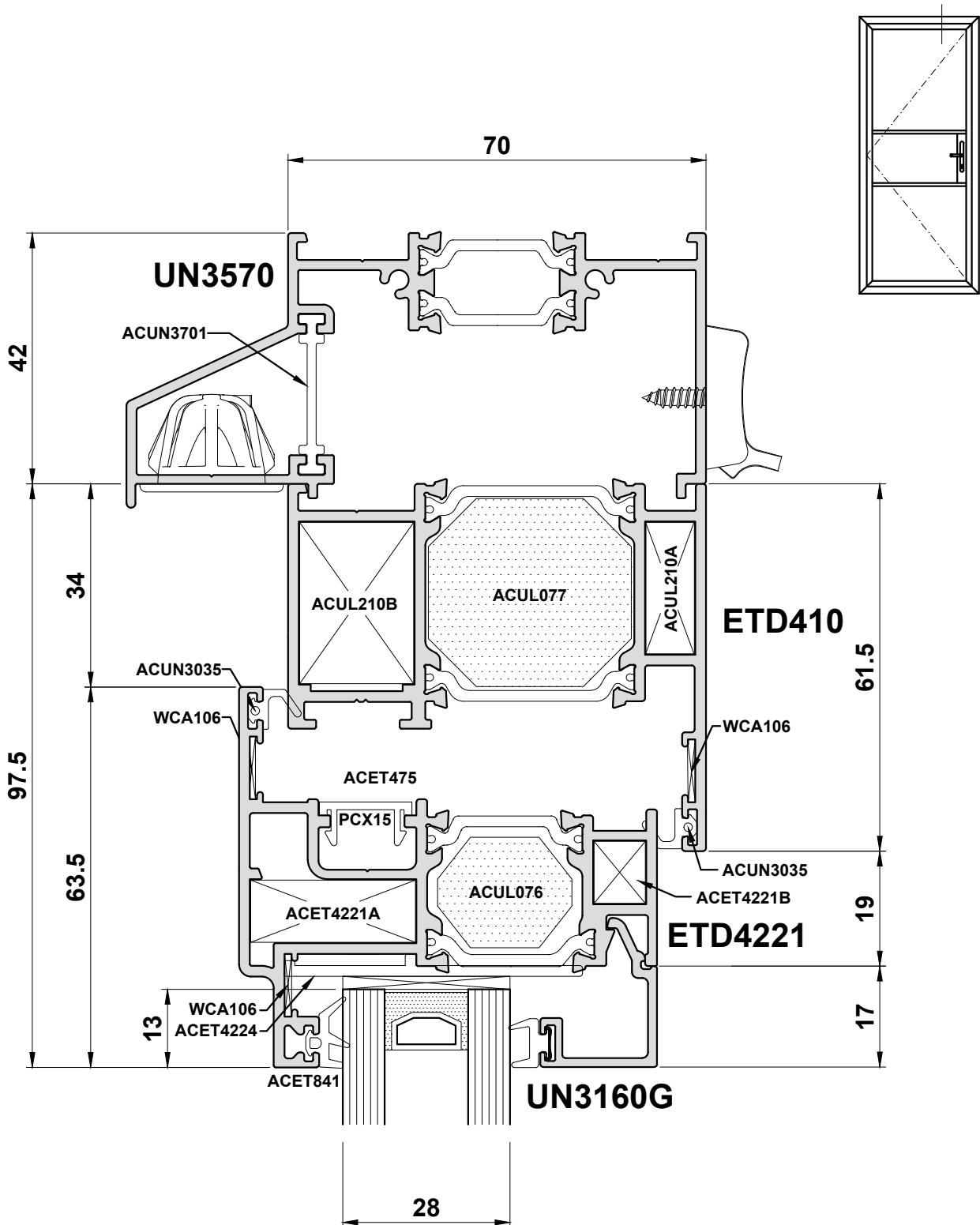
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Open Out - Detail 17b



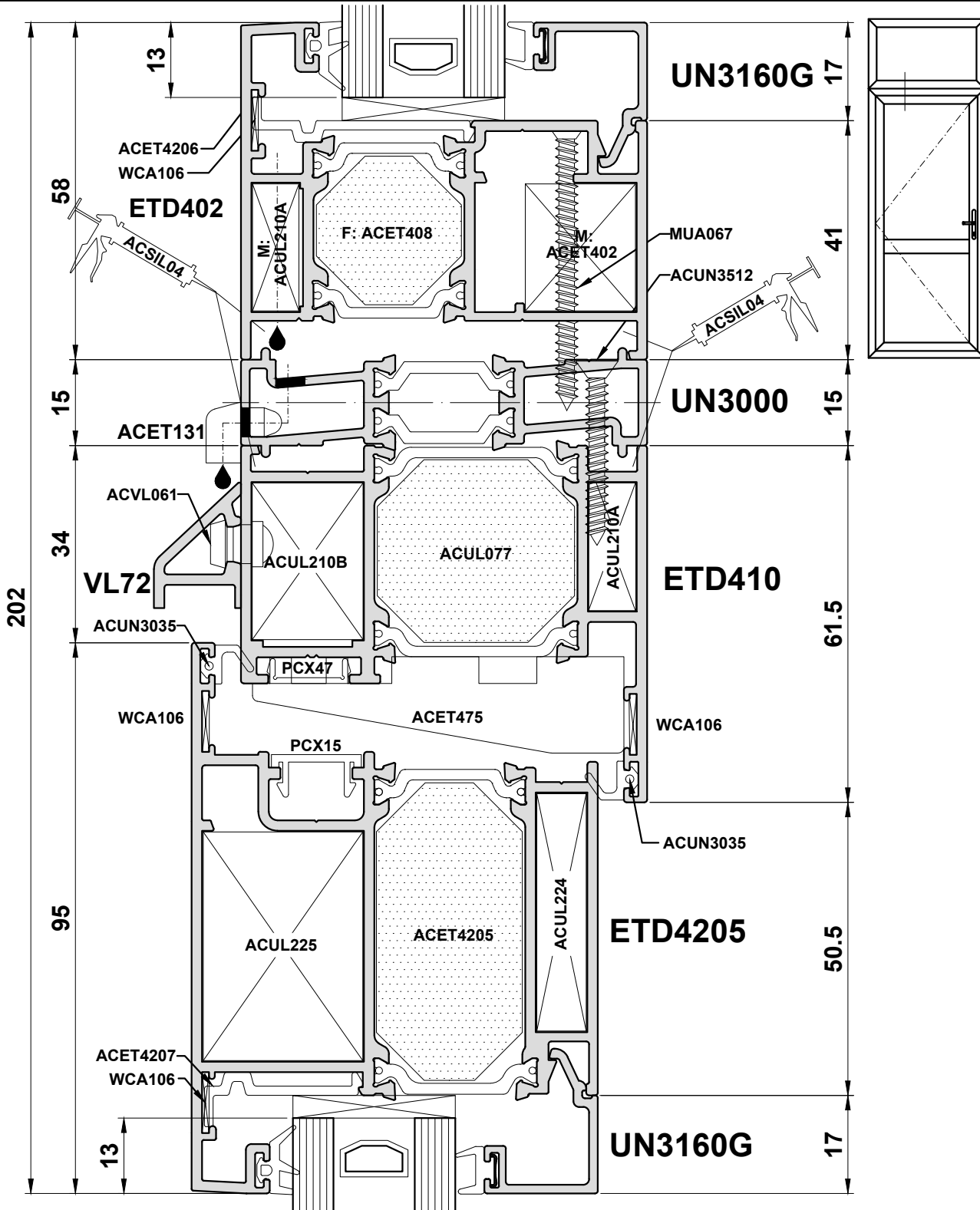
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Heritage Open Out - Detail 17b



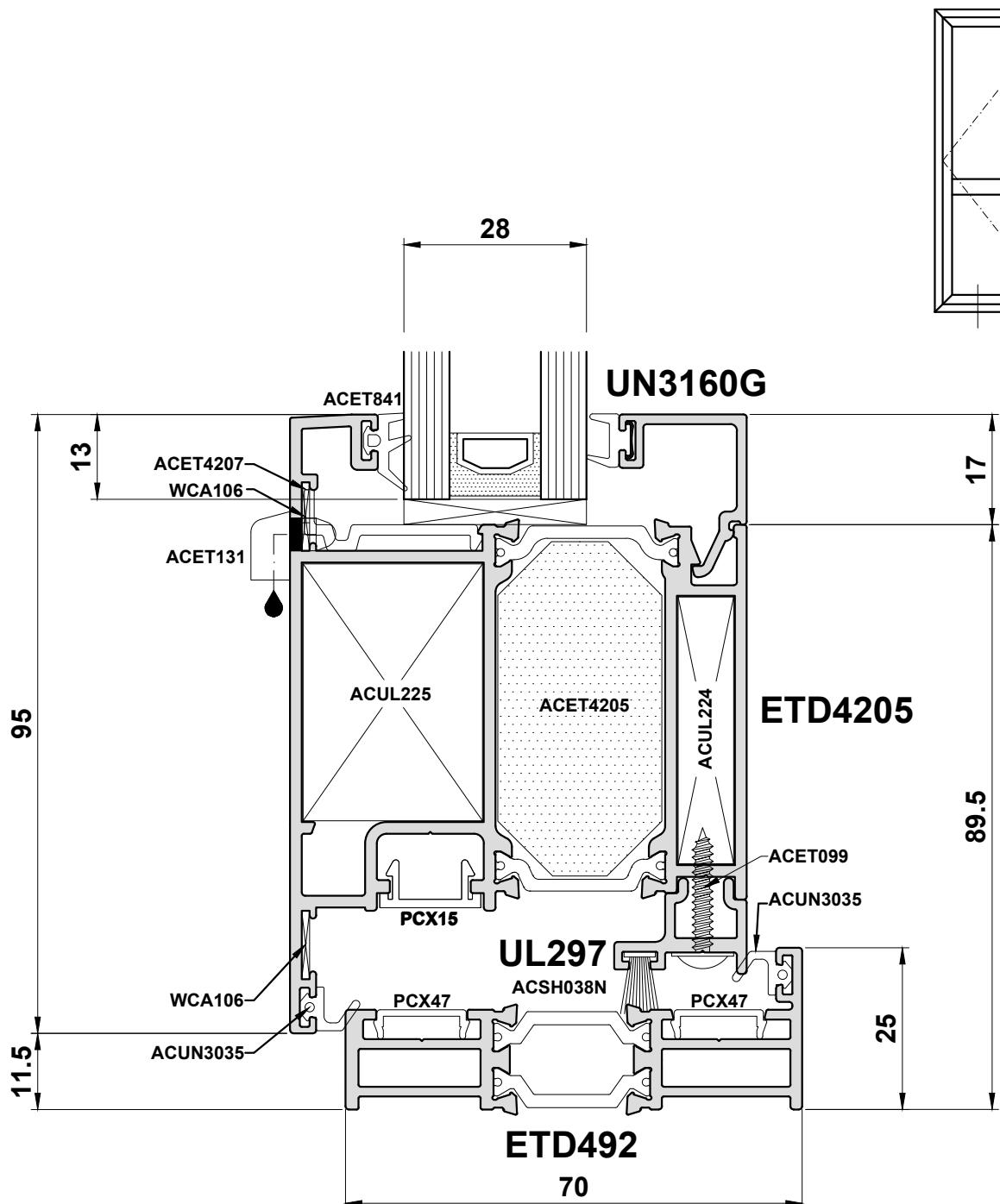
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Open Out - Detail 18



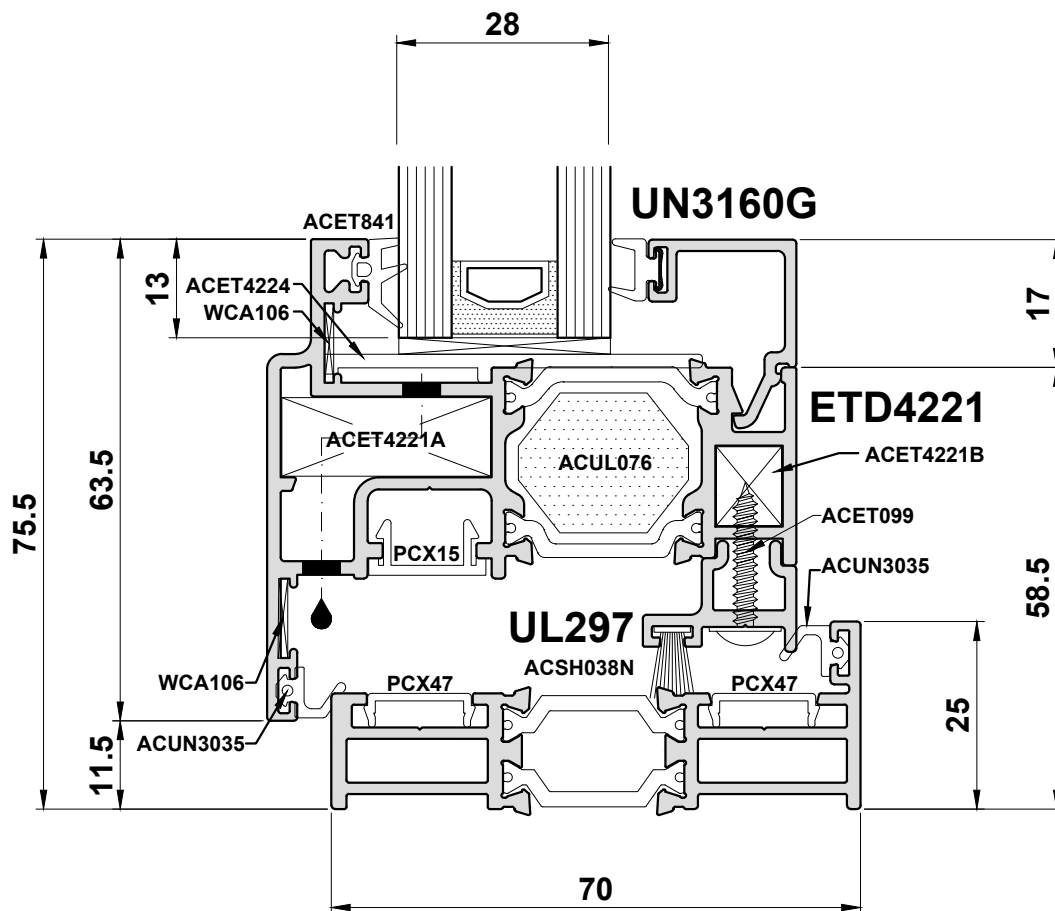
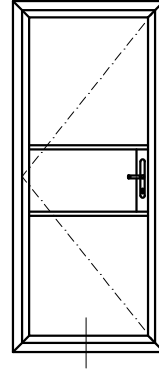
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Open Out - Detail 19a



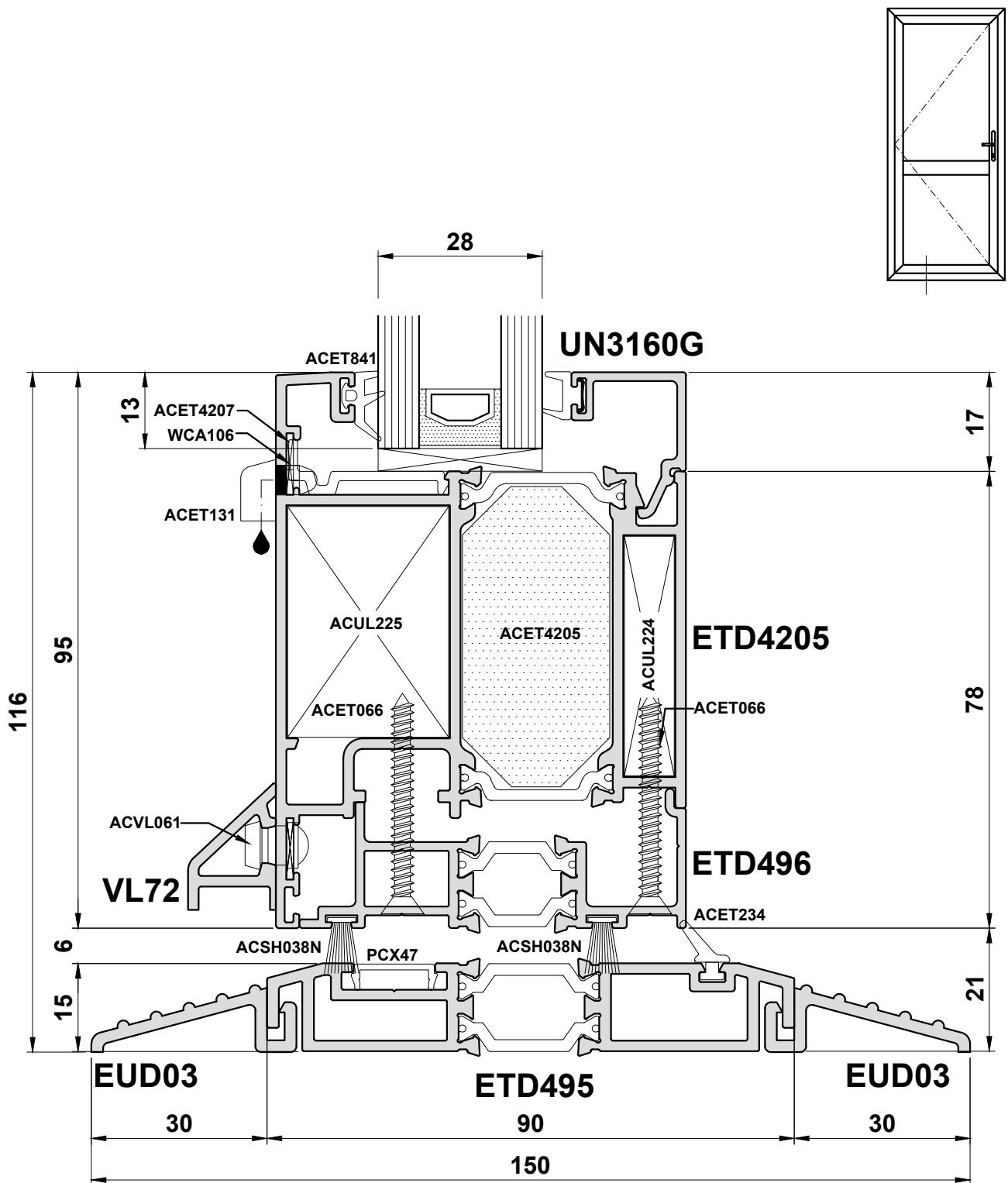
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Heritage Open Out - Detail 19e



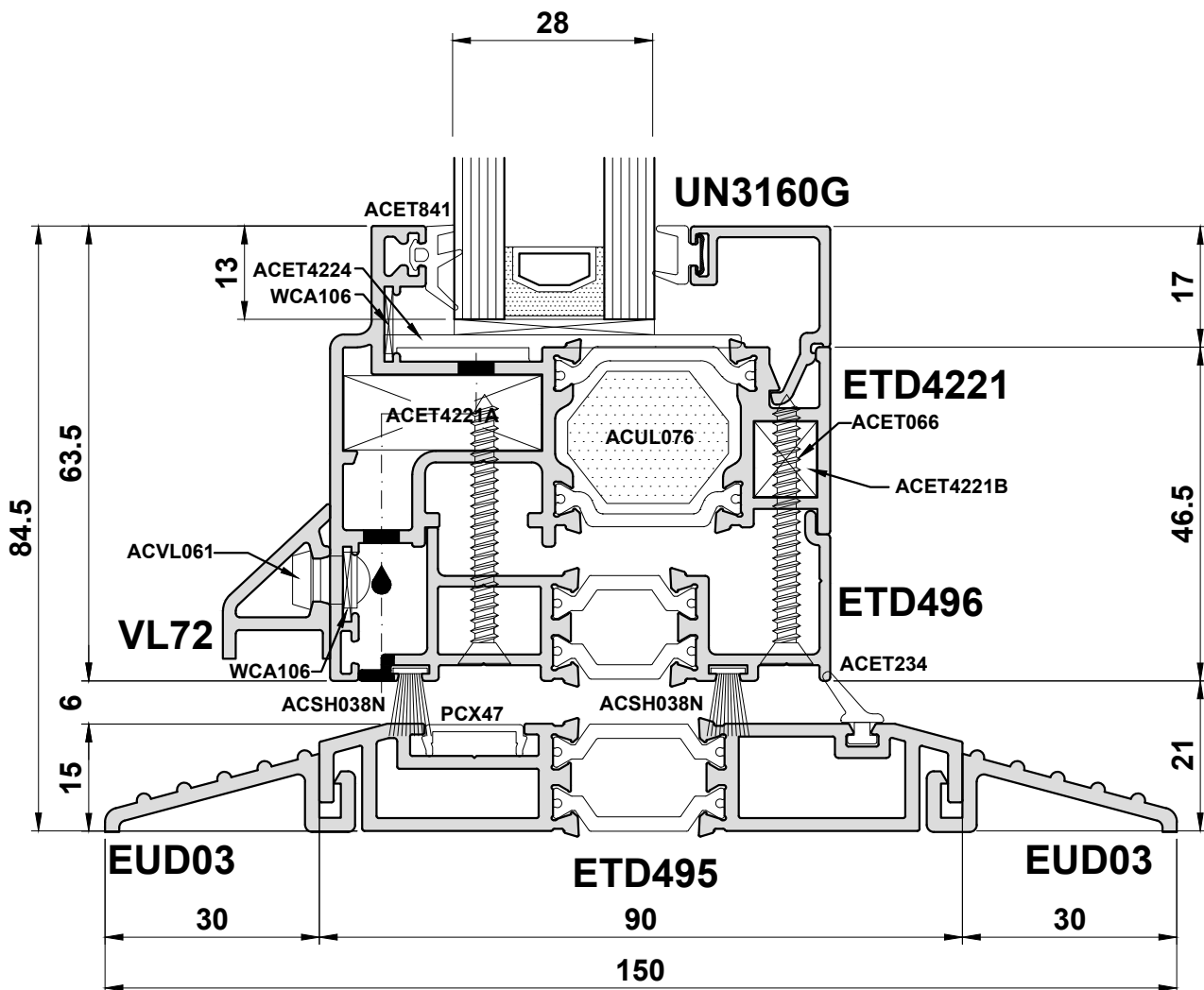
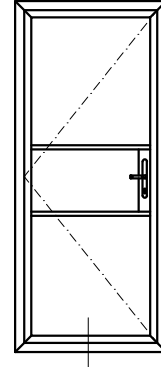
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Open Out - Detail 19b



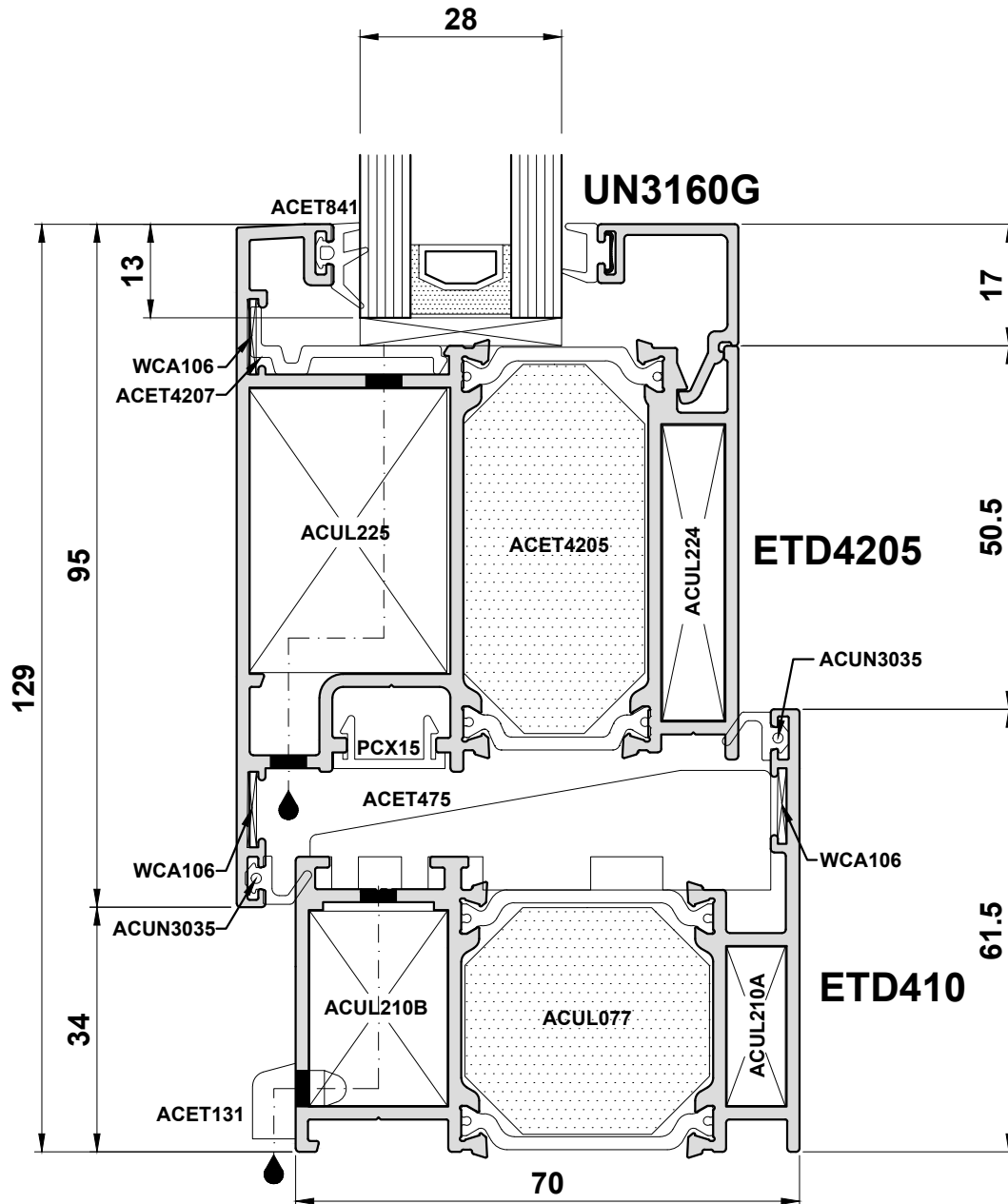
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Heritage Open Out - Detail 19f



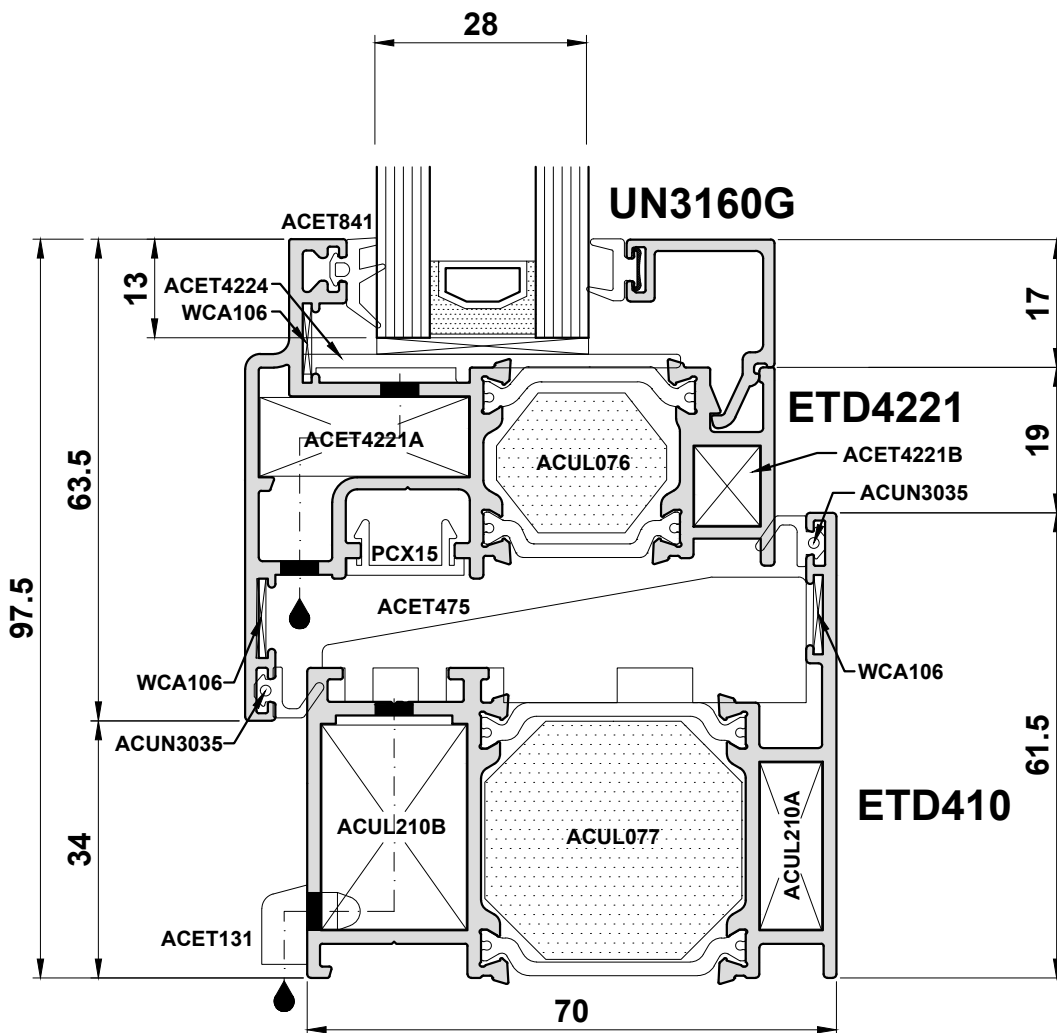
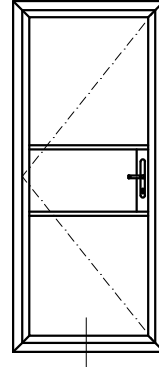
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Open Out - Detail 19c



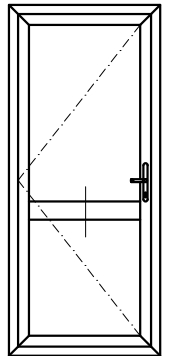
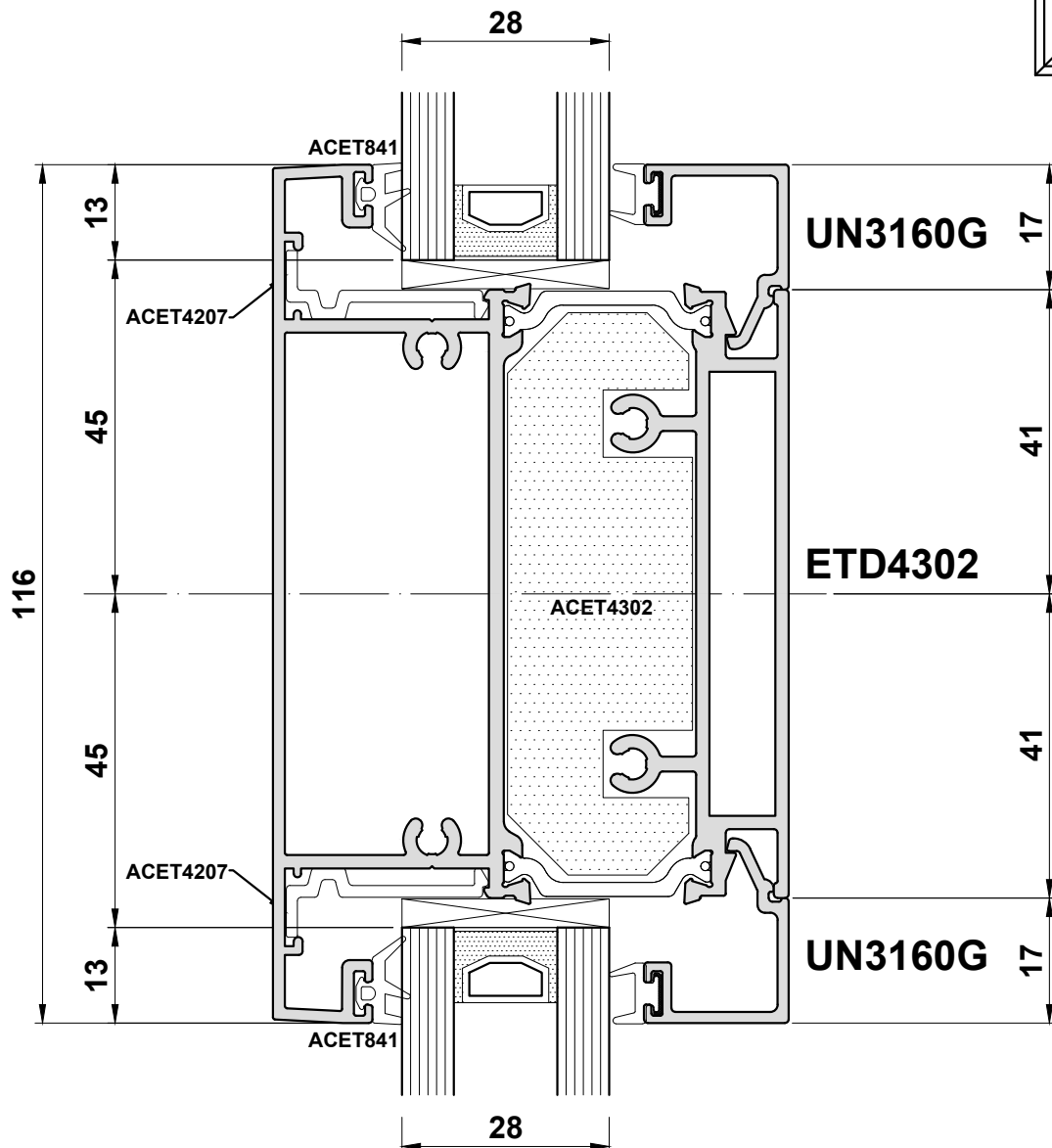
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Heritage Open Out - Detail 19d



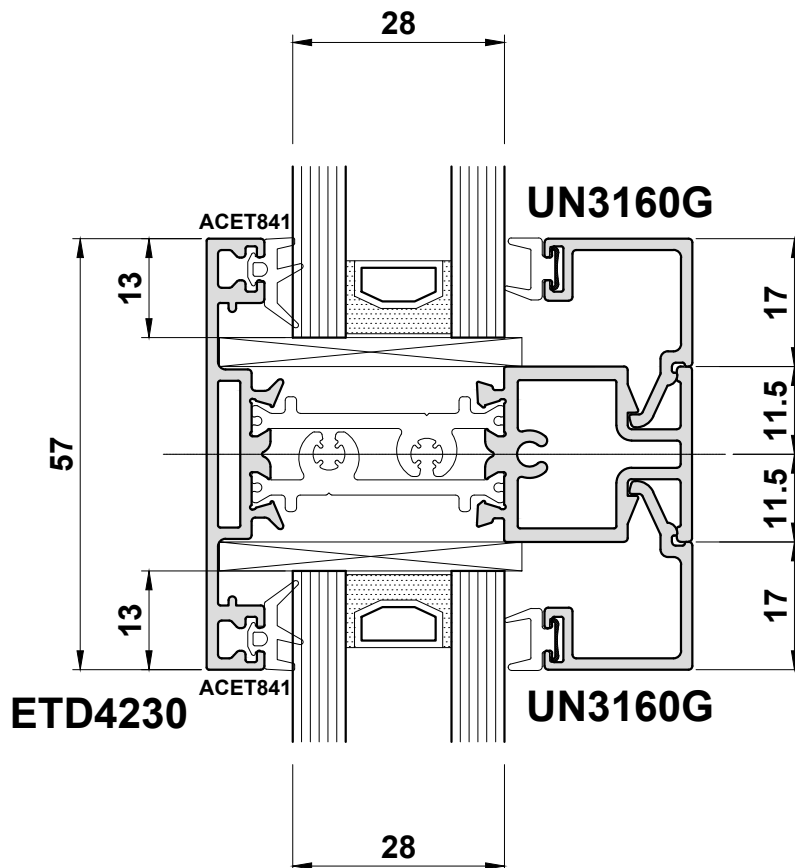
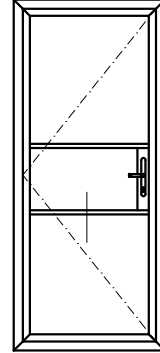
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Open In - Detail 20a



Do Not Scale From This Drawing

Heritage Open Out - Detail 20b



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Section D

Statics

Open Out & In

General Size Limitations are shown on Page A02.

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

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Section E

E ETD

Construction Drawings - Open In

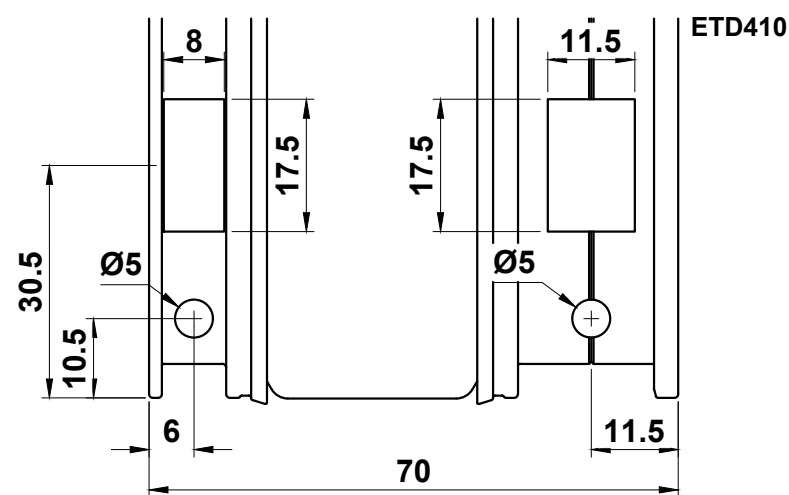
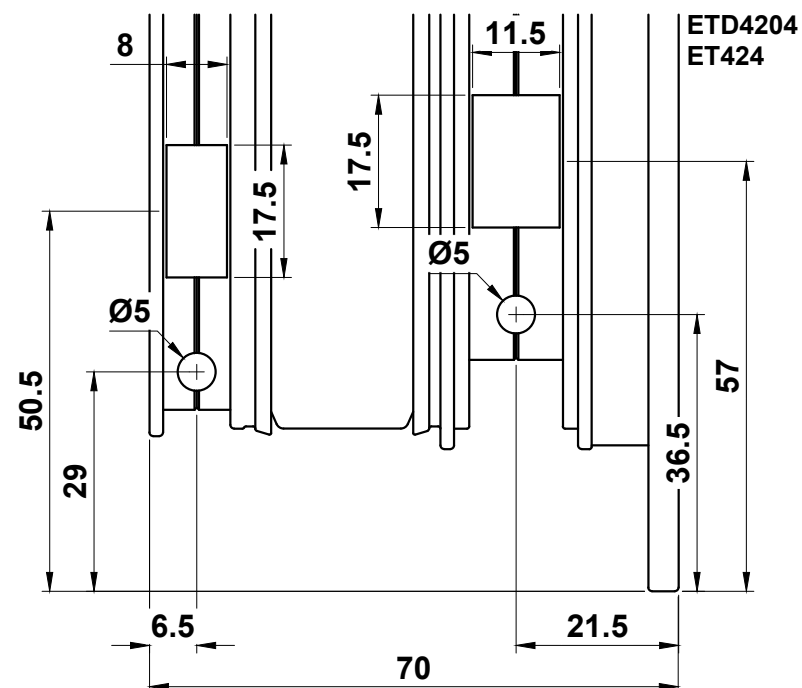
Corner Joint Detail.....	E03	Heritage ACW20367 Door Keep Position Guide.	E29
Corner Crimping.....	E04	Heritage ACW20066 L/R Door Centre Keep Prep	E30
ACUL900 Punch Tool	E05	Lift Lever Shootbolt Layout.....	E31
Low Rebate Threshold Assembly.....	E06	Heritage Double Door L/Lever Shootbolt Layout	E32
Low Ramp Threshold Assembly.....	E07	Heritage ACW20367 Floating Mullion Install.....	E33
Drainage.....	E08 - E09	Lift Lever Full Frame Preparation.....	E34 - E35
Sub Cill Drainage.....	E10	Lift Lever Low Rebate Preparation.....	E36 - E37
Standard Bead Transom Assembly.....	E11 - E12	Lift Lever Low Ramp Preparation.....	E38 - E39
Quick-Glaze Bead Transom Assembly.....	E13	ACUL267 & ACUL268 Lock Preparation.....	E40
Panel Door Details.....	E14	Fingerbolt Full Frame Preparation.....	E41 - E42
Door Locking Hardware Options.....	E15	Fingerbolt Low Rebate Preparation.....	E43 - E44
Lock Overview of Single and Double Doors.....	E16	Fingerbolt Low Ramp Preparation.....	E45 - E46
Heritage Single Door Hardware Options.....	E17	Heritage Fingerbolt Full Frame Preparation.....	E47
Heritage Double Door Hardware Options.....	E18	Heritage Fingerbolt Low Rebate Preparation.....	E48
Hinge Preparation.....	E19	Heritage Fingerbolt Low Ramp Preparation.....	E49
ACUL478 Surface Fixed Closer & Slide Arm ...	E20	Letter Plate Fitting.....	E50
Single Door Lock Preparation.....	E21	Glazing Chart.....	E51 - E54
Single Door Shootbolt Detail.....	E22	Glazing Details.....	E55
Electric Strike Details.....	E23	Quick-Glaze Bead.....	E56 - E57
Single Point Lock & Internal Lever Handle Prep	E24	Glass Adjuster.....	E58
Stainless Steel Hardware.....	E25	Fixing Strap Detail.....	E59
ACSM020 & ACSM021 Fitting Detail.....	E26	Example Layout.....	E60
Heritage Open In Door Lock Preparation.....	E27	Restrictor Fitting.....	E61
Heritage Open In Door Handle Preparations...	E28	Trickle Vent.....	E62

Section E

Construction Drawings - Open Out

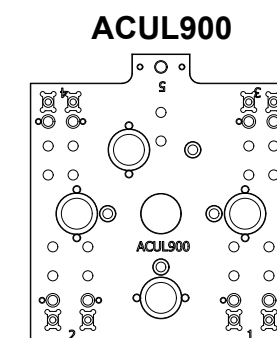
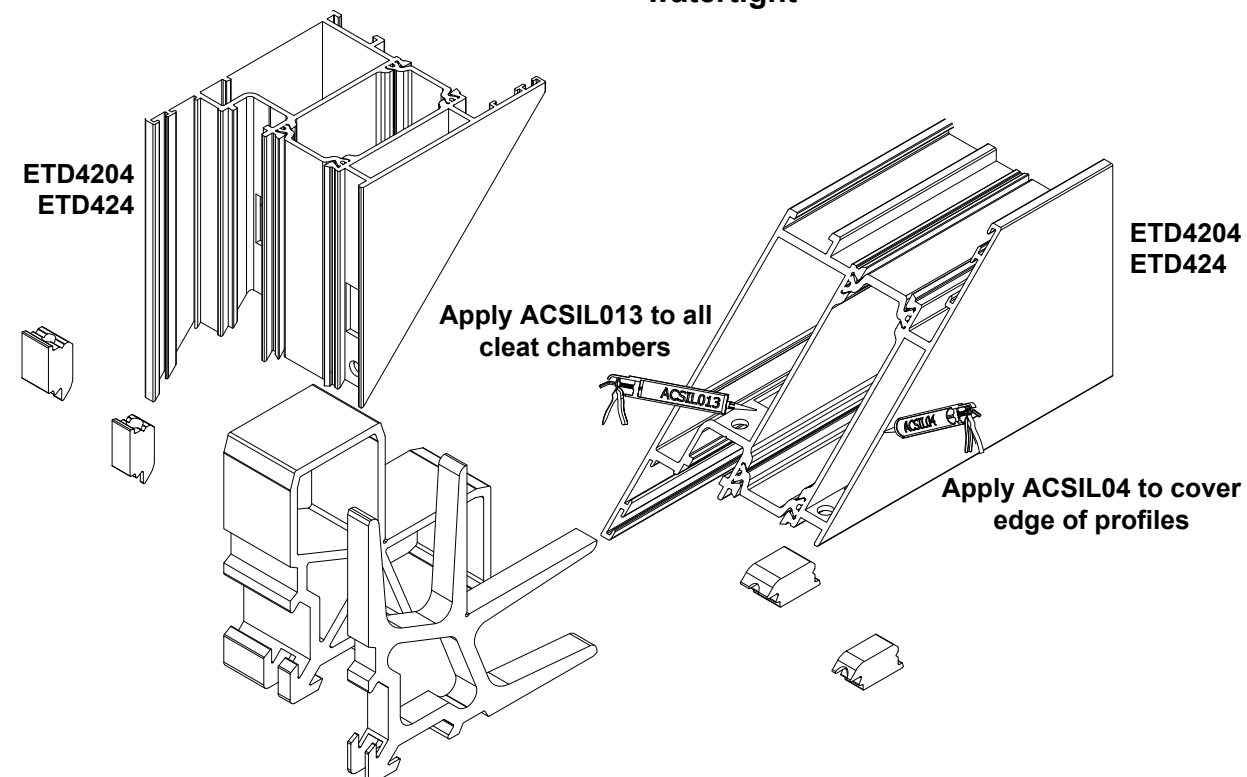
Corner Joint Detail.....	E65	Heritage ACW20066 L/R Door Centre Keep Prep	E91
Corner Crimping.....	E66	Lift Lever Shootbolt Layout.....	E92
ACUL900 Punch Tool	E67	Heritage Double Door L/Lever Shootbolt Layout	E93
Low Rebate Threshold Assembly.....	E68	Heritage ACW20367 Floating Mullion Install.....	E94
Low Ramp Threshold Assembly.....	E69	Lift Lever Full Frame Preparation.....	E95 - E96
Drainage.....	E70 - E71	Lift Lever Low Rebate Preparation.....	E97 - E98
Sub Cill Drainage.....	E72	Lift Lever Low Ramp Preparation.....	E99 - E100
Quick-Glaze Bead Transom Assembly.....	E73	ACUL267 & ACUL268 Lock Preparation.....	E101
Door Locking Hardware Options.....	E74	Fingerbolt Full Frame Preparation.....	E102 - E103
Lock Overview of Single and Double Doors.....	E75	Fingerbolt Low Rebate Preparation.....	E104 - E105
Panic Bar Hardware Overview.....	E76	Fingerbolt Low Ramp Preparation.....	E106 - E107
Heritage Single Door Hardware Options.....	E77	Heritage Fingerbolt Full Frame Preparation.....	E108
Heritage Double Door Hardware Options.....	E78	Heritage Fingerbolt Low Rebate Preparation.....	E109
Hinge Preparation.....	E79	Heritage Fingerbolt Low Ramp Preparation.....	E110
ACUL478 Surface Fixed Closer & Slide Arm....	E80	Letter Plate Fitting.....	E111
Single Door Lock Preparation.....	E81	Glazing Chart.....	E112 - E114
Single Door Shootbolt Detail.....	E82	Glazing Details.....	E115
Electric Strike Details.....	E83	Quick-Glaze Bead.....	E116 - E117
Single Point Lock & Internal Lever Handle Prep	E84	Glass Adjuster.....	E118
Stainless Steel Hardware.....	E85	Fixing Strap Detail.....	E119
Panic Bar Preparation.....	E86	Example Layout.....	E120
Panic Lock Preparation.....	E87	Restrictor Fitting.....	E121
Heritage Open Out Door Lock Preparation.....	E88	Trickle Vent.....	E122
Heritage Open Out Door Handle Preparations...	E89		
Heritage ACW20367 Door Keep Position Guide.	E90		

Corner Joint Details



Notes

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



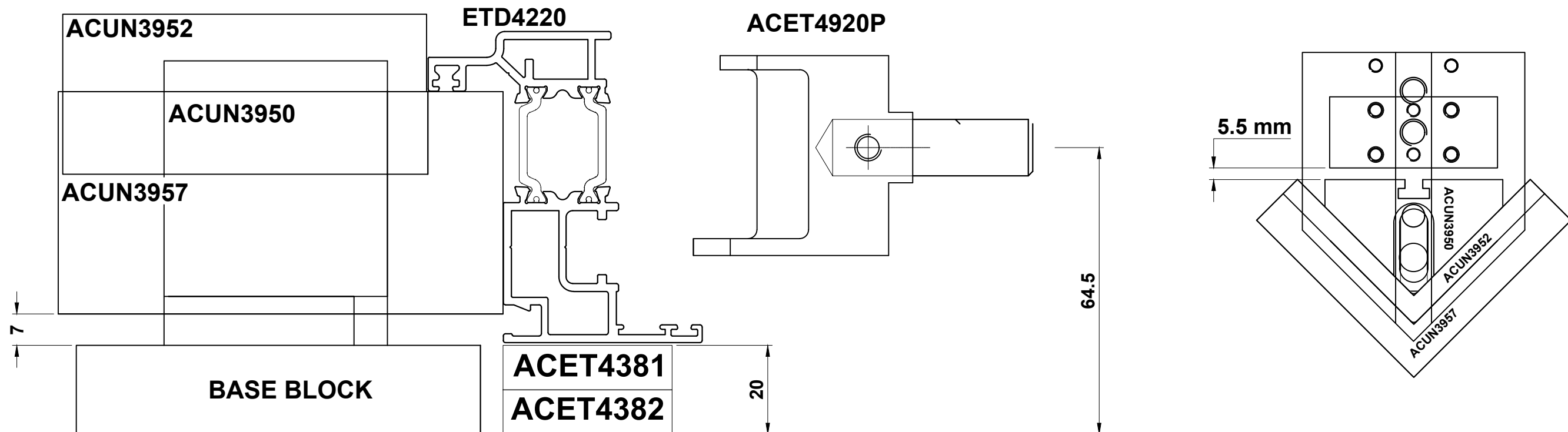
To ensure accurate corners, we recommend the use of support blocks (by others) whilst cutting.

Do Not Scale From This Drawing

Corner Crimping

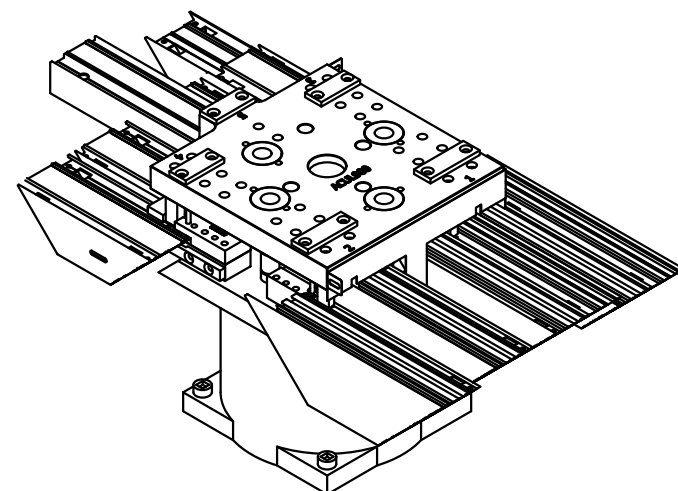
Manual Crimper = ACCR300

Pneumatic Crimper = ACCR200N

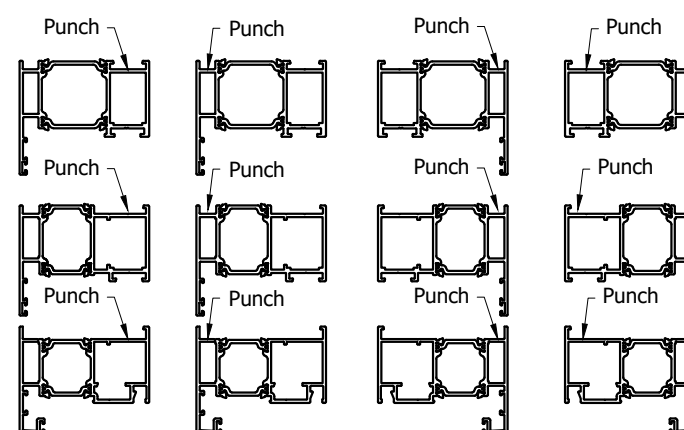


Please consult our Technical Department for support with alternative crimper models

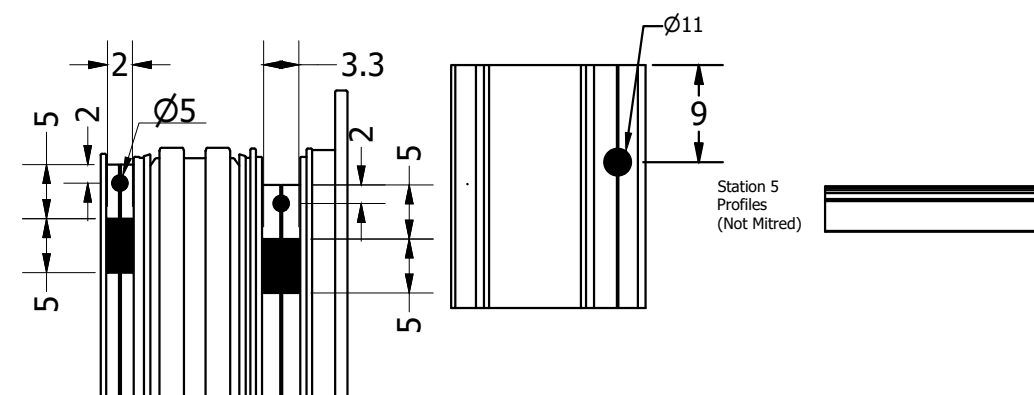
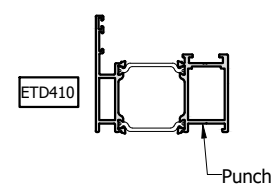
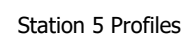
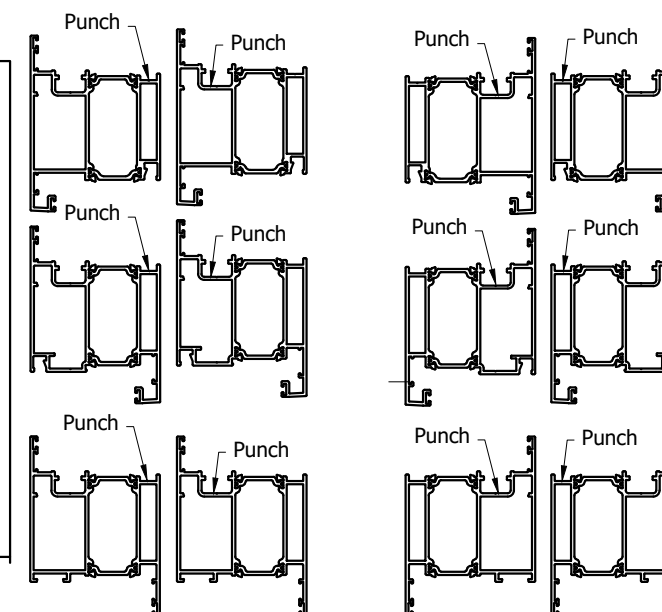
Do Not Scale From This Drawing



Use support stands for longer lengths of profiles.



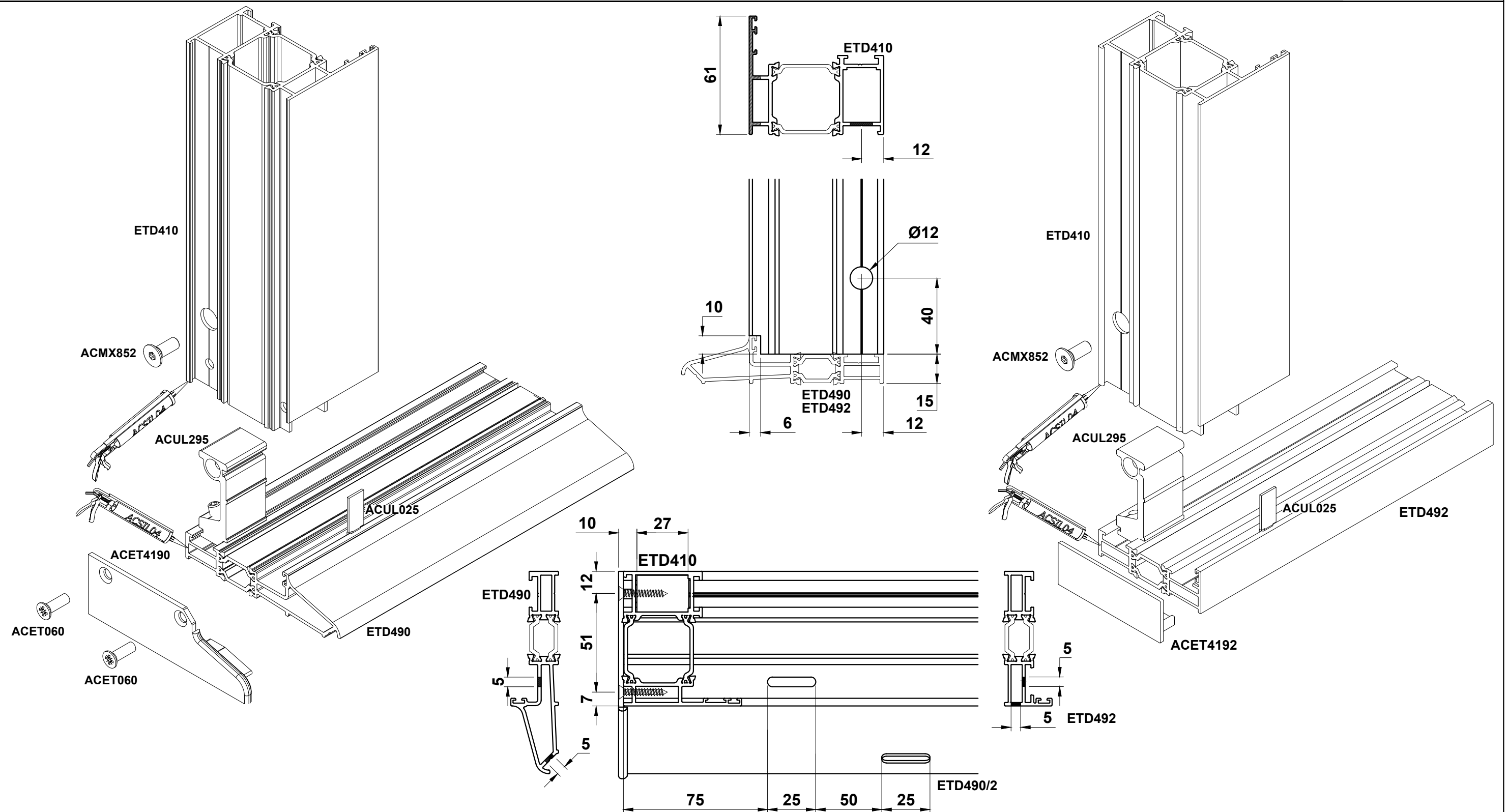
ETD402



Station 5
Profiles
(Not Mitred)

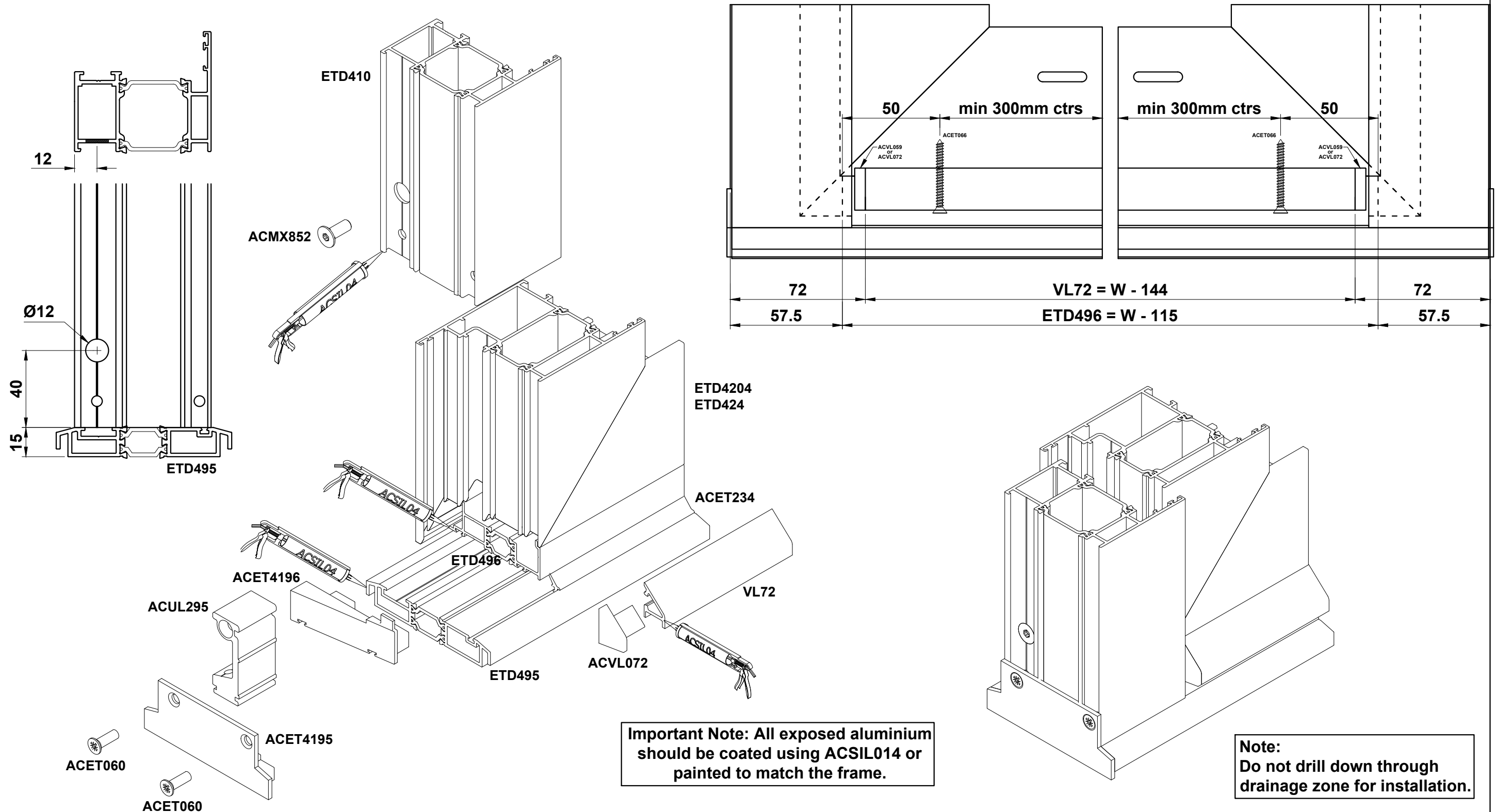
ISSUED: AUGUST 2025

Low Rebate Threshold Assembly



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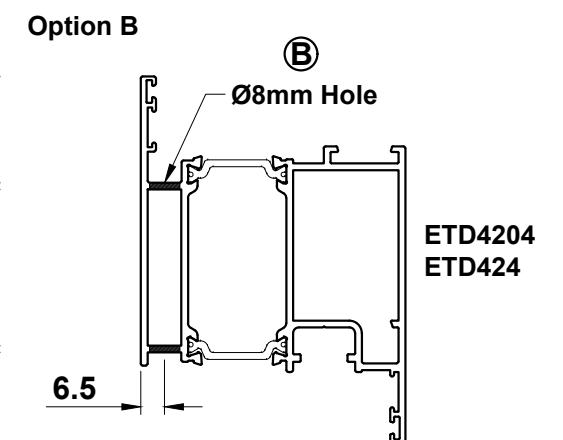
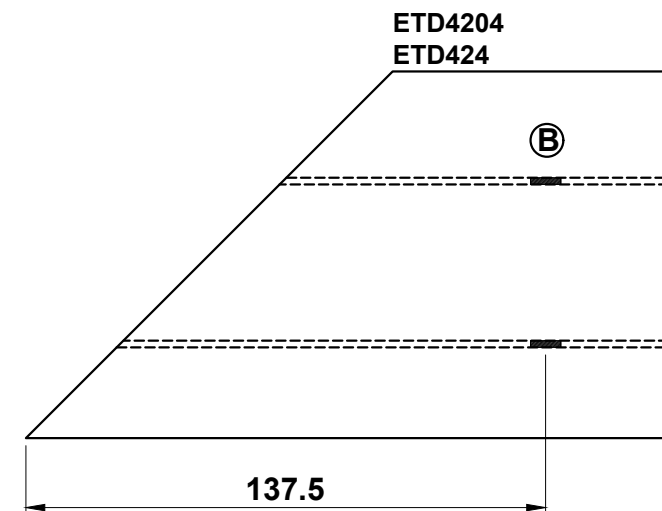
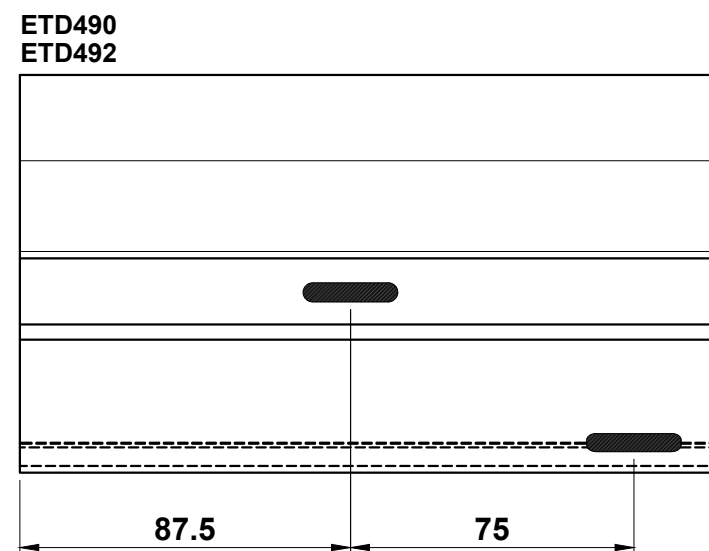
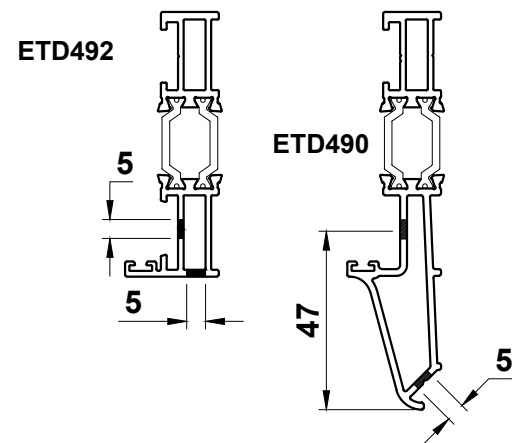
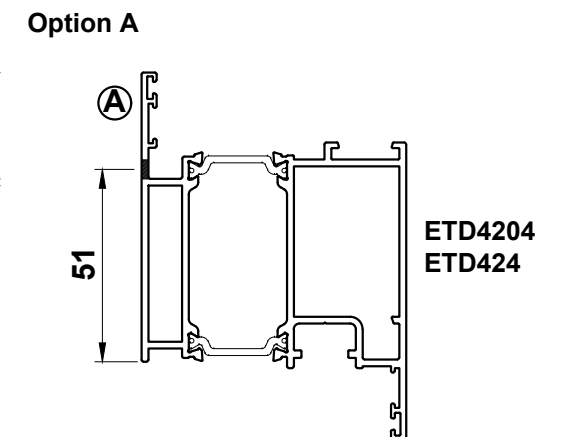
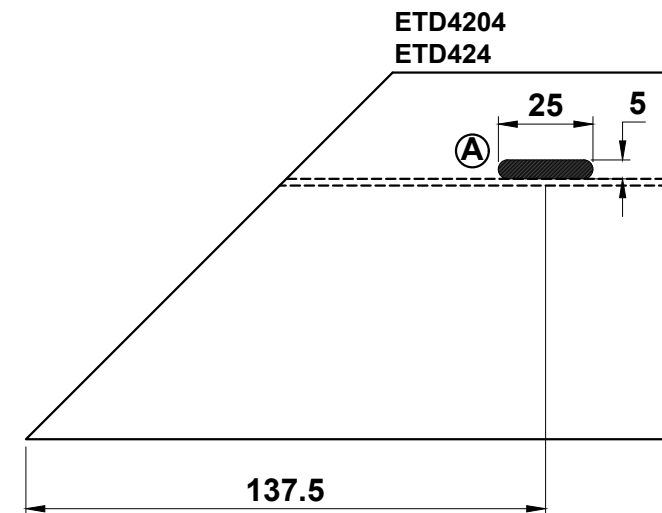
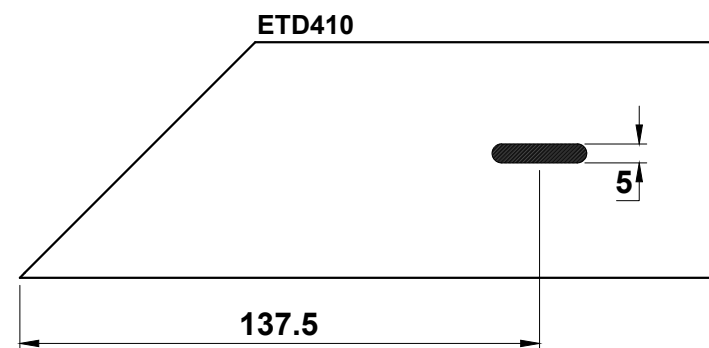
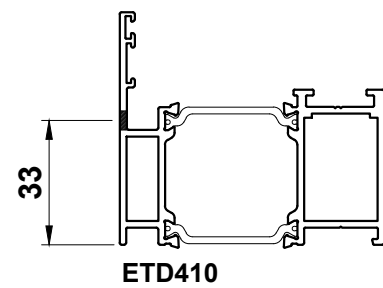
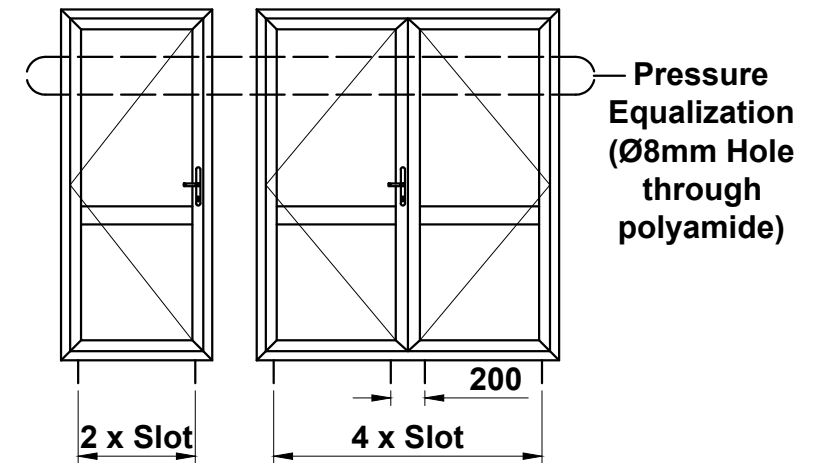
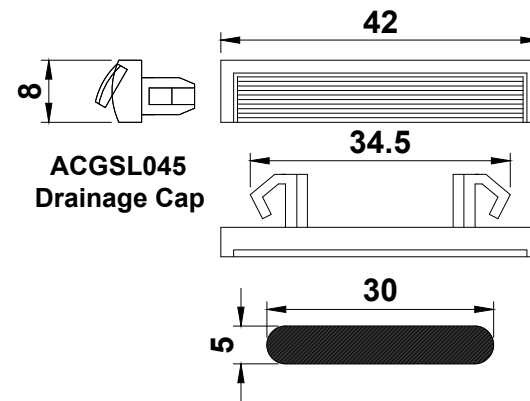
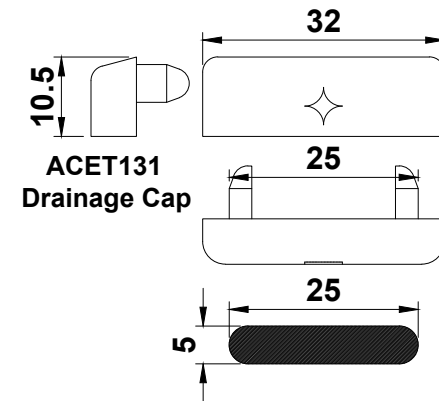
Low Ramp Threshold Assembly



Do Not Scale From This Drawing

Drainage

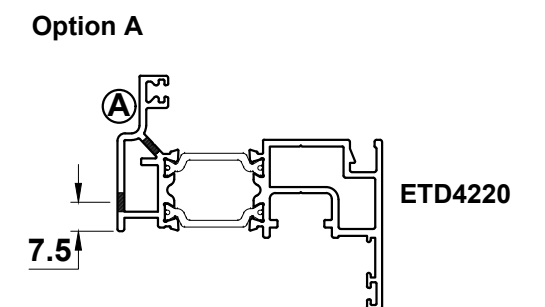
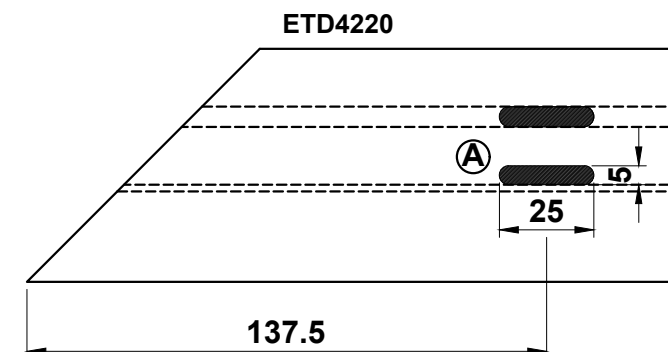
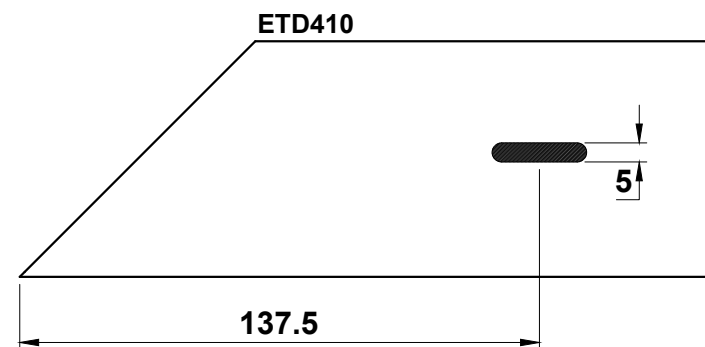
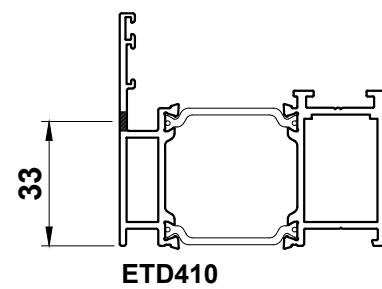
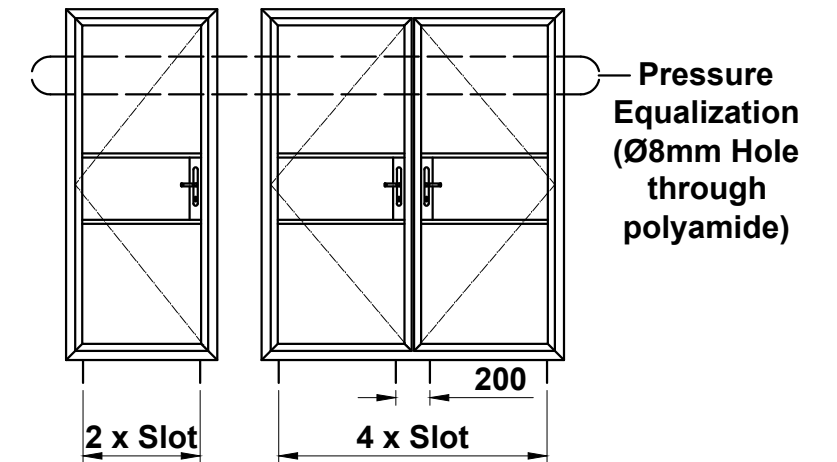
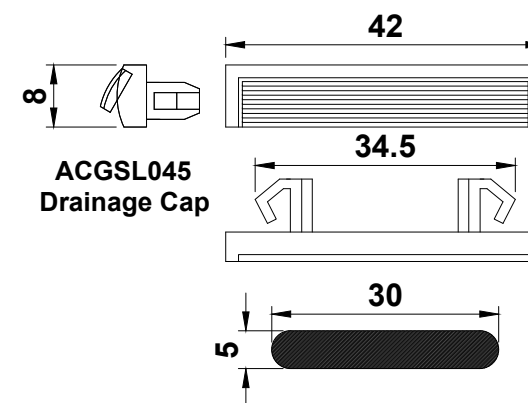
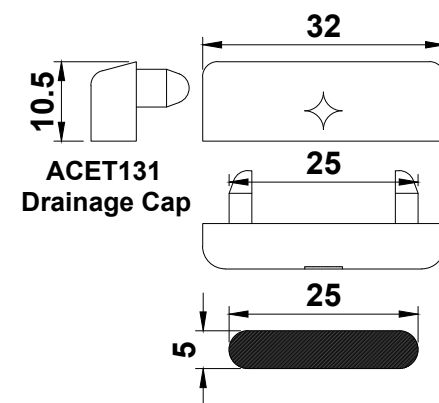
Important Note: All exposed aluminium should be coated using ACSIL014 or painted to match the frame.



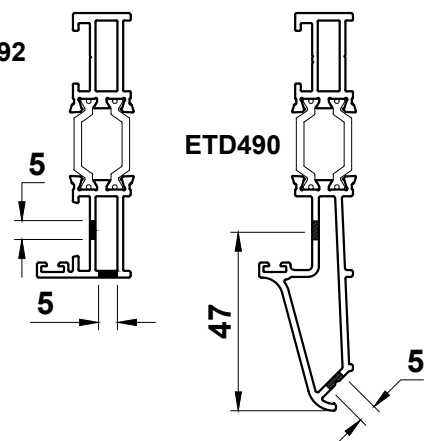
Do Not Scale From This Drawing

Drainage

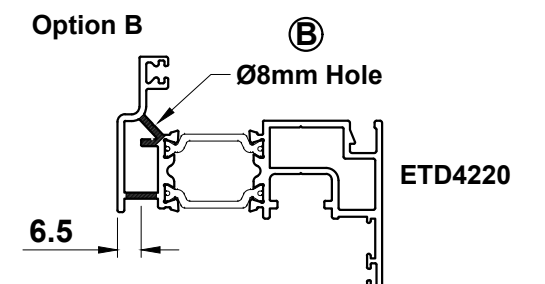
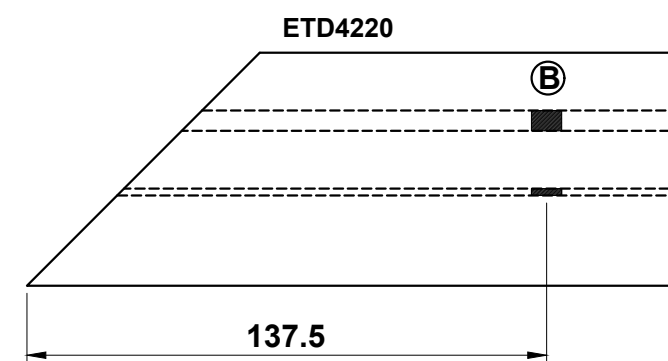
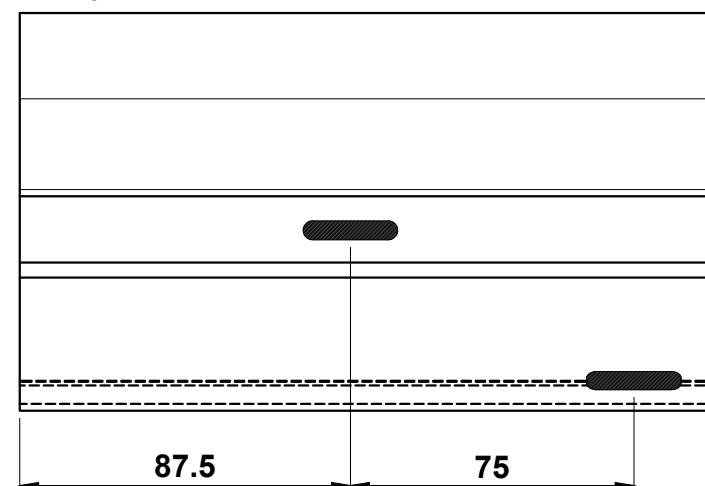
Important Note: All exposed aluminium should be coated using ACSIL014 or painted to match the frame.



ETD492



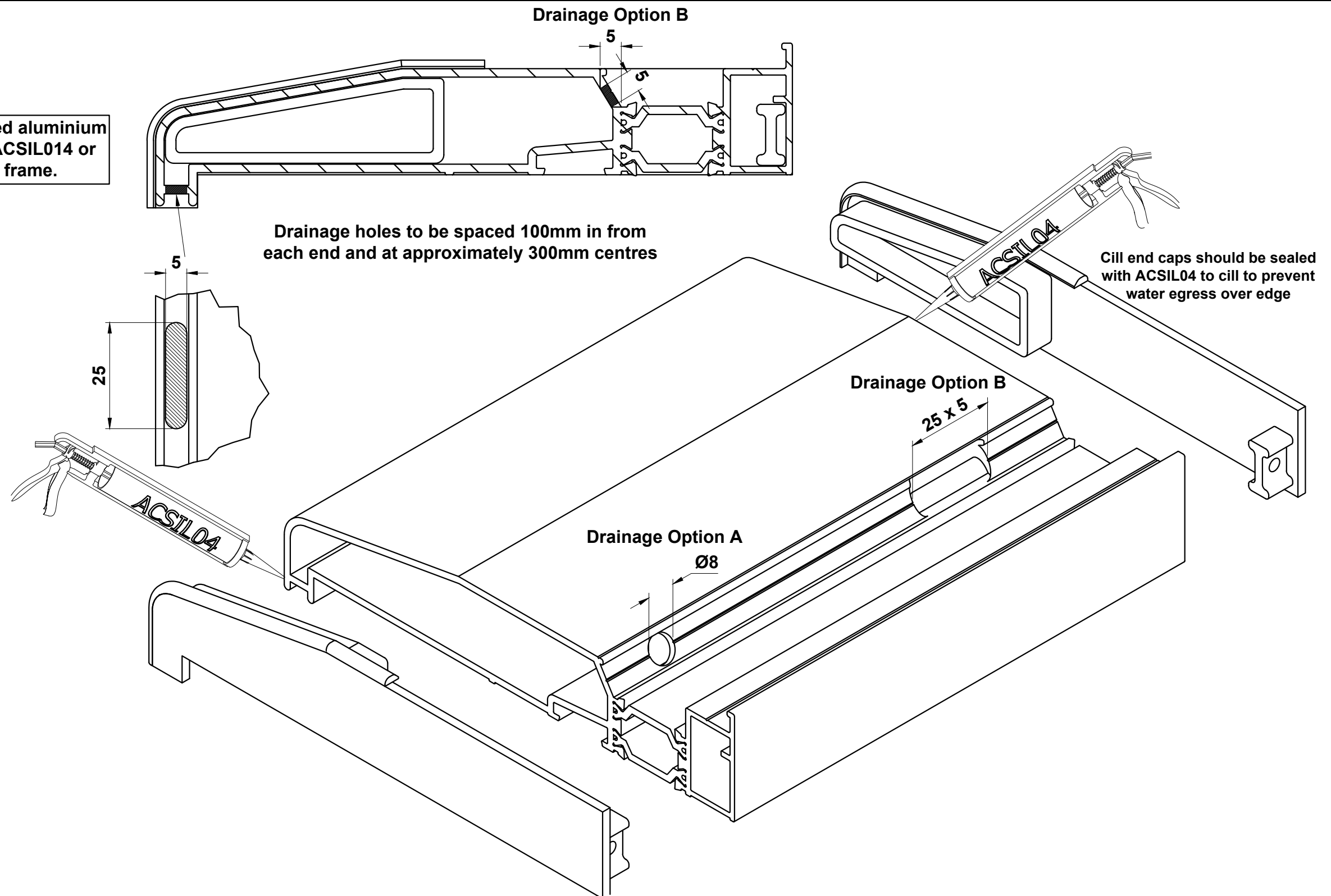
ETD490
ETD492



Do Not Scale From This Drawing

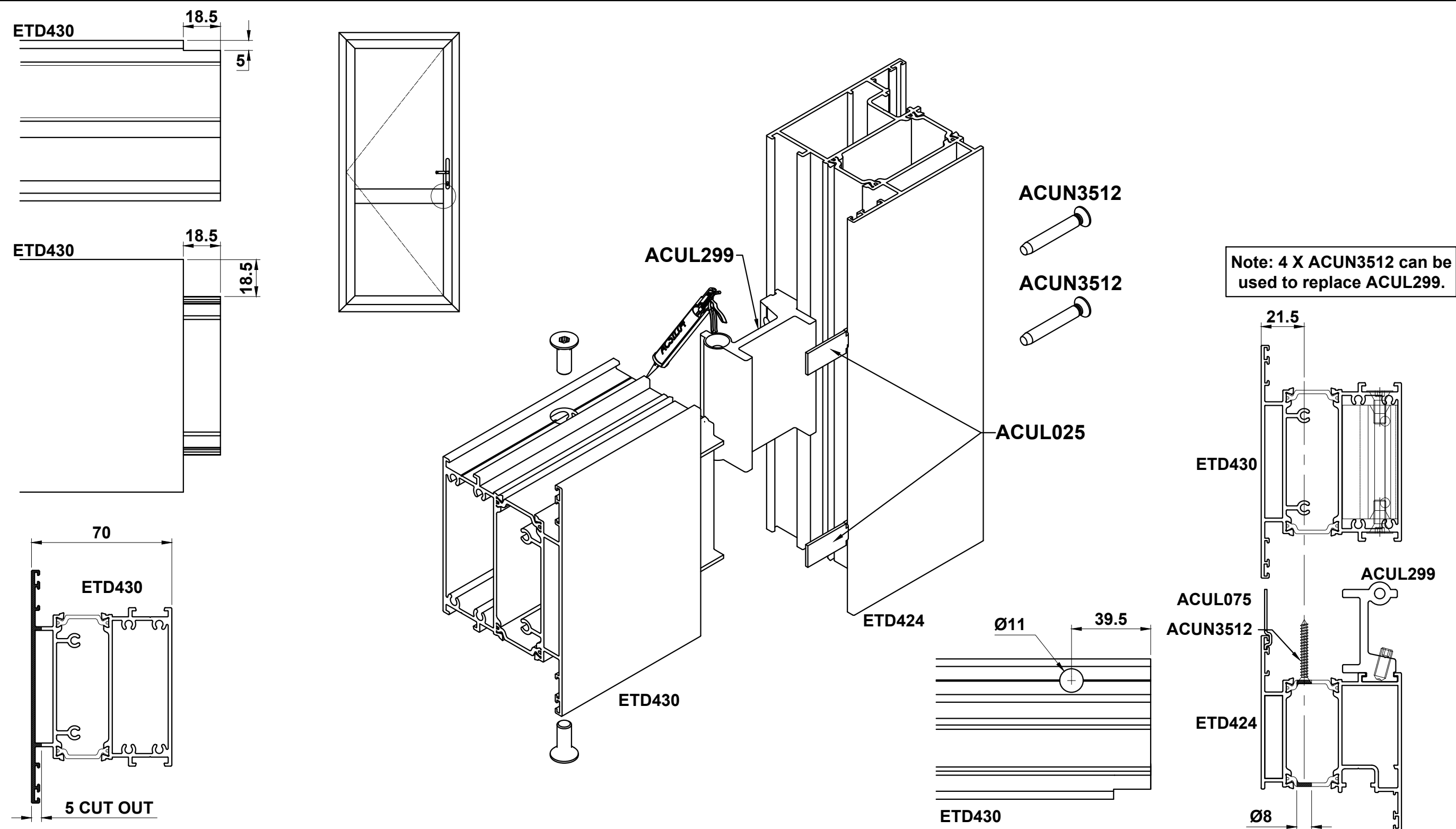
Sub Cill Drainage

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



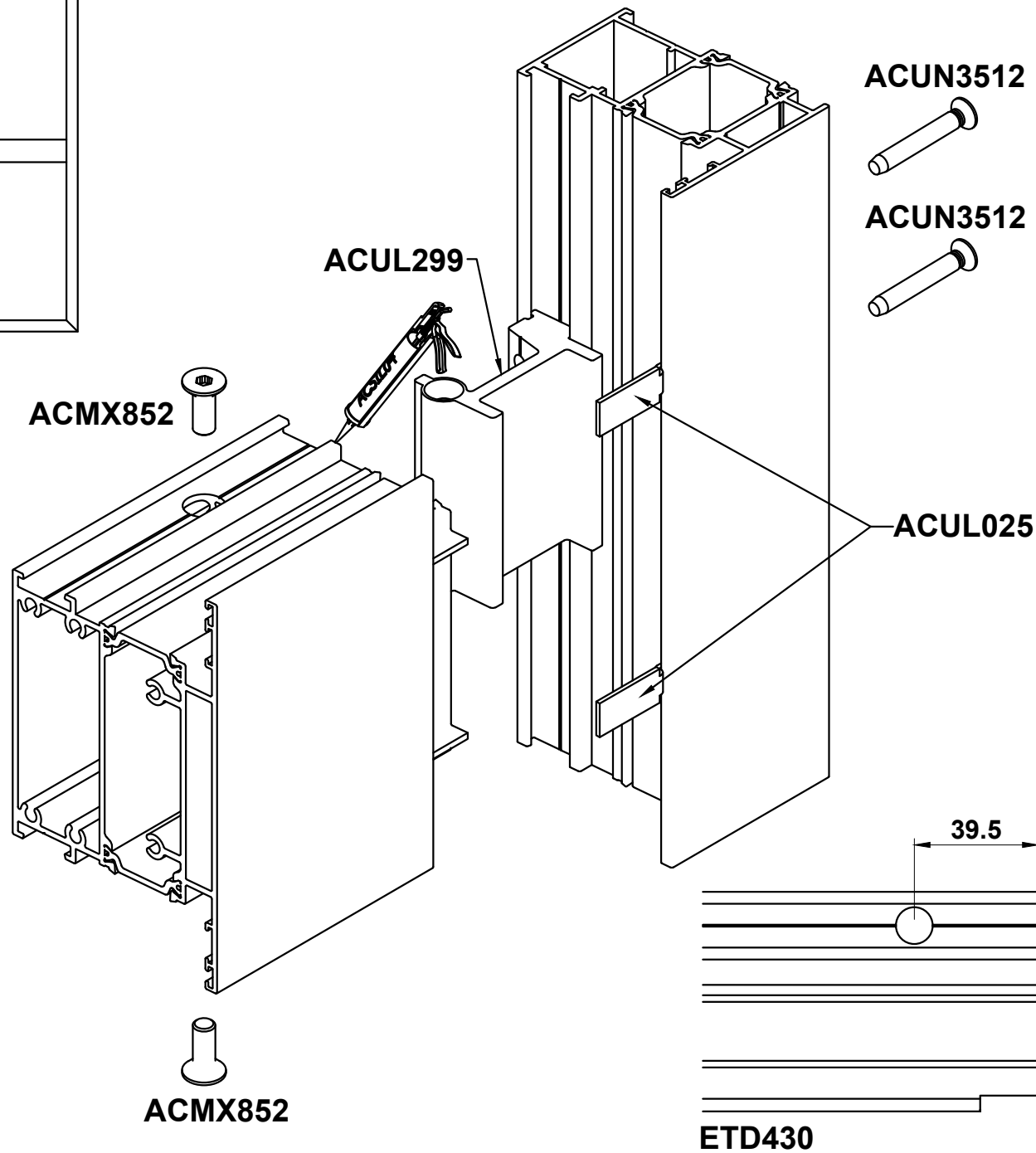
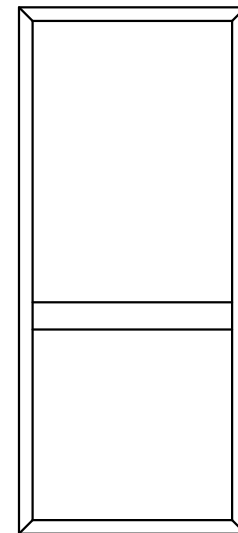
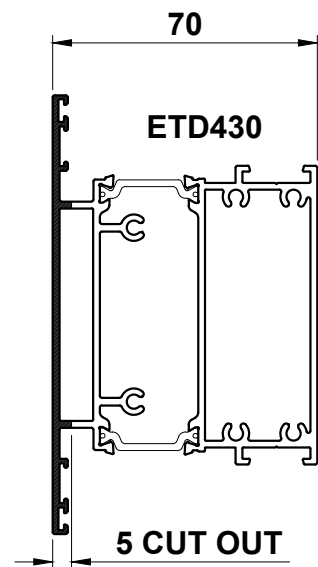
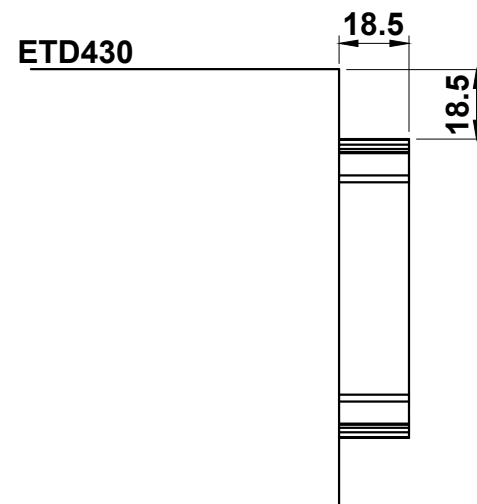
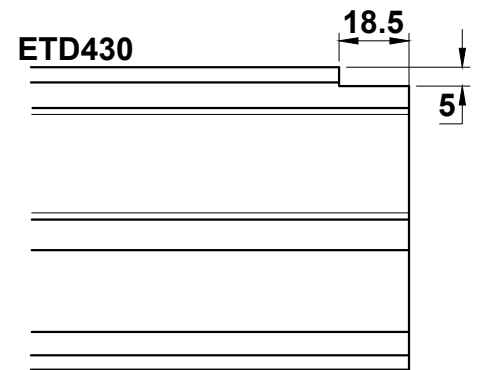
Do Not Scale From This Drawing

ETD430 & ETD424 Transom Assembly

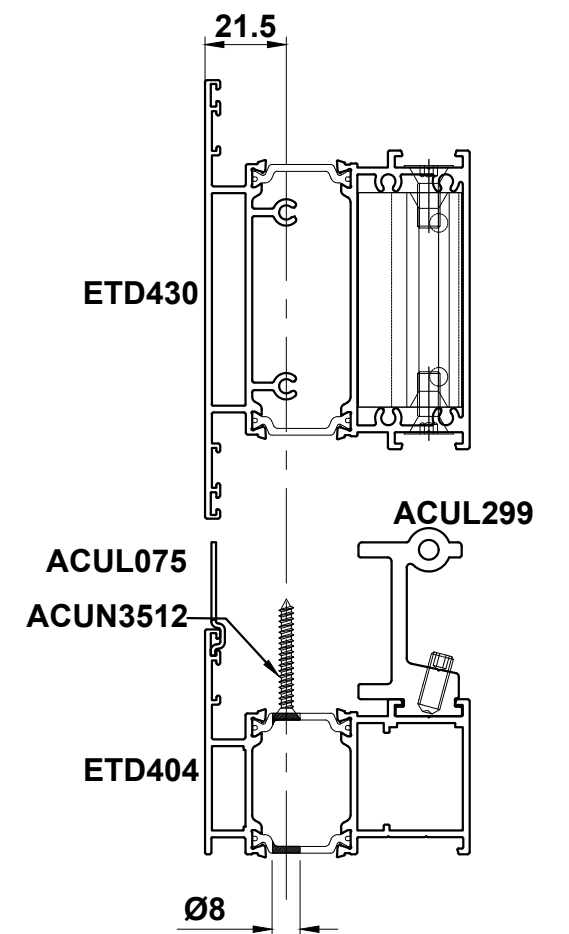


Do Not Scale From This Drawing

ETD430 & ETD404 Transom Assembly

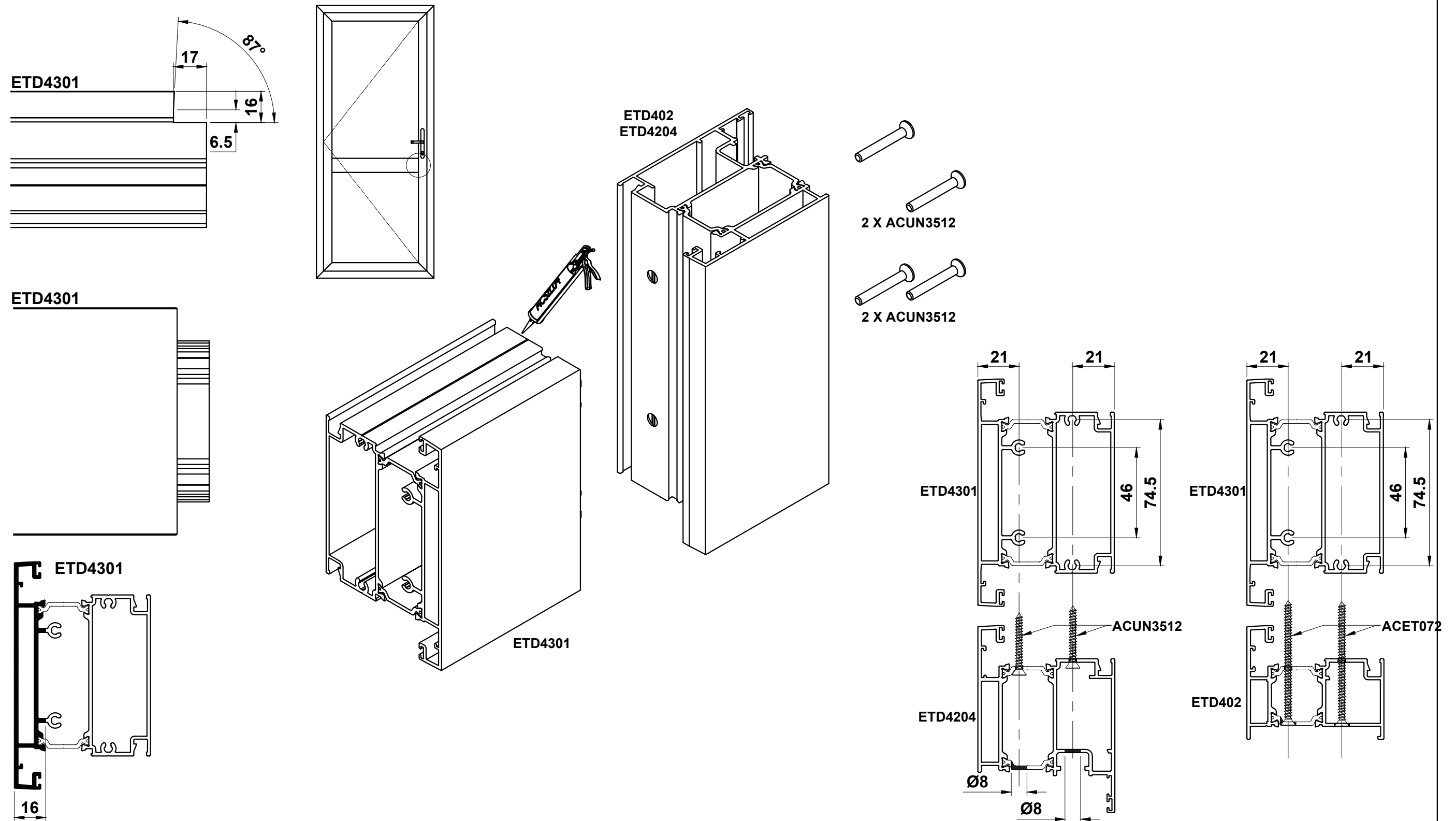


Note: 4 X ACUN3512 can be used to replace ACUL299.



Do Not Scale From This Drawing

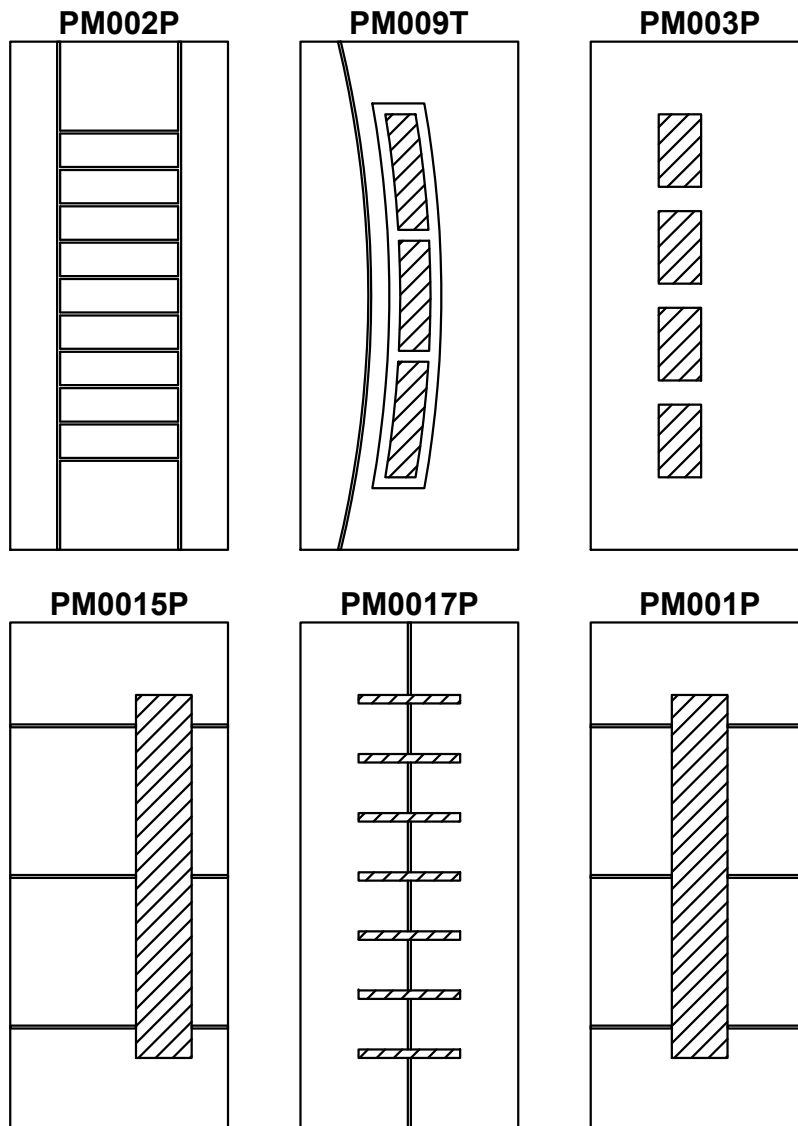
ETD4301 Transom Assembly



Do Not Scale From This Drawing

Panel Door Details

We offer a range of designs in panel doors from traditional Victorian, Georgian and Edwardian designs to contemporary chic. Here are just a select few we can offer:



An overall U-value of 1.2 W/m²K may be achieved by specifying glaze-in panels. Below are the centre pane U-values and overall U-values of the examples shown:

40mm Panel Thickness

Panel Number	CP U-Value (W/m ² K)	Door U-Value (W/m ² K)
PM002P	0.8	1.2
PM009T	0.9	1.3
PM003P	0.9	1.3
PM0015P	0.9	1.3
PM0017P	0.9	1.3
PM001P	0.9	1.3

32mm Panel Thickness

Panel Number	CP U-Value (W/m ² K)	Door U-Value (W/m ² K)
PM002P	1.0	1.4
PM009T	1.1	1.4
PM003P	1.1	1.4
PM0015P	1.1	1.4
PM0017P	1.1	1.4
PM001P	1.1	1.4

28mm Panel Thickness

Panel Number	CP U-Value (W/m ² K)	Door U-Value (W/m ² K)
PM002P	1.1	1.4
PM009T	1.2	1.5
PM003P	1.2	1.5
PM0015P	1.2	1.5
PM0017P	1.2	1.5
PM001P	1.2	1.5

For more information and panel designs please visit our website, www.smartsystems.co.uk or call our sales team on 01934 876100.

Do Not Scale From This Drawing

Door Locking & SZ Hardware Options

Slam Lock Guide

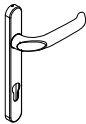
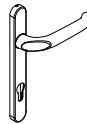
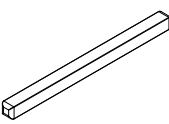
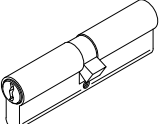
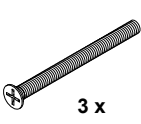
Overall Sash Height	Spindle Height (X)	Kit Part Number	
		Left Hand	Right Hand
2030-2230 (Standard)	1050	ACUL280	ACUL281
1820-2029 (Short)	1050	ACUL360	ACUL361
2231-2450 (Tall)	1050	ACUL380	ACUL381

Note: Height limits apply to all threshold options.

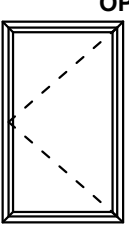
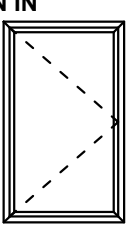
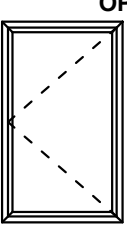
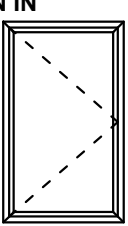
Key Operated Lock Guide

Overall Sash Height	Spindle Height (X)	Kit Part Number	
		Left Hand	Right Hand
2030-2230 (Standard)	1050	ACUL282	ACUL283
1820-2029 (Short)	1050	ACUL362	ACUL363
2231-2450 (Tall)	1050	ACUL382	ACUL383

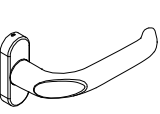
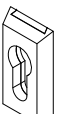
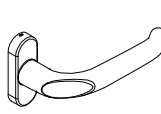
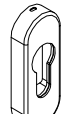
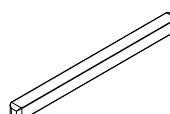
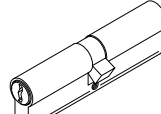
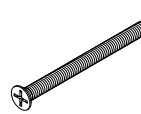
Handle With Large Backplate Guide

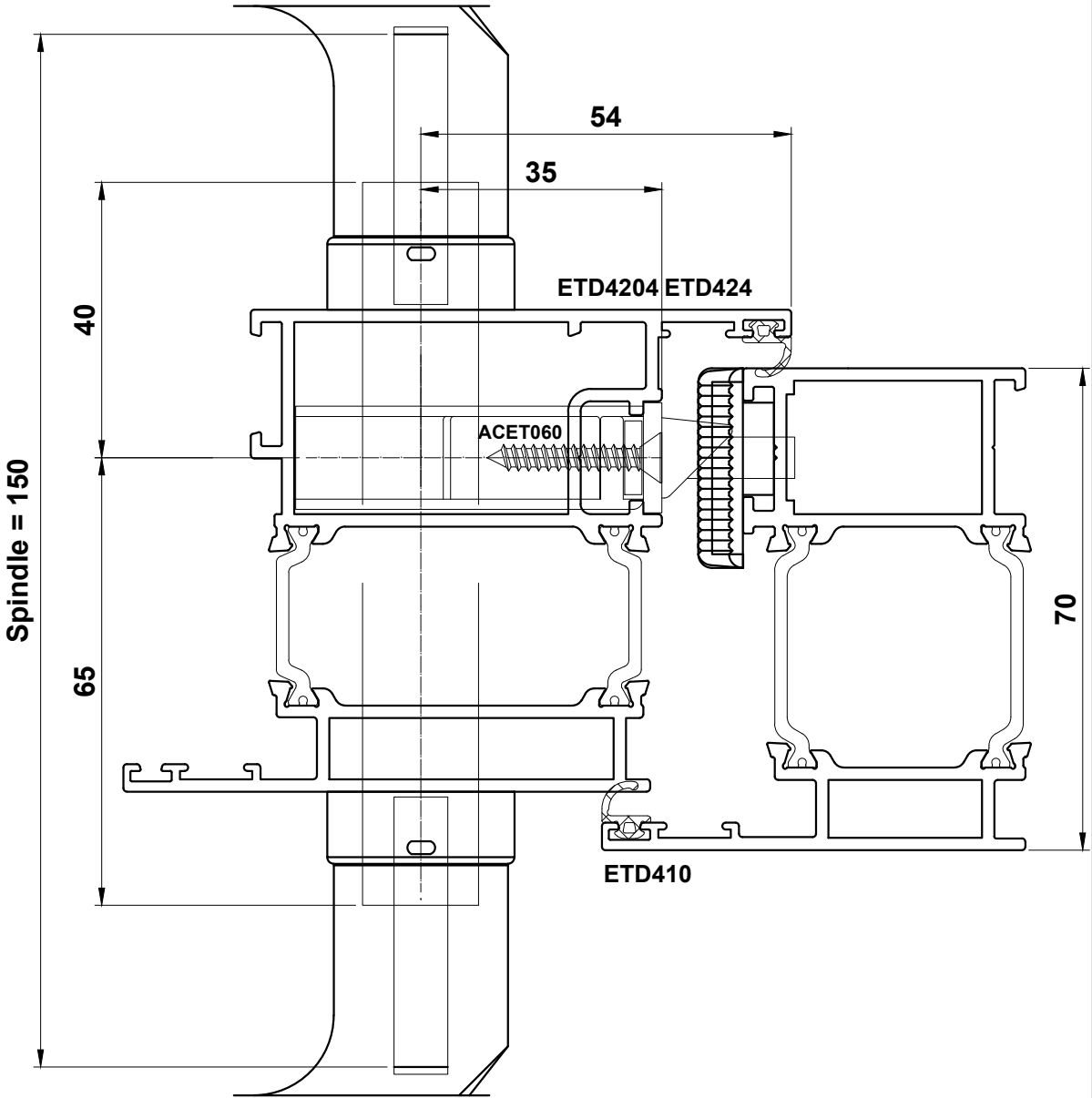
Ext. Handle	Int. Handle	Spindle	Cylinder	Screw
				 3 x
ACSZ800 	ACSZ801 	ACMX409Sq. Spindle 150mm	ACCY0035 Half Cylinder	ACMX861 M5 x 75mm
	ACSZ803 			
	ACSZ830 		ACCY6035S3 35/60 Cylinder	
ACSZ802 	ACSZ803 	ACMX008 Sq. Spindle 60mm	ACCY6035S3 35/60 Cylinder	ACVS061 M5 x 40mm
ACSZ400 + 2 x ACVS061	ACSZ830 			

Keep Handing Guide

Viewed Externally OPEN IN		Viewed Internally OPEN IN	
			
Right Hand Lock Set Outside	Left Hand Lock Set Outside	Left Hand Lock Set Outside	Right Hand Lock Set Outside

Handle with Small Backplate Guide

Ext. Handle	Ext. Escutcheon	Int. Handle	Int. Escutcheon	Spindle	Cylinder	Screw	Rivnuts
							
ACSZ837 	ACSZ400	ACSZ836 	ACSZ839	ACMX409Sq. Spindle 150mm	ACCY6035S3 ACCY0035	WCA134 M5 x 20mm	ACUN3509 M5
	ACSZ400			ACMX008 Sq. Spindle 60mm	ACCY6035S3 ACCY0035	WCA134 M5 x 20mm	ACUN3509 M5
ACSZ837 	ACSZ400	ACSZ827 		ACMX409Sq. Spindle 150mm	ACCY6035S3 ACCY0035	WCA134 M5 x 20mm	ACUN3509 M5



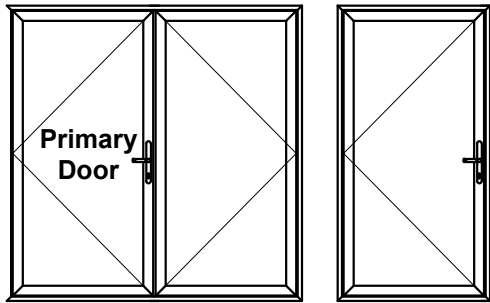
-  With Cylinder
-  Without Cylinder
-  T Handle With Cylinder
-  T Handle Without Cylinder

Note:
Please check kitemark for all
suitable hardware to achieve PAS24.

Do Not Scale From This Drawing

Lock Overview of Single and Double Doors

Finger Bolt Locking Options

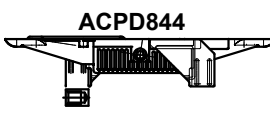


Single & Primary Door Lock Selection

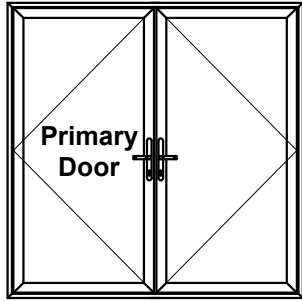
Overall Sash Height	Lift Lever		Slam Lock		Key Wind	
	Left	Right	Left	Right	Left	Right
2030-2230 (Standard)	ACUL272	ACUL273	ACUL280	ACUL281	ACUL282	ACUL283
1820-2029 (Short)	ACUL377	ACUL378	ACUL360	ACUL361	ACUL362	ACUL363
2231-2450* (Tall)	ACUL374	ACUL375	ACUL380	ACUL381	ACUL382	ACUL383

*Any doors above 2450mm are above the tested limit.

Secondary Door Accessory Selection

35mm Backset Shootbolt Adaptor	Bottom 10mm Dia Rod	Top 10mm Dia Rod		Keep	Shootbolt Guide
		Overall FRAME Size	Rod Part No.		
 ACPD844	ACPD846 (1000mm)	1820 - 1923	ACPD846 (1000mm)	ACUL390 (2 Required)	ACUL242 (2 Required)
		1923 - 2173	ACPD847 (1250mm)		
		2174 - 2423*	ACPD848 (1500mm)		
		*For doors above 2423mm, use ACPD849 (2000mm)			

Lift Lever Locking Options



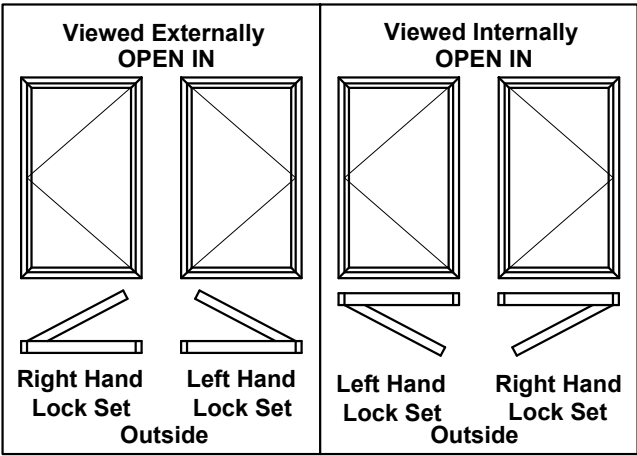
Double Handle Lift Lever Lock Option

Overall Sash Height	Primary Door Lift Lever		Secondary Door Lift Lever	Double Door Keep	Shootbolts	Shootbolt Extensions
	Left	Right				
1885-2450*	ACUL277	ACUL278	ACUL276	ACUL279	ACDV737 ACDV738	ACDV742 ACDV744

*Any doors above 2450mm are above the tested limit.

**Please see page E31 for shootbolt layout.

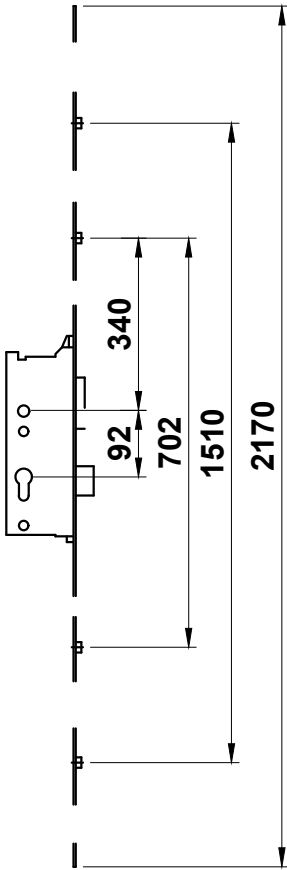
Keep Handing Guide

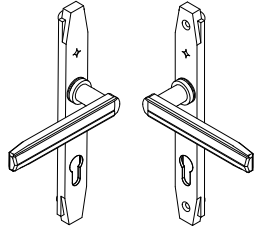
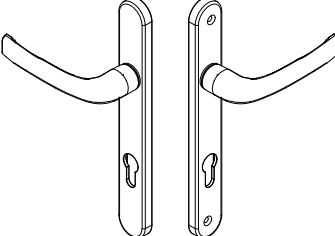
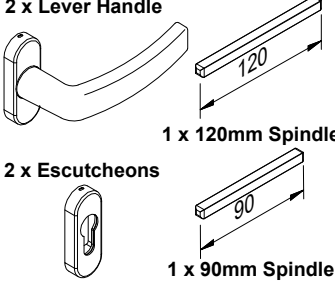
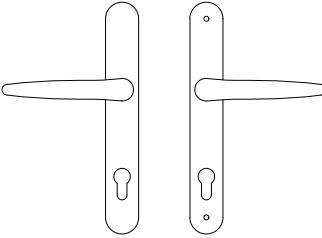
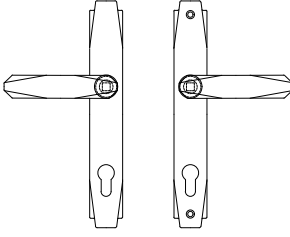


For ACUL267 & 268 Cam Lock Option Refer To Page E40

Do Not Scale From This Drawing

Heritage Single Door Hardware Options

Lock	Accessories	Quantity
	ACW20465	1
	ACCY4535S1	
	ACCY4535TTS1	
	ACW20066 L/R	1
	ACW20367	4

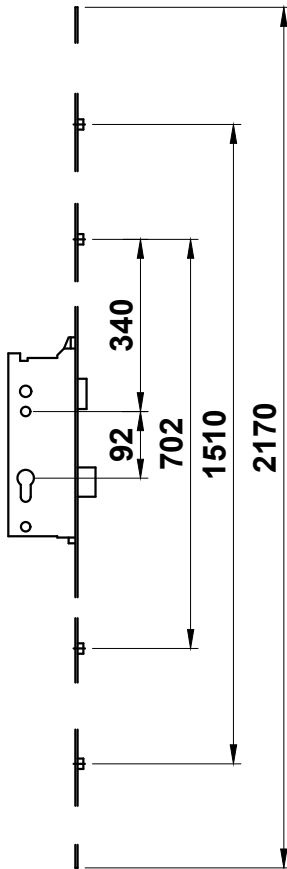
Handles		Quantity
	ACSM001N Art Deco Lever/Lever Door Handle	1 Pair
	ACSM060 Heritage Lever/Lever Handle	
	ACSM095 Suitable With Lift Lever Additional Parts: HEA132 - M5 x 16mm ACUN3509 - M5 Rivnut	
	ACW20261 Standard Lever/Lever Handle Fixing kit supplied	
	ACW20062 Art Deco Lever / Lever Handle Available in Antique Brass and Satin Nickel Plate	

Do Not Scale From This Drawing

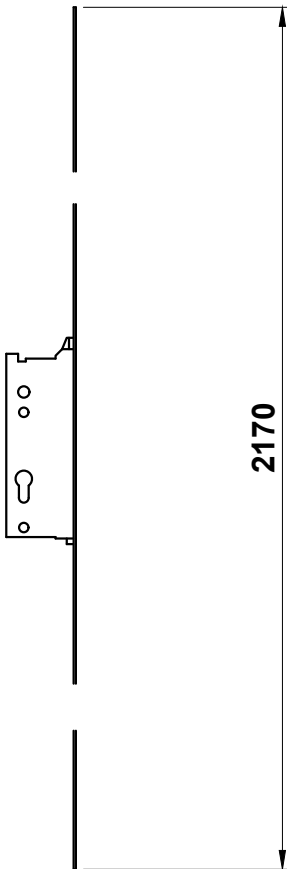
Heritage Double Door Hardware Options

Lock

ACW20465

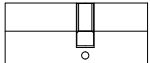


ACW20466

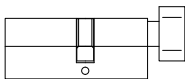


Accessories

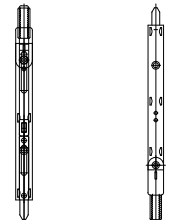
ACCY4535S1



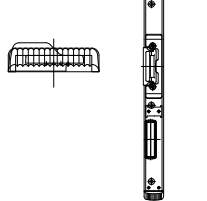
ACCY4535TTS1



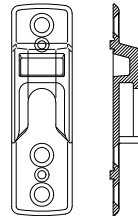
ACDV737/ACDV738



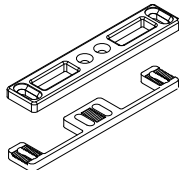
ACW20066 L/R



ACW20367



ACUL279



Quantity

2

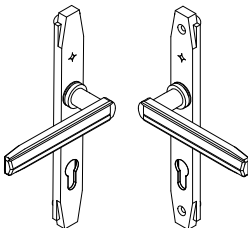
2 / 2

1

4

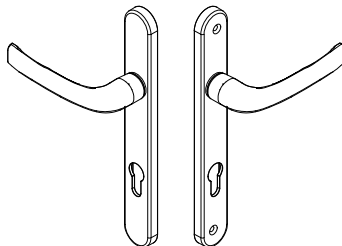
2

Handles



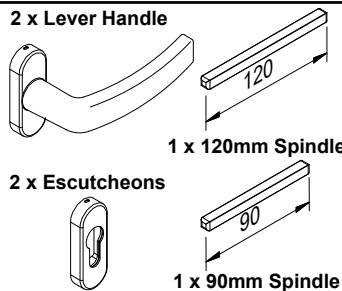
ACSM001N

Art Deco Lever/Lever Door Handle



ACSM060

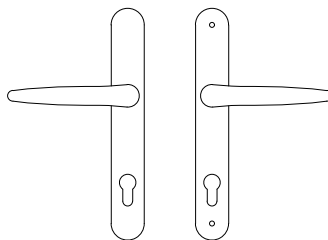
Heritage Lever/Lever Handle



ACSM095

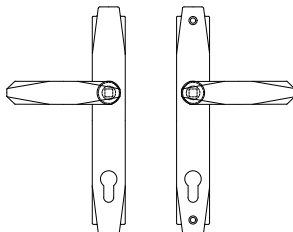
Suitable With Lift Lever

Additional Parts:
HEA132 - M5 x 16mm
ACUN3509 - M5 Rivnut



ACW20261

Standard Lever/Lever Handle
Fixing kit supplied



ACW20062

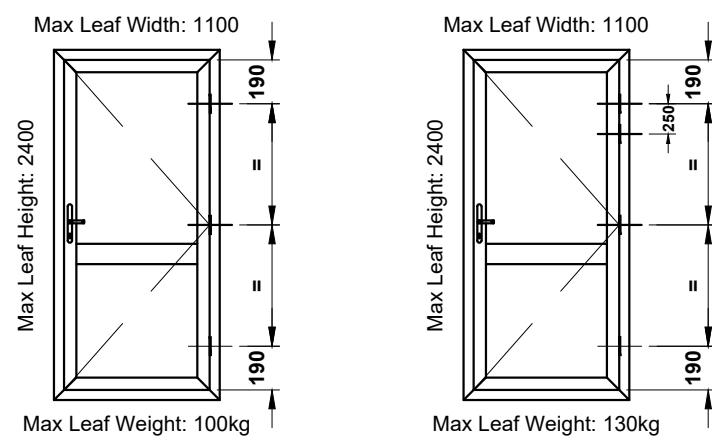
Art Deco Lever / Lever Handle
Available in Antique Brass and
Satin Nickel Plate

Quantity

2 Pair

Do Not Scale From This Drawing

ACUL250 Hinge Preparation



Surface Fixed Closers - Hinge Load Calculation

Without Backcheck
Increase door weight
by 20%

Example:
(Glass Weight = 44kg)
+ 20% = 53kg

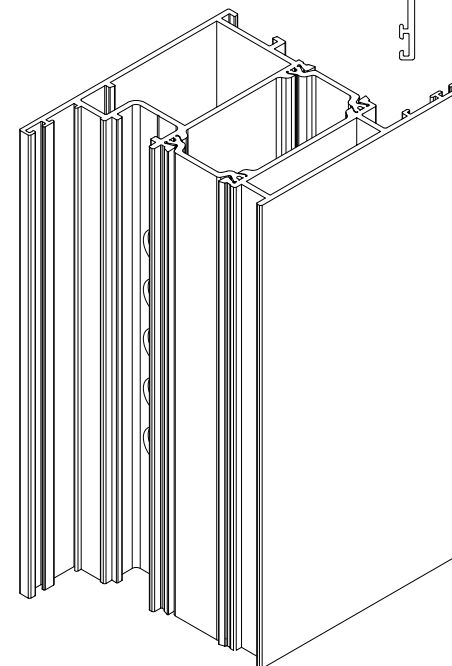
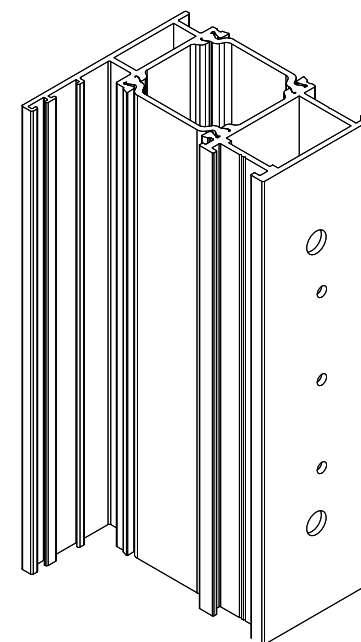
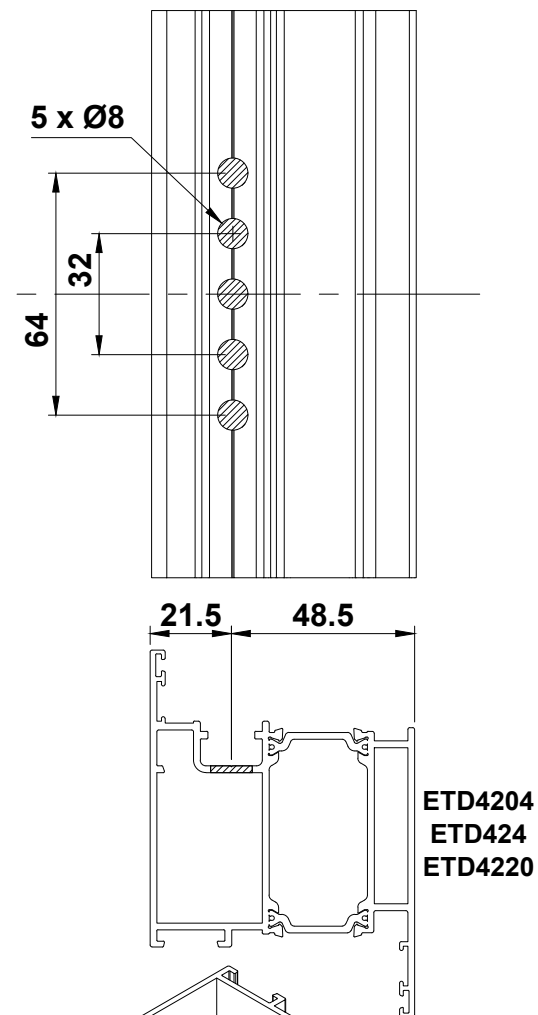
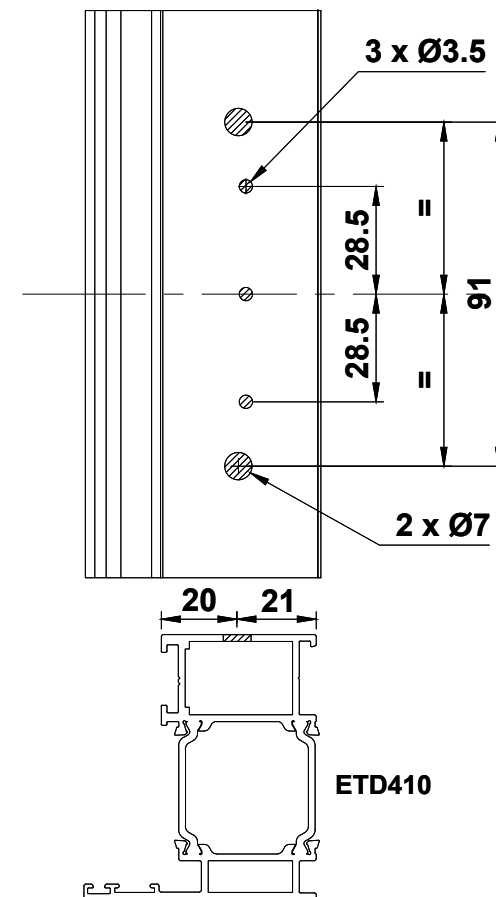
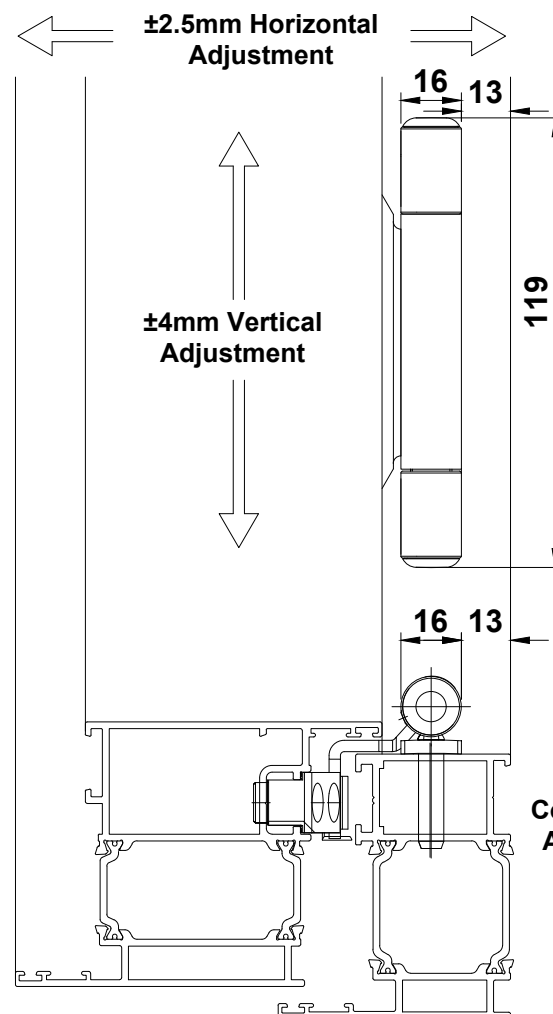
With Backcheck
Increase door weight
by 75%

Example:
(Glass Weight = 44kg)
+ 75% = 77kg

Fitting Instructions:

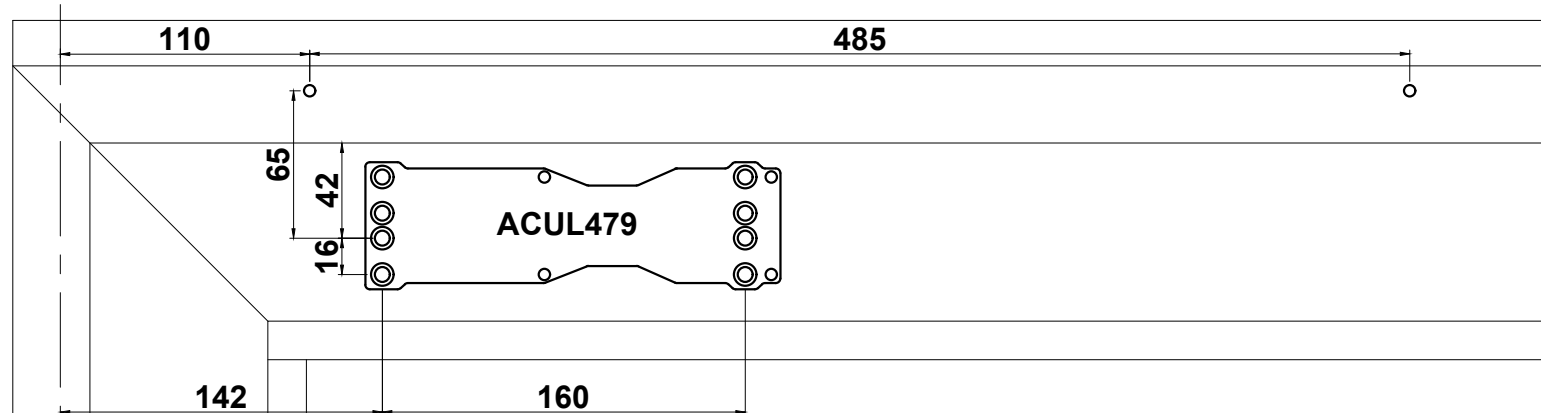
(Full instructions are supplied with each ACUL250 Hinge)

1. Align outer frame and sash in correct position
2. Clamp drill jig ACUL950 over the centre line of the hinge
3. Drill through all bushes marked '1' with a Ø7.2mm drill bit (supplied) and through all bushes marked '2' with a Ø3.5mm drill bit (not supplied)
4. Fasten the sash plate using ACIM062
5. Fasten the frame plate using ACUN3512 screws ensuring the grub screws are positioned towards the door sash
6. Drive in the central barrel until it lines up with the rings on the frame plate
7. Drive in pin 'B' to the top of the hinge and then drive in pin 'A' to the bottom of the hinge
8. Open the door and lightly tighten the security screws
9. Adjust hinge as required then insert caps and cover caps.

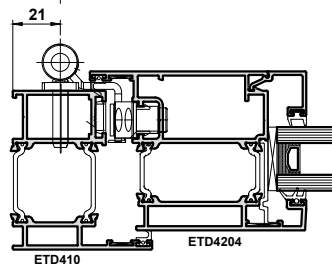


Do Not Scale From This Drawing

ACUL478 Surface Fixed Closer & Slide Arm - Open In

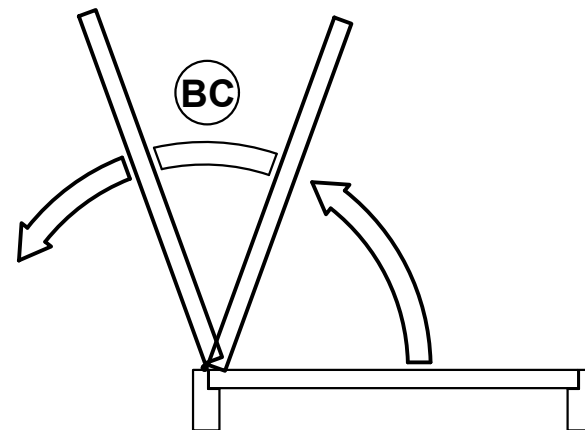
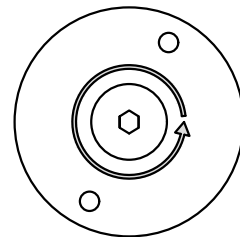


Use the With Backcheck calculation on page E21 to select the correct hinge configuration

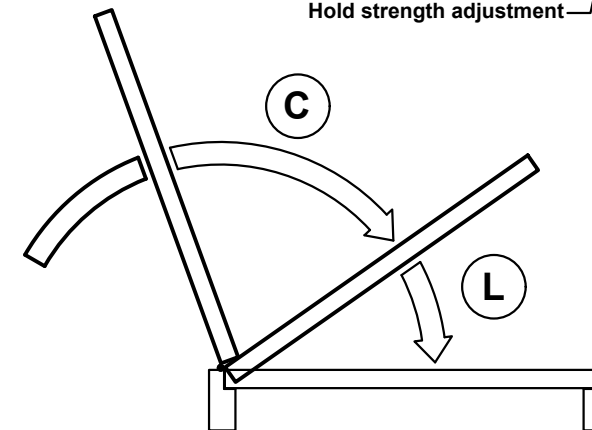


Size	Leaf Width	Full Turn
	Min	-7
EN1	< 750mm	-5
EN2	< 850mm	-3
EN3	< 950mm	0*
EN4	< 1100mm	+3

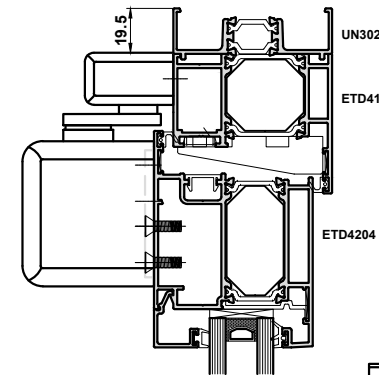
* Factory Setting



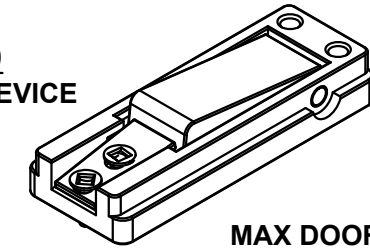
BACKCHECK



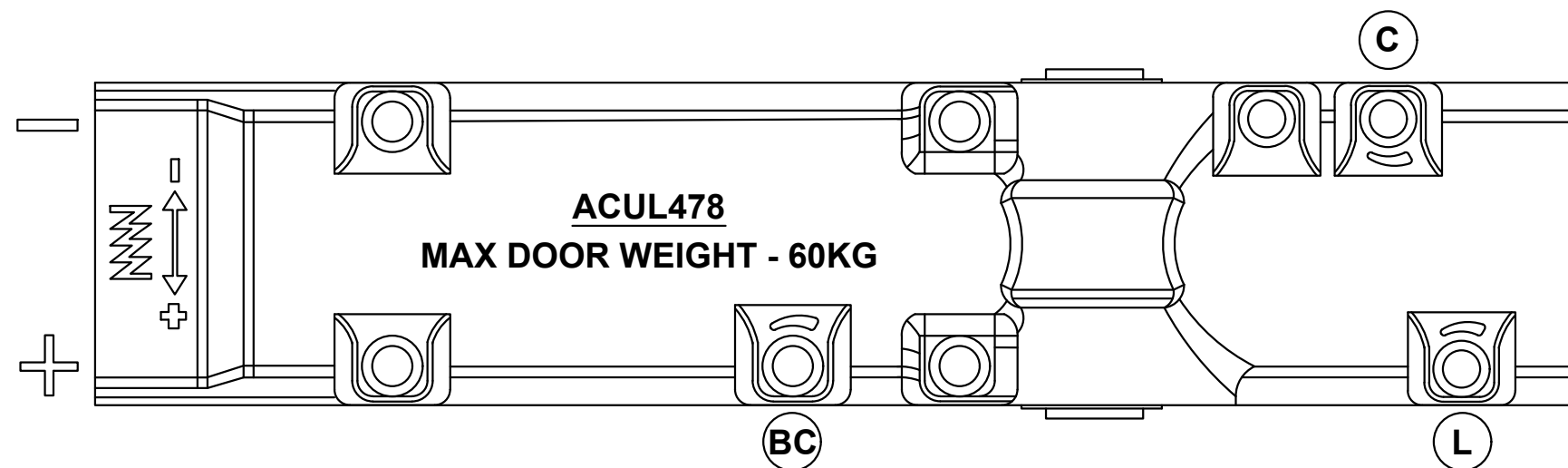
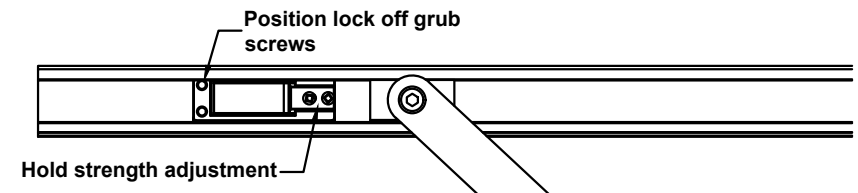
CLOSING SPEED



ACUL480
HOLD OPEN DEVICE



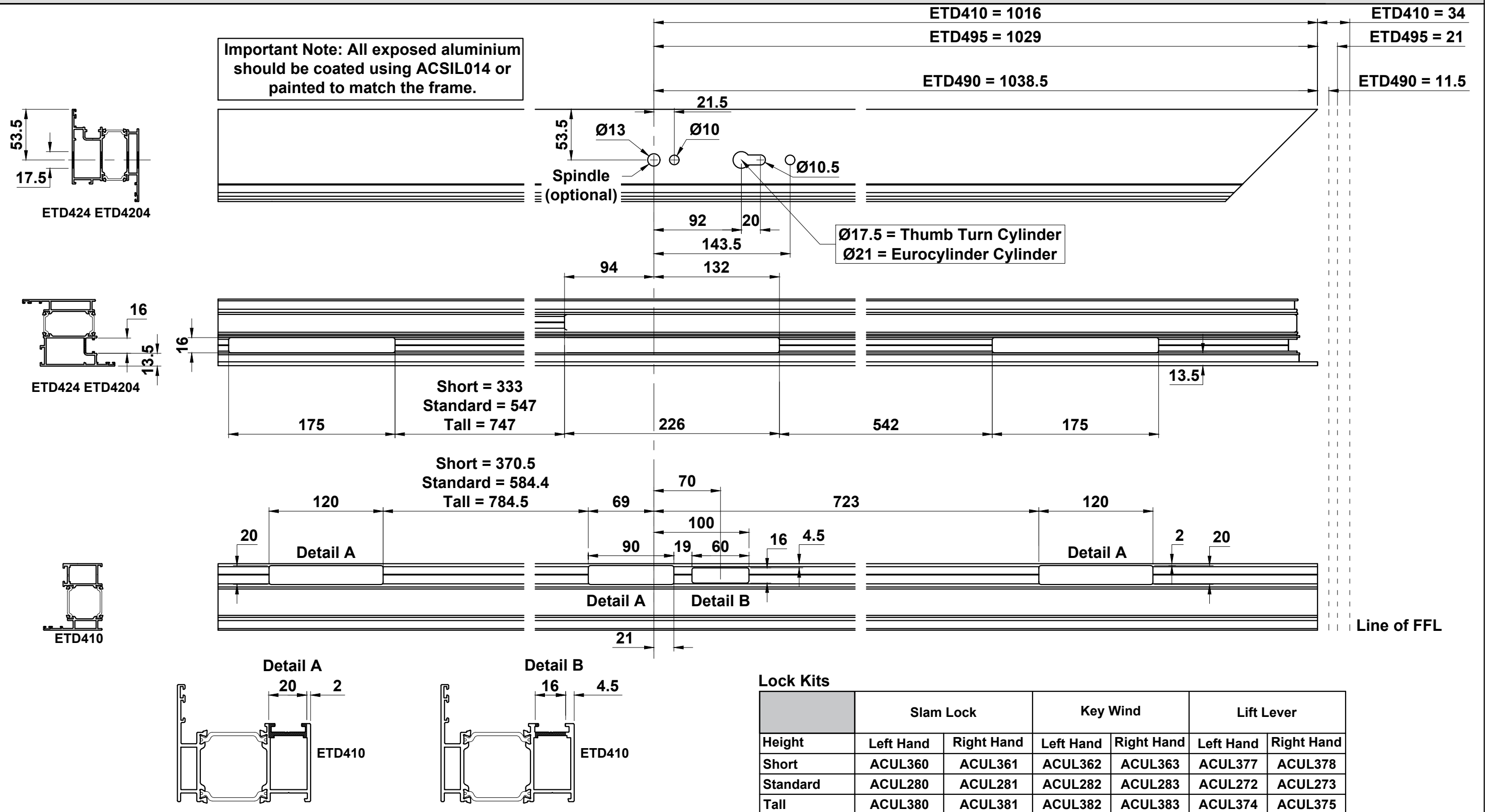
MAX DOOR WEIGHT 80KG



Please consult Technical Support for doors beyond these limitations.

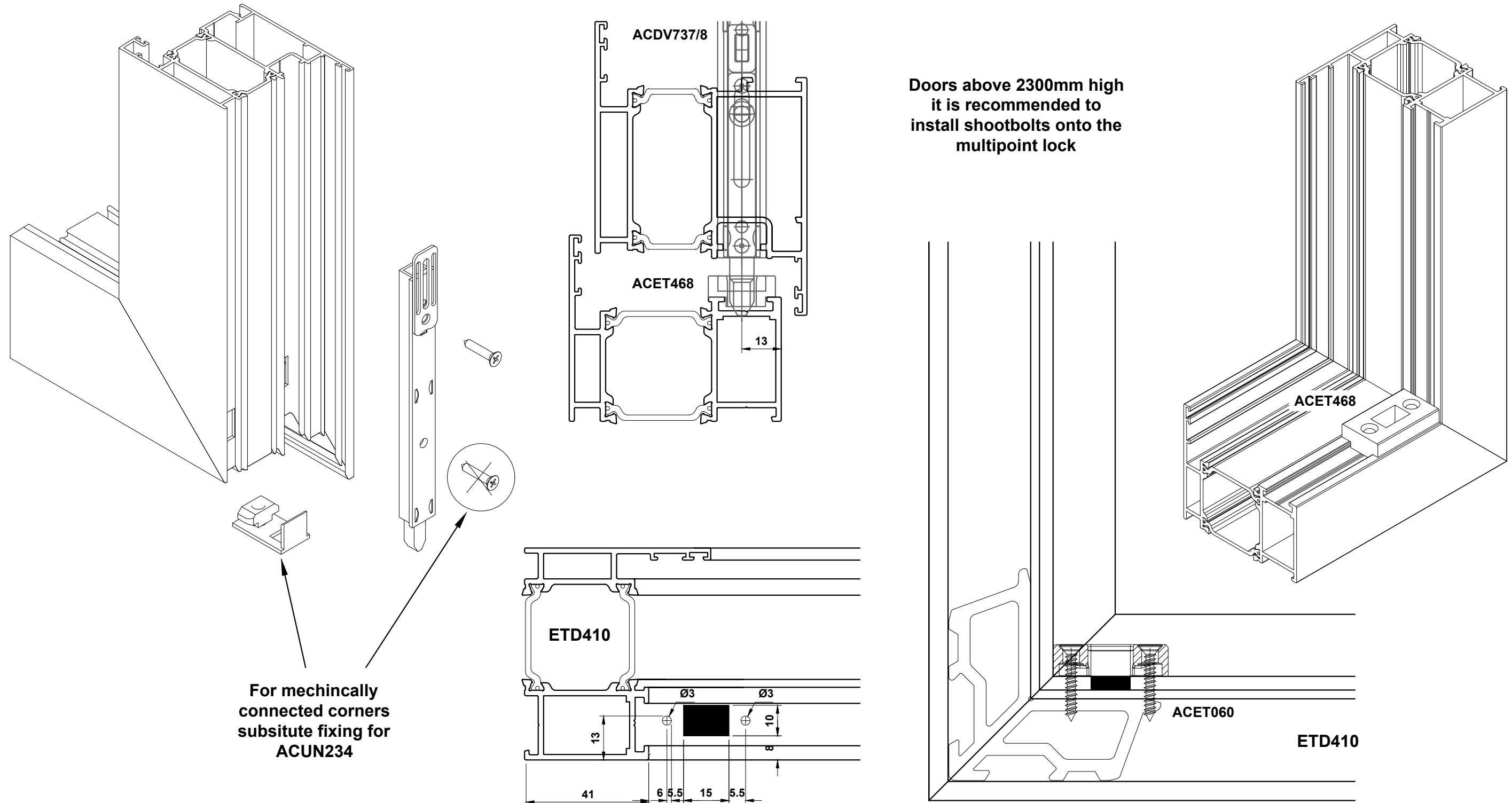
Do Not Scale From This Drawing

Single Door Lock Preparation



Do Not Scale From This Drawing

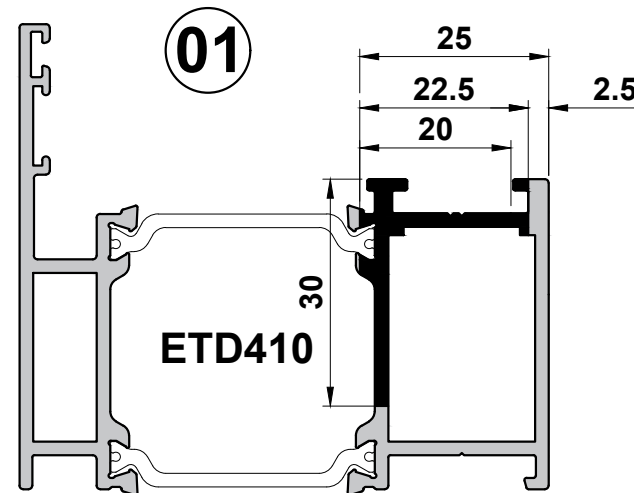
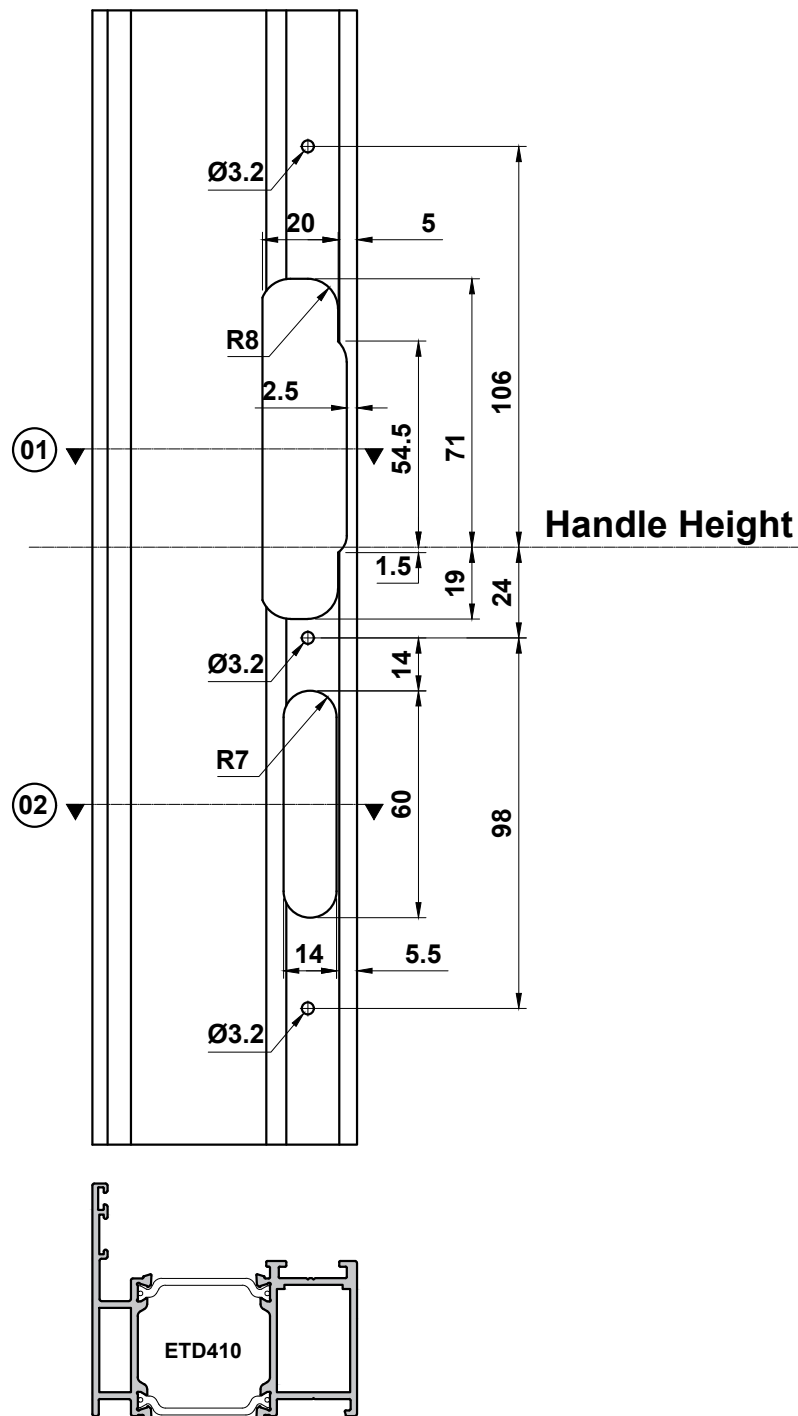
Single Door Shootbolt Detail



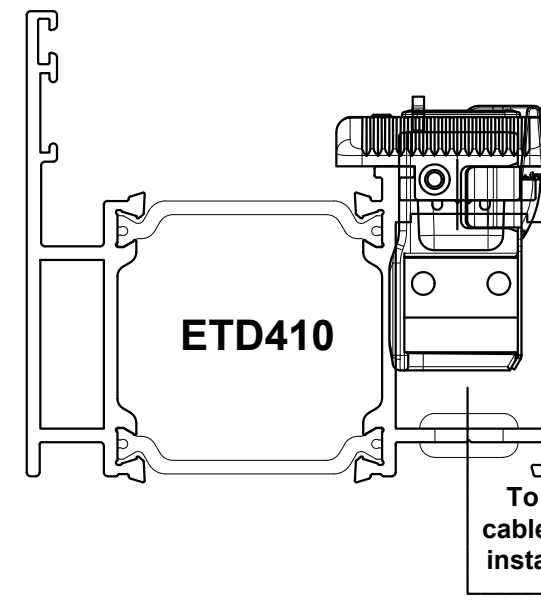
Do Not Scale From This Drawing

Open In Electric Strike Details

Centre Keep Cut Out

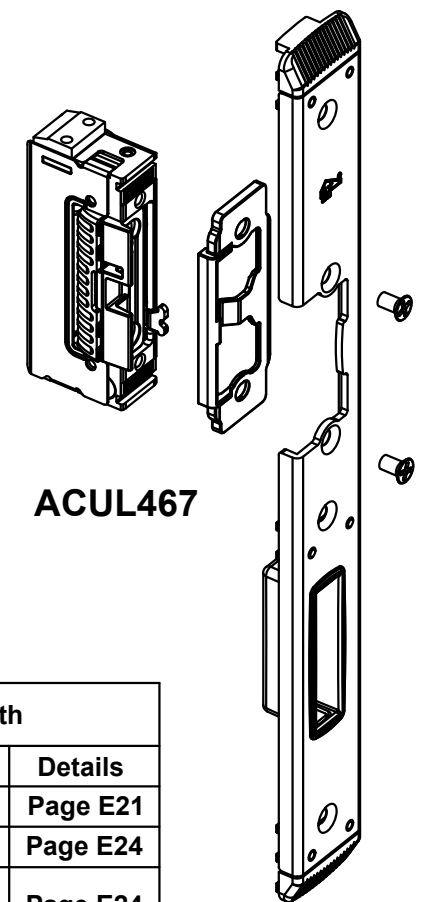


Ensure that the electric strike is powered only by a trained professional.



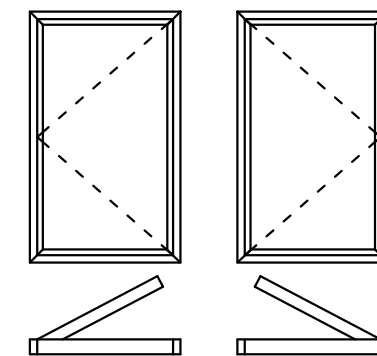
Max. Wire Size:
Solid: 2.5mm²
Fine-Stranded (flexible): 1.5mm²
Fine-Stranded (with ferrule) : 1.5mm²

ACUL465 - 12V DC FAIL SAFE
ACUL466 - 12V DC FAIL SECURE



ACUL417

Keep Handing Guide Viewed Externally

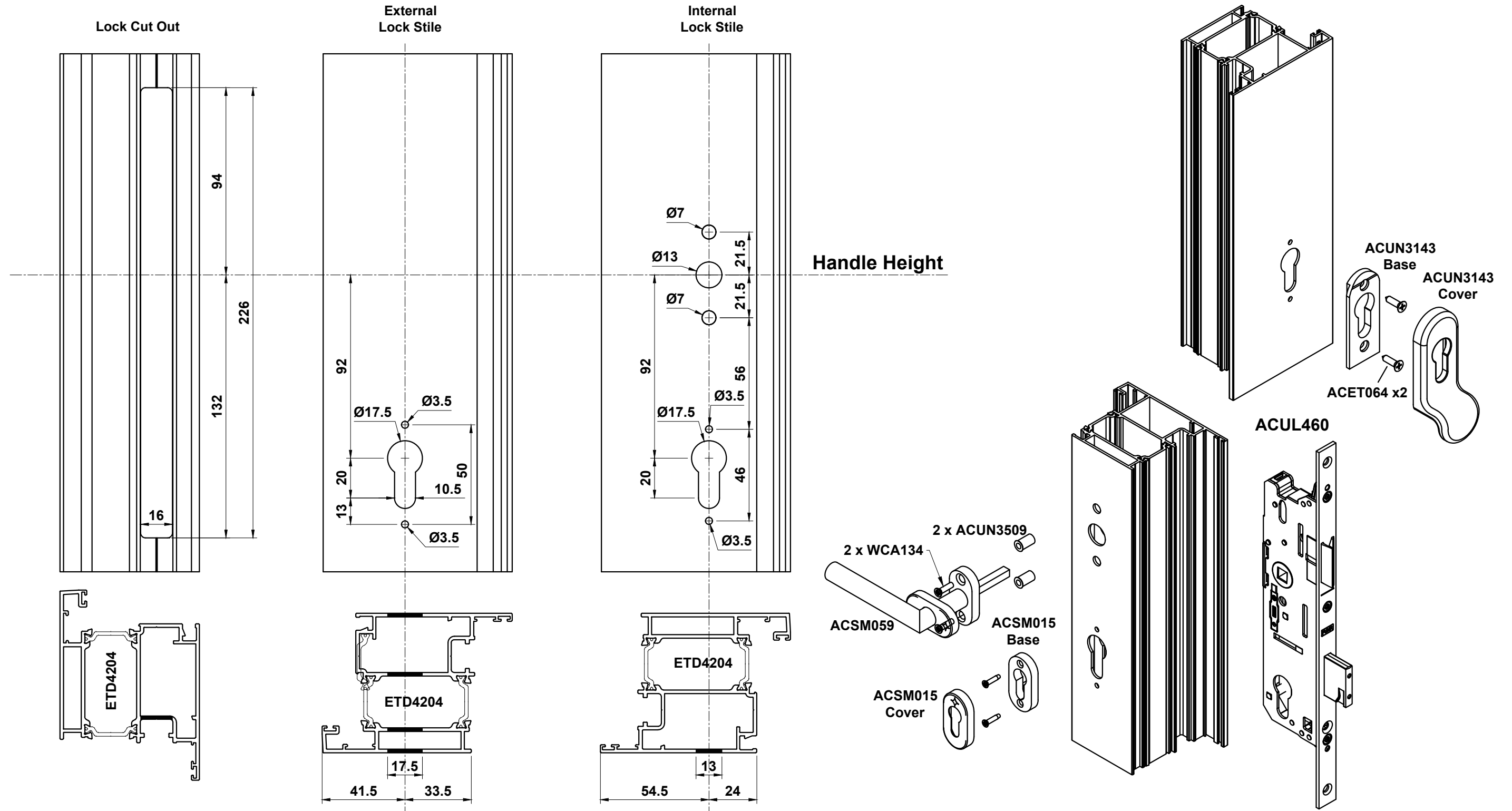


Left Hand Open In ACUL417
Right Hand Open In ACUL416

Can Be Used With		
Hardware	Type	Details
Lock	Key Wind	Page E21
Lock	Single Point	Page E24
Handle	Lever / Cylinder Pull	Page E24
Handle	Straight Pull Handle	Page E25

Do Not Scale From This Drawing

Single Point Lock & Internal Lever Handle Preparation

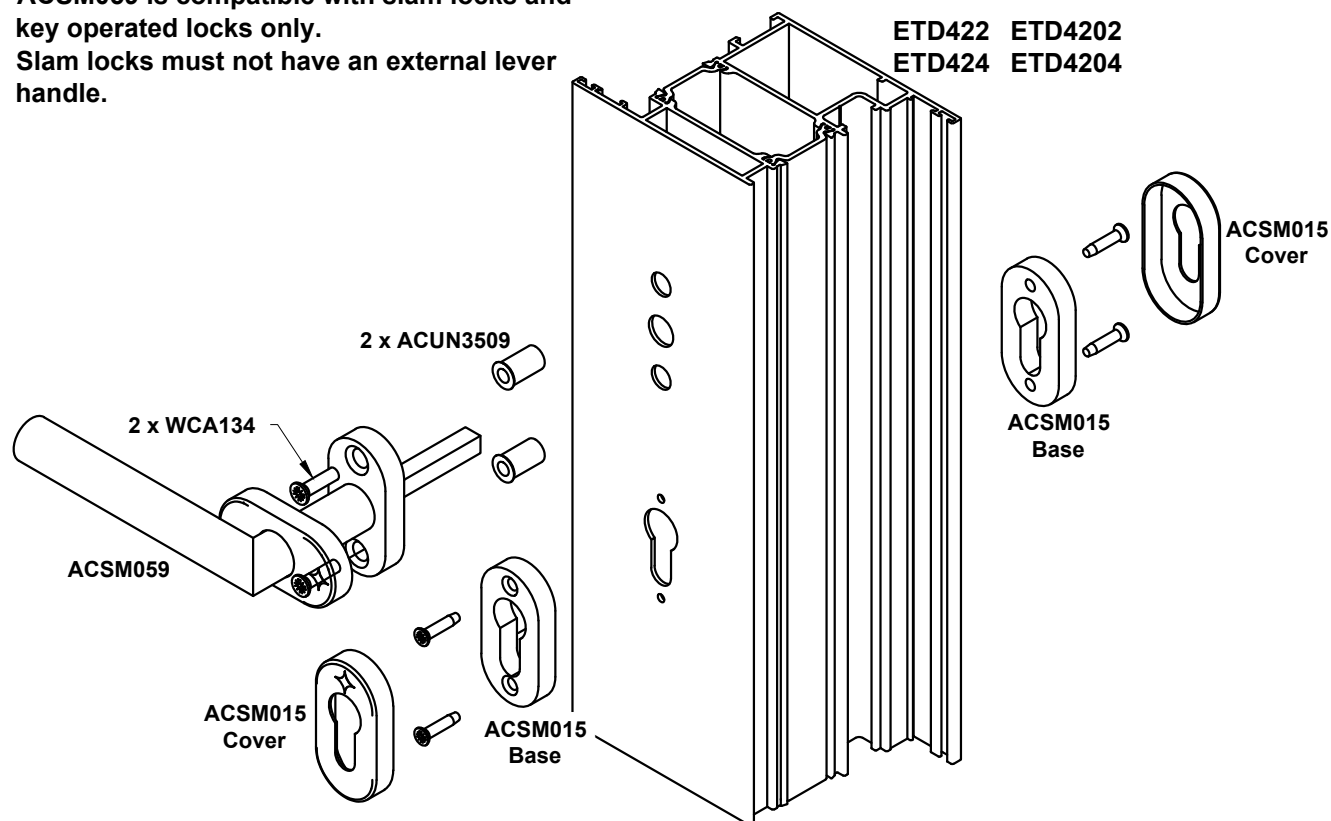


Do Not Scale From This Drawing

Stainless Steel Hardware - ACSM013, ACSM015, ACSM056 & ACSM059 Fitting Detail

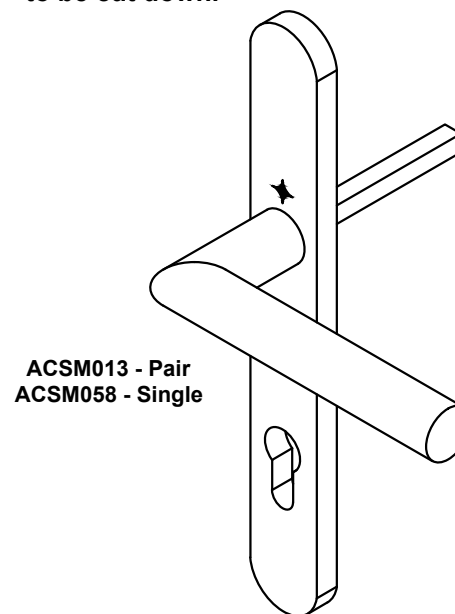
Please Note:

ACSM059 is compatible with slam locks and key operated locks only.
Slam locks must not have an external lever handle.



Please Note:

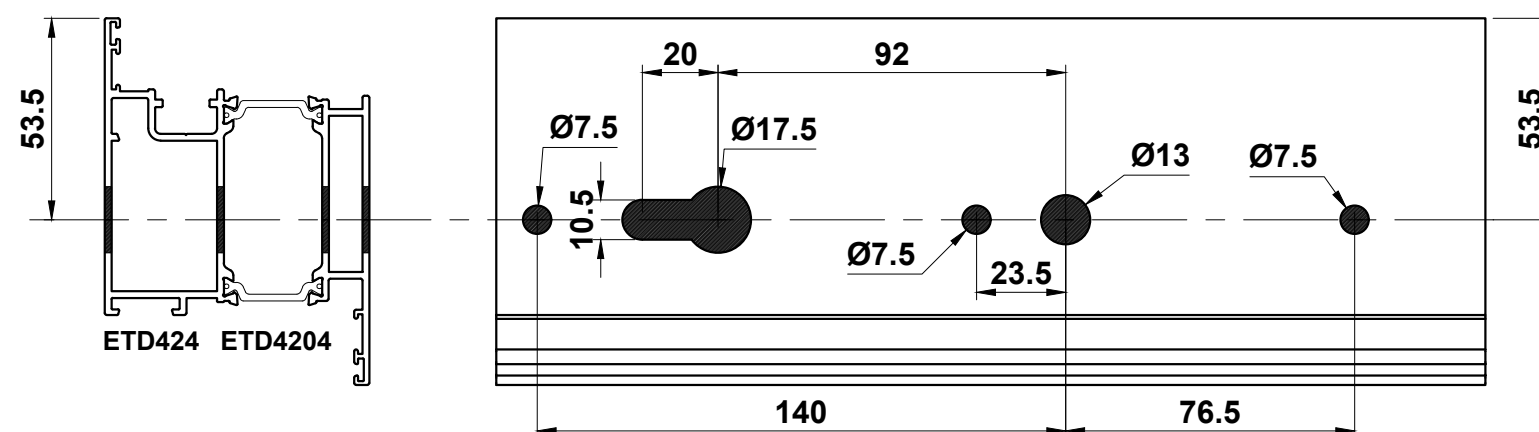
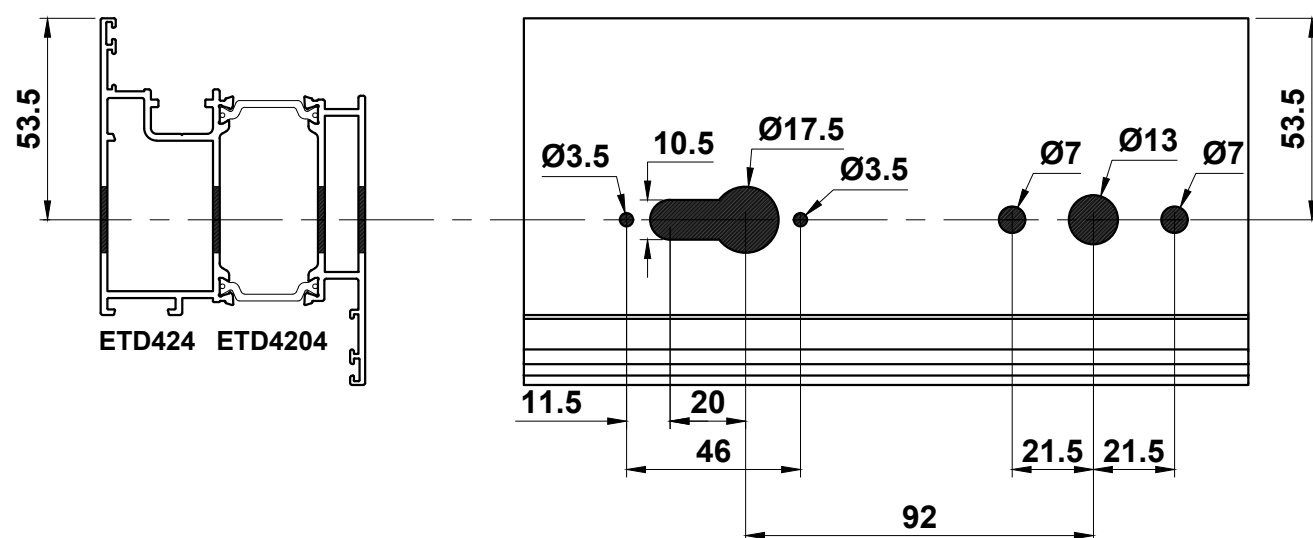
ACSM058 is compatible with all locks.
Slam locks must not have an external lever handle therefore require WCA134 & ACUN3509 for single side fixing and the spindle will need to be cut down.



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

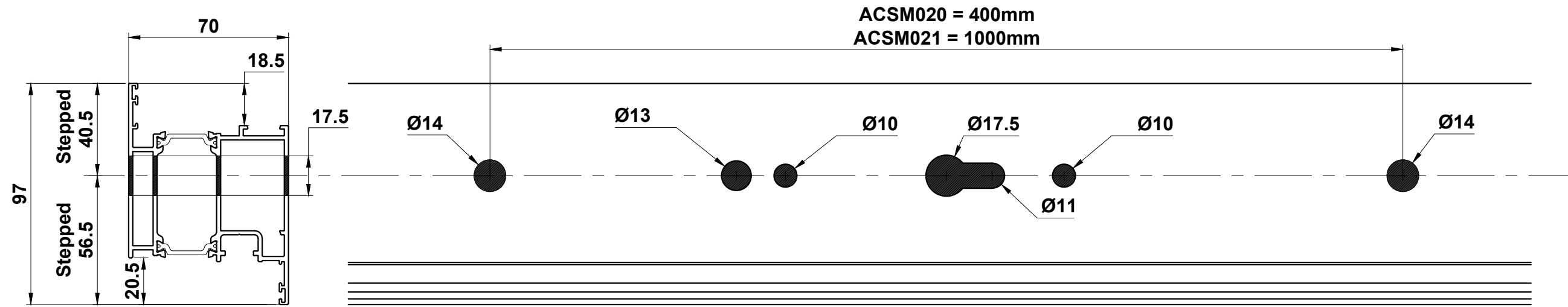
Please Note:

ACSM013SS pack contains;
2 x Universal Backplate & Lever
2 x Cover Plate
2 x Bolt Receiver Sleeve
2 x 40mm M5 Machine Screws
2 X 60mm M5 Machine Screws
1 x 3mm Allen Key
1 x 170mm Spindle

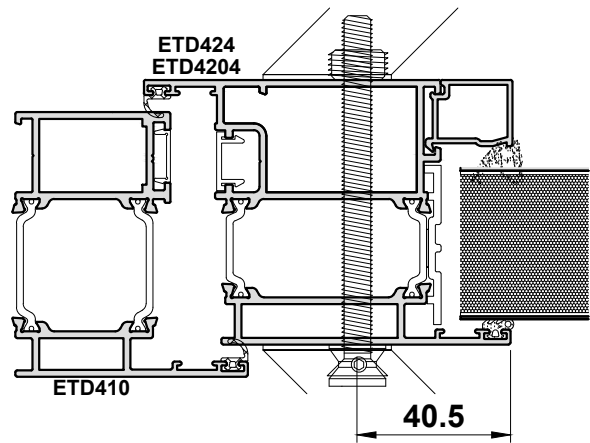


Do Not Scale From This Drawing

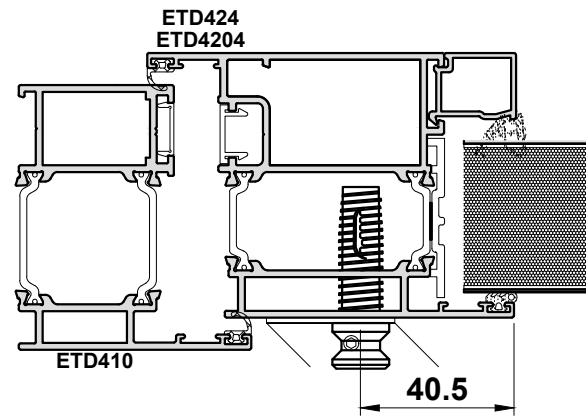
ACSM020 & ACSM021 Fitting Detail



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



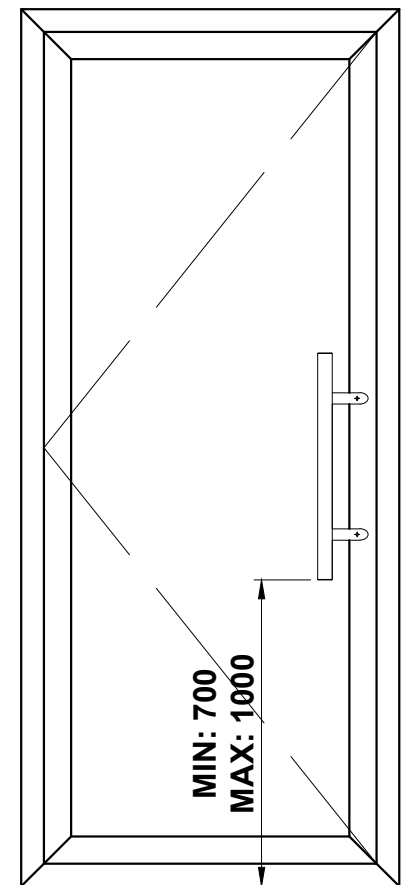
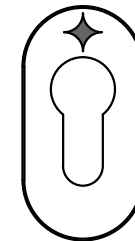
ACSM031 fixing kit is to be used when fixing two back to back handles. Screw will need to be cut down to size.



If a single handle is required, please use ACSM037 or ACSM038 single handle with ACSM030 Secret fixing.

We recommend to use ACSM015 escutcheon and position in-line with the handle fixings as shown in the above prep.

ACSM015

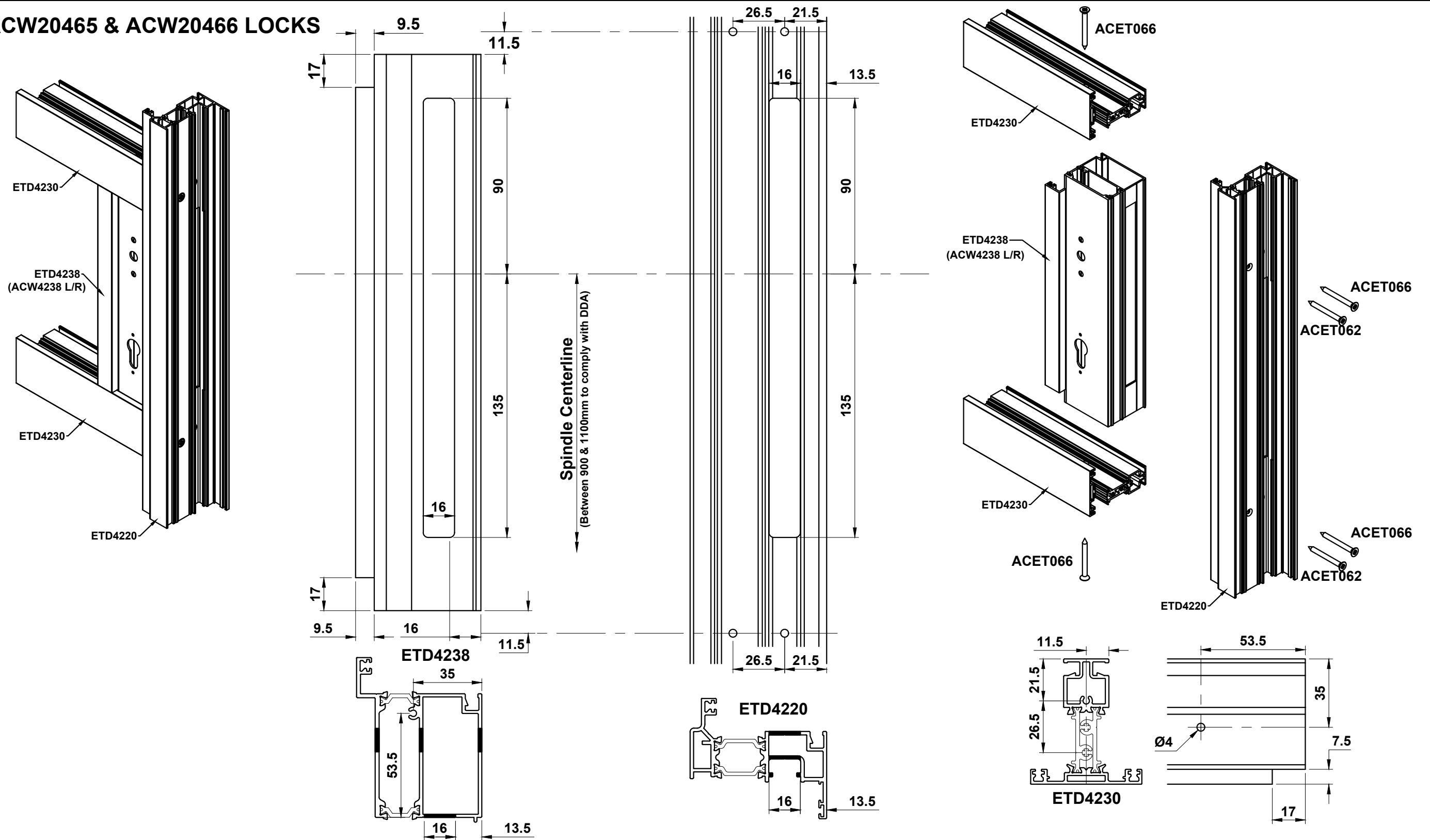


Length (mm)	Single Handles	Fixing Kits
600	ACSM037SS	ACSM030
1200	ACSM038SS	
	Pair Handles	
600	ACSM020SS	ACSM031
1200	ACSM021SS	

Do Not Scale From This Drawing

Heritage Open In Door Lock Preparation

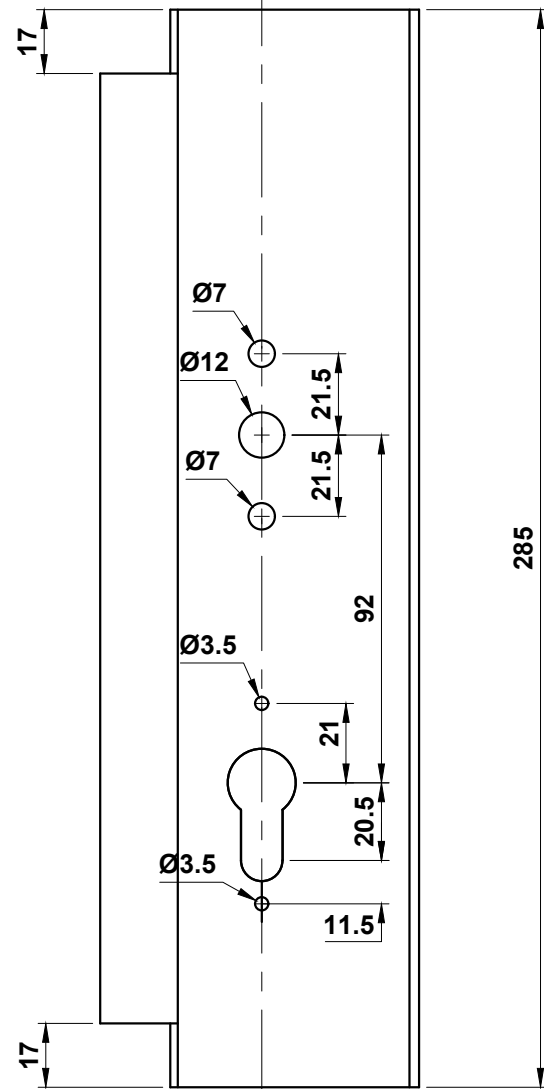
FOR ACW20465 & ACW20466 LOCKS



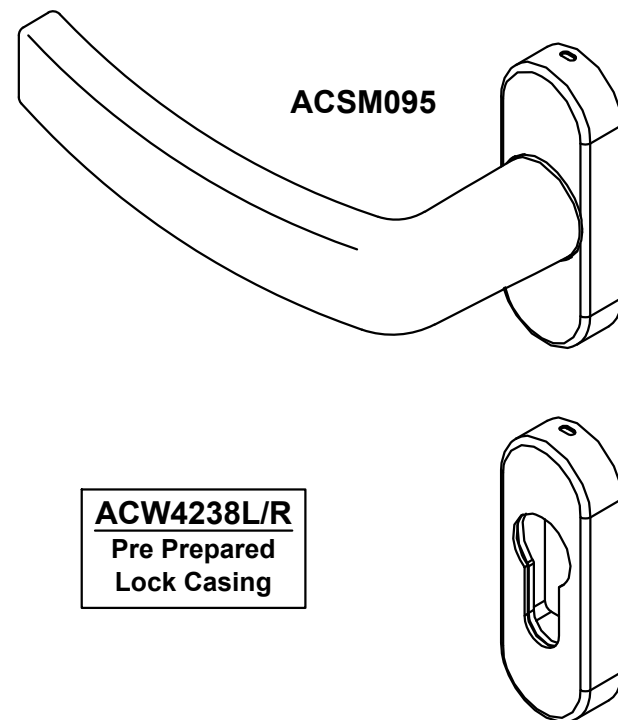
Do Not Scale From This Drawing

Heritage Open In Door Handle Preparations

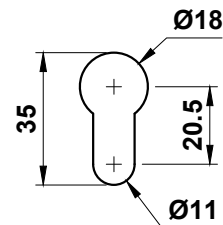
ACW4238L



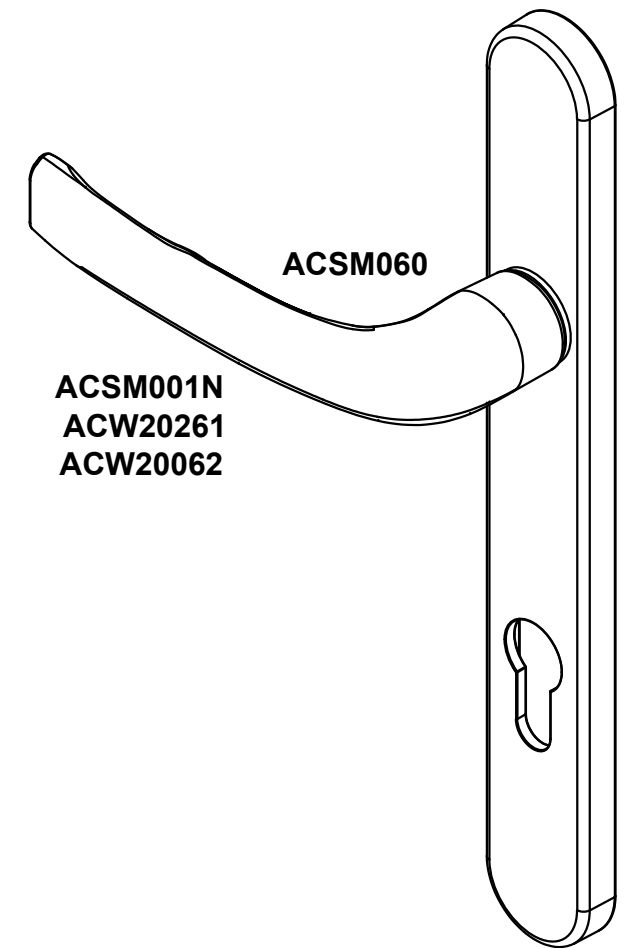
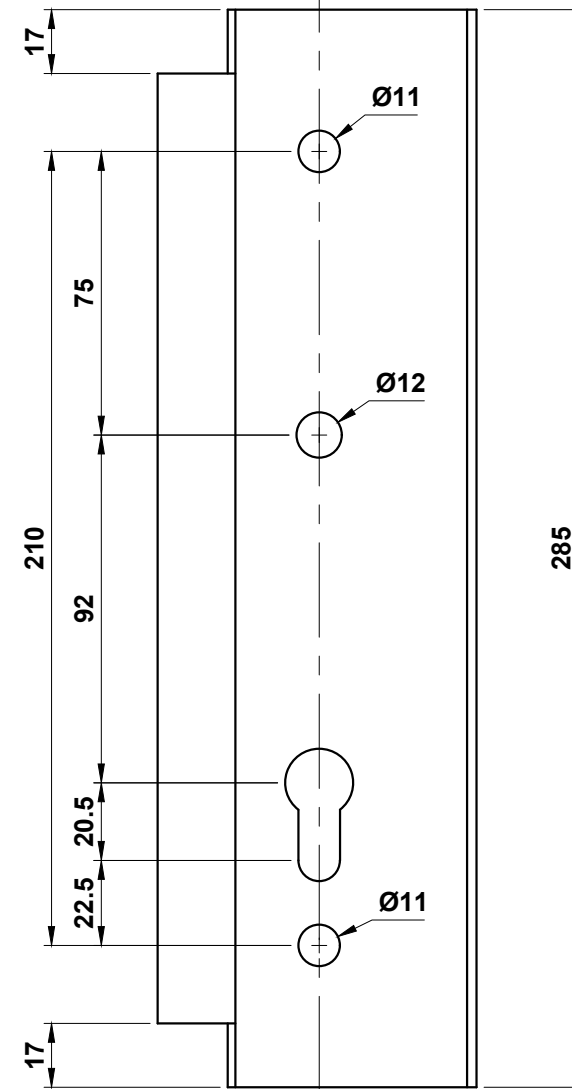
Lever Handle & Oval Rose



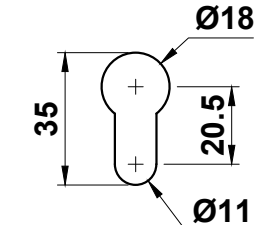
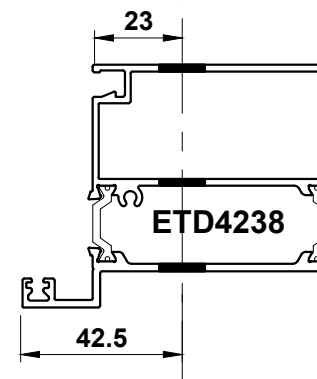
ACW4238L/R
Pre Prepared
Lock Casing



Long Escutcheon Handles

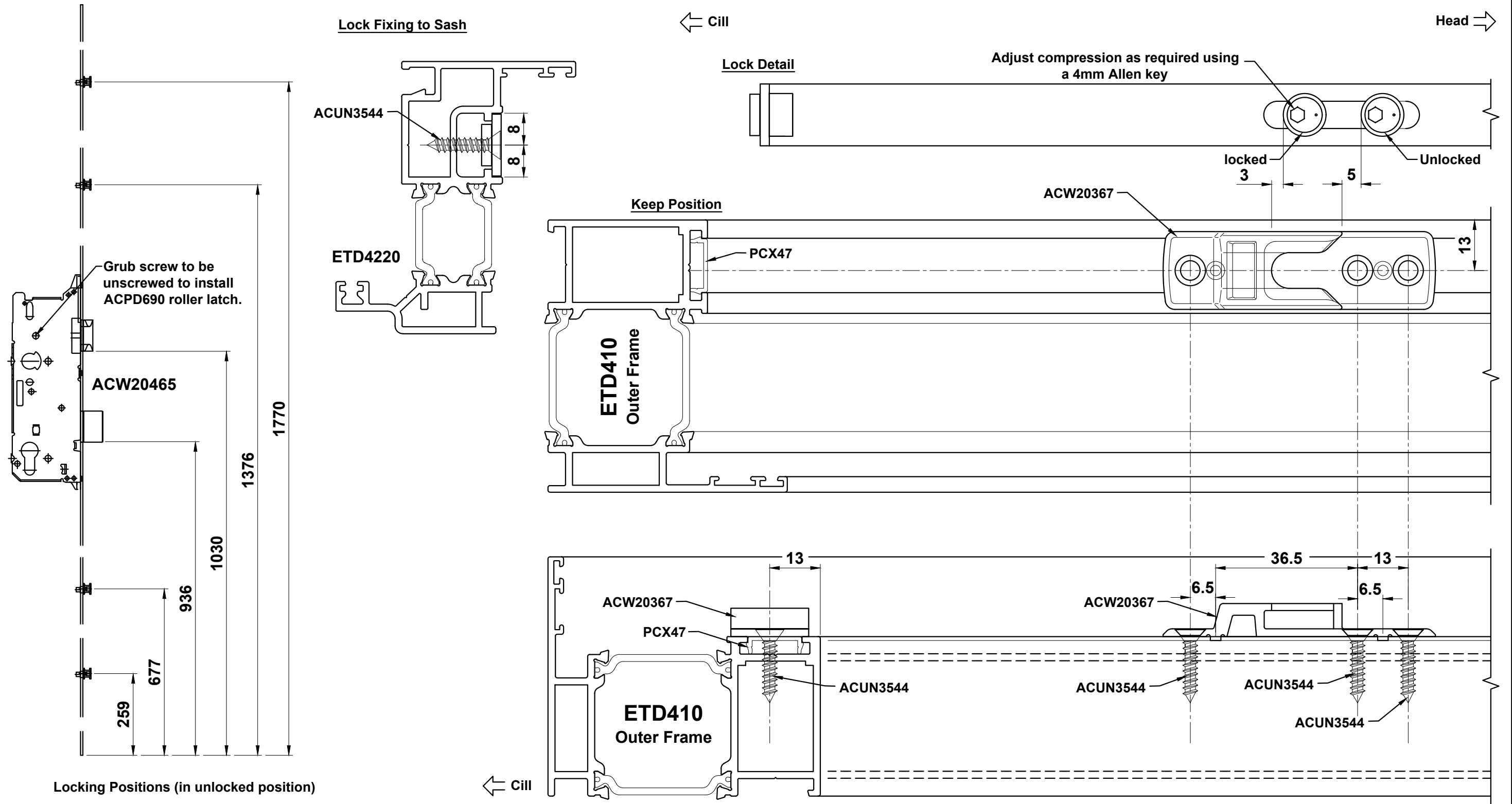


ACSM001N
ACW20261
ACW20062



Do Not Scale From This Drawing

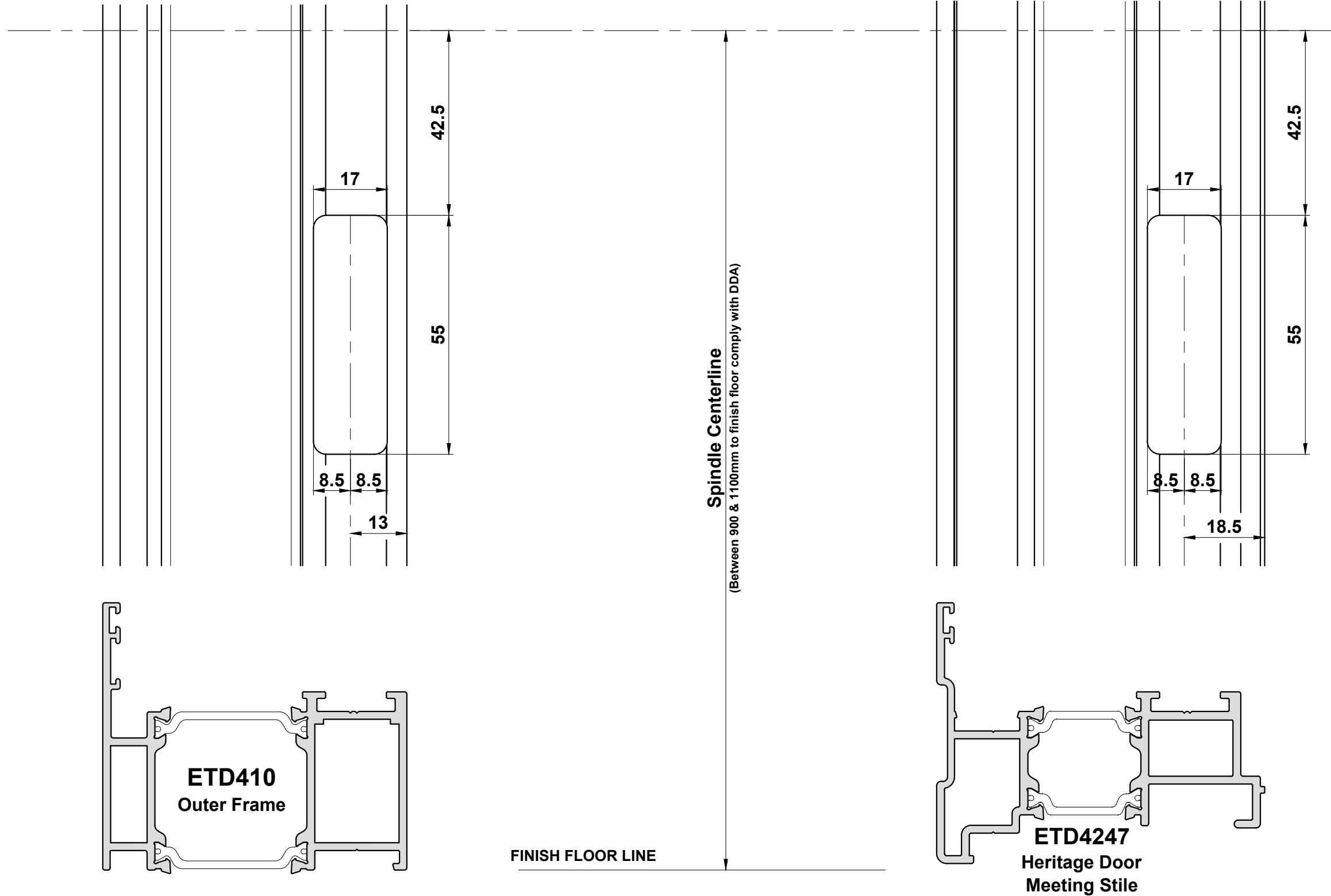
Heritage ACW20367 Door Keep Position Guide



Do Not Scale From This Drawing

Heritage ACW20066 L/R Door Centre Keep Preparation

ACW20166 Open In Centre Keep



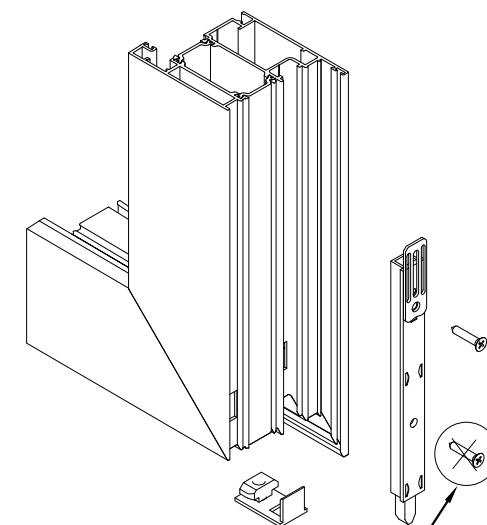
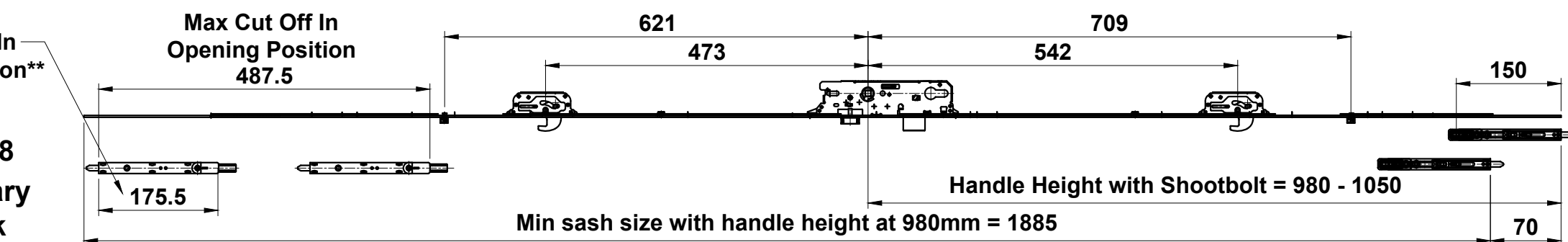
Do Not Scale From This Drawing

Double Door Lift Lever Shootbolt Layout

Note: ACDV742 & ACDV744 extensions may used with all locks

**Min Cut Off In —
Opening Position****

ACUL277 & ACUL278 Short Primary Door Lock



**For mechanically
connected corners
substitute fixing for
ACUN234**

ETD410 = 34

ETD490 = 11.5

ETD495 = 21

**Min Cut Off In —
Opening Position****

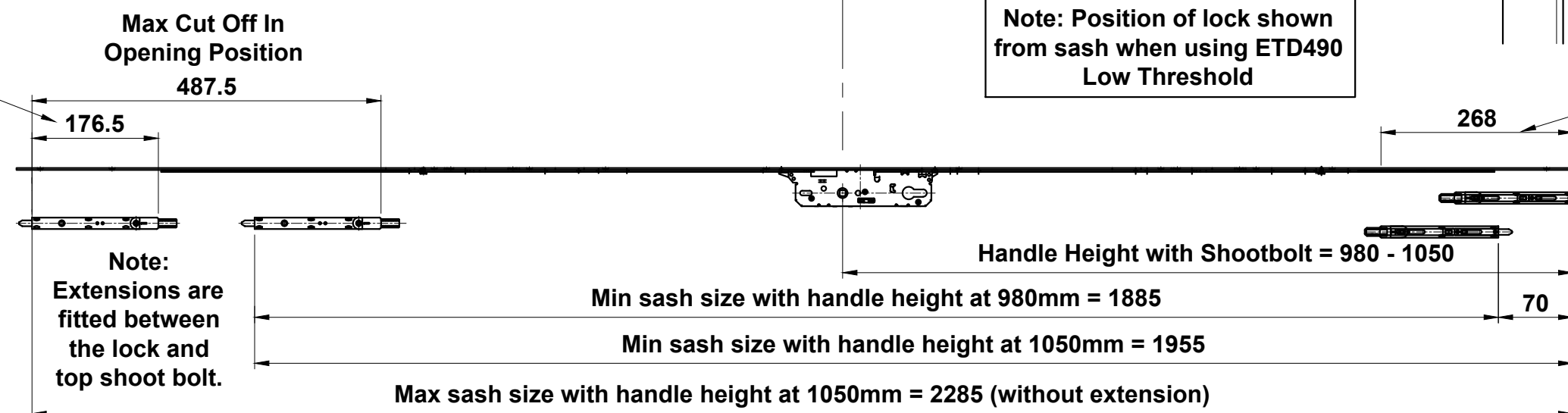
ACUL276

Short Secondary Door Lock

Note:
Extensions are fitted between the lock and top shoot bolt.

**Note: Position of lock shown
from sash when using ETD490
Low Threshold**

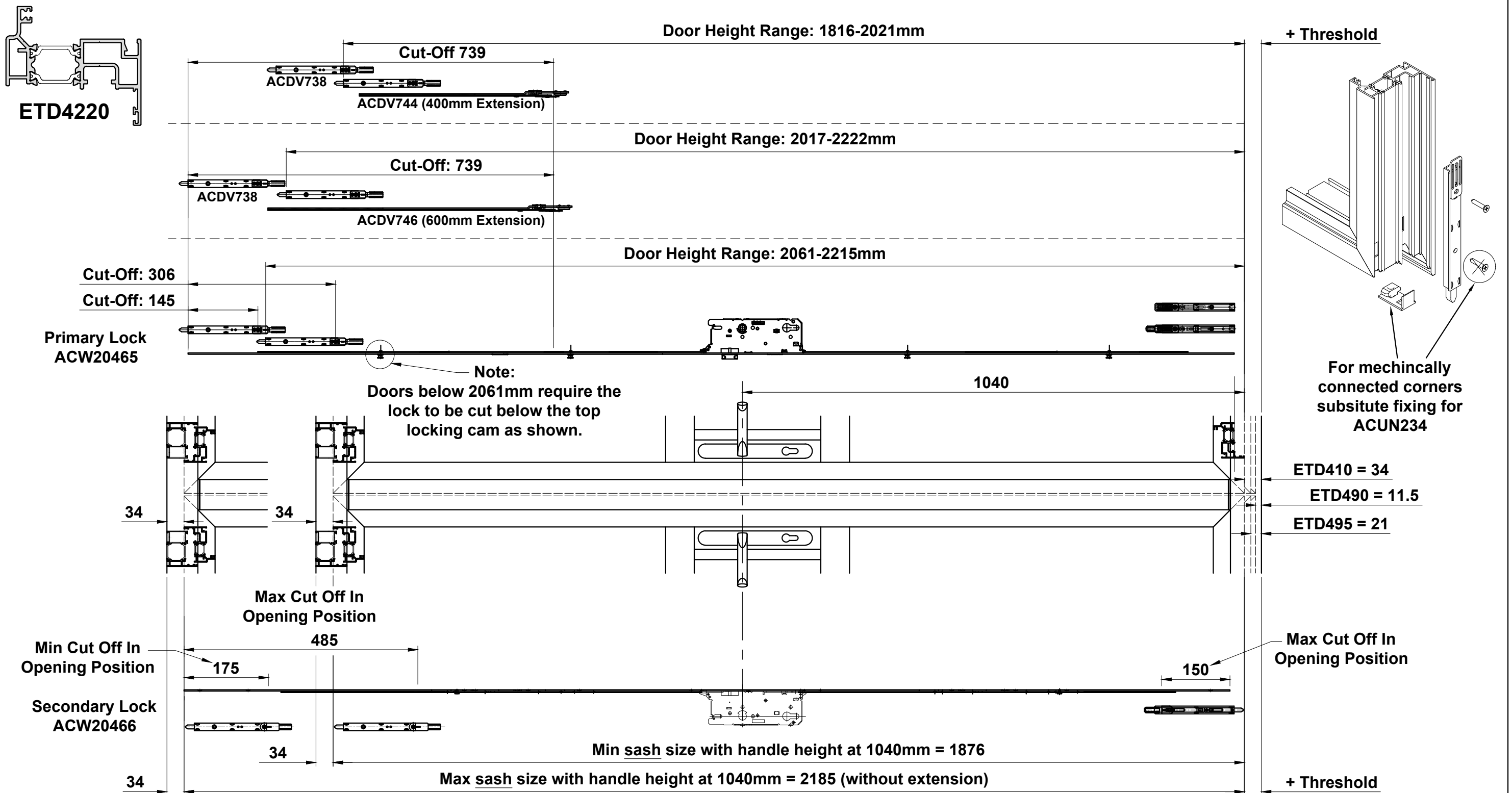
**Max Cut Off In
Opening Position****



*Maximum sash height is 2500mm. Sizes shown here only indicate sizes with ACDV744.

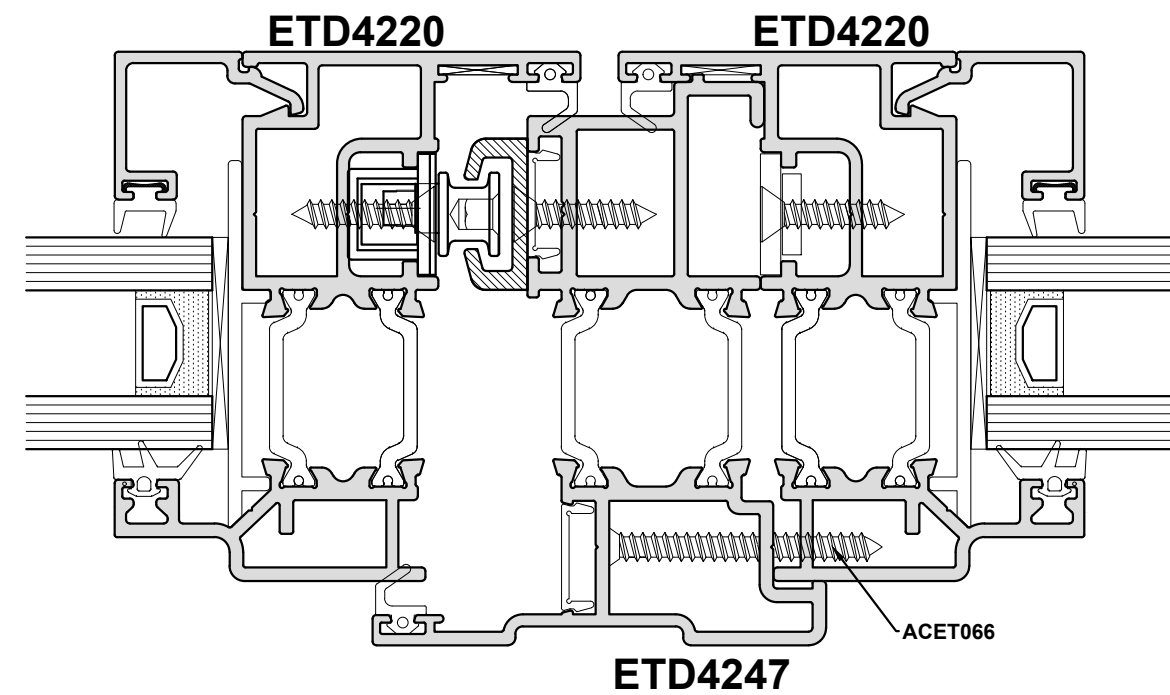
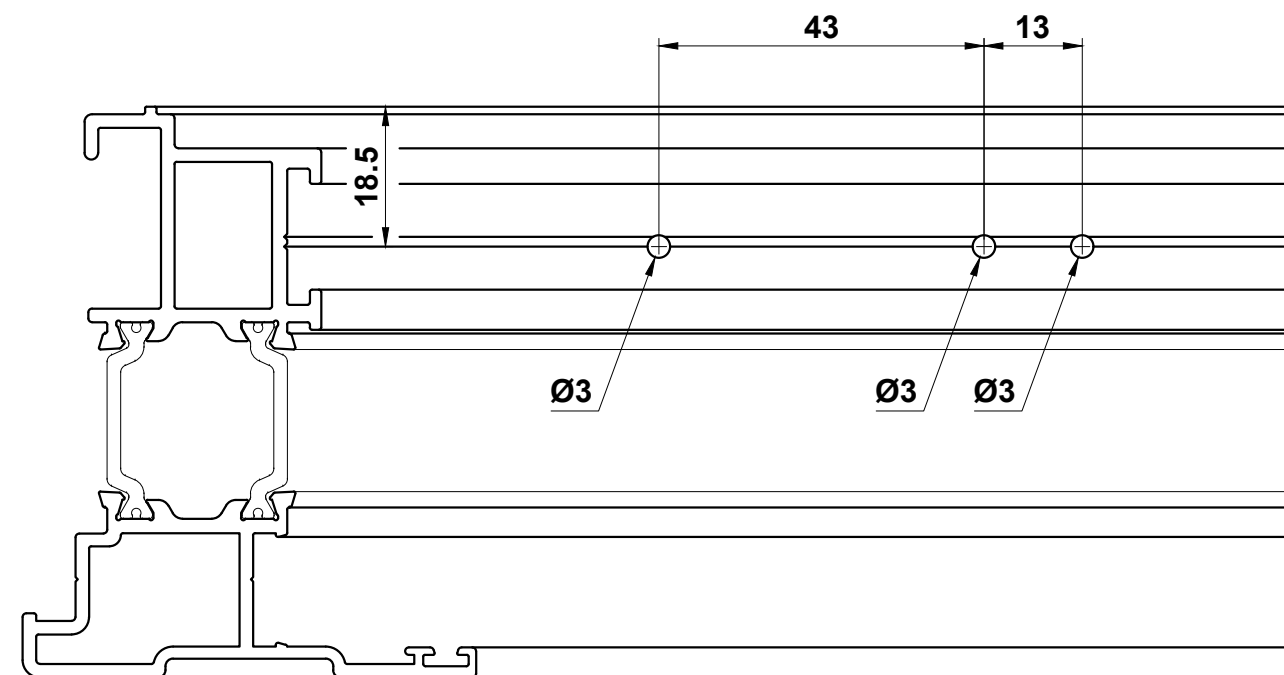
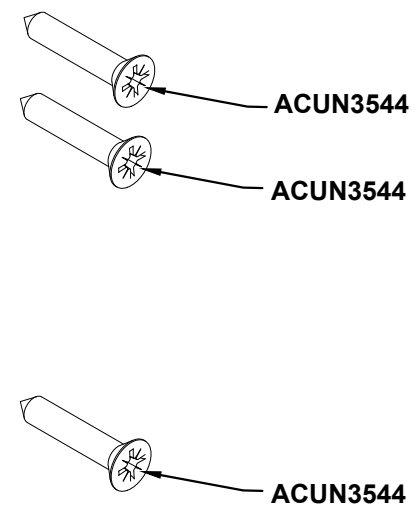
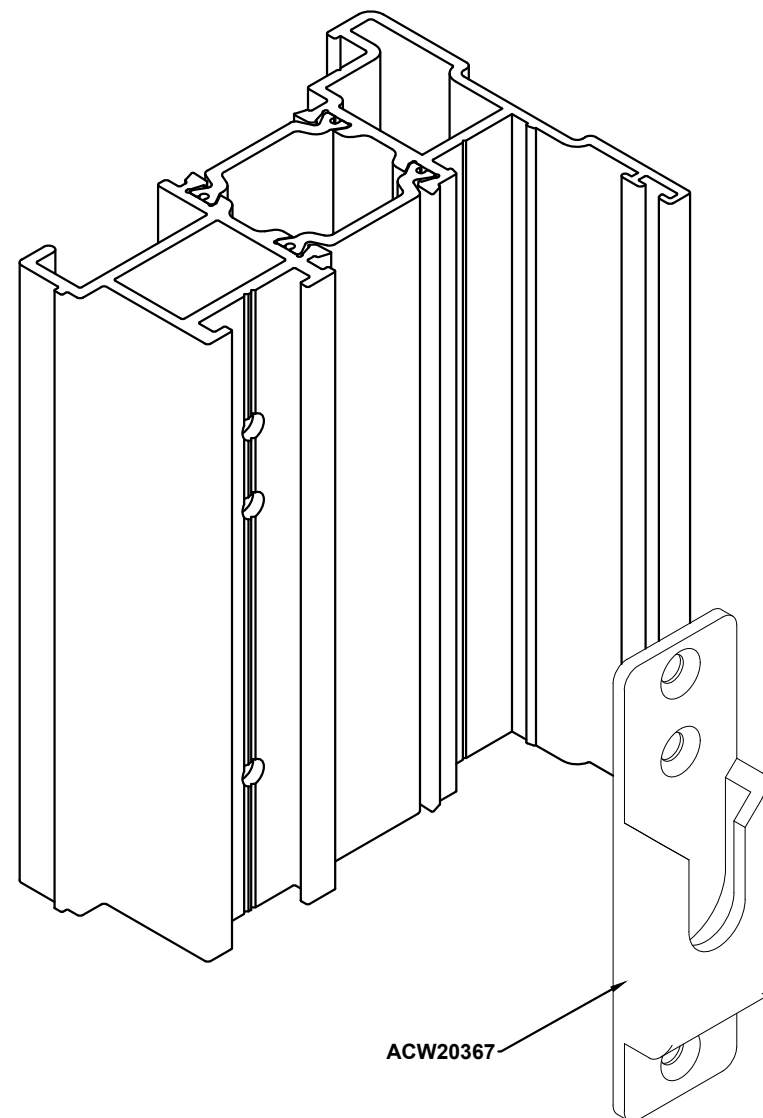
Do Not Scale From This Drawing

Heritage Double Door Lift Lever Shootbolt Layout



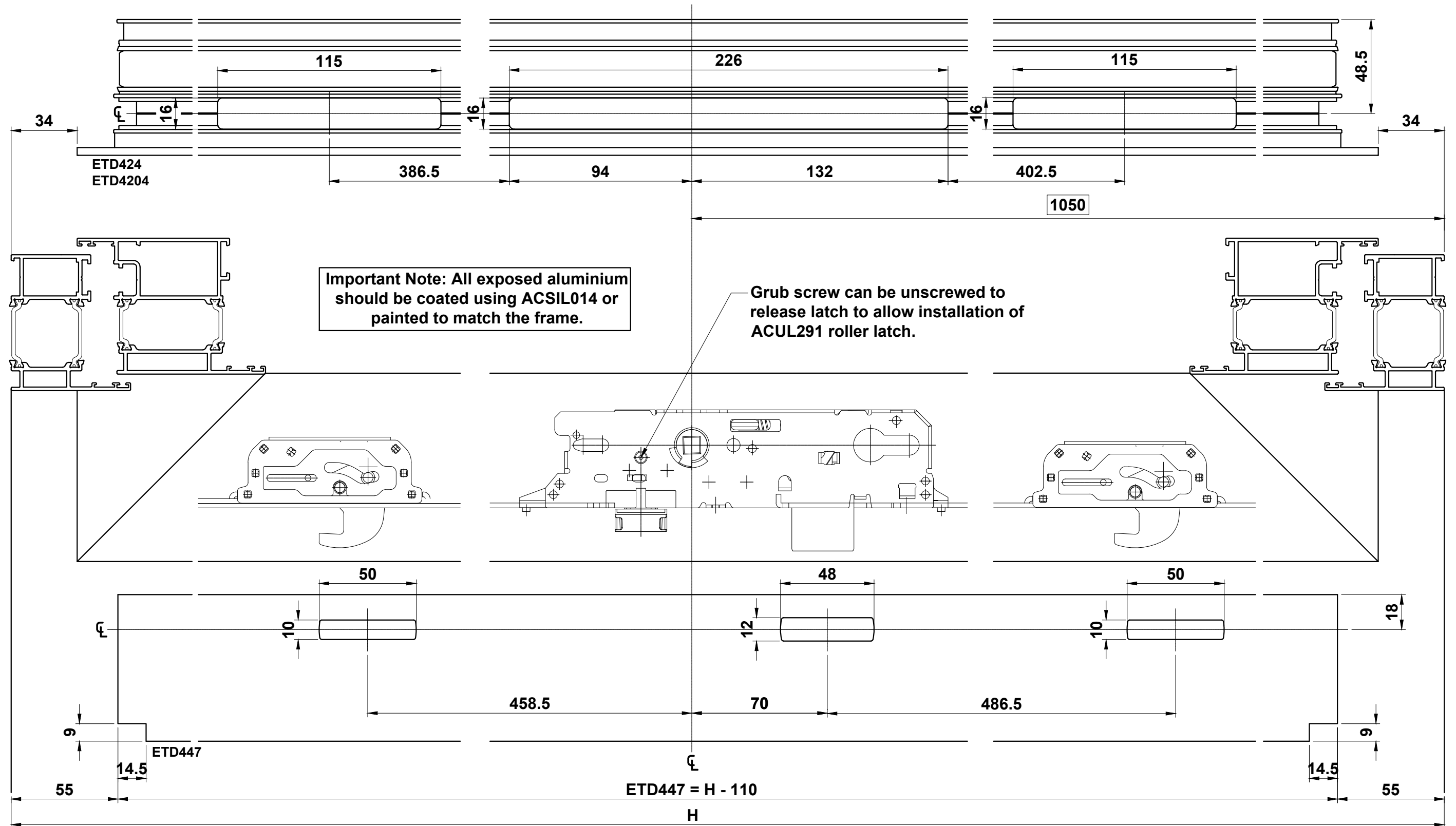
Do Not Scale From This Drawing

Heritage ACW20367 Floating Mullion Installation



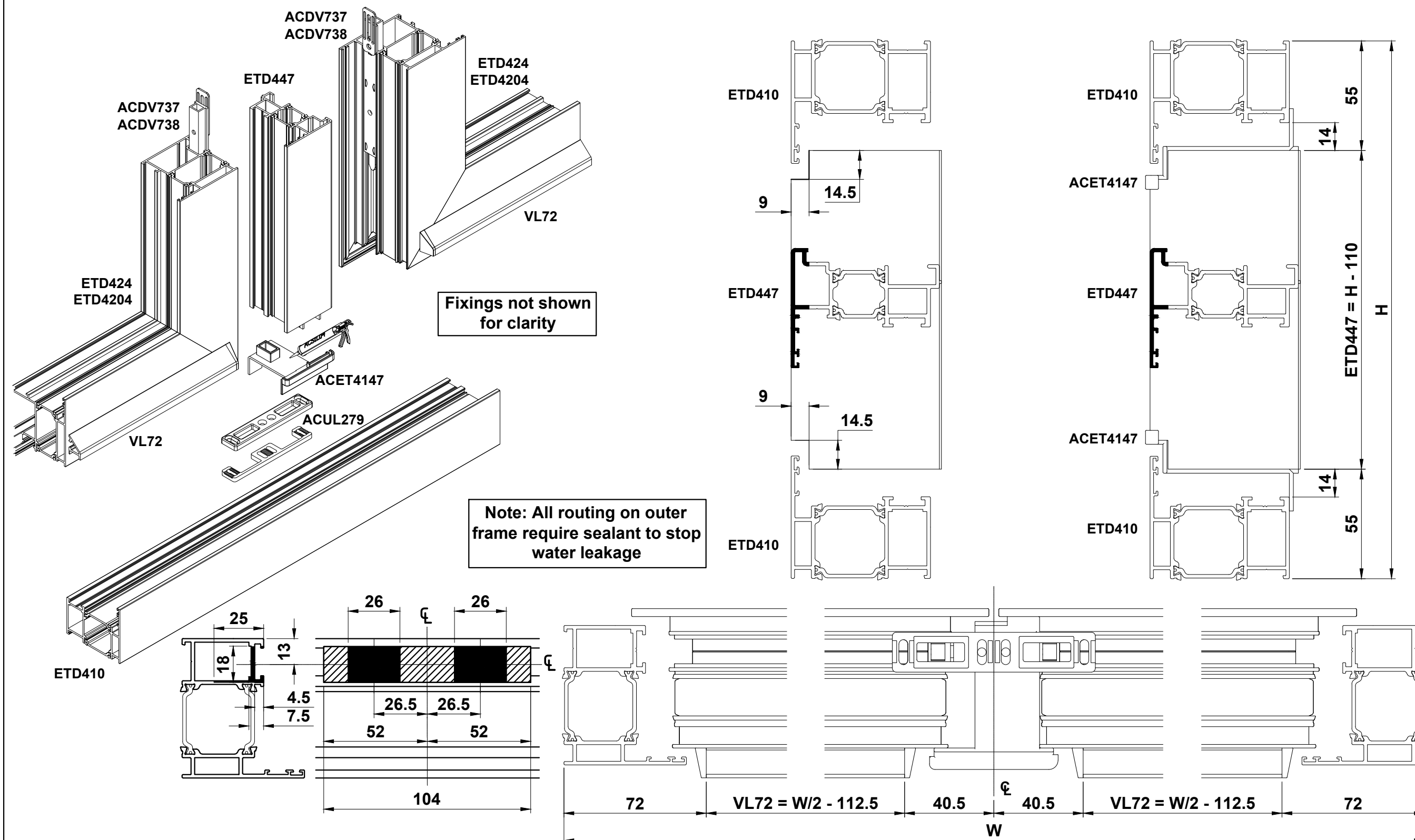
Do Not Scale From This Drawing

Double Door Lift Lever Lock Preparation for Full Frame



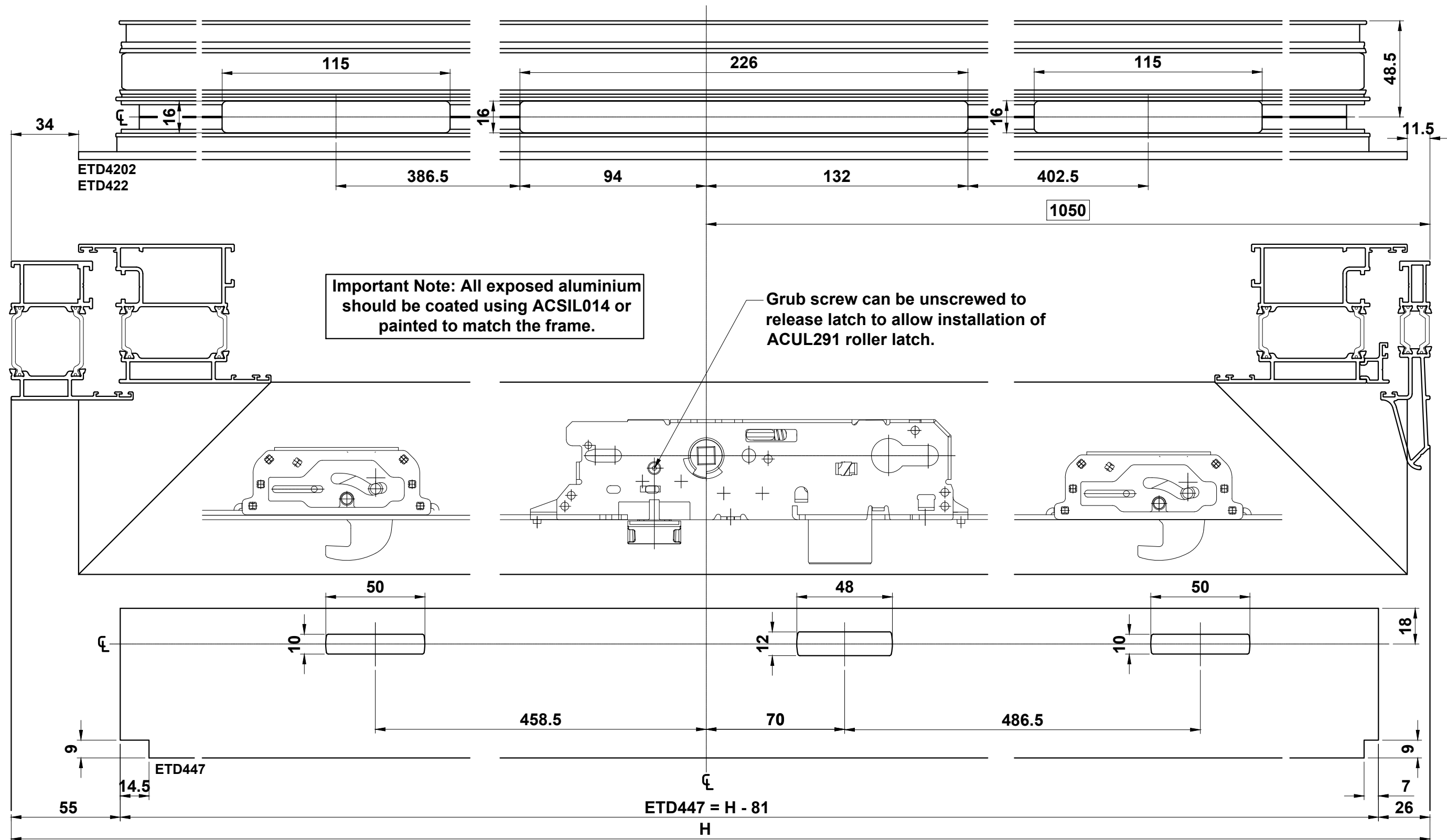
Do Not Scale From This Drawing

Double Door Lift Lever Meeting Stile Assembly for Full Frame

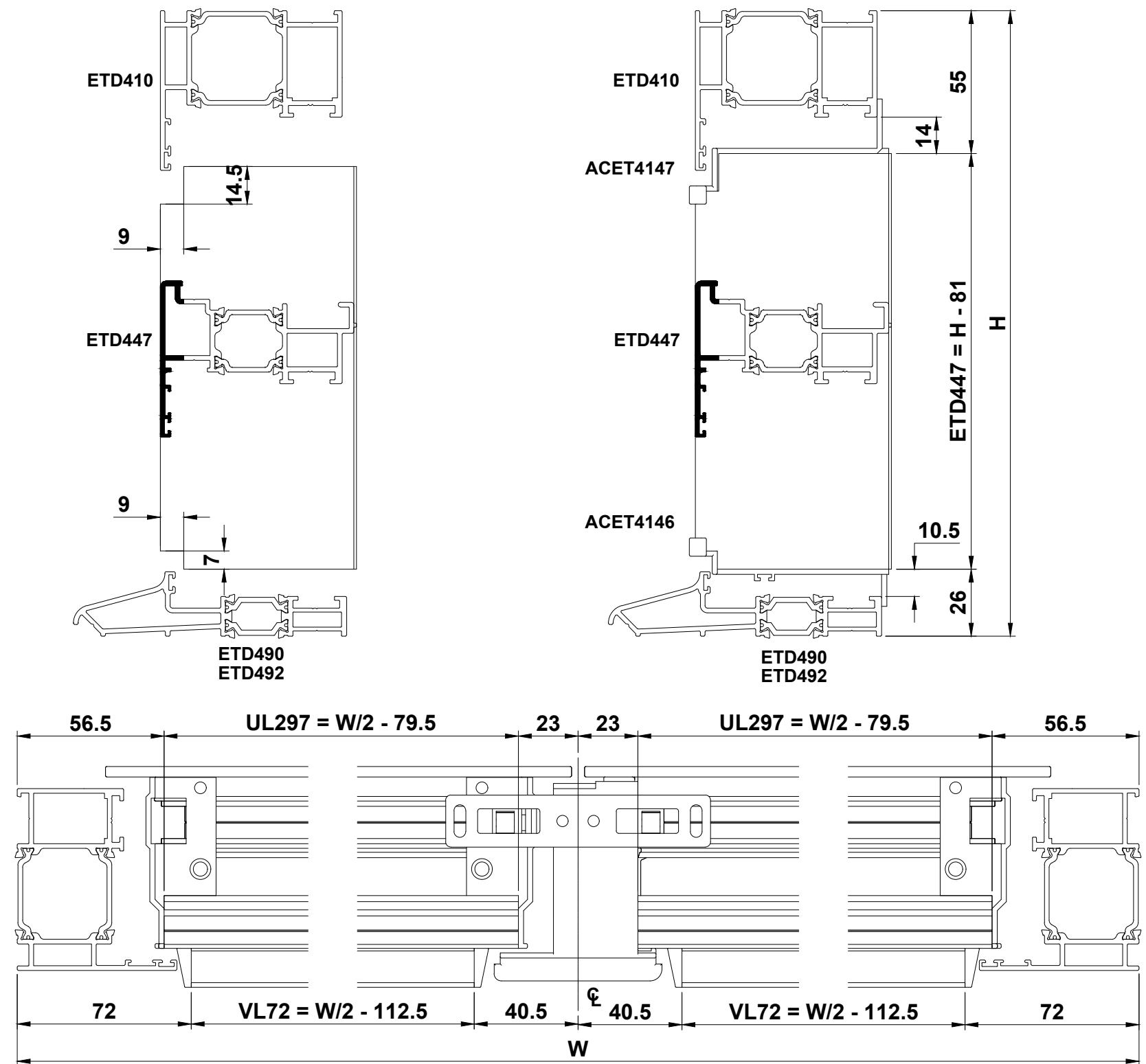


Do Not Scale From This Drawing

Double Door Lift Lever Lock Preparation for Low Rebate Threshold

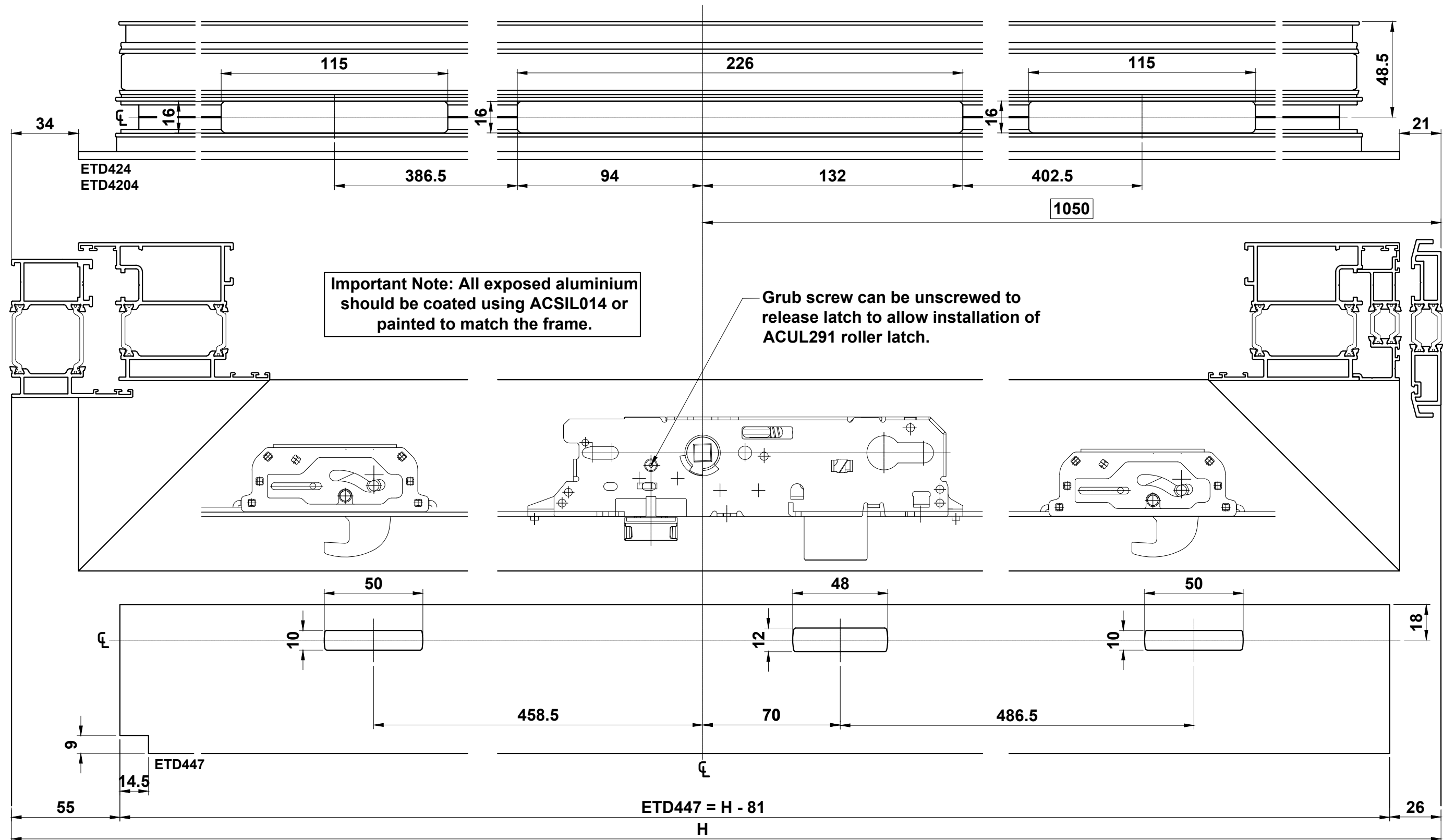


Do Not Scale From This Drawing

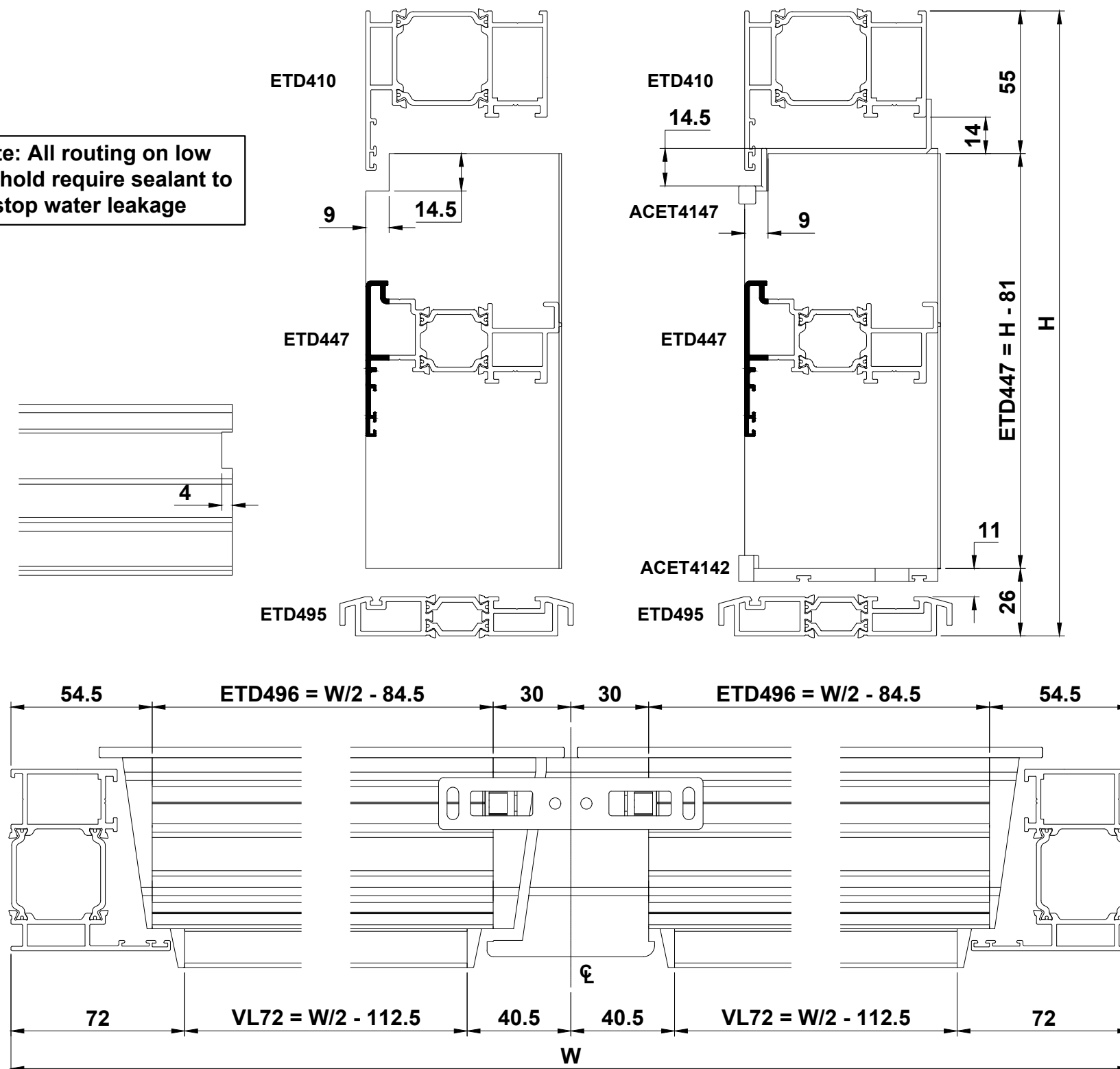
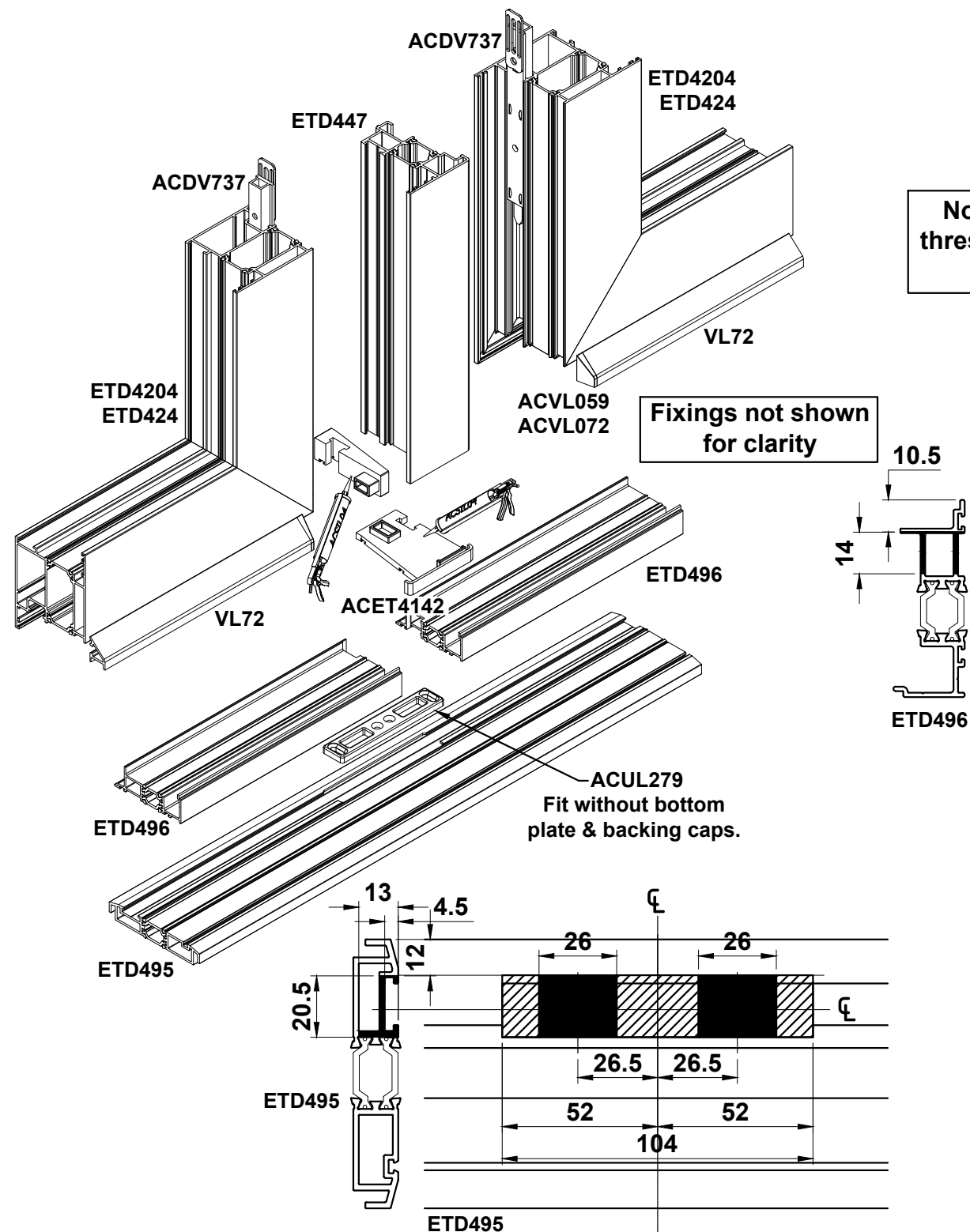


Do Not Scale From This Drawing

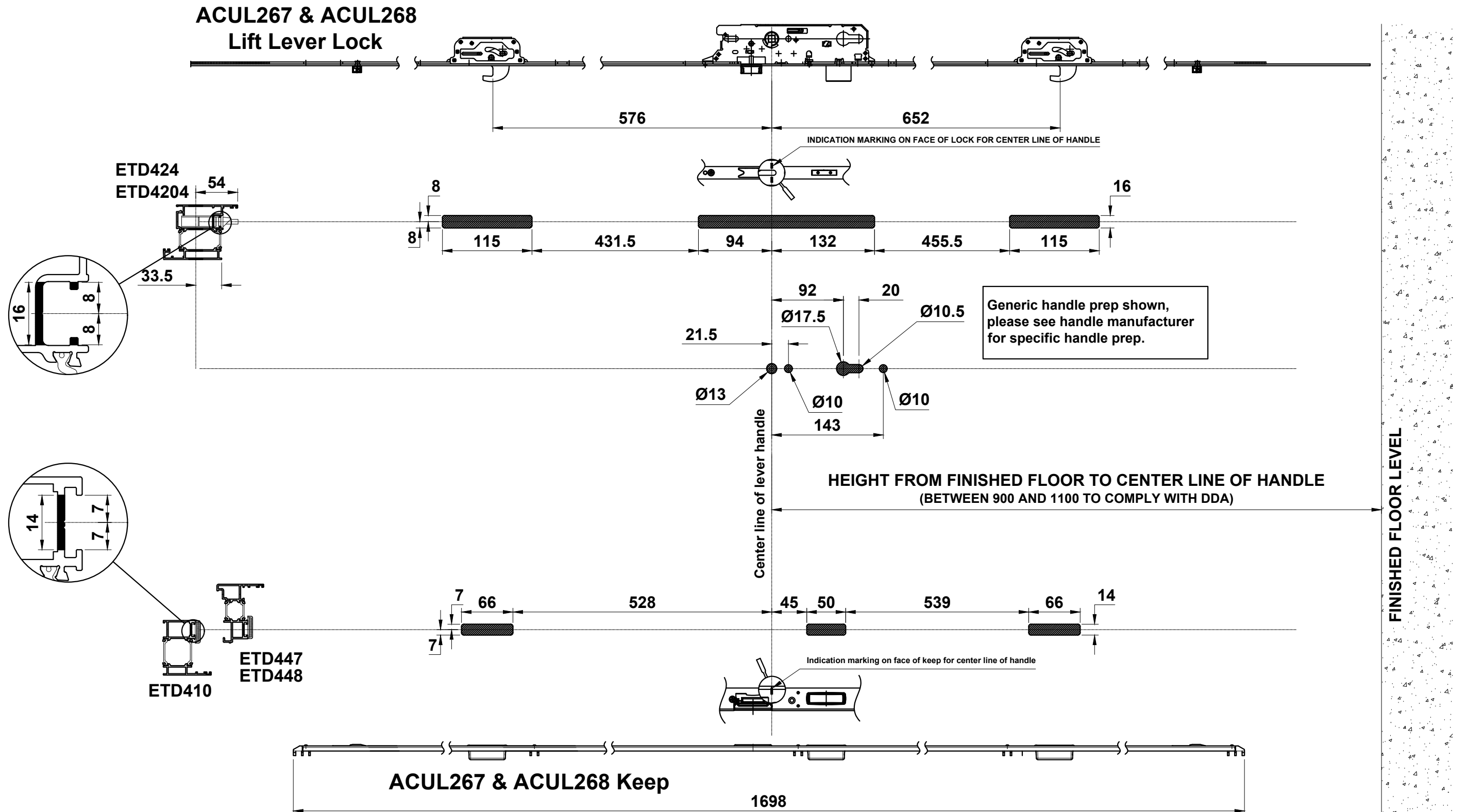
Double Door Lift Lever Lock Preparation for Low Ramp Threshold



Double Door Lift Lever Meeting Stile Assembly for Low Ramp Threshold

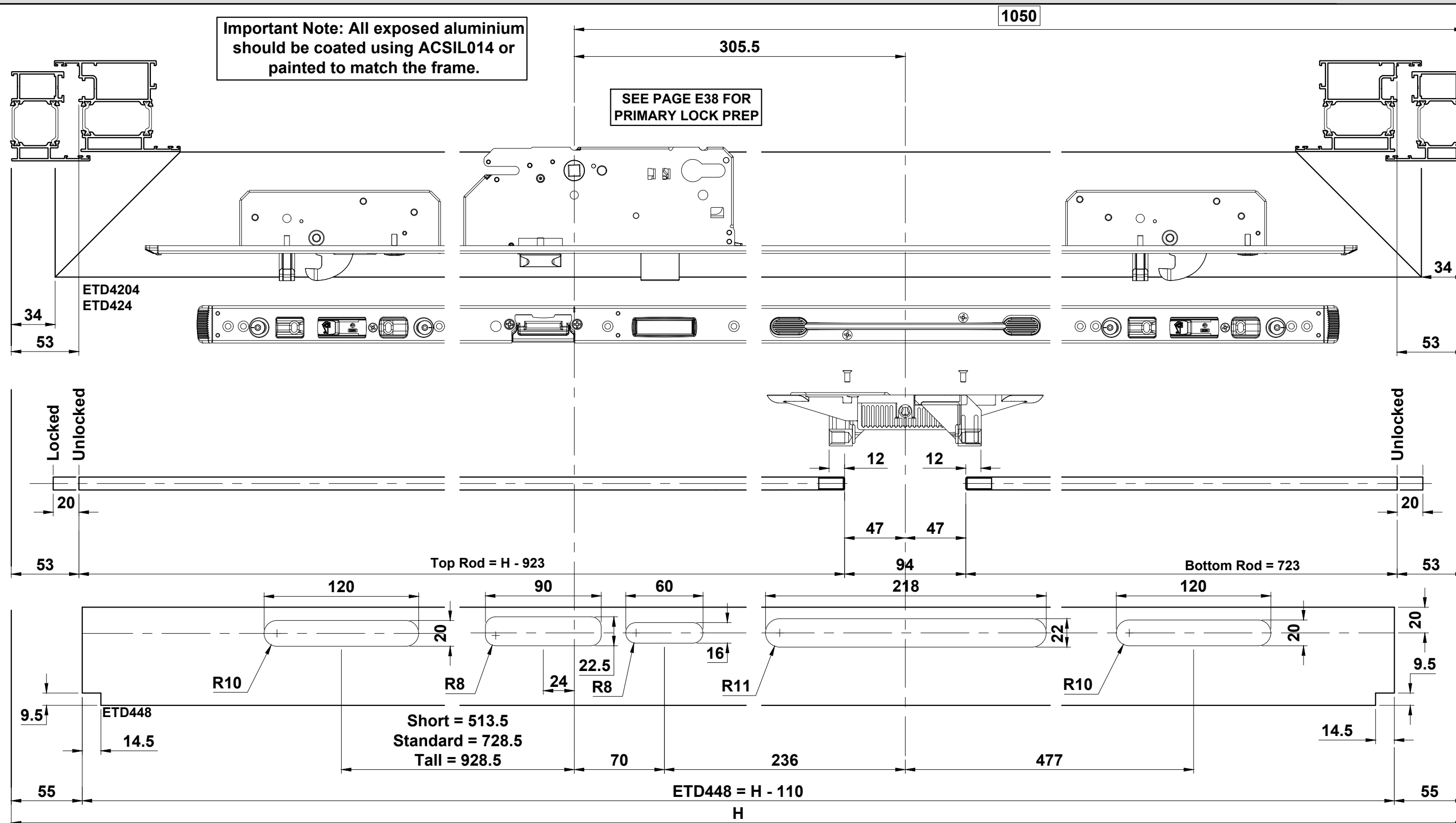


ACUL267 & ACUL268 Lift Lever Lock Preparation



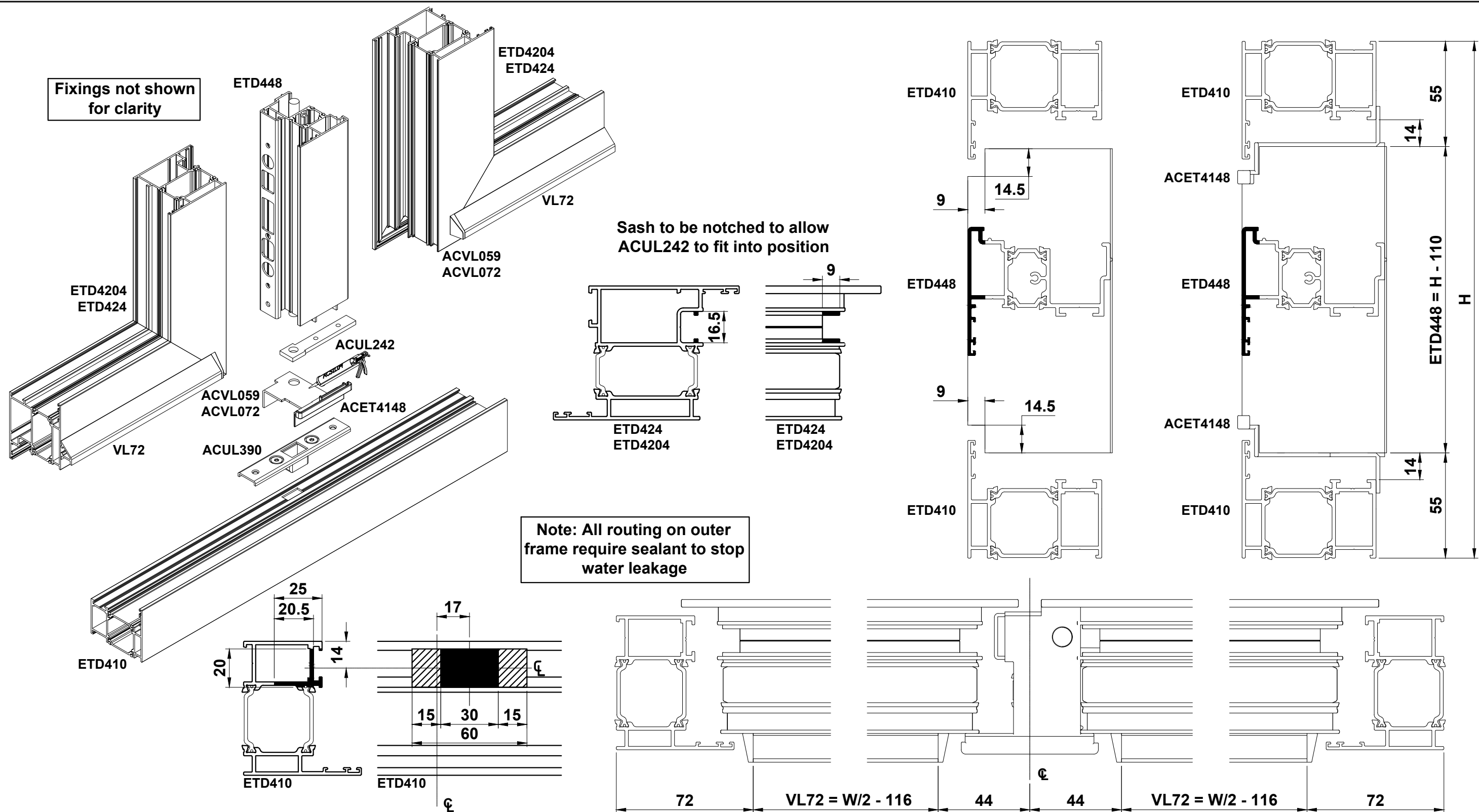
Do Not Scale From This Drawing

Double Door Finger Bolt Lock Preparation for Full Frame



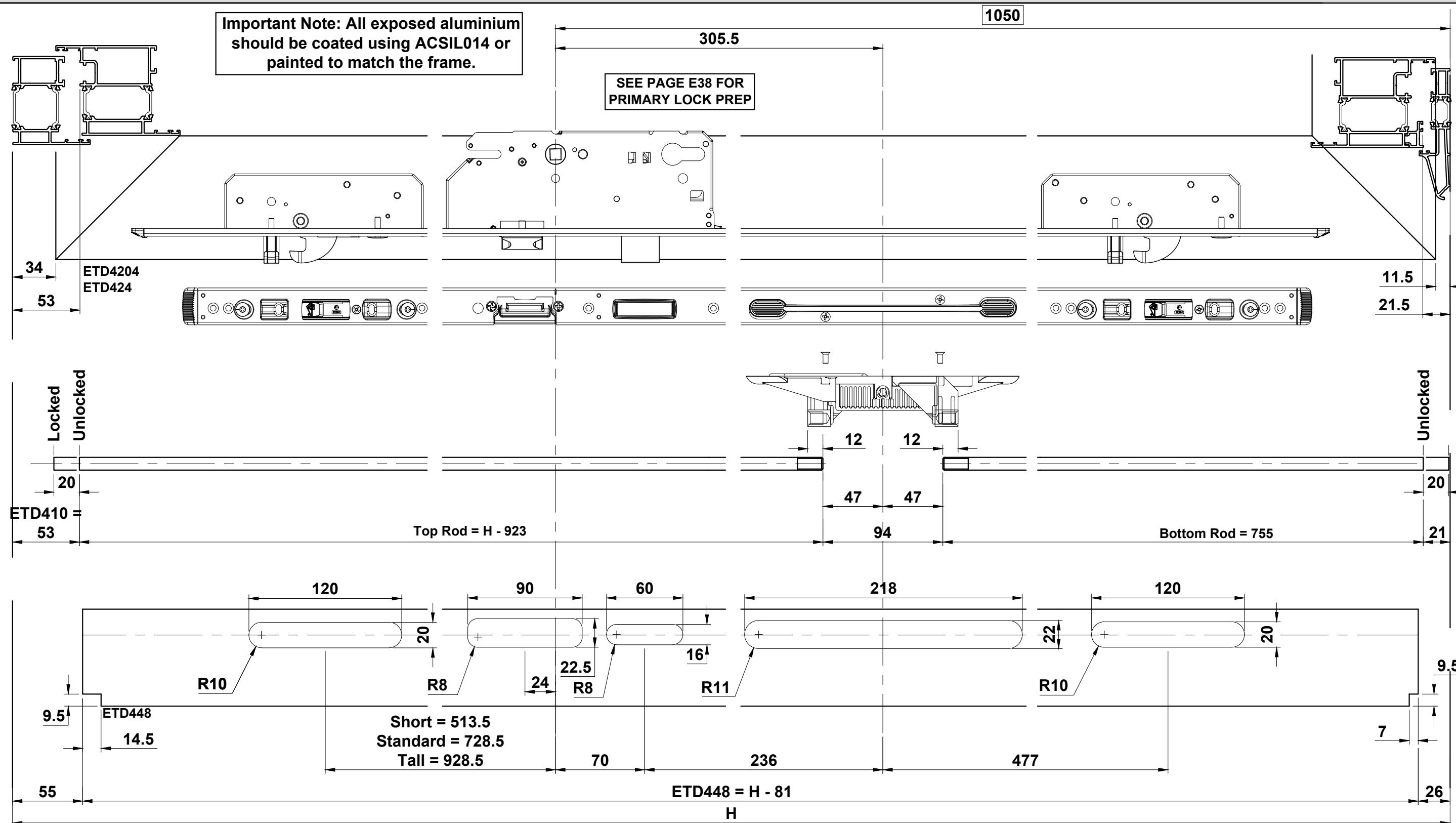
Do Not Scale From This Drawing

Double Door Finger Bolt Meeting Stile Assembly for Full Frame

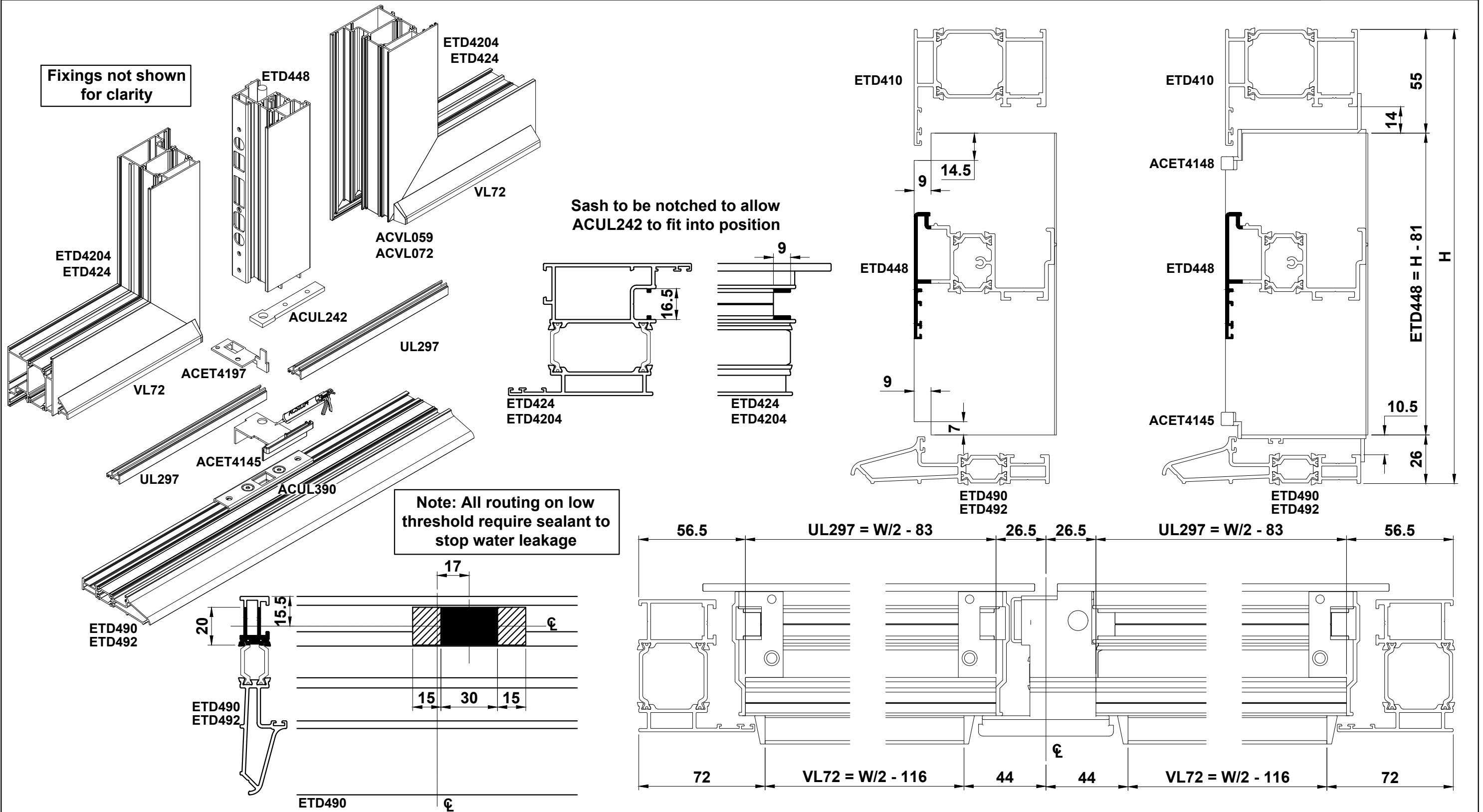


Do Not Scale From This Drawing

Double Door Finger Bolt Lock Preparation for Low Rebate Threshold



Double Door Finger Bolt Meeting Stile Assembly for Low Rebate Threshold

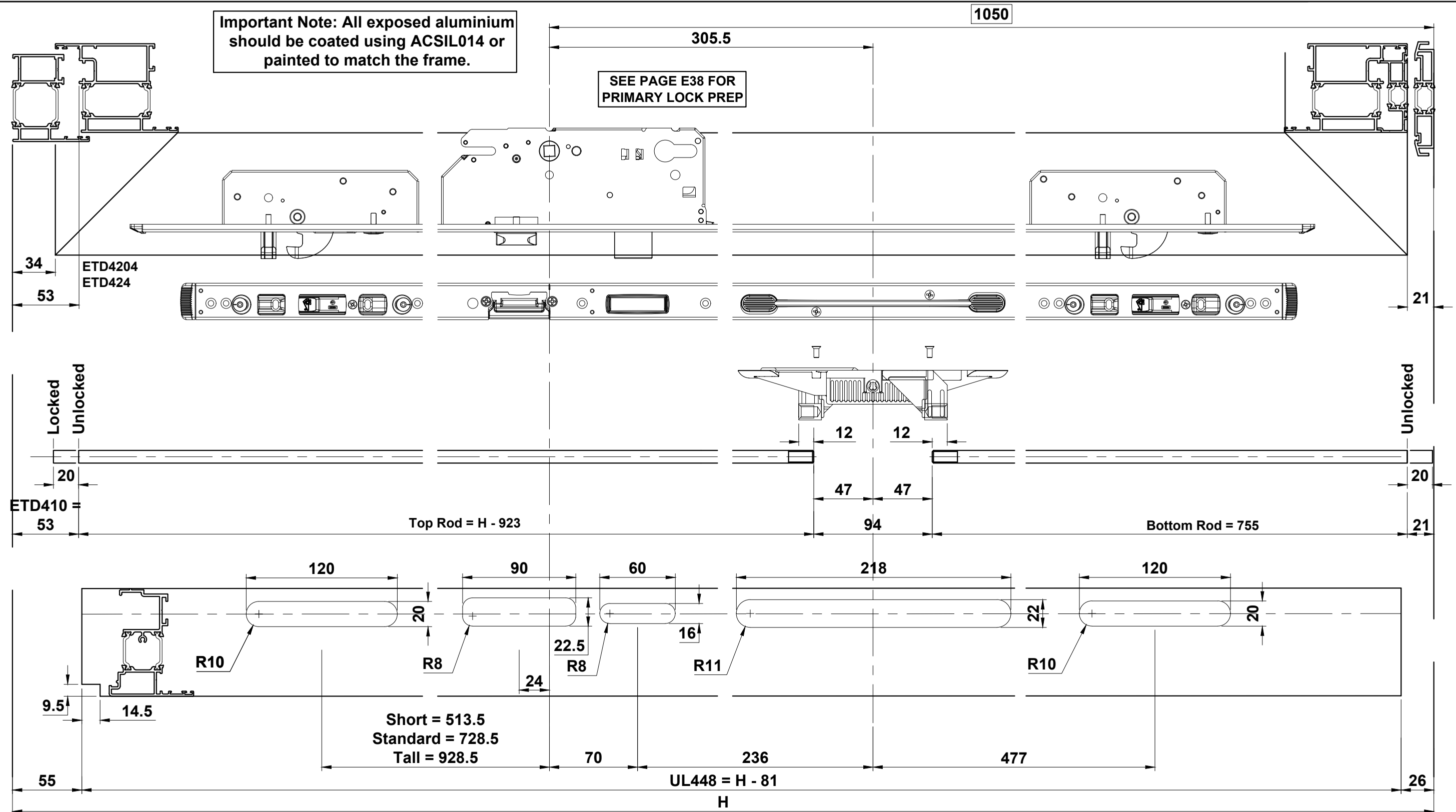


Do Not Scale From This Drawing

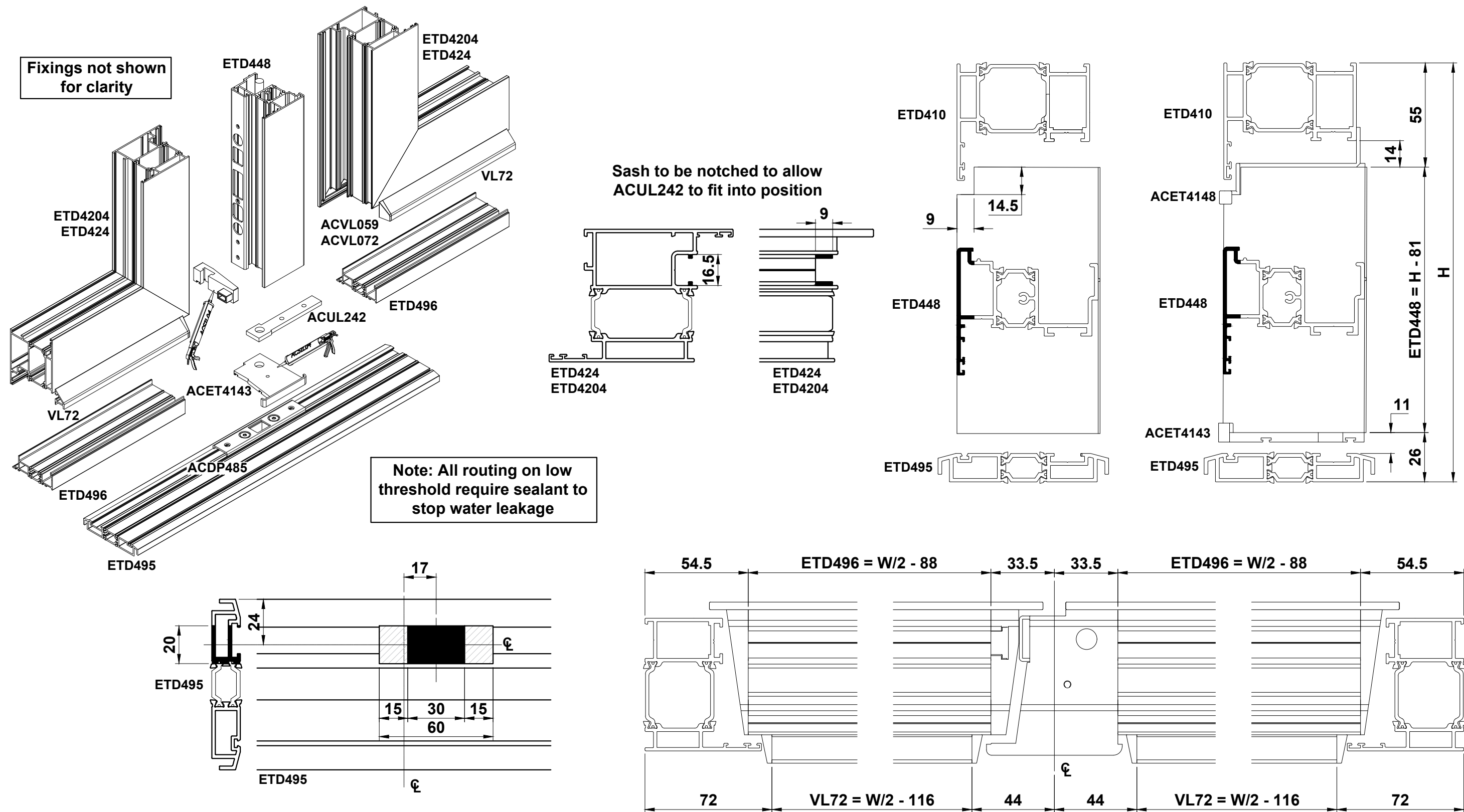
Alitherm 400 Stepped Door

CONSTRUCTION DRAWINGS - OPEN IN

Double Door Finger Bolt Lock Preparation for Low Ramp Threshold

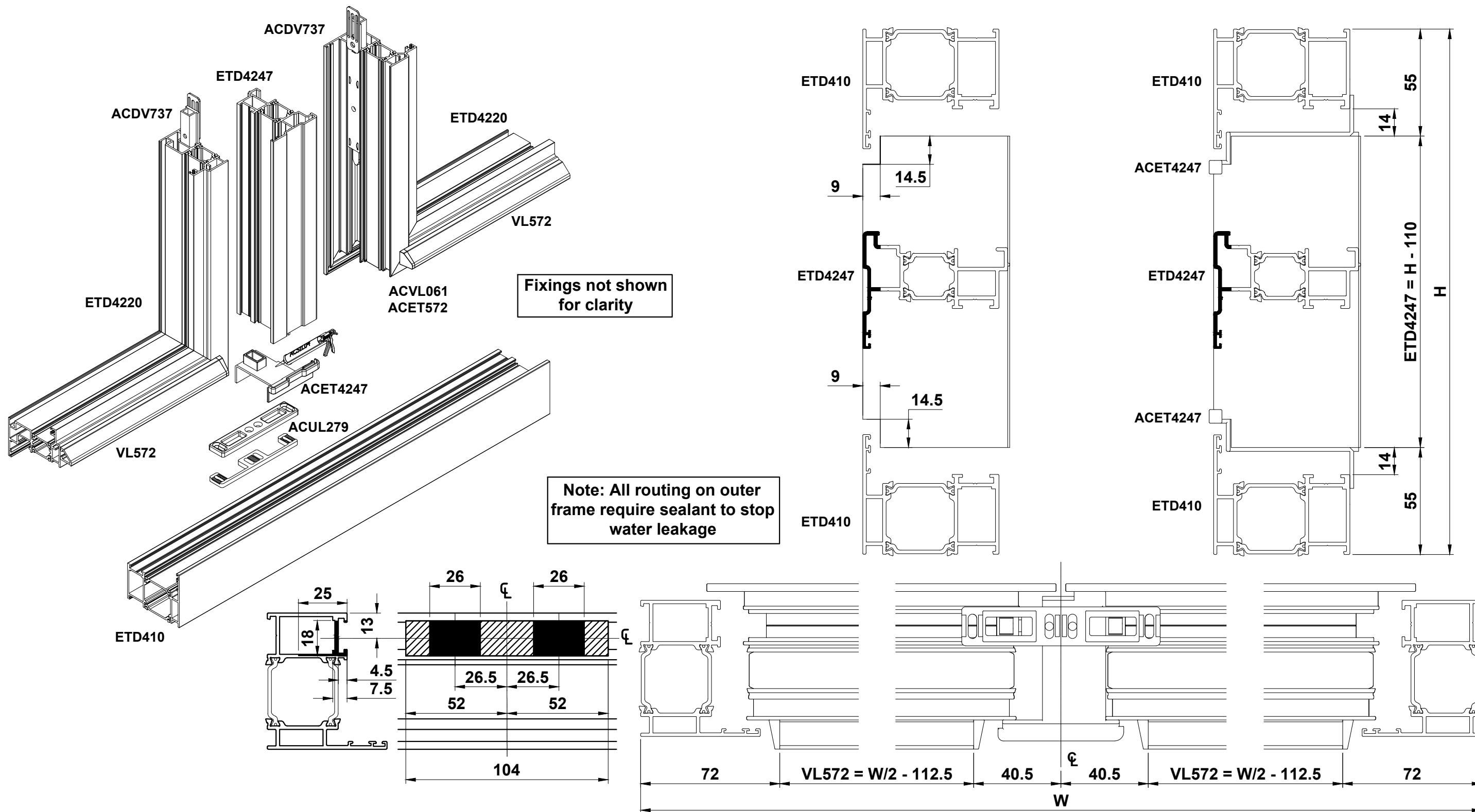


Double Door Lift Lever Meeting Stile Assembly for Low Rebate Threshold

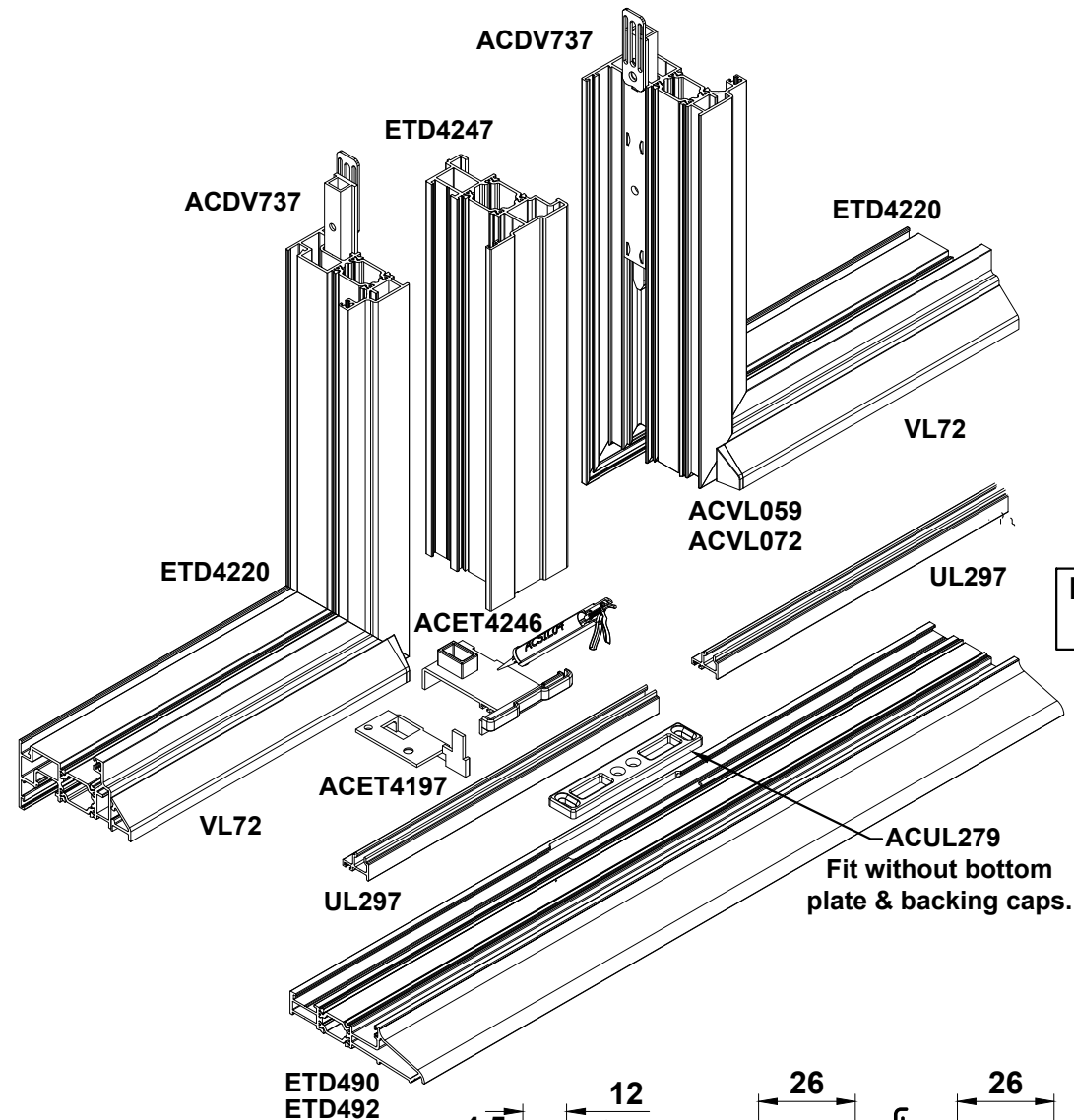


Do Not Scale From This Drawing

Heritage Double Door Lift Lever Meeting Stile Assembly for Full Frame

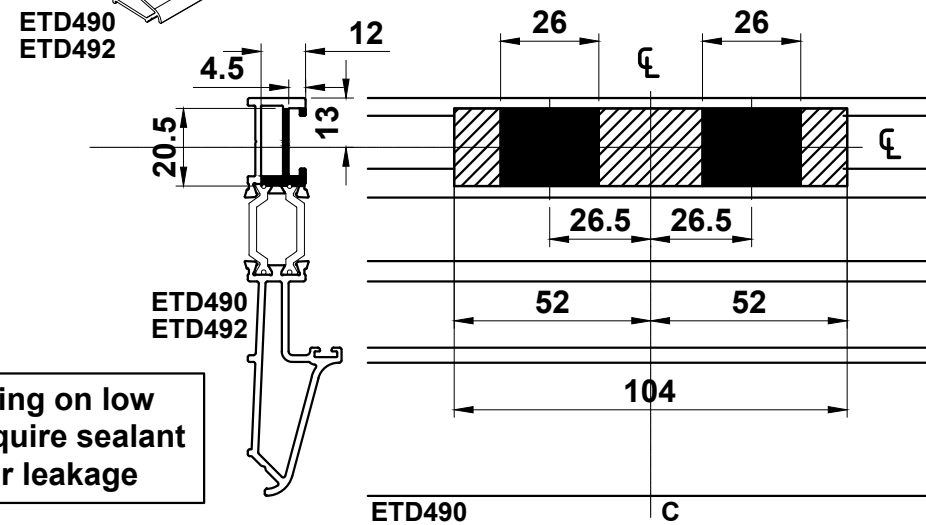


Heritage Double Door Lift Lever Meeting Stile Assembly for Low Rebate Threshold

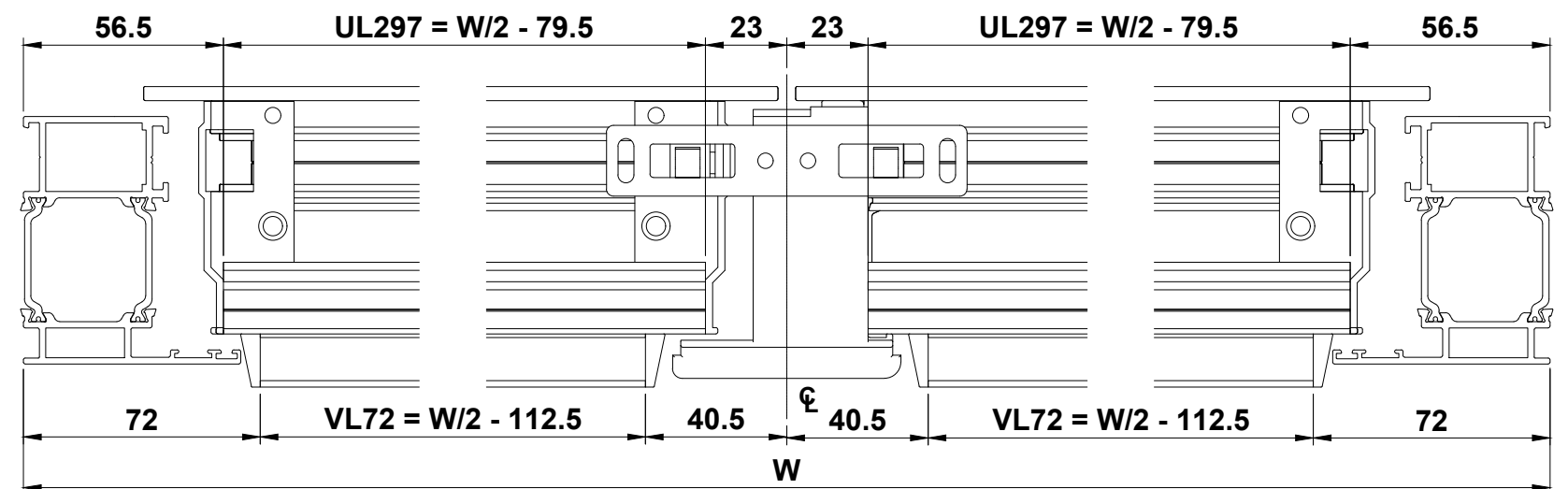
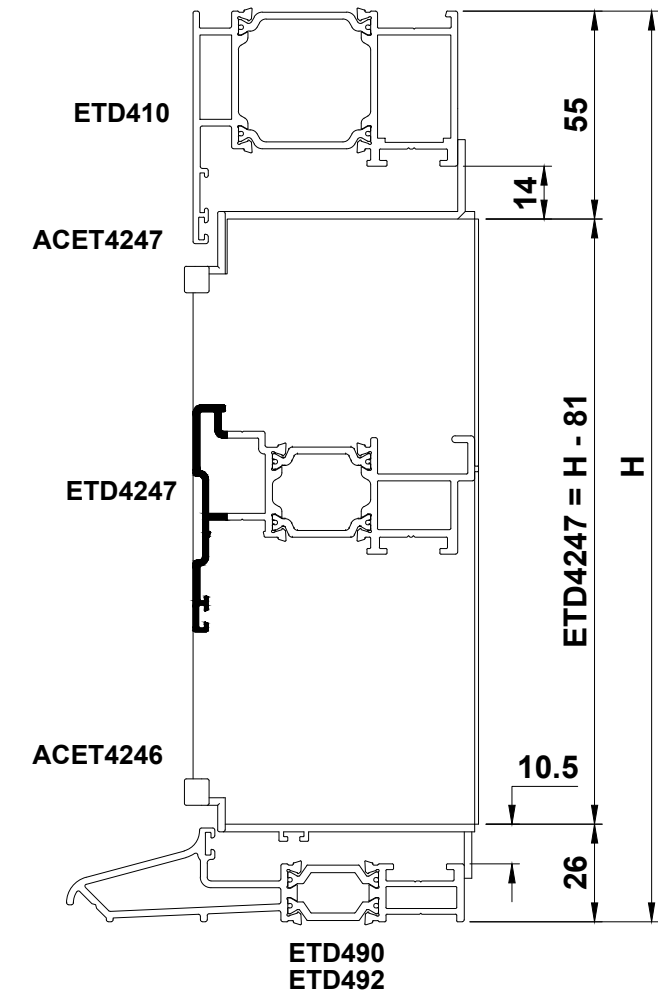
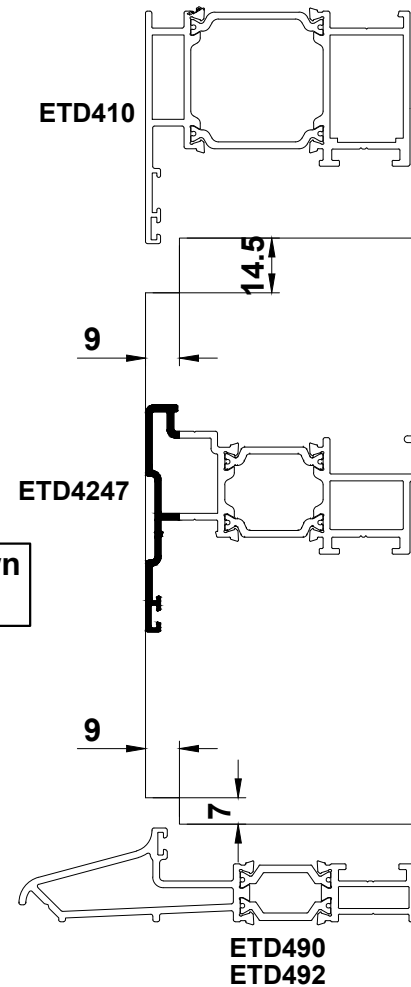


Fixings not shown
for clarity

Fit without bottom
plate & backing caps.

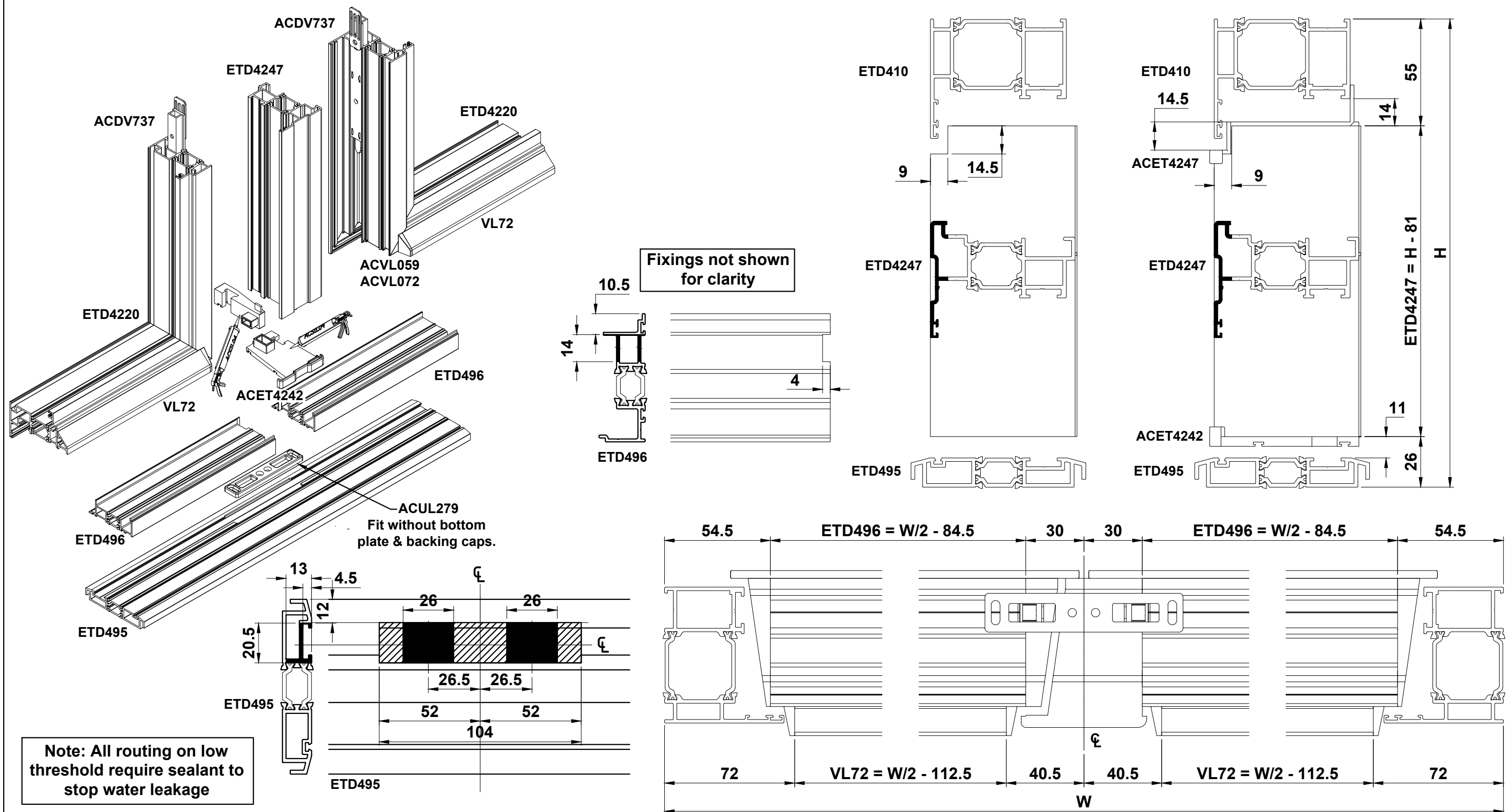


Note: All routing on low
threshold to require sealant
to stop water leakage

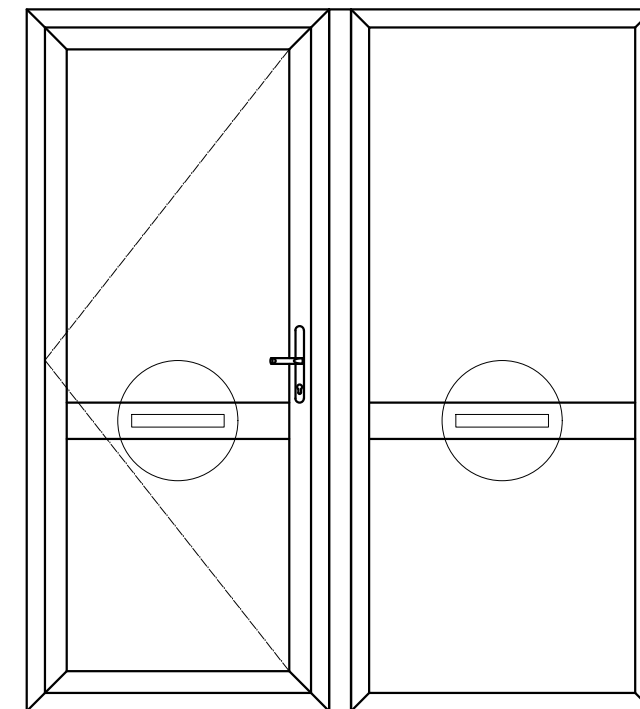
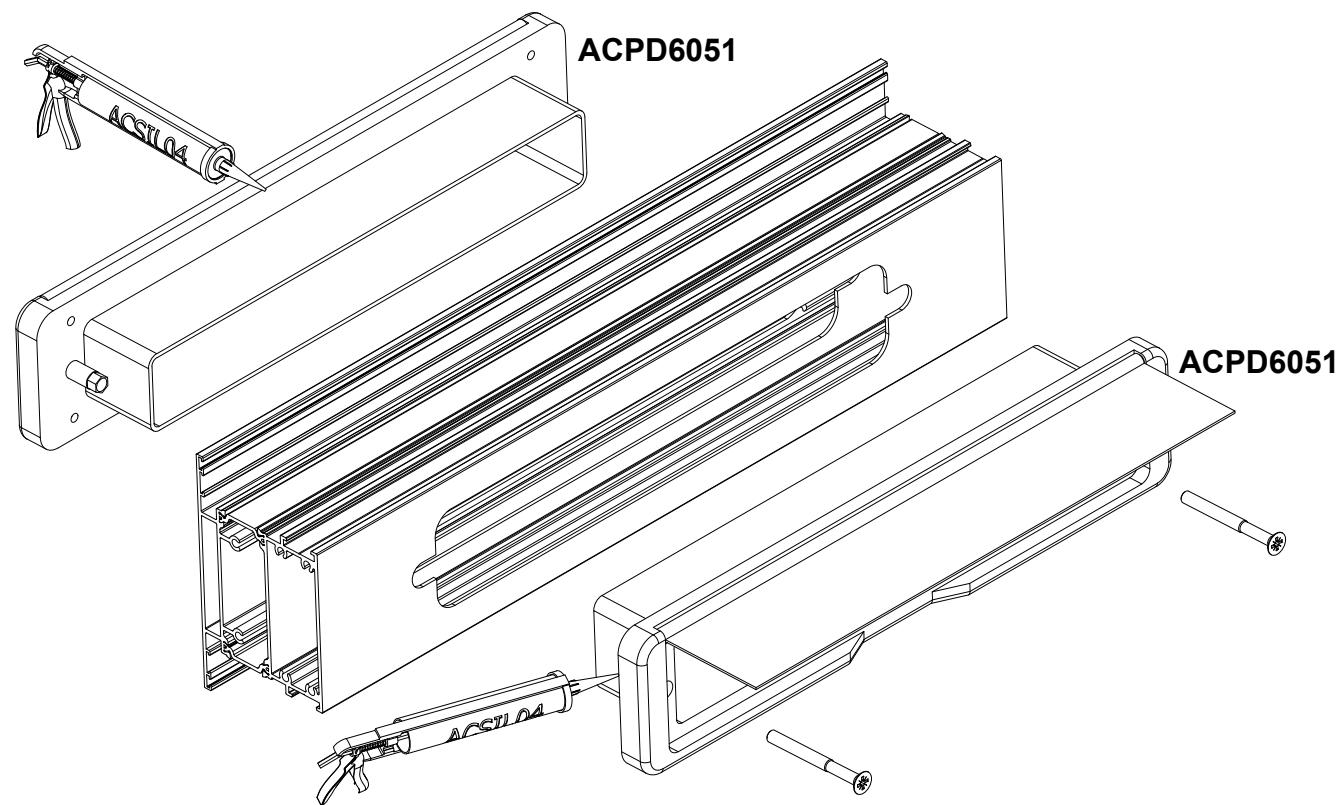
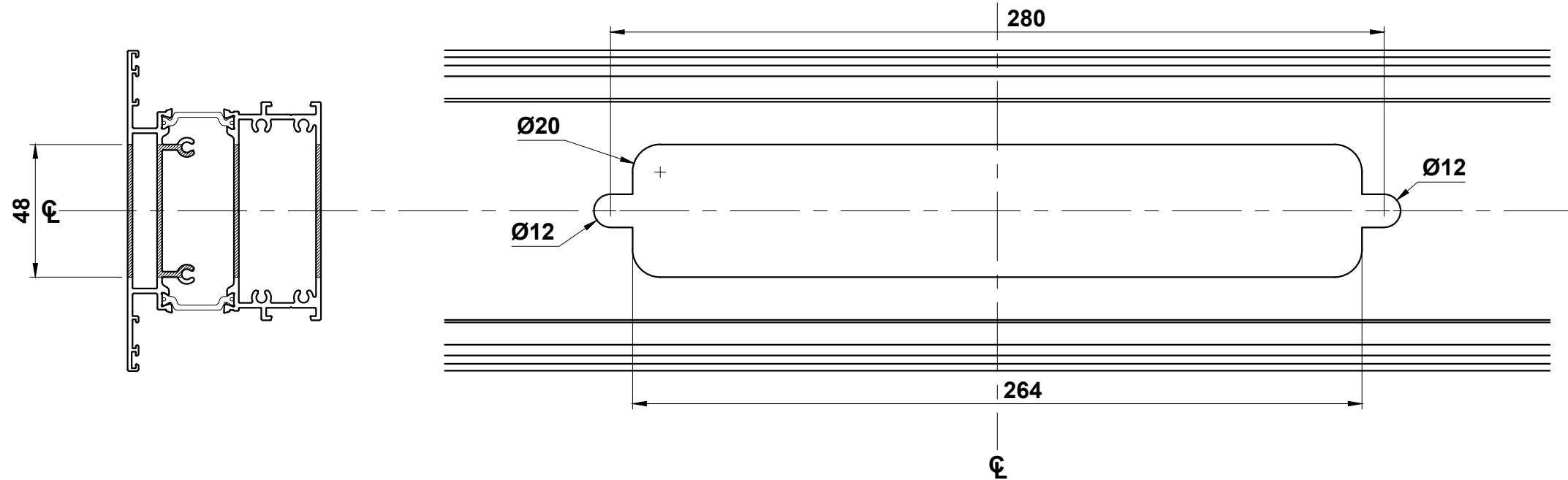


Do Not Scale From This Drawing

Heritage Double Door Lift Lever Meeting Stile Assembly for Low Ramp Threshold



Letter Plate Fitting

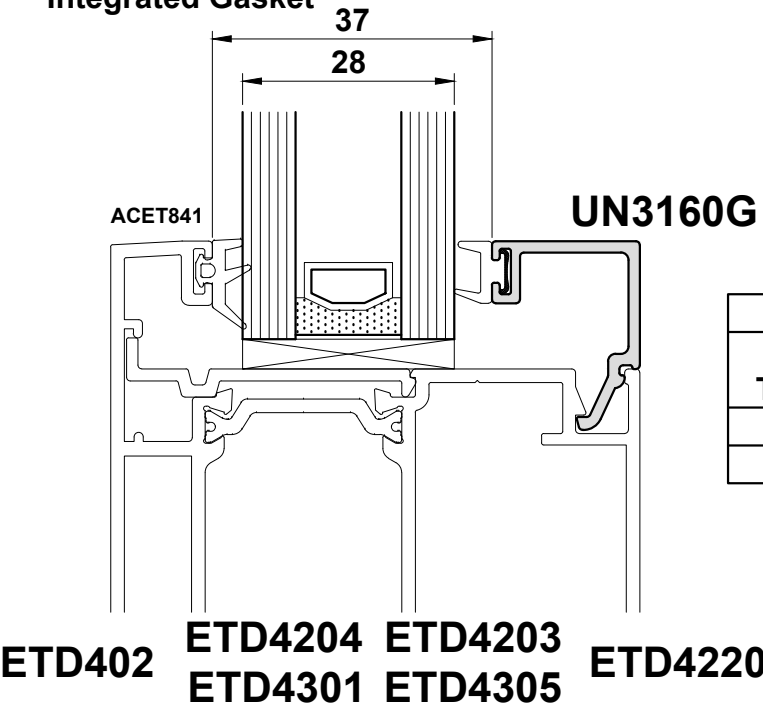


Do Not Scale From This Drawing

Glazing Chart

28mm Glazing

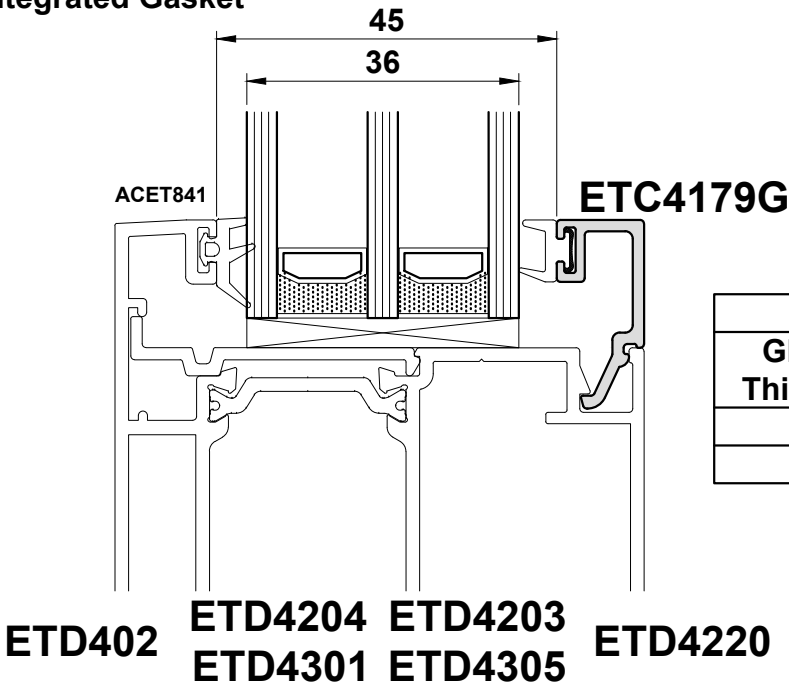
Integrated Gasket



Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
28	ACET841	-
29 (28.8)	ACET842	-

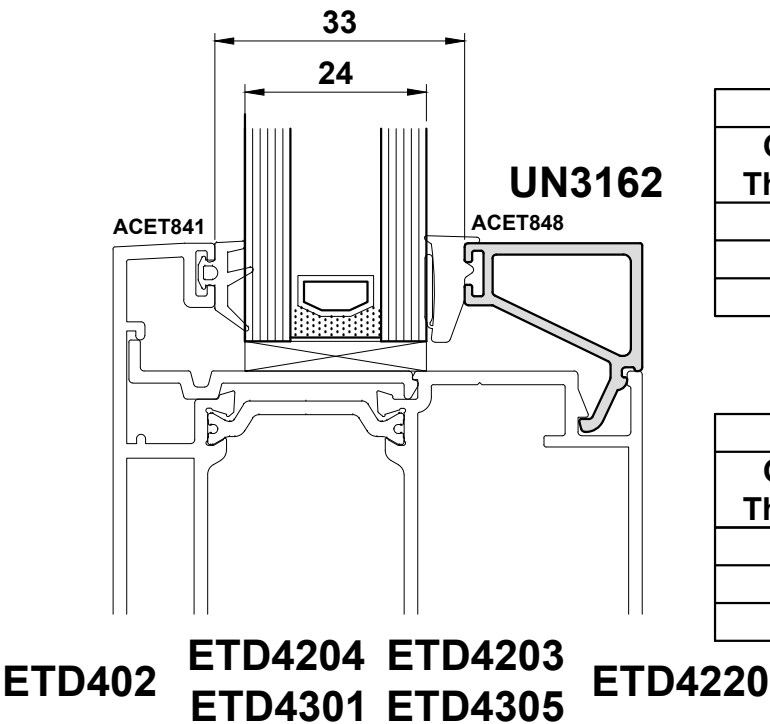
36mm Glazing

Integrated Gasket



Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
36	ACET841	-
37	ACET842	-

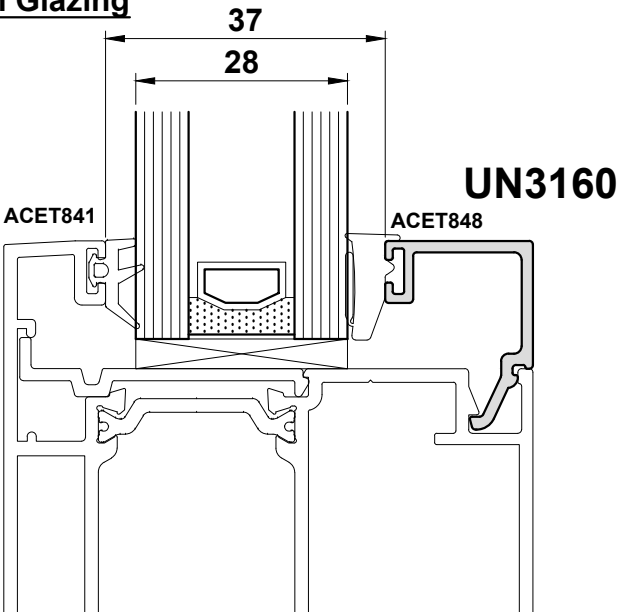
24-26mm Glazing



Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
24	ACET841	ACET848
25	ACET842	ACET848
26	ACET843	ACET848

Standard Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
24	ACVG31	ACUN036
25	ACVG231	ACUN036
26	ACVG231	ACUN036

28-30mm Glazing

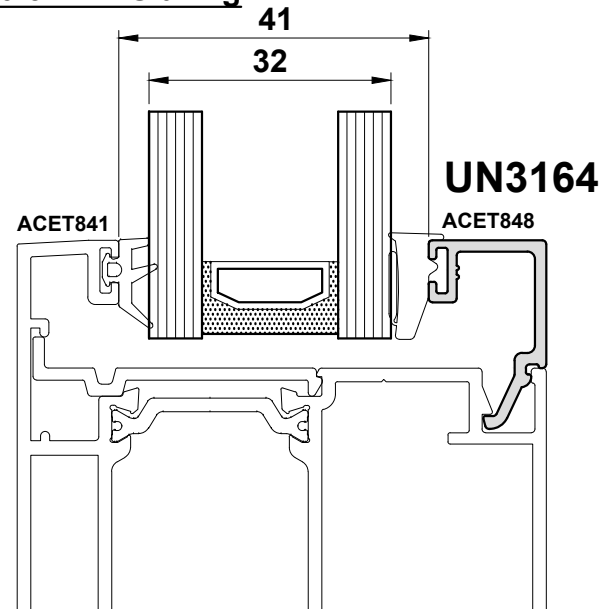


Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
28	ACET841	ACET848
29 (28.8)	ACET842	ACET848
30	ACET843	ACET848

Standard Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
28	ACVG31	ACUN036
29 (28.8)	ACVG231	ACUN036
30	ACVG231	ACUN036

Glazing Chart

30-32mm Glazing

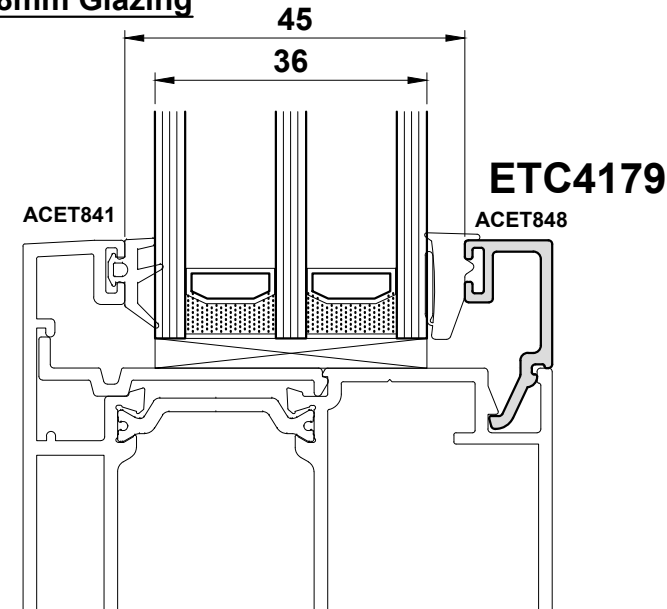


Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
30	ACET841	ACET848
31	ACET842	ACET848
32	ACET843	ACET848

Standard Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
30	ACVG31	ACUN036
31	ACVG231	ACUN036
32	ACVG231	ACUN036

ETD402 ETD4204 ETD4203 ETD4220
ETD4301 ETD4305

36-38mm Glazing

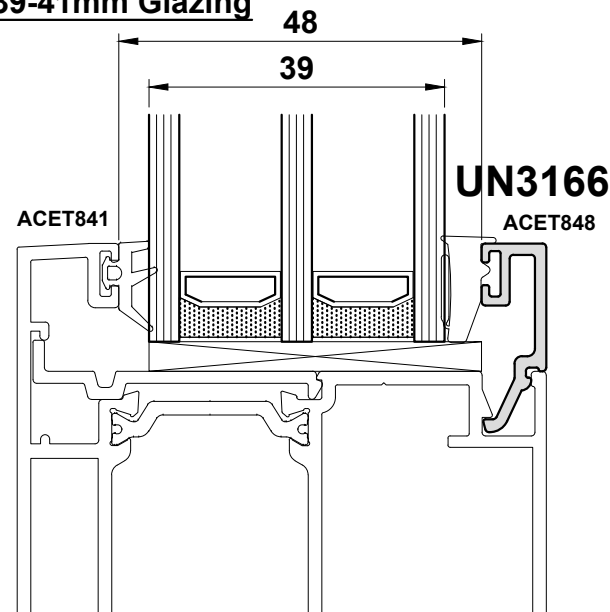


Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
36	ACET841	ACET848
37	ACET842	ACET848
38	ACET843	ACET848

Standard Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
36	ACVG31	ACUN036
37	ACVG231	ACUN036
38	ACVG231	ACUN036

ETD402 ETD4204 ETD4203 ETD4220
ETD4301 ETD4305

39-41mm Glazing

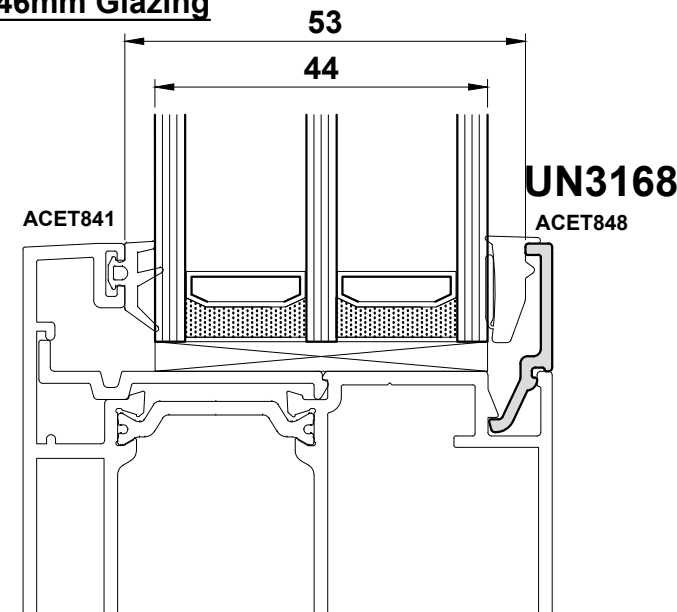


Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
39	ACET841	ACET848
40	ACET842	ACET848
41	ACET843	ACET848

Standard Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
39	ACVG31	ACUN036
40	ACVG231	ACUN036
41	ACVG231	ACUN036

ETD402 ETD4204 ETD4203 ETD4220
ETD4301 ETD4305

44-46mm Glazing



Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
44	ACET841	ACET848
45	ACET842	ACET848
46	ACET843	ACET848

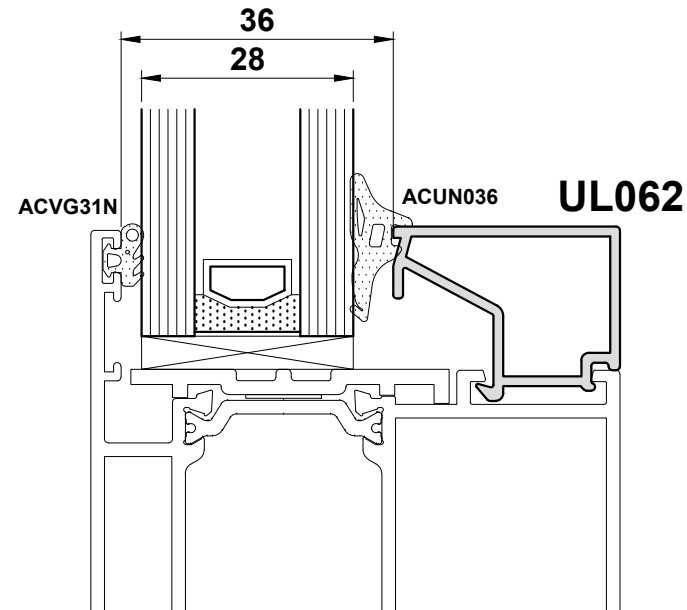
Standard Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
44	ACVG31	ACUN036
45	ACVG231	ACUN036
46	ACVG231	ACUN036

ETD402 ETD4204 ETD4203 ETD4220
ETD4301 ETD4305

Do Not Scale From This Drawing

Glazing Chart

27-29mm Glazing

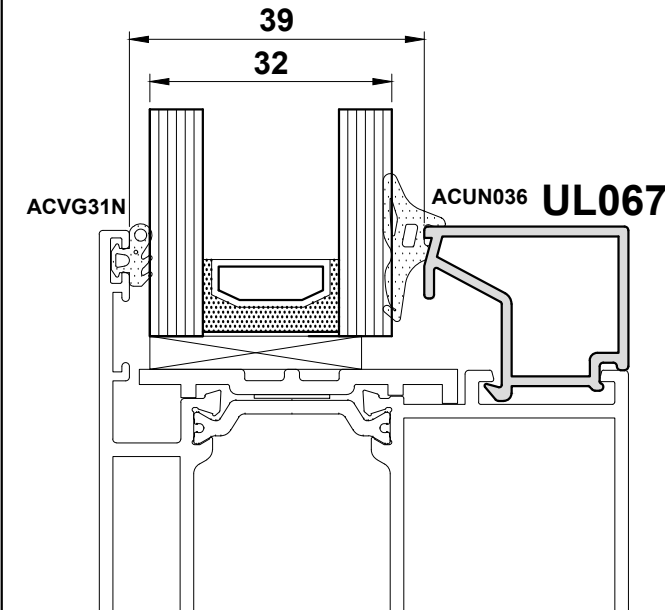


Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
27	ACET841	ACET848
28	ACET842	ACET848
29 (28.8)	ACET843	ACET848

Standard Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
27	ACVG31N	ACUN036
28	ACVG231	ACUN036
29 (28.8)	ACVG231	ACUN036

ETD402 ETD4204 ETD4203 ETD4301 ETD4305 ETD4220

30-32mm Glazing

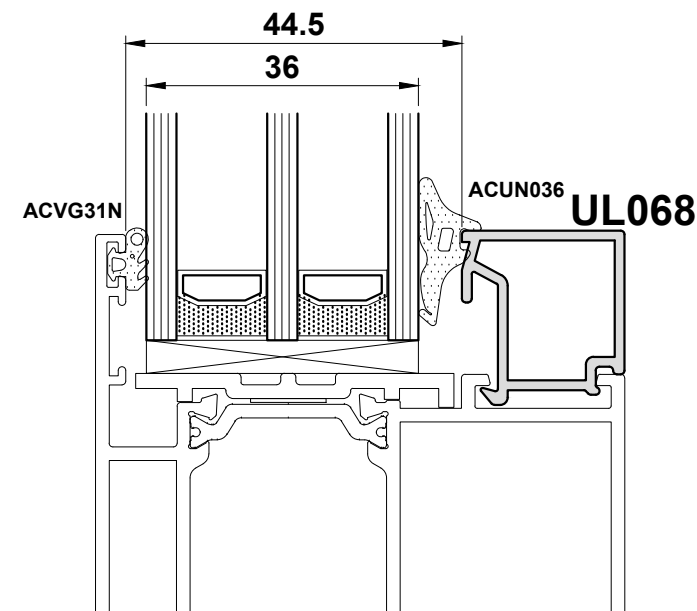


Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
30	ACET841	ACET848
31	ACET842	ACET848
32	ACET843	ACET848

Standard Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
30	ACVG31N	ACUN036
31	ACVG231	ACUN036
32	ACVG231	ACUN036

ETD402 ETD4204 ETD4203 ETD4301 ETD4305 ETD4220

36mm Glazing

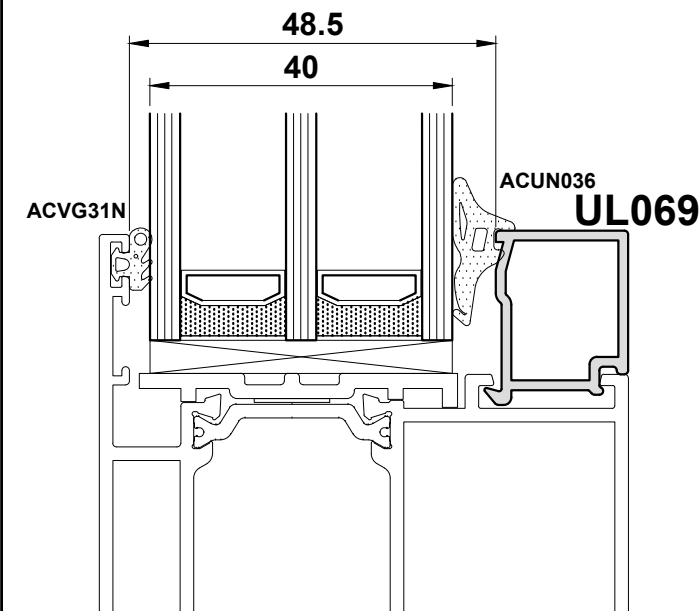


Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
35	ACET841	ACET848
36	ACET842	ACET848
37	ACET843	ACET848

Standard Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
35	ACVG31N	ACUN036
36	ACVG231	ACUN036
37	ACVG231	ACUN036

ETD402 ETD4204 ETD4203 ETD4301 ETD4305 ETD4220

42mm Glazing



Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
39	ACET841	ACET848
40	ACET842	ACET848
41	ACET843	ACET848
42	ACET843	ACET848

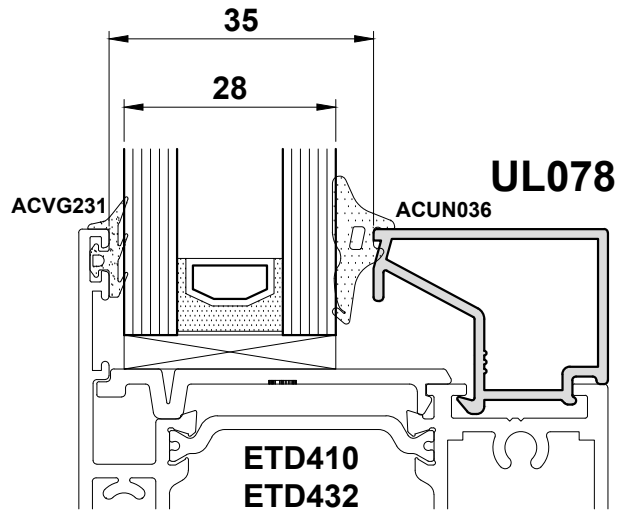
Standard Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
39	ACVG31N	ACUN036
40	ACVG231	ACUN036
41	ACVG231	ACUN036
42	ACVG231	ACUN033

ETD402 ETD4204 ETD4203 ETD4301 ETD4305 ETD4220

Do Not Scale From This Drawing

Glazing Chart

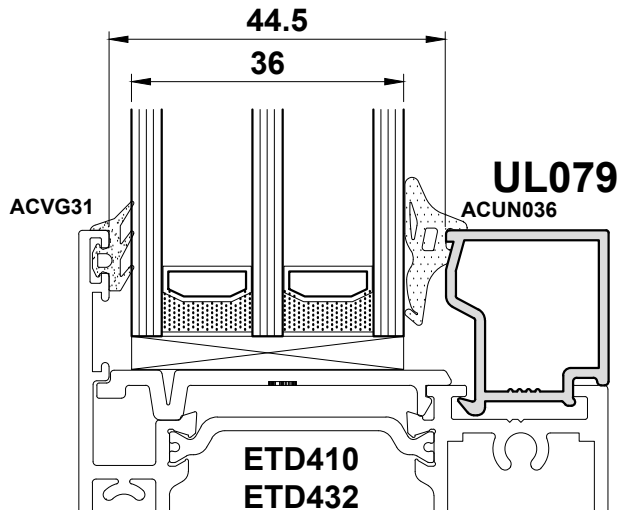
27-29mm Glazing



Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
27	ACET842	ACET848
28	ACET843	ACET848
29 (28.8)	ACET843	ACW20038

Standard Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
27	ACVG231	ACUN036
28	ACVG231	ACUN036
29 (28.8)	ACVG231	ACUN033

36-38mm Glazing

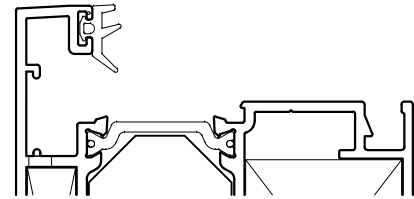


Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
36	ACET841	ACET848
37	ACET842	ACET848
38	ACET843	ACET848

Standard Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
36	ACVG31	ACUN036
37	ACVG231	ACUN036
38	ACVG231	ACUN036

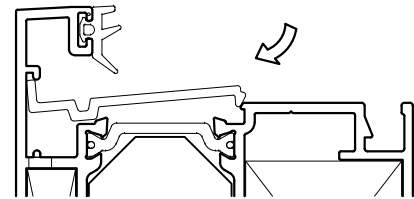
Do Not Scale From This Drawing

Glazing Details



Step One. Install Captive Gasket

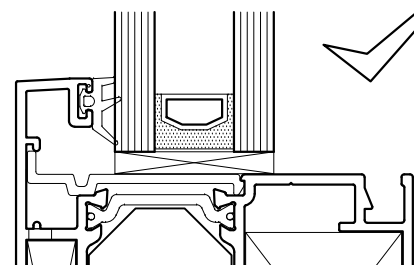
- Follow Gasket Configuration from
pages E51 - E54



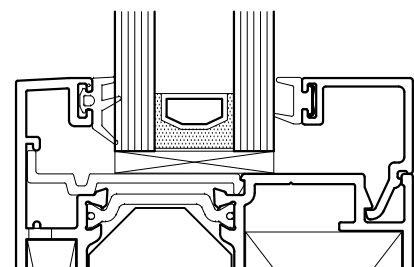
Step Two. Install Bridge Packer

- Follow Packer Placement diagrams

Step Three. Install Support Packer

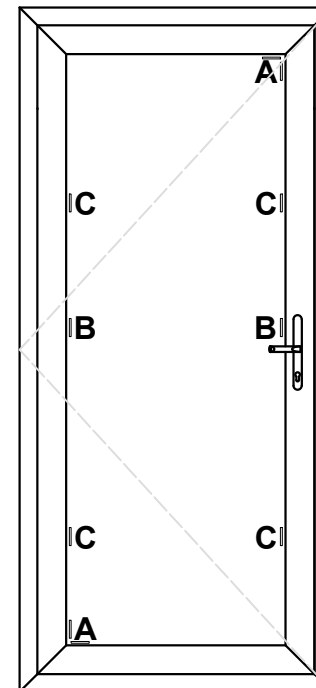
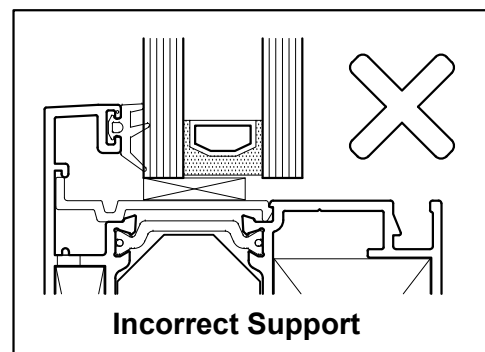
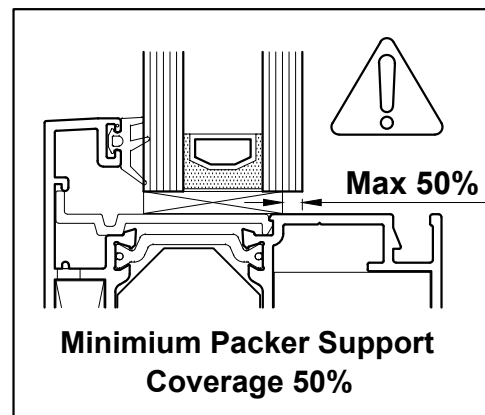


Ensure the packer supports
both panes of glass



Step Four. Install Glazing Beads

- Guidelines on Page E56



Door Packer Placement

Standard

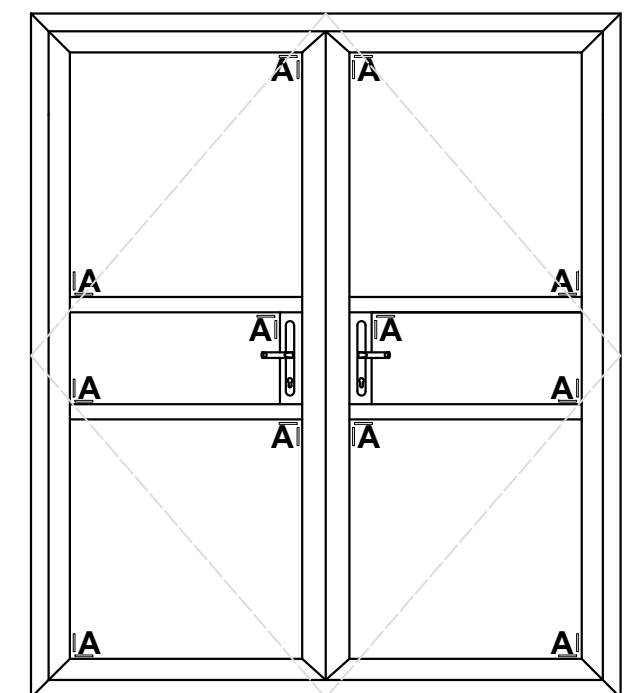
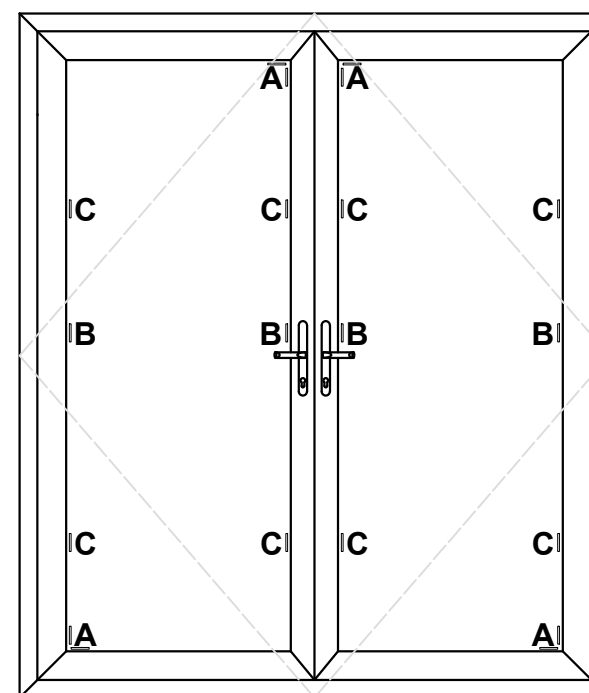
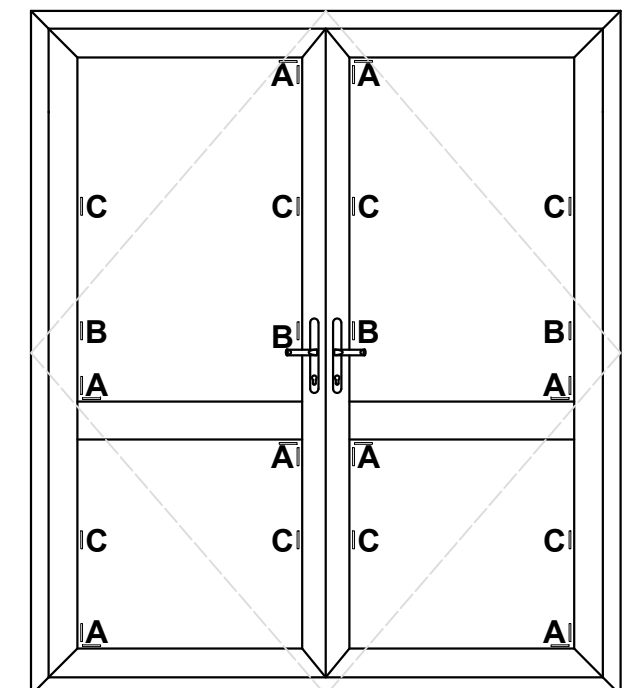
A Toe & Heel Packing Points

PAS24

B Latch Packing Points

C Locking Packing Points

Note:- When packing around the
locking/latch points. Pack adjacent
on the hinge side.

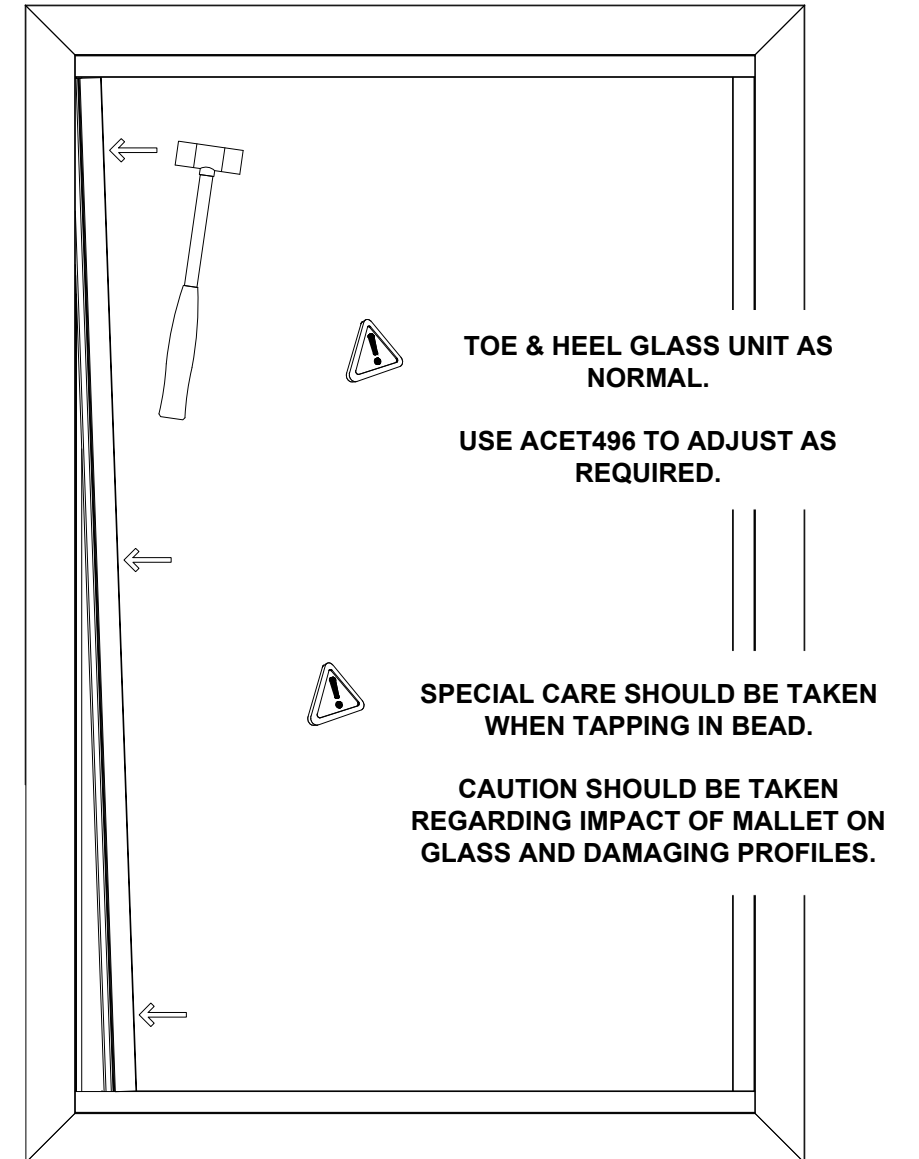
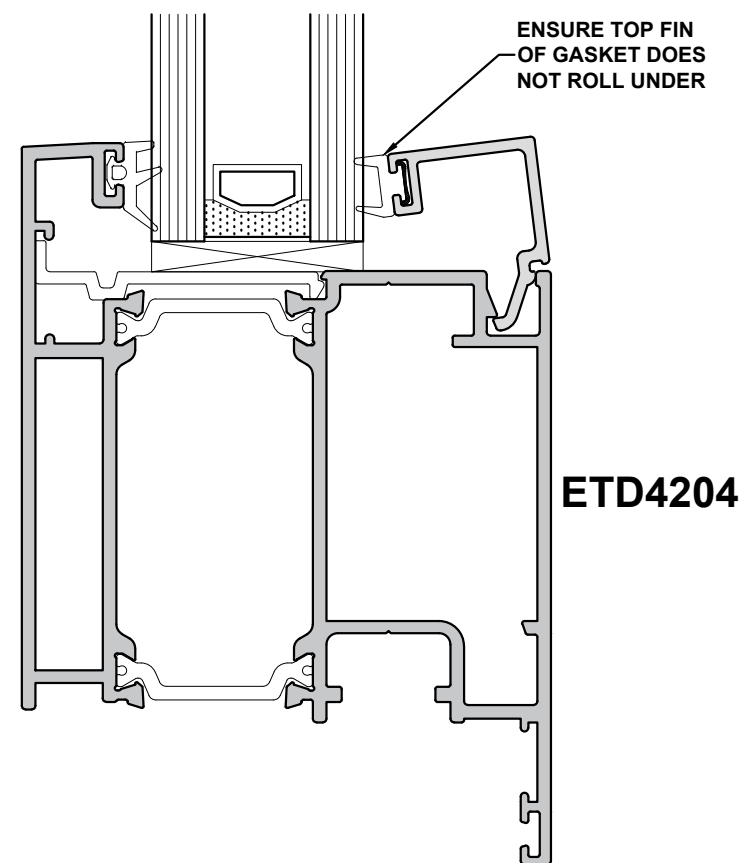
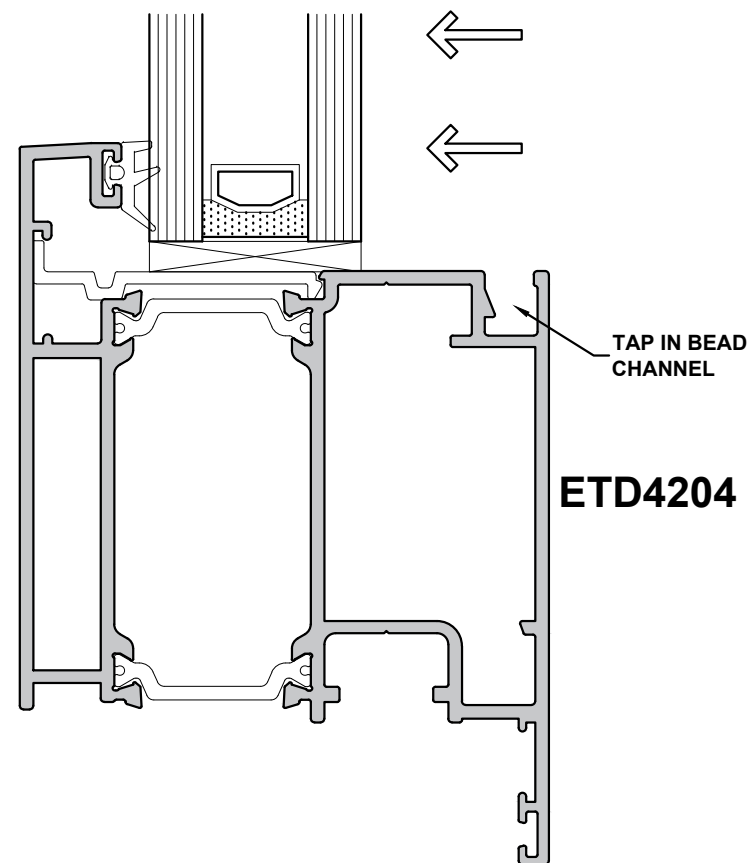
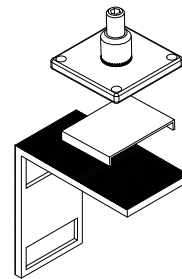


Quick-Glaze Bead Installation

QUICK-GLAZE BEAD INSTALLATION

1. INSTALL GLASS UNIT, ENSURING IT HAS BEEN PUSHED FORWARD TO ENGAGE COMPRESSION OF E GASKET.
2. BEGINNING WITH HORIZONTAL BEADS, LOCATE BEAD IN CLIP CHANNEL OF SASH AS SHOWN. INTEGRATED GASKET MAY REST AGAINST GLASS UNIT.
3. APPLY FIRM PRESSURE TO THE BEAD TO HOLD IN POSITION. THIS MAY CAUSE THE BEAD TO FULLY LOCK INTO POSITION.
4. USING A NYLON MALLET, TAP BEAD INTO CHANNEL WORKING FROM ONE END TO THE OTHER. PLEASE TAKE CARE AT THIS STAGE TO AVOID DAMAGE TO BOTH THE GLAZING UNIT AND THE BEAD.
5. REPEAT STEPS 2 - 4 TO INSTALL VERTICAL BEADS.

WE STRONGLY RECOMMEND INSTALLING ACET496 GLASS ADJUSTERS WHEN USING QUICK-GLAZE BEADS. THIS WILL REMOVE THE NEED TO REMOVE BEADS IN ORDER TO ADJUST GLASS POSITION.



Do Not Scale From This Drawing

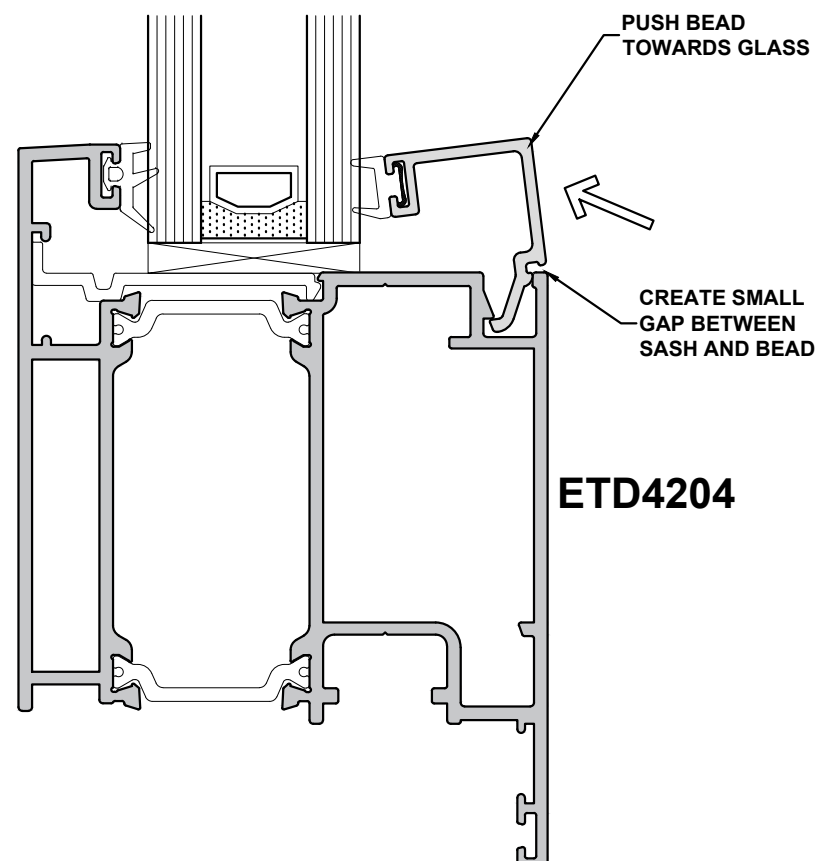
Quick-Glaze Bead Removal

KEEP INTEGRATED GASKET

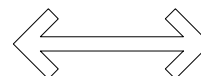
QUICK-GLAZE BEAD REMOVAL

1. STARTING ON VERTICAL BEADS, APPLY PRESSURE TO BEAD IN DIRECTION SHOWN IN ORDER TO CREATE SMALL GAP BETWEEN SASH AND BEAD.
2. GENTLY INSERT DE-GLAZING TOOL TAKING PARTICULAR CARE AS NOT TO DAMAGE PAINT FINISH.
3. SLOWLY PRISE THE BEAD UP AND AWAY FROM THE SASH.
4. THE BEAD SHOULD NOW BE EASILY REMOVABLE FROM QUICK-GLAZE BEAD CHANNEL IN SASH

BEAD AND INTEGRATED GASKET CAN BE REUSED.



OR

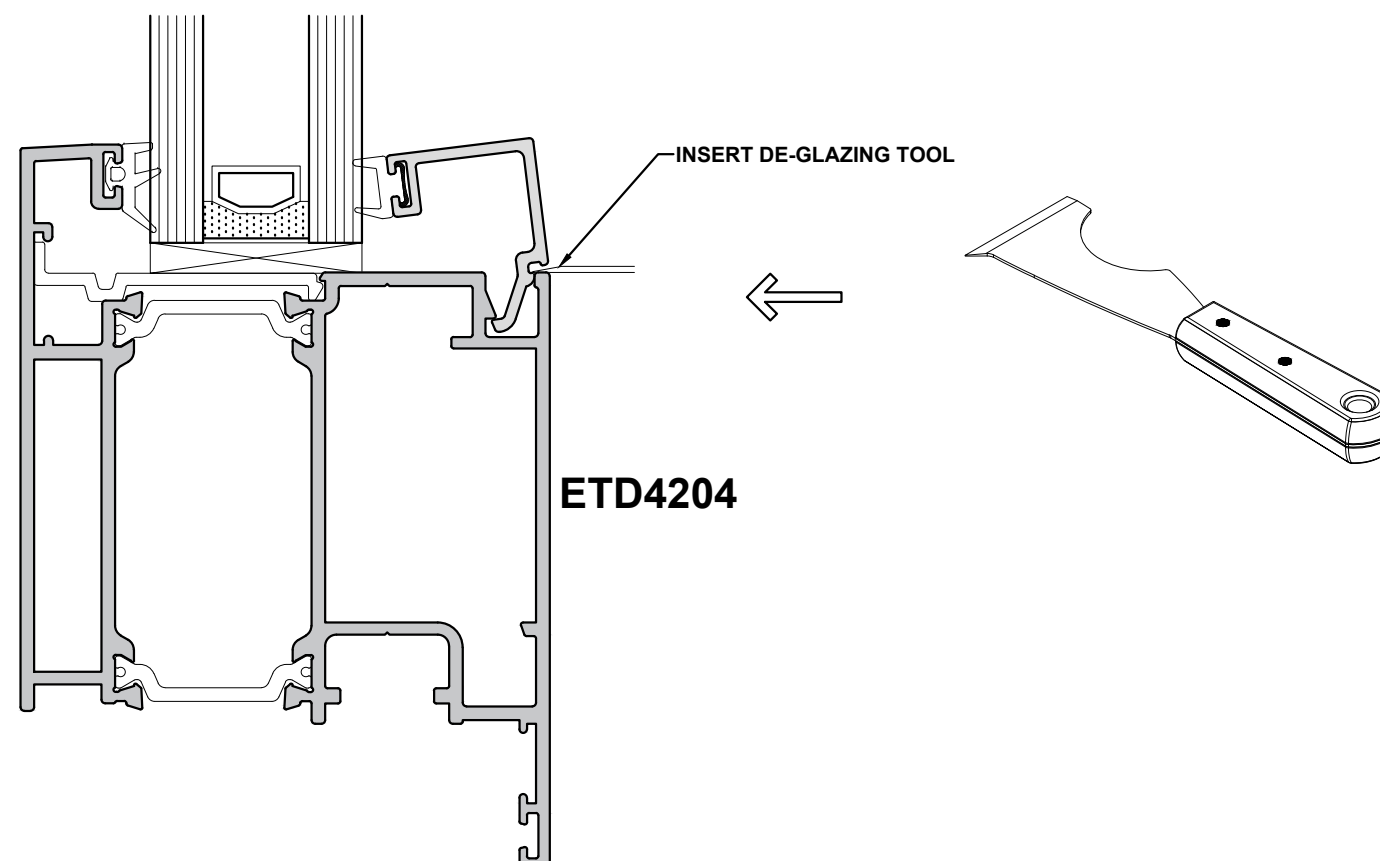


REPLACE INTEGRATED GASKET

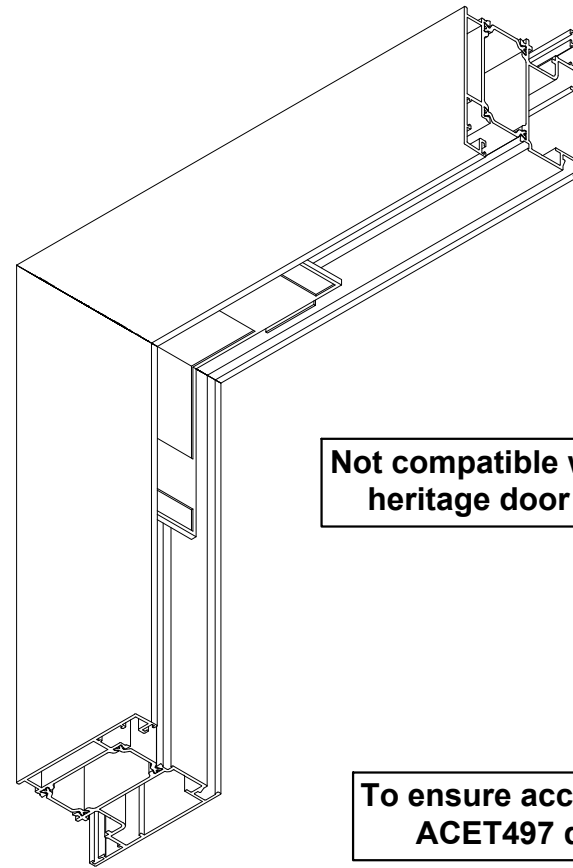
QUICK-GLAZE BEAD REMOVAL

1. USING SMALL FLAT HEADED SCREWDRIVER OR SIMILAR, WEDGE TIP BETWEEN CO EXTRUDED GASKET AND ALUMINIUM.
2. IN A LEVERING MOTION, PRISE THE GASKET AWAY FROM THE ALUMINIUM. PARTICULAR CARE SHOULD BE TAKEN NOT TO DAMAGE THE GLASS UNIT AND ALUMINIUM.
3. COMPLETE THIS AT SEVERAL LOCATIONS ALONG THE LENGTH OF THE BEAD.
4. REMOVE GASKET AND DISCARD. THIS GASKET CAN NO LONGER BE USED.
5. THE BEAD SHOULD NOW BE EASILY REMOVABLE FROM TAP IN BEAD CHANNEL IN SASH

PLEASE SEE GLAZING CHART FOR REPLACEMENT GASKET CODES.

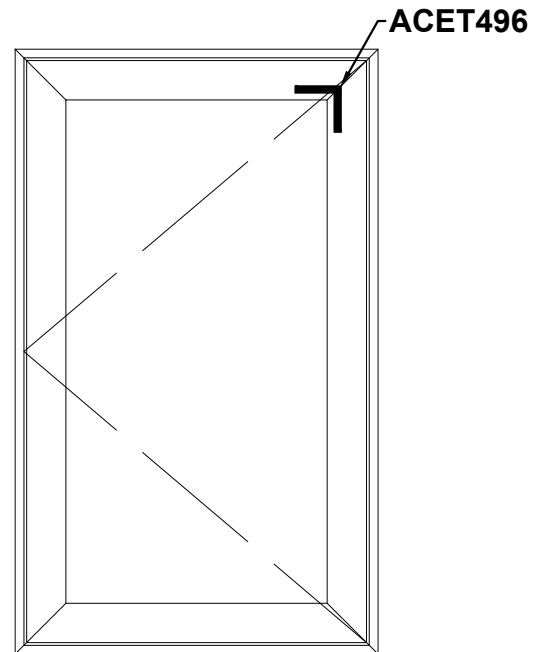


ACET496 Glass Adjuster



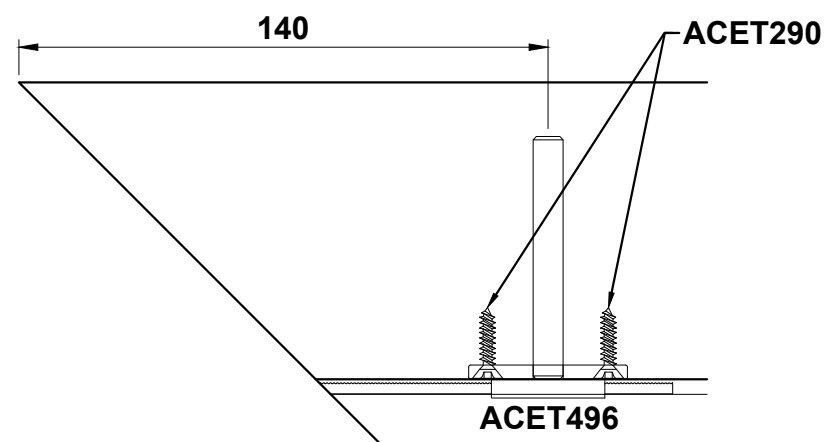
Not compatible with the heritage door sash

To ensure accuracy use ACET497 drill jig



ACET496

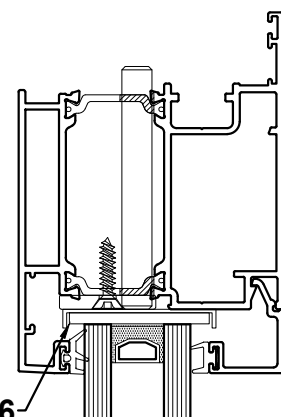
Note: Do not tighten the adjusting screw too tightly as it can lead to cracked glass.



ACET290

ACET496

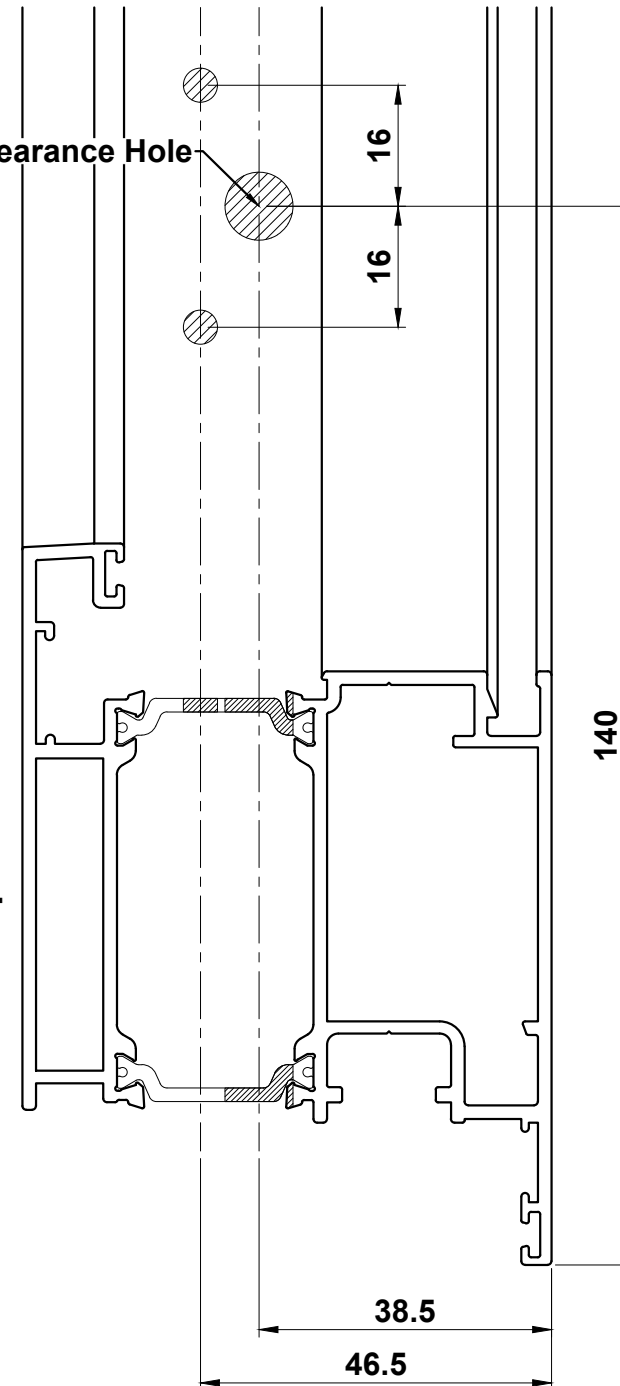
ACET496



ETD4204

ETD4204

Ø9 Clearance Hole



16

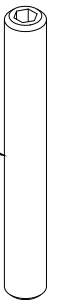
16

140

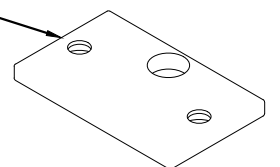
38.5

46.5

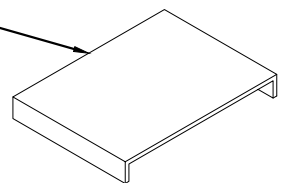
Adjusting Screw



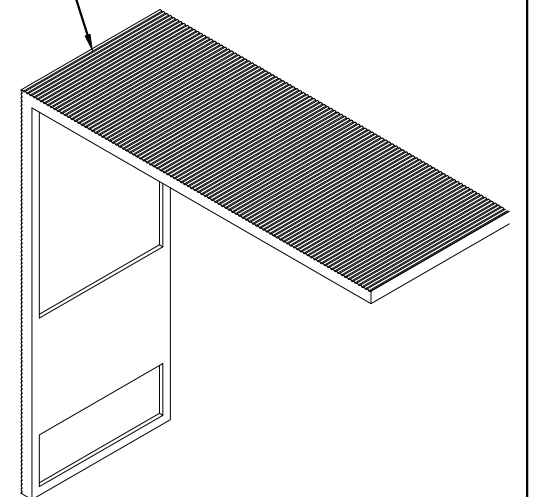
Threaded Block



Steel Cover

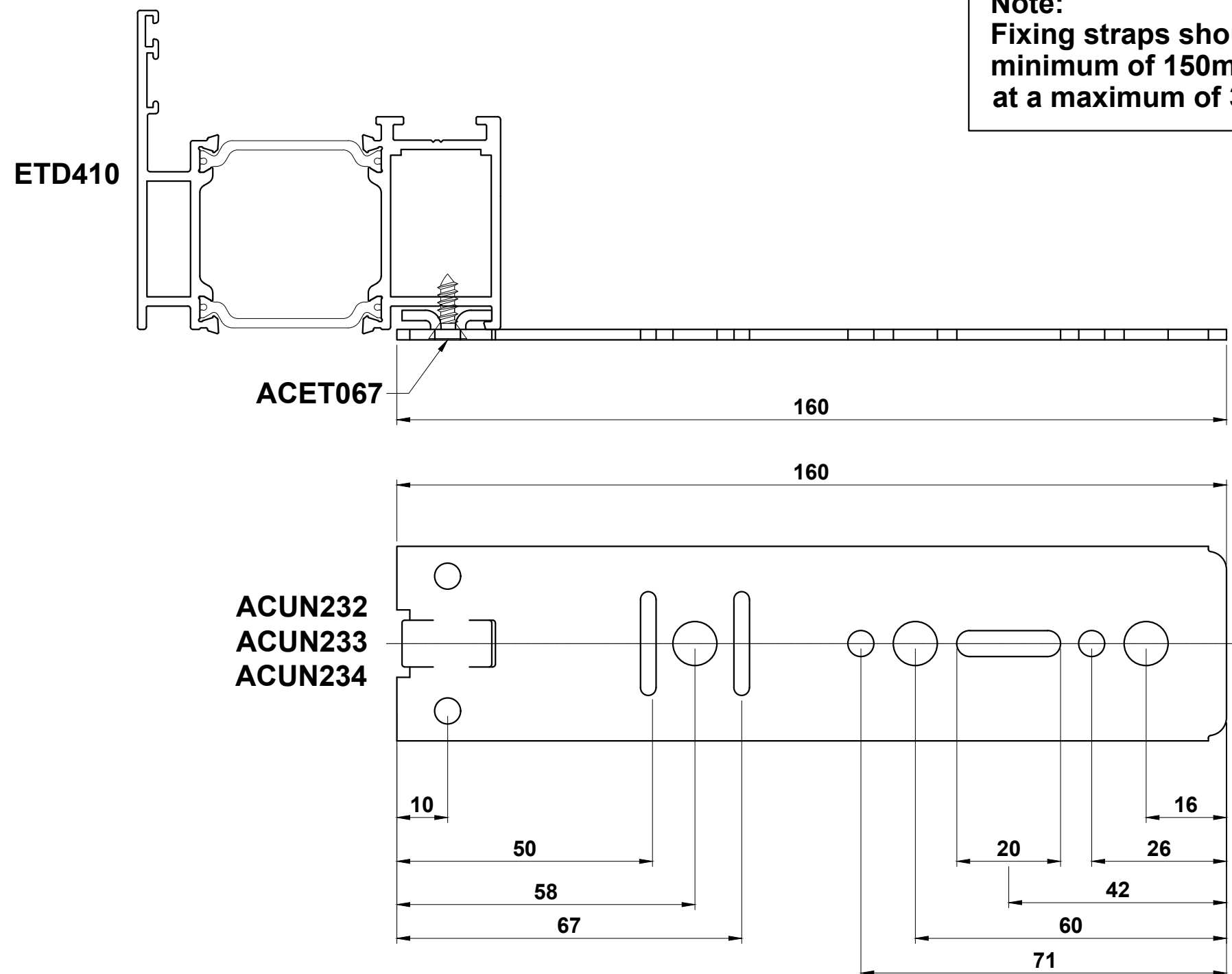


ABS Corner



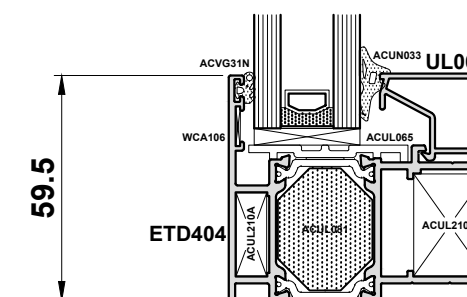
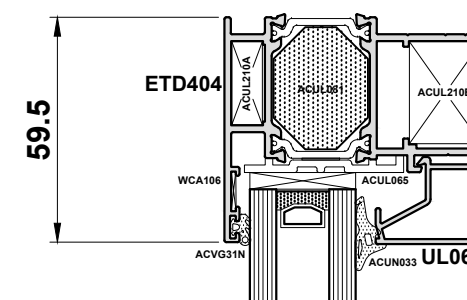
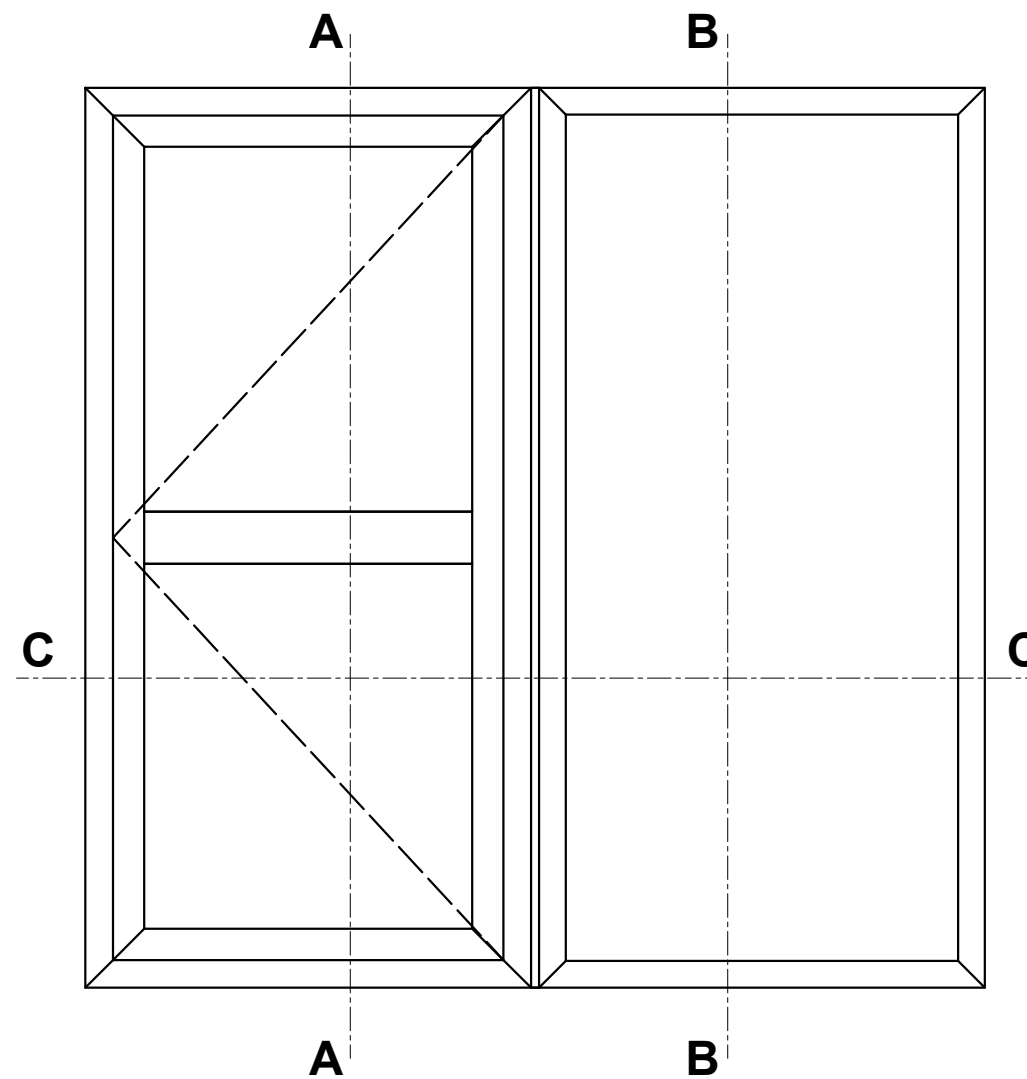
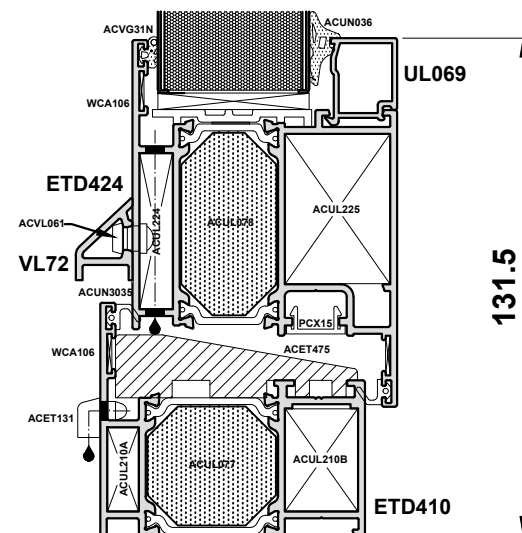
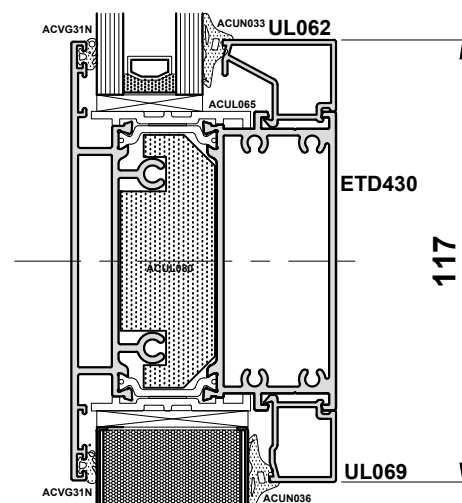
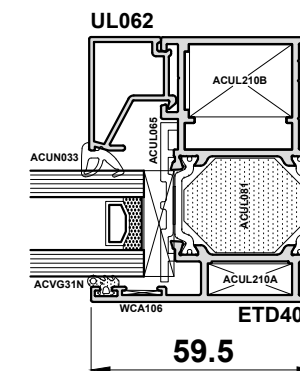
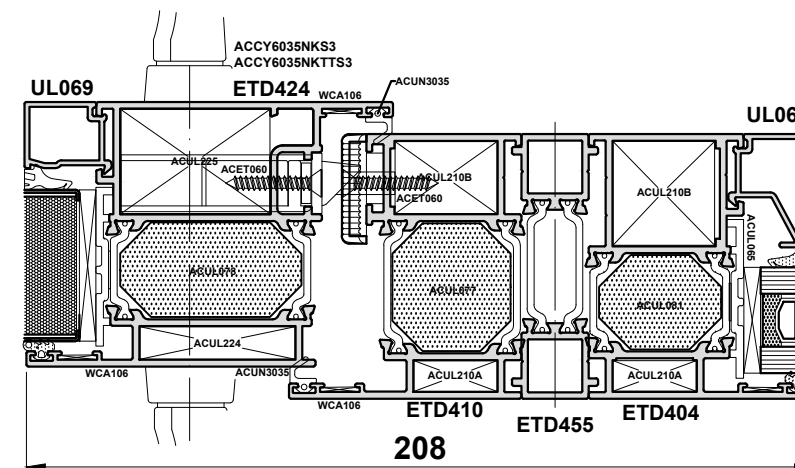
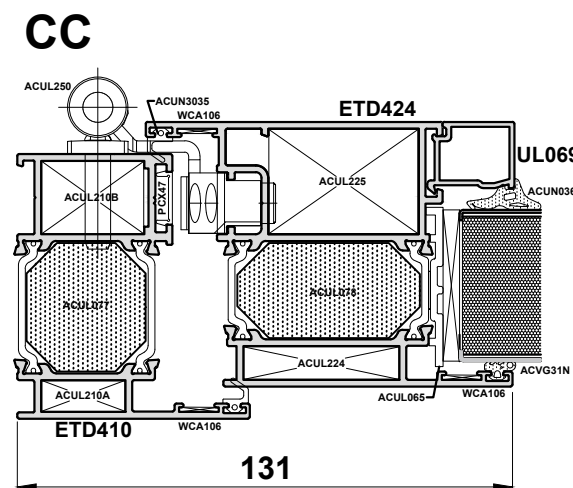
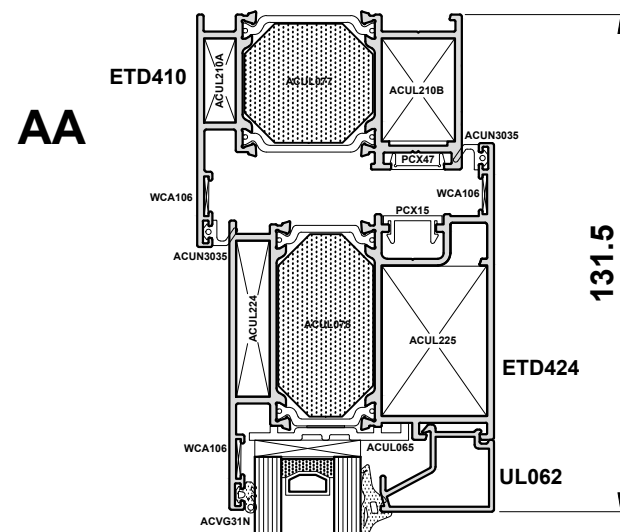
Do Not Scale From This Drawing

Fixing Strap Detail



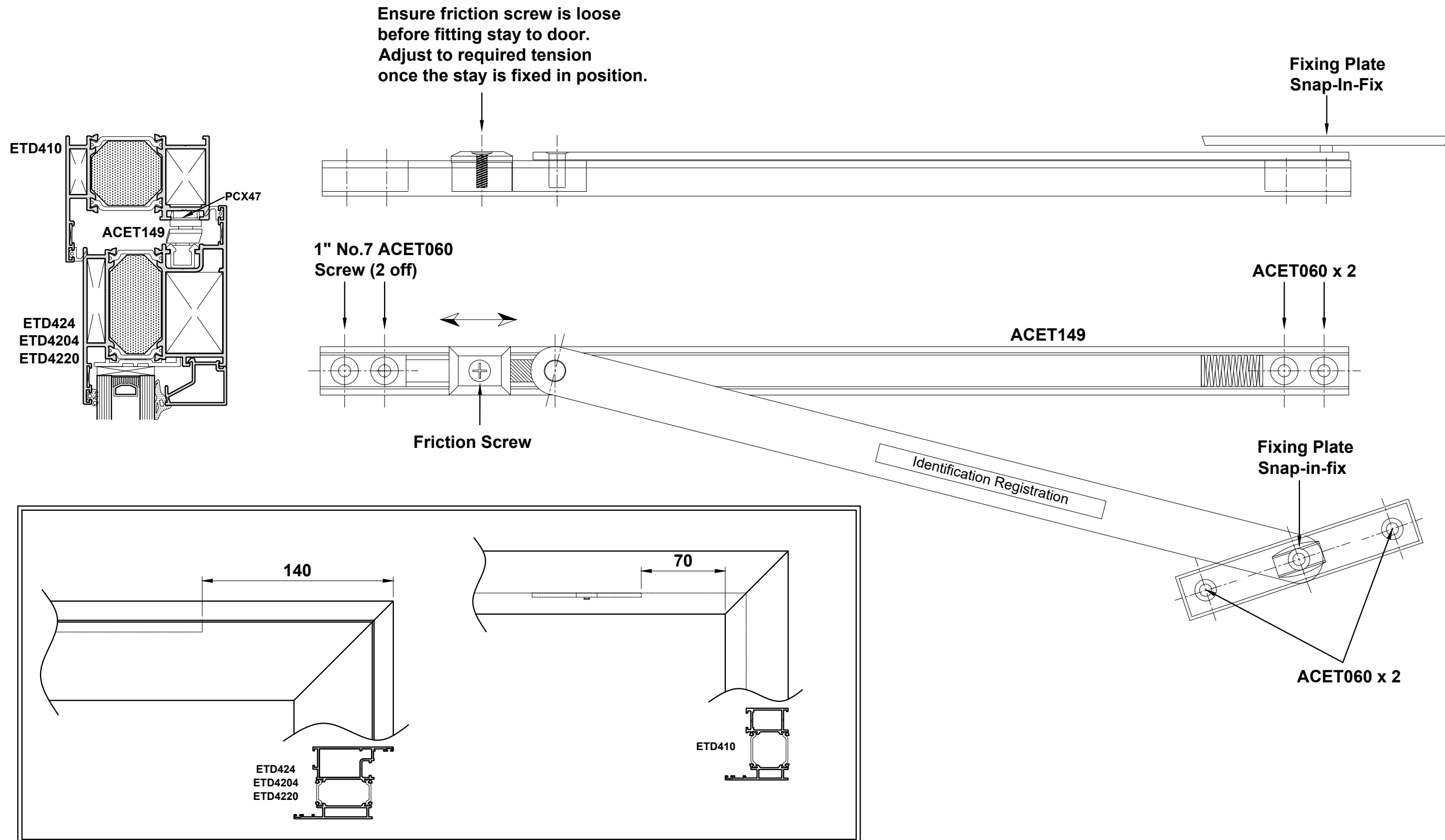
Do Not Scale From This Drawing

Example Layout

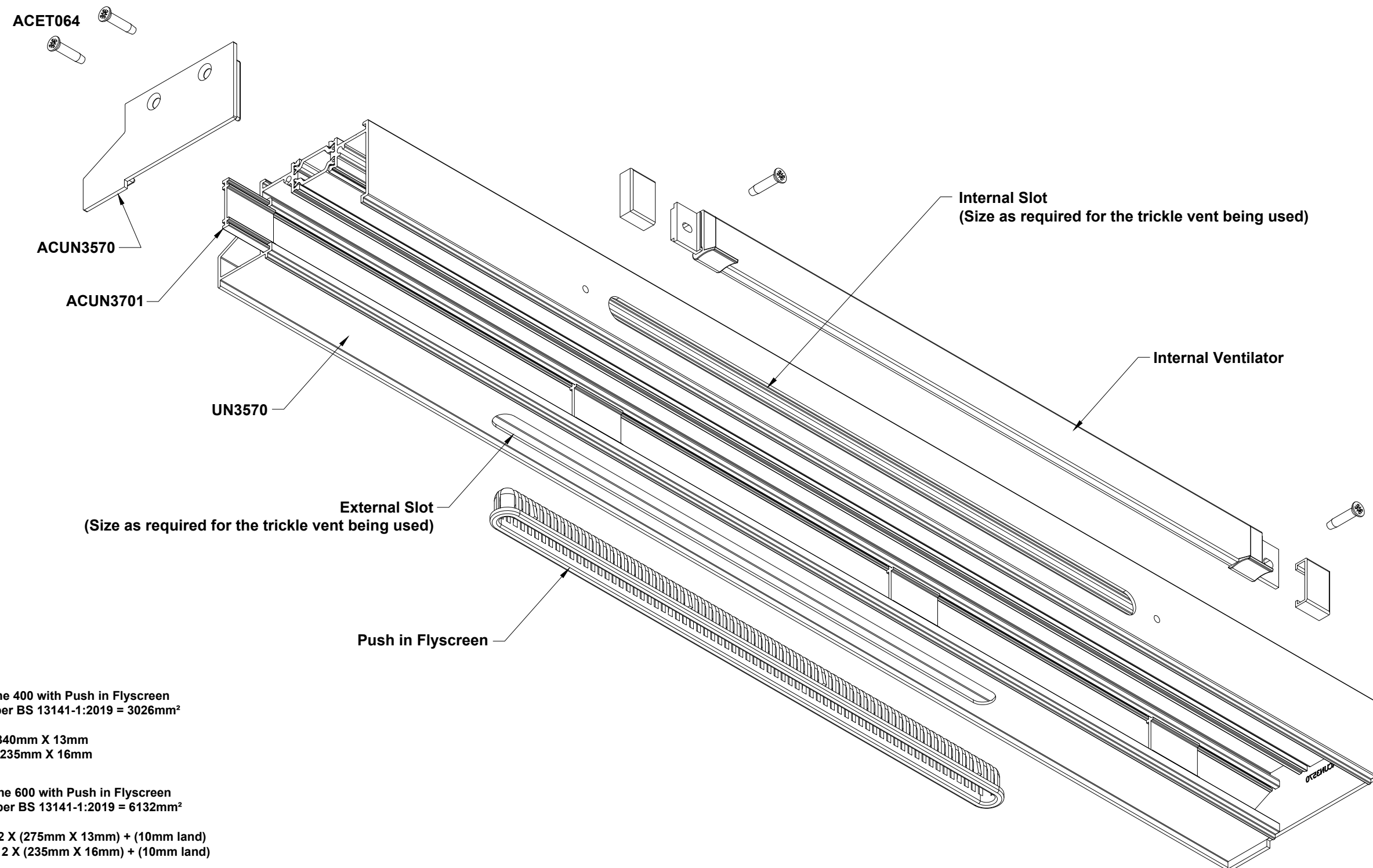


Do Not Scale From This Drawing

ACET149 Fitting Instructions



Trickle Vent

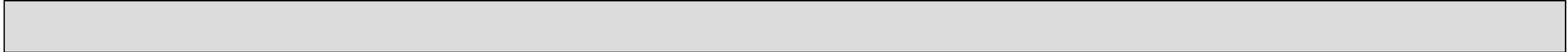


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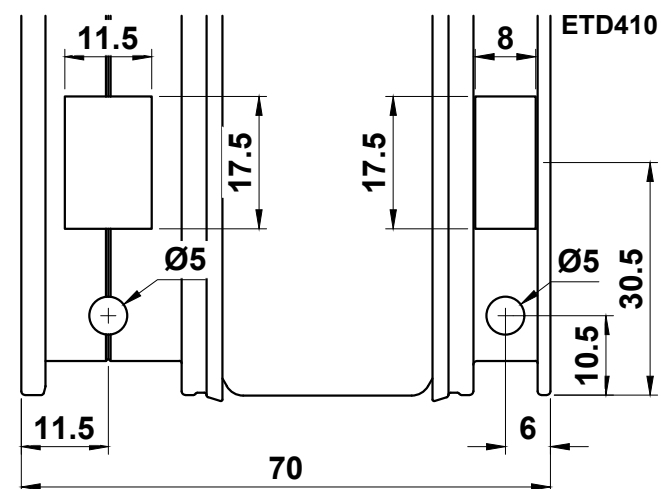
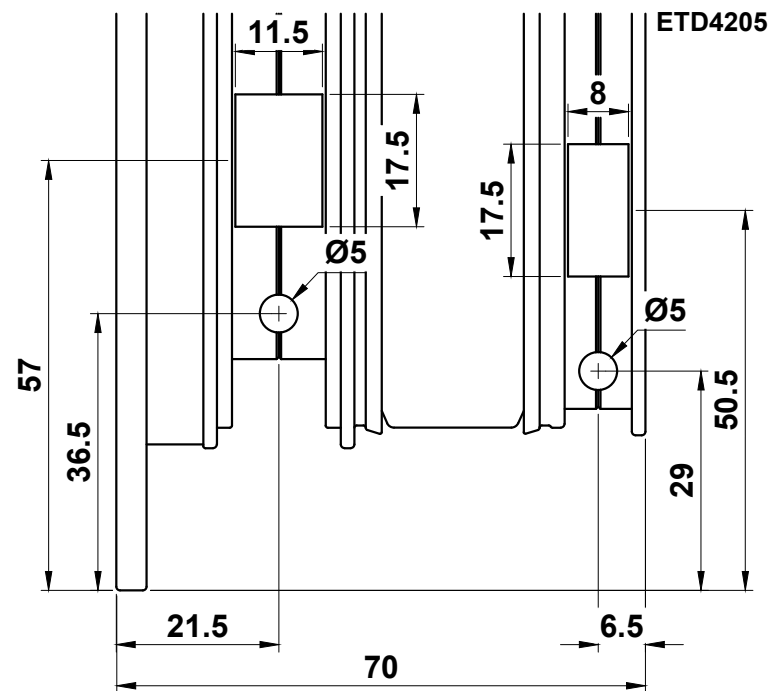
Section E

Construction Drawings - Open Out

Corner Joint Detail.....	E65	Heritage ACW20066 L/R Door Centre Keep Prep	E91
Corner Crimping.....	E66	Lift Lever Shootbolt Layout.....	E92
ACUL900 Punch Tool	E67	Heritage Double Door L/Lever Shootbolt Layout	E93
Low Rebate Threshold Assembly.....	E68	Heritage ACW20367 Floating Mullion Install.....	E94
Low Ramp Threshold Assembly.....	E69	Lift Lever Full Frame Preparation.....	E95 - E96
Drainage.....	E70 - E71	Lift Lever Low Rebate Preparation.....	E97 - E98
Sub Cill Drainage.....	E72	Lift Lever Low Ramp Preparation.....	E99 - E100
Quick-Glaze Bead Transom Assembly.....	E73	ACUL267 & ACUL268 Lock Preparation.....	E101
Door Locking Hardware Options.....	E74	Fingerbolt Full Frame Preparation.....	E102 - E103
Lock Overview of Single and Double Doors.....	E75	Fingerbolt Low Rebate Preparation.....	E104 - E105
Panic Bar Hardware Overview.....	E76	Fingerbolt Low Ramp Preparation.....	E106 - E107
Heritage Single Door Hardware Options.....	E77	Heritage Fingerbolt Full Frame Preparation.....	E108
Heritage Double Door Hardware Options.....	E78	Heritage Fingerbolt Low Rebate Preparation.....	E109
Hinge Preparation.....	E79	Heritage Fingerbolt Low Ramp Preparation.....	E110
ACUL478 Surface Fixed Closer & Slide Arm....	E80	Letter Plate Fitting.....	E111
Single Door Lock Preparation.....	E81	Glazing Chart.....	E112 - E114
Single Door Shootbolt Detail.....	E82	Glazing Details.....	E115
Electric Strike Details.....	E83	Quick-Glaze Bead.....	E116 - E117
Single Point Lock & Internal Lever Handle Prep	E84	Glass Adjuster.....	E118
Stainless Steel Hardware.....	E85	Fixing Strap Detail.....	E119
Panic Bar Preparation.....	E86	Example Layout.....	E120
Panic Lock Preparation.....	E87	Restrictor Fitting.....	E121
Heritage Open Out Door Lock Preparation.....	E88	Trickle Vent.....	E122
Heritage Open Out Door Handle Preparations...	E89		
Heritage ACW20367 Door Keep Position Guide.	E90		

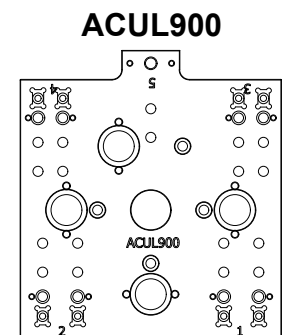
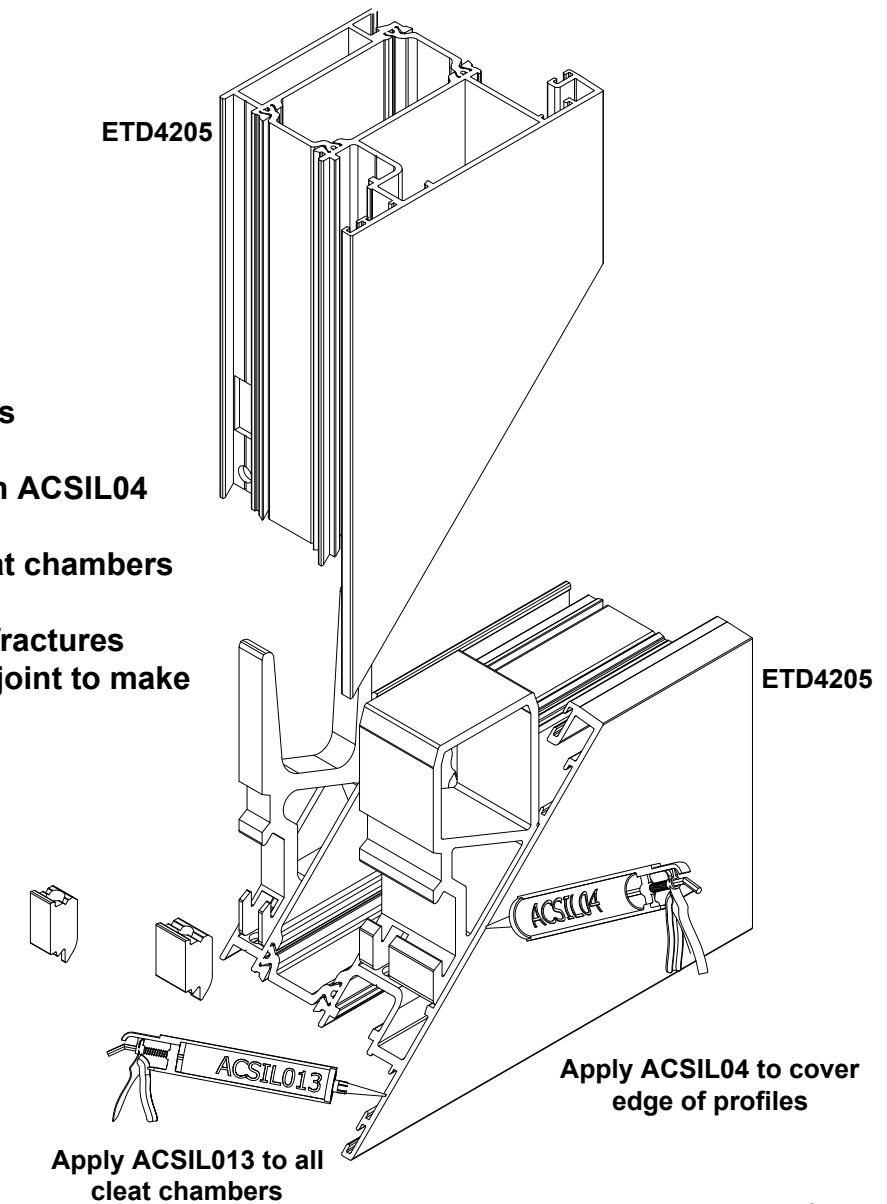


Corner Joint Details



Notes

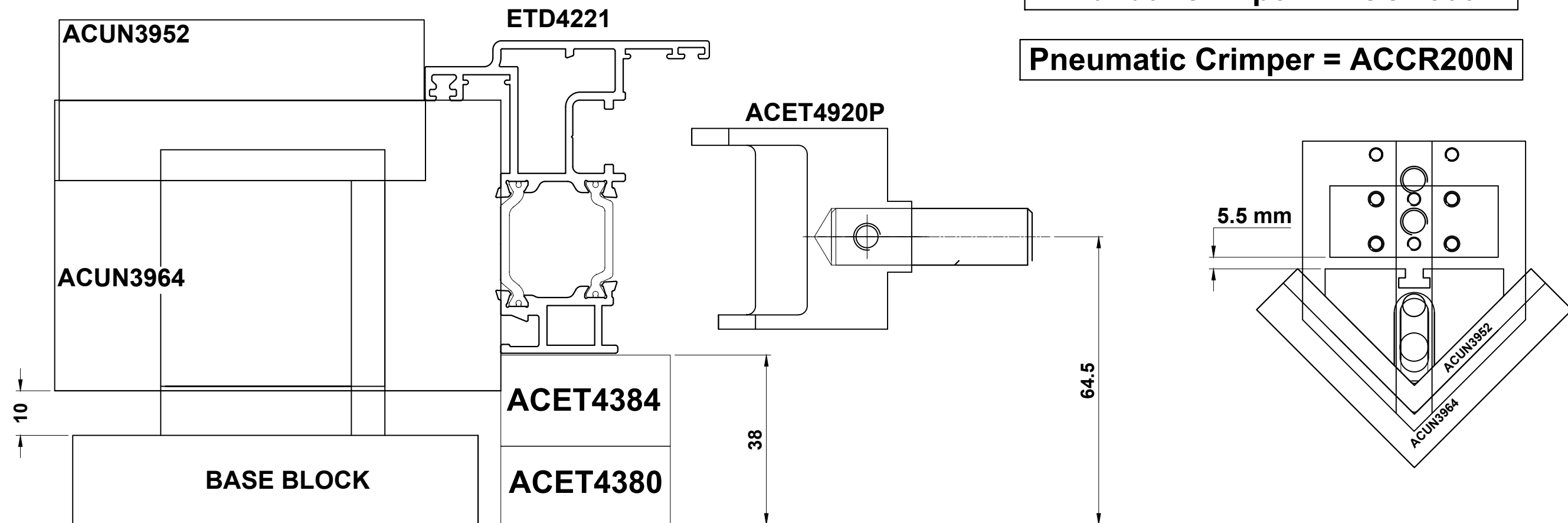
1. Degrease mitre sections
2. Cover mitred faces with ACSIL04
3. Apply ACSIL013 to cleat chambers
4. Apply ACSIL04 to any fractures formed by mechanical joint to make watertight



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

Do Not Scale From This Drawing

Corner Crimping



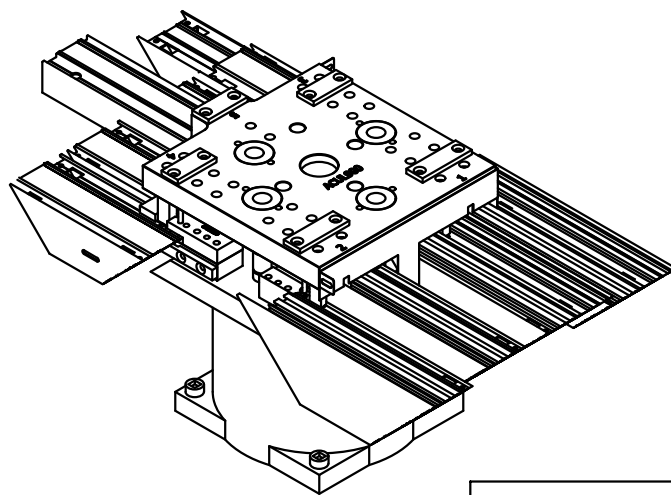
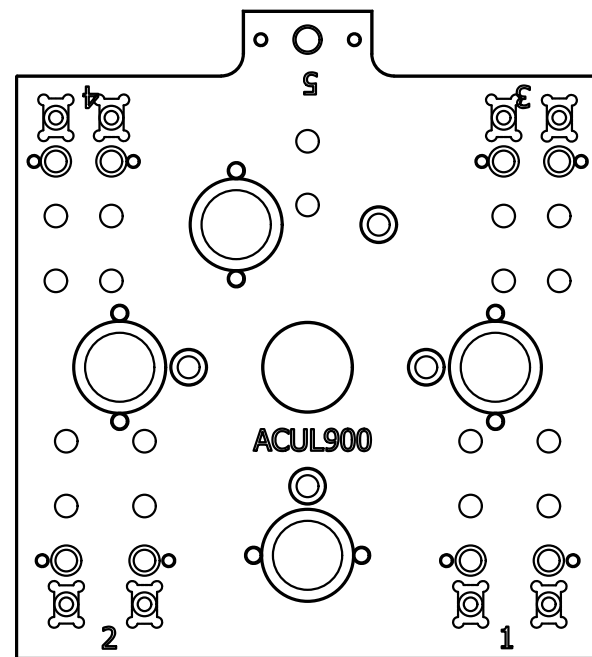
Manual Crimper = ACCR300

Pneumatic Crimper = ACCR200N

Please consult our Technical Department for support with alternative crimper models

Do Not Scale From This Drawing

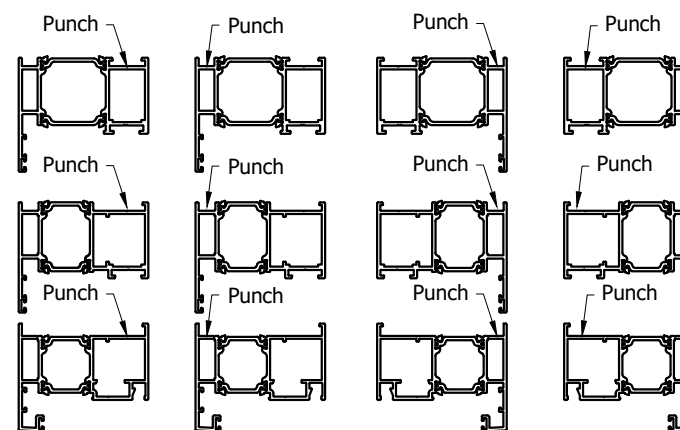
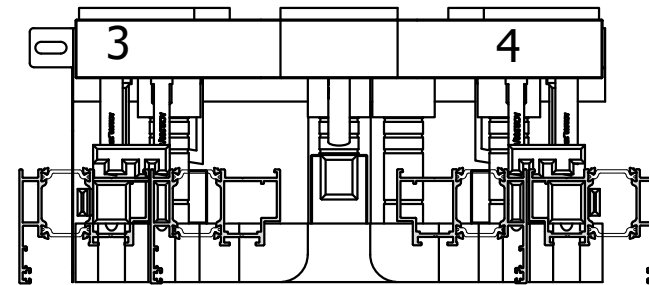
ACUL900 Punch Tool



IMPORTANT NOTE:
Please do not overtighten
retaining nut to punch tool base.

Use support stands for longer
lengths of profiles.

Station 3 & 4



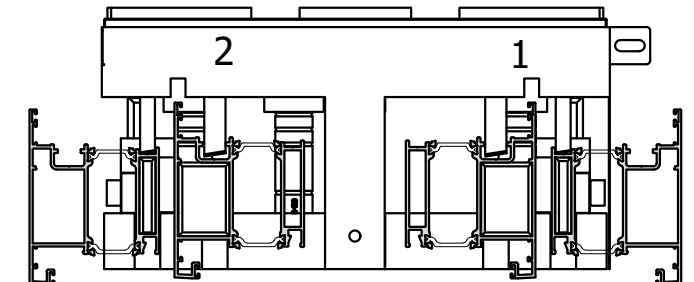
Station
3&4
Profiles

ETD410

ETD404

ETD402

Station 1 & 2



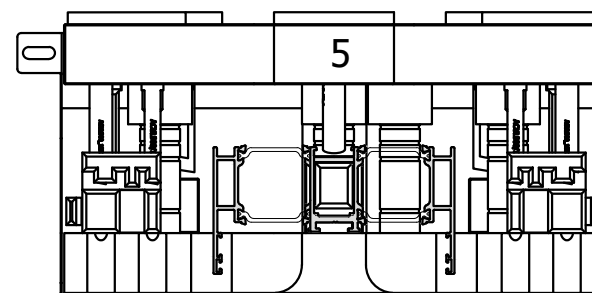
Station
1&2
Profiles

ETD4205

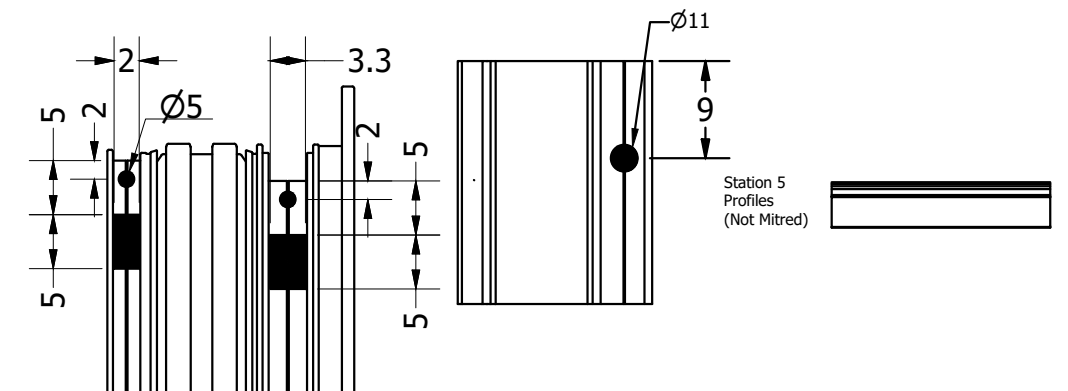
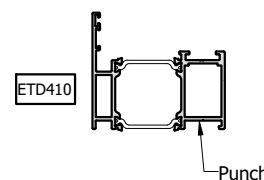
ETD4204

ETD424

Station 5

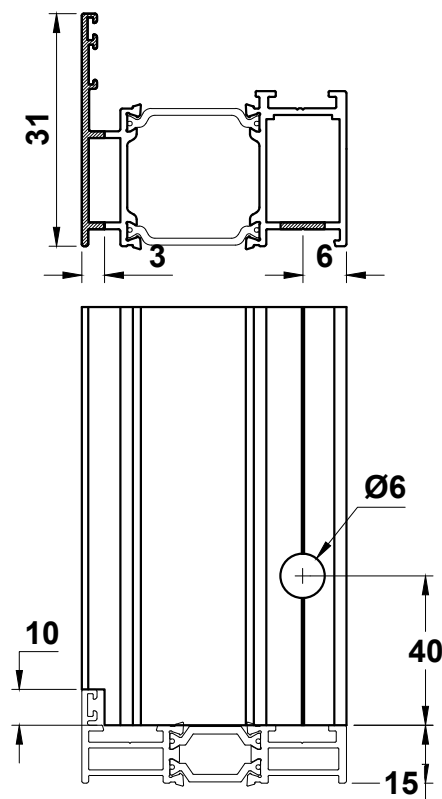
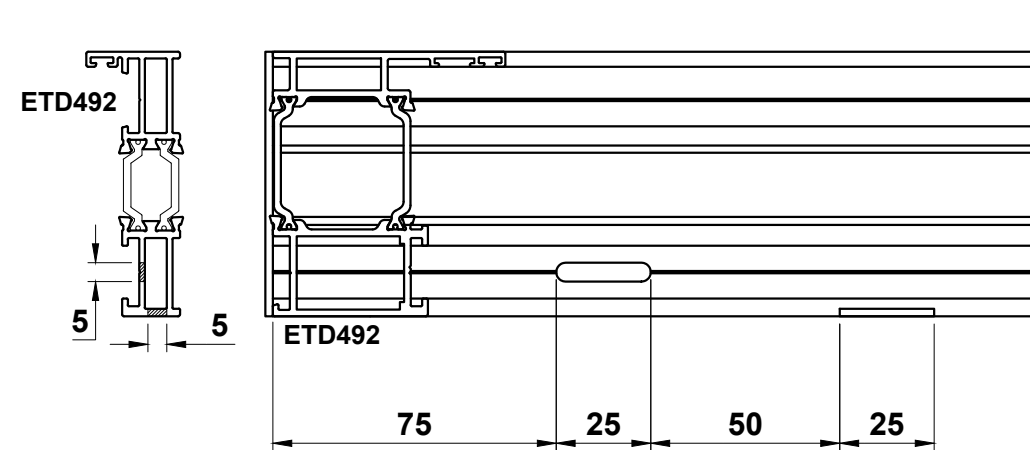


Station 5 Profiles

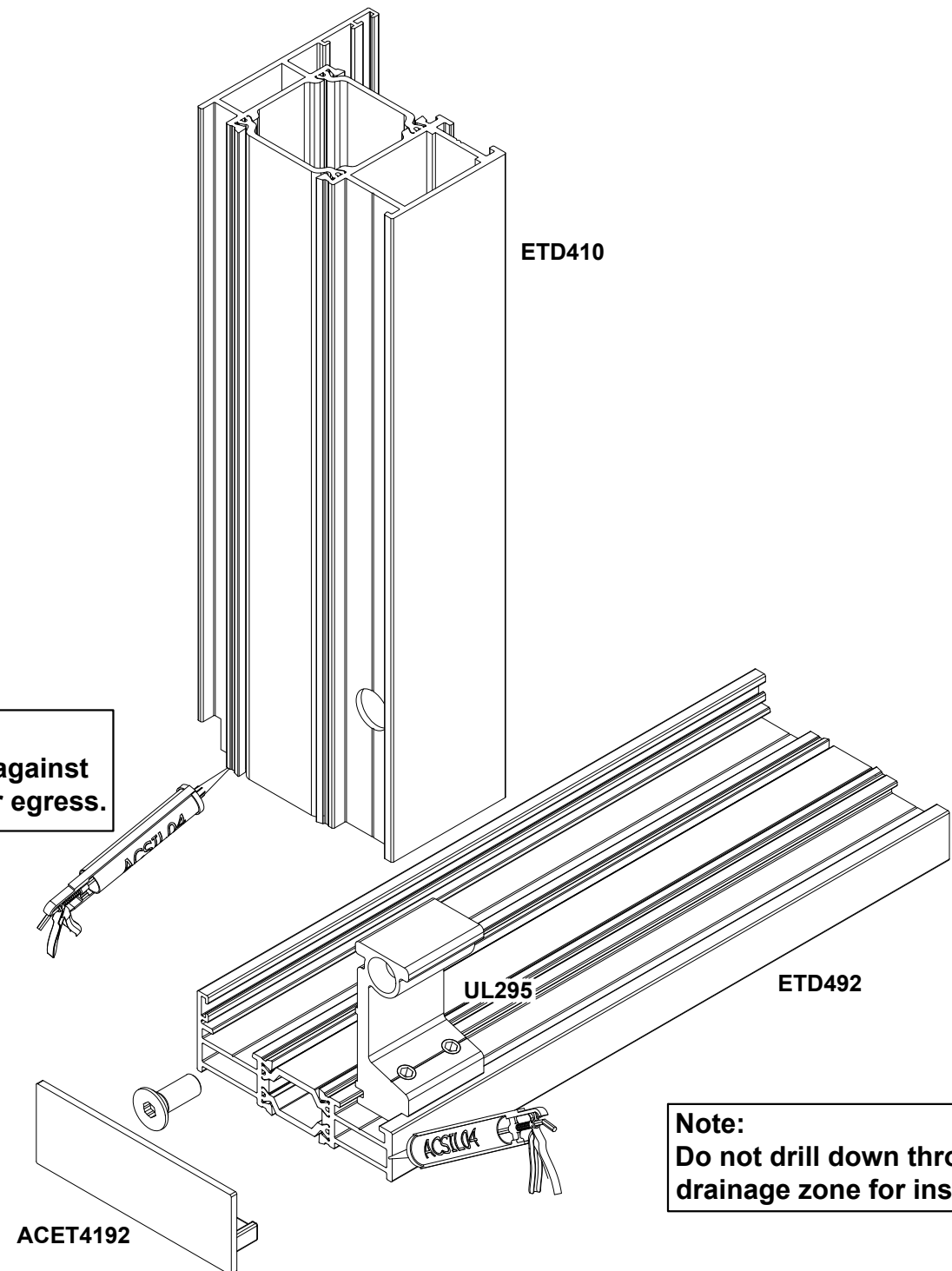


Do Not Scale From This Drawing

Low Rebate Threshold Assembly



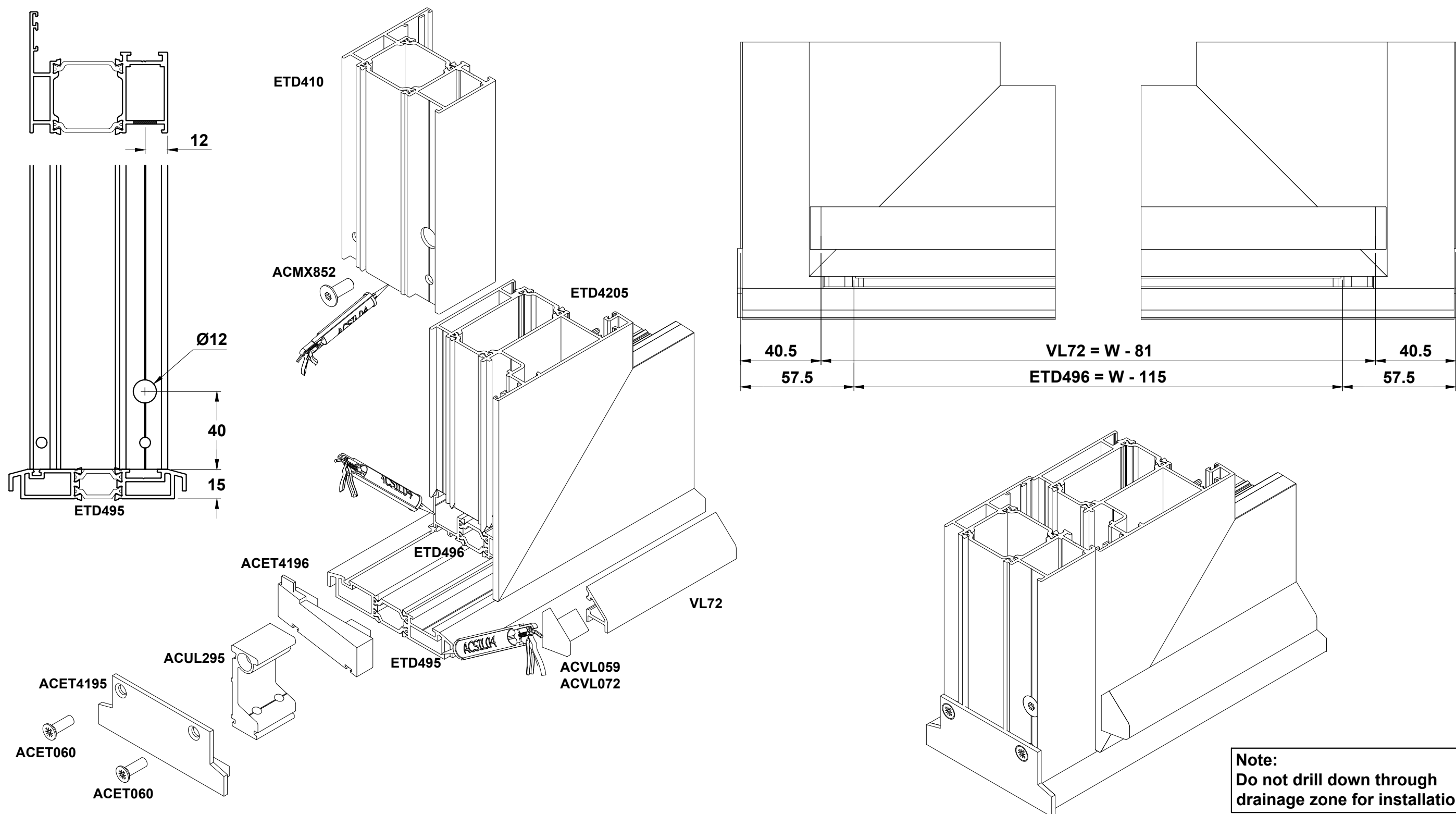
Important Note:
Ensure end cap is sealed against
threshold to prevent water egress.



Note:
Do not drill down through
drainage zone for installation.

Do Not Scale From This Drawing

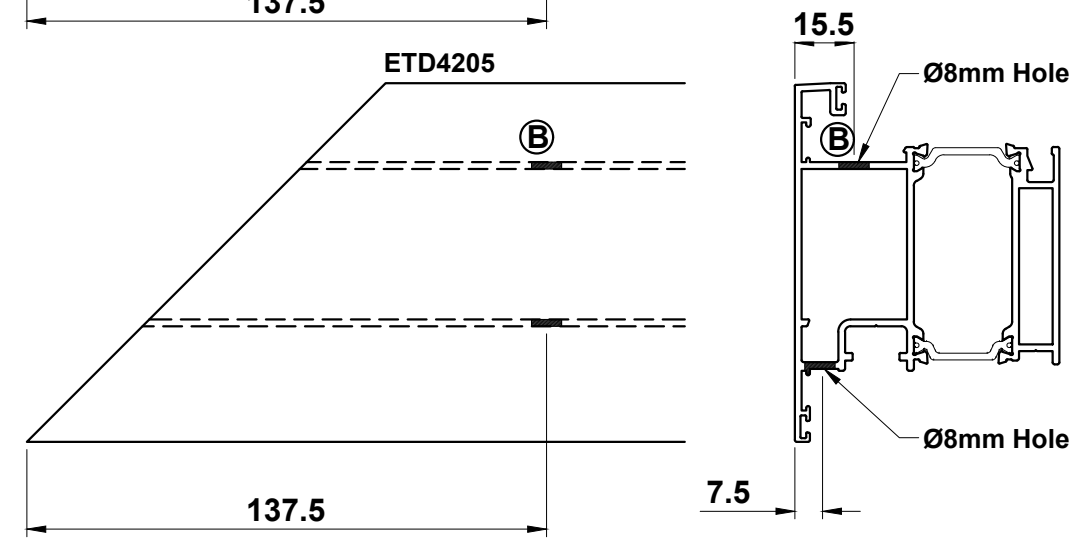
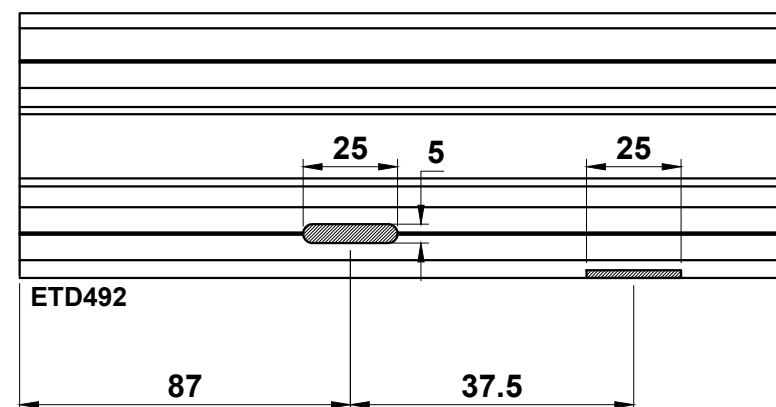
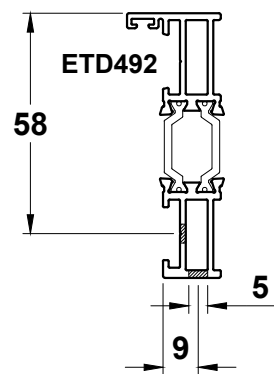
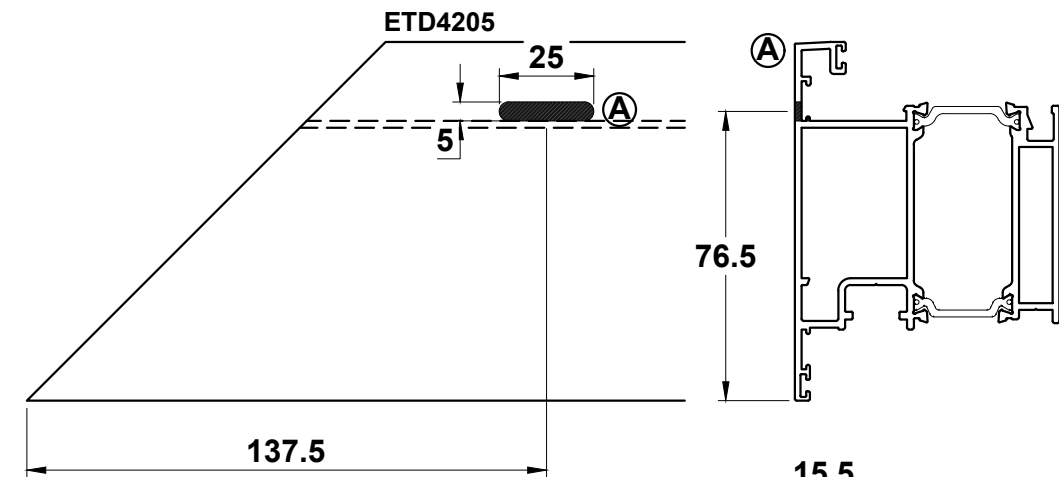
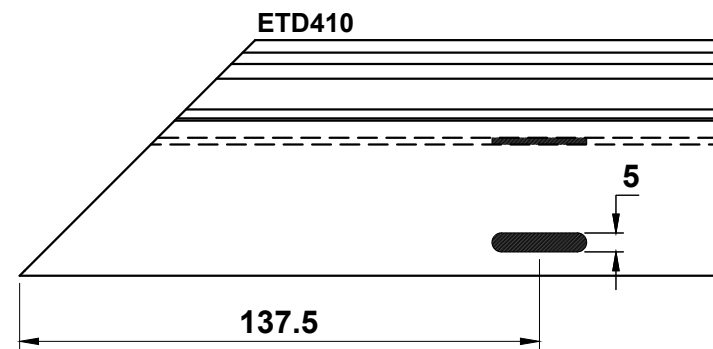
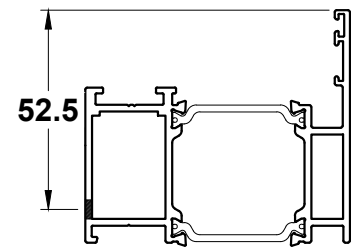
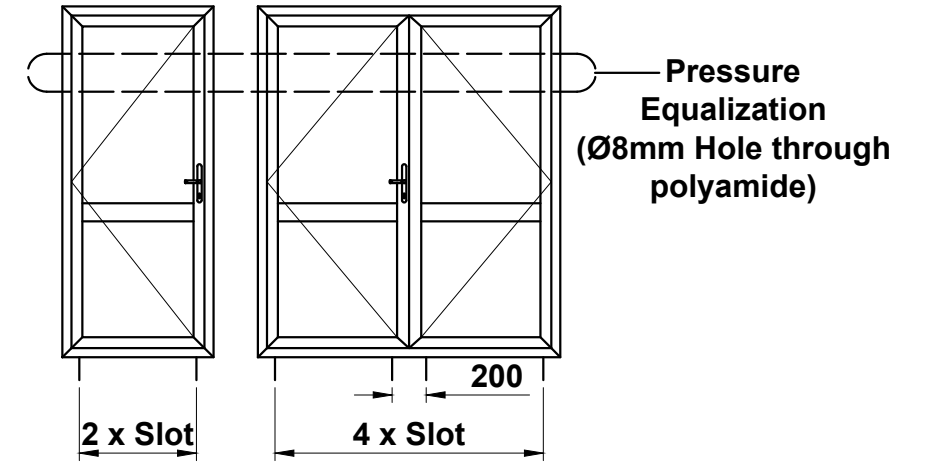
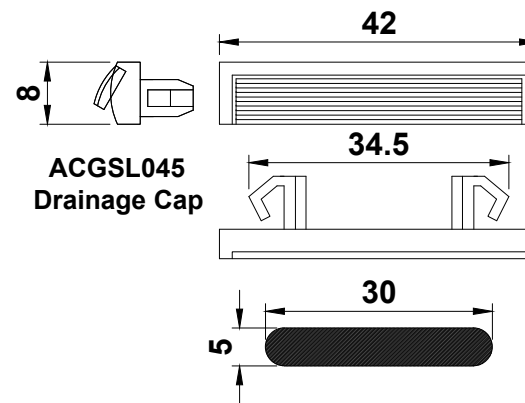
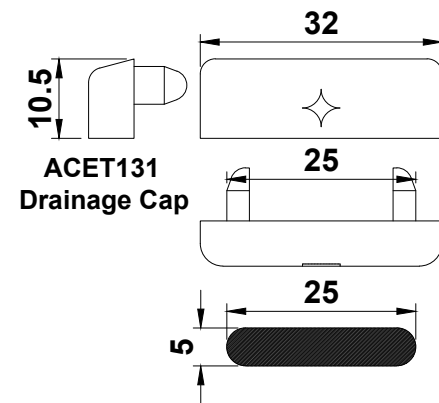
Low Ramp Threshold Assembly



Do Not Scale From This Drawing

Drainage

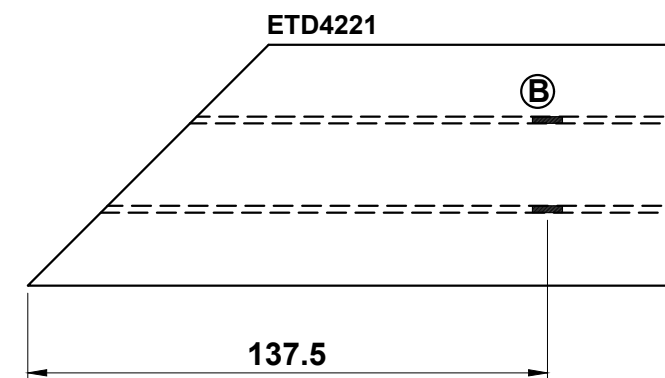
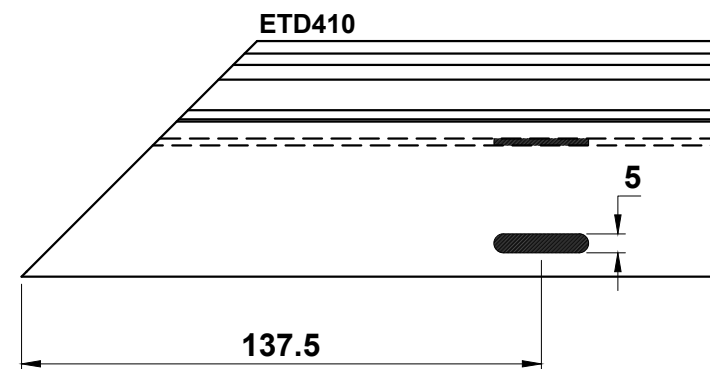
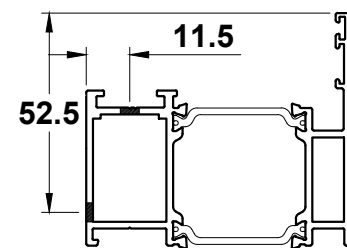
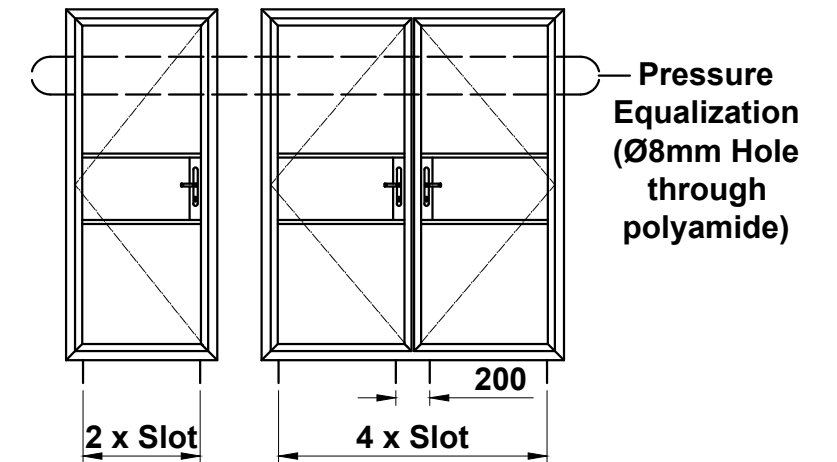
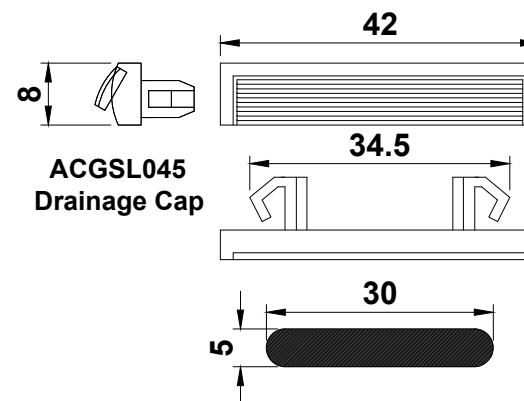
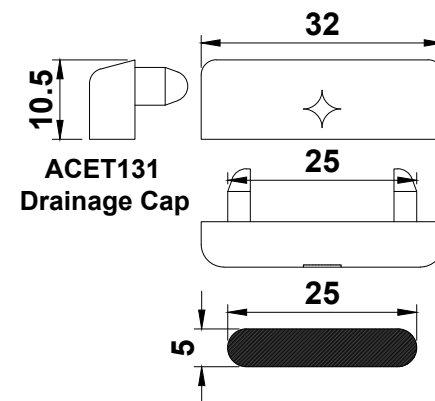
Important Note: All exposed aluminium should be coated using ACSIL014 or painted to match the frame.



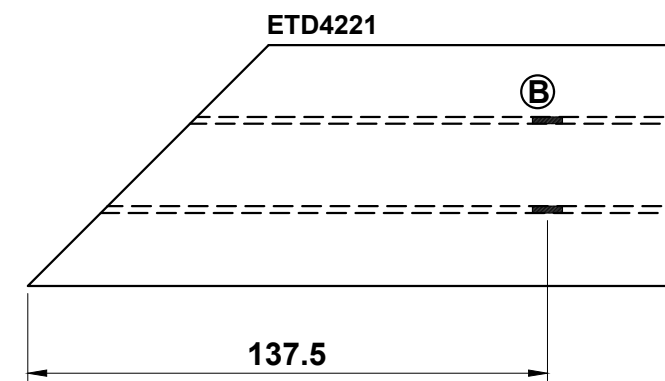
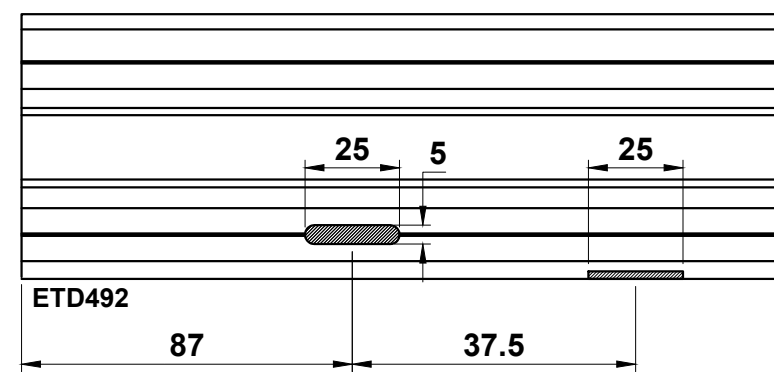
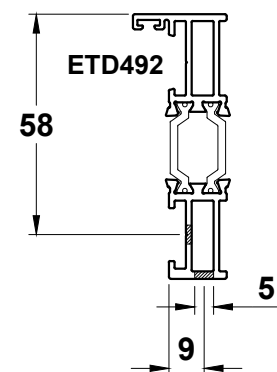
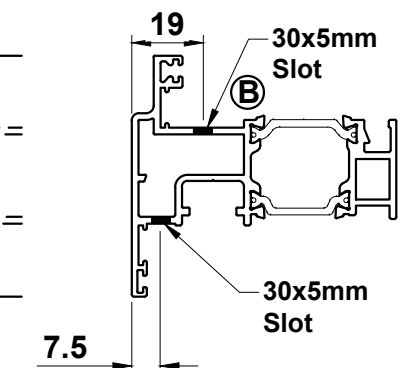
Do Not Scale From This Drawing

Drainage

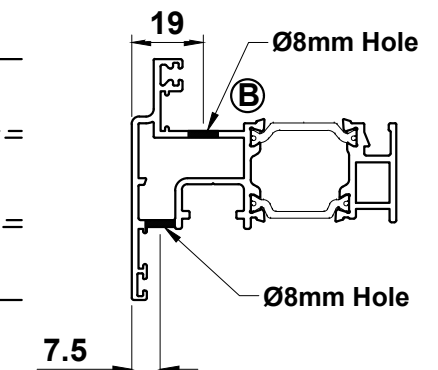
Important Note: All exposed aluminium should be coated using ACSIL014 or painted to match the frame.



Option A



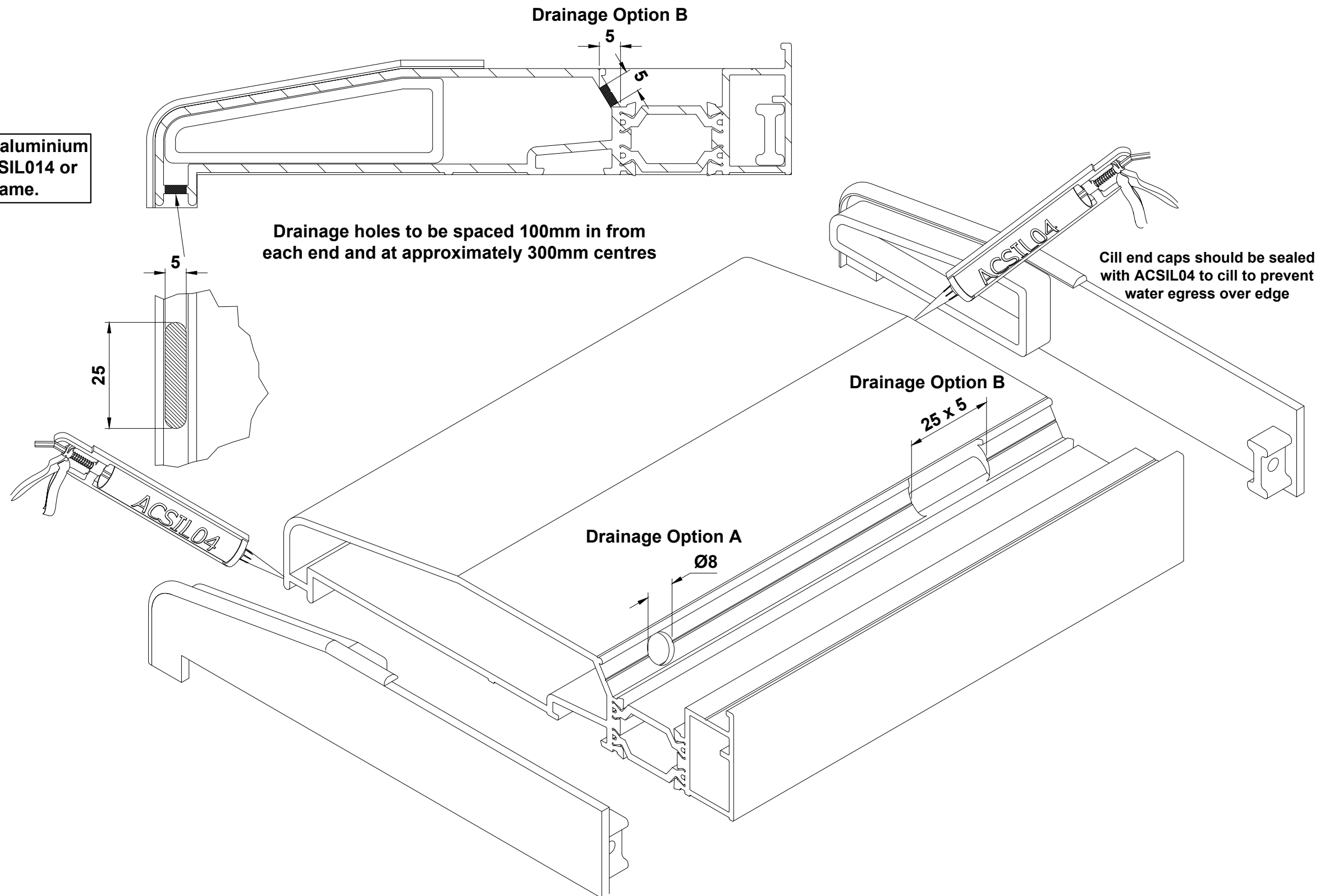
Option B



Do Not Scale From This Drawing

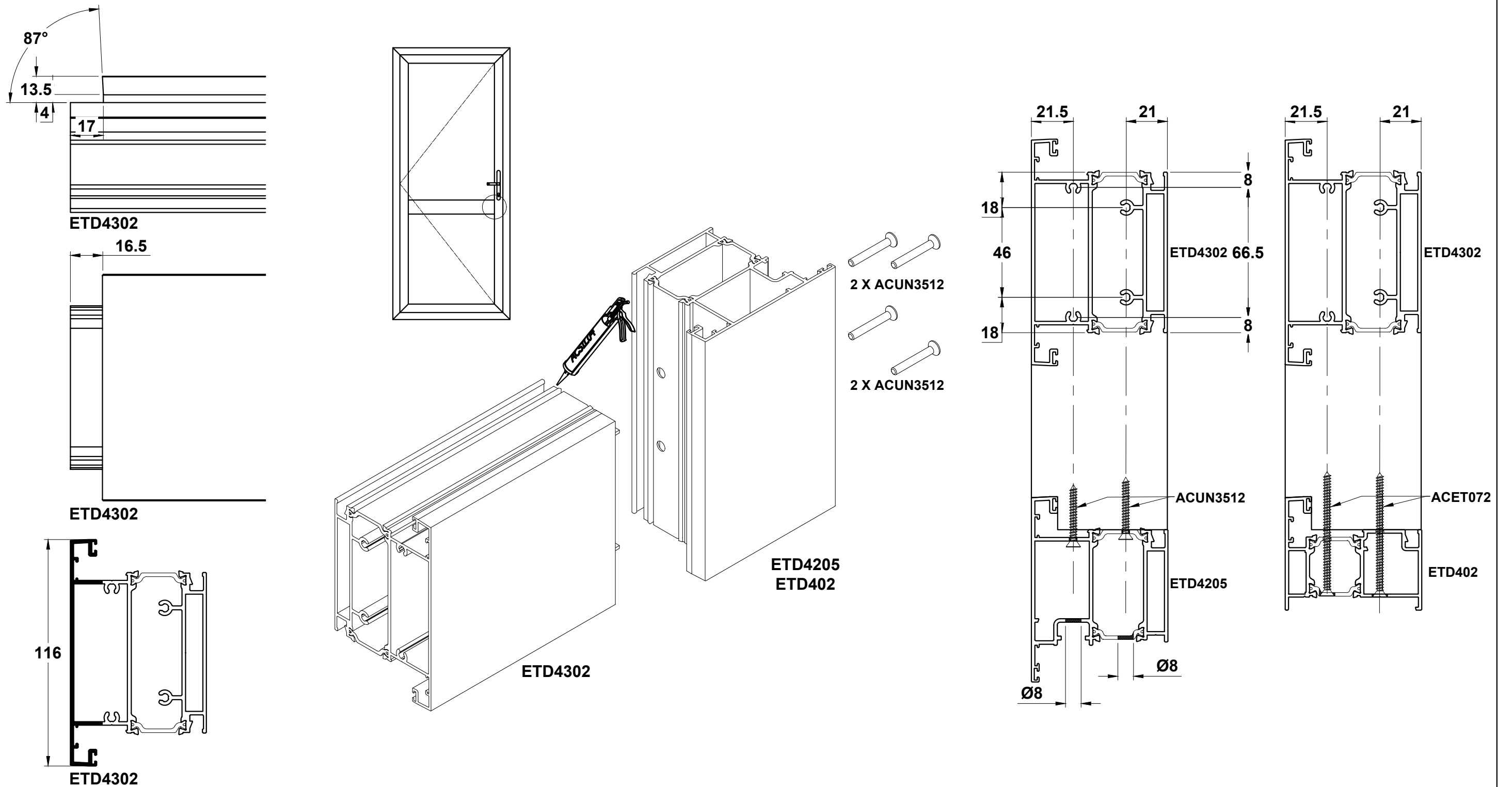
Sub Cill Drainage

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



Do Not Scale From This Drawing

ETD4302 Midrail Assembly



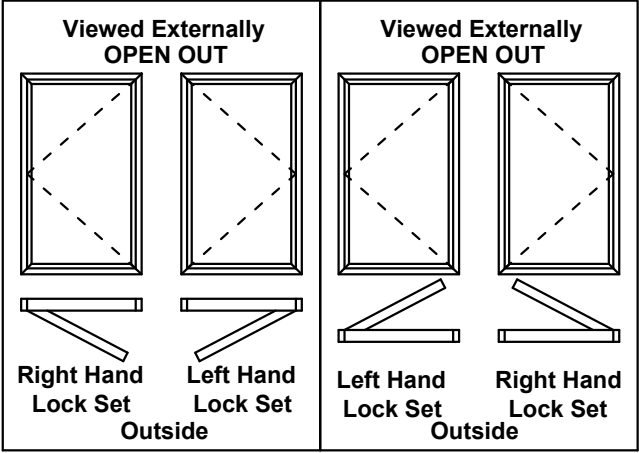
Do Not Scale From This Drawing

Door Locking & SZ Hardware Options

Handle With Large Backplate Guide

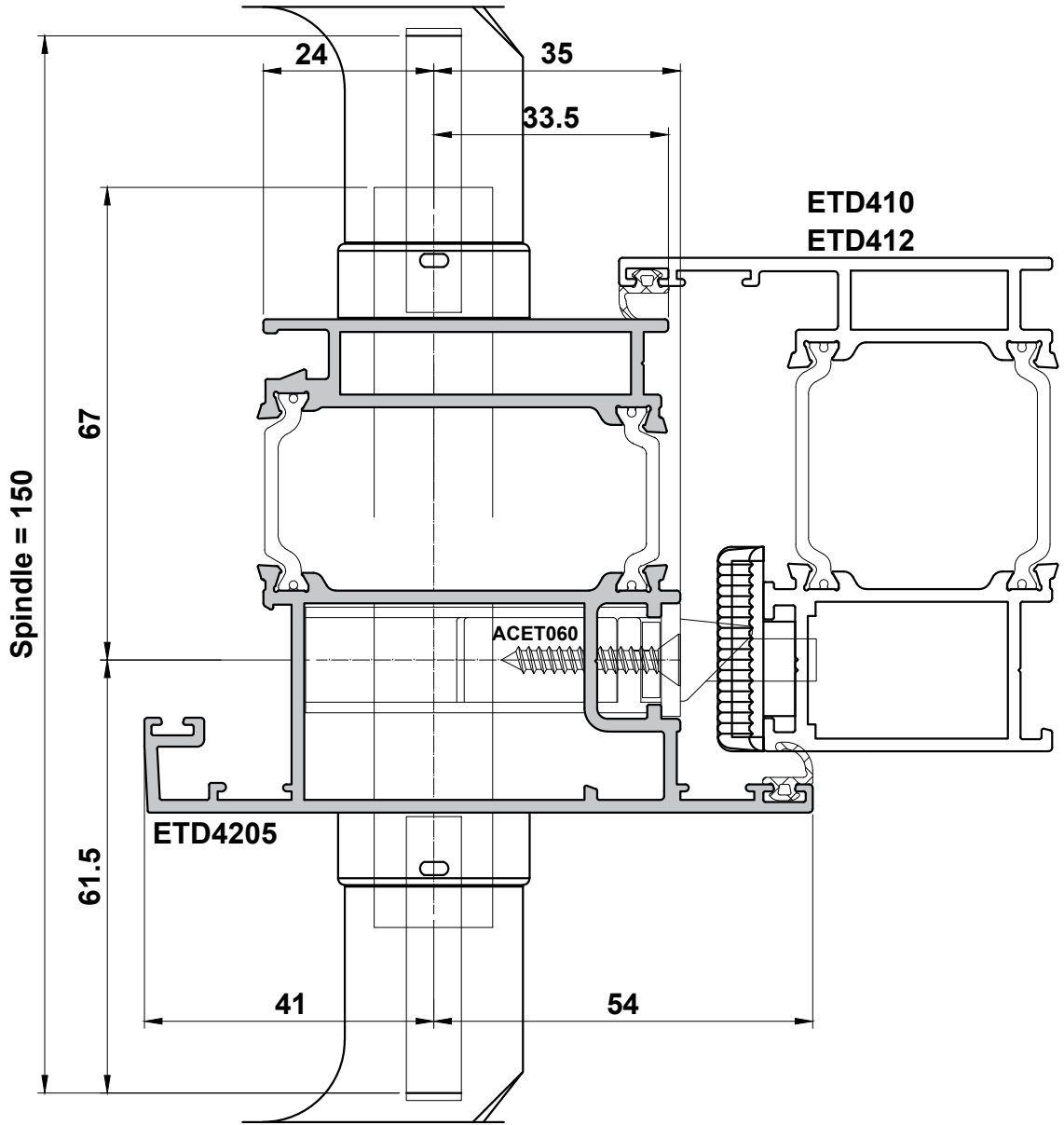
Ext. Handle	Int. Handle	Spindle	Cylinder	Screw
ACSZ800	ACSZ801 ACSZ803 ACSZ830	ACMX409Sq. Spindle 150mm	ACCY0035 Half Cylinder	ACMX861 M5 x 75mm
ACSZ802	ACSZ803 ACSZ830		ACCY3560S3 35/60 Cylinder	
ACSZ400 + 2 x ACVS061	ACSZ803 ACSZ830	ACMX008 Sq. Spindle 60mm	ACCY3560S3 35/60 Cylinder	ACVS061 M5 x 40mm

Keep Handling Guide



Handle with Small Backplate Guide

Ext. Handle	Ext. Escutcheon	Int. Handle	Int. Escutcheon	Spindle	Cylinder	Screw	Rivnuts
ACSZ837	ACSZ400	ACSZ836	ACSZ839	ACMX409Sq. Spindle 150mm	ACCY3560S3 ACCY0035	WCA134 M5 x 20mm	ACUN3509 M5
	ACSZ400			ACMX008 Sq. Spindle 60mm	ACCY3560S3 ACCY0035	WCA134 M5 x 20mm	ACUN3509 M5
ACSZ837	ACSZ400	ACSZ827		ACMX409Sq. Spindle 150mm	ACCY3560S3 ACCY0035	WCA134 M5 x 20mm	ACUN3509 M5



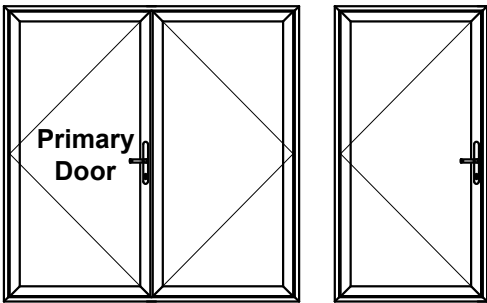
- With Cylinder
- Without Cylinder
- T Handle With Cylinder
- T Handle Without Cylinder

Note:
Please check kitemark for all
suitable hardware to achieve PAS24.

Do Not Scale From This Drawing

Lock Overview of Single and Double Doors

Finger Bolt Locking Options



Single & Primary Door Lock Selection

Overall Sash Height	Lift Lever		Slam Lock		Key Wind	
	Left	Right	Left	Right	Left	Right
2030-2230 (Standard)	ACUL272	ACUL273	ACUL280	ACUL281	ACUL282	ACUL283
1820-2029 (Short)	ACUL377	ACUL378	ACUL360	ACUL361	ACUL362	ACUL363
2231-2450* (Tall)	ACUL374	ACUL375	ACUL380	ACUL381	ACUL382	ACUL383

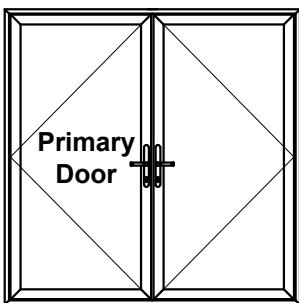
*Any doors above 2450mm are above the tested limit.

Secondary Door Accessory Selection

35mm Backset Shootbolt Adaptor	Bottom 10mm Dia Rod	Top 10mm Dia Rod		Keep	Shootbolt Guide
		Overall Size	Rod Part No.		
	ACPD846 (1000mm)	1820 - 1923	ACPD846 (1000mm)	ACUL390 (2 Required)	ACUL242 (2 Required)
		1923 - 2173	ACPD847 (1250mm)		
		2174 - 2323	ACPD848 (1500mm)		
		2323 - 2423*	ACPD848 (1500mm)		

*For doors above 2423mm, use ACPD849 (2000mm)

Lift Lever Locking Options



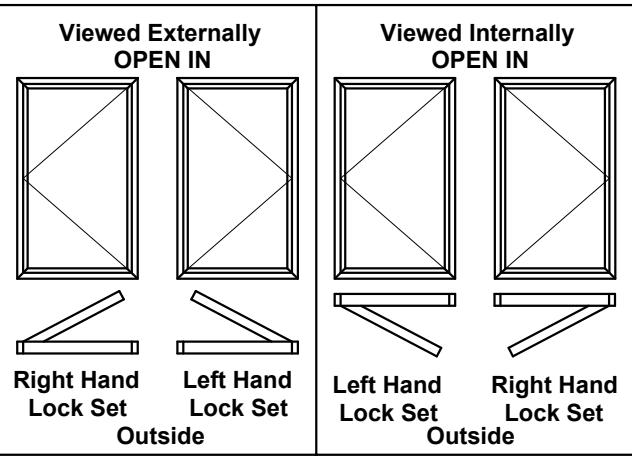
Double Handle Lift Lever Lock Option

Overall Sash Height	Primary Door Lift Lever		Secondary Door Lift Lever	Double Door Keep	Shootbolts	Shootbolt Extensions
	Left	Right				
1885-2450*	ACUL277	ACUL278	ACUL276	ACUL279	ACDV737 ACDV738	ACDV742 ACDV744

*Any doors above 2450mm are above the tested limit.

**Please see page E92 for shootbolt layout.

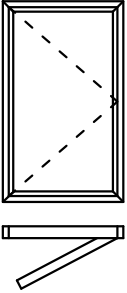
Keep Handing Guide

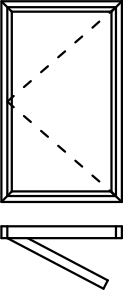


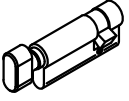
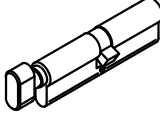
For ACUL267 & 268 Cam Lock Option Refer To Page E101

Do Not Scale From This Drawing

Panic Bar Hardware Overview

Viewed Externally	Lock	Keep
 Right Hand Open Out	1x  ACUL470	1x  ACUL417

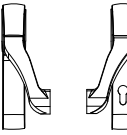
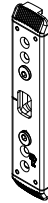
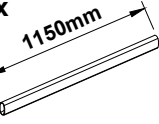
Viewed Externally	Lock	Keep
 Left Hand Open Out	1x  ACUL471	1x  ACUL416

Internal Only	Ext. Access
1x  ACCY0065TTS1 Thumbturn Half Cylinder	1x  ACCY3565TTS1 Thumbturn 35/65 Cylinder

Important:
Cylinders require free movement cam

If you require Key/Key cylinders these are sold by CES Security Solutions

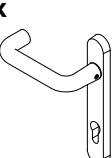
Panic Bar Fittings:

Panic Bar	Fixings	Keep	Int. Spindle
1x  ACUL473	6x  ACUN3581 M5 x 12mm	2x  ACUL472	1x  ACUL469 9 x 60mm SPINDLE
1x  ACUL474	6x  ACUN3499 M5 Washer		
	6x  ACUN3509 M5 Rivnut		

Panic Bar Only Exit:
The door is secured by engaging the deadbolt through two full rotations of the key. Egress is always possible from the interior via the panic bar, which overrides the deadbolt & latch.

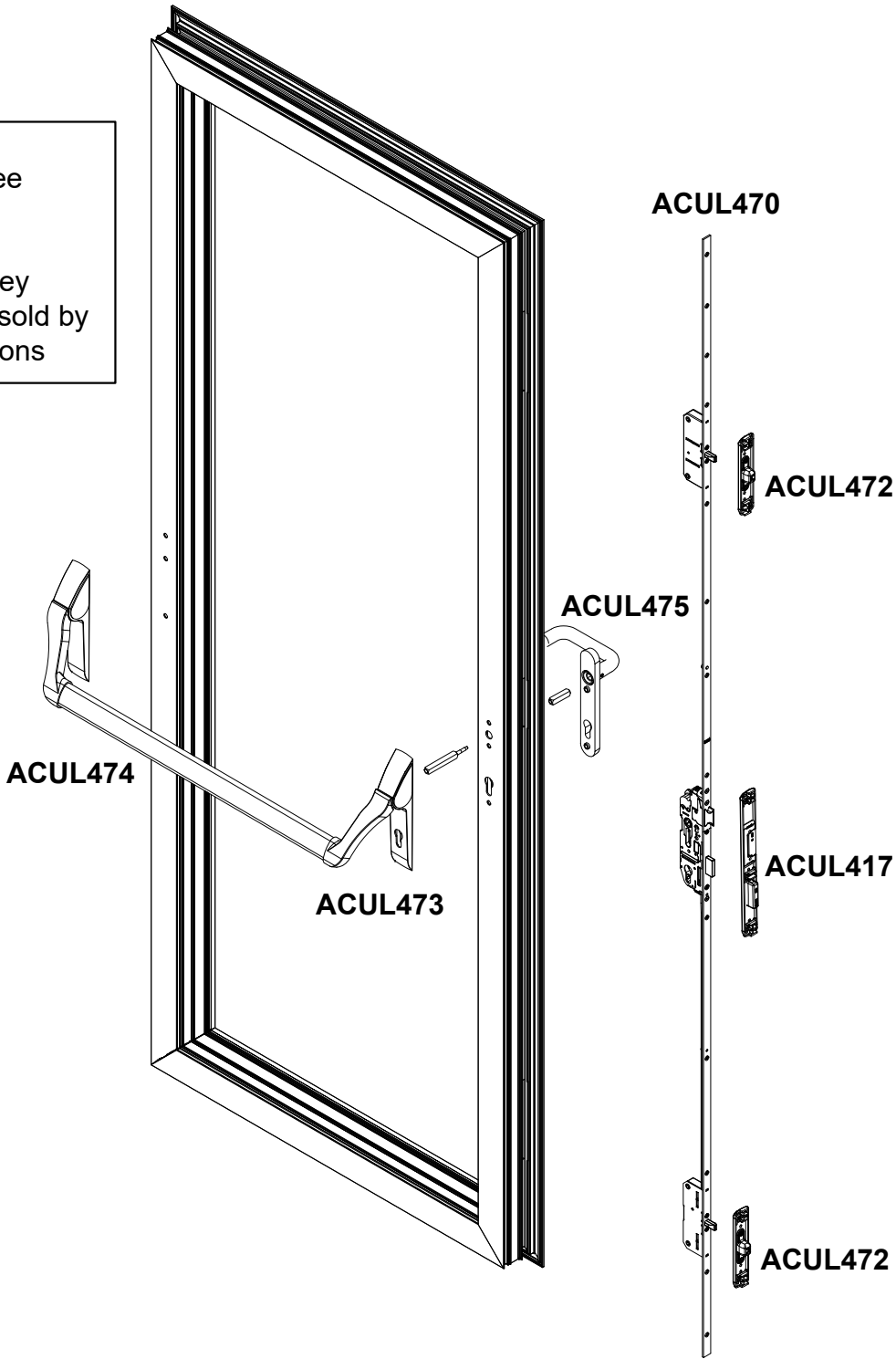
Key Entry:
To enable key-operated access from the exterior, specify the use of escutcheon model ACSZ839 with a external access cylinder.

External Handle Fittings:

Handle	Fixings	Int. Spindle	Ext. Spindle
1x  ACUL475	2 x  ACUN3819 M6 x 75mm	1x  ACUL477 9 x 67mm	1x  ACUL476 9 x 39mm
	2 x  ACUN3500 M6 Washer		

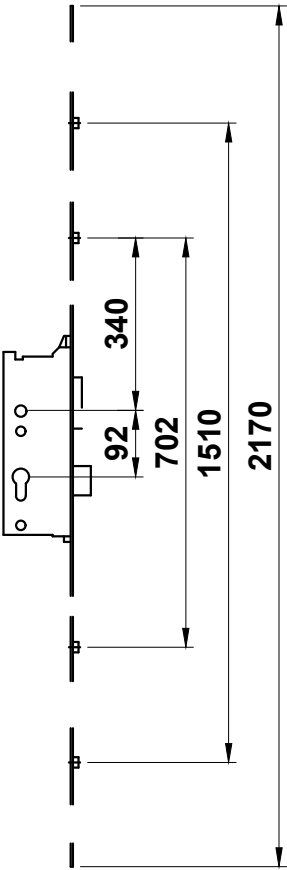
Panic Bar With External Handle:
The external handle is activated by turning the cylinder key to the unlocked position or by engaging the panic bar. Once activated, external access is maintained via the lever handle until the door is manually secured by rotating the cylinder key twice.

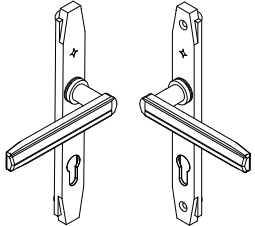
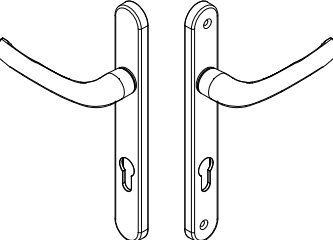
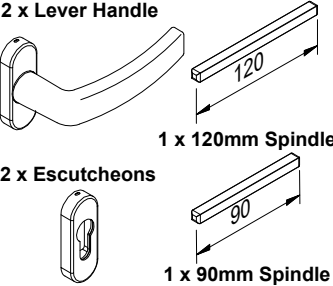
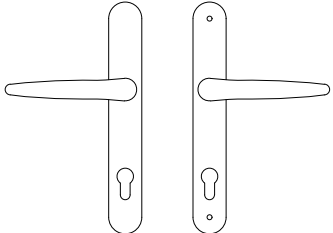
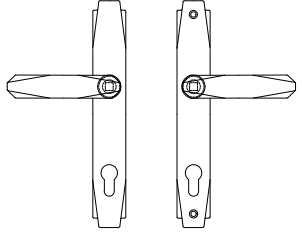
Application: Allows building occupants to exit while simultaneously permitting external access for emergency responders when the door is unlocked.



Do Not Scale From This Drawing

Heritage Single Door Hardware Options

Lock	Accessories	Quantity
	ACW20465	1
	ACCY3060S1	
	ACCY3060TTS1	1
	ACW20066 L/R	
	ACW20367	4

Handles		Quantity
	ACSM001N Art Deco Lever/Lever Door Handle	1 Pair
	ACSM060 Heritage Lever/Lever Handle	
	ACSM095 Suitable With Lift Lever Additional Parts: HEA132 - M5 x 16mm ACUN3509 - M5 Rivnut	
	ACW20261 Standard Lever/Lever Handle Fixing kit supplied	
	ACW20062 Art Deco Lever / Lever Handle Available in Antique Brass and Satin Nickel Plate	

Do Not Scale From This Drawing

Heritage Double Door Hardware Options

Lock

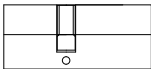
Accessories

Quantity

ACW20465

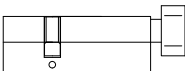
ACW20466

ACCY3060S1

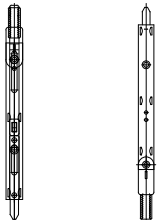


2

ACCY3060TTS1

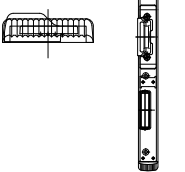


ACDV737/ACDV738



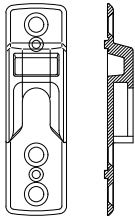
2 / 2

ACW20066 L/R



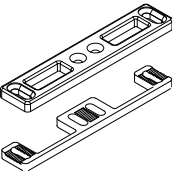
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ACW20367



4

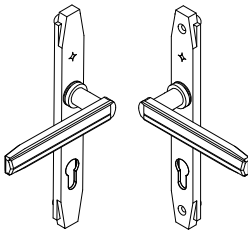
ACUL279



2

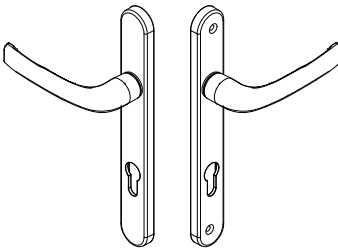
Handles

Quantity



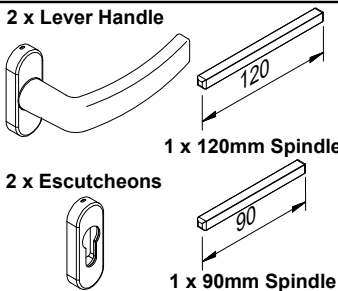
ACSM001N

Art Deco Lever/Lever Door Handle



ACSM060

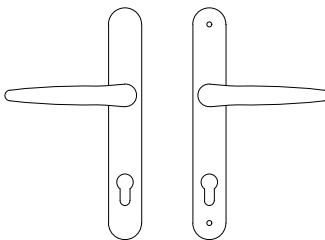
Heritage Lever/Lever Handle



ACSM095

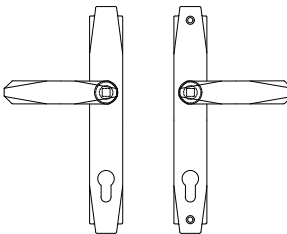
Suitable With Lift Lever

Additional Parts:
HEA132 - M5 x 16mm
ACUN3509 - M5 Rivnut



ACW20261

Standard Lever/Lever Handle
Fixing kit supplied



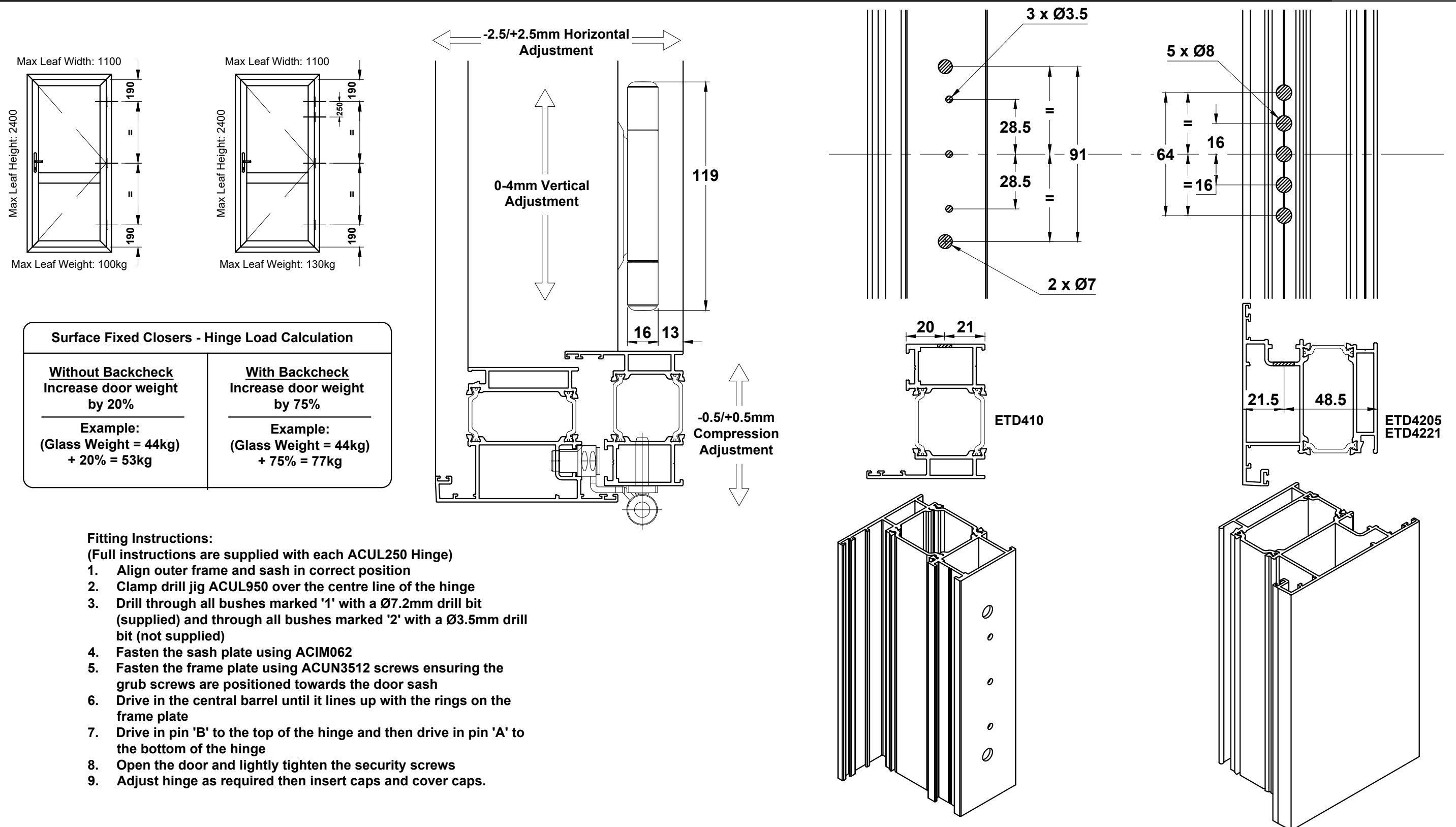
ACW20062

Art Deco Lever / Lever Handle
Available in Antique Brass and
Satin Nickel Plate

2 Pair

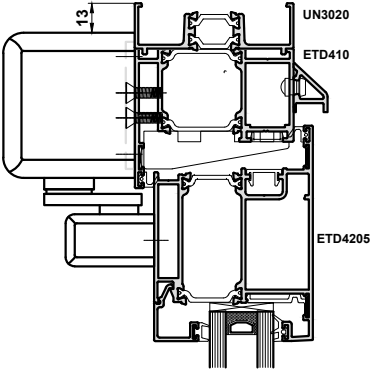
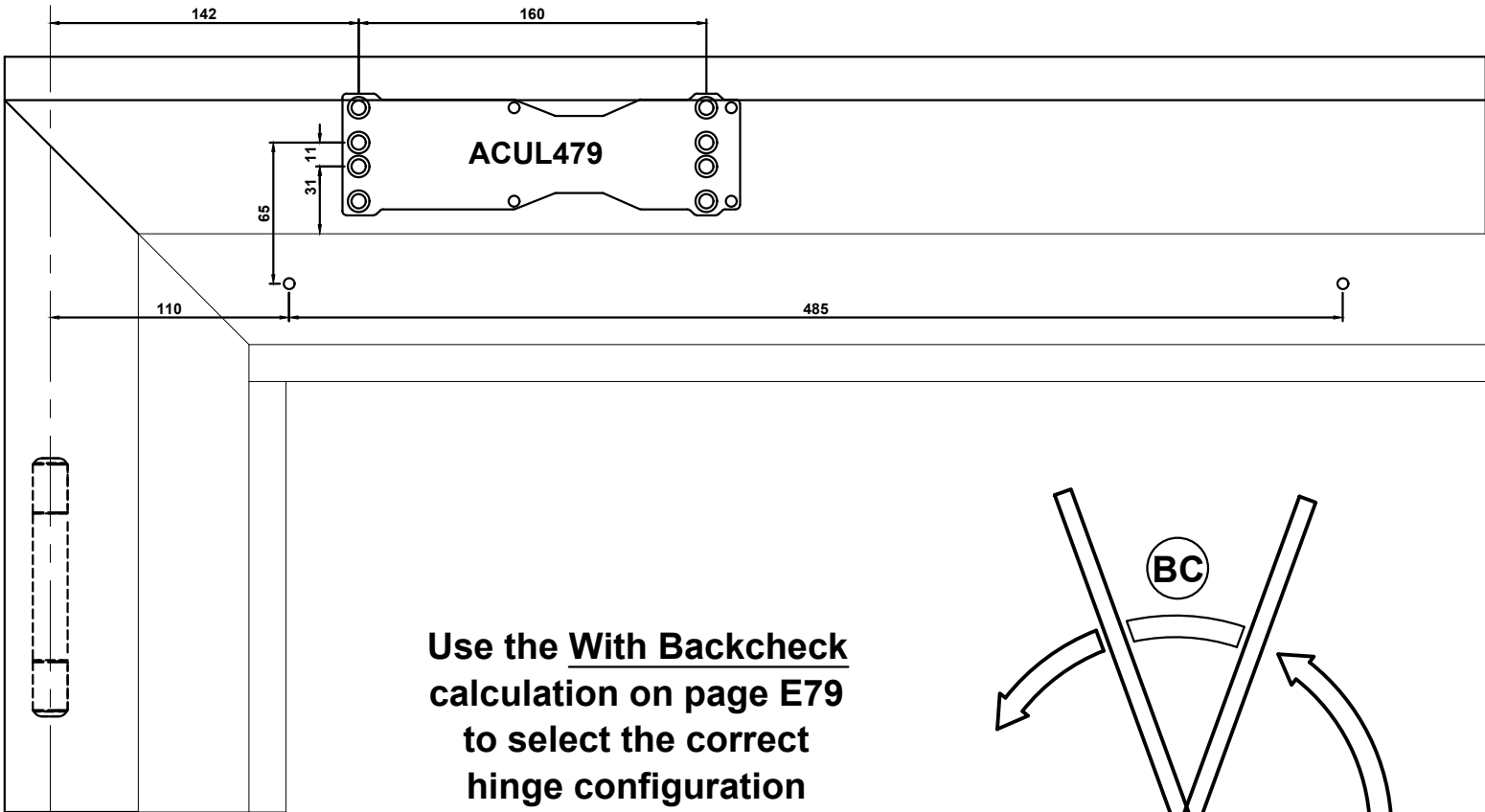
Do Not Scale From This Drawing

ACUL250 Hinge Preparation

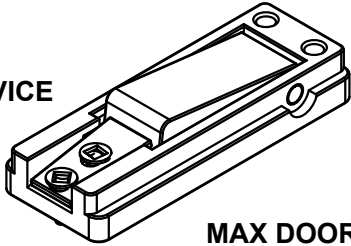


Do Not Scale From This Drawing

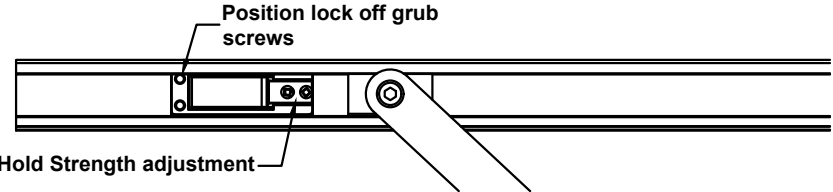
ACUL478 Surface Fixed Closer & Slide Arm - Open Out



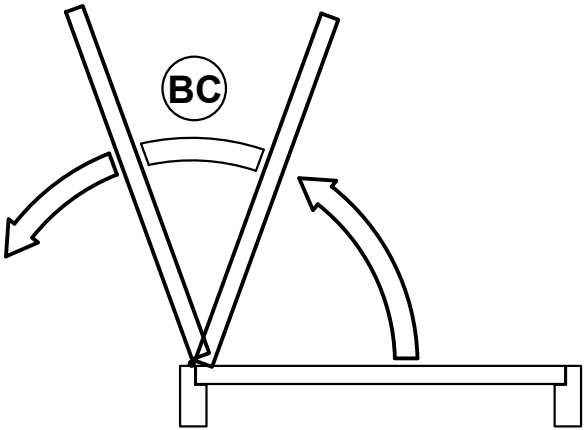
ACUL480
HOLD OPEN DEVICE



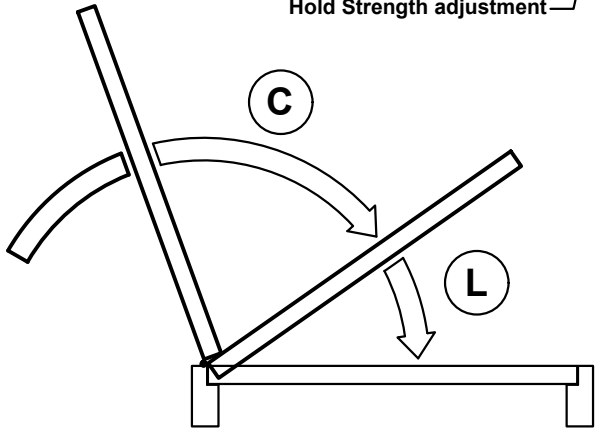
MAX DOOR WEIGHT 80KG



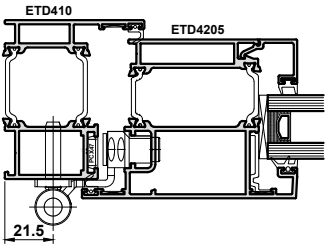
Use the With Backcheck calculation on page E79 to select the correct hinge configuration



BACKCHECK

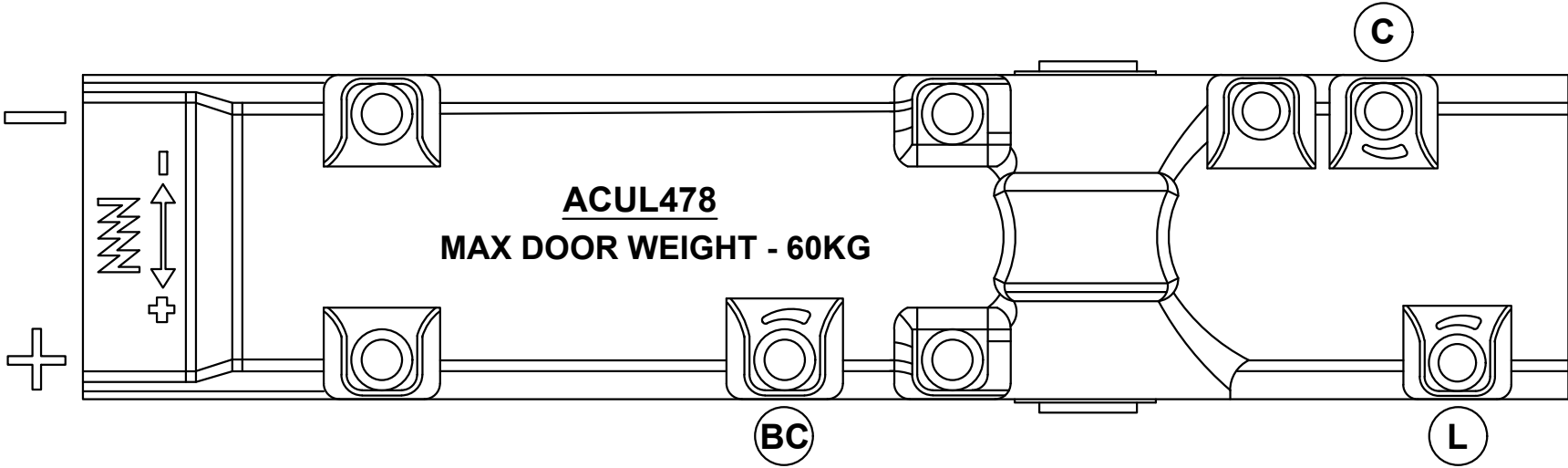
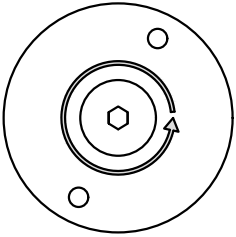


CLOSING SPEED



Size	Leaf Width	Full Turn
	Min	-7
EN1	< 750mm	-5
EN2	< 850mm	-3
EN3	< 950mm	0*
EN4	< 1100mm	+3

* Factory Setting



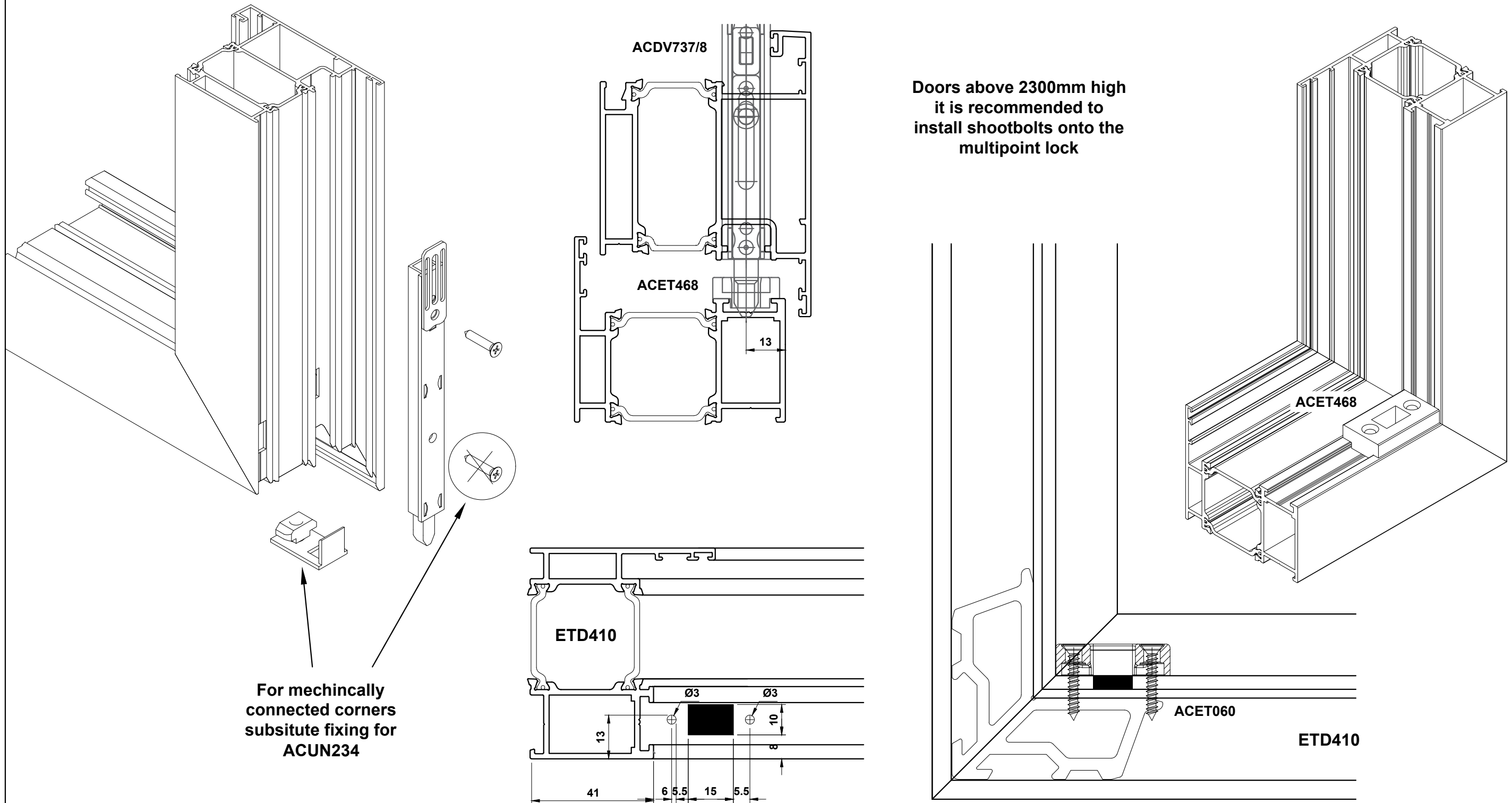
Please consult Technical Support for doors beyond these limitations.

Do Not Scale From This Drawing

Single Door Lock Preparation



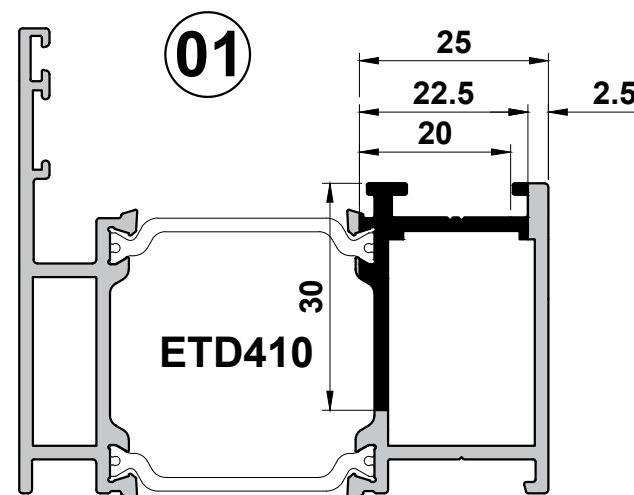
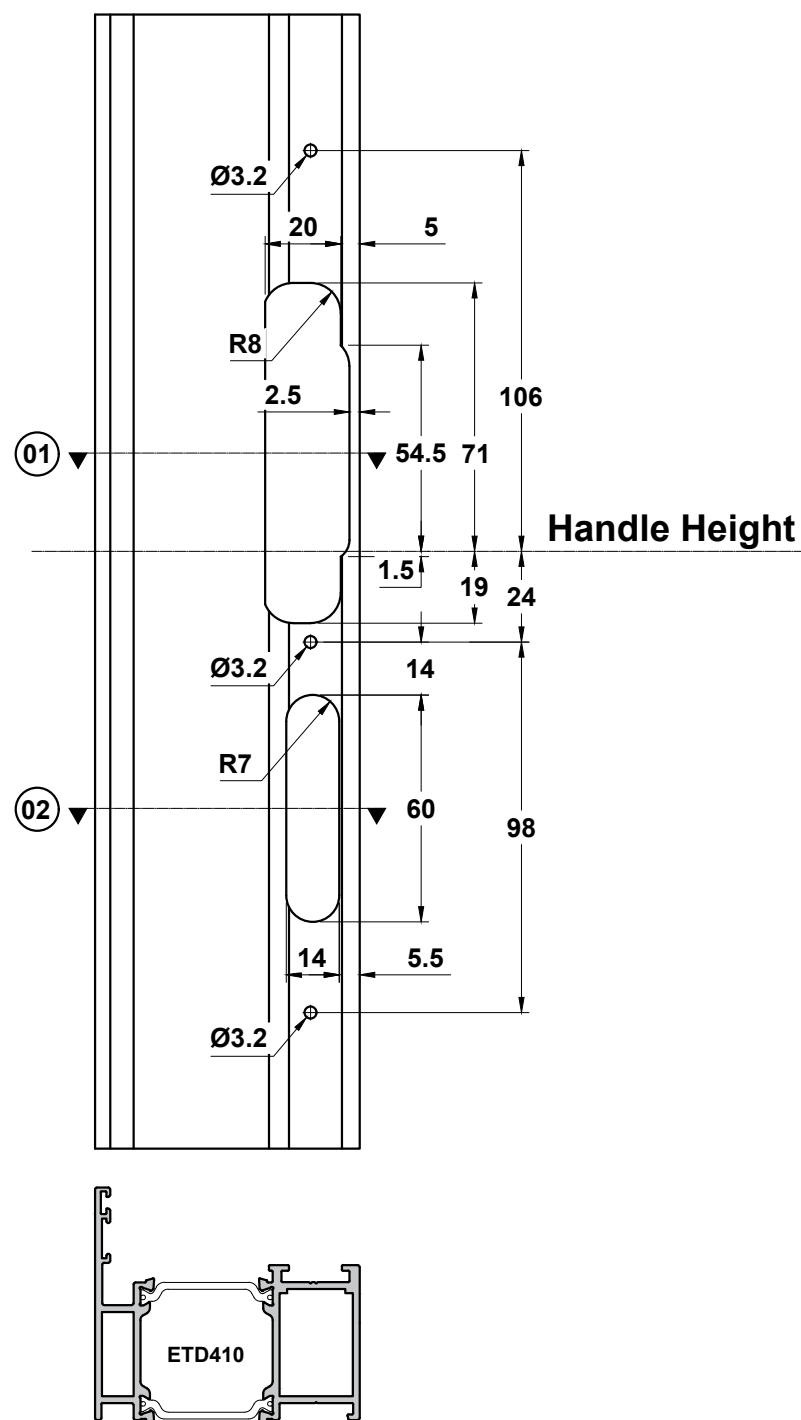
Single Door Shootbolt Detail



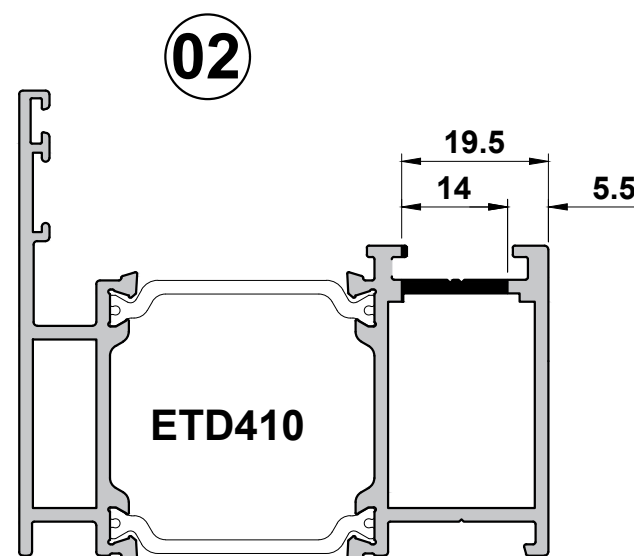
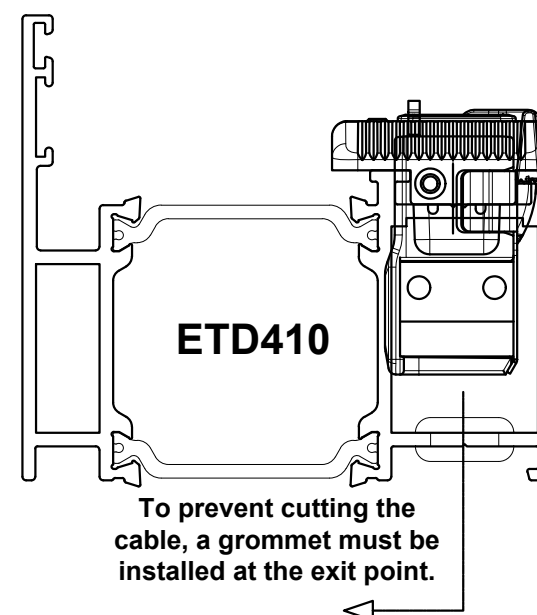
Do Not Scale From This Drawing

Open Out Electric Strike Details

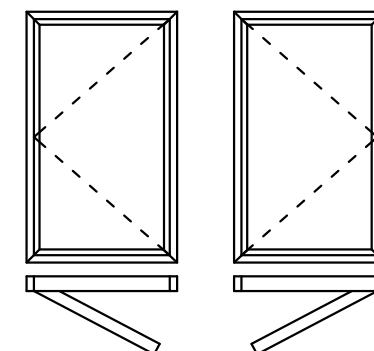
Centre Keep Cut Out



Ensure that the electric strike is powered only by a trained professional.



Keep Handing Guide Viewed Externally

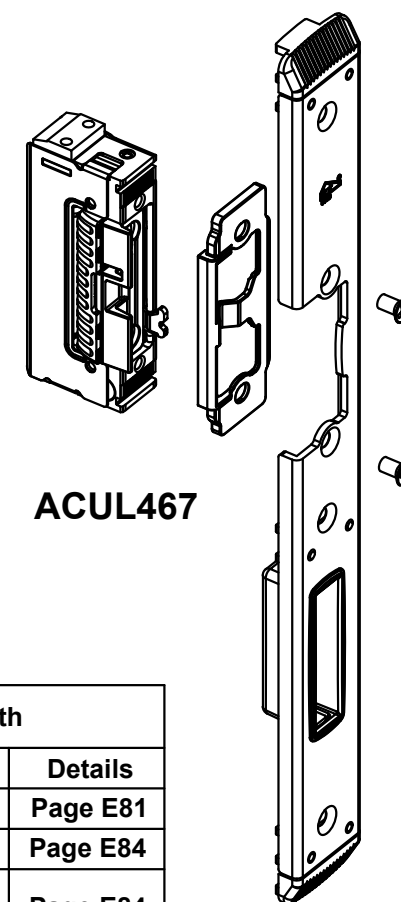


Left Hand Open Out
ACUL416

Right Hand Open Out
ACUL417

Max. Wire Size:
Solid: 2.5mm²
Fine-Stranded (flexible): 1.5mm²
Fine-Stranded (with ferrule) : 1.5mm²

ACUL465 - 12V DC FAIL SAFE
ACUL466 - 12V DC FAIL SECURE



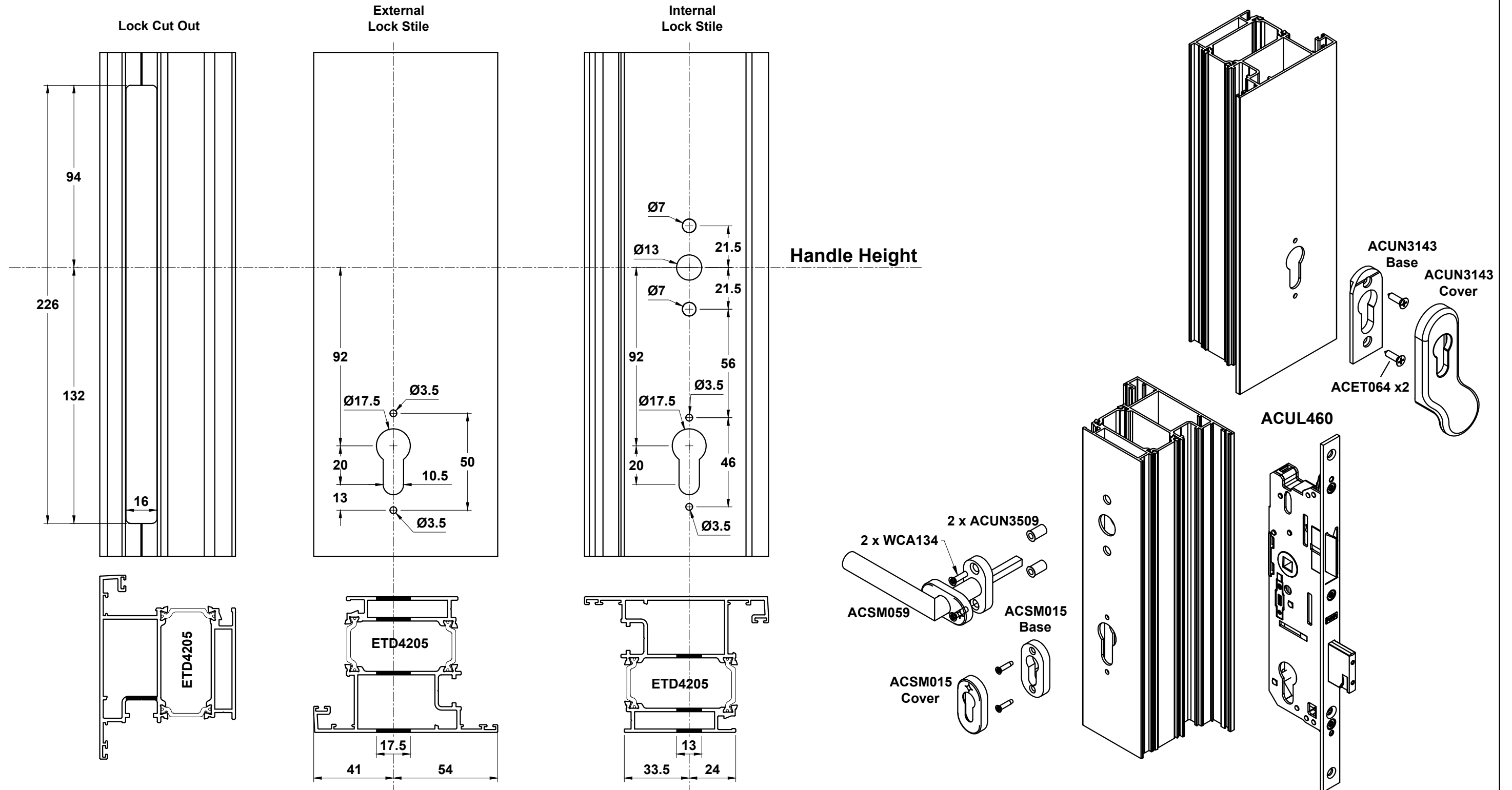
ACUL467

ACUL417

Can Be Used With		
Hardware	Type	Details
Lock	Key Wind	Page E81
Lock	Single Point	Page E84
Handle	Lever / Cylinder Pull	Page E84
Handle	Straight Pull Handle	Page E26

Do Not Scale From This Drawing

Single Point Lock & Internal Lever Handle Preparation

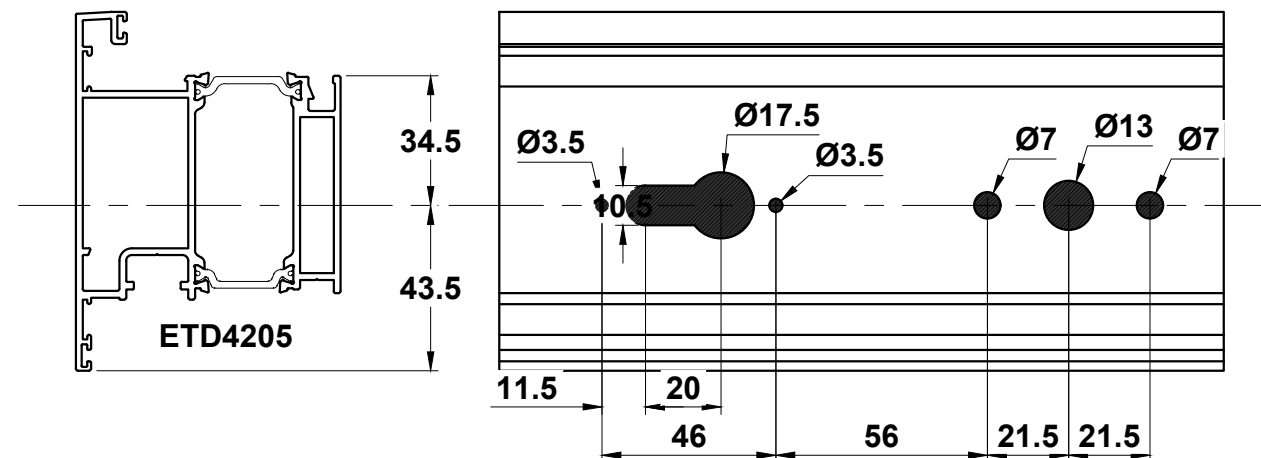
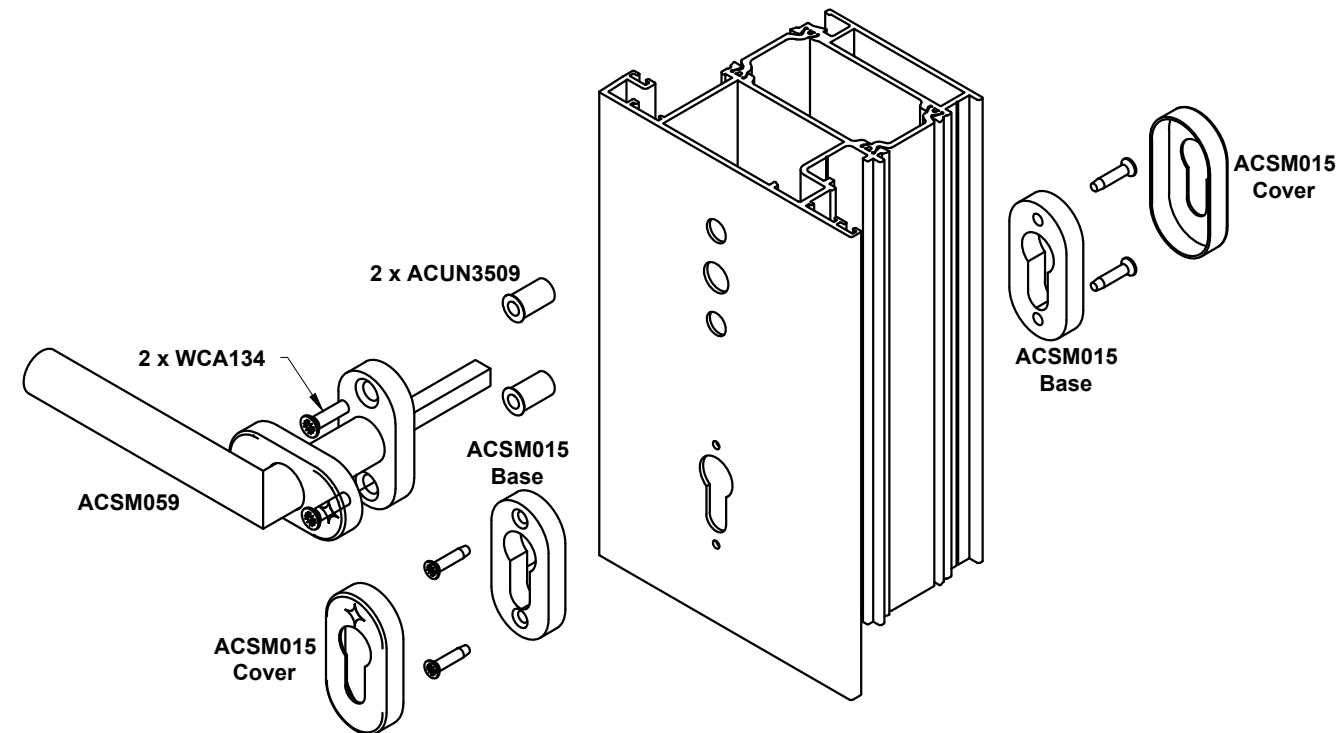


Do Not Scale From This Drawing

Stainless Steel Hardware - ACSM013, ACSM015, ACSM058 & ACSM059 Fitting Detail

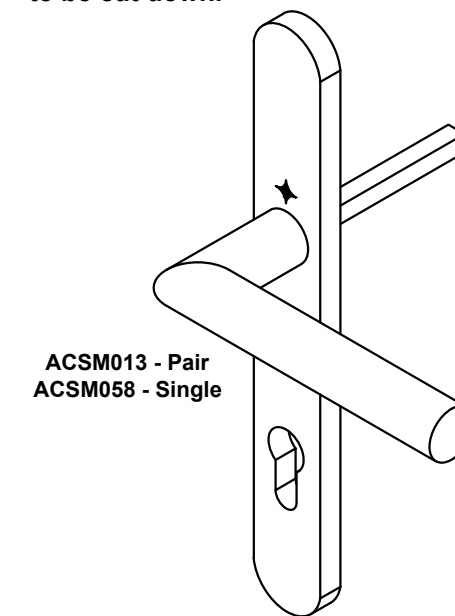
Please Note:

ACSM059 is compatible with slam locks and key operated locks only.
Slam locks must not have an external lever handle.



Please Note:

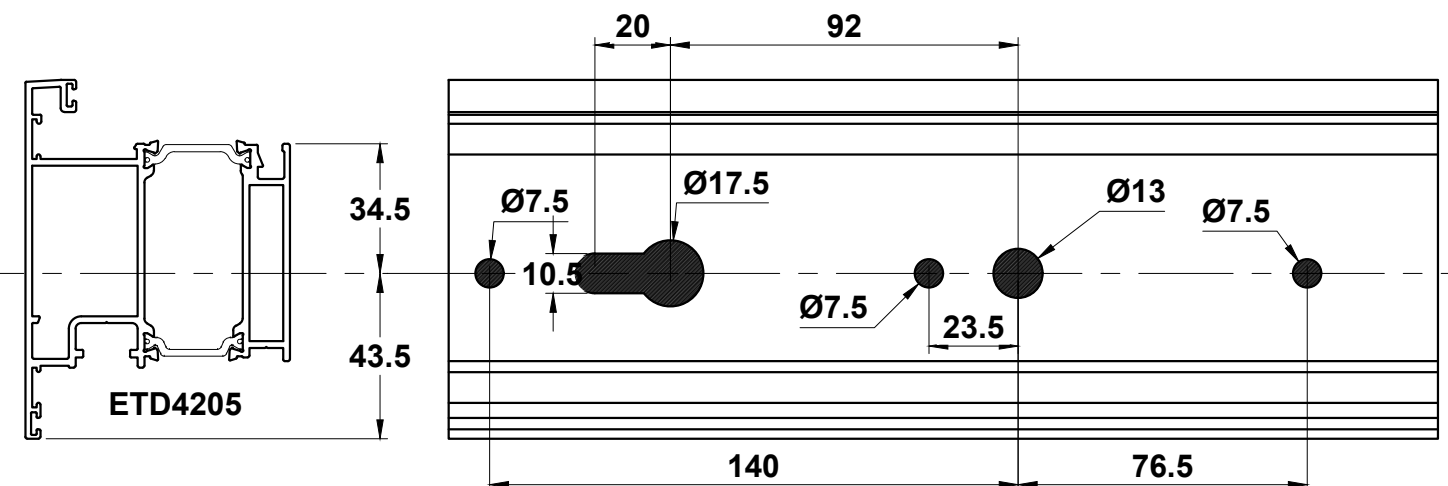
ACSM058 is compatible with all locks.
Slam locks must not have an external lever handle therefore require WCA134 & ACUN3509 for single side fixing and the spindle will need to be cut down.



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

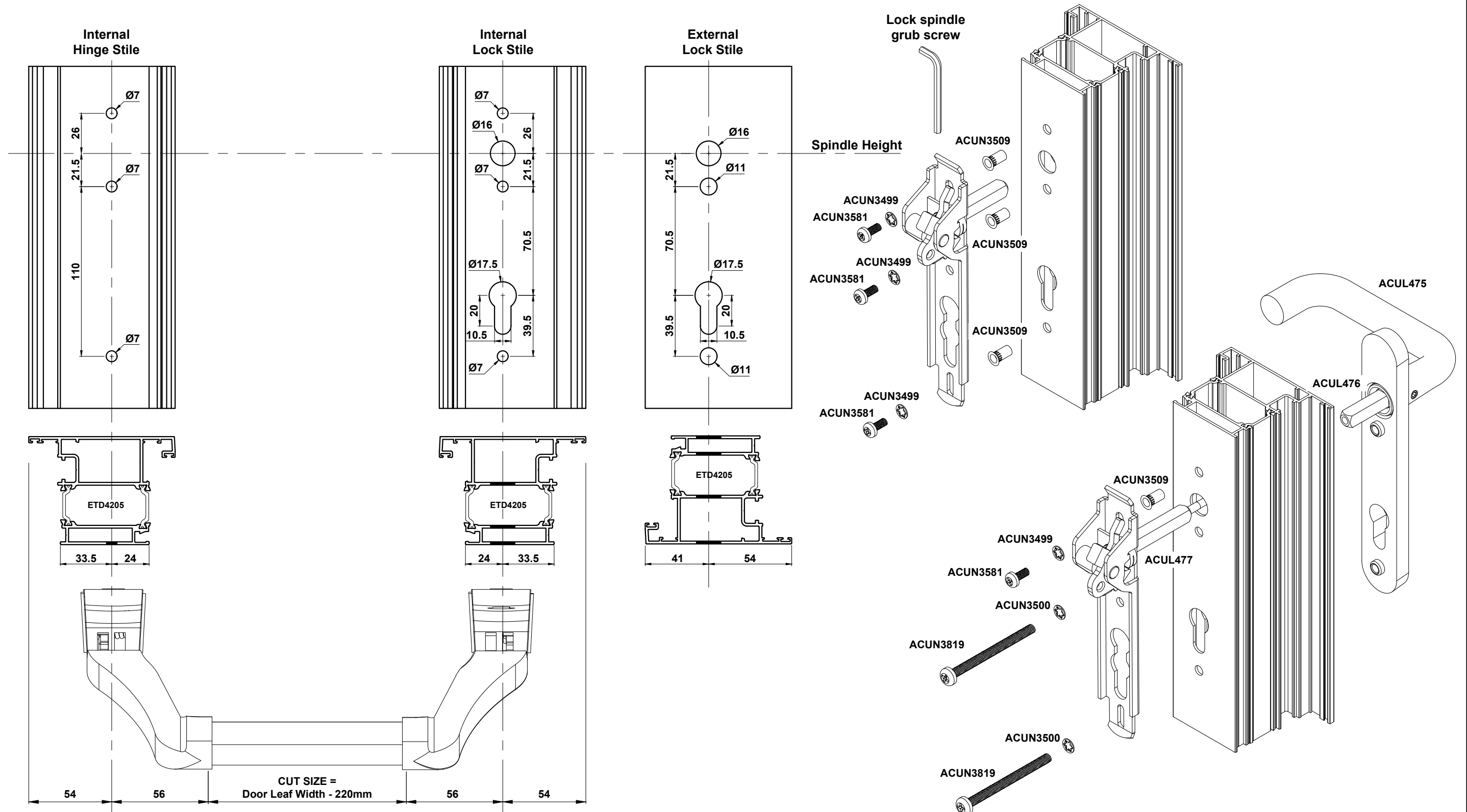
Please Note:

ACSM013SS pack contains;
2 x Universal Backplate & Lever
2 x Cover Plate
2 x Bolt Receiver Sleeve
2 x 40mm M5 Machine Screws
2 X 60mm M5 Machine Screws
1 x 3mm Allen Key
1 x 170mm Spindle



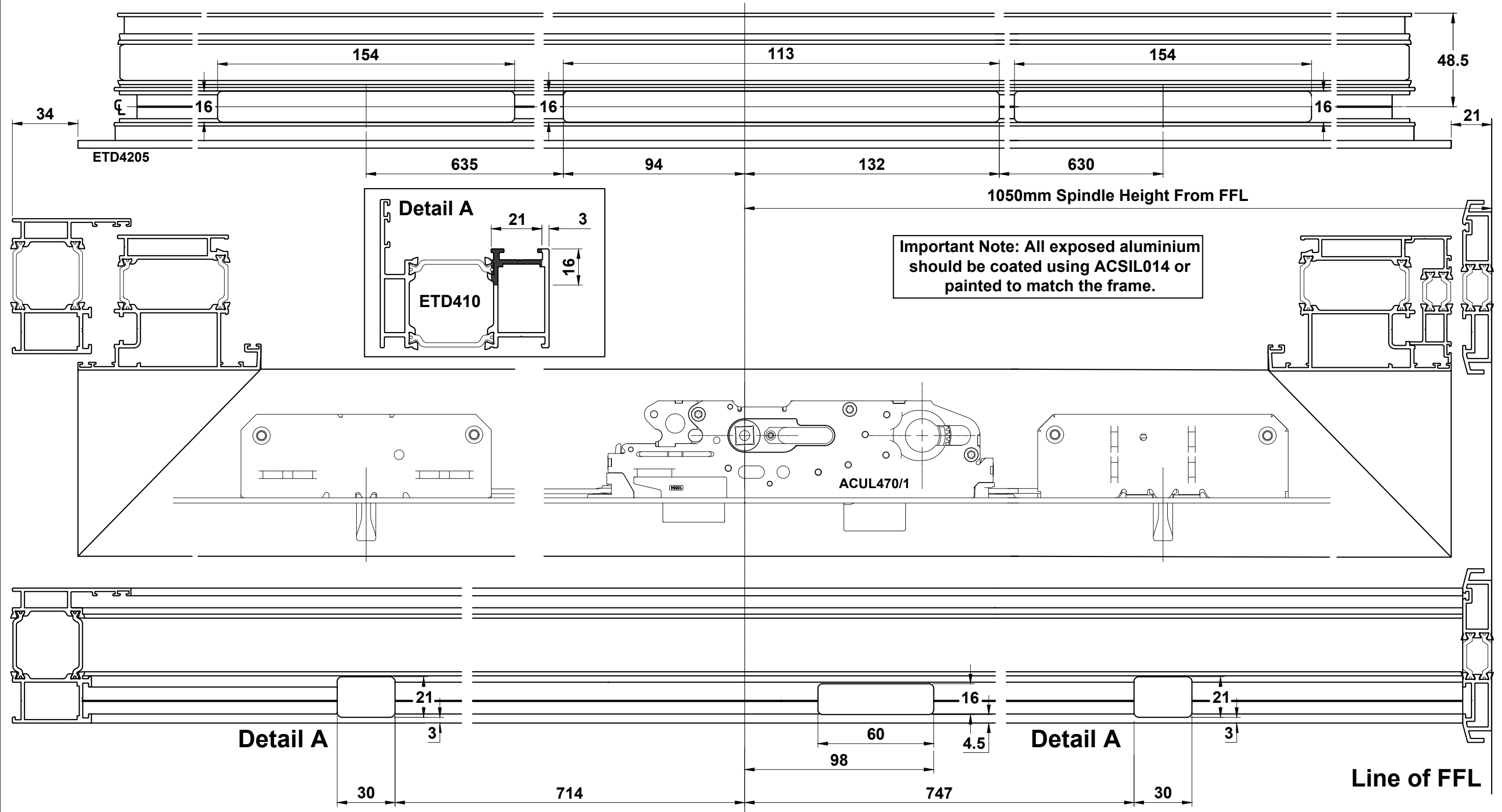
Do Not Scale From This Drawing

Panic Bar Preparation



Do Not Scale From This Drawing

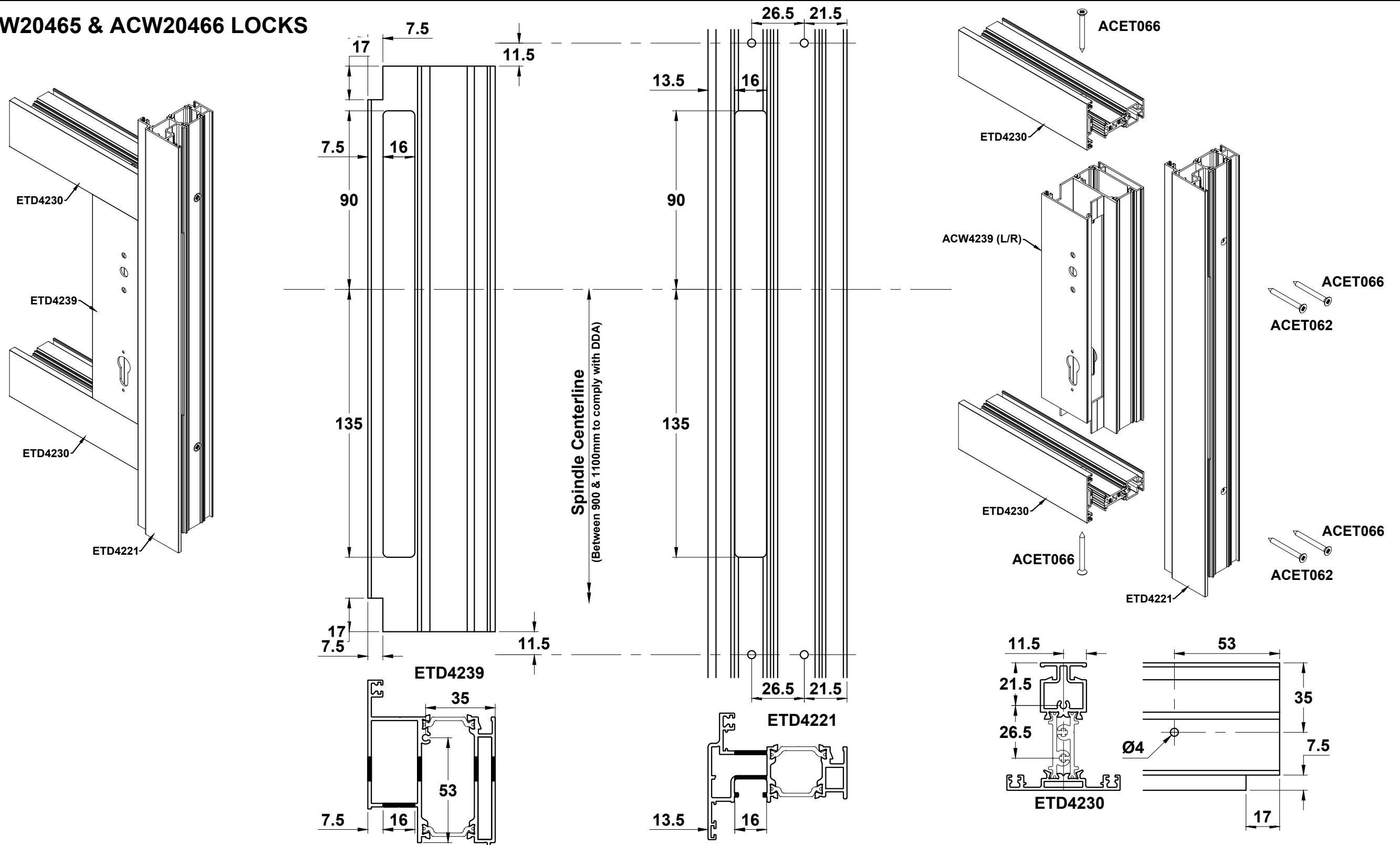
Panic Lock Preparation for Low Ramp Threshold



Do Not Scale From This Drawing

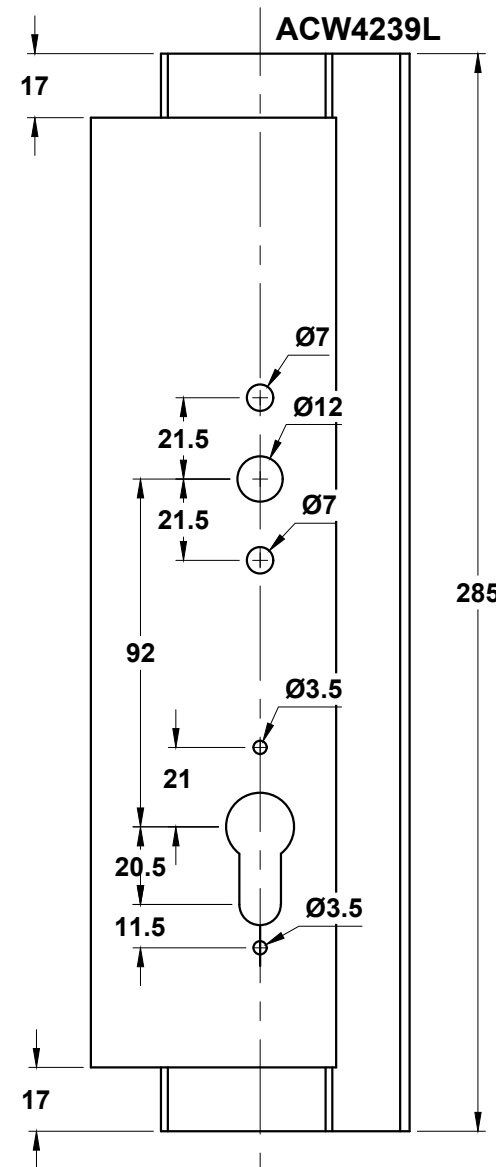
Heritage Open Out Door Lock Preparation

FOR ACW20465 & ACW20466 LOCKS

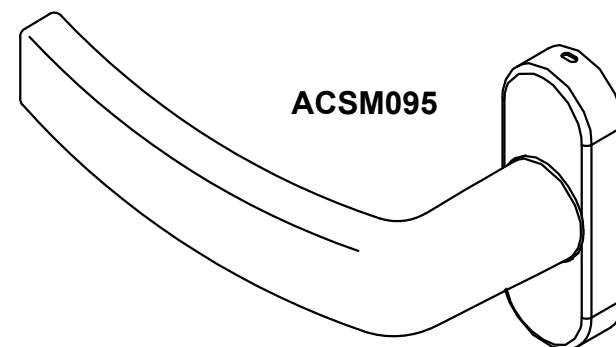


Do Not Scale From This Drawing

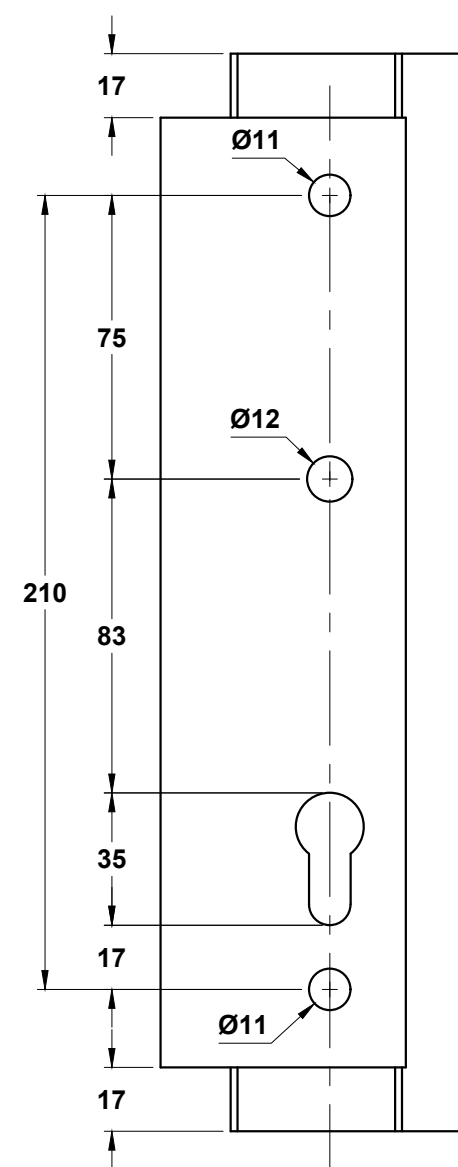
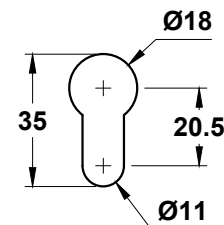
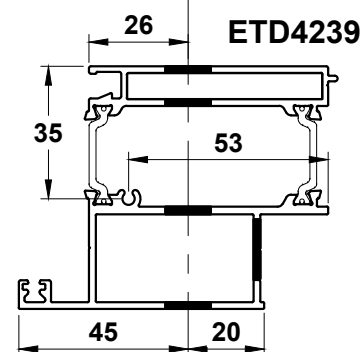
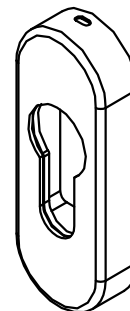
Heritage Open Out Door Handle Preparations



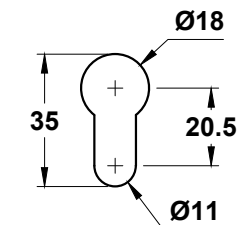
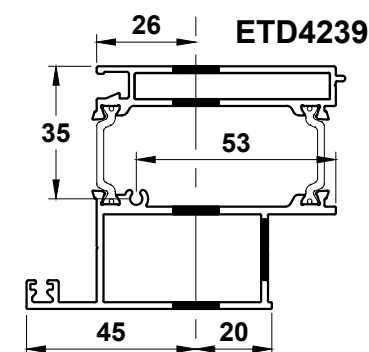
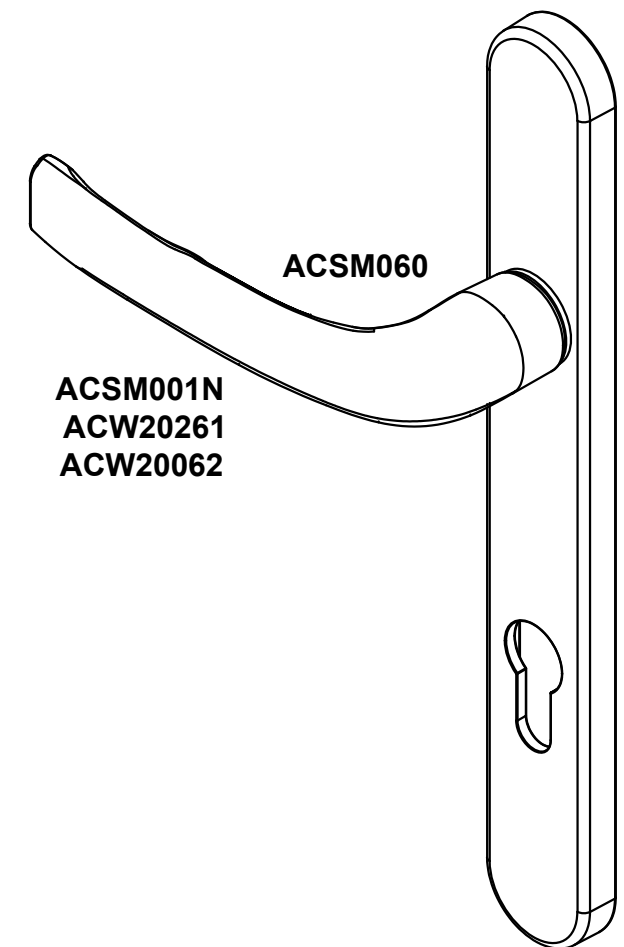
Lever Handle & Oval Rose



ACW4239L/R
Pre Prepared
Lock Casing

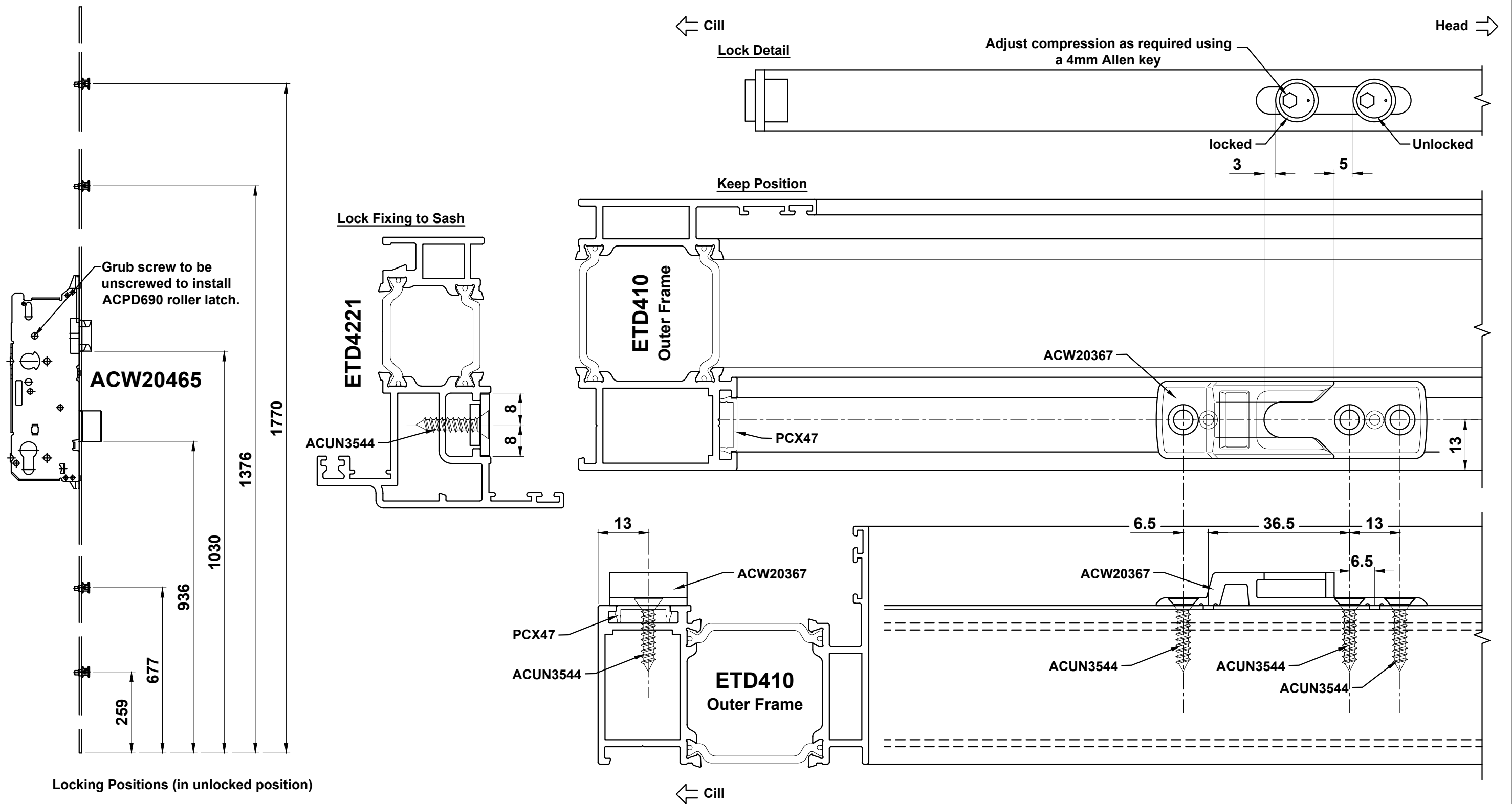


Long Escutcheon Handles



Do Not Scale From This Drawing

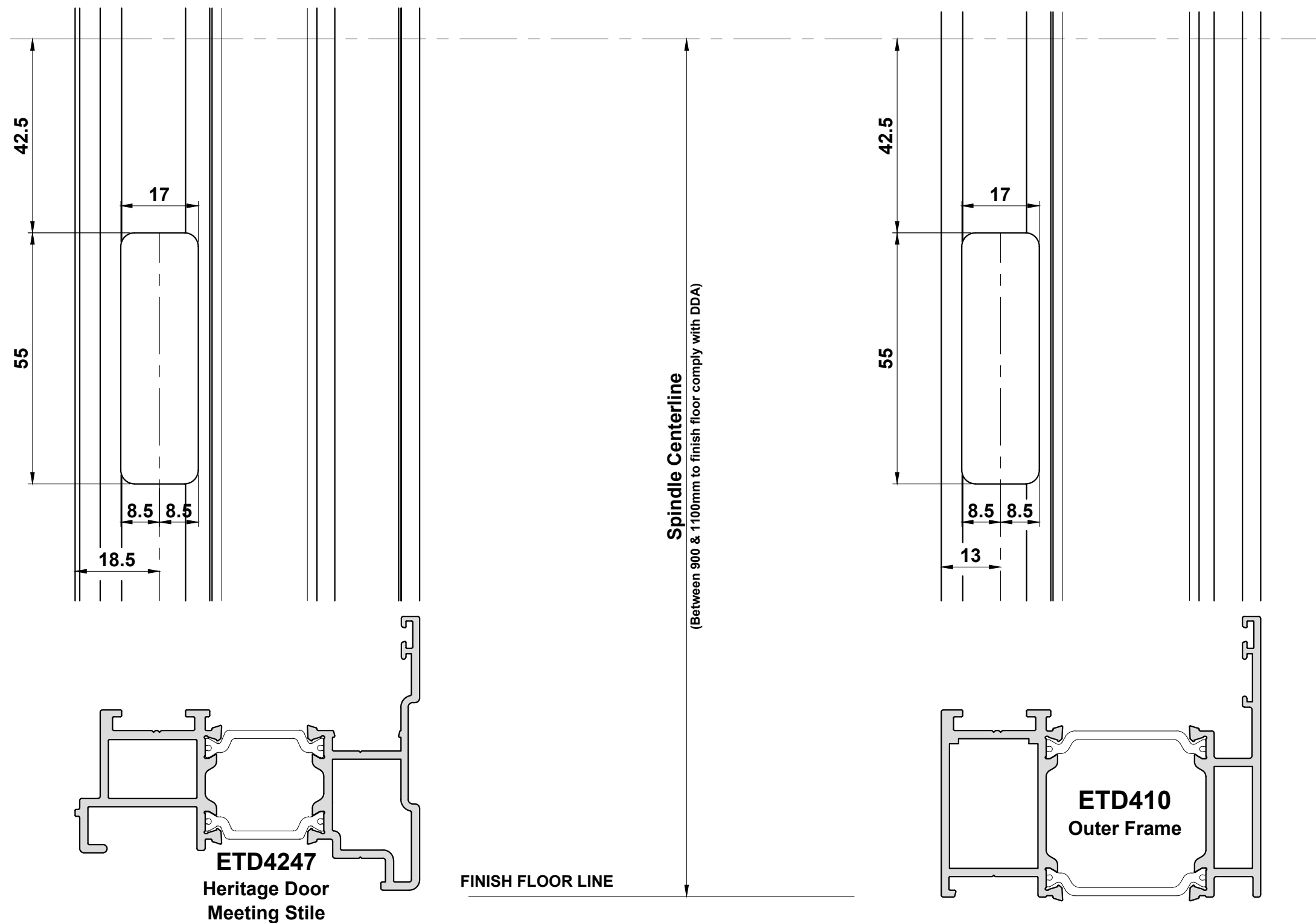
Heritage ACW20367 Door Keep Position Guide



Do Not Scale From This Drawing

Heritage ACW20066 L/R Door Centre Keep Preparation

ACW20066 Open Out Centre Keep

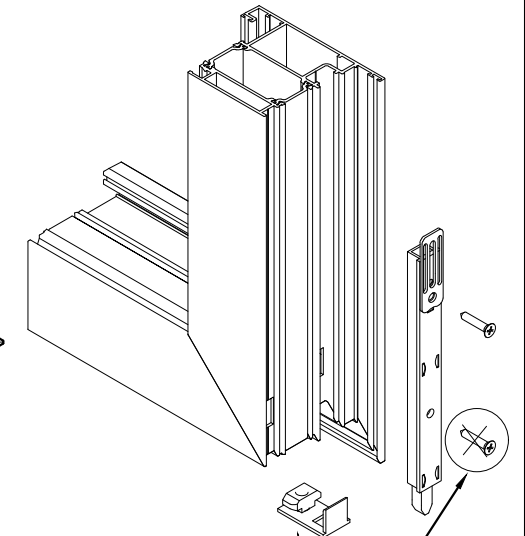
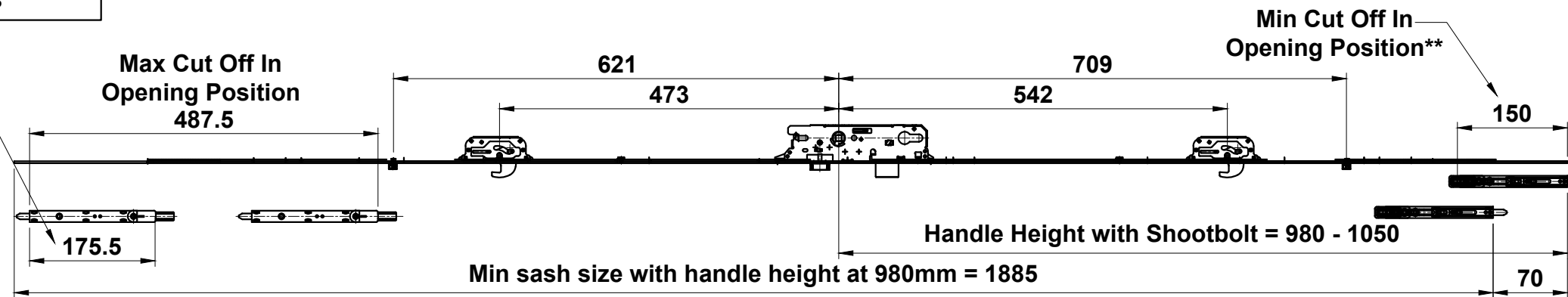


Do Not Scale From This Drawing

Double Door Lift Lever Shootbolt Layout

Note: ACDV742 & ACDV744 extensions may be used with all locks

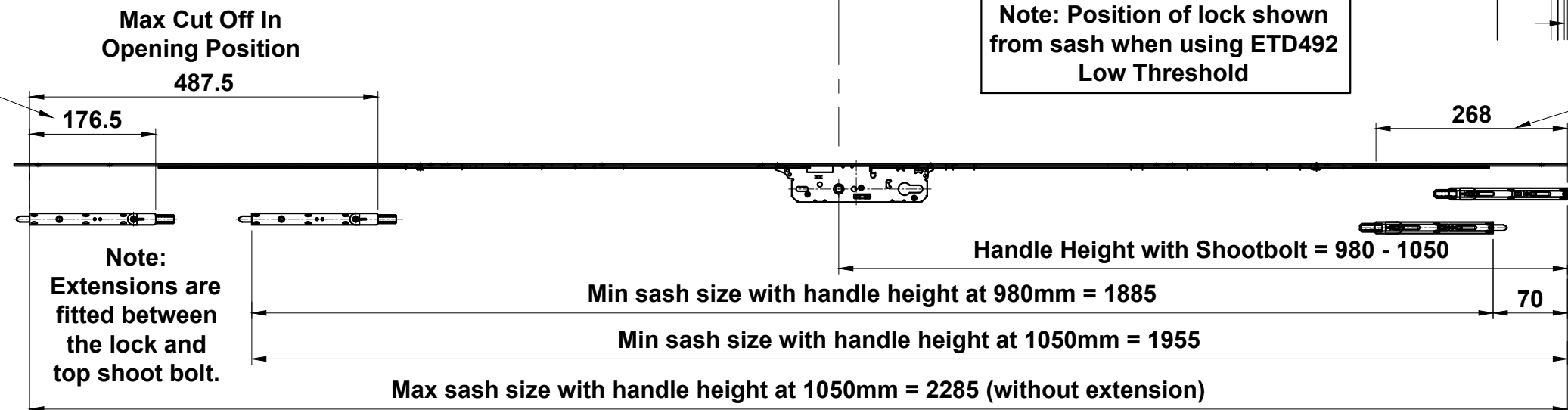
Min Cut Off In Opening Position**
ACUL277 & ACUL278
Short Primary Door Lock



For mechanically connected corners substitute fixing for ACUN234

ETD410 = 34
ETD492 = 11.5
ETD495 = 21

Min Cut Off In Opening Position**
ACUL276
Short Secondary Door Lock

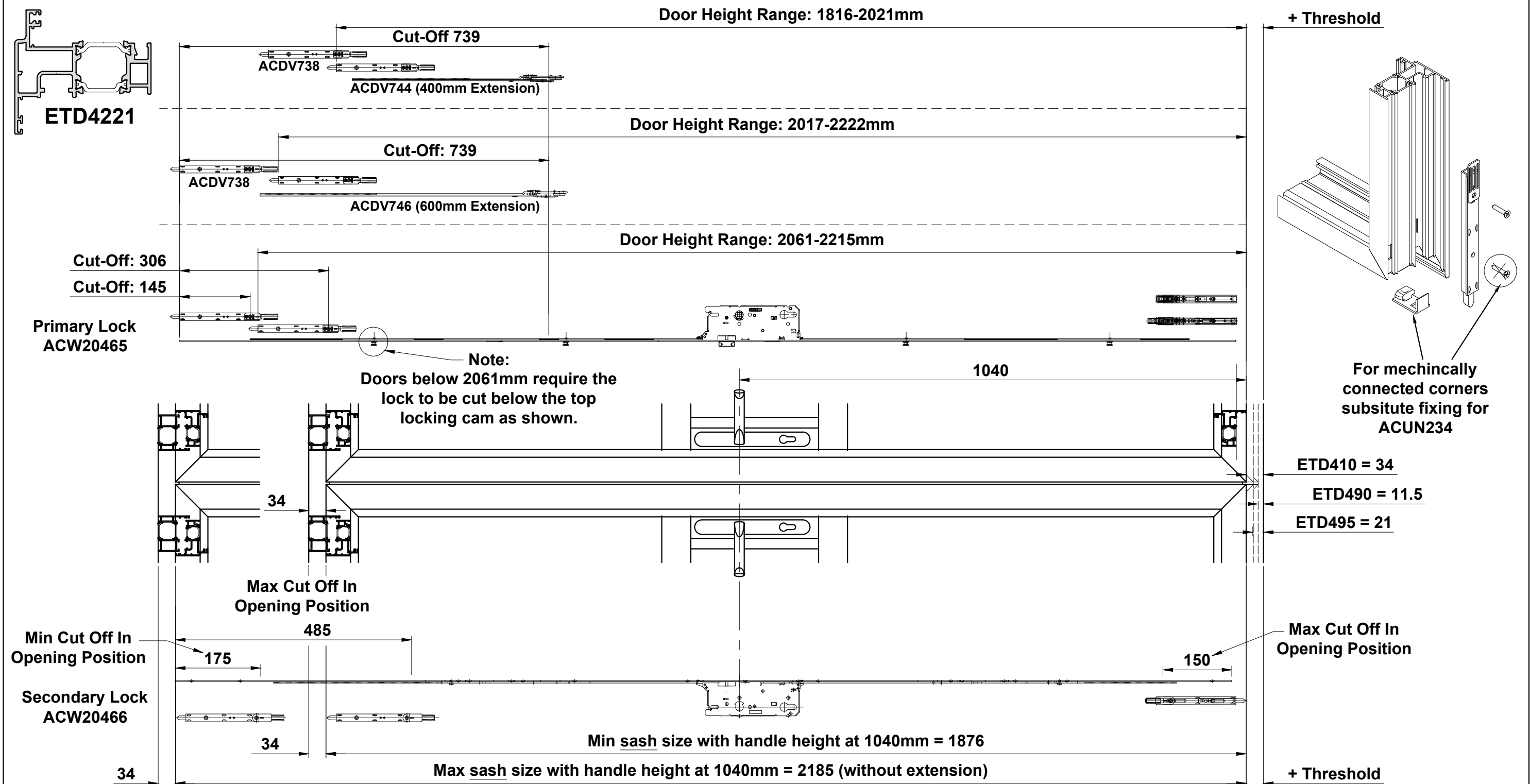


Note: Position of lock shown from sash when using ETD492 Low Threshold

*Maximum sash height is 2500mm. Sizes shown here only indicate sizes with ACDV744.

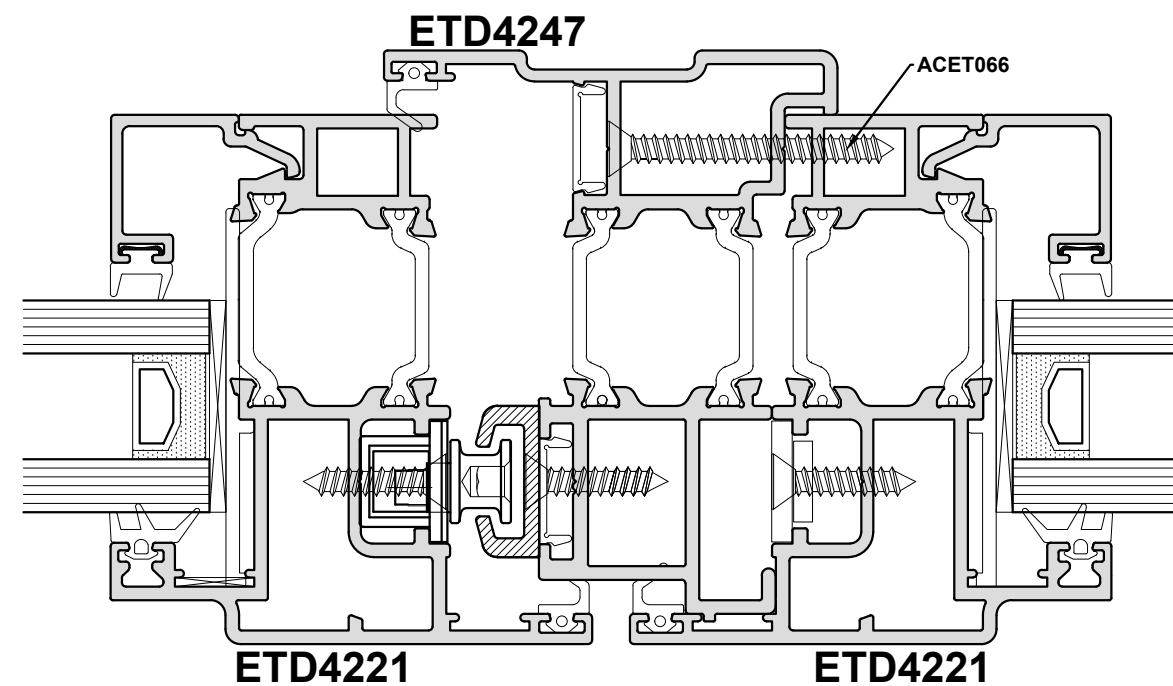
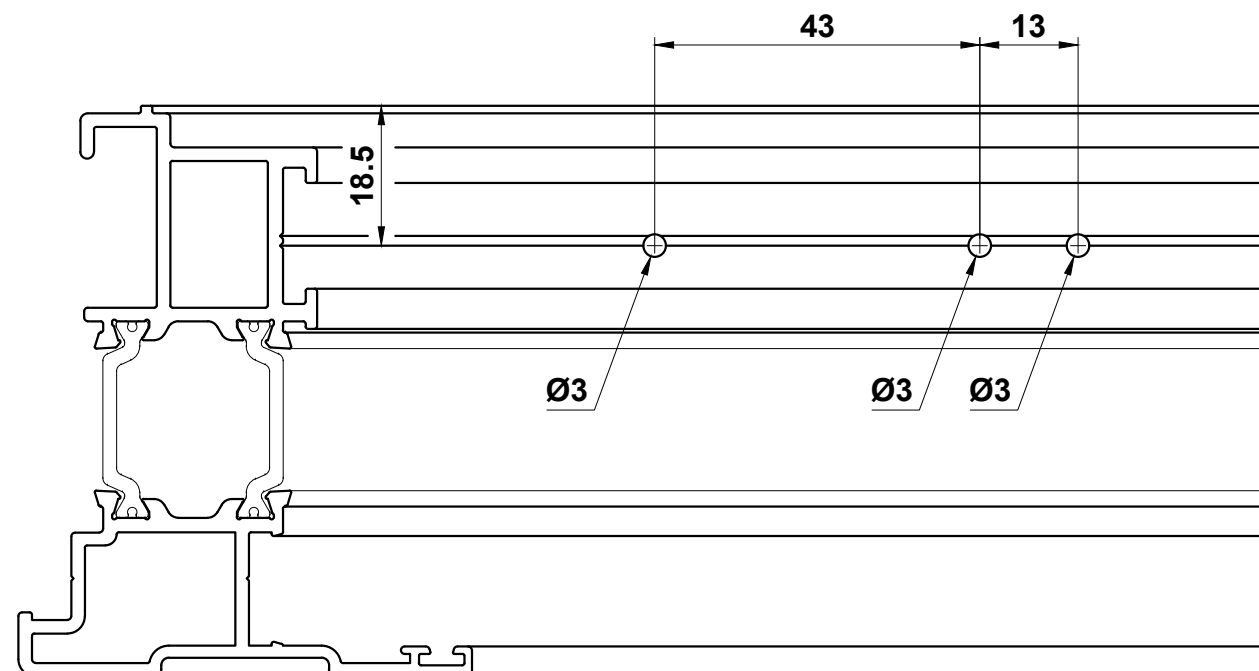
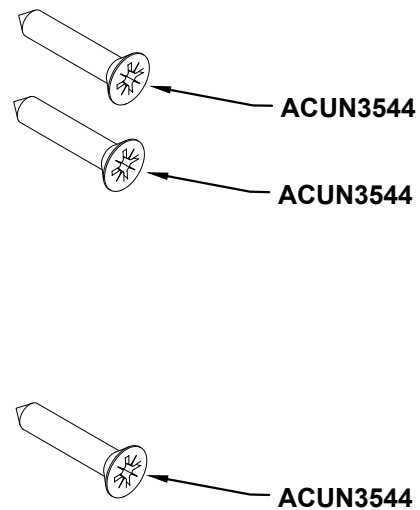
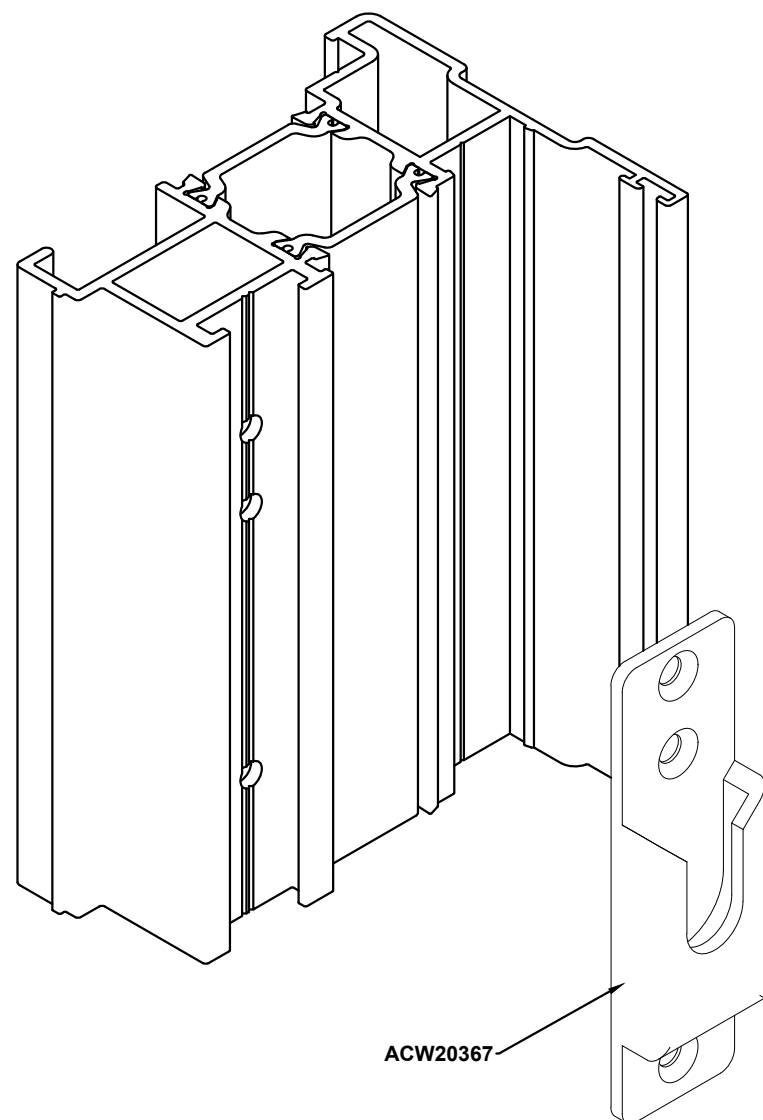
Do Not Scale From This Drawing

Heritage Double Door Lift Lever Shootbolt Layout



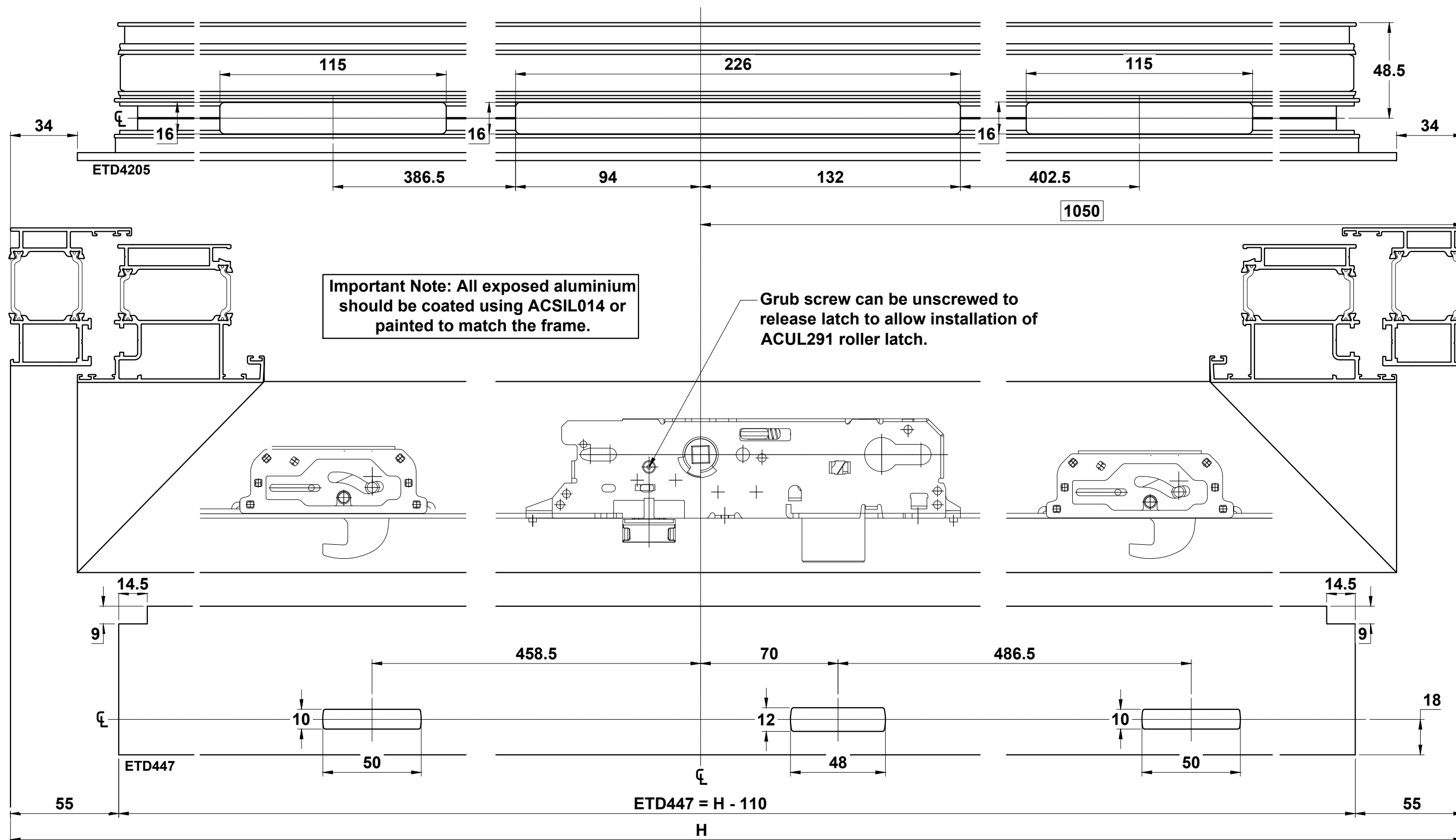
Do Not Scale From This Drawing

Heritage ACW20367 Floating Mullion Installation



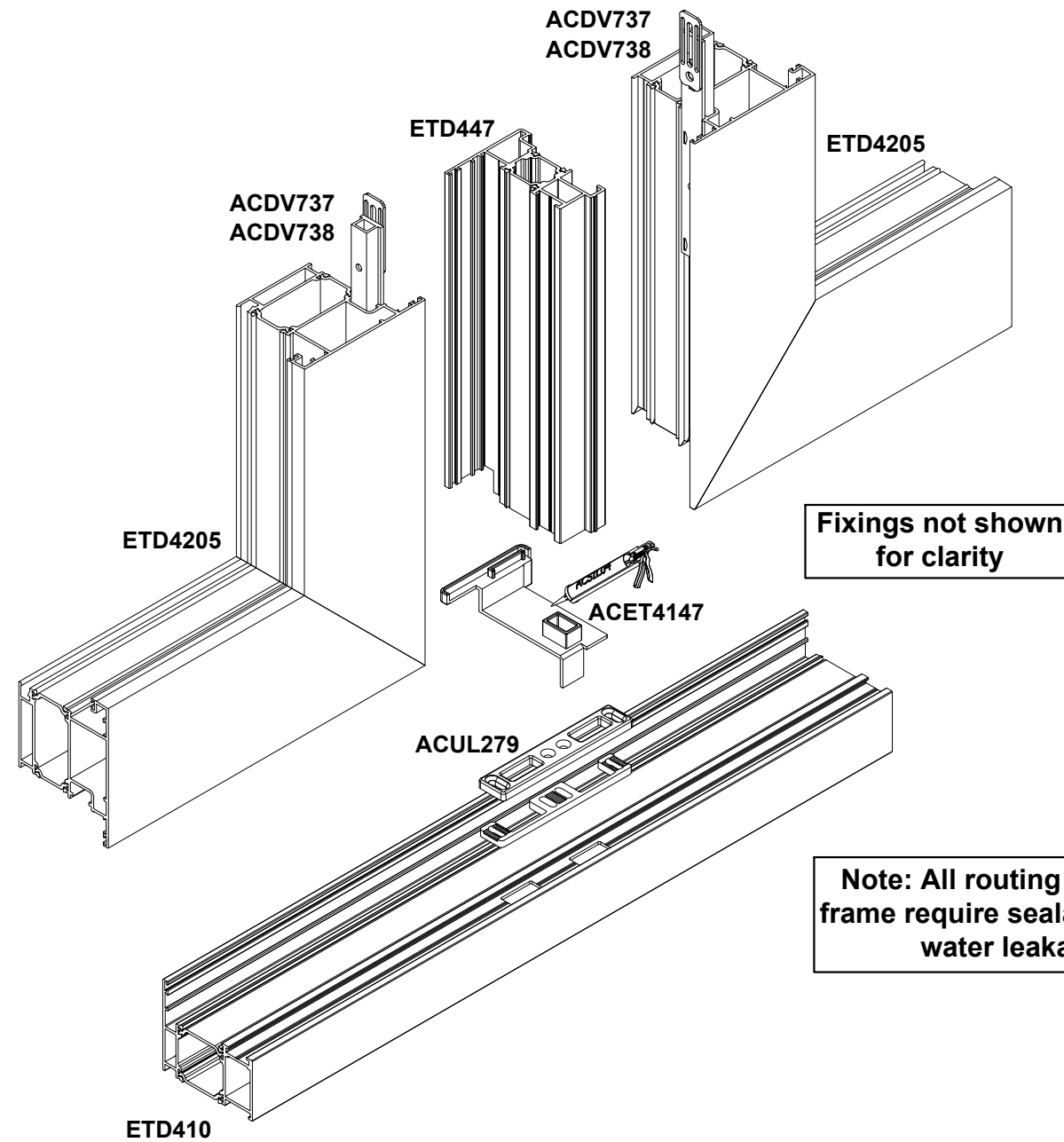
Do Not Scale From This Drawing

Double Door Lift Lever Lock Preparation for Full Frame

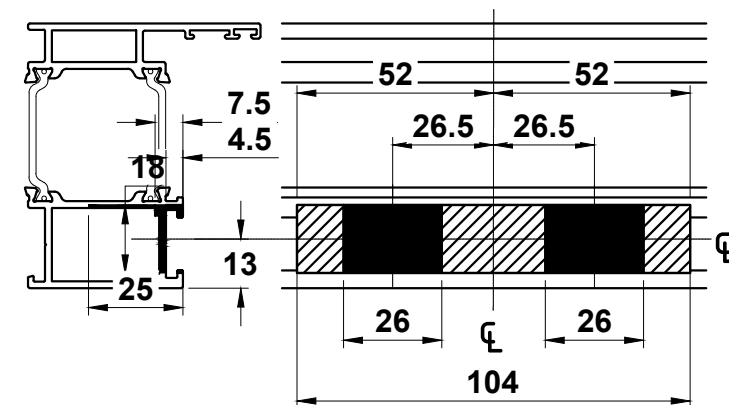
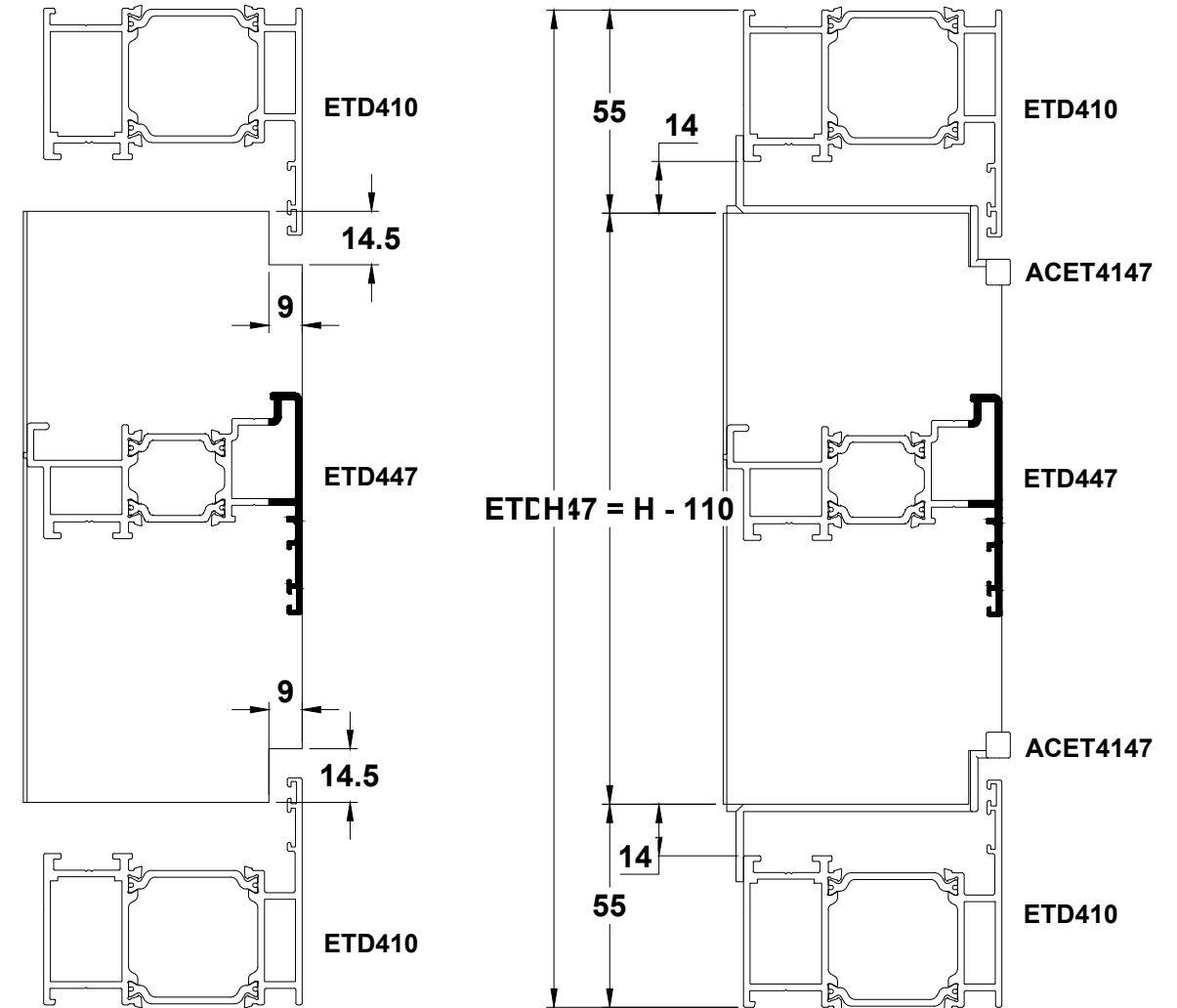


Do Not Scale From This Drawing

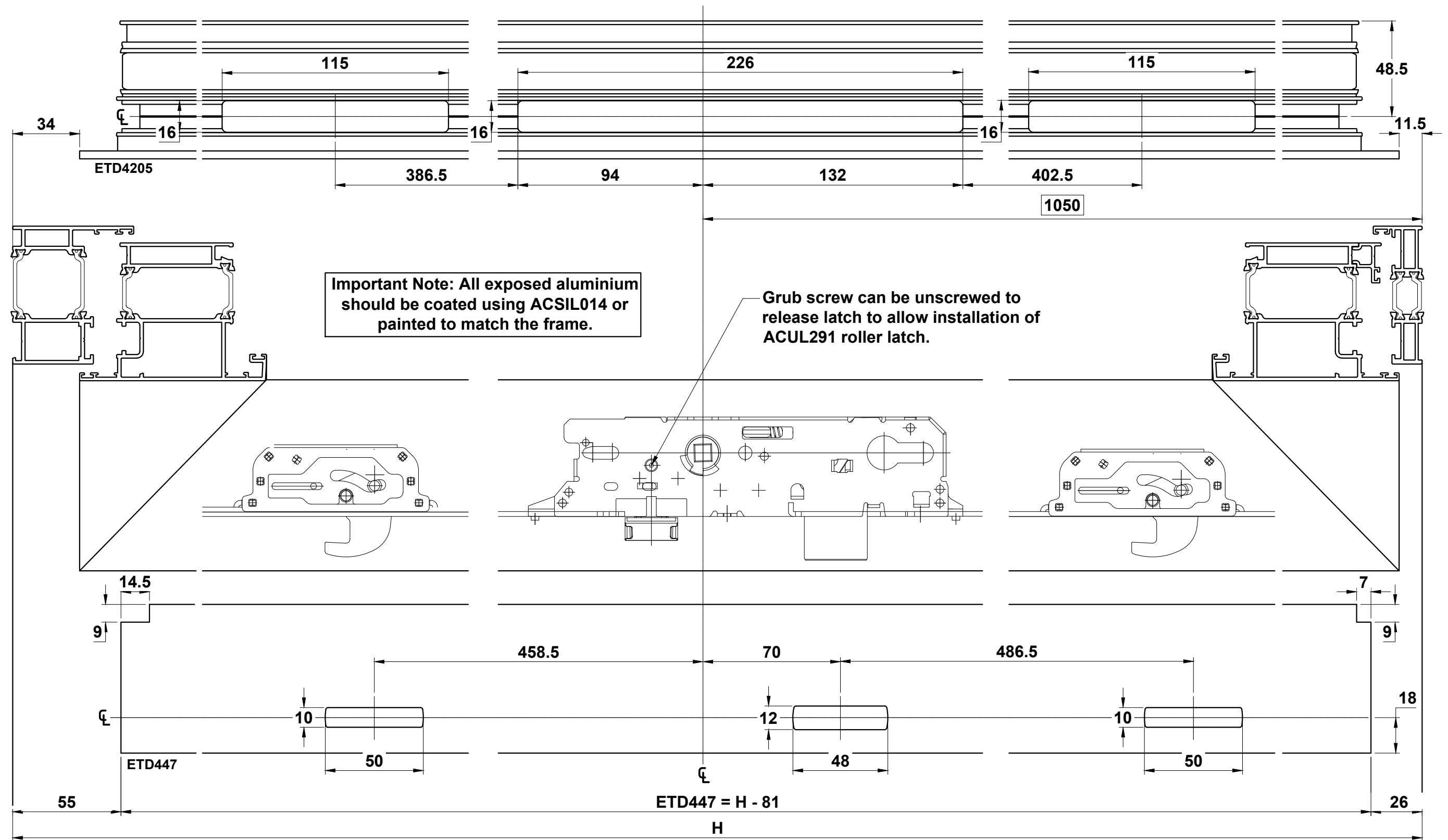
Double Door Lift Lever Meeting Stile Assembly for Full Frame



Note: All routing on outer frame require sealant to stop water leakage

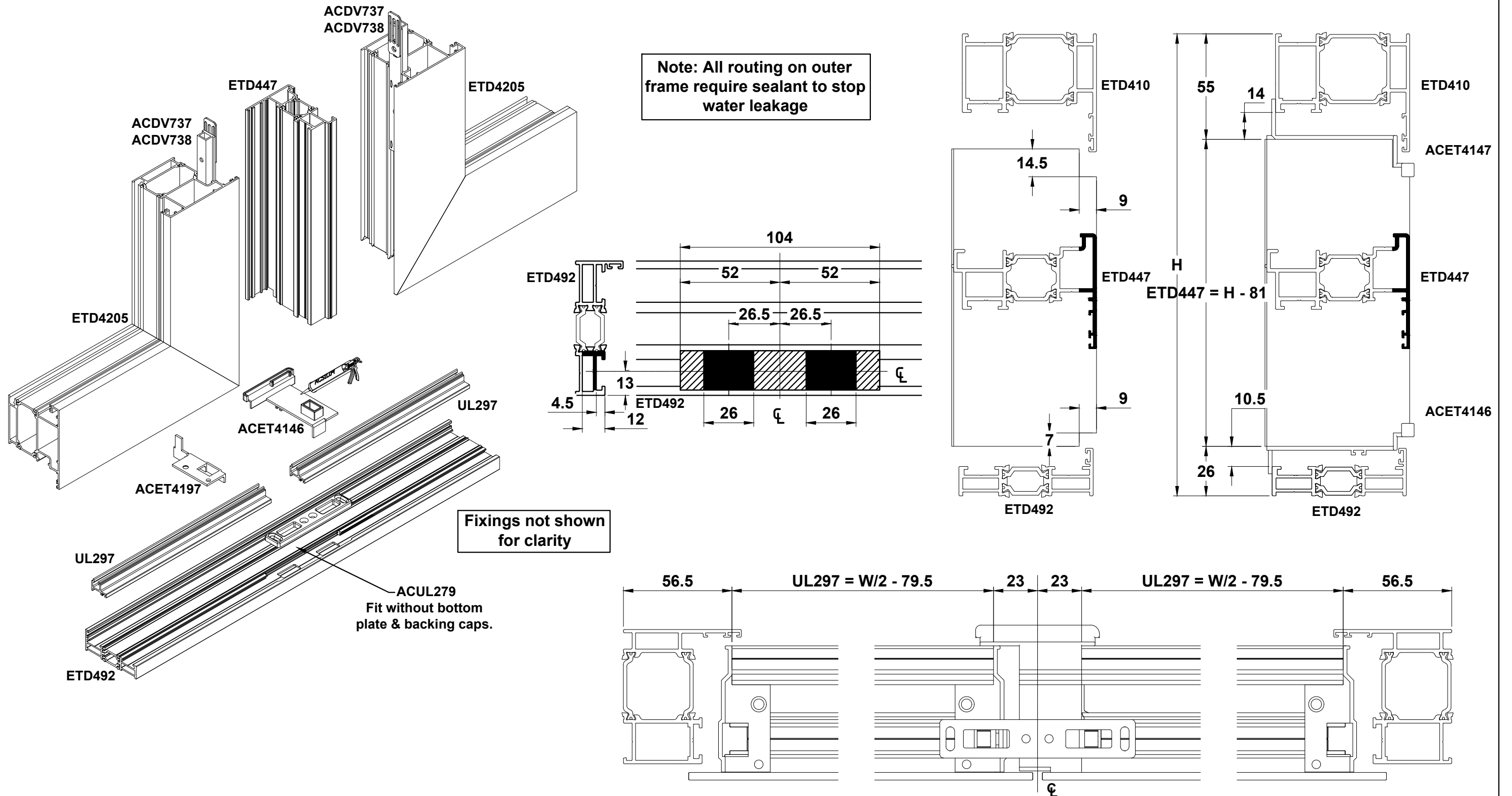


Double Door Lift Lever Lock Preparation for Low Rebate Threshold



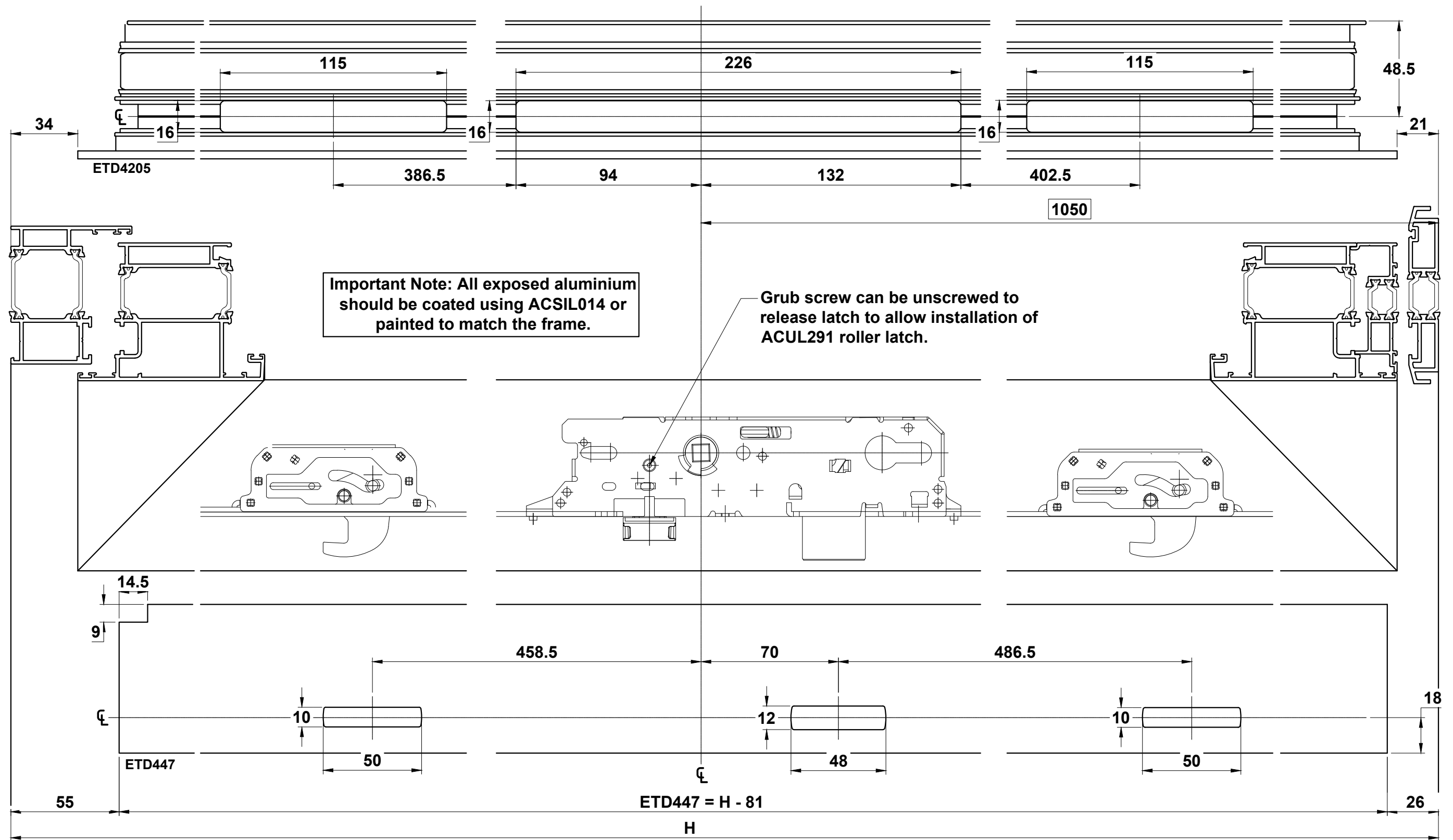
Do Not Scale From This Drawing

Double Door Lift Lever Meeting Stile Assembly for Low Rebate Threshold

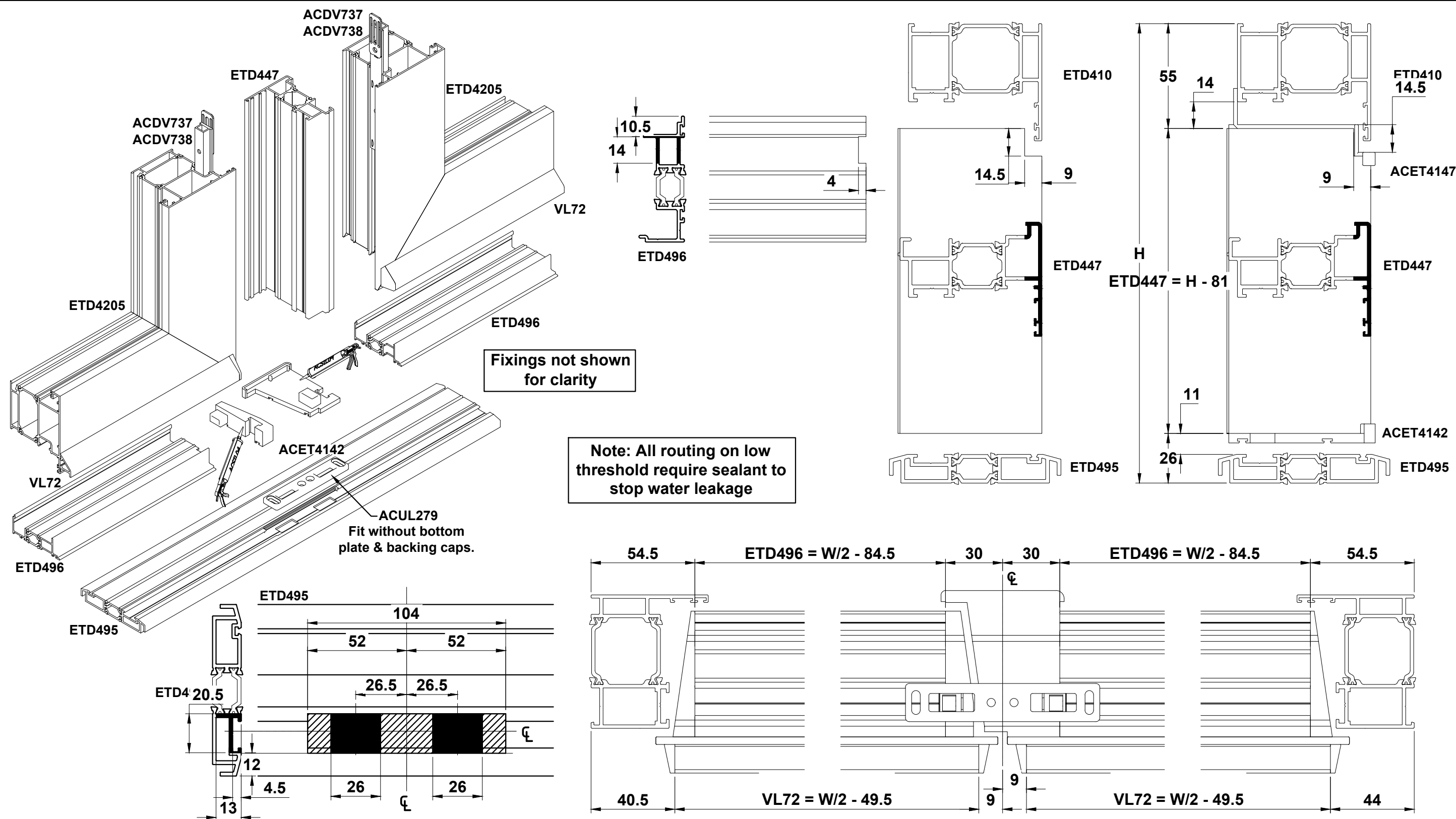


Do Not Scale From This Drawing

Double Door Lift Lever Lock Preparation for Low Ramp Threshold

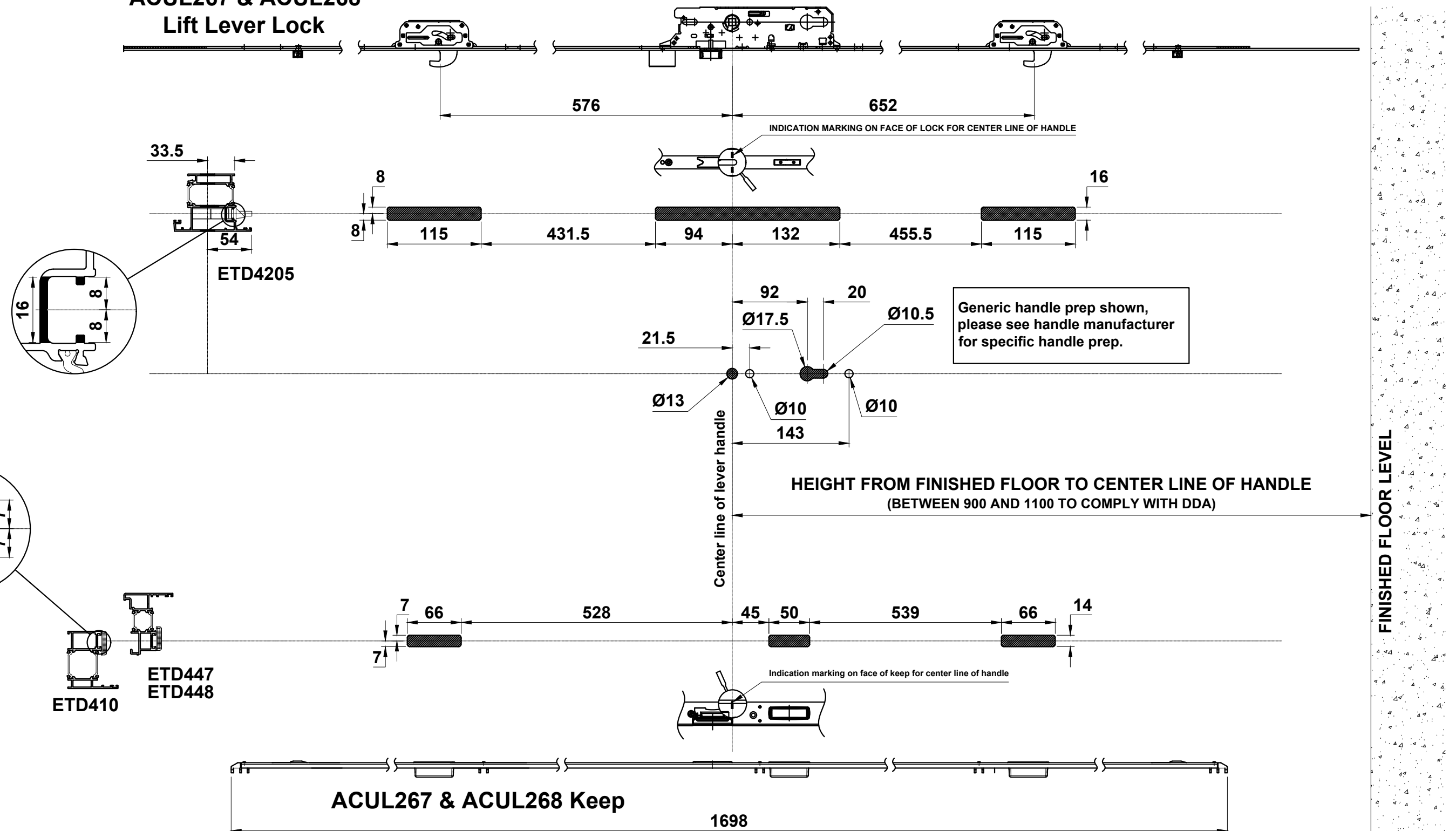


Double Door Lift Lever Meeting Stile Assembly for Low Ramp Threshold

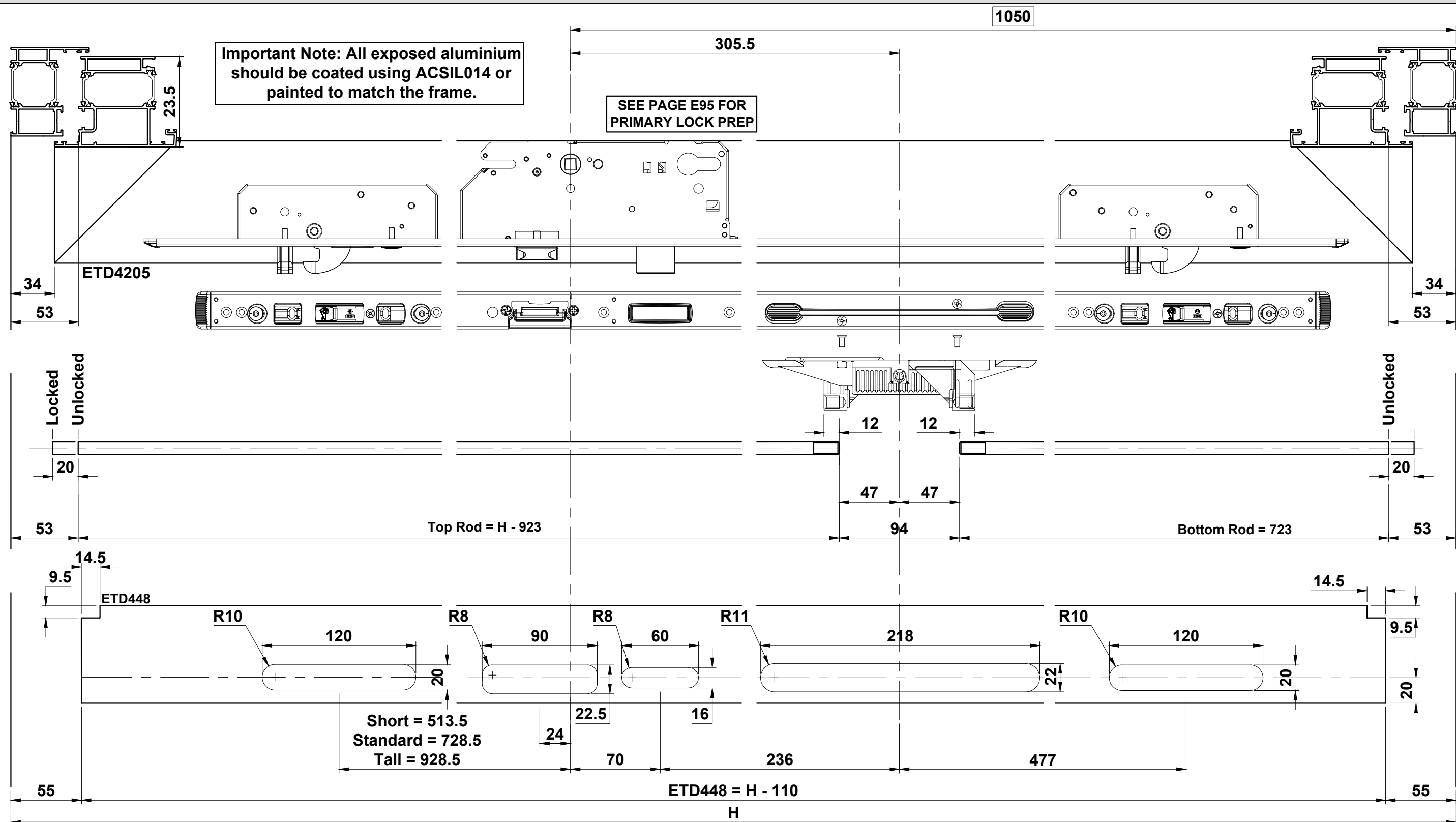


ACUL267 & ACUL268 Lift Lever Lock Preparation

ACUL267 & ACUL268 Lift Lever Lock

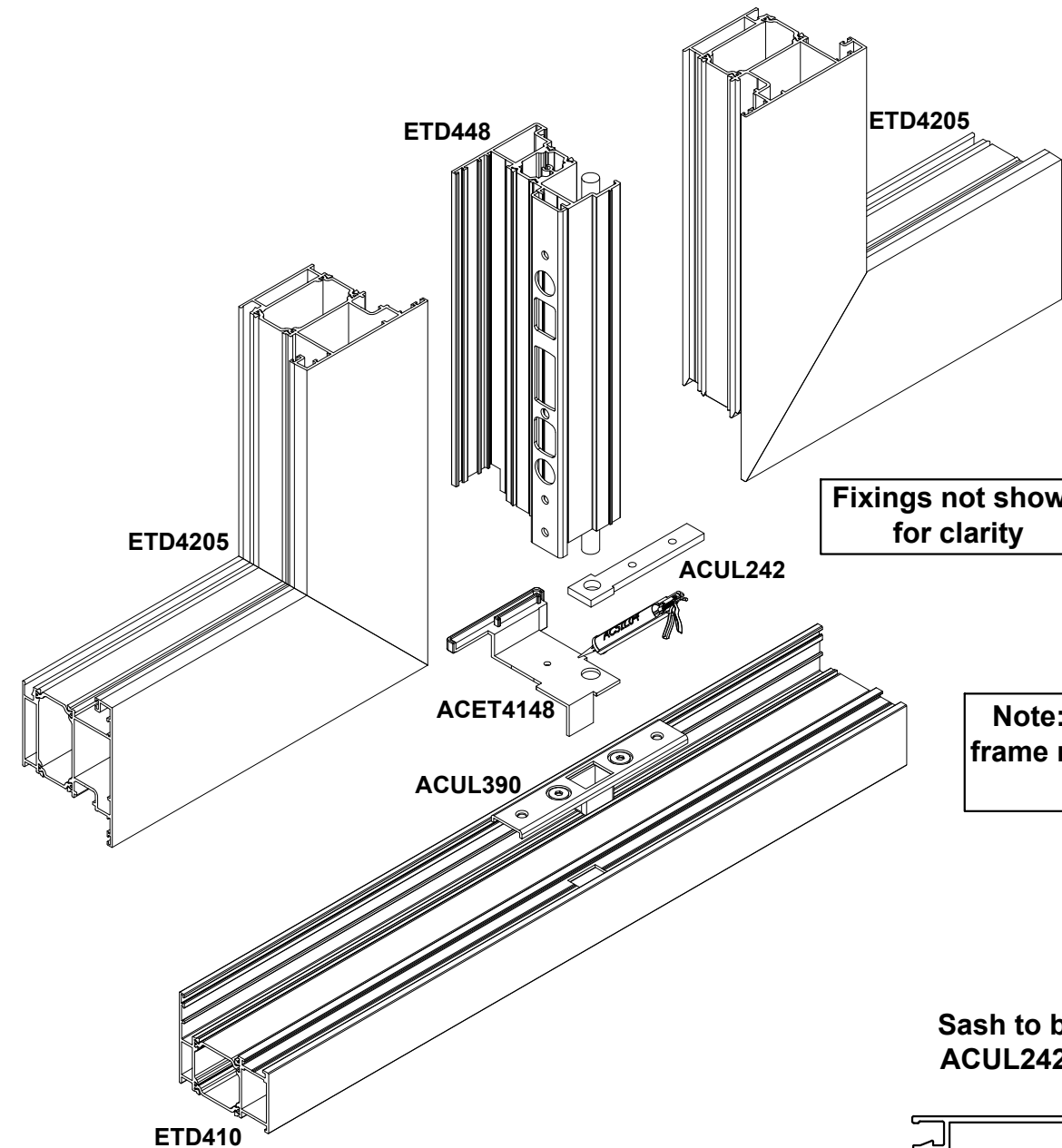


Double Door Finger Bolt Lock Preparation for Full Frame



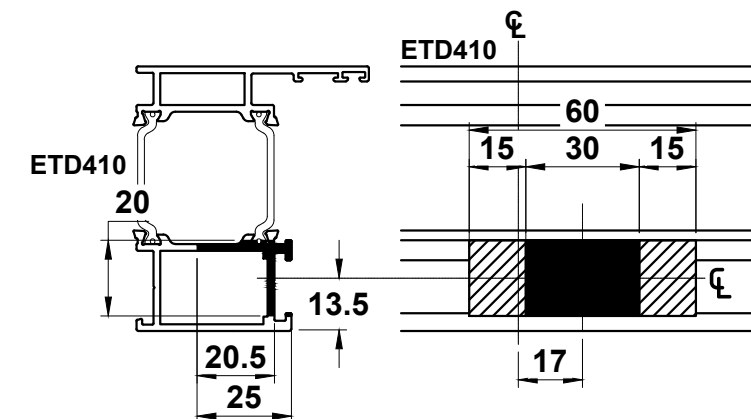
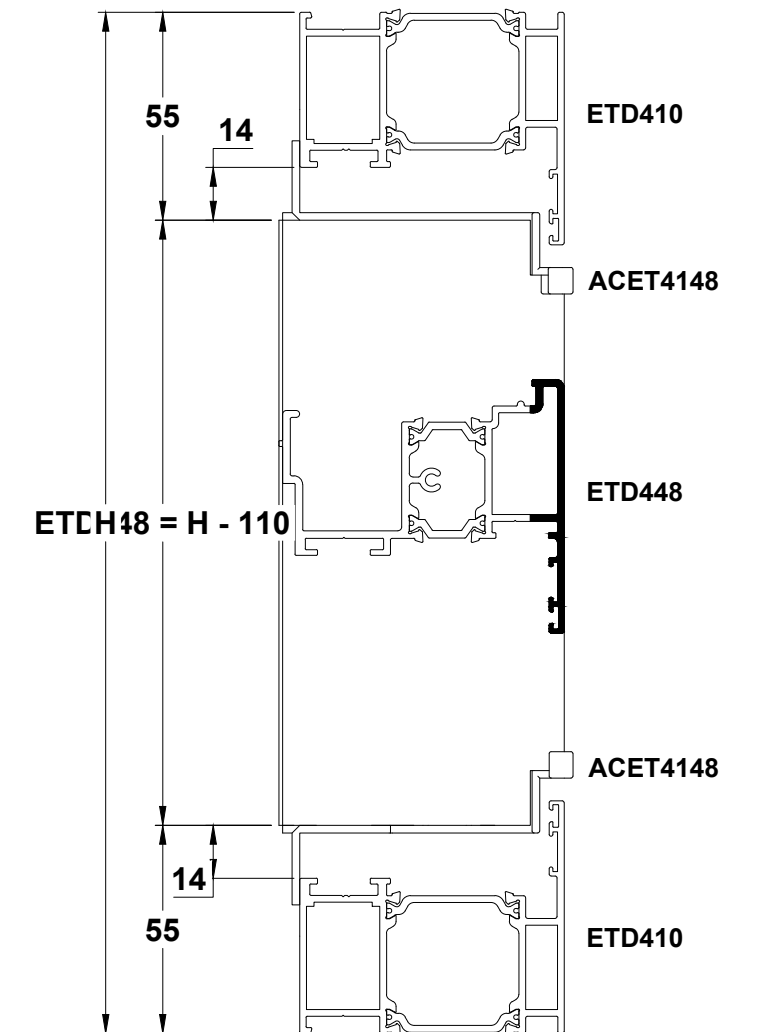
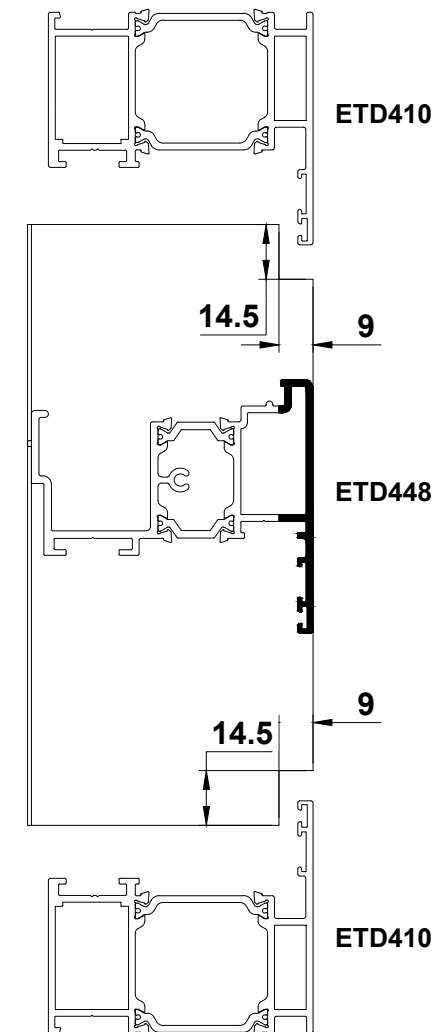
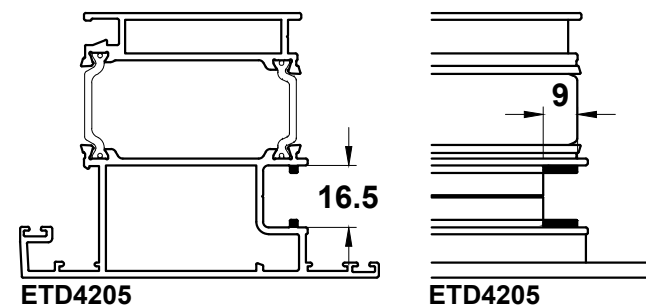
Do Not Scale From This Drawing

Double Door Finger Bolt Meeting Stile Assembly for Full Frame



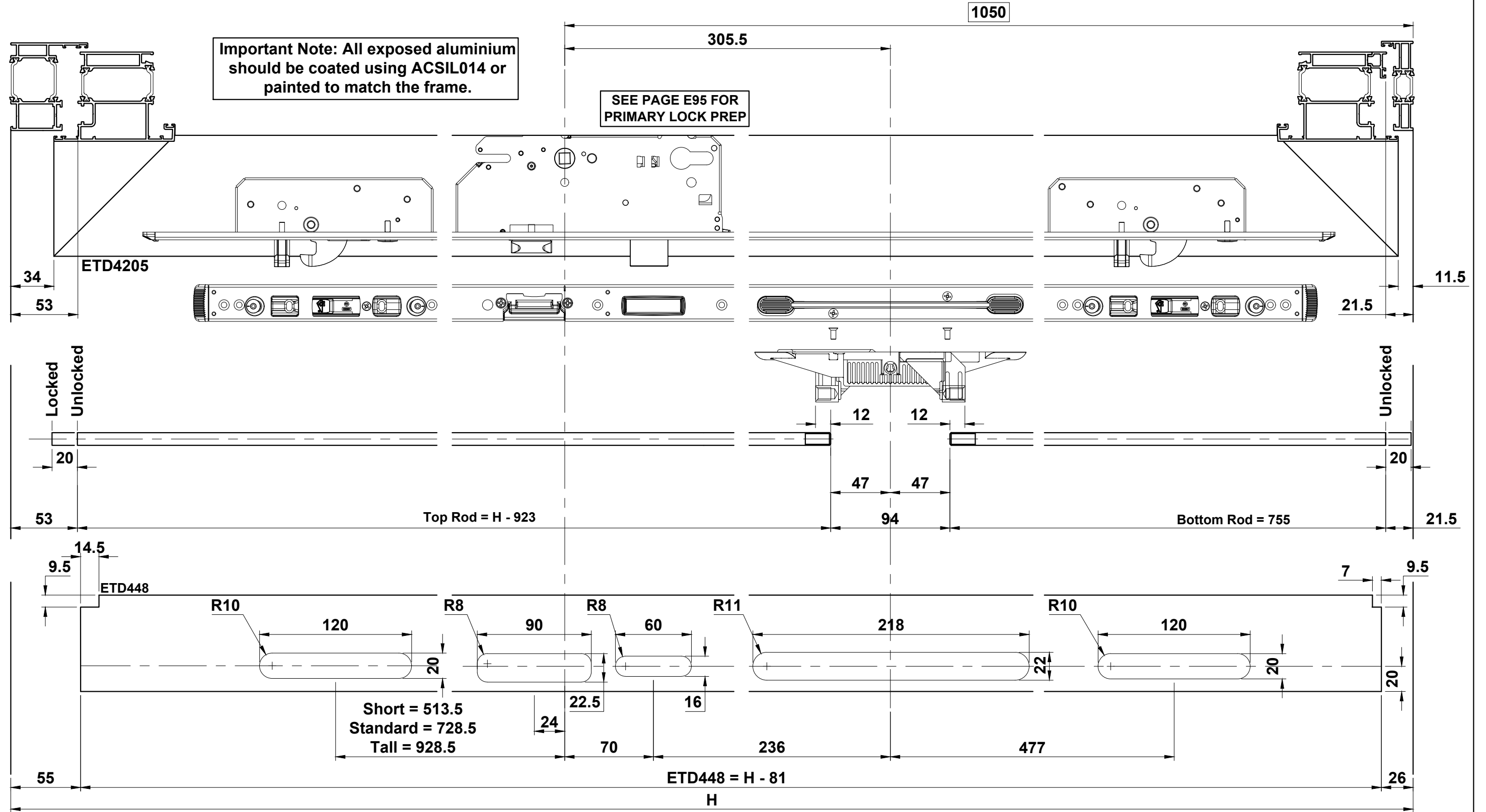
Note: All routing on outer frame require sealant to stop water leakage

Sash to be notched to allow ACUL242 to fit into position

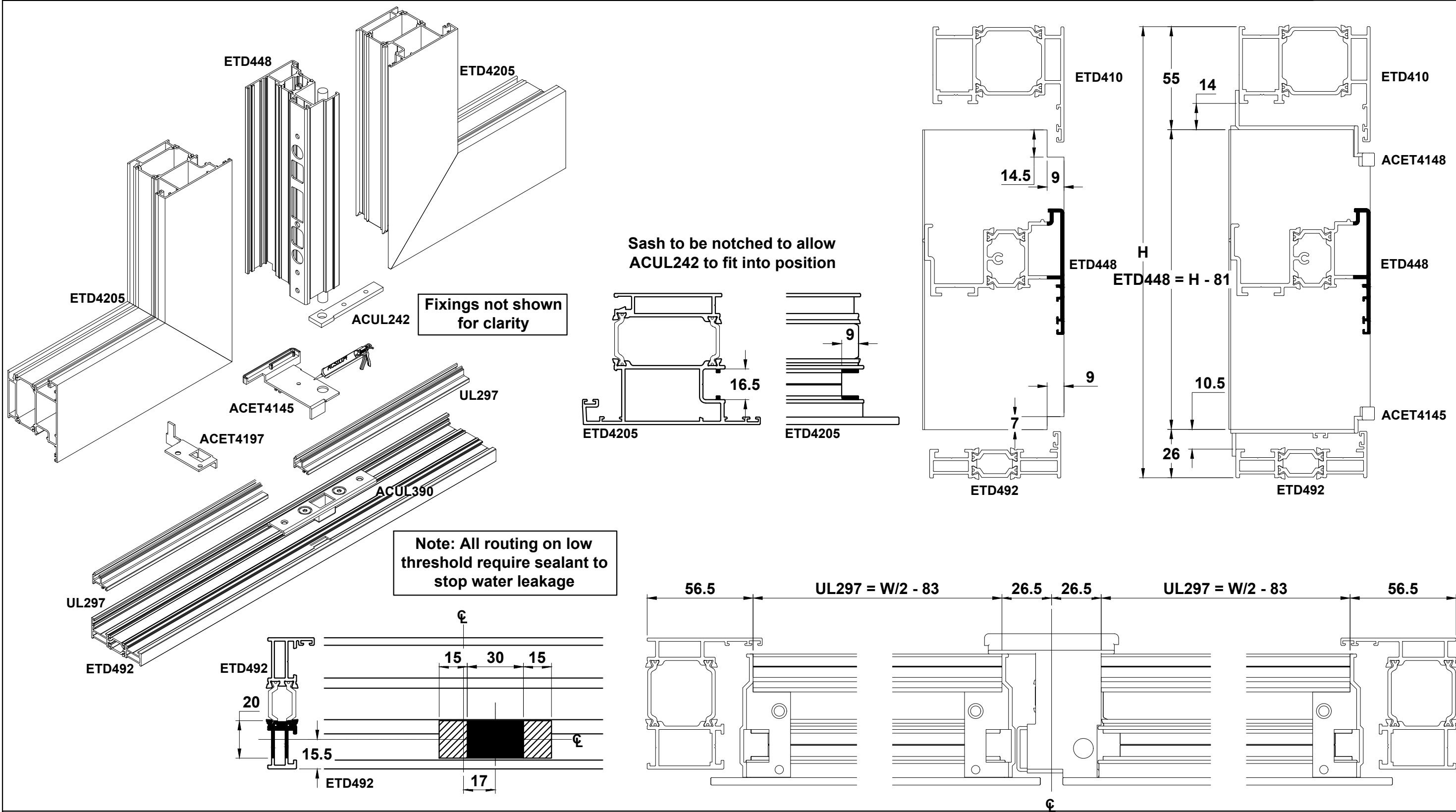


Do Not Scale From This Drawing

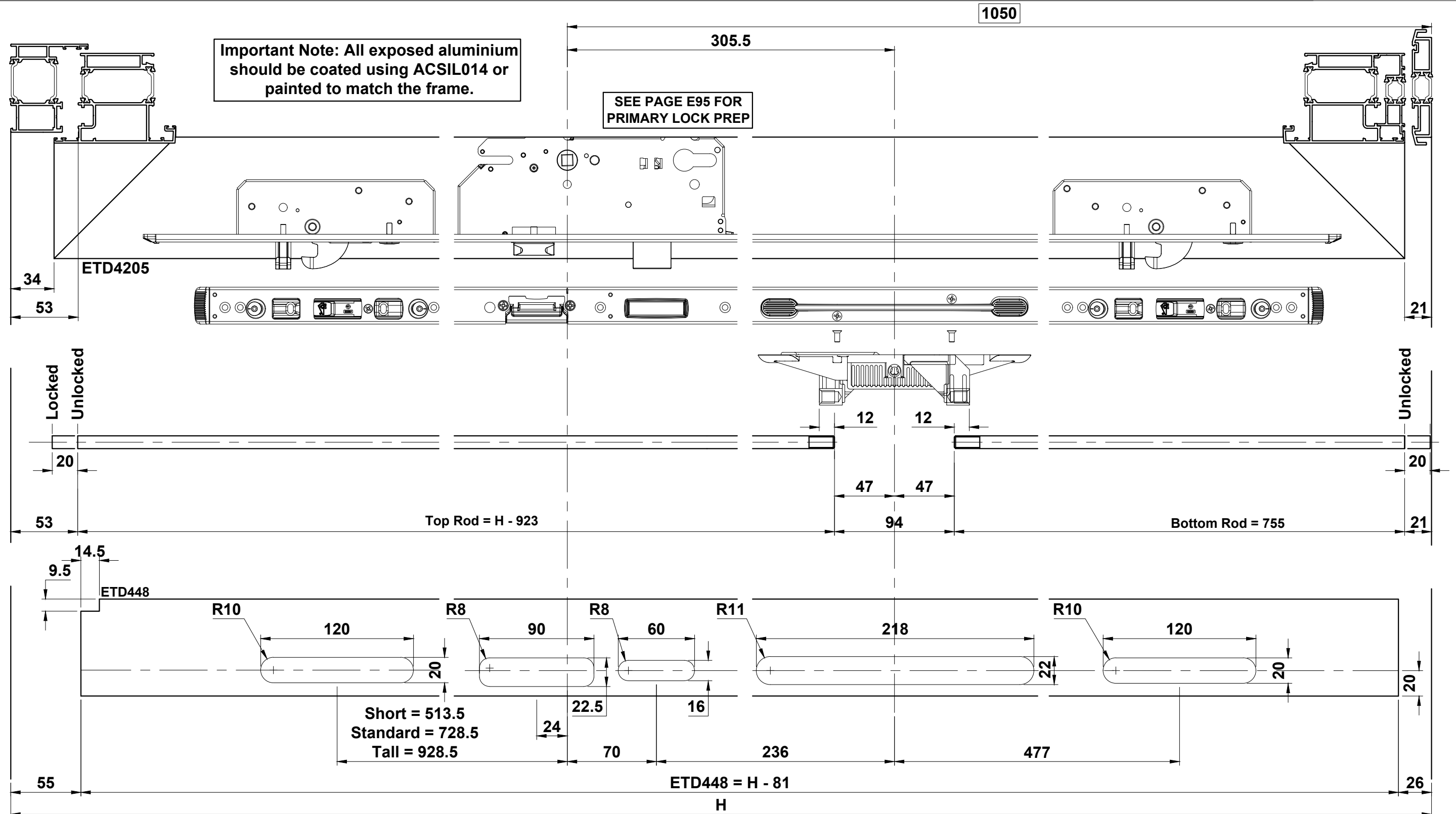
Double Door Finger Bolt Lock Preparation for Low Rebate Threshold



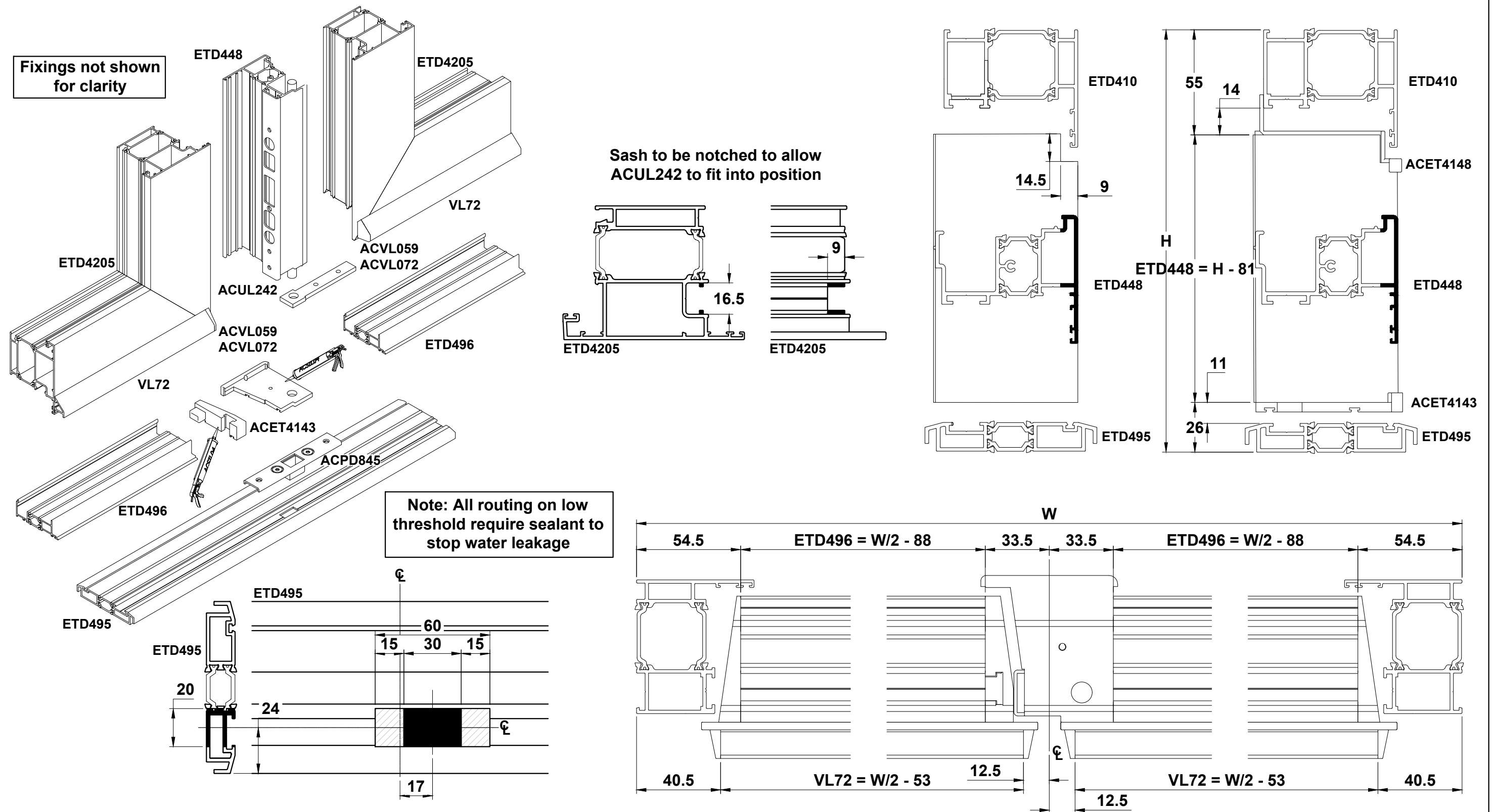
Double Door Finger Bolt Meeting Stile Assembly for Low Rebate Threshold



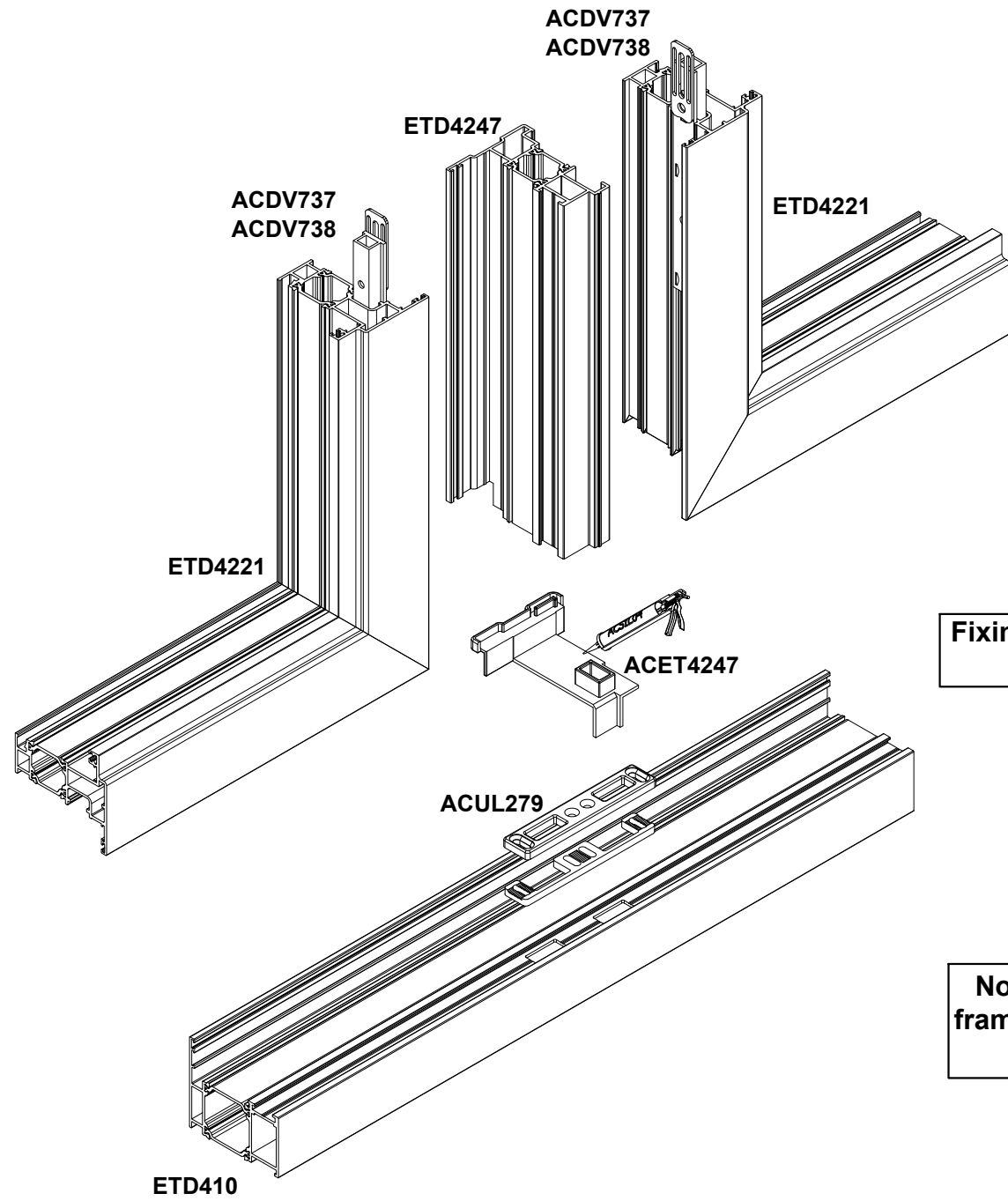
Double Door Finger Bolt Lock Preparation for Low Ramp Threshold



Double Door Finger Bolt Meeting Stile Assembly for Low Ramp Threshold

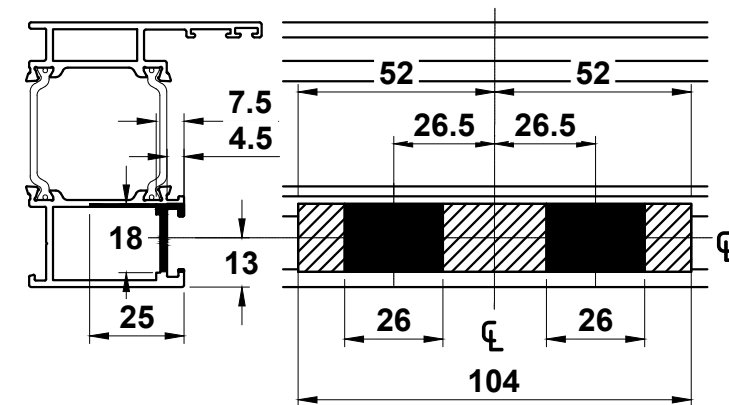
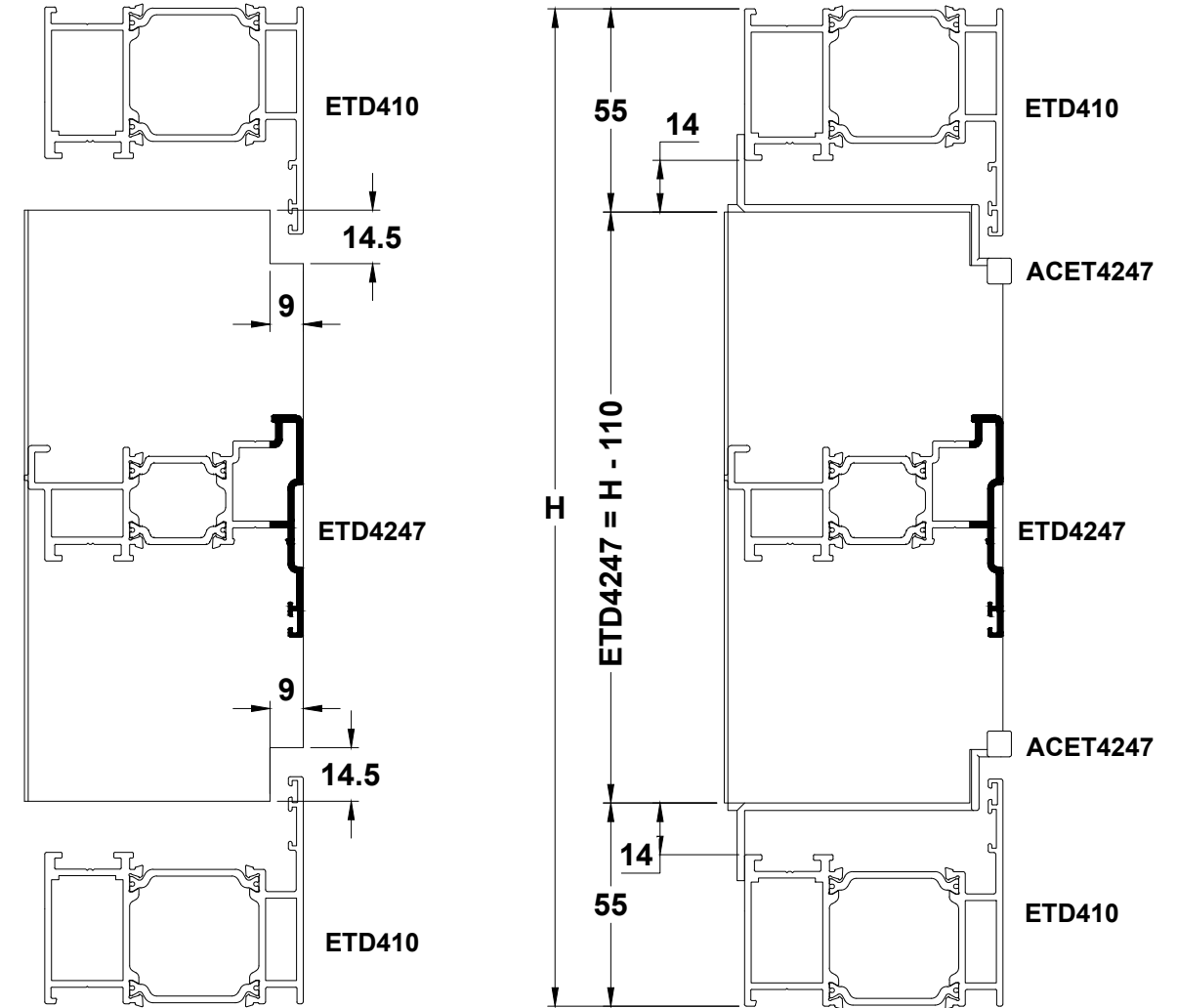


Heritage Double Door Lift Lever Meeting Stile Assembly for Full Frame



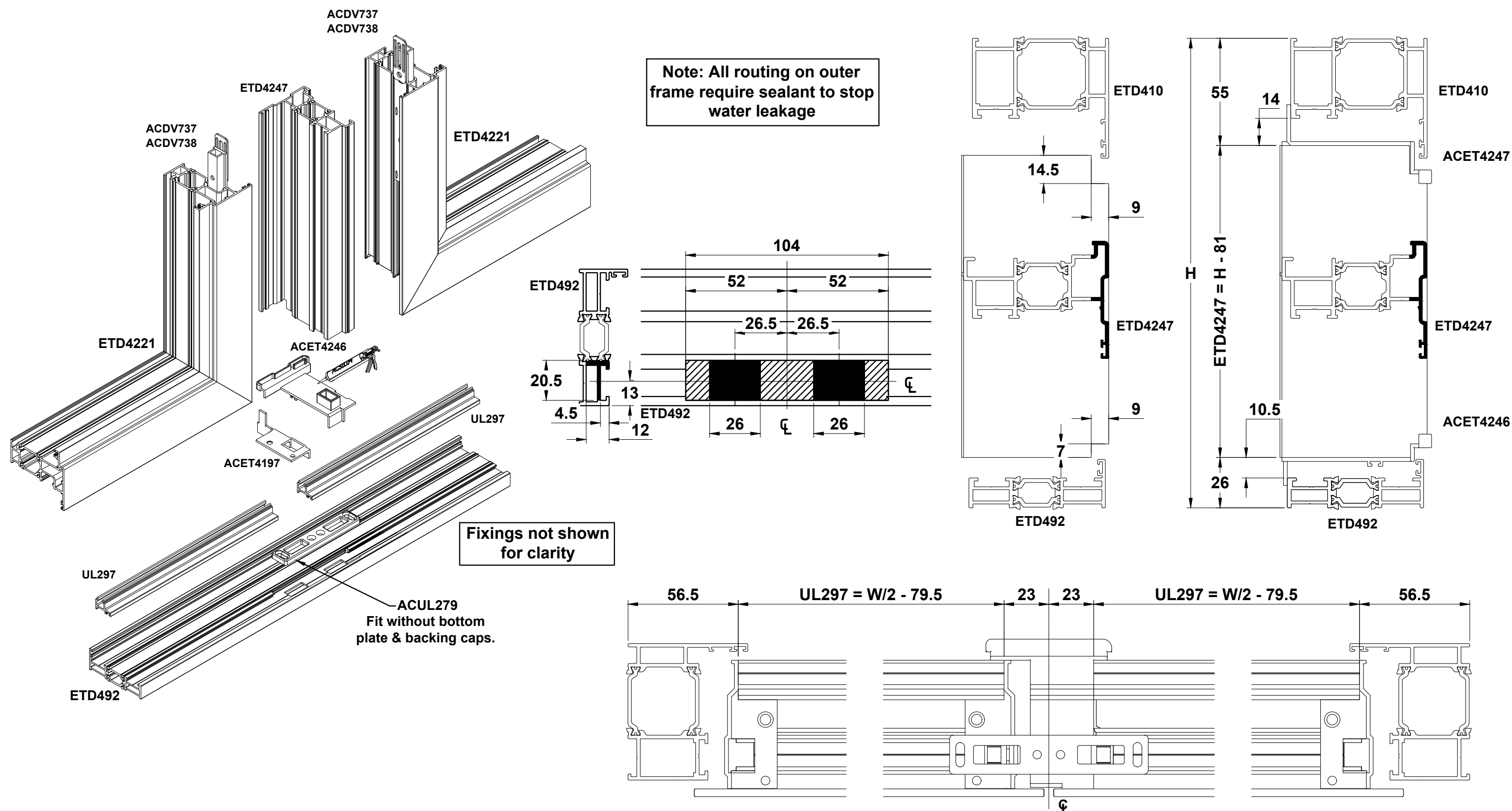
Fixings not shown
for clarity

Note: All routing on outer
frame require sealant to stop
water leakage

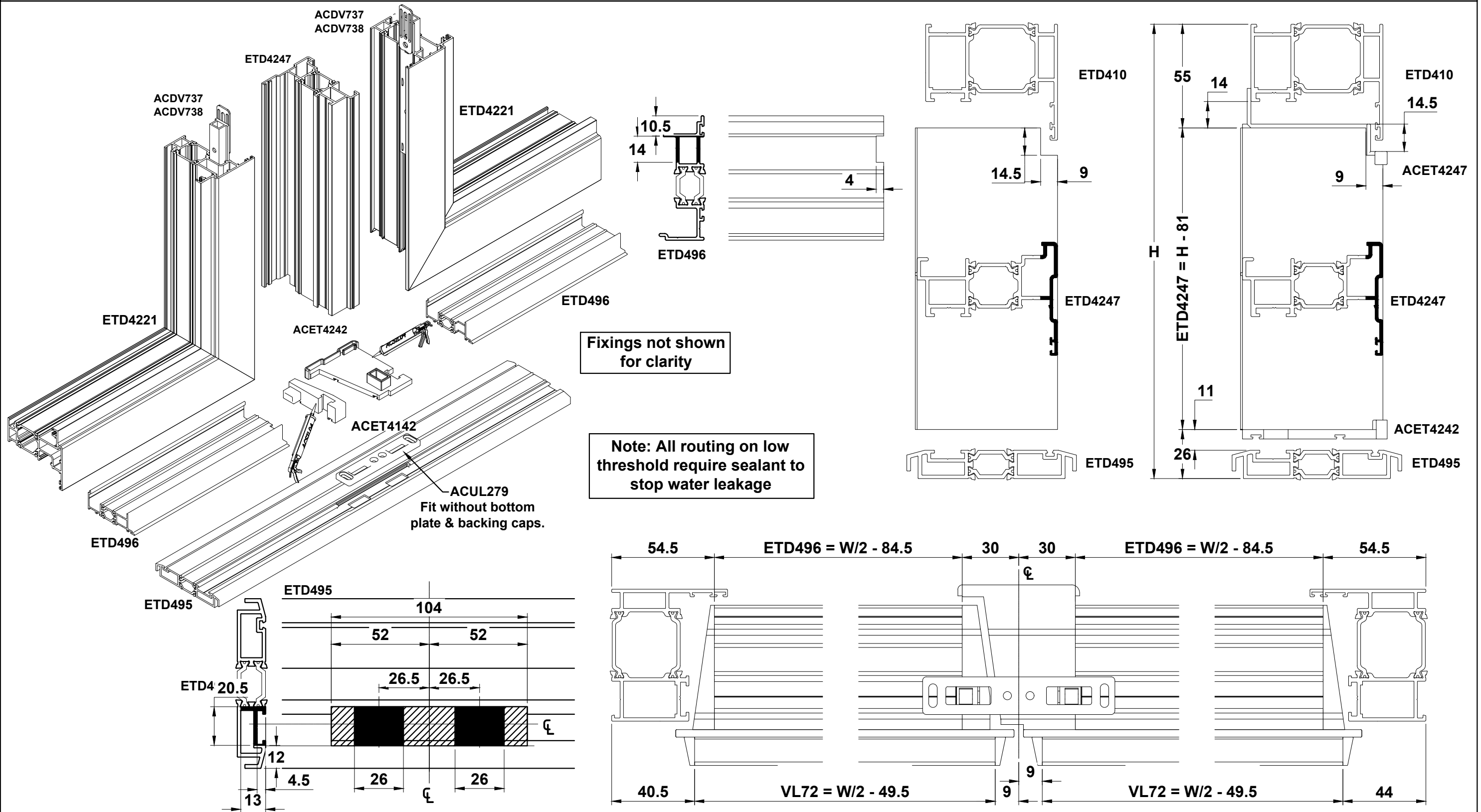


Do Not Scale From This Drawing

Heritage Double Door Lift Lever Meeting Stile Assembly for Low Rebate Threshold

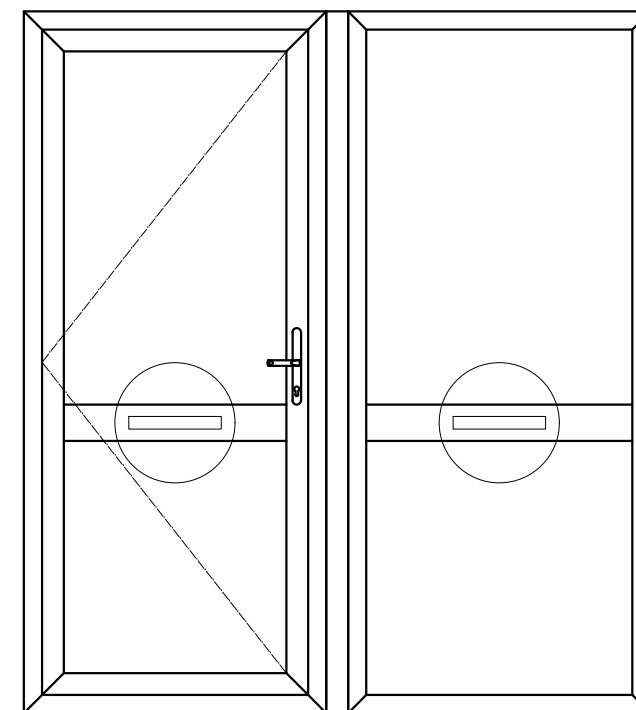
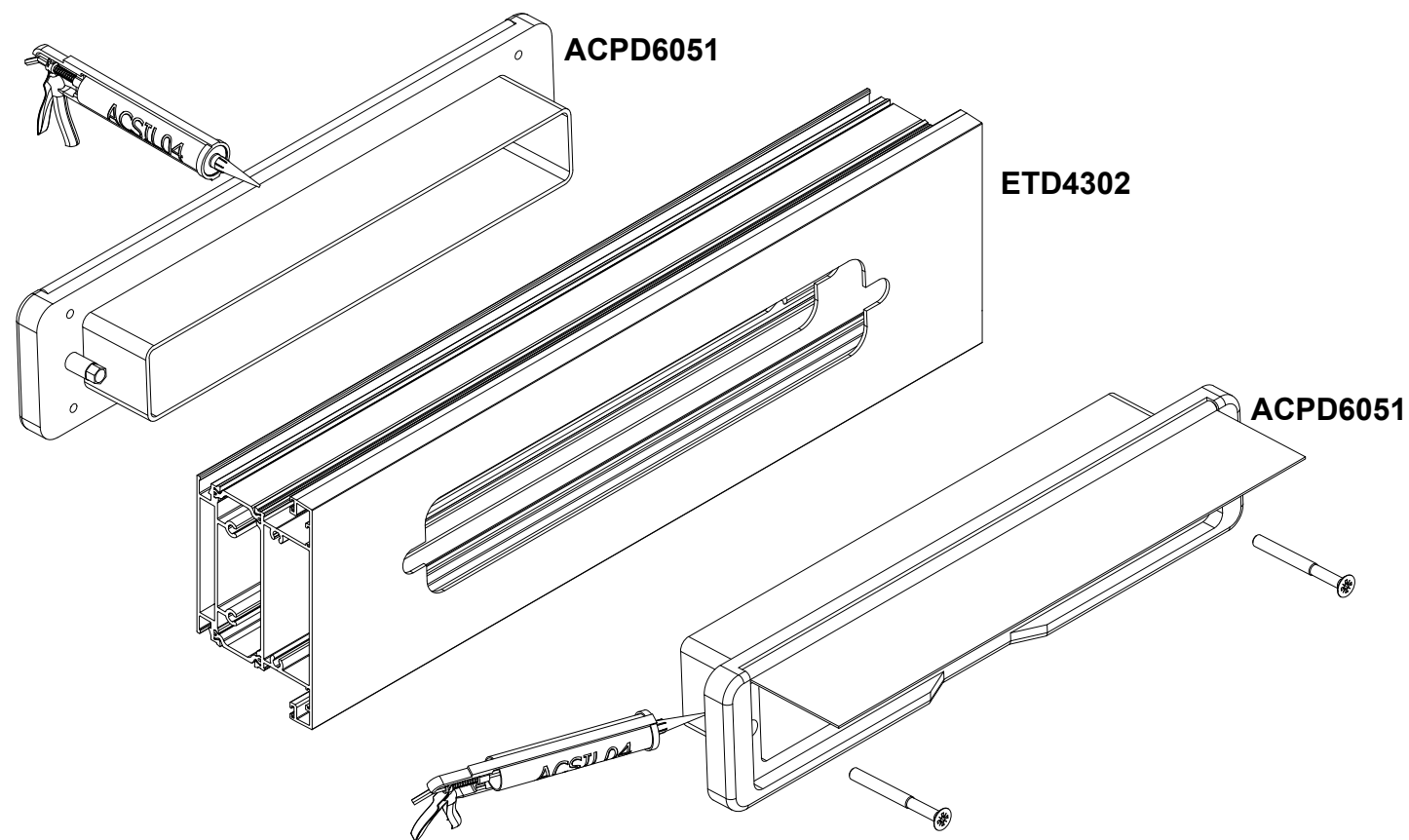
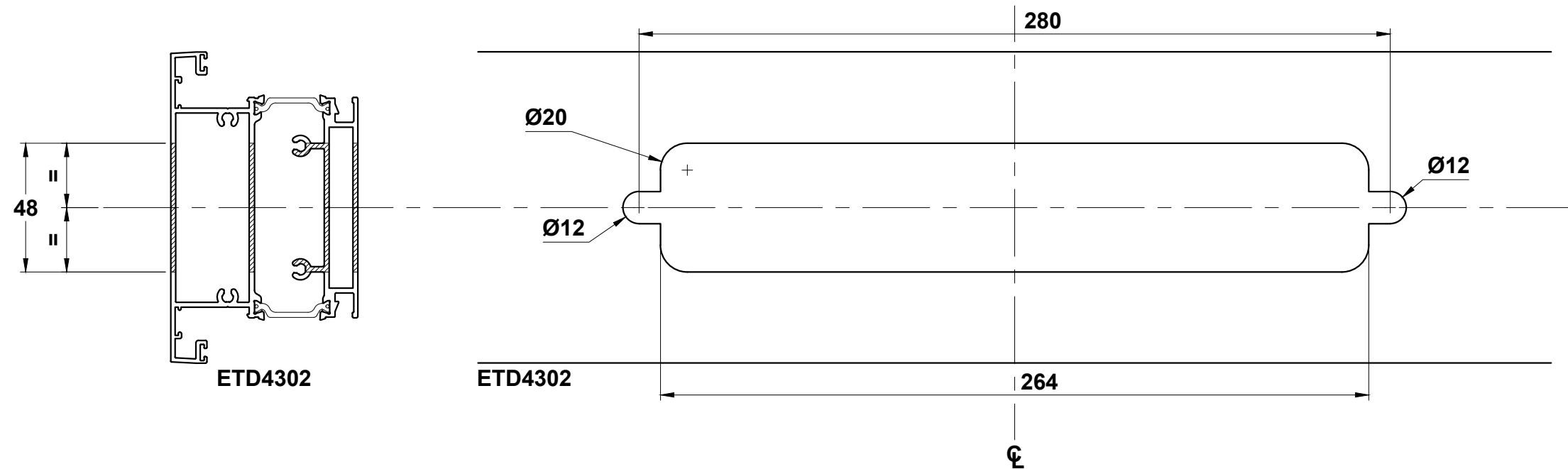


Heritage Double Door Lift Lever Meeting Stile Assembly for Low Ramp Threshold



Do Not Scale From This Drawing

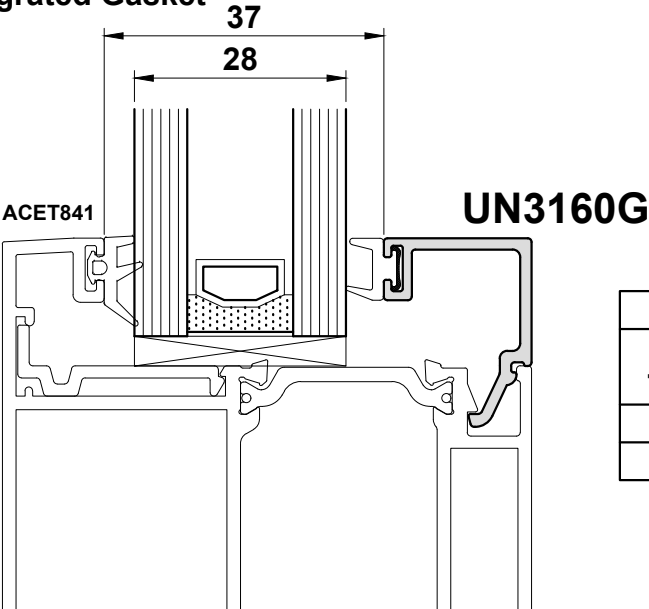
Letter Plate Fitting



Glazing Chart

28mm Glazing

Integrated Gasket

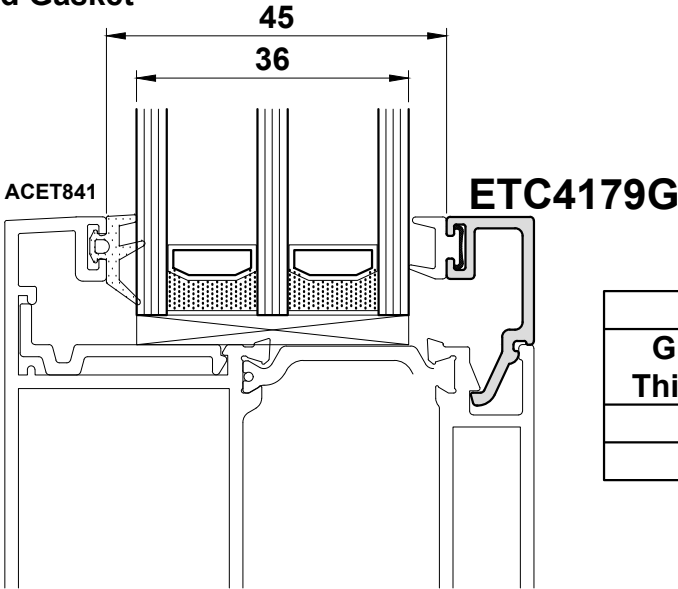


Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
28	ACET841	-
29 (28.8)	ACET842	-

ETD4205 ETD4221

36mm Glazing

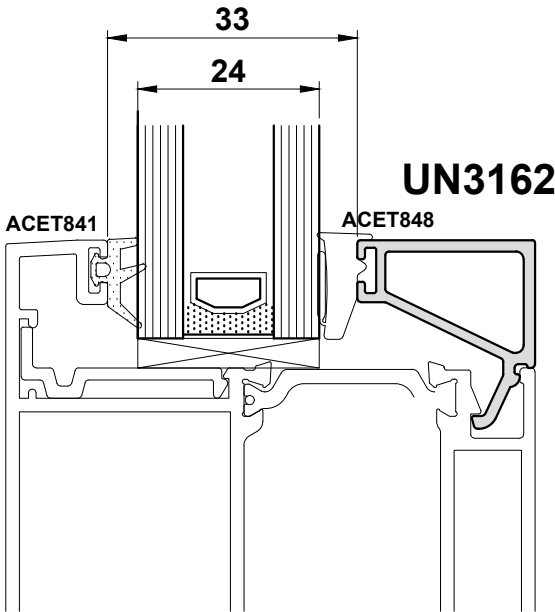
Integrated Gasket



Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
36	ACET841	-
37	ACET842	-

ETD4205 ETD4221

24-26mm Glazing

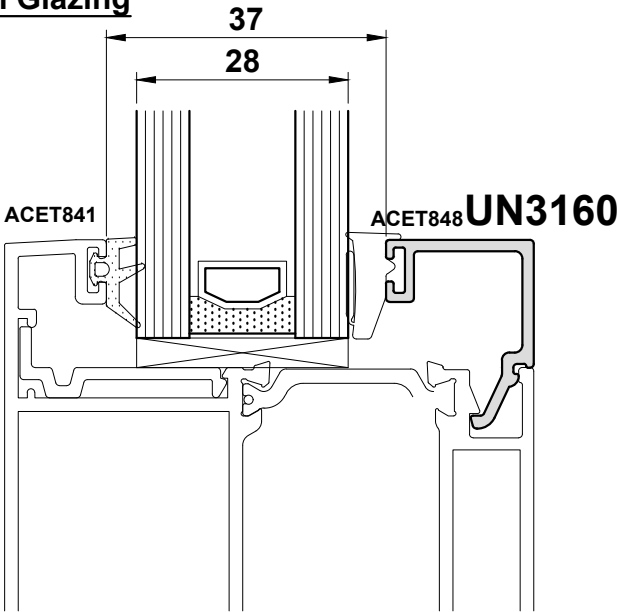


Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
24	ACET841	ACET848
25	ACET842	ACET848
26	ACET843	ACET848

Standard Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
24	ACVG31	ACUN036
25	ACVG231	ACUN036
26	ACVG231	ACUN036

ETD4205 ETD4221

28-30mm Glazing



Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
28	ACET841	ACET848
29 (28.8)	ACET842	ACET848
30	ACET843	ACET848

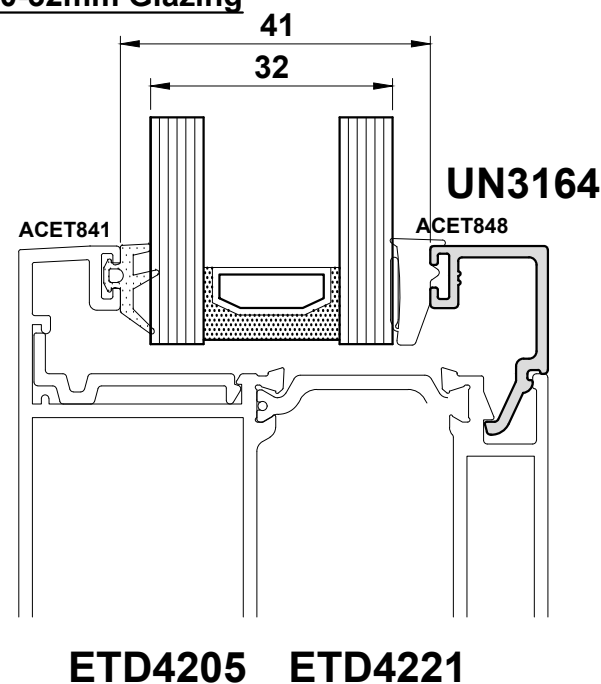
Standard Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
28	ACVG31	ACUN036
29 (28.8)	ACVG231	ACUN036
30	ACVG231	ACUN036

ETD4205 ETD4221

Do Not Scale From This Drawing

Glazing Chart

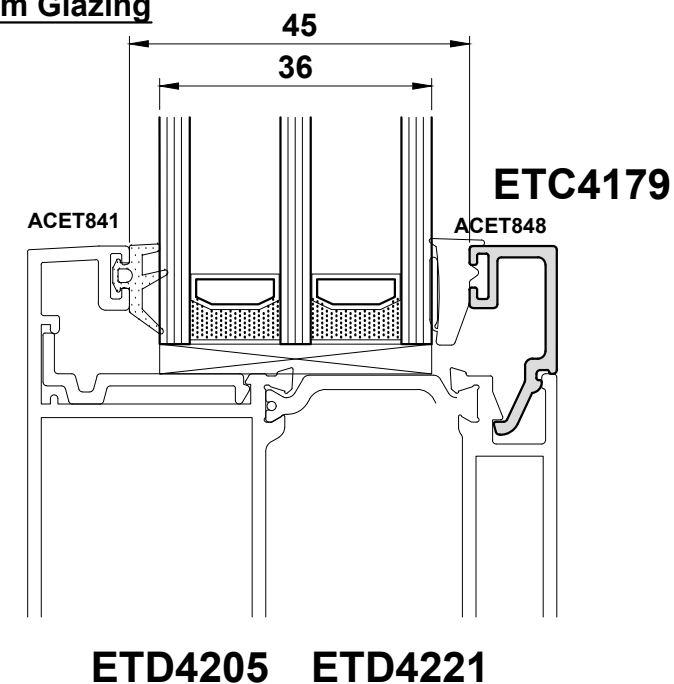
30-32mm Glazing



Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
30	ACET841	ACET848
31	ACET842	ACET848
32	ACET843	ACET848

Standard Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
30	ACVG31	ACUN036
31	ACVG231	ACUN036
32	ACVG231	ACUN036

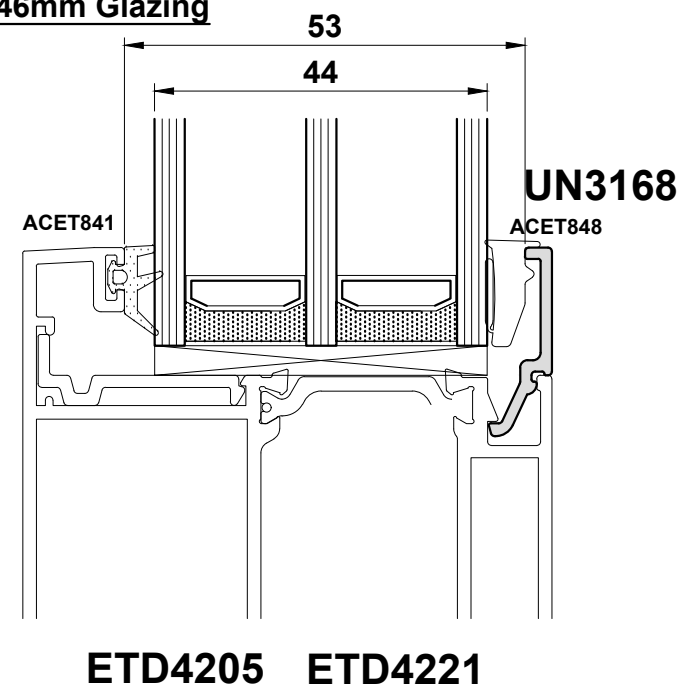
36mm Glazing



Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
36	ACET841	ACET848
37	ACET842	ACET848
38	ACET843	ACET848

Standard Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
36	ACVG31	ACUN036
37	ACVG231	ACUN036
38	ACVG231	ACUN036

44-46mm Glazing



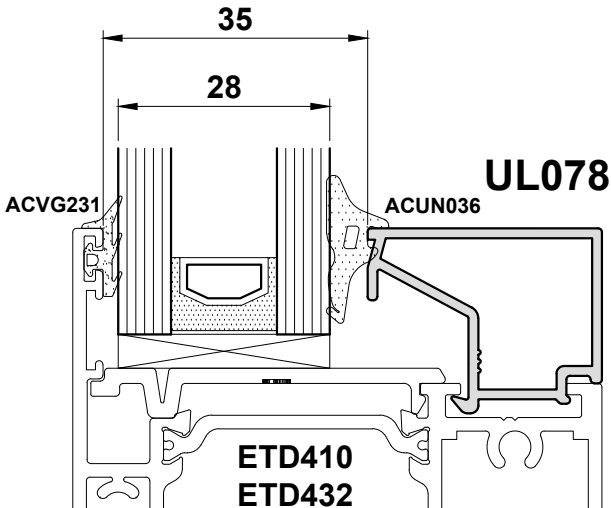
Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
44	ACET841	ACET848
45	ACET842	ACET848
46	ACET843	ACET848

Standard Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
44	ACVG31	ACUN036
45	ACVG231	ACUN036
46	ACVG231	ACUN036

Do Not Scale From This Drawing

Glazing Chart

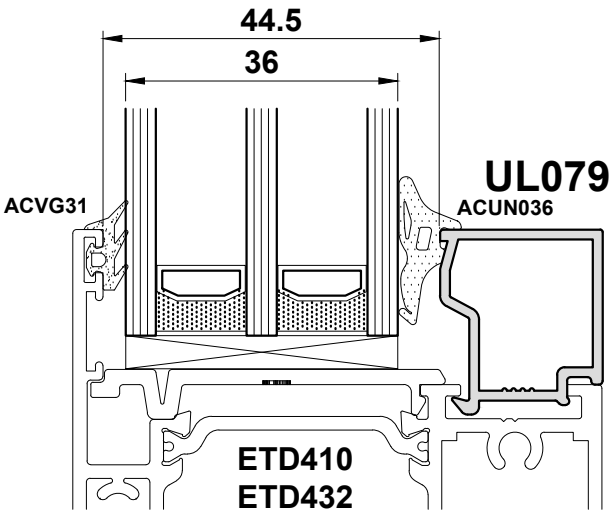
27-29mm Glazing



Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
27	ACET842	ACET848
28	ACET843	ACET848
29 (28.8)	ACET843	ACW20038

Standard Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
27	ACVG231	ACUN036
28	ACVG231	ACUN036
29 (28.8)	ACVG231	ACUN033

36-38mm Glazing

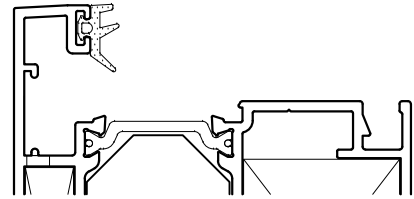


Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
36	ACET841	ACET848
37	ACET842	ACET848
38	ACET843	ACET848

Standard Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
36	ACVG31	ACUN036
37	ACVG231	ACUN036
38	ACVG231	ACUN036

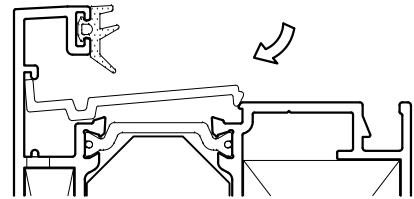
Do Not Scale From This Drawing

Glazing Details



Step One. Install Captive Gasket

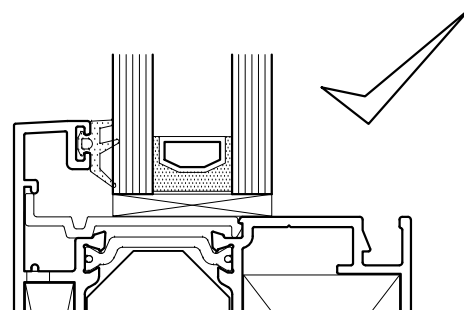
- Follow Gasket Configuration from
pages E112 - E114



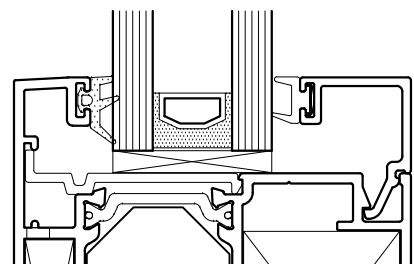
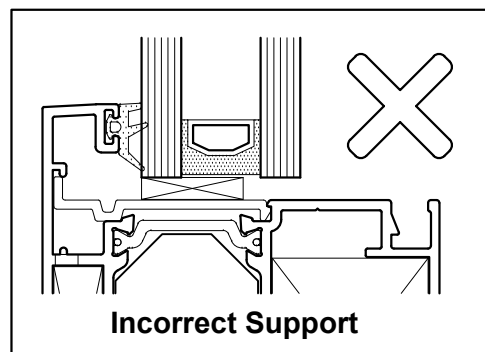
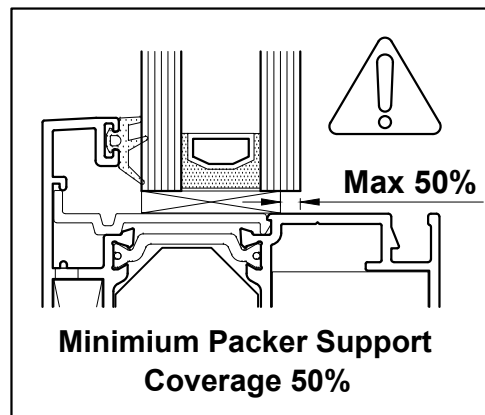
Step Two. Install Bridge Packer

- Follow Packer Placement diagrams

Step Three. Install Support Packer

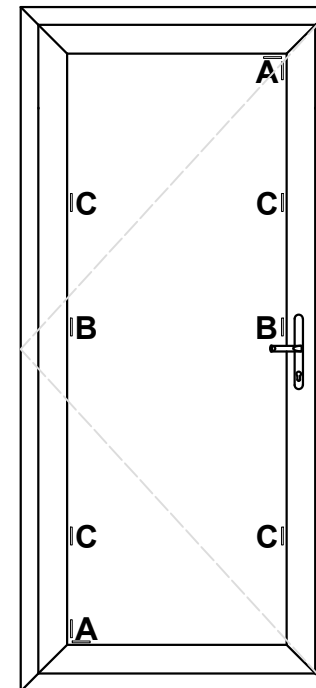


Ensure the packer supports
both panes of glass



Step Four. Install Glazing Beads

- Guidelines on Page E116



Door Packer Placement

Standard

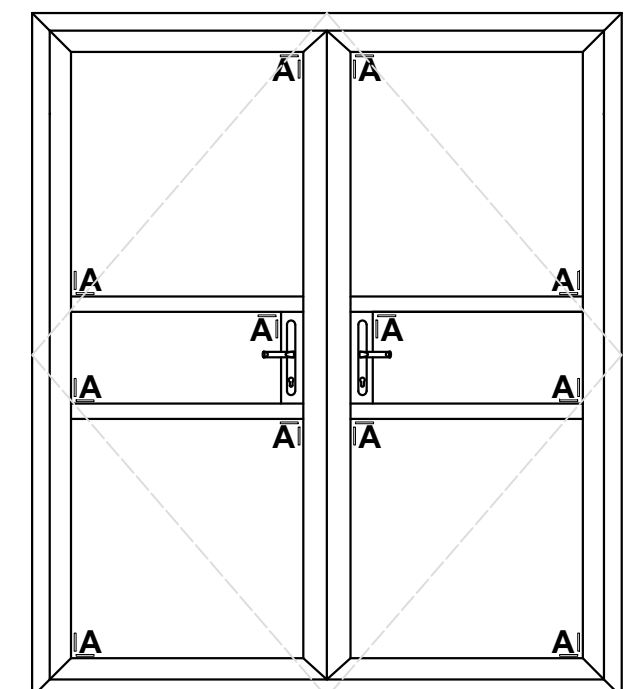
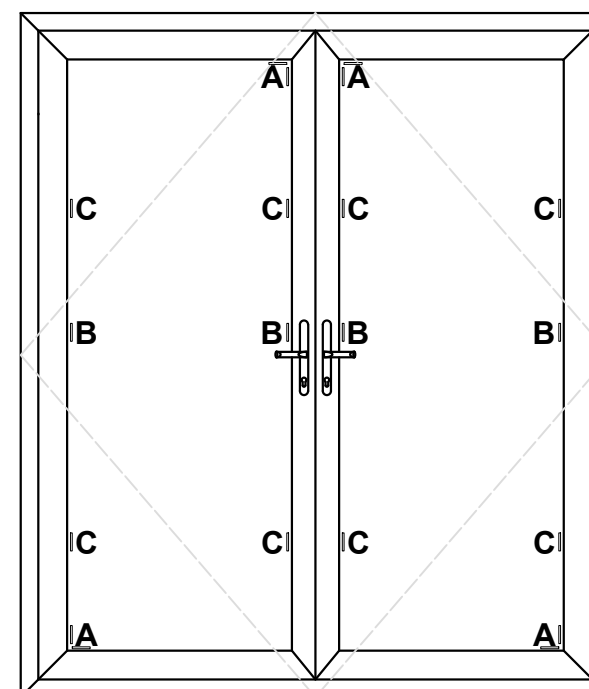
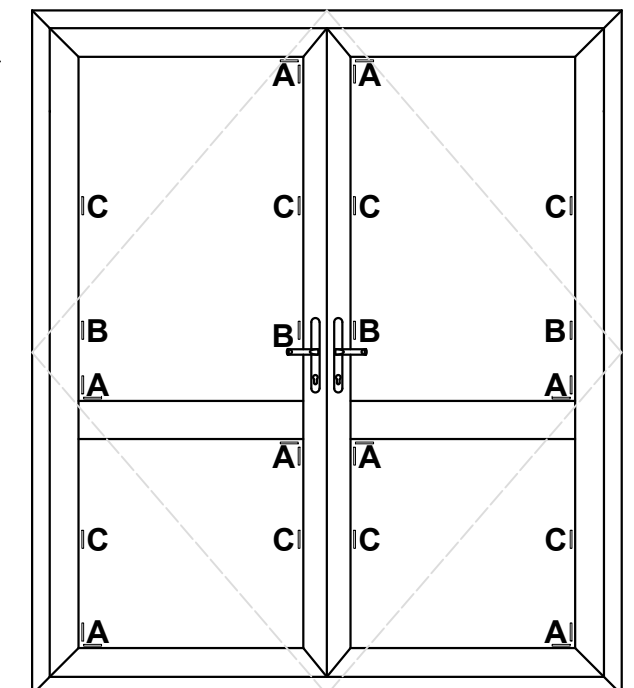
A Toe & Heel Packing Points

PAS24

B Latch Packing Points

C Locking Packing Points

Note:- When packing around the
locking/latch points. Pack adjacent
on the hinge side.

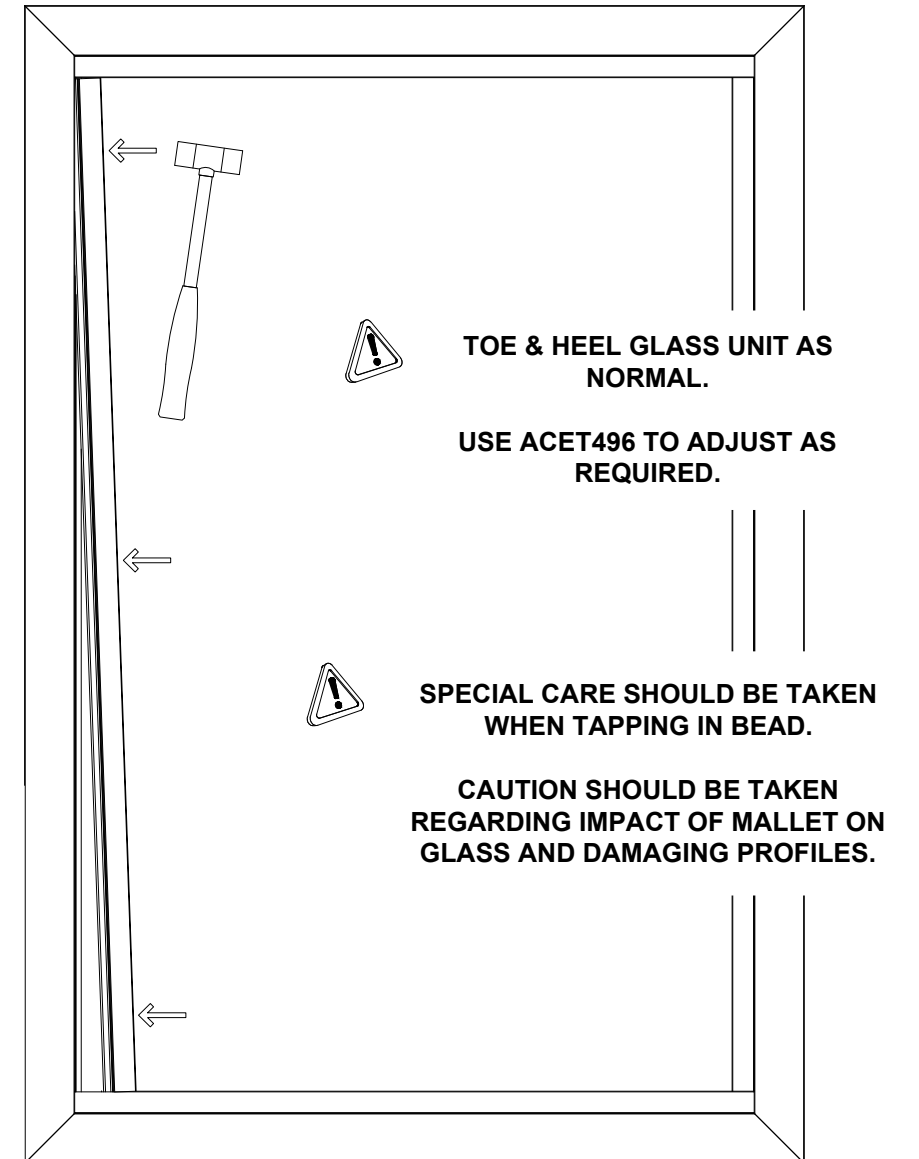
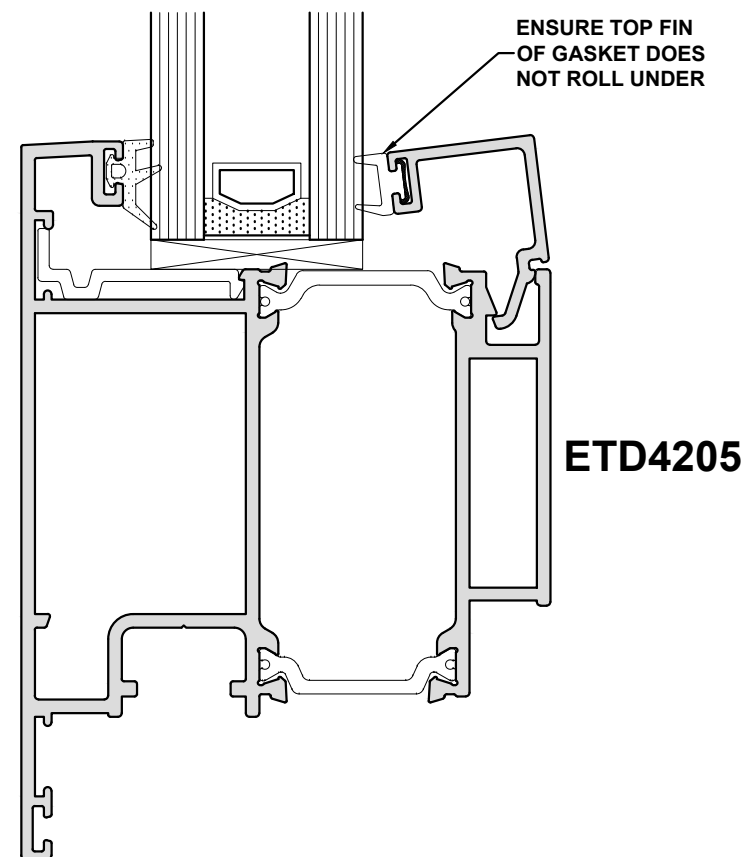
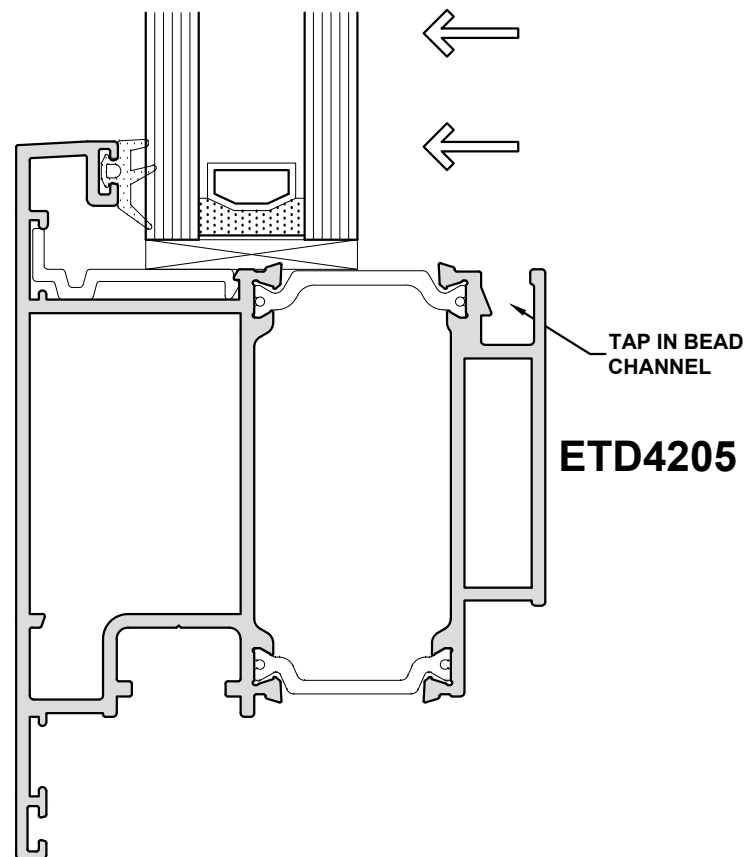
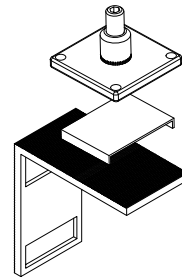


Quick-Glaze Bead Installation

QUICK-GLAZE BEAD INSTALLATION

1. INSTALL GLASS UNIT, ENSURING IT HAS BEEN PUSHED FORWARD TO ENGAGE COMPRESSION OF E GASKET.
2. BEGINNING WITH HORIZONTAL BEADS, LOCATE BEAD IN CLIP CHANNEL OF SASH AS SHOWN. INTEGRATED GASKET MAY REST AGAINST GLASS UNIT.
3. APPLY FIRM PRESSURE TO THE BEAD TO HOLD IN POSITION. THIS MAY CAUSE THE BEAD TO FULLY LOCK INTO POSITION.
4. USING A NYLON MALLET, TAP BEAD INTO CHANNEL WORKING FROM ONE END TO THE OTHER. PLEASE TAKE CARE AT THIS STAGE TO AVOID DAMAGE TO BOTH THE GLAZING UNIT AND THE BEAD.
5. REPEAT STEPS 2 - 4 TO INSTALL VERTICAL BEADS.

WE STRONGLY RECOMMEND INSTALLING ACET496 GLASS ADJUSTERS WHEN USING QUICK-GLAZE BEADS. THIS WILL REMOVE THE NEED TO REMOVE BEADS IN ORDER TO ADJUST GLASS POSITION.



Do Not Scale From This Drawing

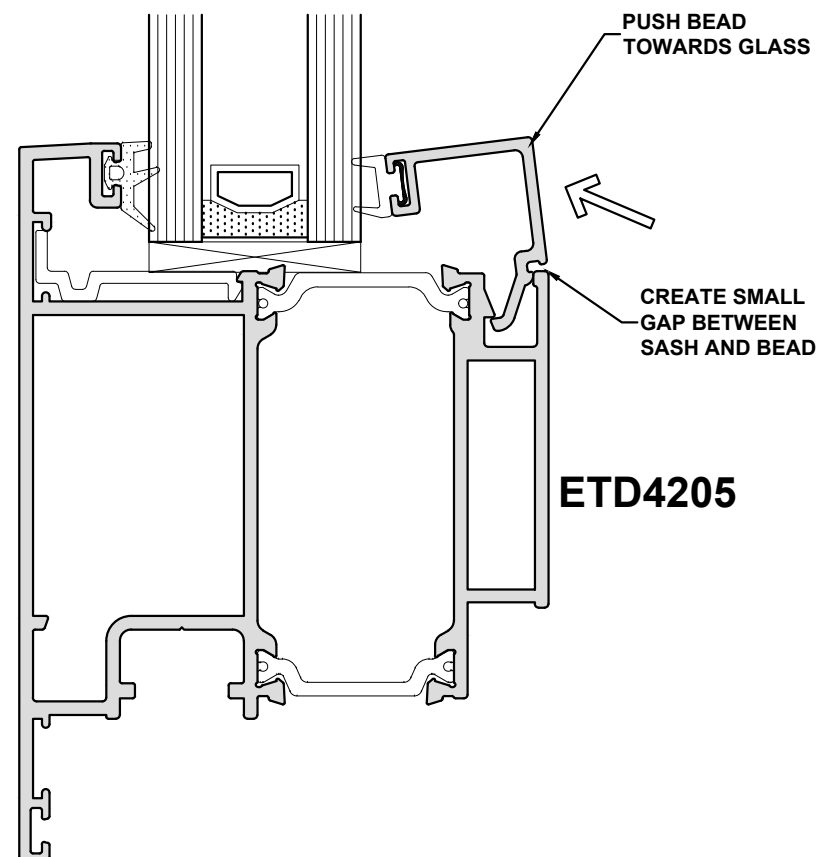
Quick-Glaze Bead Removal

KEEP INTEGRATED GASKET

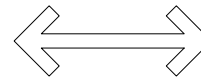
QUICK-GLAZE BEAD REMOVAL

1. STARTING ON VERTICAL BEADS, APPLY PRESSURE TO BEAD IN DIRECTION SHOWN IN ORDER TO CREATE SMALL GAP BETWEEN SASH AND BEAD.
2. GENTLY INSERT DE-GLAZING TOOL TAKING PARTICULAR CARE AS NOT TO DAMAGE PAINT FINISH.
3. SLOWLY PRISE THE BEAD UP AND AWAY FROM THE SASH.
4. THE BEAD SHOULD NOW BE EASILY REMOVABLE FROM QUICK-GLAZE BEAD CHANNEL IN SASH

BEAD AND INTEGRATED GASKET CAN BE REUSED.



OR

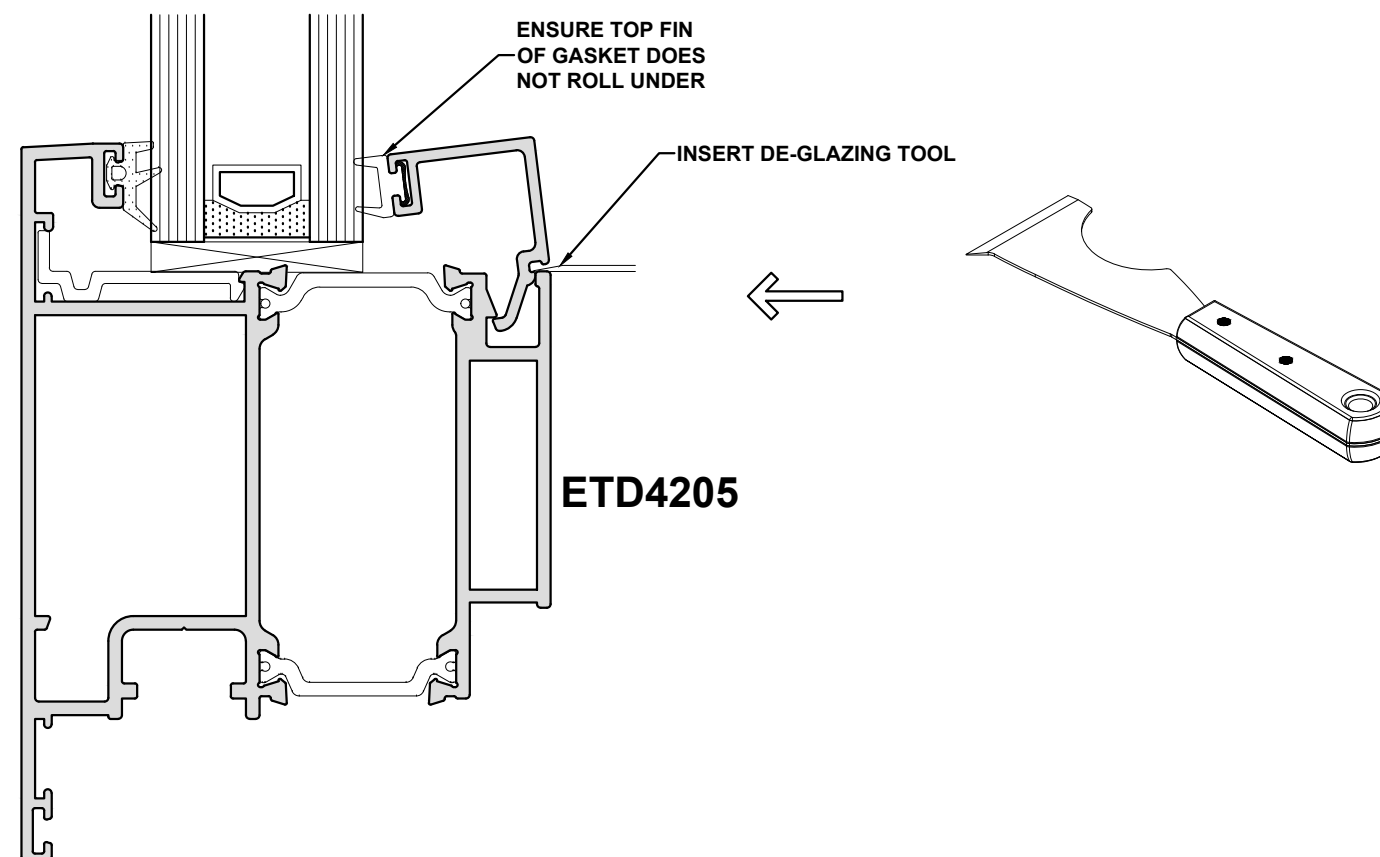


REPLACE INTEGRATED GASKET

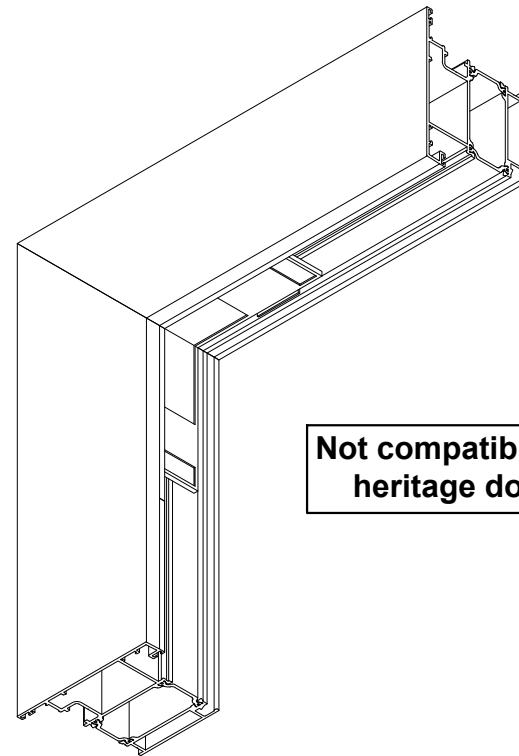
QUICK-GLAZE BEAD REMOVAL

1. USING SMALL FLAT HEADED SCREWDRIVER OR SIMILAR, WEDGE TIP BETWEEN CO EXTRUDED GASKET AND ALUMINIUM.
2. IN A LEVERING MOTION, PRISE THE GASKET AWAY FROM THE ALUMINIUM. PARTICULAR CARE SHOULD BE TAKEN NOT TO DAMAGE THE GLASS UNIT AND ALUMINIUM.
3. COMPLETE THIS AT SEVERAL LOCATIONS ALONG THE LENGTH OF THE BEAD.
4. REMOVE GASKET AND DISCARD. THIS GASKET CAN NO LONGER BE USED.
5. THE BEAD SHOULD NOW BE EASILY REMOVABLE FROM TAP IN BEAD CHANNEL IN SASH

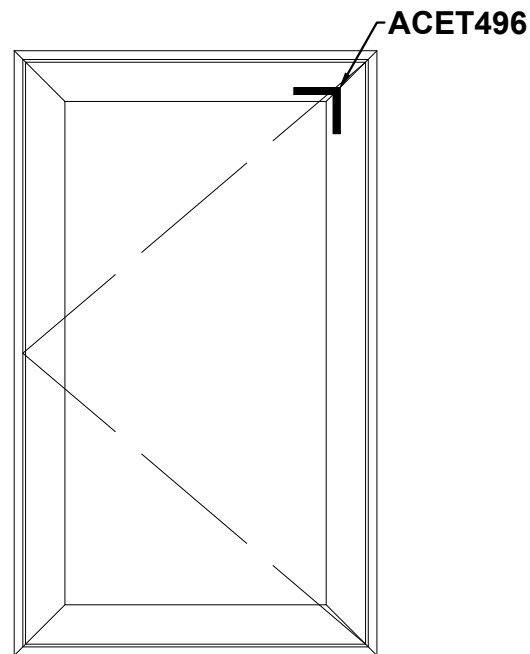
PLEASE SEE GLAZING CHART FOR REPLACEMENT GASKET CODES.



Glass Adjuster

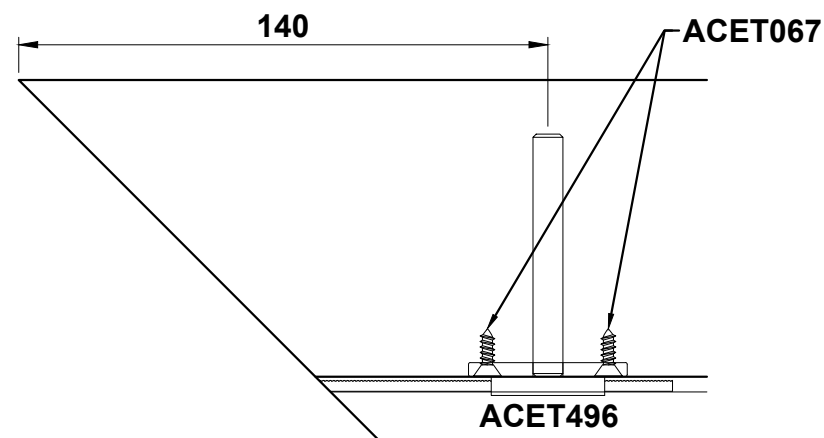


Not compatible with the
heritage door sash



To ensure accuracy use
ACET497 drill jig

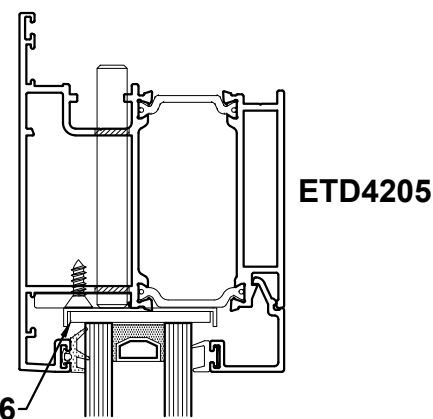
Note: Do not tighten the adjusting
screw too tightly as it can lead to
cracked glass.



ACET067

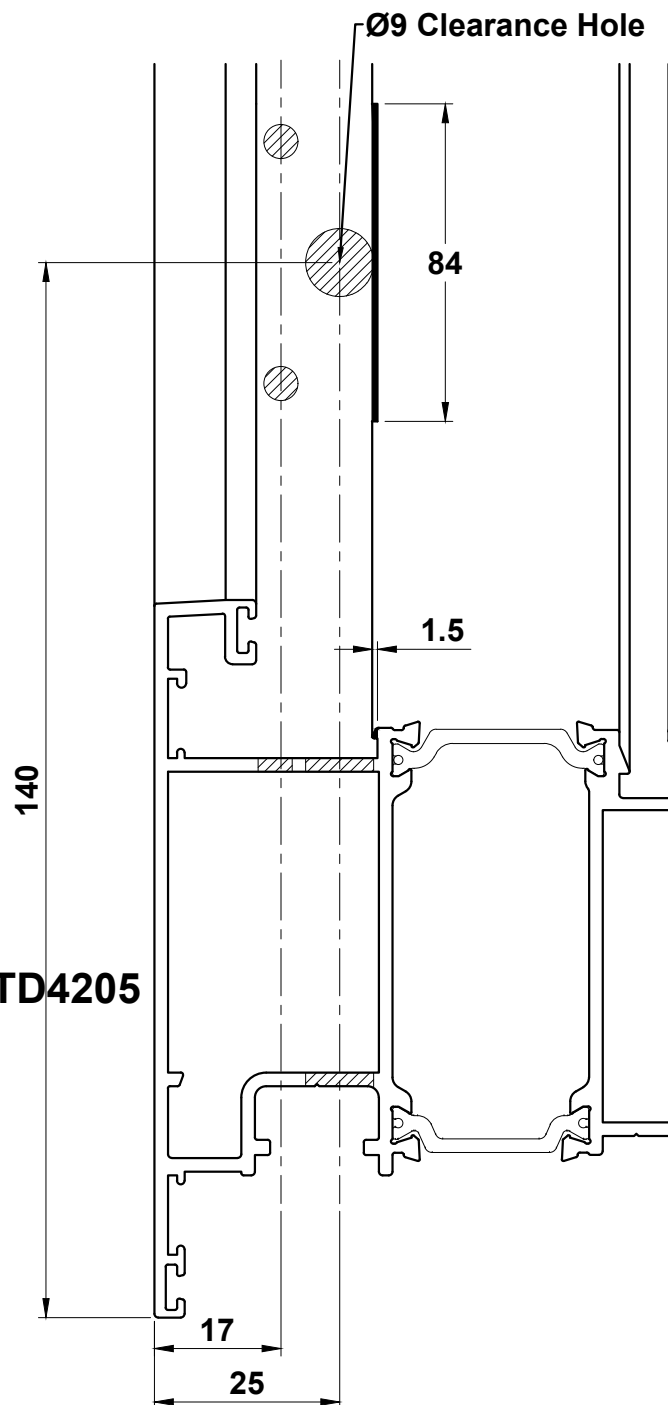
ACET496

ACET496



ETD4205

ETD4205



Ø9 Clearance Hole

84

1.5

140

17

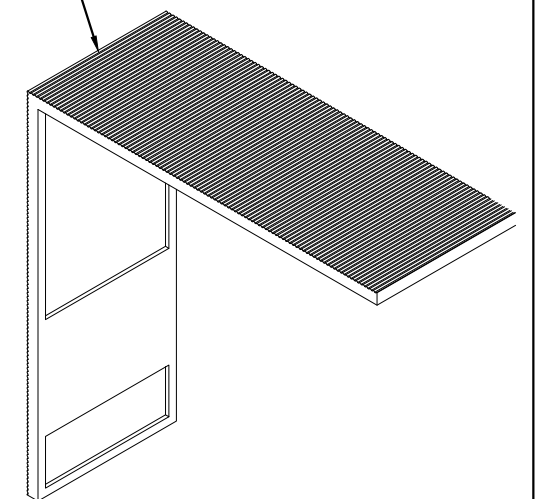
25

Adjusting
Screw

Threaded
Block

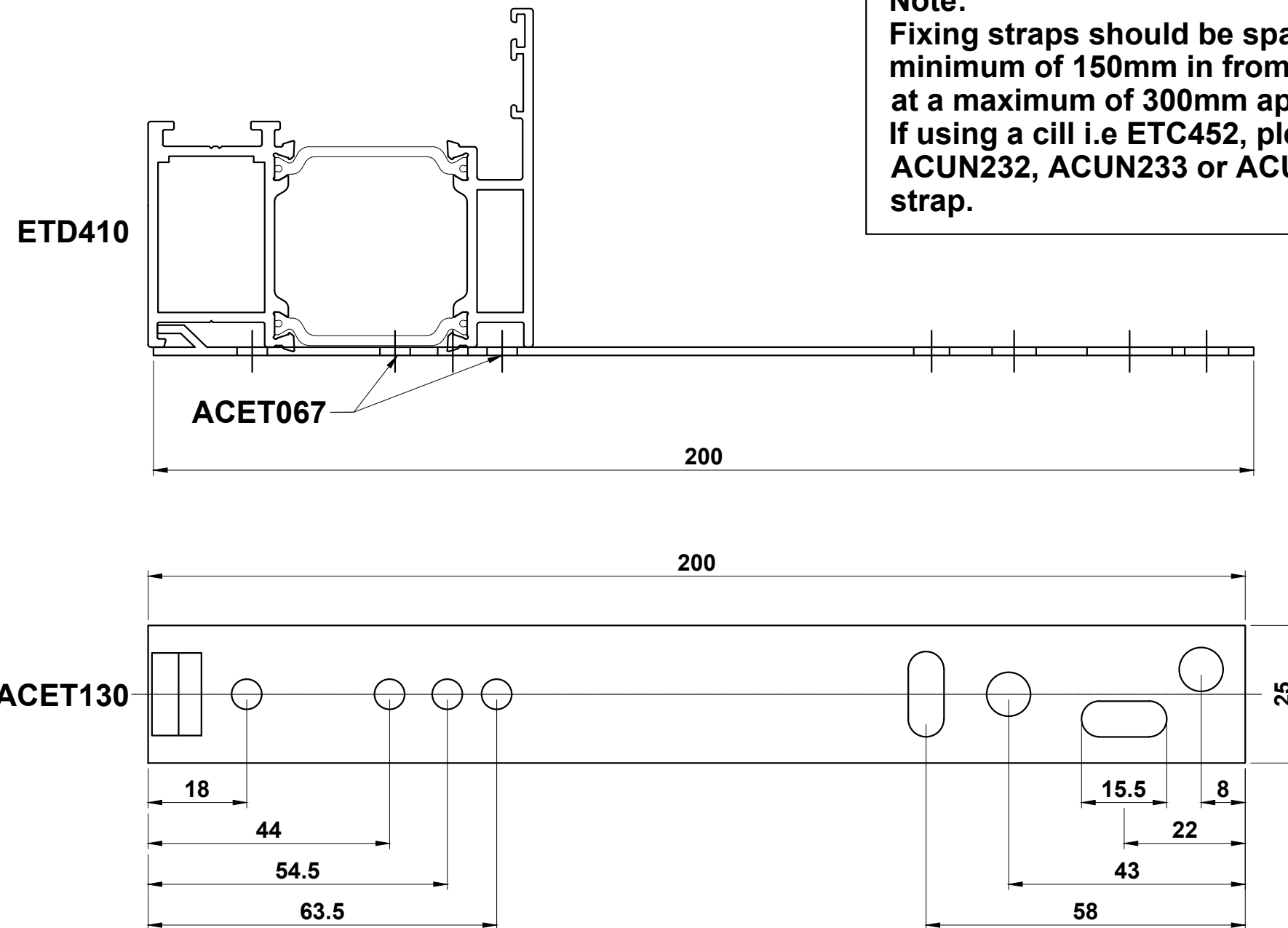
Steel Cover

ABS Corner



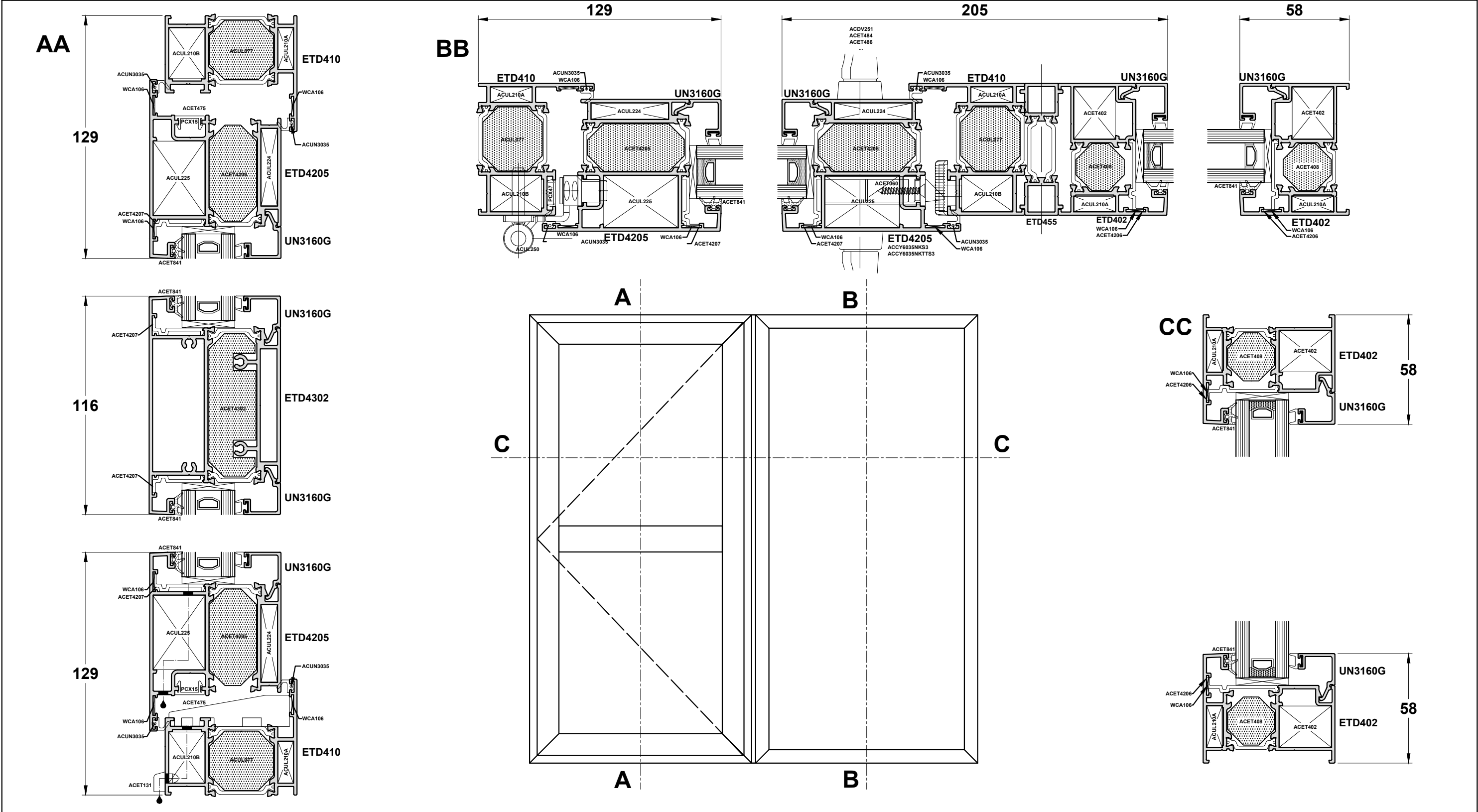
Do Not Scale From This Drawing

Fixing Strap Detail



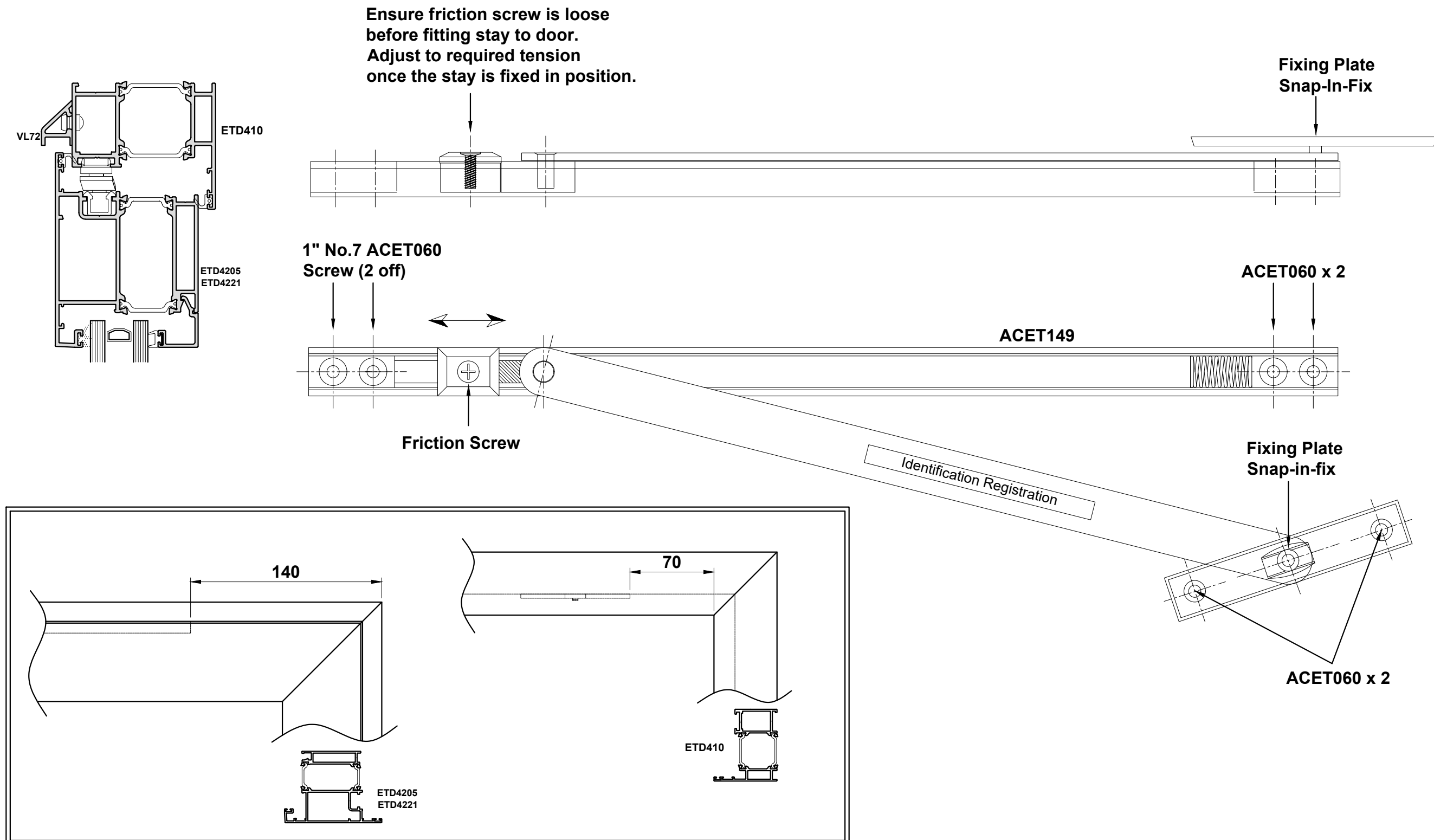
Do Not Scale From This Drawing

Example Layout



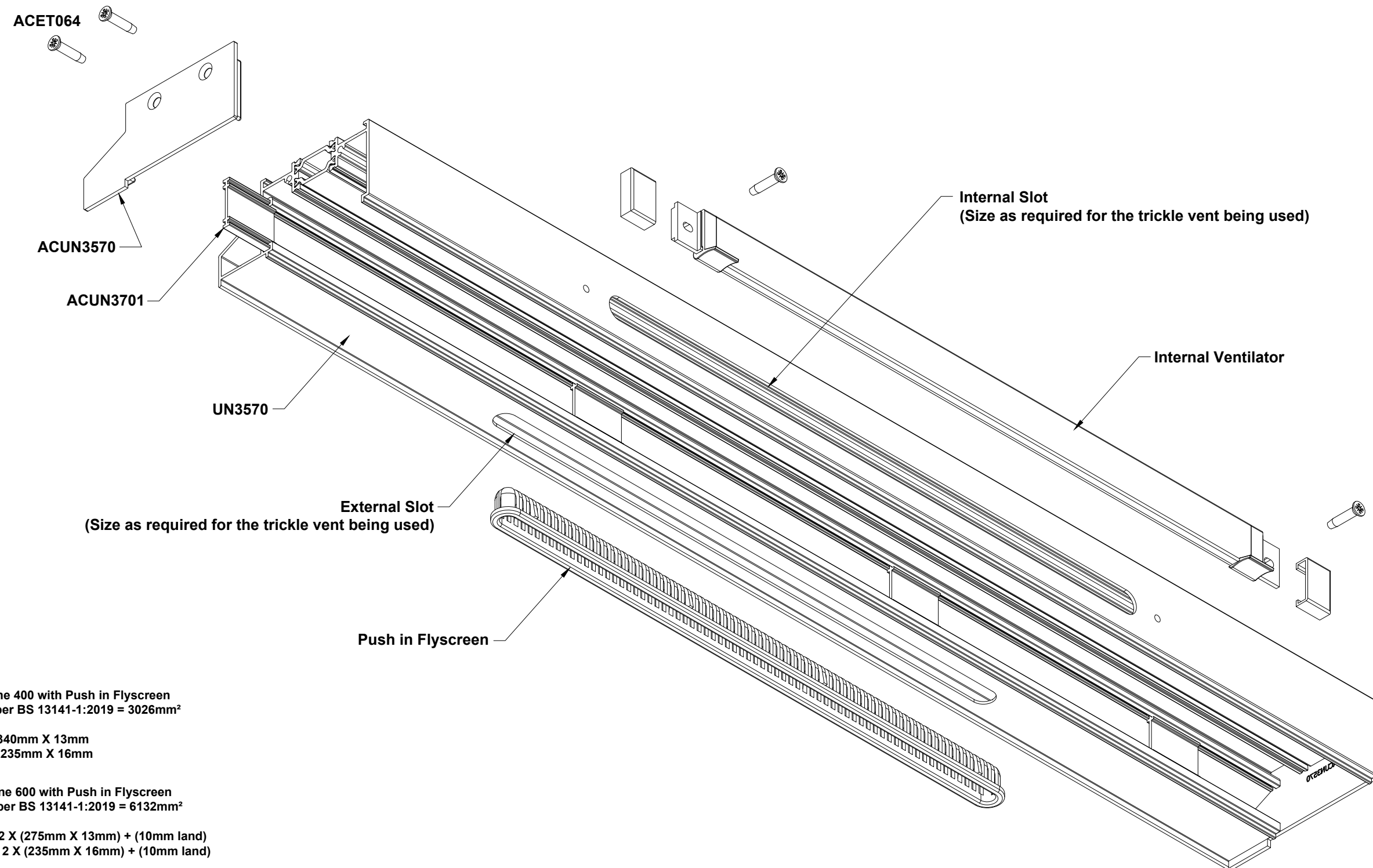
Do Not Scale From This Drawing

ACET149 Fitting Instructions



Do Not Scale From This Drawing

Trickle Vent



Do Not Scale From This Drawing

Section F



Sawing Tables

Open In

Single Door..... F03 - F10

Heritage Single Door..... F11 - F13

Double Door Lift Lever..... F14 - F18

Double Door Finger Bolt..... F19 - F22

Heritage Double Door..... F23 - F27

Open Out

Single Door..... F28 - F30

Heritage Single Door..... F31 - F33

Double Door Lift Lever..... F34 - F36

Double Door Finger Bolt..... F37 - F39

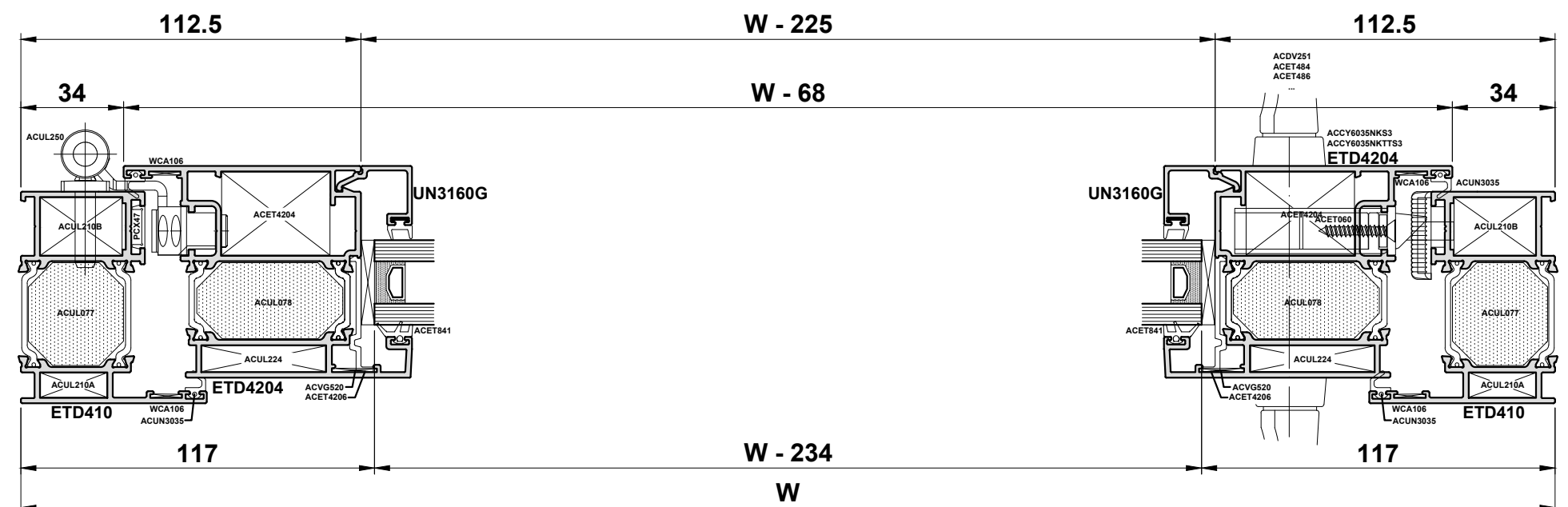
Heritage Double Door..... F40 - F42

Fan Light F43

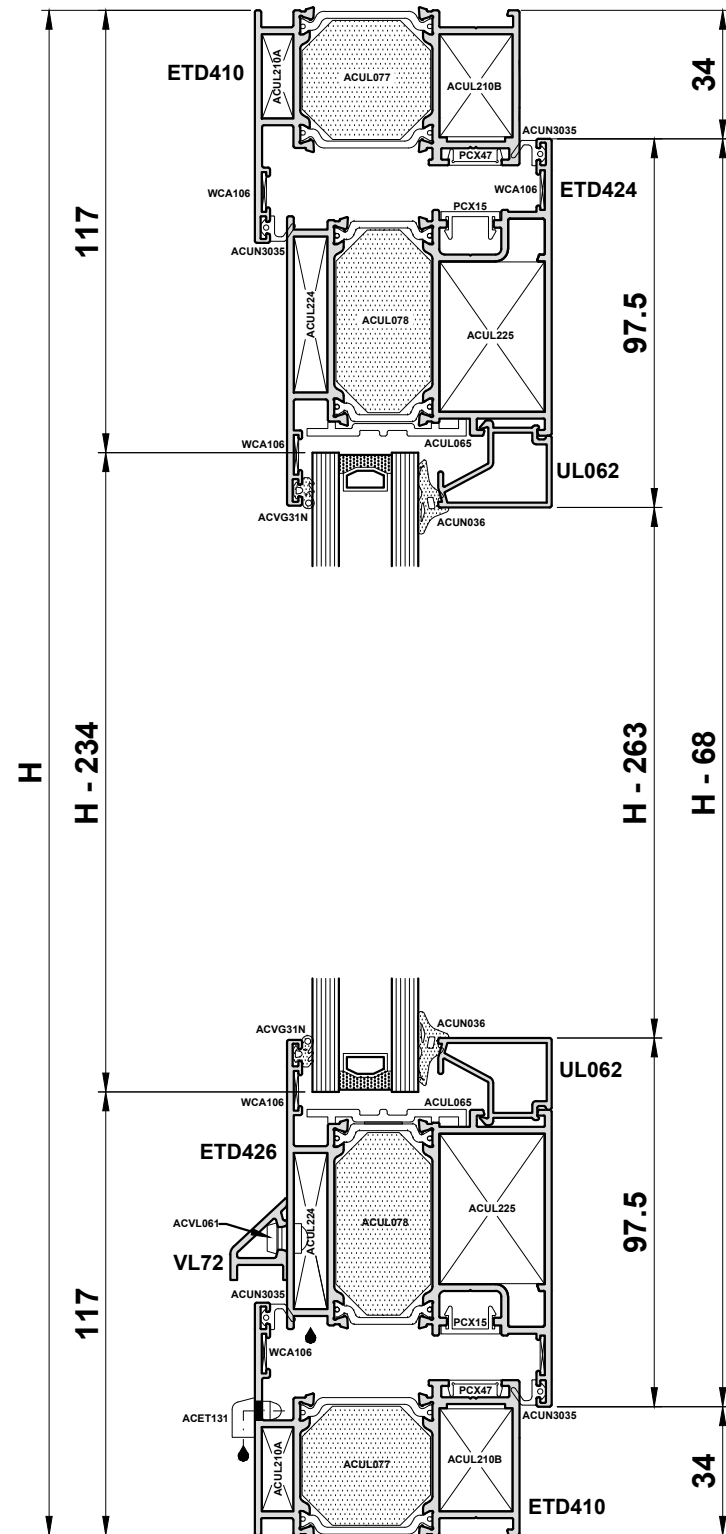
Side Light F44

Section F

Open In Single Door Full Frame Quick-Glaze Bead



Open In Single Door Full Frame



Profile Cutting Schedule				
ETD410	2			W
ETD410	2			H
ETD424	2			W - 68
ETD424	2			H - 68
BEAD	2			H - 263
BEAD	2			W - 225
PCX15	2			H - 106
PCX15	2			W - 106
PCX47	2			H - 82
PCX47	2			W - 82
VL72	1			W - 144

MIDRAIL	Glass Sizes			
	ETD430	1		W - 225
	BEAD	4		W - 225
	BEAD	2		H1 - 190
	BEAD	2		H2 - 190

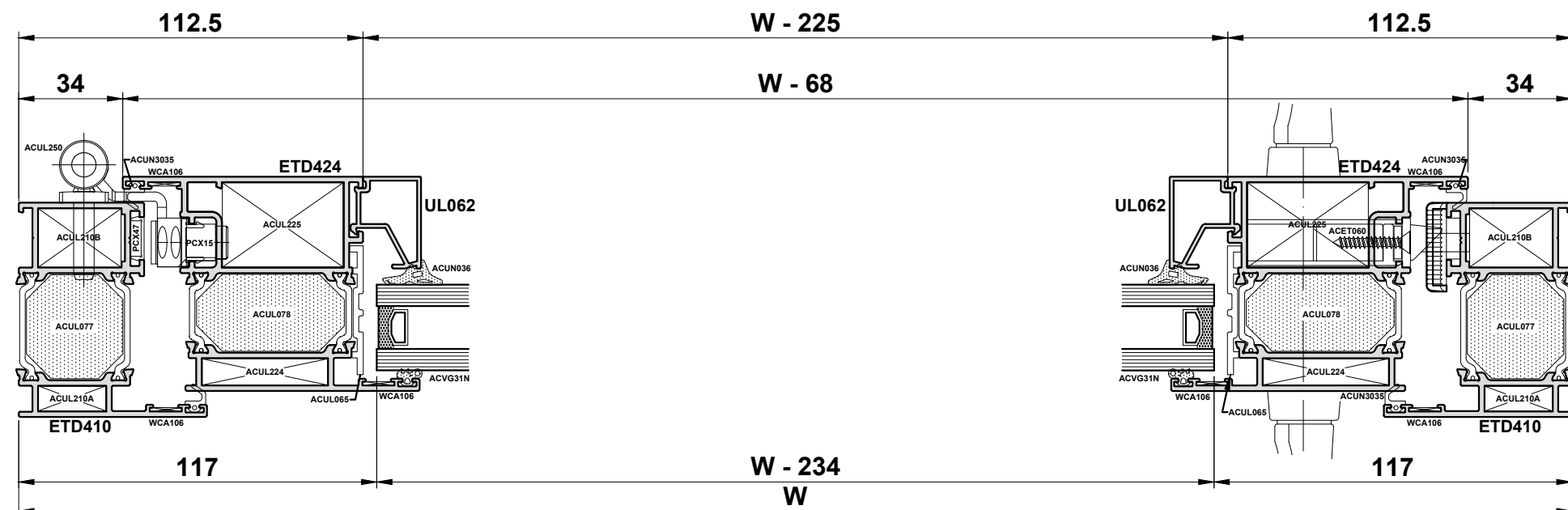
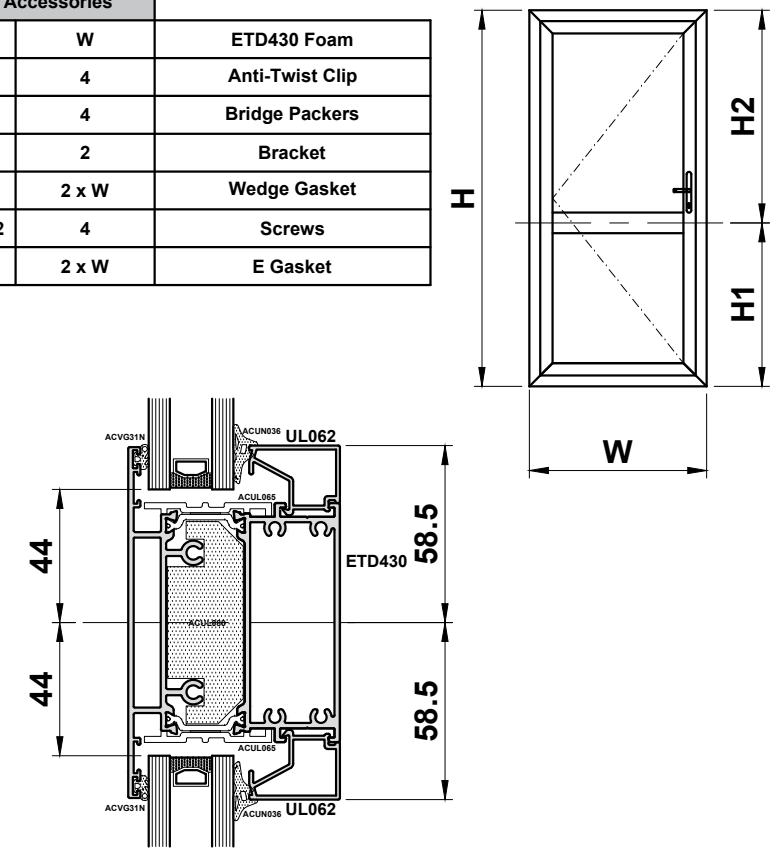
Glass Sizes		
Without ETD430	H - 234	W - 234
Top Glass With ETD430	H2 - 161	W - 234
Bottom Glass With ETD430	H1 - 161	W - 234

Accessories		
ACCY6035S3	1	Euro Cylinder
**	**	Handles
ACET060	16	Screws for Lock
ACET131	2	Drainage Cap
ACET475	2	Run Up Block
ACIM062	12	Screw for ACUL250
ACUL065	10	Bridge Packers
ACUL077	2 x W & 2 x H	Outer Frame Foam
ACUL078	2 x W & 2 x H	Sash Foam
ACUL210A	4	Outer Frame Cleat
ACUL210B	4	Outer Frame Cleat
ACUL224	4	Sash Cleat
ACUL225	4	Sash Cleat
ACUL250	3	Hinge
ACUN036	2 x W & 2 x H	Wedge Gasket
ACUN3035	4 x W & 4 x H	Flipper Gasket
ACUN3512	9	Screw for ACUL250
ACVG31N	2 x W & 2 x H	E Gasket
ACVL059 / ACVL072	1 Pair	VL72 End Cap
ACVL061	W/300 + 2	VL72 Rivet
WCA106	12	Chevrans
*	1	Primary Lock

*See Page E20 for lock options.

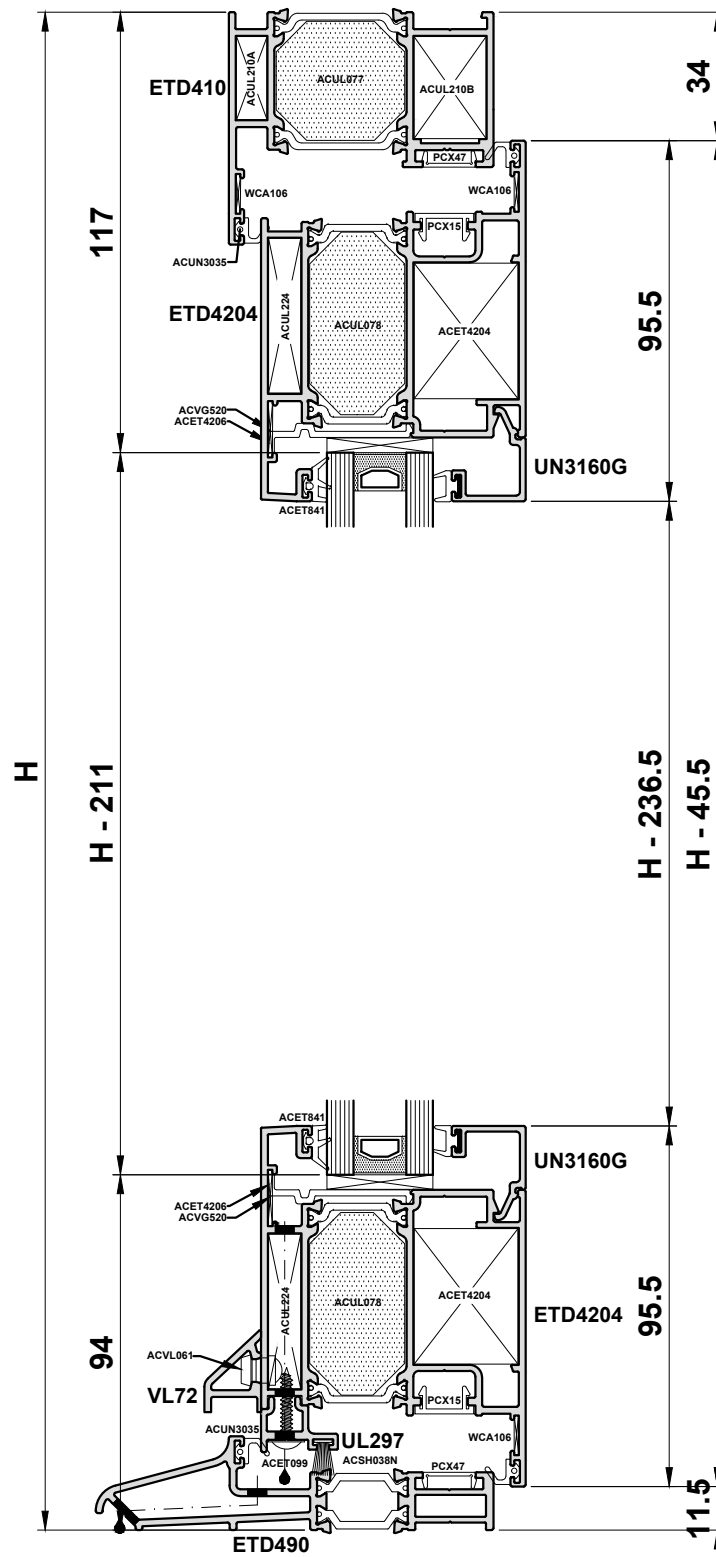
**See B & E for handle options.

Midrail Accessories		
ACUL080	W	ETD430 Foam
ACUL025	4	Anti-Twist Clip
ACUL065	4	Bridge Packers
ACUL299	2	Bracket
ACUN036	2 x W	Wedge Gasket
ACUN3512	4	Screws
ACVG31N	2 x W	E Gasket



Do Not Scale From This Drawing

Open In Single Door ETD490 Low Rebate Threshold Quick-Glaze Bead



Profile Cutting Schedule				
ETD410	1			W
ETD410	2			H - 15.5
ETD490	1			W
ETD4204	2			W - 68
ETD4204	2			H - 45.5
UL297	1			W - 113
UN3160G	2			H - 236.5
UN3160G	2			W - 225
PCX15	2			H - 84.5
PCX15	2			W - 106
PCX47	2			H - 56.5
PCX47	2			W - 82
VL72	1			W - 144

MIDRAIL	ETD4301	1		W - 225
	UN3160G	4		W - 225
	UN3160G	2		H1 - 165
	UN3160G	2		H2 - 187.5

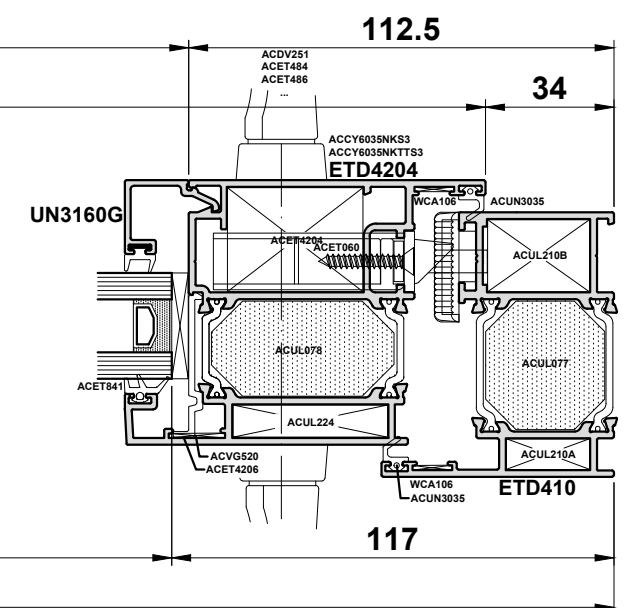
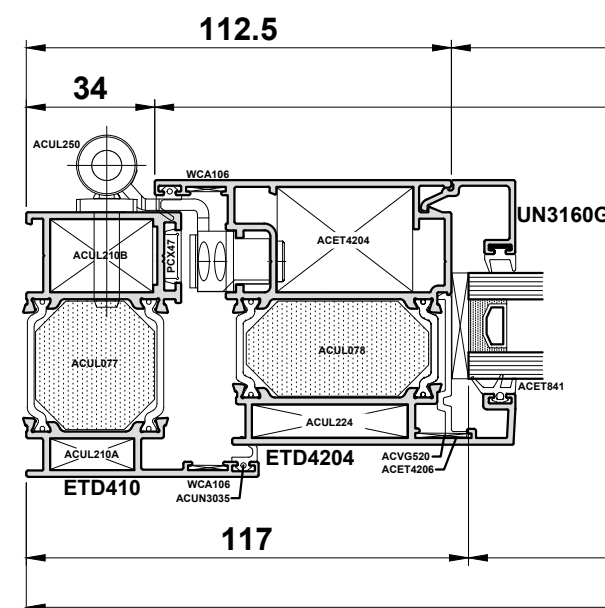
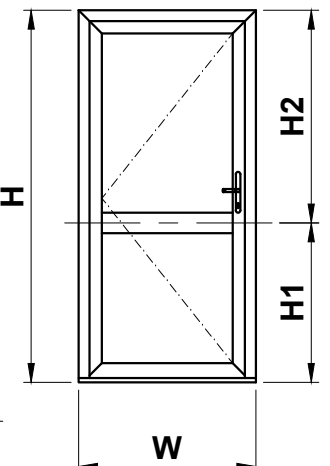
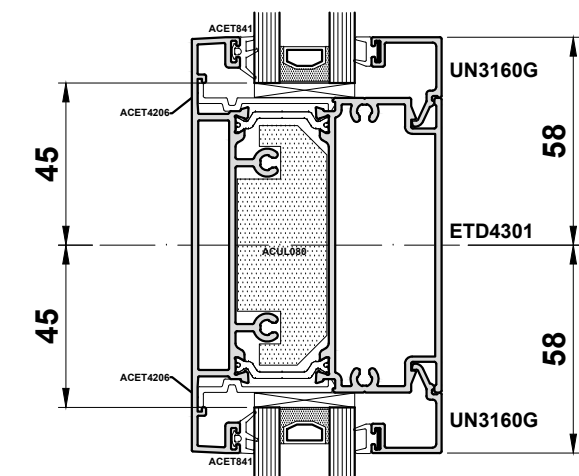
Glass Sizes		
Without ETD4301	H - 211	W - 234
Top Glass With ETD4301	H2 - 162	W - 234
Bottom Glass With ETD4301	H1 - 139	W - 234

Accessories		
ACCY6035S3	1	Euro Cylinder
**	**	Handles
ACET060	4	Screw for ACET4190
ACET060	16	Screw for Lock
ACET099	W - 100 / 300	Screw for UL297
ACET4190	Pair	ETD490 End Cap
ACET4197	Pair	UL297 End Cap
ACET4204	4	Sash Cleat
ACET4206	10	Bridge Packers
ACET475	2	Run Up Block
ACET841	2 x W & 2 x H	E Gasket
ACIM062	12	Screw for ACUL250
ACSH038N	W	Woolpile
ACUL077	W & 2 x H	Outer Frame Foam
ACUL078	2 x W & 2 x H	Sash Foam
ACUL210A	2	Outer Frame Cleat
ACUL210B	2	Outer Frame Cleat
ACUL224	4	Sash Cleat
ACUL250	3	Hinge
ACUL295	2	Low Threshold Bracket
ACUN3035	4 x W & 4 x H	Flipper Gasket
ACUN3512	9	Screws for ACUL250
ACVL059 / ACVL072	1 Pair	VL72 End Cap

ACVL061	W/300 + 2	VL72 Rivet
WCA106	10	Chevrans
*	1	Primary Lock

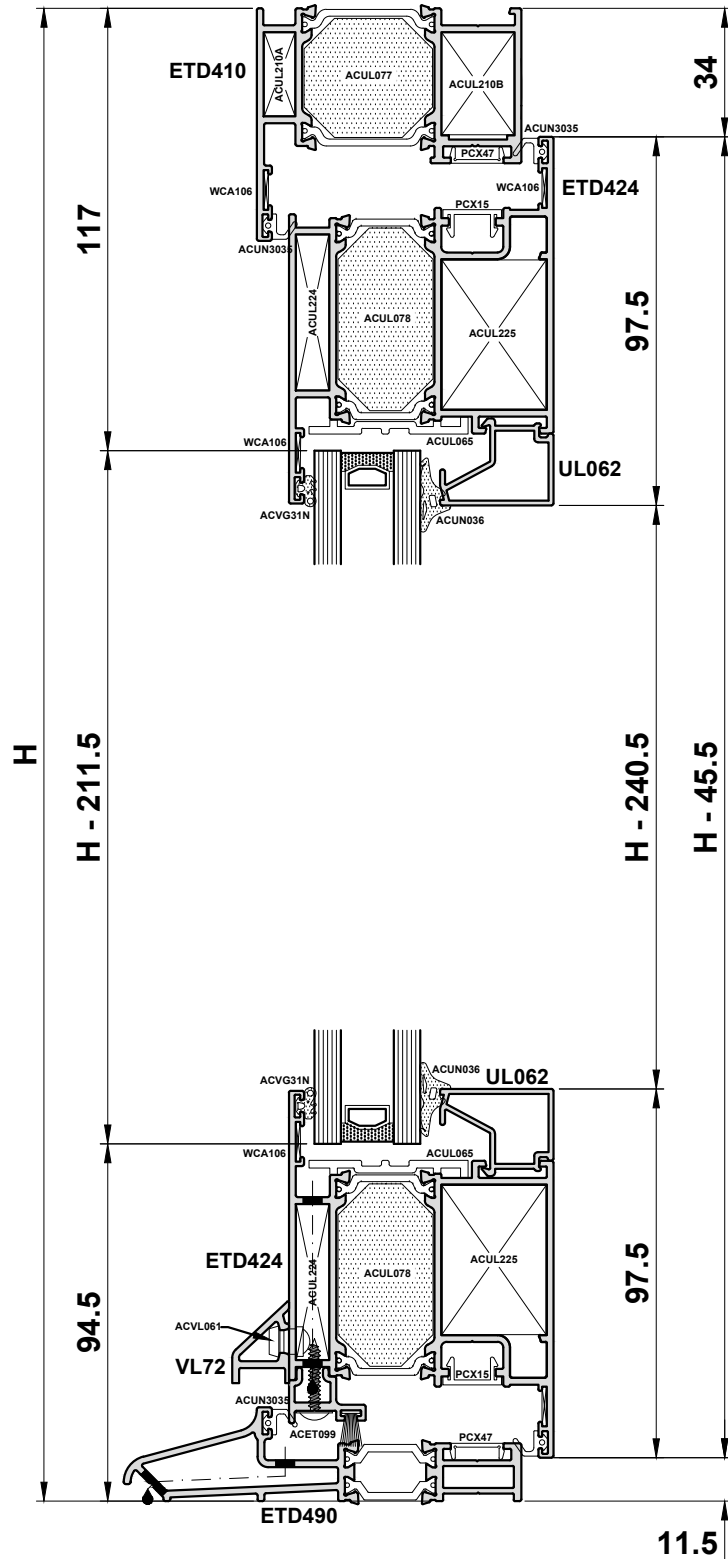
*See Page E20 for lock options.
**See B & E for handle options.

Midrail Accessories		
ACET841	2 x W	E Gasket
ACUL080	W	ETD4301 Foam
ACUN3512	4	Screws
ACET4206	4	Bridge Packers



Do Not Scale From This Drawing

Open In Single Door ETD490 Low Rebate Threshold



Profile Cutting Schedule					
ETD410	1				W
ETD410	2				H - 15.5
ETD490	1				W
ETD424	2				W - 68
ETD424	2				H - 45.5
UL297	1				W - 113
BEAD	2				H - 240.5
BEAD	2				W - 225
PCX15	2				H - 84.5
PCX15	2				W - 106
PCX47	2				H - 56.5
PCX47	2				W - 82
VL72	1				W - 144

MIDRAIL	ETD430	1			W - 225
	BEAD	4			W - 225
	BEAD	2			H1 - 167.5
	BEAD	2			H2 - 190

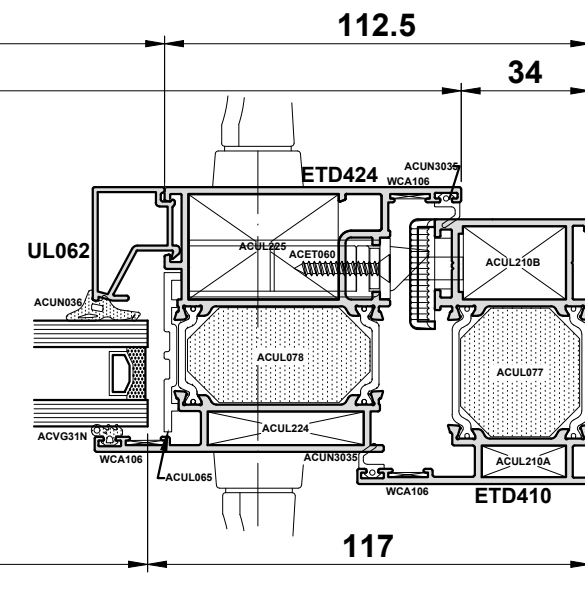
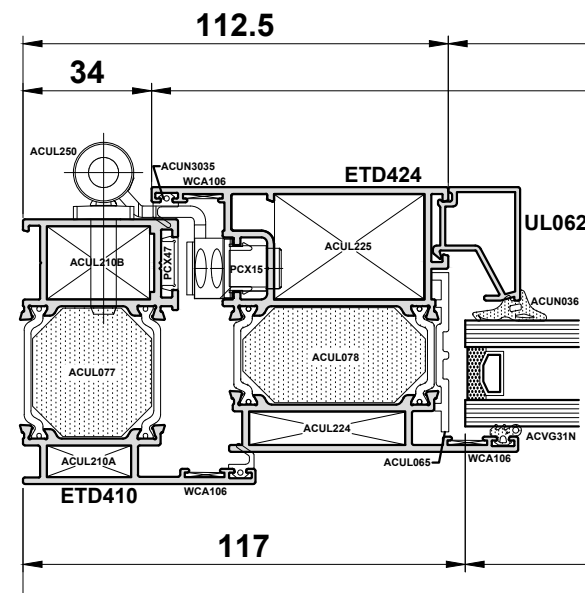
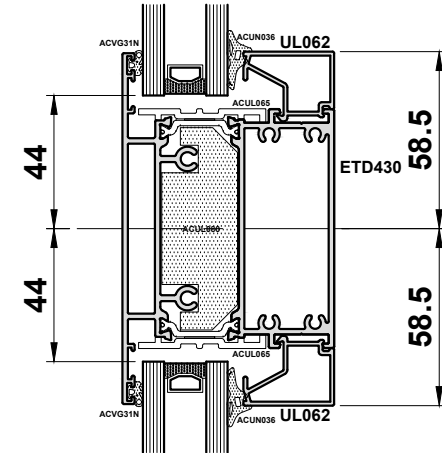
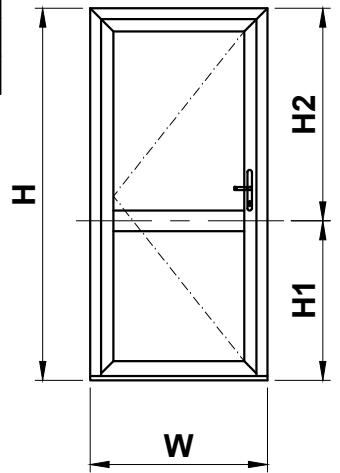
Glass Sizes		
Without ETD430	H - 211.5	W - 234
Top Glass With ETD430	H2 - 161	W - 234
Bottom Glass With ETD430	H1 - 138.5	W - 234

Accessories		
ACCY6035S3	1	Euro Cylinder
**	**	Handles
ACET060	4	Screw for ACET4190
ACET060	16	Screw for Lock
ACET099	W - 100 / 300	Screw for UL297
ACET4190	Pair	ETD490 End Cap
ACET4197	Pair	UL297 End Cap
ACET475	2	Run Up Block
ACIM062	12	Screw for ACUL250
ACSH038N	W	Woolpile
ACUL025	2	Anti-Twist Clip
ACUL065	10	Bridge Packers
ACUL077	W & 2 x H	Outer Frame Foam
ACUL078	2 x W & 2 x H	Sash Foam
ACUL210A	2	Outer Frame Cleat
ACUL210B	2	Outer Frame Cleat
ACUL224	4	Sash Cleat
ACUL225	4	Sash Cleat
ACUL250	3	Hinge
ACUL295	2	Low Threshold Bracket
ACUN036	2 x W & 2 x H	Wedge Gasket
ACUN3035	4 x W & 4 x H	Flipper Gasket
ACUN3512	9	Screws for ACUL250
ACVG31N	2 x W & 2 x H	E Gasket
ACVL059 / ACVL072	1 Pair	VL72 End Cap

ACVL061	W/300 + 2	VL72 Rivet
WCA106	10	Chevrans
*	1	Primary Lock

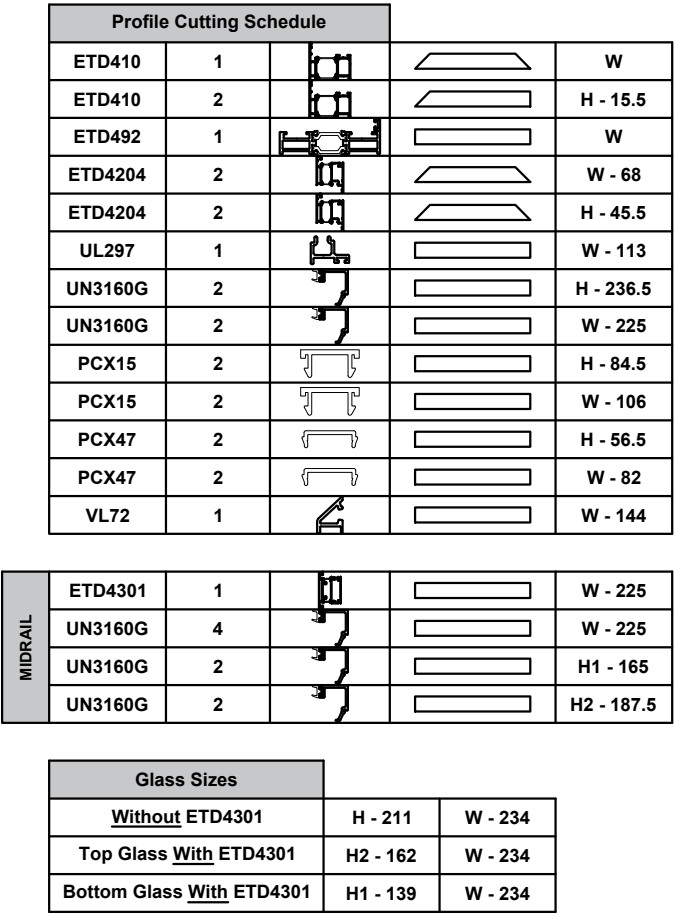
*See Page E20 for lock options.
**See B & E for handle options.

Midrail Accessories		
ACUL080	W	ETD430 Foam
ACUL025	4	Anti-Twist Clip
ACUL065	4	Bridge Packers
ACUL299	2	Bracket
ACUN036	2 x W	Wedge Gasket
ACUN3512	4	Screws
ACVG31N	2 x W	E Gasket



Do Not Scale From This Drawing

Open In Single Door ETD492 Low Rebate Threshold Quick-Glaze Bead

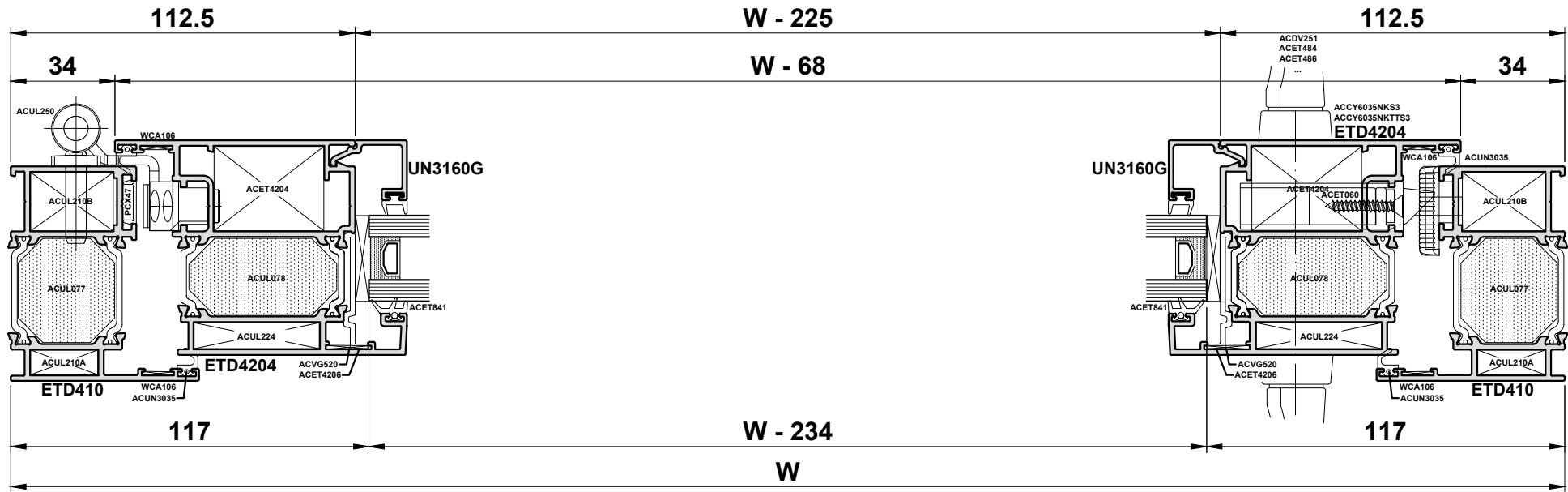
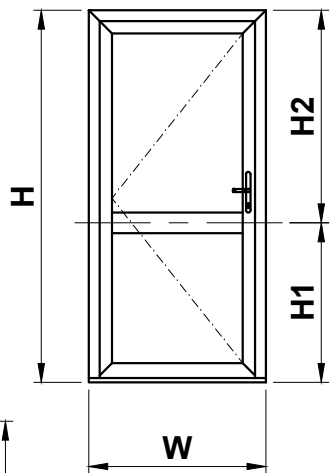
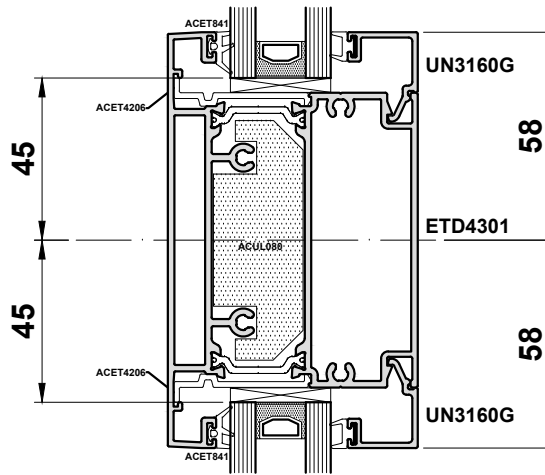


Accessories		
ACCY6035S3	1	Euro Cylinder
**	**	Handles
ACET060	4	Screw for ACET4190
ACET060	16	Screw for Lock
ACET099	W - 100 / 300	Screw for UL297
ACET4192	Pair	ETD492 End Cap
ACET4197	Pair	UL297 End Cap
ACET4204	4	Sash Cleat
ACET4206	10	Bridge Packers
ACET475	2	Run Up Block
ACET841	2 x W & 2 x H	E Gasket
ACIM062	12	Screw for ACUL250
ACSH038N	W	Woolpile
ACUL077	W & 2 x H	Outer Frame Foam
ACUL078	2 x W & 2 X H	Sash Foam
ACUL210A	2	Outer Frame Cleat
ACUL210B	2	Outer Frame Cleat
ACUL224	4	Sash Cleat
ACUL250	3	Hinge
ACUL295	2	Low Threshold Bracket
ACUN3035	4 x W & 4 x H	Flipper Gasket
ACUN3512	9	Screws for ACUL250
ACVL059 / ACVL072	1 Pair	VL72 End Cap

ACVL061	W/300 + 2	VL72 Rivet
WCA106	10	Chevrons
*	1	Primary Lock

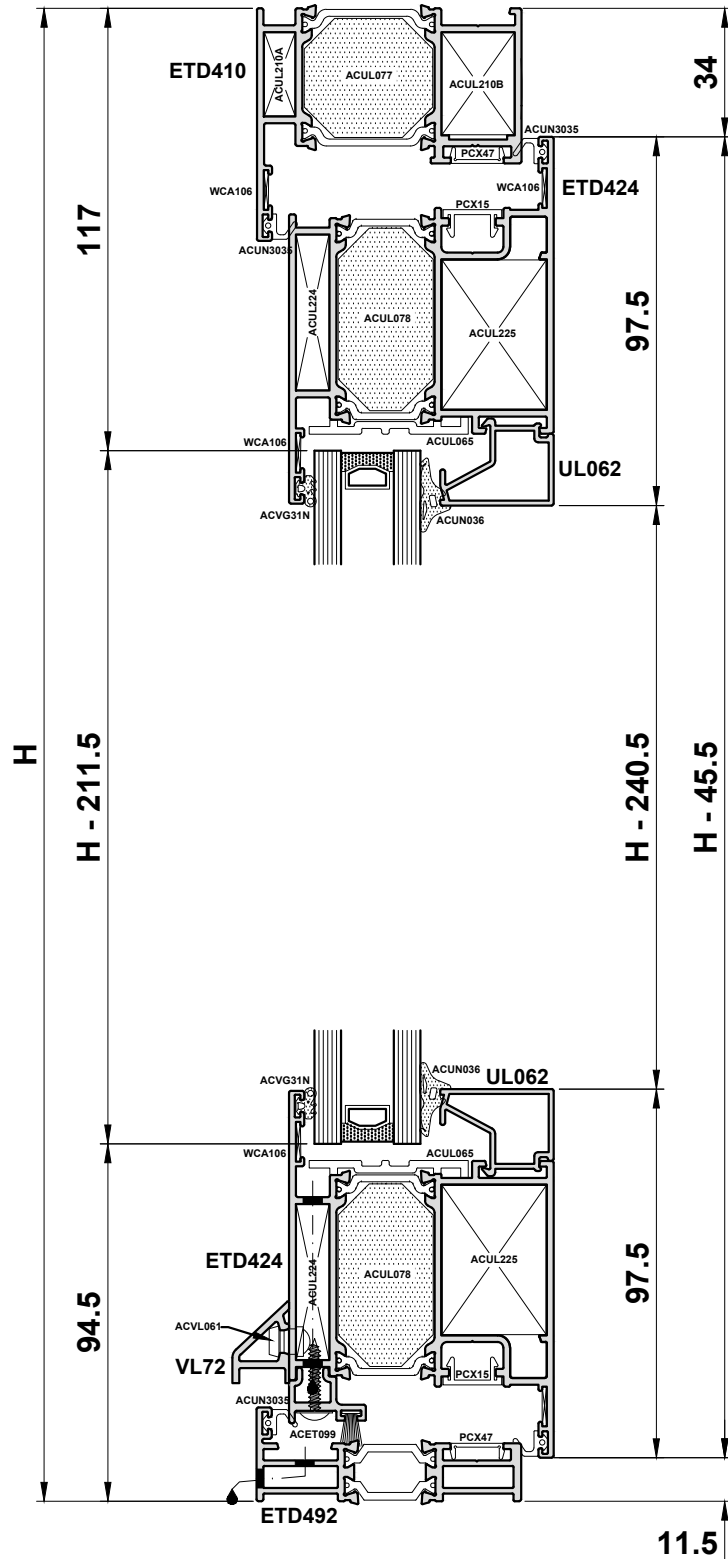
*See Page E20 for lock options.
 **See B & E for handle options.

Midrail Accessories		
ACET841	2 x W	E Gasket
ACUL080	W	ETD4301 Foam
ACUN3512	4	Screws
ACET4206	4	Bridge Packers



Do Not Scale From This Drawing

Open In Single Door ETD492 Low Rebate Threshold



Profile Cutting Schedule					
ETD410	1				W
ETD410	2				H - 15.5
ETD492	1				W
ETD424	2				W - 68
ETD424	2				H - 45.5
UL297	1				W - 113
BEAD	2				H - 240.5
BEAD	2				W - 225
PCX15	2				H - 84.5
PCX15	2				W - 106
PCX47	2				H - 56.5
PCX47	2				W - 82
VL72	1				W - 144

MIDRAIL	ETD430	1			W - 225
	BEAD	4			W - 225
	BEAD	2			H1 - 167.5
	BEAD	2			H2 - 190

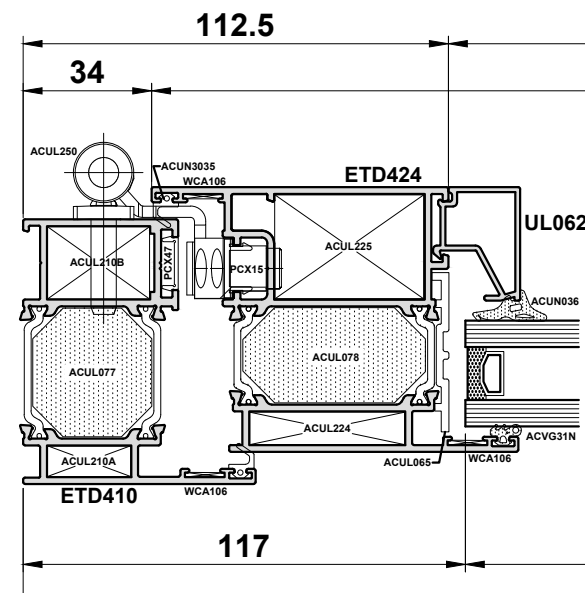
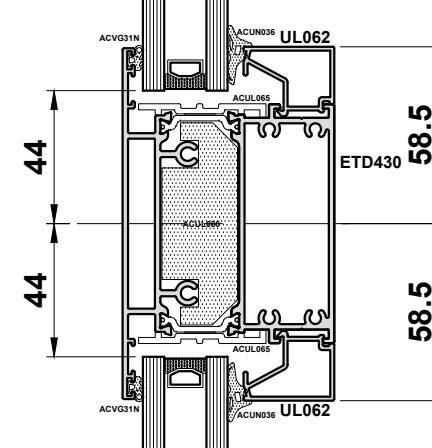
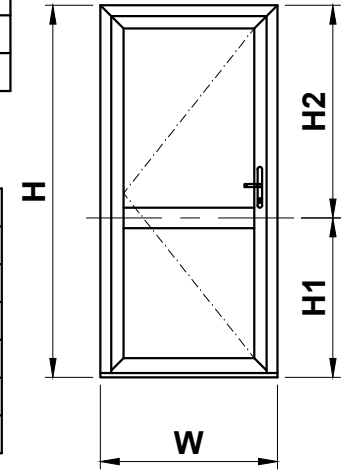
Glass Sizes		
Without ETD430	H - 211.5	W - 234
Top Glass With ETD430	H2 - 161	W - 234
Bottom Glass With ETD430	H1 - 138.5	W - 234

Accessories		
ACCY6035S3	1	Euro Cylinder
**	**	Handles
ACET060	4	Screw for ACET4190
ACET060	16	Screw for Lock
ACET099	W - 100 / 300	Screw for UL297
ACET4192	Pair	ETD492 End Cap
ACET4197	Pair	UL297 End Cap
ACET475	2	Run Up Block
ACIM062	12	Screw for ACUL250
ACSH038N	W	Woolpile
ACUL025	2	Anti-Twist Clip
ACUL065	10	Bridge Packers
ACUL077	W & 2 x H	Outer Frame Foam
ACUL078	2 x W & 2 x H	Sash Foam
ACUL210A	2	Outer Frame Cleat
ACUL210B	2	Outer Frame Cleat
ACUL224	4	Sash Cleat
ACUL225	4	Sash Cleat
ACUL250	3	Hinge
ACUL295	2	Low Threshold Bracket
ACUN036	2 x W & 2 x H	Wedge Gasket
ACUN3035	4 x W & 4 x H	Flipper Gasket
ACUN3512	9	Screws for ACUL250
ACVG31N	2 x W & 2 x H	E Gasket
ACVL059 / ACVL072	1 Pair	VL72 End Cap

ACVL061	W/300 + 2	VL72 Rivet
WCA106	10	Chevrans
*	1	Primary Lock

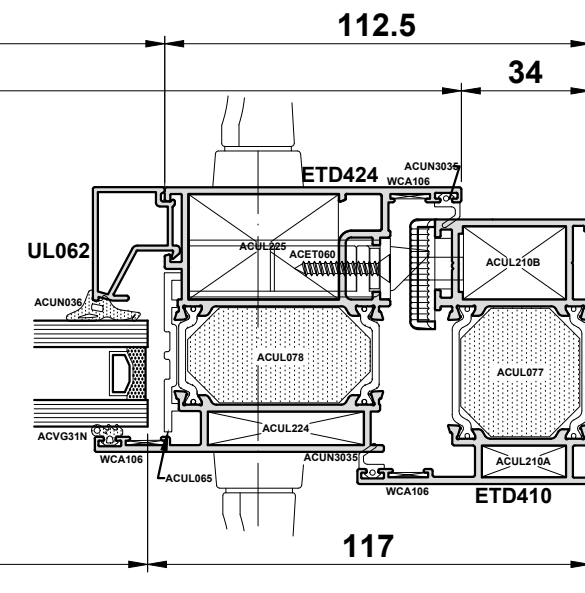
*See Page E20 for lock options.
**See B & E for handle options.

Midrail Accessories		
ACUL080	W	ETD430 Foam
ACUL025	4	Anti-Twist Clip
ACUL065	4	Bridge Packers
ACUL299	2	Bracket
ACUN036	2 x W	Wedge Gasket
ACUN3512	4	Screws
ACVG31N	2 x W	E Gasket



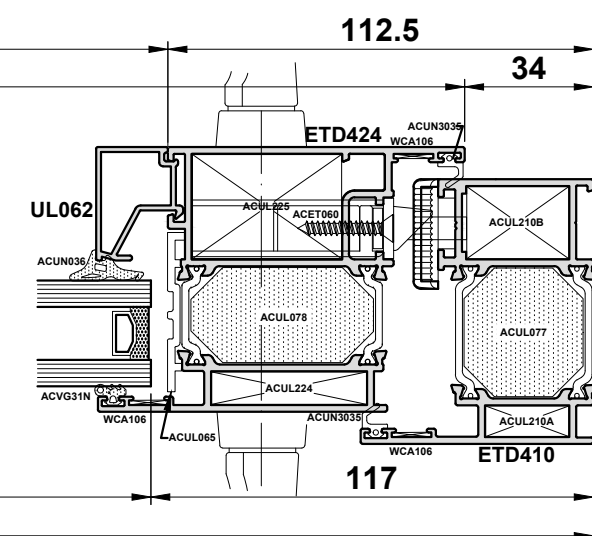
W - 225
W - 68

W - 234
W



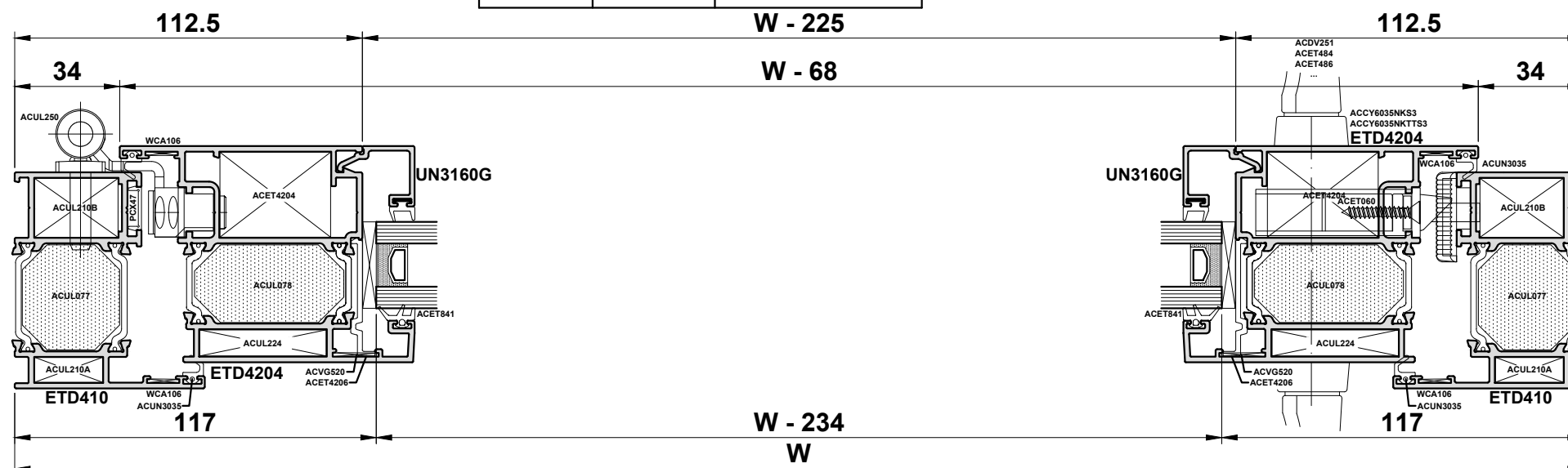
Do Not Scale From This Drawing

Open In Single Door Low Ramp Threshold



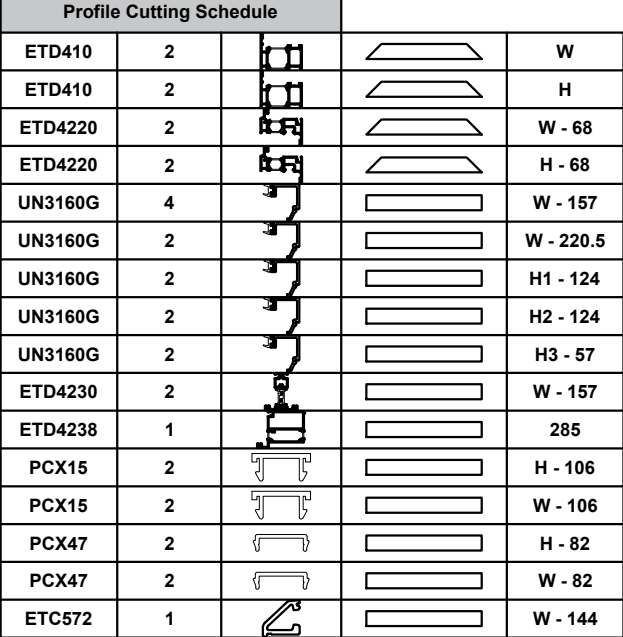


Midrail Accessories		
ACET841	2 x W	E Gasket
ACUL080	W	ETD4301 Foam
ACUN3512	4	Screws
ACET4206	4	Bridge Packers

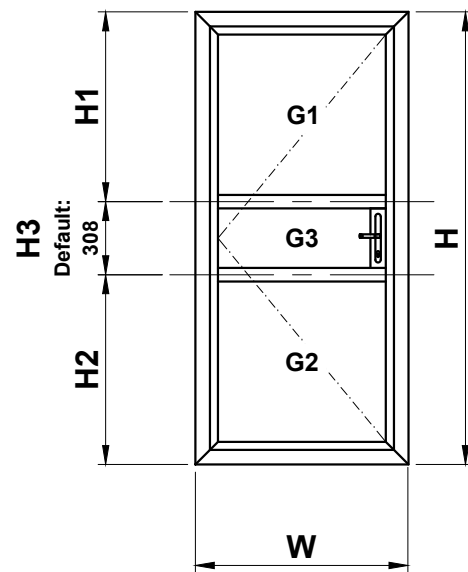


Do Not Scale From This Drawing

Open In Heritage Single Door Full Frame Quick-Glaze Bead



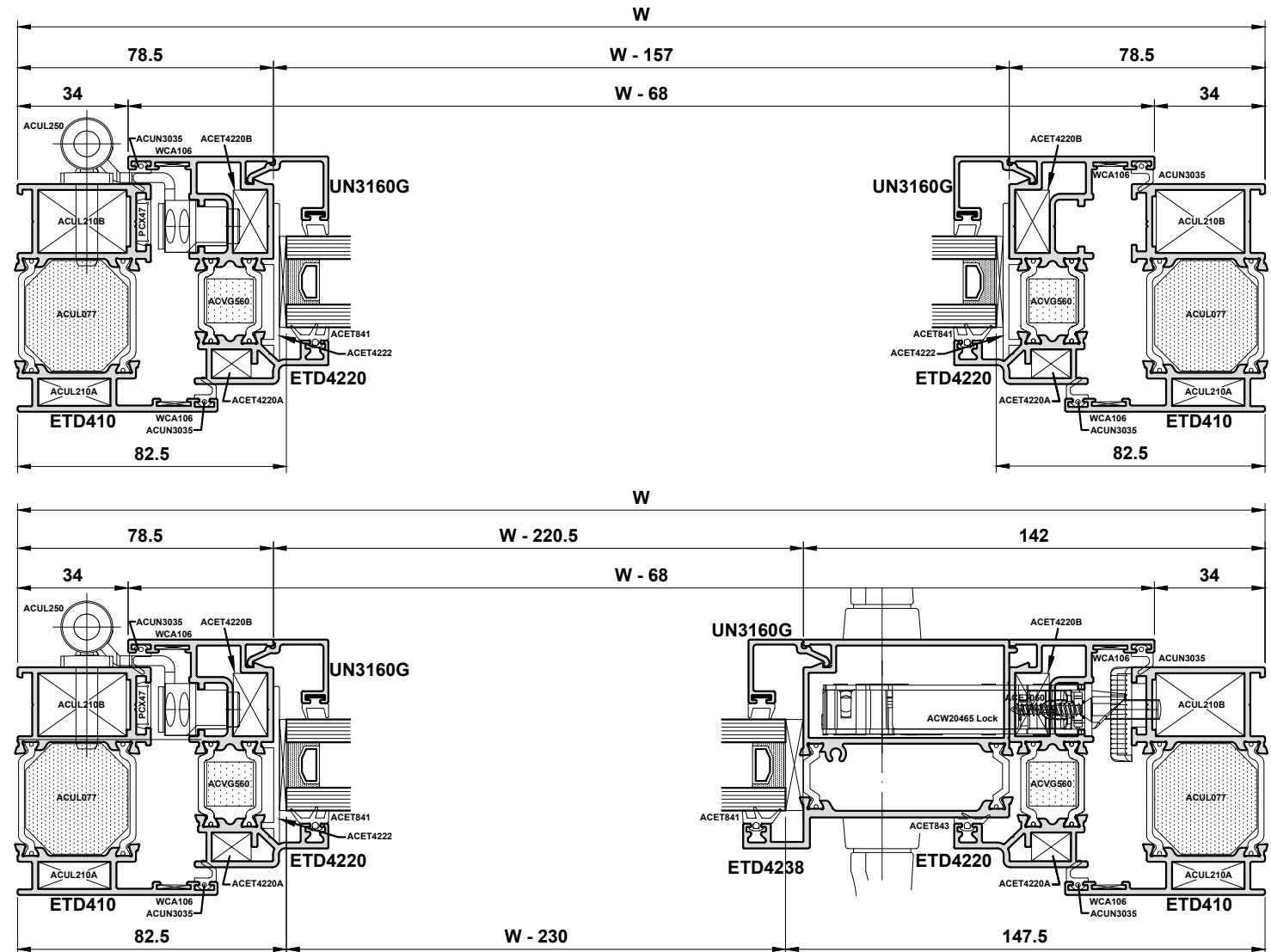
Glass Sizes		
G1	H1 - 98	W - 165
G2	H2 - 98	W - 165
G3	H3 - 31	W - 230



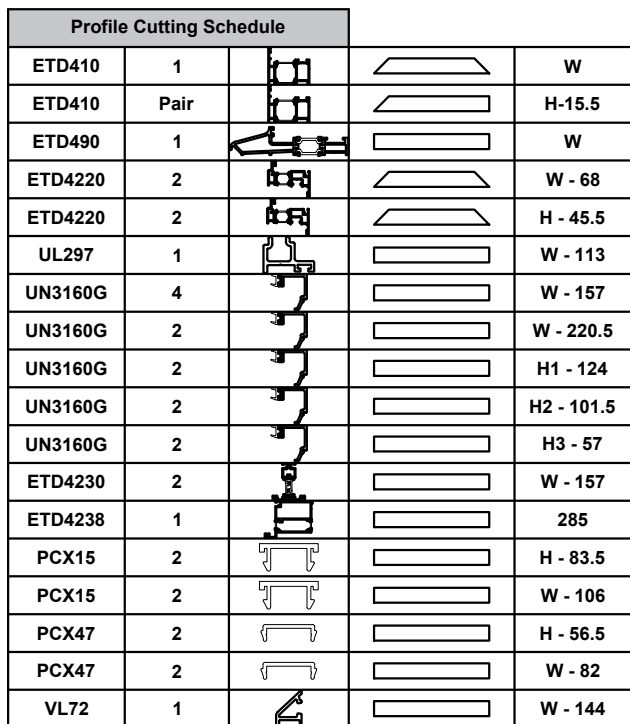
Accessories		
ACUL210A	4	Outerframe Cleat
ACUL210B	4	Outerframe Cleat
ACET4220A	4	Sash Cleat
ACET4220B	4	Sash Cleat
ACET4222	7	Bridge Packers
WCA106	8	Chevrons
ACUN3035	4W + 4H	Flipper Gasket
ACUL077	2W + 2H	Outerframe Foam
ACVG560	2W + 2H	Sash Foam
ACET843	1 @ 385mm	Lock Box E Gasket
E Gasket	6W + 2H	Glazing Gasket

ACET475	2	Run Up Block
ACET062	4	Transom Screws
ACET066	6	Transom Screws
ACVL061	W/300 + 2	Pop Rivets
ACET572	1 Pair	Drip End Cap
ACUL250	3	Hinges
ACUN3512	9	Hinge Screw
ACUN3577	12	Hinge Screw
ACET131	2	Drainage Cap
ACW20465	1	Lock
ACW20066 L/R	1	Center Keep

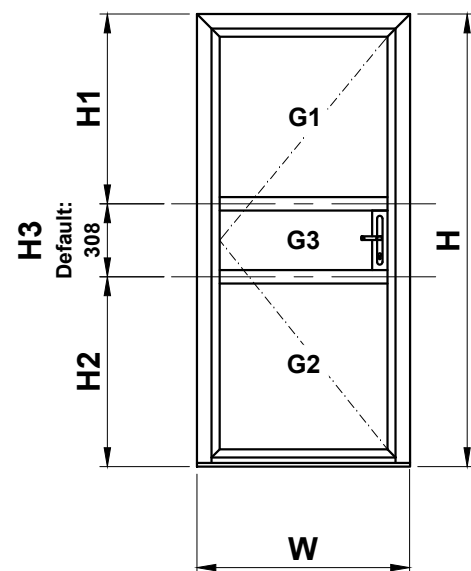
ACW20367	4	Keep
ACUN3544	16	Screw For Lock
Page E50	1	Euro Cylinder
Page E50	1	Handles



Do Not Scale From This Drawing



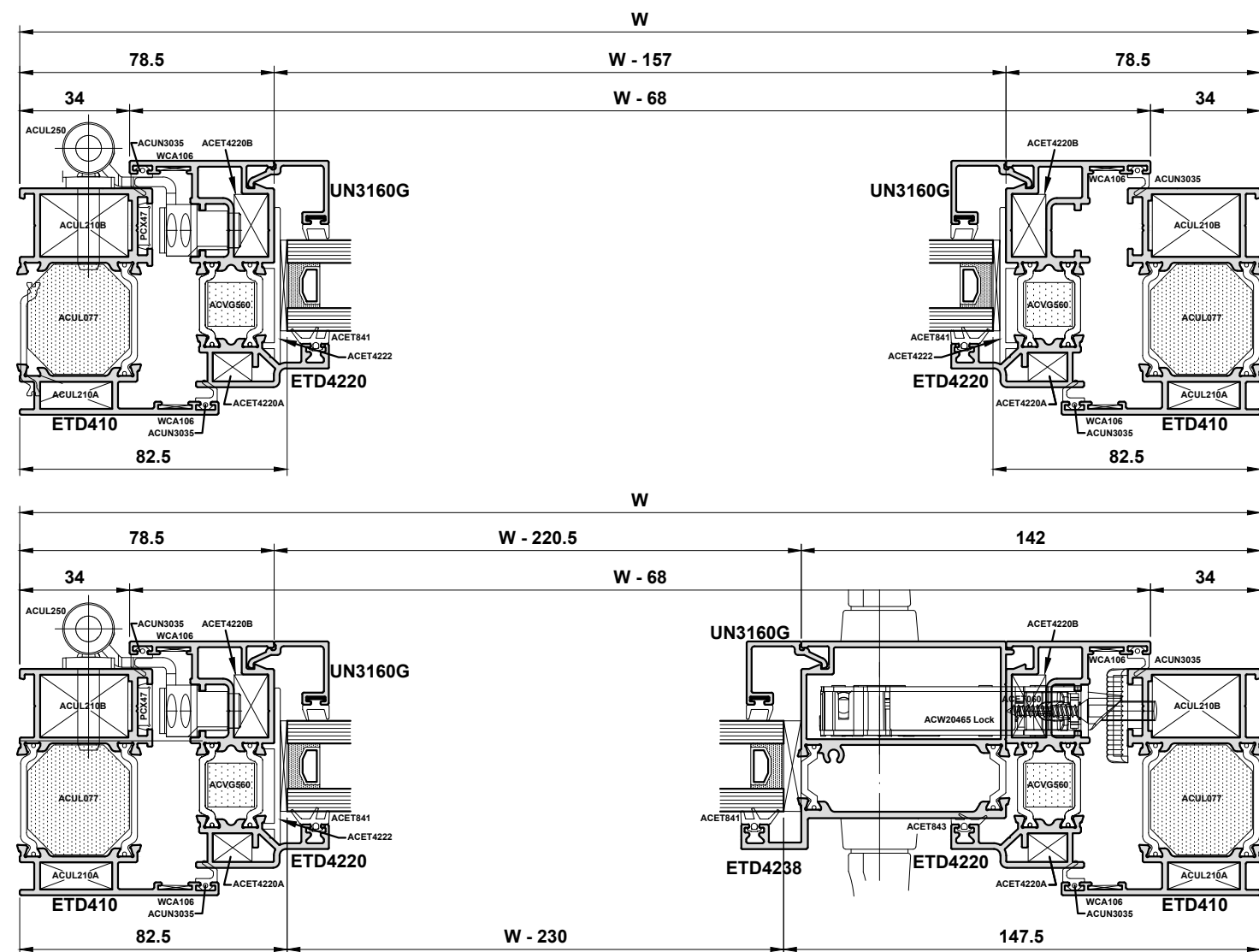
Glass Sizes	
G1	H1 - 98 W - 165
G2	H2 - 75.5 W - 165
G3	H3 - 31 W - 230



Accessories		
ACUL210A	2	Outerframe Cleat
ACUL210B	2	Outerframe Cleat
ACUL025	2	Anti-Twist Clip
ACUL295	2	Low Threshold Bracket
ACMX852	2	M6 x 16 Screw
ACET060	4	Screw For End Cap
ACET099	W - 100 / 300	Screw For UL297
ACET4190	Pair	ETD490 End Cap
ACET4197	Pair	UL297 End Cap
ACET4220A	4	Sash Cleat
ACET4220B	4	Sash Cleat

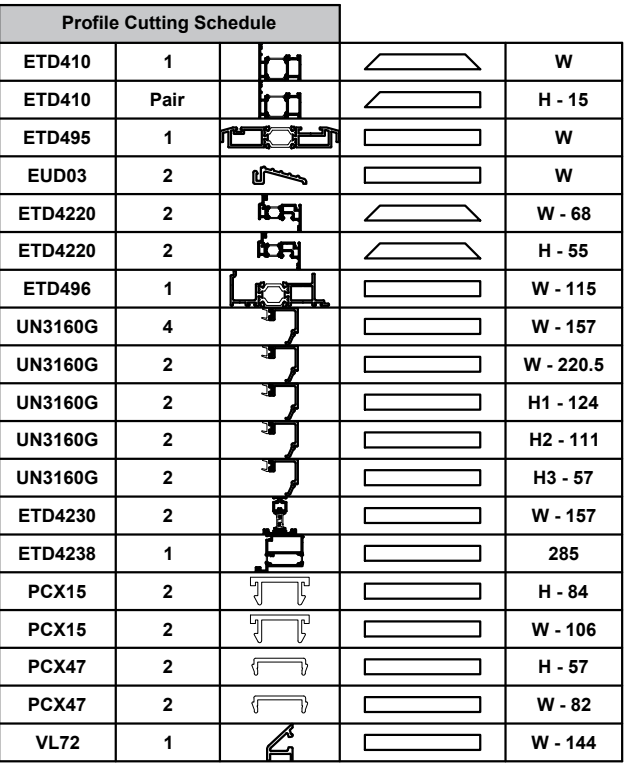
ACET4222	7	Bridge Packers
WCA106	6	Chevrons
ACUN3035	4W + 4H	Flipper Gasket
ACUL077	1W + 2H	Outerframe Foam
ACVG560	2W + 2H	Sash Foam
ACET843	1 @ 385mm	Lock Box E Gasket
E Gasket	6W + 2H	Glazing Gasket
ACSH038N	W - 113	Woolpile
ACET062	4	Transom Screws
ACET066	6	Transom Screws
ACVL061	W/300 + 2	Pop Rivets

ACVL059	1 pair	Drip End Cap
ACUL250	3	Hinges
ACUN3512	9	Hinge Screw
ACUN3577	12	Hinge Screw
ACET131	2	Drainage Cap
ACW20465	1	Lock
ACW20066 L/R	1	Center Keep
ACW20367	4	Keep
ACUN3544	16	Screw For Lock
Page E50	1	Euro Cylinder
Page E50	1	Handles

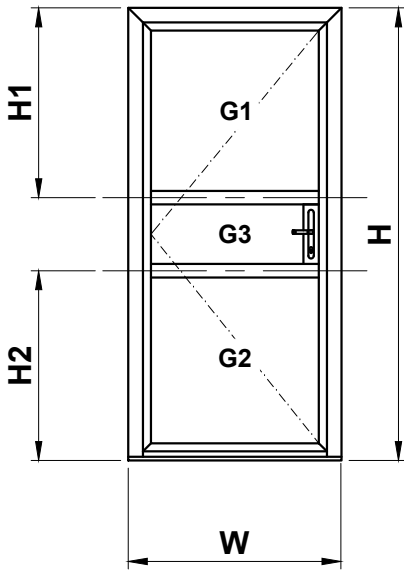


Do Not Scale From This Drawing

Open In Heritage Single Door Low Ramp Quick-Glaze Bead



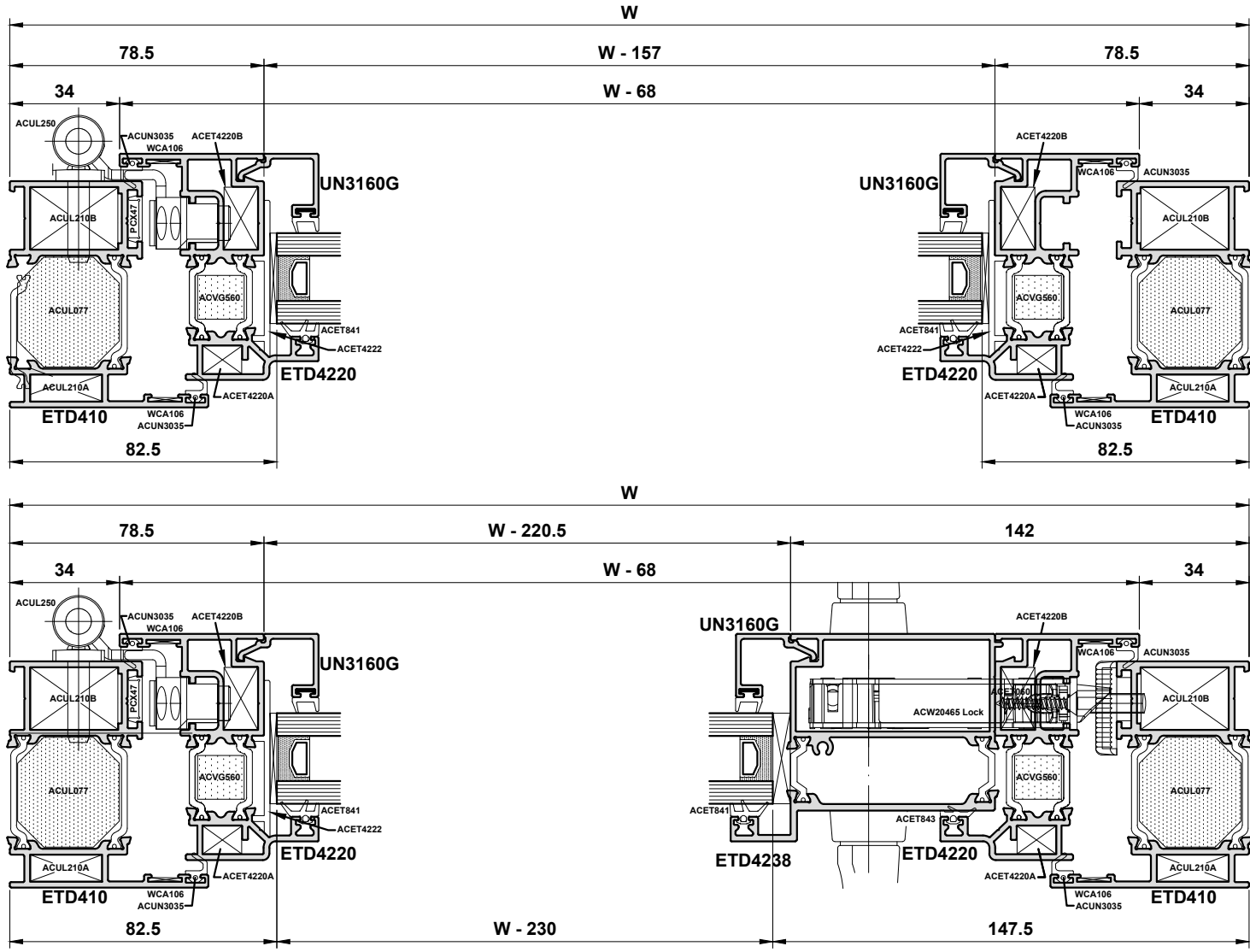
Glass Sizes		
G1	H1 - 98	W - 165
G2	H2 - 85	W - 165
G3	H3 - 31	W - 230



Accessories		
ACUL210A	2	Outerframe Cleat
ACUL210B	2	Outerframe Cleat
ACUL295	2	Low Threshold Bracket
ACMX852	2	M6 x 16 Screw
ACET060	4	Screw For End Cap
ACET4196	Pair	ETD496 End Cap
ACET066	2x W - 100 / 300	Fixing Screw for ETD496
ACET4195	Pair	ETD495 End Cap
ACET4220A	4	Sash Cleat
ACET4220B	4	Sash Cleat
ACET4222	7	Bridge Packers

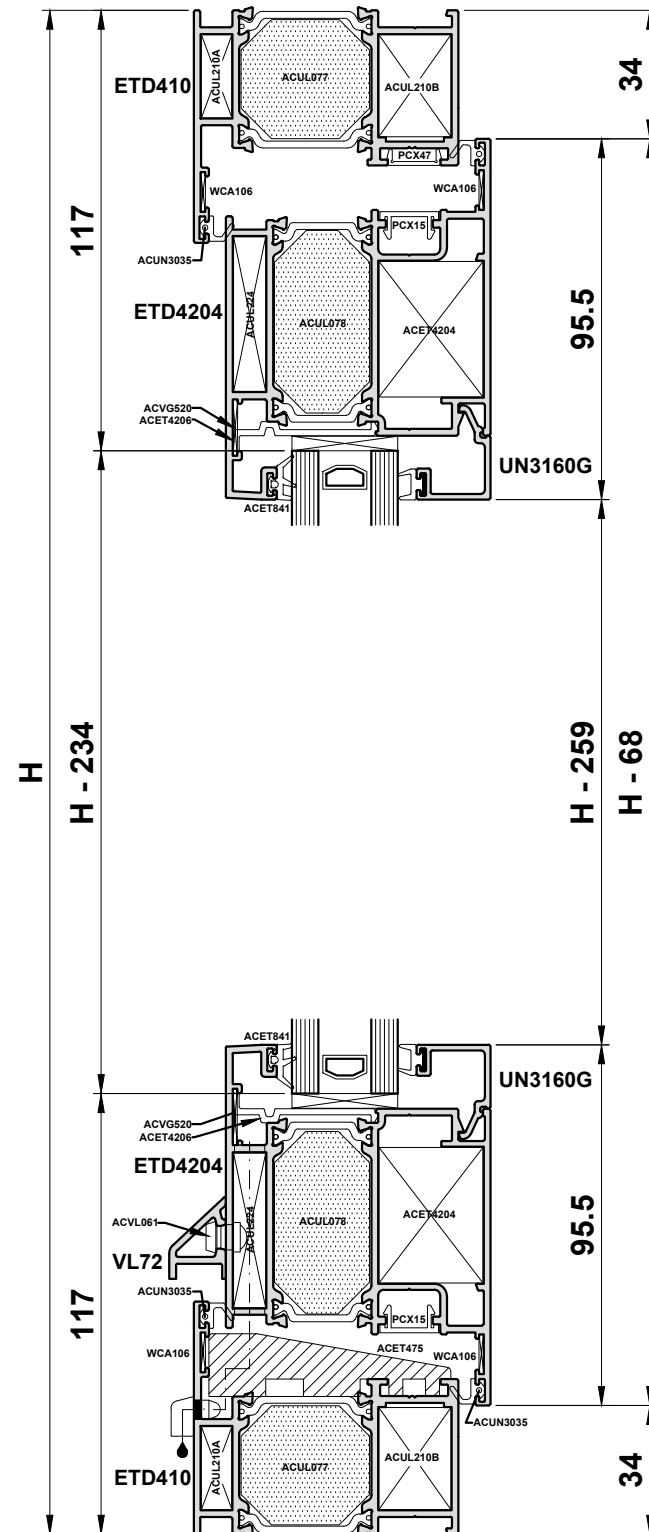
WCA106	6	Chevrons
ACUN3035	4W + 4H	Flipper Gasket
ACUL077	1W + 2H	Outerframe Foam
ACVG560	2W + 2H	Sash Foam
ACET843	1 @ 385mm	Lock Box E Gasket
E Gasket	6W + 2H	Glazing Gasket
ACSH038N	2 x W	Woolpile
ACET234	W	Flipper Gasket
ACET062	4	Transom Screws
ACET066	6	Transom Screws
ACVL061	W/300 + 2	Pop Rivets

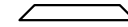
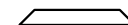
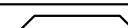
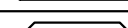
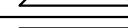
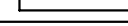
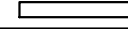
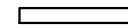
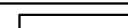
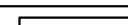
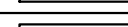
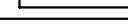
ACVL059	1 pair	Drip End Cap
ACUL250	3	Hinges
ACUN3512	9	Hinge Screw
ACUN3577	12	Hinge Screw
ACET131	2	Drainage Cap
ACW20465	1	Lock
ACW20066 L/R	1	Center Keep
ACW20367	4	Keep
ACUN3544	16	Screw For Lock
Page E50	1	Euro Cylinder
Page E50	1	Handles



Do Not Scale From This Drawing

Open In Double Door Lift Lever Full Frame Quick-Glaze Bead



Profile Cutting Schedule				
ETD410	2			W
ETD410	2			H
ETD4204	2			W / 2 - 36.5
ETD4204	2			H - 68
ETD447	1			H - 110
UN3160G	4			H - 259
UN3160G	4			W / 2 - 152.5
PCX15	4			H - 106
PCX15	4			W / 2 - 74
PCX47	2			H - 56.5
PCX47	1			H - 110
PCX47	2			W - 82
VL72	2			W / 2 - 112.5

MIDRAIL	ETD4302	2			W/2 - 152.5.
	UN3160G	4			W/2 - 152.5.
	UN3160G	2			H1 - 187.5
	UN3160G	2			H2 - 187.5

Glass Sizes		
<u>Without</u> ETD4301	H - 234	W / 2 - 202.5
Top Glass <u>With</u> ETD4301	H2 - 162	W / 2 - 202.5
Bottom Glass <u>With</u> ETD4301	H1 - 162	W / 2 - 202.5

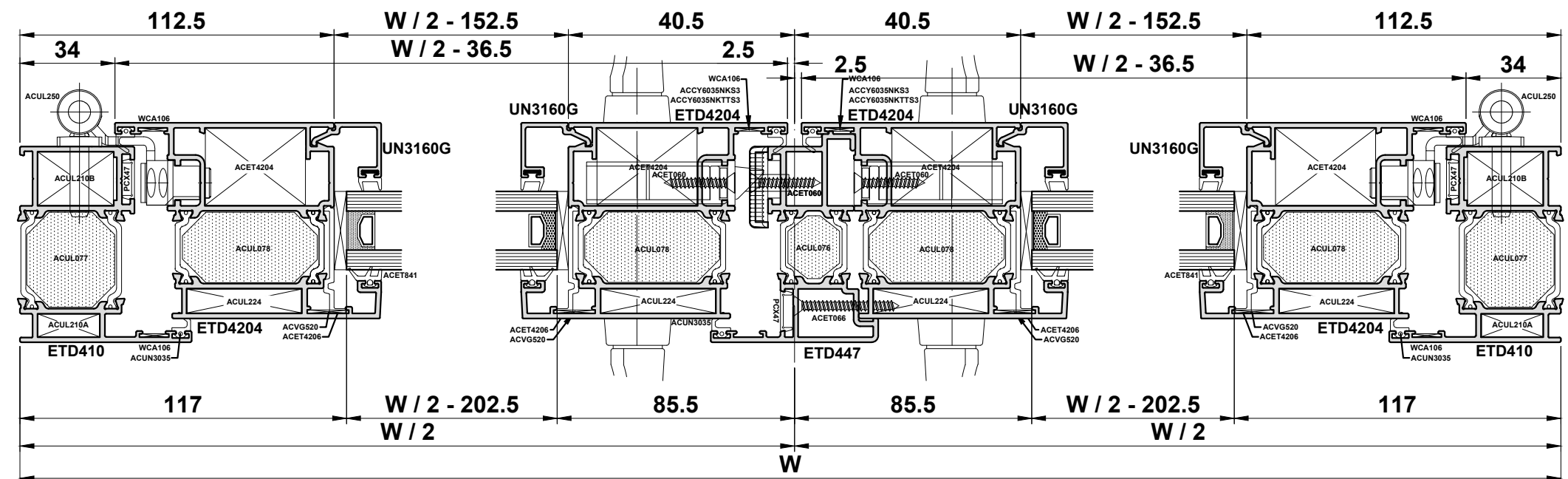
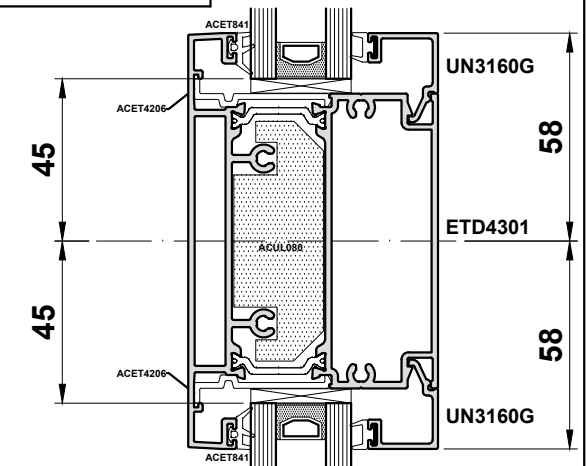
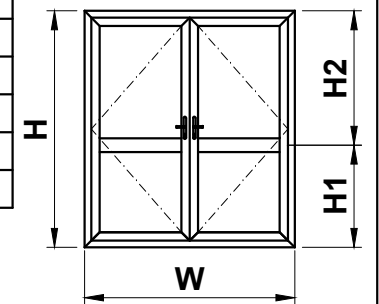
Accessories		
ACCY6035S3	2	Euro Cylinder
ACDV251	2 Pair	Handles
ACDV737	2	Bottom Shootbolt
ACDV738	2	Top Shootbolt
ACET060	40	Screw for Lock & Keep
ACET060	8	Screw for ACDV737/738
ACET131	4	Drainage Cap
ACET4147	Pair	ETD447 End Cap
ACET4204	8	Sash Cleat
ACET4206	20	Bridge Packers
ACET475	4	Run Up Block
ACET841	4 x W / 2 & 4 x H	E Gasket
ACIM062	24	Screw for ACUL250
ACUL076	H - 110	Floating Mullion Foam
ACUL077	2 x W & 2 x H	Outer Frame Foam
ACUL078	4 x W / 2 & 4 x H	Sash Foam
ACUL210A	4	Outer Frame Cleat
ACUL210B	4	Outer Frame Cleat
ACUL224	8	Sash Cleat
ACUL250	6	Hinge
ACUL276	1	Secondary Lock
ACUL277/8	1	Double Door Primary Lock
ACUL279	1	Double Door Keep Kit

ACUN3035	4 x W & 7 x H	Flipper Gasket
ACUN3512	18	Screw for ACUL250
ACUN3513	2 + H / 300	Screw for ETD447
ACVL072	2 Pairs	VL72 End Cap
ACVL061	W/300 + 2	VL72 Rivet
WCA106	20	Chevrons

***See Page E20 for lock options.**

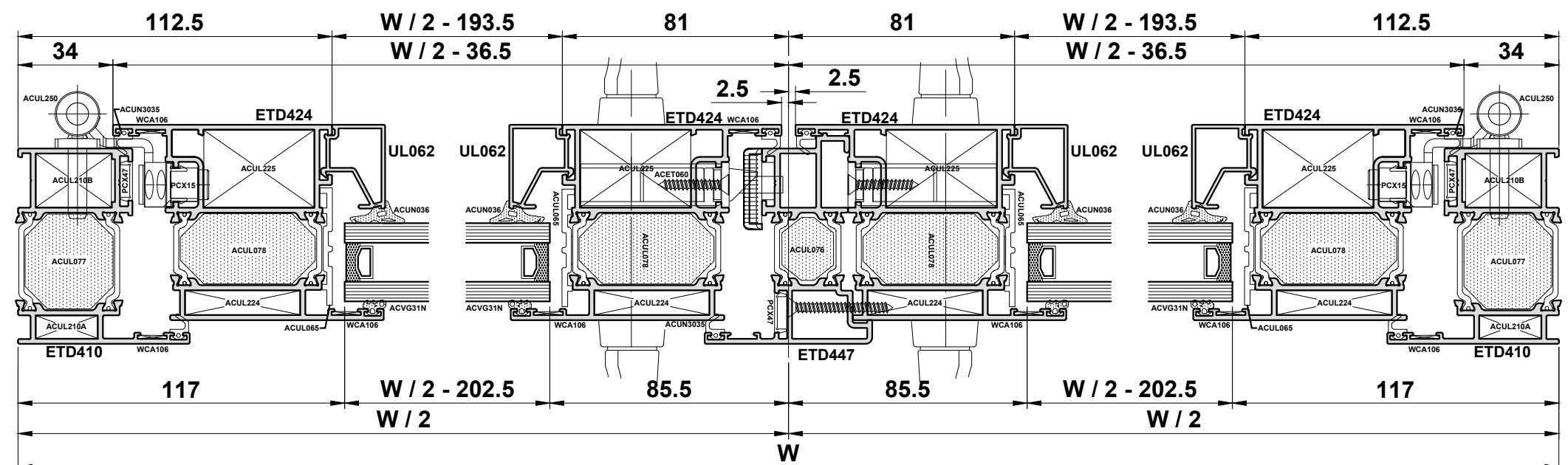
****See B & E for handle options.**

Midrail Accessories		
ACET841	2 x W	E Gasket
ACUL080	W	ETD4301 Foam
ACUN3512	4	Screws
ACET4206	4	Bridge Packers

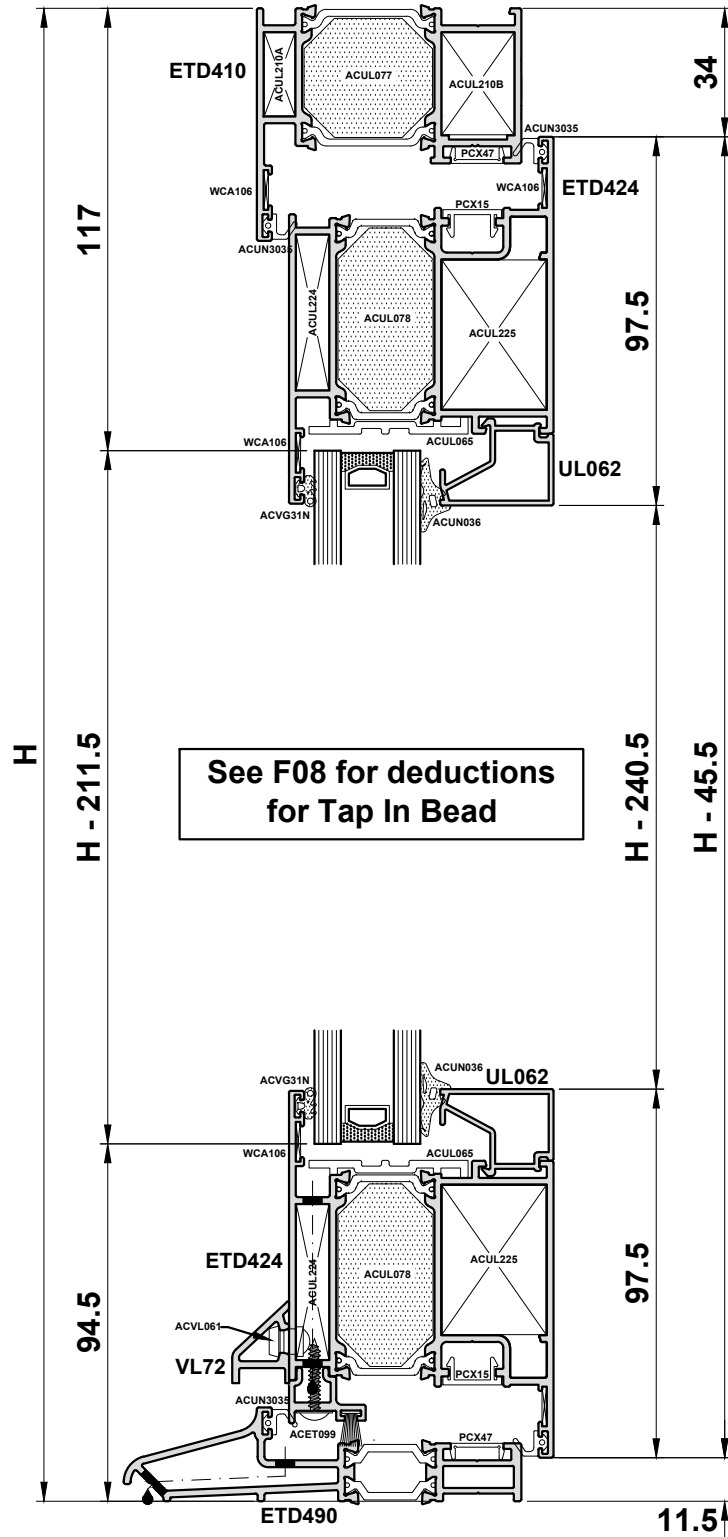


Do Not Scale From This Drawing

Open In Double Door Lift Lever Full Frame



Open In Double Door ETD490 Lift Lever Low Rebate Threshold



Profile Cutting Schedule				
ETD410	1			W
ETD410	2			H - 15.5
ETD490	1			W
ETD424	4			W / 2 - 36.5
ETD424	4			H - 45.5
ETD447	1			H - 81
UL297	2			W / 2 - 79.5
BEAD	4			H - 240.5
BEAD	4			W / 2 - 193.5
PCX15	4			H - 106
PCX15	4			W / 2 - 74
PCX47	2			H - 56.5
PCX47	1			H - 81
PCX47	2			W - 82
VL72	2			W / 2 - 112.5

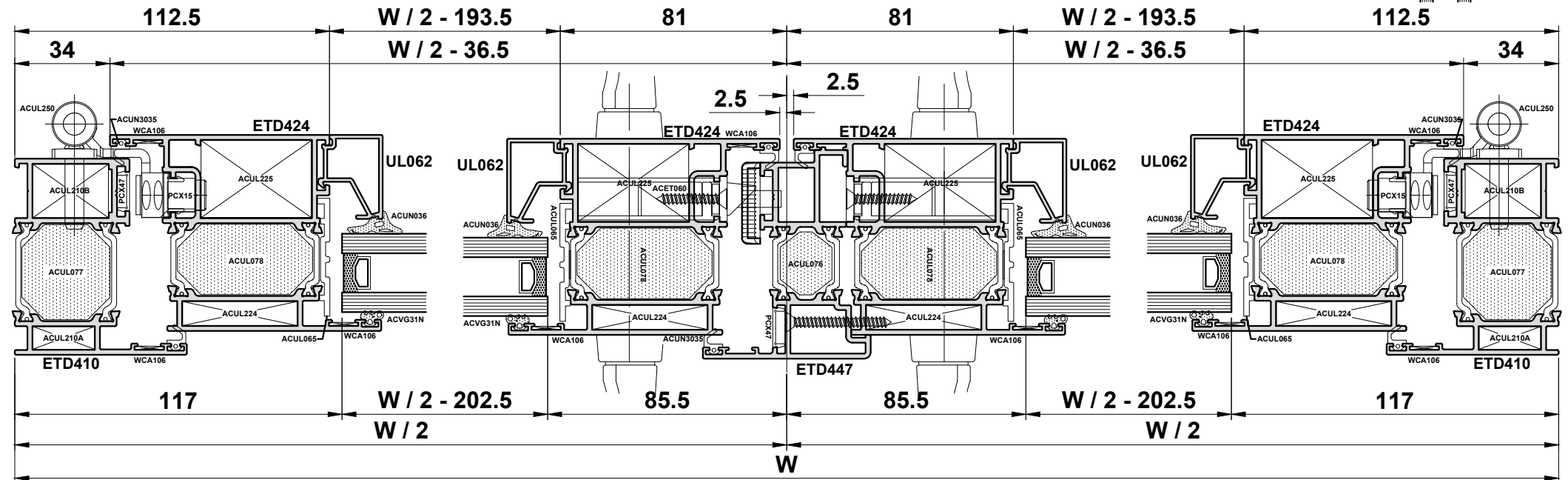
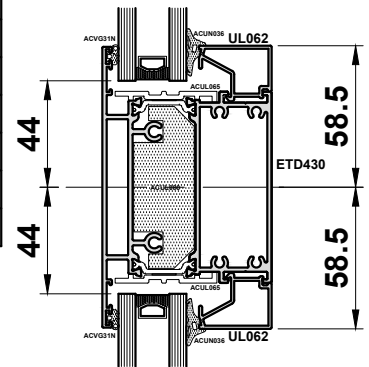
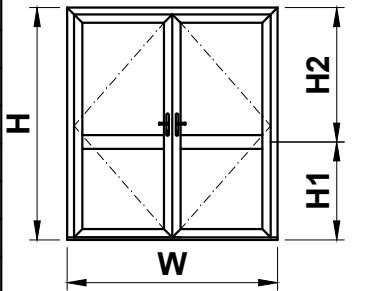
MIDRAIL	ETD430	2		W / 2 - 193.5
	BEAD	8		W / 2 - 193.5
	BEAD	4		H1 - 167.5
	BEAD	4		H2 - 190

Glass Sizes		
Without ETD430	H - 211.5	W / 2 - 202.5
Top Glass With ETD430	H2 - 161	W / 2 - 202.5
Bottom Glass With ETD430	H1 - 138.5	W / 2 - 202.5

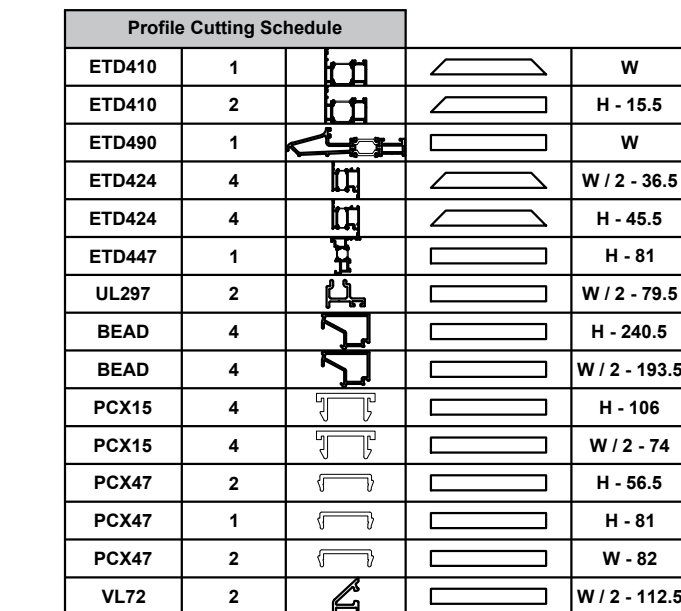
Accessories		
ACCY6035S3	2	Euro Cylinder
ACDV251	2 Pairs	Handles
ACDV737	2	Bottom Shootbolt
ACDV738	2	Top Shootbolt
ACET060	4	Screw for ACET4190
ACET060	40	Screw for Lock & Keep
ACET060	8	Screw for ACDV737/738
ACET099	W - 100 / 300	Fixing Screw for UL297
ACET4146	Pair	ETD447 End Cap at Cill
ACET4147	Pair	ETD447 End Cap at Head
ACET4190	Pair	ETD490 End Cap
ACET4197	2 Pairs	UL297 End Cap
ACET475	4	Run Up Block
ACIM062	24	Screw for ACUL250
ACSH038N	1 x W	Woolpile
ACUL025	2	Anti-Twist Clip
ACUL065	20	Bridge Packers
ACUL076	H - 81	Floating Mullion Foam
ACUL077	W & 2 x H	Outer Frame Foam
ACUL078	4 x W / 2 & 4 x H	Sash Foam
ACUL210A	2	Outer Frame Cleat
ACUL210B	2	Outer Frame Cleat
ACUL224	8	Sash Cleat
ACUL225	8	Sash Cleat

ACUL250	6	Hinge
ACUL276	1	Secondary Lock
ACUL277/8	1	Double Door Primary Lock
ACUL279	1	Double Door Keep Kit
ACUL295	2	Low Threshold Bracket
ACUN036	4 x W / 2 & 4 x H	Wedge Gasket
ACUN3035	4 W & 7 x H	Flipper Gasket
ACUN3512	18	Screw for ACUL250
ACUN3513	2 + H / 300	Screw for ETD447
ACVG31N	4 x W / 2 & 4 x H	E Gasket
ACVL072	2 Pair	VL72 End Cap
ACVL061	W/300 + 2	VL72 Rivet
WCA106	18	Chevrans

Midrail Accessories		
ACUL080	2 x W / 2	ETD430 Foam
ACUL065	8	Bridge Packer
ACUL025	8	Anti-Twist Clip
ACUL299	2	Bracket
ACUN036	4 x W / 2	Wedge Gasket
ACUN3512	4	Screw
ACVG31N	4 x W / 2	E Gasket



Do Not Scale From This Drawing



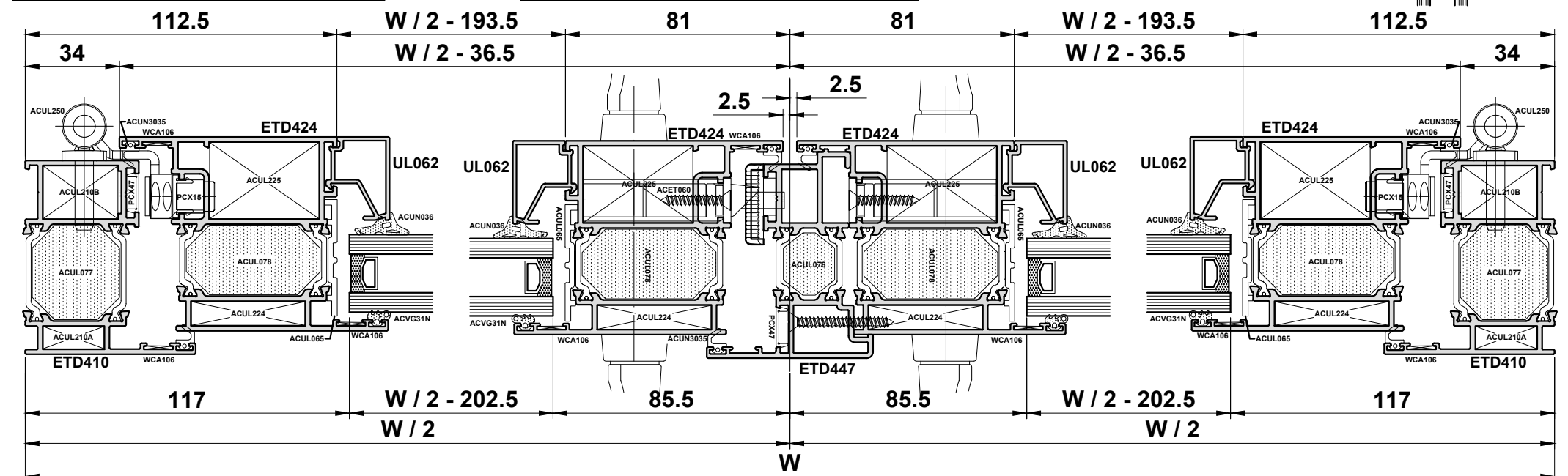
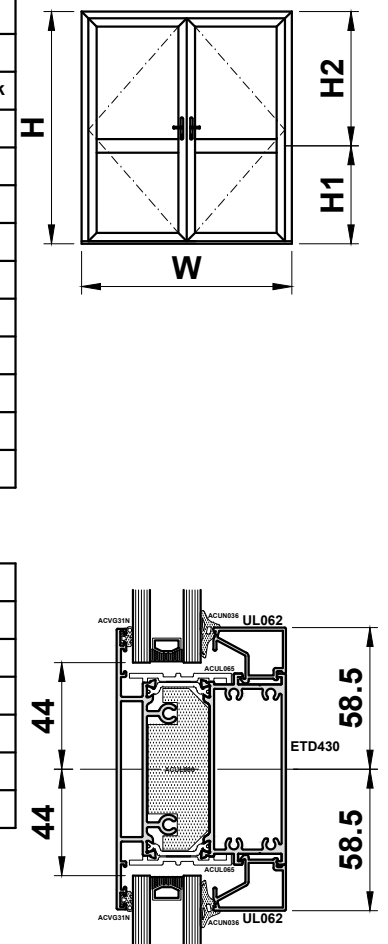
MIDRAIL	ETD430	2			W / 2 - 193.5
	BEAD	8			W / 2 - 193.5
	BEAD	4			H1 - 167.5
	BEAD	4			H2 - 190

Glass Sizes		
<u>Without</u> ETD430	H - 211.5	W / 2 - 202.5
Top Glass <u>With</u> ETD430	H2 - 161	W / 2 - 202.5
Bottom Glass <u>With</u> ETD430	H1 - 138.5	W / 2 - 202.5

Accessories		
ACCY6035S3	2	Euro Cylinder
ACDV251	2 Pairs	Handles
ACDV737	2	Bottom Shootbolt
ACDV738	2	Top Shootbolt
ACET060	4	Screw for ACET4190
ACET060	40	Screw for Lock & Keep
ACET060	8	Screw for ACDV737/738
ACET099	W - 100 / 300	Fixing Screw for UL297
ACET4146	Pair	ETD447 End Cap at Cill
ACET4147	Pair	ETD447 End Cap at Head
ACET4192	Pair	ETD492 End Cap
ACET4197	2 Pairs	UL297 End Cap
ACET475	4	Run Up Block
ACIM062	24	Screw for ACUL250
ACSH038N	1 x W	Woolpile
ACUL025	2	Anti-Twist Clip
ACUL065	20	Bridge Packers
ACUL076	H - 81	Floating Mullion Foam
ACUL077	W & 2 x H	Outer Frame Foam
ACUL078	4 x W / 2 & 4 x H	Sash Foam
ACUL210A	2	Outer Frame Cleat
ACUL210B	2	Outer Frame Cleat
ACUL224	8	Sash Cleat
ACUL225	8	Sash Cleat

ACUL250	6	Hinge
ACUL276	1	Secondary Lock
ACUL277/8	1	Double Door Primary Lock
ACUL279	1	Double Door Keep Kit
ACUL295	2	Low Threshold Bracket
ACUN036	4 x W / 2 & 4 x H	Wedge Gasket
ACUN3035	4 W & 7 x H	Flipper Gasket
ACUN3512	18	Screw for ACUL250
ACUN3513	2 + H / 300	Screw for ETD447
ACVG31N	4 x W / 2 & 4 x H	E Gasket
ACVL072	2 Pair	VL72 End Cap
ACVL061	W/300 + 2	VL72 Rivet
WCA106	18	Chevrons

Midrail Accessories		
ACUL080	2 x W / 2	ETD430 Foam
ACUL065	8	Bridge Packer
ACUL025	8	Anti-Twist Clip
ACUL299	2	Bracket
ACUN036	4 x W / 2	Wedge Gasket
ACUN3512	4	Screw
ACVG31N	4 x W / 2	E Gasket



Do Not Scale From This Drawing

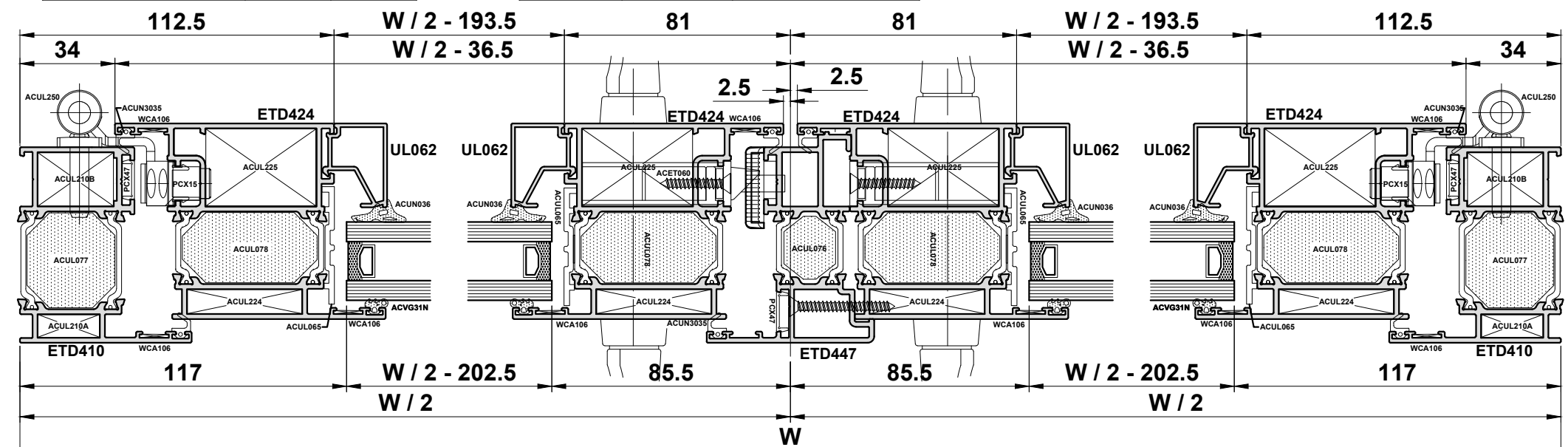
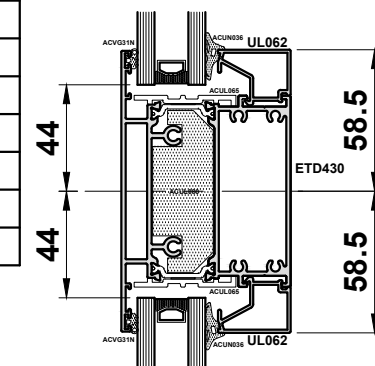
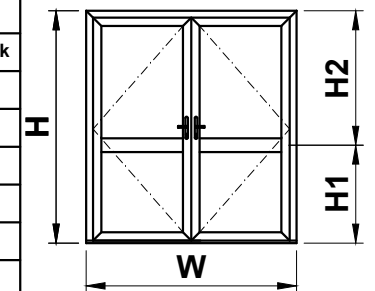
Open In Double Door Lift Lever Low Ramp Threshold



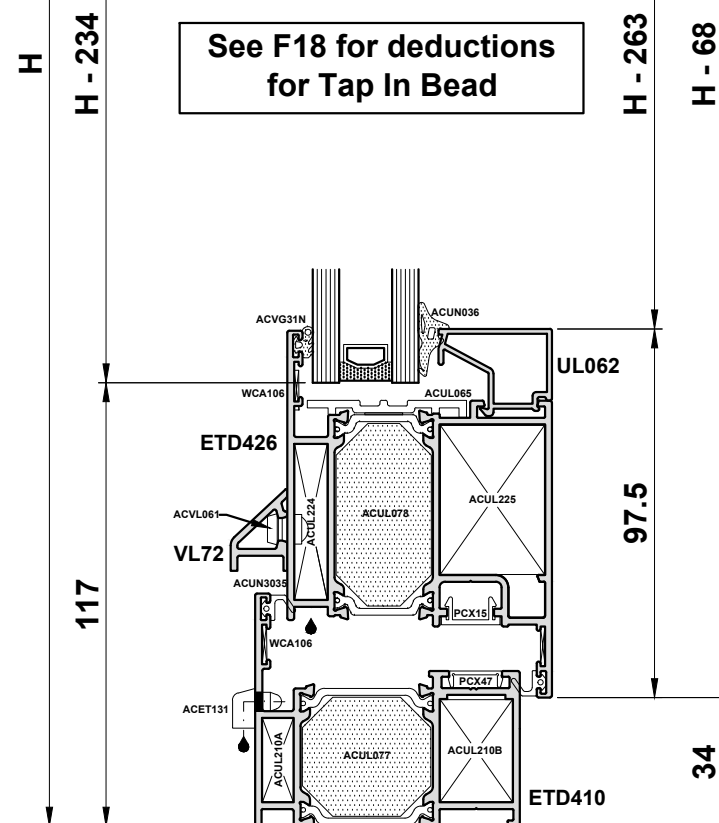
MIDRAIL	ETD430	2			W / 2 - 193.5
	BEAD	8			W / 2 - 193.5
	BEAD	4			H1 - 177
	BEAD	4			H2 - 190

Accessories		
ACCY6035S3	2	Euro Cylinder
ACDV251	2 Pairs	Handles
ACDV737	2	Bottom Shootbolt
ACDV738	2	Top Shootbolt
ACET060	4	Fixing Screw for ACET419
ACET060	40	Screw for Lock & Keep
ACET060	8	Screw for ACDV737/738
ACET066	2 x W - 100 / 300	Fixing Screw for ETD496
ACET234	1 x W	Flipper Gasket
ACET4142	Kit	ETD447/ETD496 End Cap
ACET4147	Pair	End Cap at Head
ACET4195	Pair	ETD495 End Cap
ACET4196	Pair	ETD496 End Cap
ACET475	4	Run Up Block
ACIM062	24	Screw for ACUL250
ACSH038N	2 x W	Woolpile
ACUL065	20	Bridge Packers
ACUL076	H - 81	Floating Mullion Foam
ACUL077	W & 2 x H	Outer Frame Foam
ACUL078	4 x W / 2 & 4 x H	Sash Foam
ACUL210A	2	Outer Frame Cleat
ACUL210B	2	Outer Frame Cleat
ACUL224	8	Sash Cleat
ACUL225	8	Sash Cleat
ACUL250	6	Hinge

Midrail Accessories		
ACUL080	2 x W / 2	ETD430 Foam
ACUL065	8	Bridge Packer
ACUL025	8	Anti-Twist Clip
ACUL299	2	Bracket
ACUN036	4 x W / 2	Wedge Gasket
ACUN3512	4	Screw
ACVG31N	4 x W / 2	E Gasket

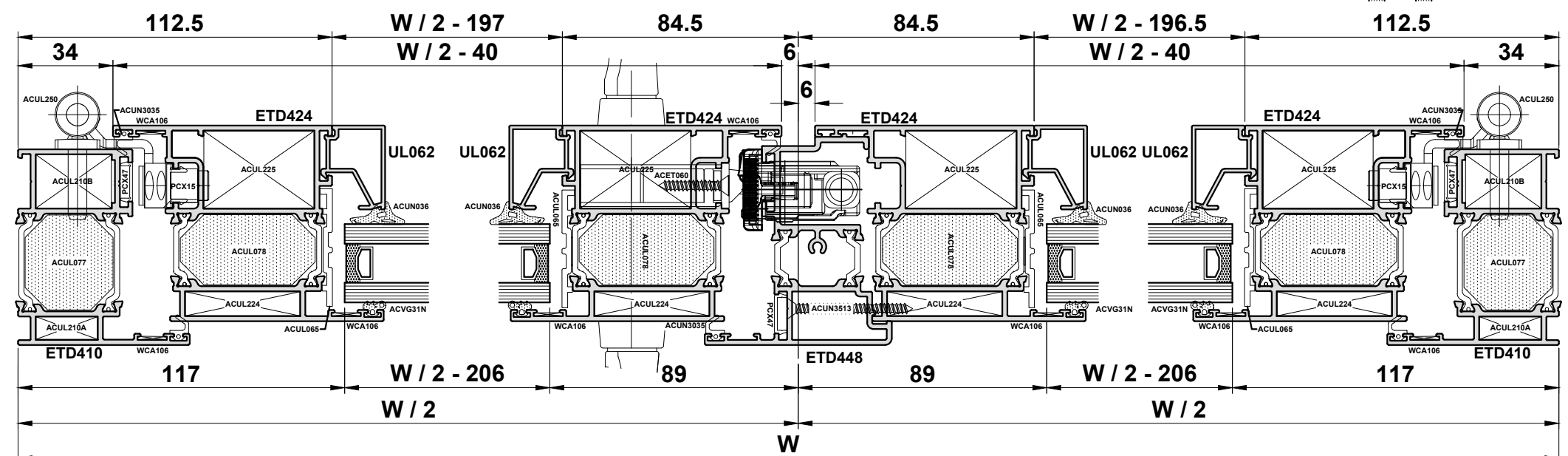
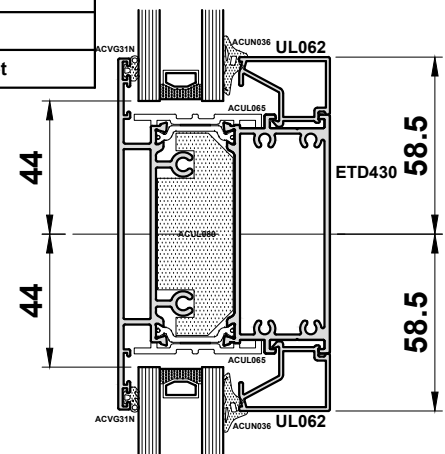


Do Not Scale From This Drawing



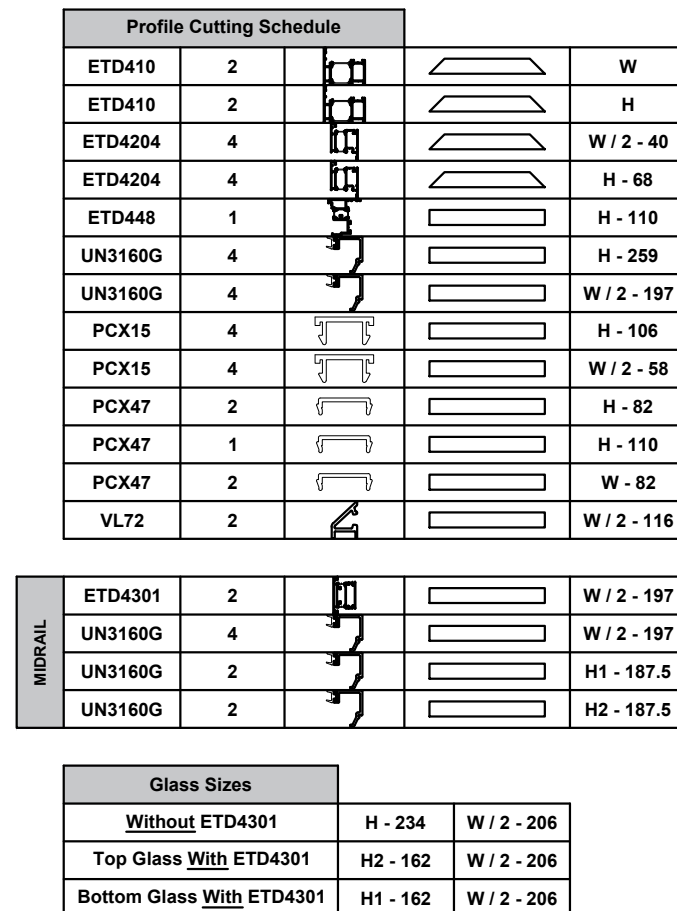
Glass Sizes		
<u>Without</u> ETD430	H - 234	W / 2 - 206
Top Glass <u>With</u> ETD430	H2 - 161	W / 2 - 206
Bottom Glass <u>With</u> ETD430	H1 - 161	W / 2 - 206

Technical drawing of a double window. The drawing shows a front view of a window with two panes. The overall height is labeled H . The height of the upper pane is labeled $H2$, and the height of the lower pane is labeled $H1$. The overall width is labeled W . The drawing includes dashed lines indicating the internal structure and a central handle.



PAGE F19

Open In Double Door Finger Bolt Full Frame Quick-Glaze Bead

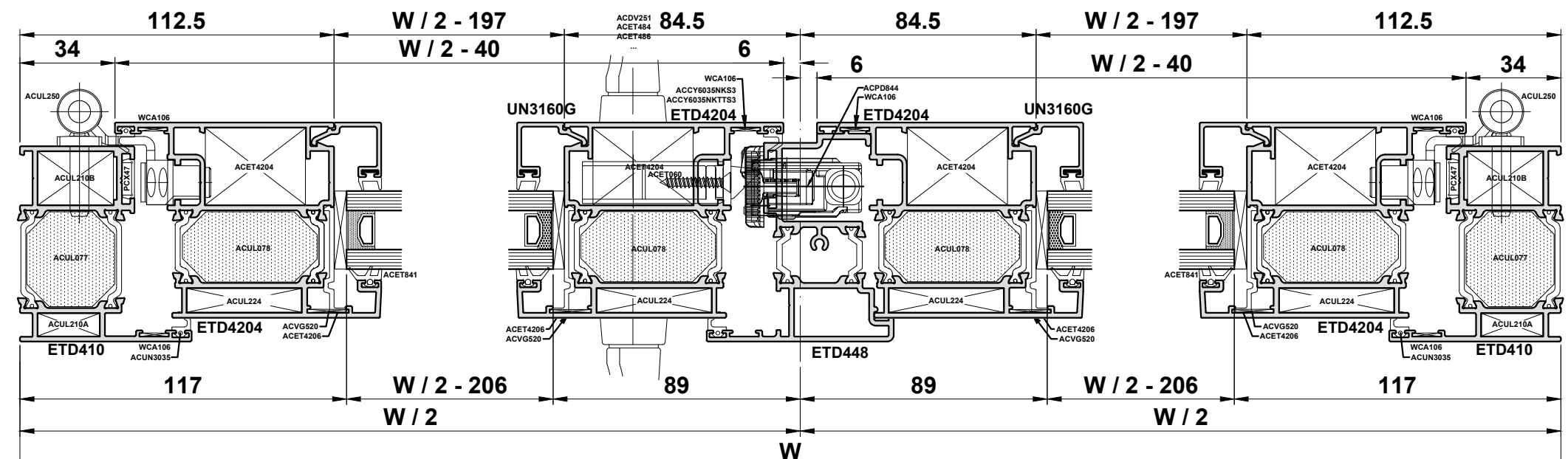
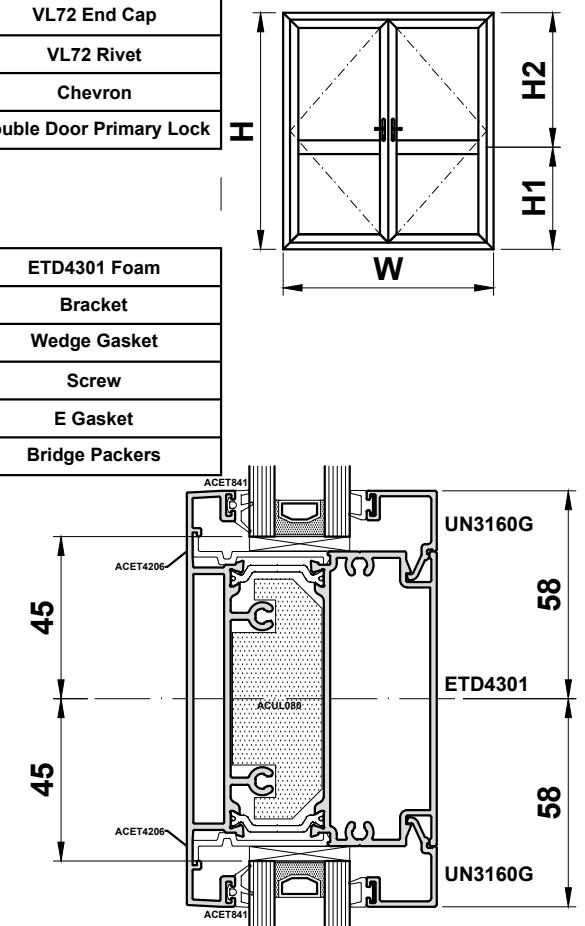


Accessories		
ACCY6035S3	1	Euro Cylinder
**	**	Handles
ACET060	16	Screw for Lock
ACET131	4	Drainage Cap
ACET4148	Pair	ETD448 End Cap
ACET4204	8	Sash Cleat
ACET4206	20	Bridge Packers
ACET475	4	Run Up Block
ACET841	4 x W / 2 & 4 x H	E Gasket
ACIM062	24	Screw for ACUL250
ACPD844	1	Shootbolt Adaptor
ACPD84..	2	10mm Dia Glavanised Rod
ACSM015	Pair	Escutcheon
ACUL077	2 x W & 2 x H	Outer Frame Foam
ACUL078	4 x W / 2 & 4 x H	Sash Foam
ACUL210A	4	Outer Frame Cleat
ACUL210B	4	Outer Frame Cleat
ACUL224	8	Sash Cleat
ACUL242	2	Finger Bolt Guide
ACUL250	6	Hinge
ACUL390	Pair	Finger Bolt Flat Keep
ACUN3035	4 x W & 6 x H	Flipper Gasket
ACUN3512	18	Screw for ACUL250
ACUN3513	2 + H / 300	Screw for ETD448

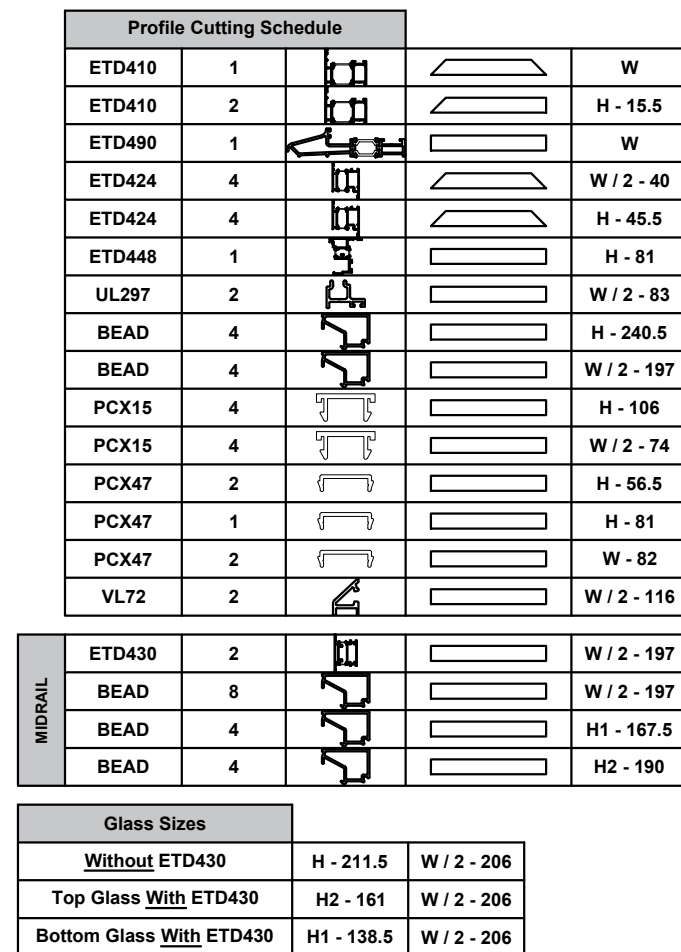
ACVL072	2 Pairs	VL72 End Cap
ACVL061	W/300 + 2	VL72 Rivet
WCA106	20	Chevron
*	1	Double Door Primary Lock

*See Page E20 for lock options.
**See B & E for handle options.

Midrail Accessories		
ACUL080	2 x W / 2	ETD4301 Foam
ACUL299	4	Bracket
ACUN036	4 x W / 2	Wedge Gasket
ACUN3512	8	Screw
ACET841	4 x W / 2	E Gasket
ACET4206	8	Bridge Packers



Do Not Scale From This Drawing

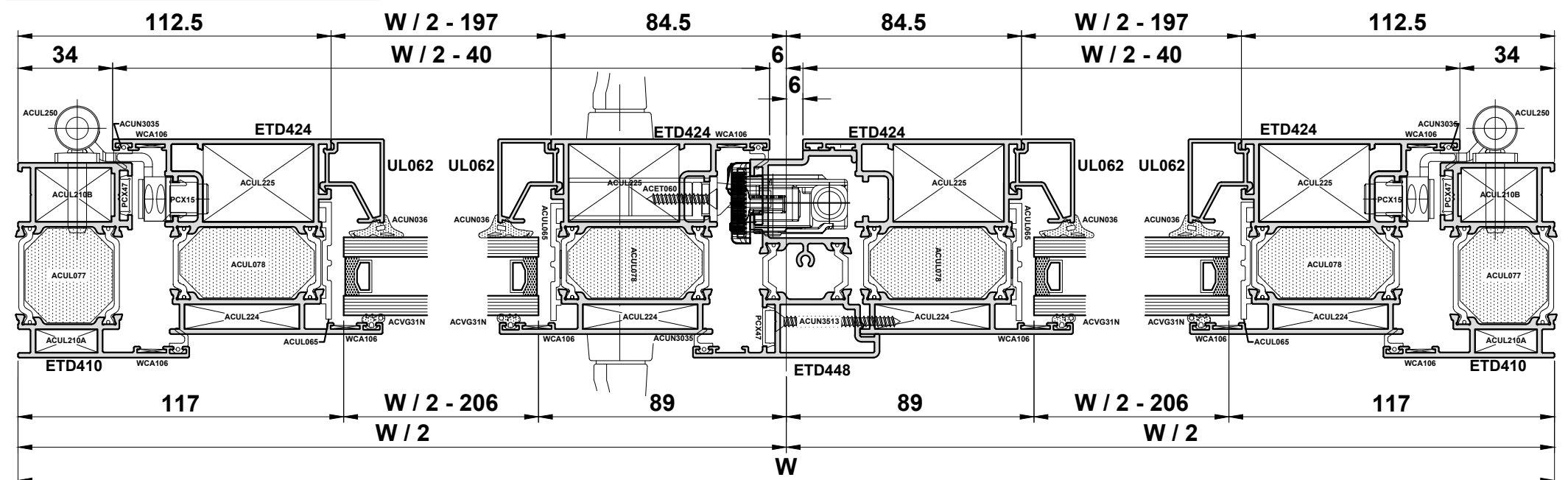
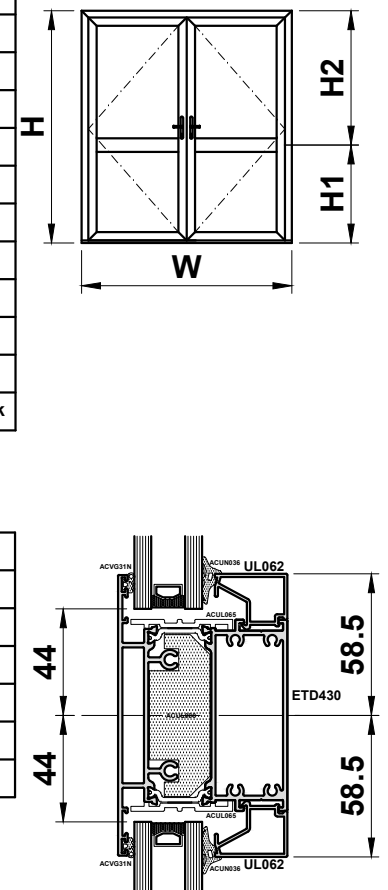


Accessories		
ACCY6035S3	1	Euro Cylinder
**	**	Handles
ACET060	4	Screw for ACET4190
ACET060	16	Screw for Lock
ACET099	W / 2 - 100 / 300	Fixing Screw for UL297
ACET4145	Pair	ETD448 End Cap at Cill
ACET4148	Pair	ETD448 End Cap at Head
ACET4190	Pair	ETD490 End Cap
ACET4197	2 Pairs	UL297 End Cap
ACET475	4	Run Up Block
ACIM062	24	Screw for ACUL250
ACPD844	1	Shootbolt Adaptor
ACPD84..	2	10mm Dia Glavanised Rod
ACSH038N	1 x W	Woolpile
ACSM015	Pair	Escutcheon
ACUL065	20	Bridge Packers
ACUL077	W & 2 x H	Outer Frame Foam
ACUL078	4 x W / 2 & 4 x H	Sash Foam
ACUL210A	2	Outer Frame Cleat
ACUL210B	2	Outer Frame Cleat
ACUL224	8	Sash Cleat
ACUL225	8	Sash Cleat
ACUL242	2	Finger Bolt Guide

ACUL250	6	Hinge
ACUL295	2	Low Threshold Bracket
ACUL390	Pair	Finger Bolt Flat Keep
ACUN036	4 x W / 2 & 4 x H	Wedge Gasket
ACUN3035	4 x W & 6 x H	Flipper Gasket
ACUN3512	18	Screw for ACUL250
ACUN3513	2 + H / 300	Screw for ETD448
ACVG31N	4 x W / 2 & 4 x H	E Gasket
ACVL072	2 Pair	VL72 End Cap
ACVL061	W/300 + 2	VL72 Rivet
WCA106	18	Chevrons
*	1	Double Door Primary Lock

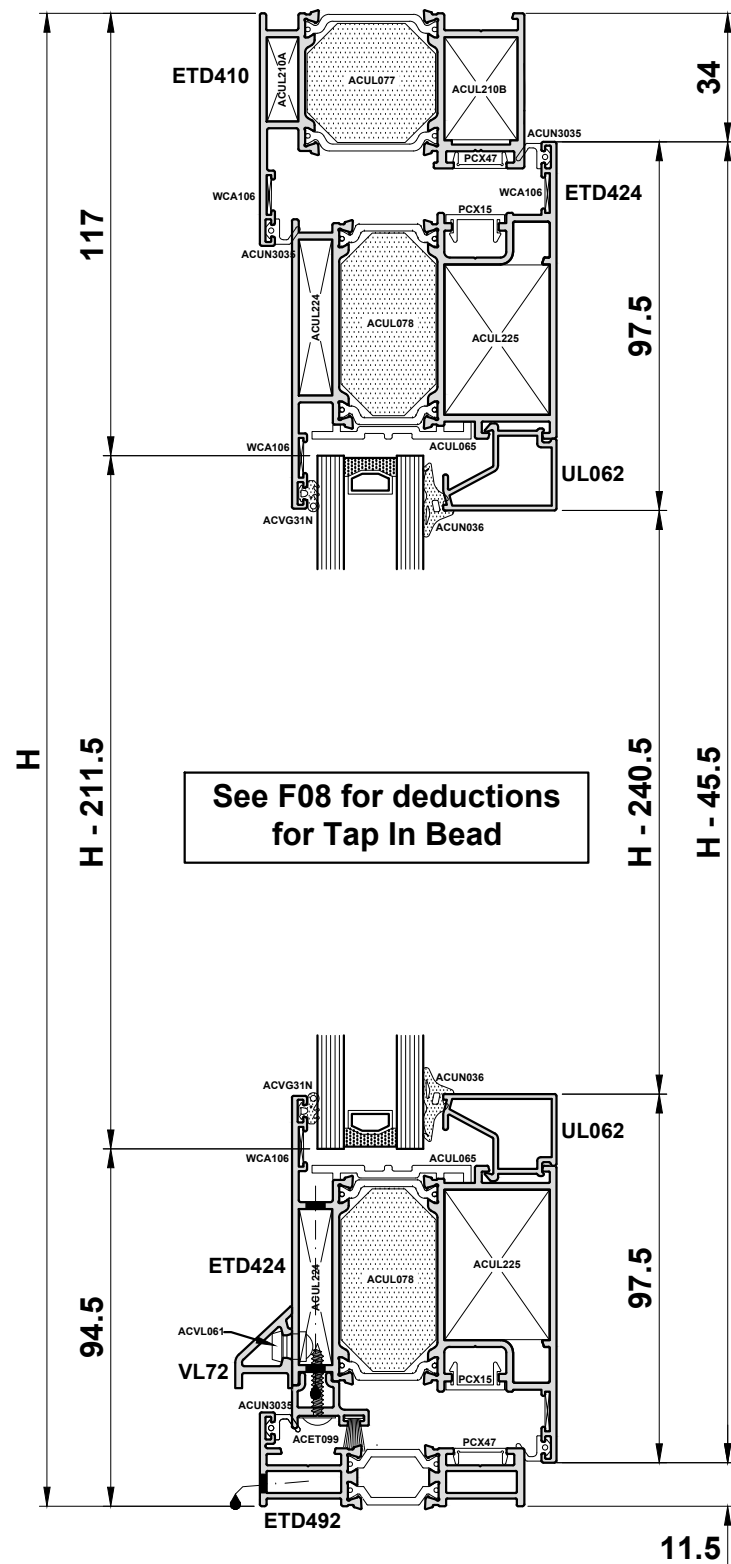
****See B & E for handle options.**

Midrail Accessories		
ACUL080	2 x W / 2	ETD430 Foam
ACUL065	8	Bridge Packer
ACUL025	8	Anti-Twist Clip
ACUL299	2	Bracket
ACUN036	4 x W / 2	Wedge Gasket
ACUN3512	4	Screw
ACVG31N	4 x W / 2	E Gasket



Do Not Scale From This Drawing

Open In Double Door Finger Bolt ETD492 Low Rebate Threshold



Profile Cutting Schedule				
ETD410	1			W
ETD410	2			H - 15.5
ETD492	1			W
ETD424	4			W / 2 - 40
ETD424	4			H - 45.5
ETD448	1			H - 81
UL297	2			W / 2 - 83
BEAD	4			H - 240.5
BEAD	4			W / 2 - 197
PCX15	4			H - 106
PCX15	4			W / 2 - 74
PCX47	2			H - 56.5
PCX47	1			H - 81
PCX47	2			W - 82
VL72	2			W / 2 - 116

MIDRAIL	ETD430	2			W / 2 - 197
	BEAD	8			W / 2 - 197
	BEAD	4			H1 - 167.5
	BEAD	4			H2 - 190

Glass Sizes		
<u>Without</u> ETD430	H - 211.5	W / 2 - 206
Top Glass <u>With</u> ETD430	H2 - 161	W / 2 - 206
Bottom Glass <u>With</u> ETD430	H1 - 138.5	W / 2 - 206

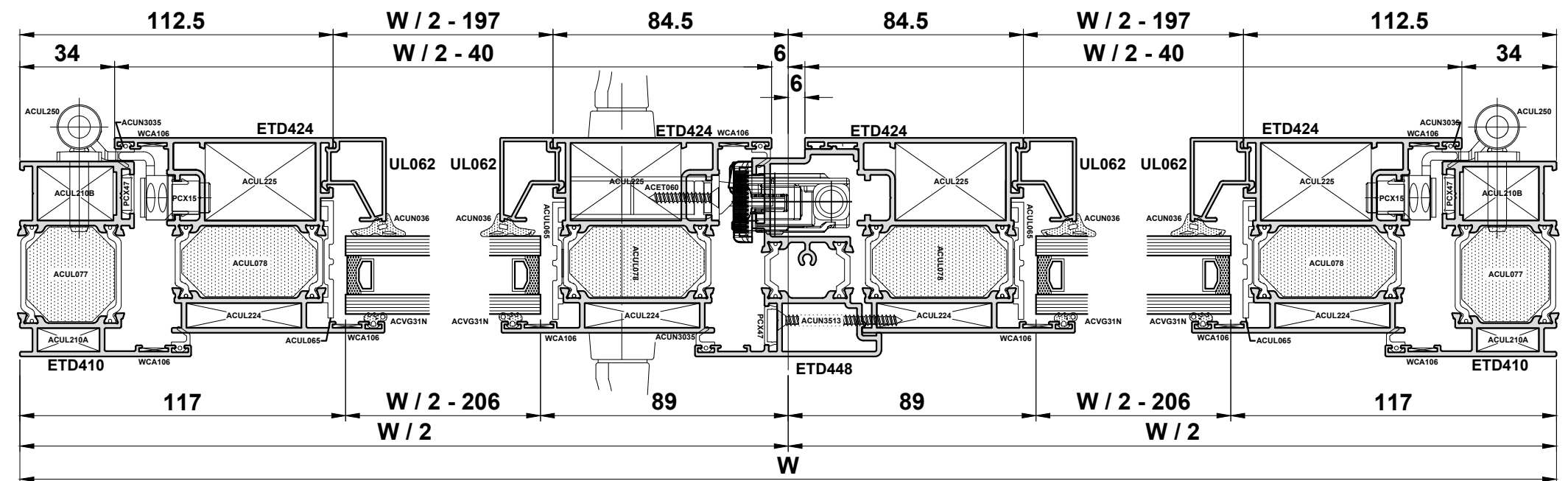
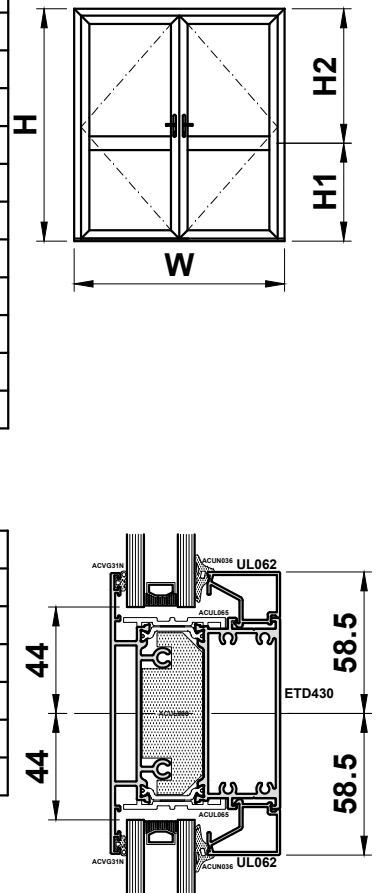
Accessories		
ACCY6035S3	1	Euro Cylinder
**	**	Handles
ACET060	4	Screw for ACET4190
ACET060	16	Screw for Lock
ACET099	W / 2 - 100 / 300	Fixing Screw for UL297
ACET4145	Pair	ETD448 End Cap at Cill
ACET4148	Pair	ETD448 End Cap at Head
ACET4192	Pair	ETD492 End Cap
ACET4197	2 Pairs	UL297 End Cap
ACET475	4	Run Up Block
ACIM062	24	Screw for ACUL250
ACPD844	1	Shootbolt Adaptor
ACPD84..	2	10mm Dia Glavanised Rod
ACSH038N	1 x W	Woolpile
ACSM015	Pair	Escutcheon
ACUL065	20	Bridge Packers
ACUL077	W & 2 x H	Outer Frame Foam
ACUL078	4 x W / 2 & 4 x H	Sash Foam
ACUL210A	2	Outer Frame Cleat
ACUL210B	2	Outer Frame Cleat
ACUL224	8	Sash Cleat
ACUL225	8	Sash Cleat
ACUL242	2	Finger Bolt Guide

ACUL250	6	Hinge
ACUL295	2	Low Threshold Bracket
ACUL390	Pair	Finger Bolt Flat Keep
ACUN036	4 x W / 2 & 4 x H	Wedge Gasket
ACUN3035	4 x W & 6 x H	Flipper Gasket
ACUN3512	18	Screw for ACUL250
ACUN3513	2 + H / 300	Screw for ETD448
ACVG31N	4 x W / 2 & 4 x H	E Gasket
ACVL072	2 Pair	VL72 End Cap
ACVL061	W/300 + 2	VL72 Rivet
WCA106	18	Chevrons
*	1	Double Door Primary Lock

*See Page E20 for lock options.

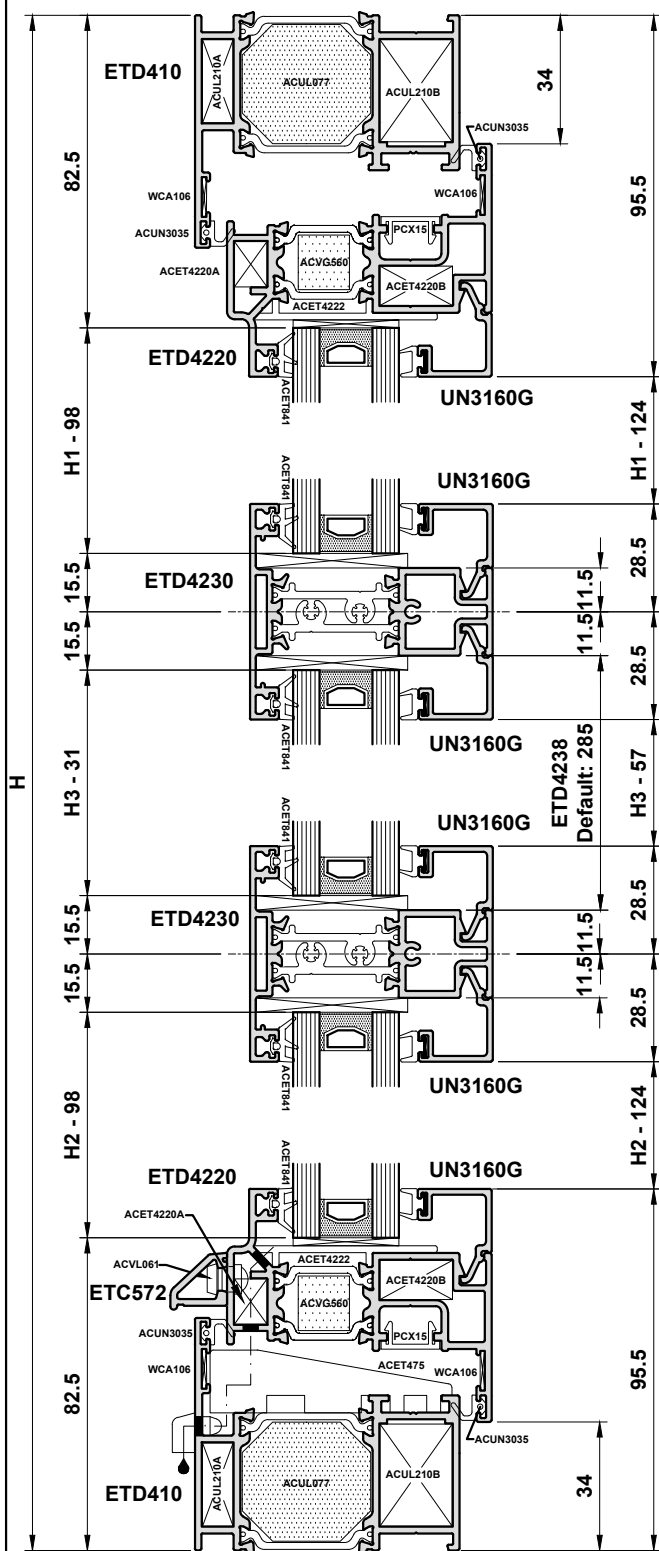
****See B & E for handle options.**

Midrail Accessories		
ACUL080	2 x W / 2	ETD430 Foam
ACUL065	8	Bridge Packer
ACUL025	8	Anti-Twist Clip
ACUL299	2	Bracket
ACUN036	4 x W / 2	Wedge Gasket
ACUN3512	4	Screw
ACVG31N	4 x W / 2	E Gasket

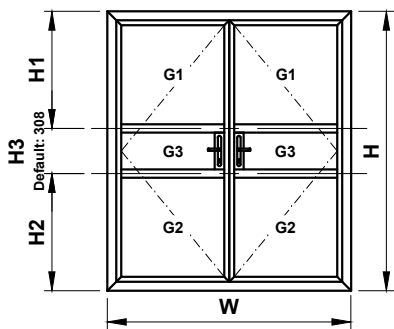


Do Not Scale From This Drawing

Open In Heritage Double Door Full Frame Quick-Glaze Bead



Profile Cutting Schedule				
ETD410	2			W
ETD410	2			H
ETD4220	4			W/2 - 36.5
ETD4220	4			H - 68
ETD4247	1			H - 110
UN3160G	8			W/2 - 125.5
UN3160G	4			W/2 - 189
UN3160G	4			H1 - 124
UN3160G	4			H2 - 124
UN3160G	4			H3 - 57
ETD4230	4			W/2 - 125.5
ETD4238	2			285
PCX15	4			H - 106
PCX15	4			W/2 - 75.5
PCX47	2			H - 82
PCX47	2			W - 82
PCX47	2			H - 110
ETC572	2			W/2 - 112.5

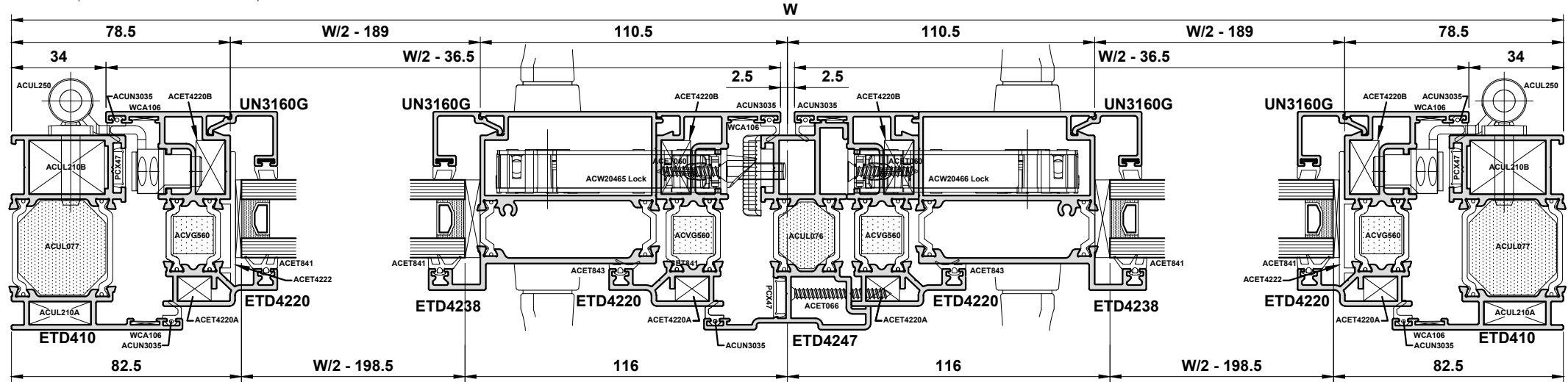
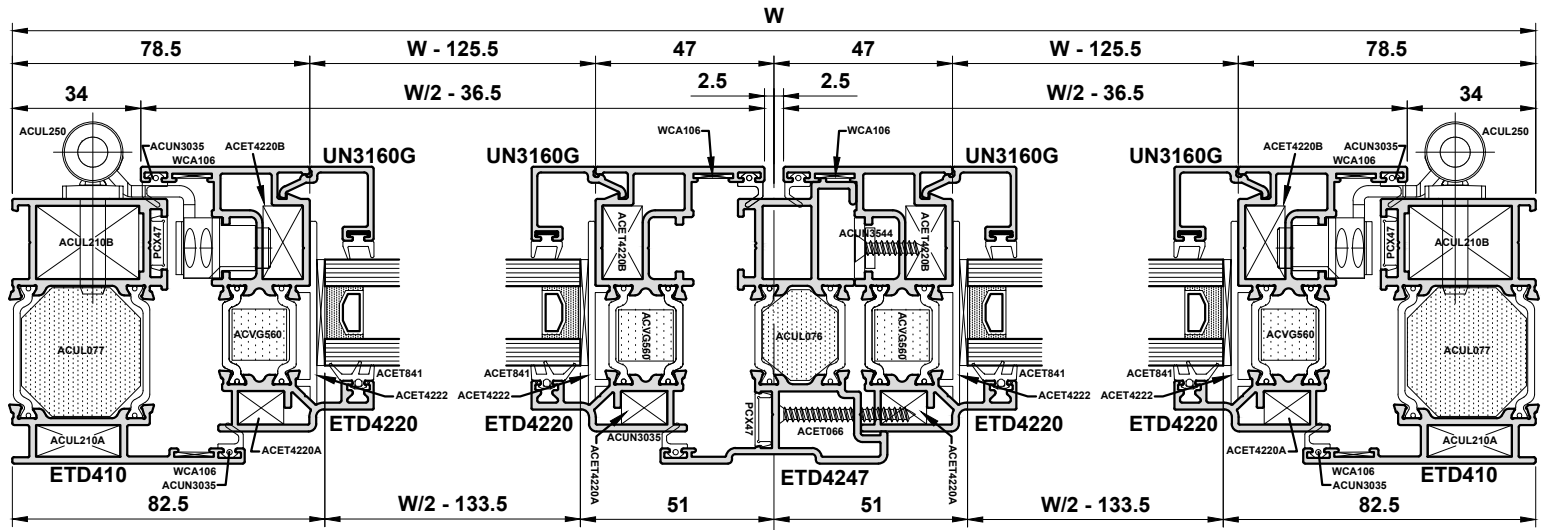


Accessories		
ACUL210A	4	Outerframe Cleat
ACUL210B	4	Outerframe Cleat
ACET4220A	8	Sash Cleat
ACET4220B	8	Sash Cleat
ACET4222	14	Bridge Packers
WCA106	12	Chevrons
ACUN3035	4W + 7H	Flipper Gasket
ACUL076	H - 110	Floating Mullion Foam
ACUL077	2W + 2H	Outerframe Foam
ACVG560	2W + 4H	Sash Foam
ACET843	2x 385mm	Lock Box E Gasket
E Gasket	6W + 4H	Glazing Gasket
ACET475	4	Run Up Block

ACET062	8	Transom Screws
ACET066	12	Transom Screws
ACVL061	W / 300 + 2	Pop Rivets
ACET572	2 Pair	Drip End Cap
ACUL250	6	Hinges
ACUN3512	18	Hinge Screw
ACUN3577	24	Hinge Screw
ACET4247	Pair	EDT4247 End Cap
ACET066	2 + H / 300	Screw for ETD4247
ACET131	4	Drainage Cap
ACW20465	1	Master Lock
ACW20466	1	Slave Lock
ACDV737	2	Bottom Shootbolt

ACDV738	2	Top Shootbolt
ACW20066 L/R	1	Center Keep
ACW20367	4	Keep
ACUL279	2	Shootbolt Keep
ACUN3544	32	Screw For Lock
Page E50	2	Euro Cylinder
Page E50	2	Handles

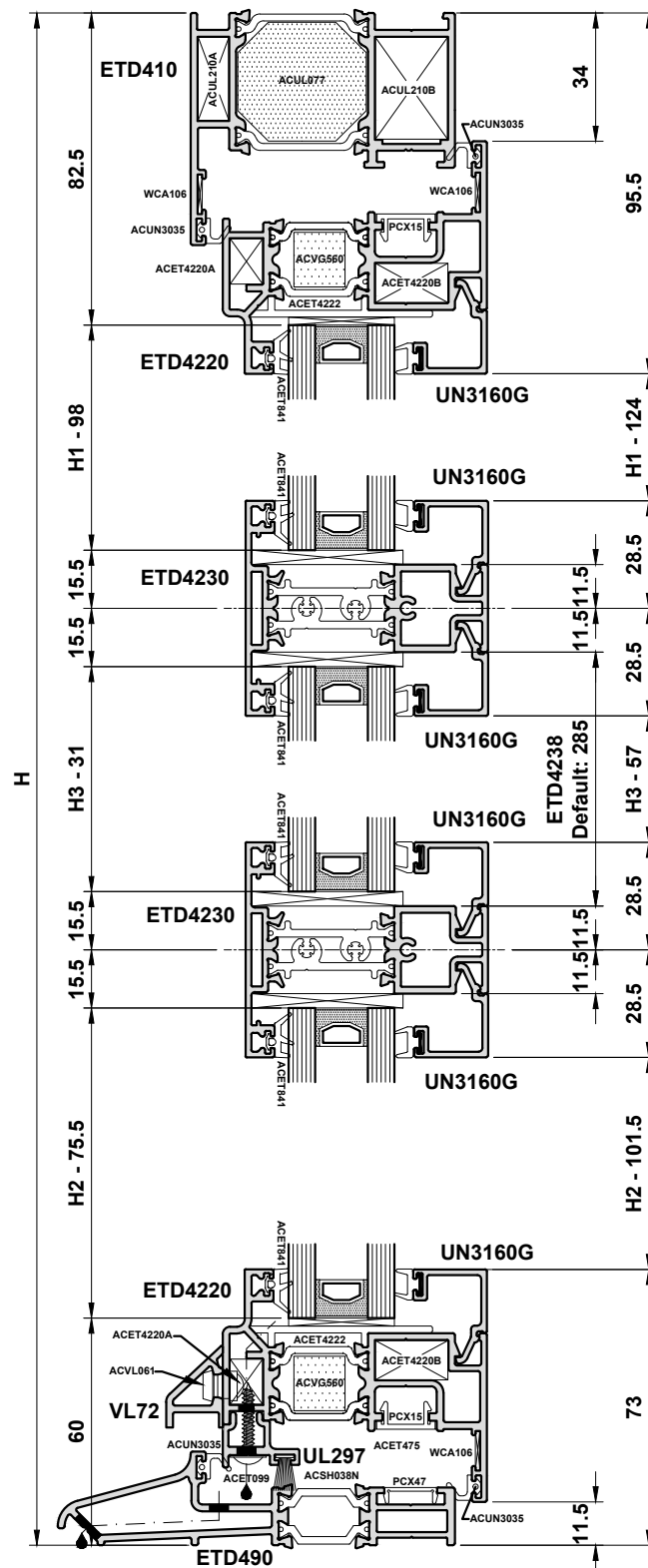
Glass Sizes	
G1	H1 - 98 W/2 - 133.5
G2	H2 - 98 W/2 - 133.5
G3	H3 - 31 W/2 - 198.5

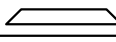
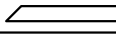
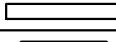
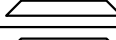
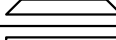
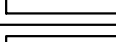
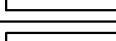
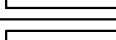
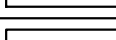
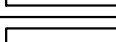
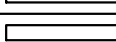
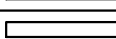
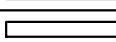
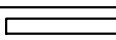
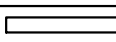
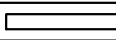
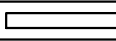
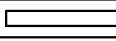
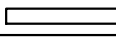
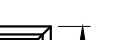


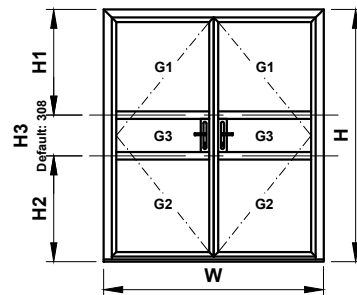
Do Not Scale From This Drawing

Alitherm 400 Stepped Door

Open In Heritage Double Door ETD490 Low Rebate Quick-Glaze Bead



Profile Cutting Schedule				
ETD410	1			W
ETD410	Pair			H - 15.5
ETD490	1			W
ETD4220	4			W/2 - 36.5
ETD4220	4			H - 45.5
ETD297	2			W/2 - 79.5
ETD4247	1			H - 81
UN3160G	8			W/2 - 125.5
UN3160G	4			W/2 - 189
UN3160G	4			H1 - 124
UN3160G	4			H2 - 101.5
UN3160G	4			H3 - 57
ETD4230	4			W/2 - 125.5
ETD4238	2			285
PCX15	4			H - 83.5
PCX15	4			W/2 - 75.5
PCX47	2			H - 56.5
PCX47	2			W - 82
PCX47	2			H - 81
VL72	2			W/2 - 112.5

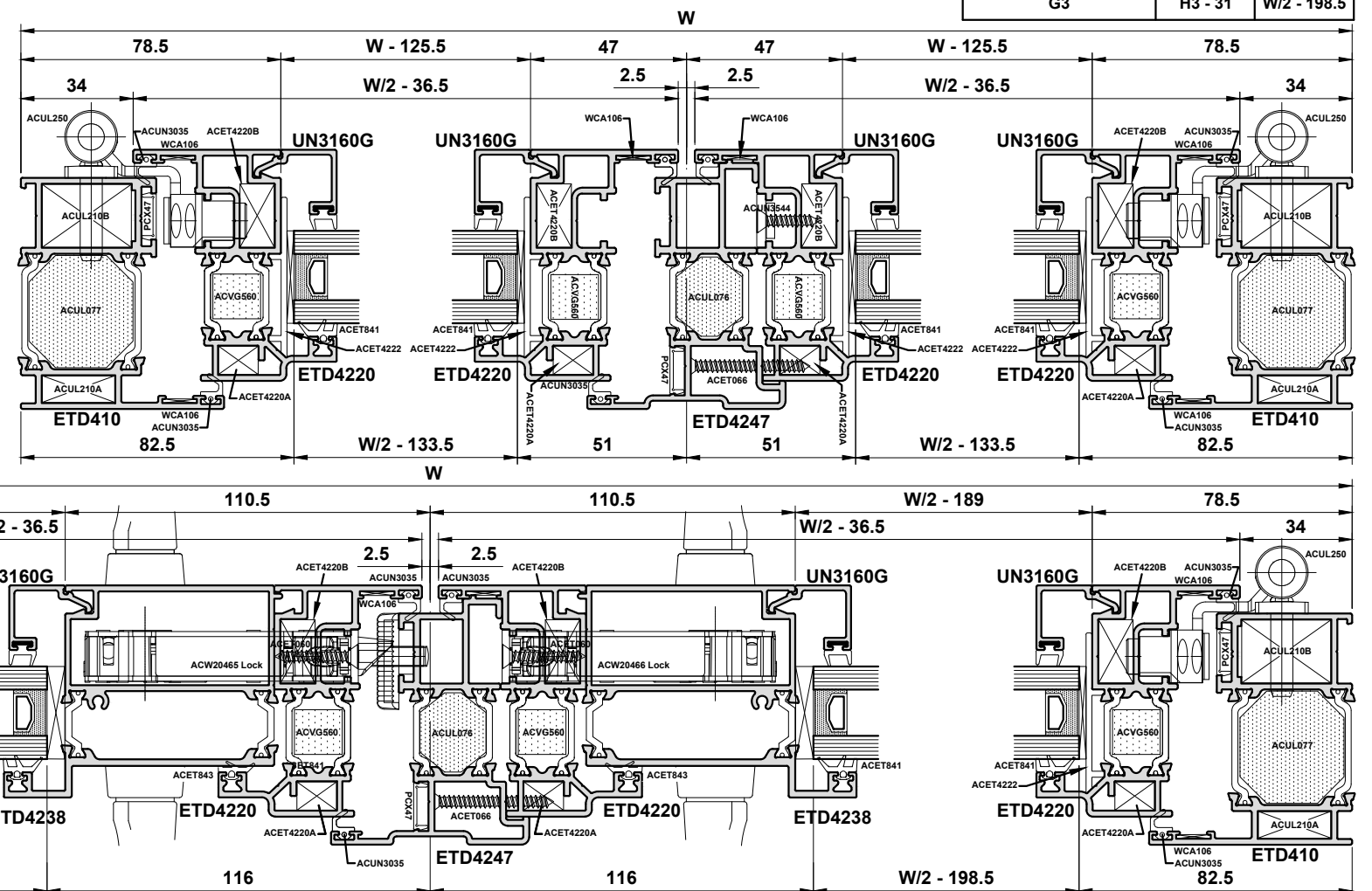


Accessories		
ACUL210A	2	Outerframe Cleat
ACUL210B	2	Outerframe Cleat
ACUL025	2	Anti-Twist Clip
ACUL295	2	Low Threshold Brackets
ACMX852	2	M6 x 16 Screw
ACET060	4	Screw For End Cap
ACET099	W - 100 / 300	Screw For UL297
ACET4190	Pair	ETD490 End Cap
ACET4197	2 Pair	UL297 End Cap
ACET4220A	8	Sash Cleat
ACET4220B	8	Sash Cleat
ACET4222	14	Bridge Packers
WCA106	10	Chevrans
ACUN3035	4W + 7H	Flipper Gasket

ACUL076	H - 81	Floating Mullion Foam
ACUL077	1W + 2H	Outerframe Foam
ACVG560	2W + 4H	Sash Foam
ACET843	2x 385mm	Lock Box E Gasket
E Gasket	6W + 4H	Glazing Gasket
ACSH038N	W - 113	Woolpile
ACET062	8	Transom Screws
ACET066	12	Transom Screws
ACVL061	W / 300 + 2	Pop Rivets
ACVL059	2 Pair	Drip End Cap
ACUL250	6	Hinges
ACUN3512	18	Hinge Screw
ACUN3577	24	Hinge Screw
ACET4246	Pair	EDT4247 Cill End Cap
ACET4247	Pair	EDT4247 Head End Cap

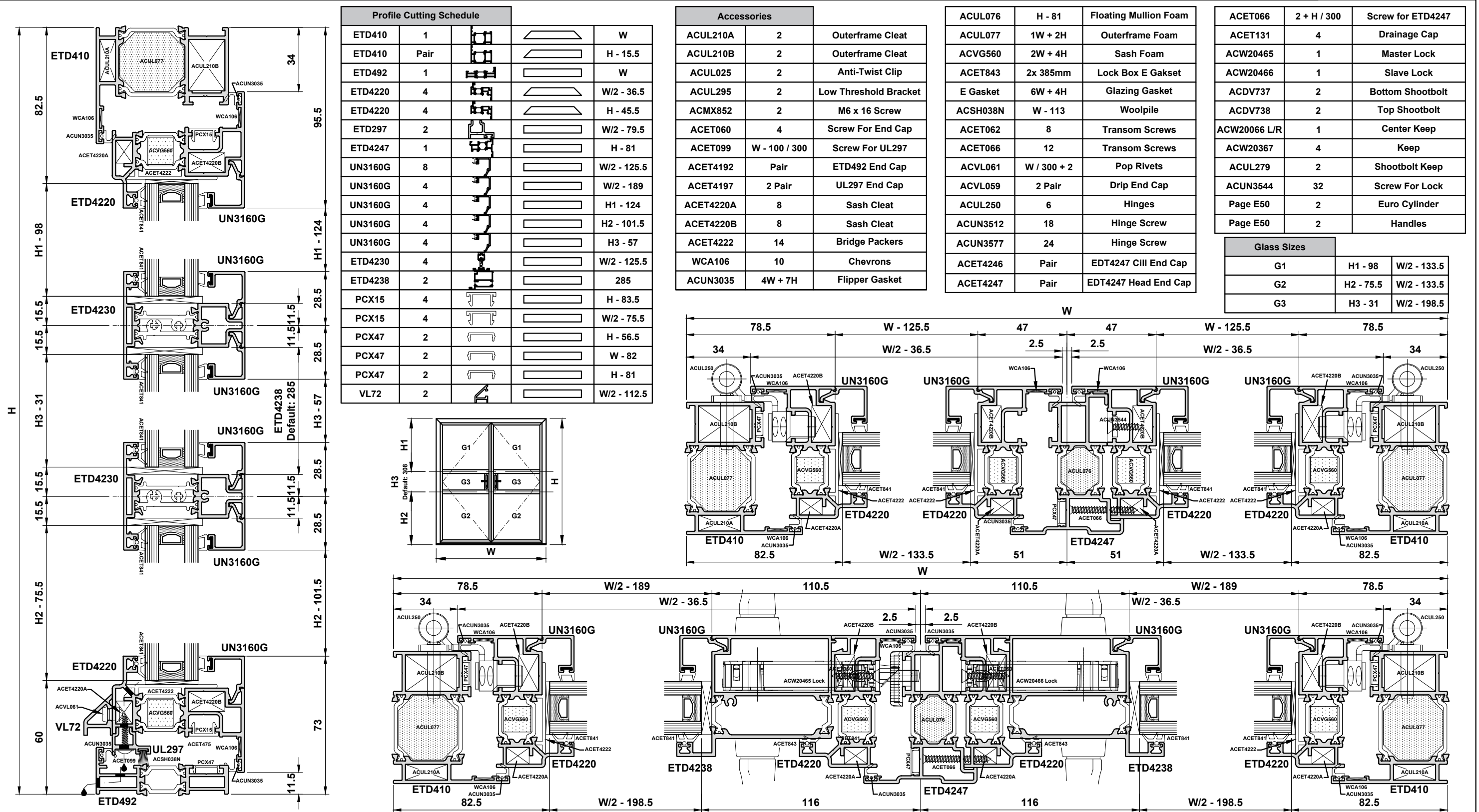
ACET066	2 + H / 300	Screw for ETD4247
ACET131	4	Drainage Cap
ACW20465	1	Master Lock
ACW20466	1	Slave Lock
ACDV737	2	Bottom Shootbolt
ACDV738	2	Top Shootbolt
ACW20066 L/R	1	Center Keep
ACW20367	4	Keep
ACUL279	2	Shootbolt Keep
ACUN3544	32	Screw For Lock
Page E50	2	Euro Cylinder
Page E50	2	Handles

Glass Sizes		
G1	H1 - 98	W/2 - 133.5
G2	H2 - 75.5	W/2 - 133.5
G3	H3 - 31	W/2 - 198.5



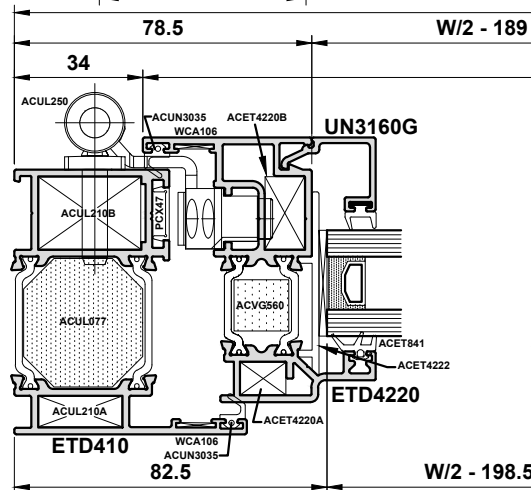
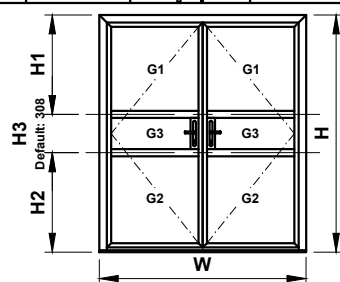
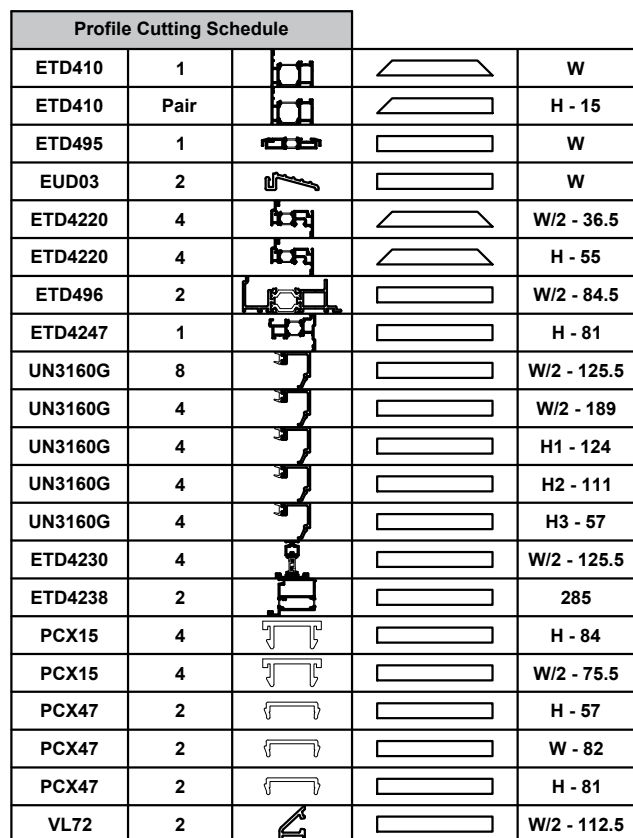
Do Not Scale From This Drawing

Open In Heritage Double Door ETD492 Low Rebate Quick-Glaze Bead

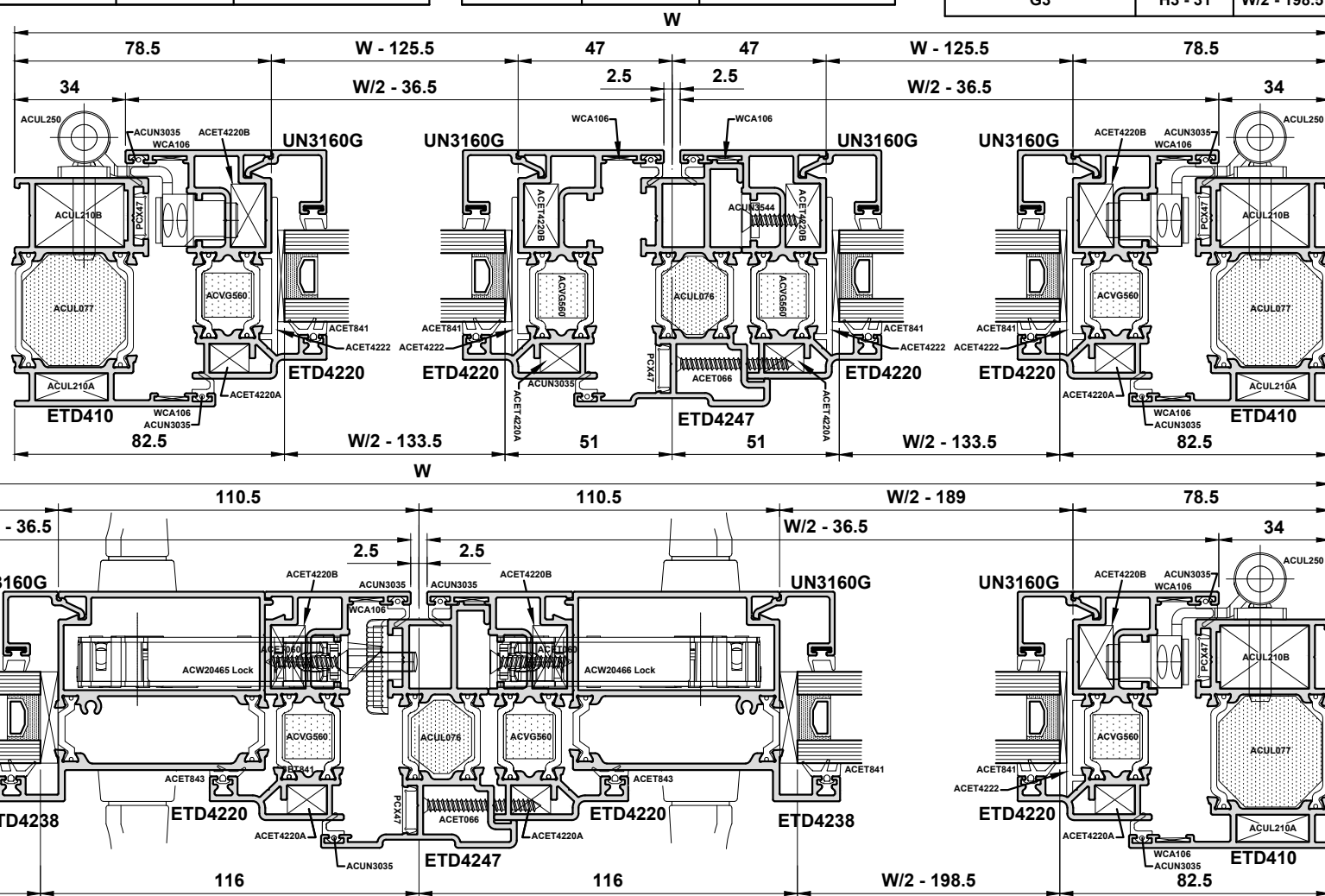


Do Not Scale From This Drawing

Open In Heritage Double Door Low Ramp Quick-Glaze Bead



Accessories		
ACUL210A	2	Outerframe Cleat
ACUL210B	2	Outerframe Cleat
ACUL295	2	Low Threshold Bracket
ACMX852	2	M6 x 16 Screw
ACET060	4	Screw For End Cap
ACET4196	2 Pair	ETD496 End Cap
ACET066	2x W-100 / 300	Fixing Screw for ETD496
ACET4195	Pair	ETD495 End Cap
ACET4220A	8	Sash Cleat
ACET4220B	8	Sash Cleat
ACET4222	14	Bridge Packers
WCA106	10	Chevrons
ACUN3035	4W + 7H	Flipper Gasket
ACUL076	H - 81	Floating Mullion Foam



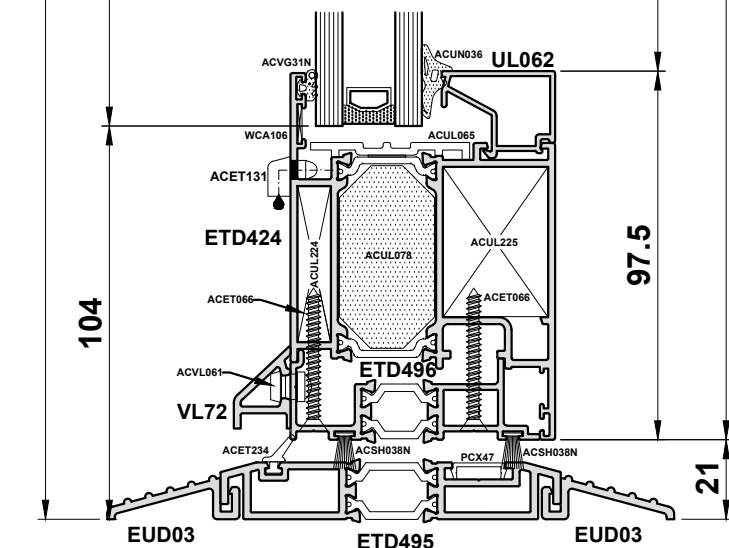
ACUL077	1W + 2H	Outerframe Foam
ACVG560	2W + 4H	Sash Foam
ACET843	2x 385mm	Lock Box E Gasket
E Gasket	6W + 4H	Glazing Gasket
ACSH038N	2x W - 113	Woolpile
ACET062	8	Transom Screws
ACET066	12	Transom Screws
ACVL061	W / 300 + 2	Pop Rivets
ACVL059	2 Pair	Drip End Cap
ACUL250	6	Hinges
ACUN3512	18	Hinge Screw
ACUN3577	24	Hinge Screw
ACET4242	Pair	EDT4247 Cill End Cap
ACET4247	Pair	EDT4247 Head End Cap
ACET066	2 + H / 300	Screw for ETD4247

ACET131	4	Drainage Cap
ACW20465	1	Master Lock
ACW20466	1	Slave Lock
ACDV737	2	Bottom Shootbolt
ACDV738	2	Top Shootbolt
ACW20066 L/R	1	Center Keep
ACW20367	4	Keep
ACUL279	2	Shootbolt Keep
ACUN3544	32	Screw For Lock
Page E50	2	Euro Cylinder
Page E50	2	Handles

Glass Sizes		
G1	H1 - 98	W/2 - 133.5
G2	H2 - 85	W/2 - 133.5
G3	H3 - 31	W/2 - 198.5

Do Not Scale From This Drawing

Open In Double Door Finger Bolt Full Frame



MIDRAIL	ETD430	2			W / 2 - 197
	BEAD	8			W / 2 - 197
	BEAD	4			H1 - 177
	BEAD	4			H2 - 190

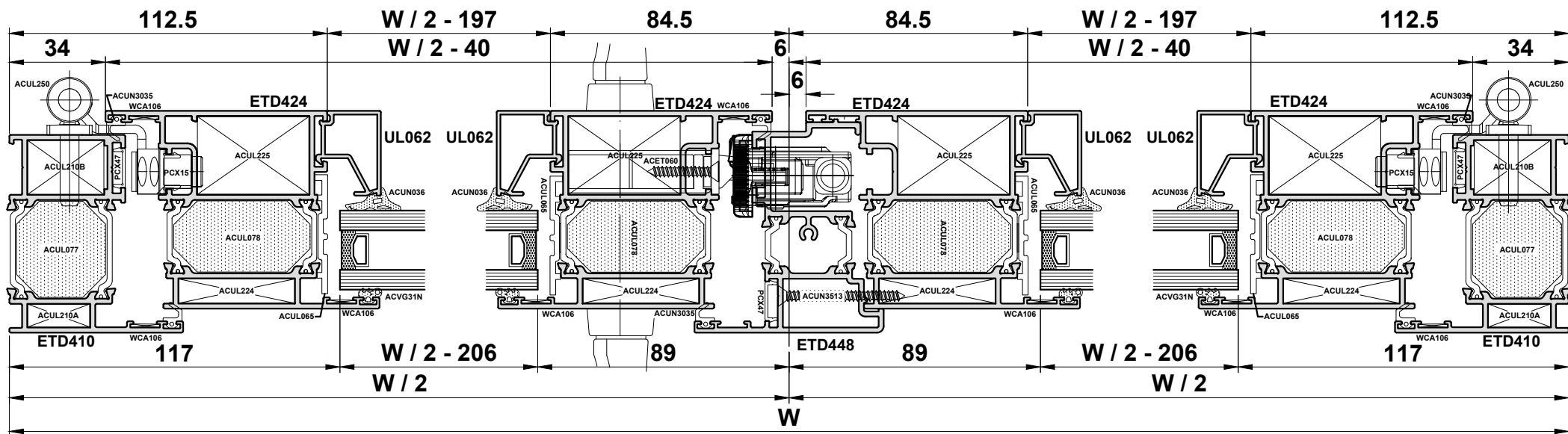
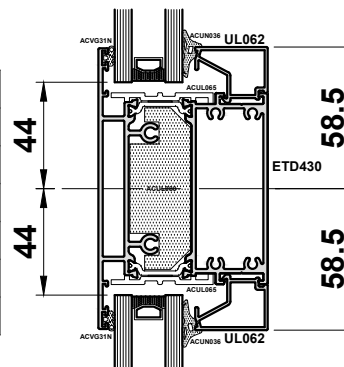
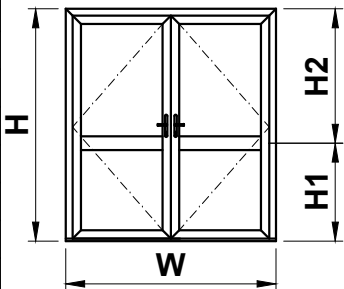
Glass Sizes		
<u>Without</u> ETD430	H - 221	W / 2 - 206
Top Glass <u>With</u> ETD430	H2 - 161	W / 2 - 206
Bottom Glass <u>With</u> ETD430	H1 - 148	W / 2 - 206

Accessories		
ACCY6035S3	1	Euro Cylinder
**	**	Handles
ACET060	4	Fixing Screw for ACET4195
ACET060	16	Screw for Lock
ACET066	2 x W - 100 / 300	Fixing Screw for ETD496
ACET234	1 x W	Flipper Gasket
ACET4190	Pair	ETD490 End Cap
ACET4143	Kit	ETD448/ETD496 End Cap
ACET4148	Pair	ETD448 End Cap at Head
ACET4195	Pair	ETD495 End Cap
ACET4196	Pair	ETD496 End Cap
ACET475	4	Run Up Block
ACIM062	24	Screw for ACUL250
ACPD844	1	Shootbolt Adaptor
ACPD84..	2	10mm Dia Glavanised Rod
ACSH038N	2 x W	Woolpile
ACSM015	Pair	Escutcheon
ACUL065	20	Bridge Packers
ACUL077	W & 2 x H	Outer Frame Foam
ACUL078	4 x W / 2 & 4 x H	Sash Foam
ACUL210A	2	Outer Frame Cleat
ACUL210B	2	Outer Frame Cleat
ACUL224	8	Sash Cleat
ACUL225	8	Sash Cleat
ACUL242	2	Finger Bolt Guide

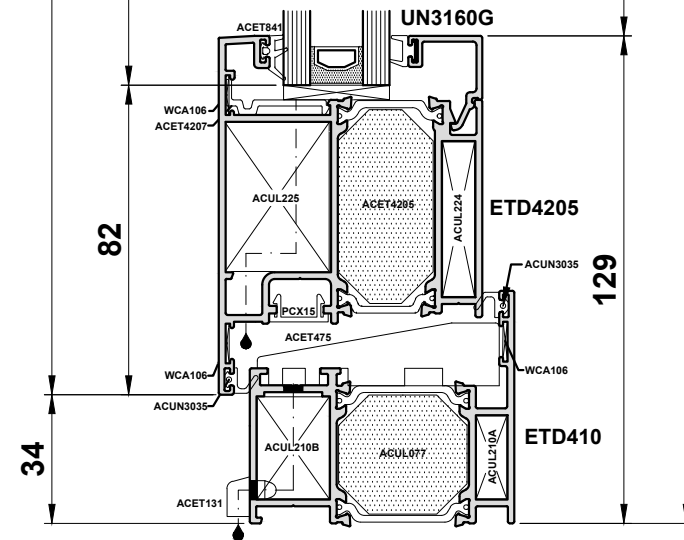
ACUL250	6	Hinge
ACUL295	2	Low Threshold Bracket
ACUL390	Pair	Finger Bolt Flat Keep
ACUN036	4 x W / 2 & 4 x H	Wedge Gasket
ACUN3035	4 x W & 6 x H	Flipper Gasket
ACUN3512	18	Screw for ACUL250
ACUN3513	2 + H / 300	Screw for ETD448
ACVG31N	4 x W / 2 & 4 x H	E Gasket
ACVL072	2 Pair	VL72 End Cap
ACVL061	W/300 + 2	VL72 Rivet
WCA106	18	Chevrans
*	1	Double Door Primary Lock

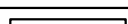
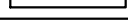
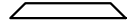
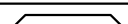
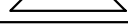
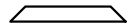
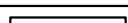
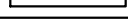
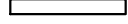
***See Page E20 for lock options.**
****See B & E for handle options.**

Midrail Accessories		
ACUL080	2 x W / 2	ETD430 Foam
ACUL065	8	Bridge Packer
ACUL025	8	Anti-Twist Clip
ACUL299	2	Bracket
ACUN036	4 x W / 2	Wedge Gasket
ACUN3512	4	Screw
ACVG31N	4 x W / 2	E Gasket



Do Not Scale From This Drawing



Profile Cutting Schedule				
UN3160G	2			H - 258
UN3160G	2			W - 224
ETD410	2			W
ETD410	2			H
ETD4205	2			W - 68
ETD4205	2			H - 68
PCX15	2			H - 106
PCX15	2			W - 106
PCX47	2			H - 82
PCX47	2			W - 82
VL72	1			W - 11

MIDRAIL	ETD4302	1			W - 224
	UN3160G	4			W - 224
	UN3160G	2			H1 - 187
	UN3160G	2			H2 - 187

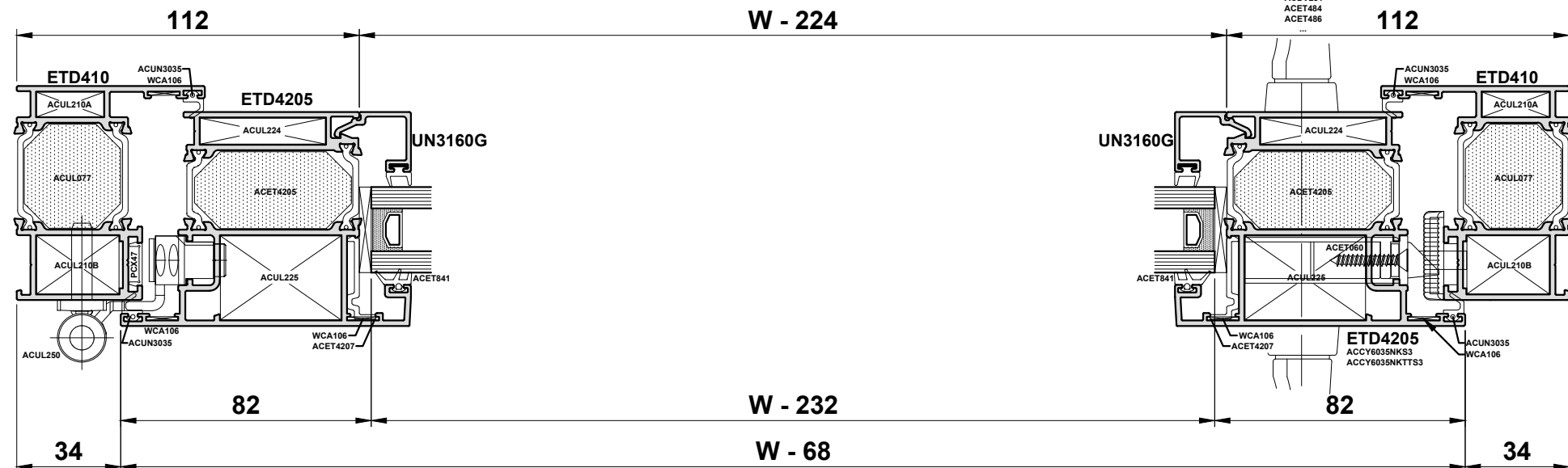
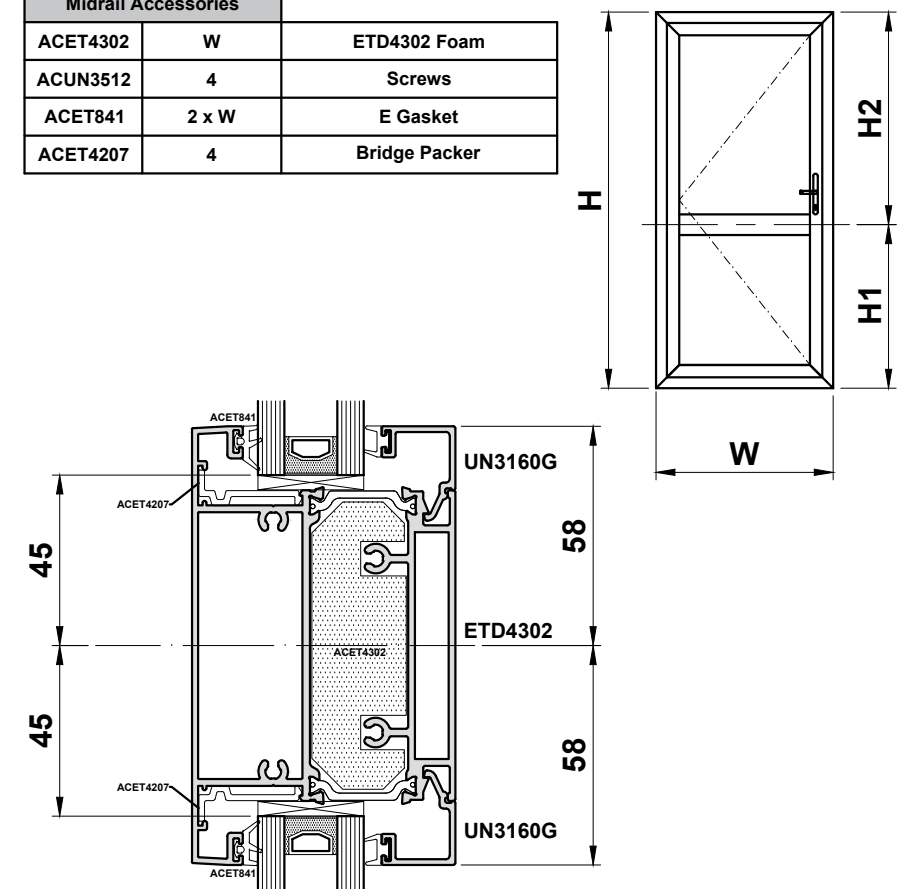
Glass Sizes		
<u>Without</u> ETD4302	H - 232	W - 232
Top Glass <u>With</u> ETD4302	H2 - 161	W - 232
Bottom Glass <u>With</u> ETD4302	H1 - 161	W - 232

Accessories		
ACCY3560S3	1	Euro Cylinder
**	**	Handles
ACET060	16	Screws for Lock
ACET131	2	Drainage Cap
ACET4205	2 x W & 2 X H	Sash Foam
ACET4207	10	Bridge Packers
ACET475	2	Run Up Block
ACET841	2 x W & 2 x H	E Gasket
ACIM062	12	Screw for ACUL250
ACUL077	2 x W & 2 x H	Outer Frame Foam
ACUL210A	4	Outer Frame Cleat
ACUL210B	4	Outer Frame Cleat
ACUL224	4	Sash Cleat
ACUL225	4	Sash Cleat
ACUL250	3	Hinge
ACUN3035	4 x W & 4 x H	Flipper Gasket
ACUN3512	9	Screw for ACUL250
ACVL059 / ACVL072	1 Pair	VL72 End Cap
ACVL061	W/300 + 2	VL72 Rivet
WCA106	12	Chevrans
*	1	Primary Lock

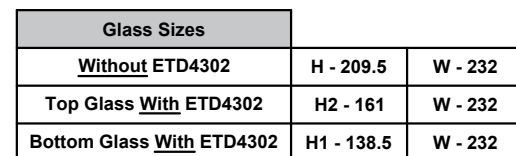
*See Page E72 for lock options.

****See B & E for handle options.**

Midrail Accessories		
ACET4302	W	ETD4302 Foam
ACUN3512	4	Screws
ACET841	2 x W	E Gasket
ACET4207	4	Bridge Packer



PAGE **F28** ISSUED: AUGUST 2025



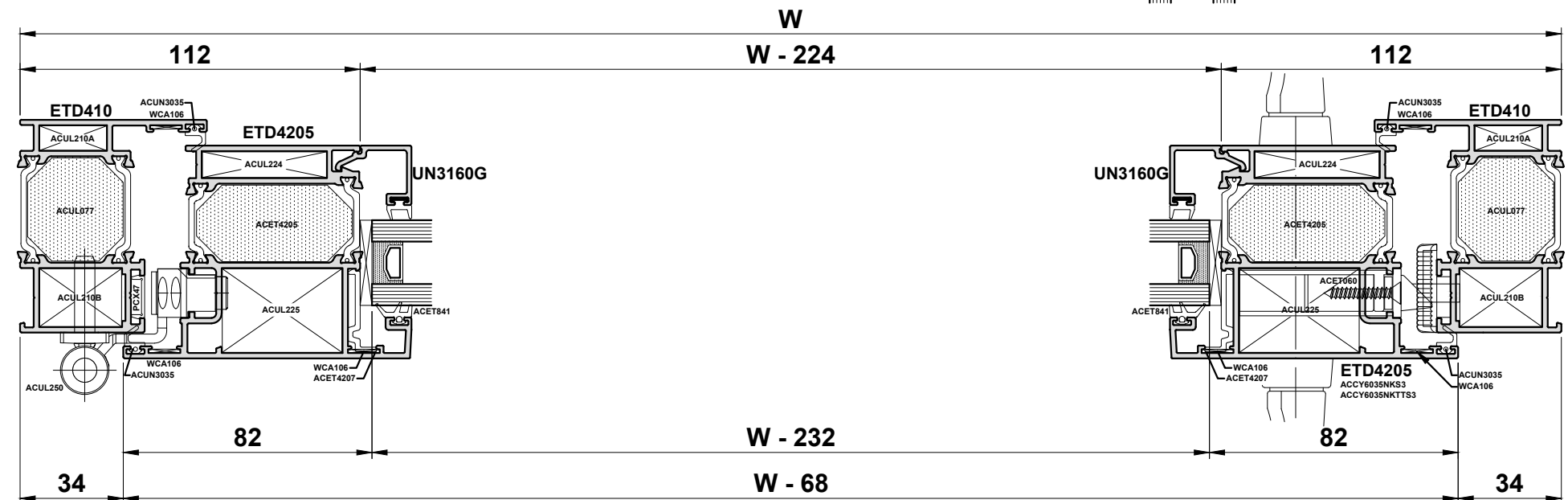
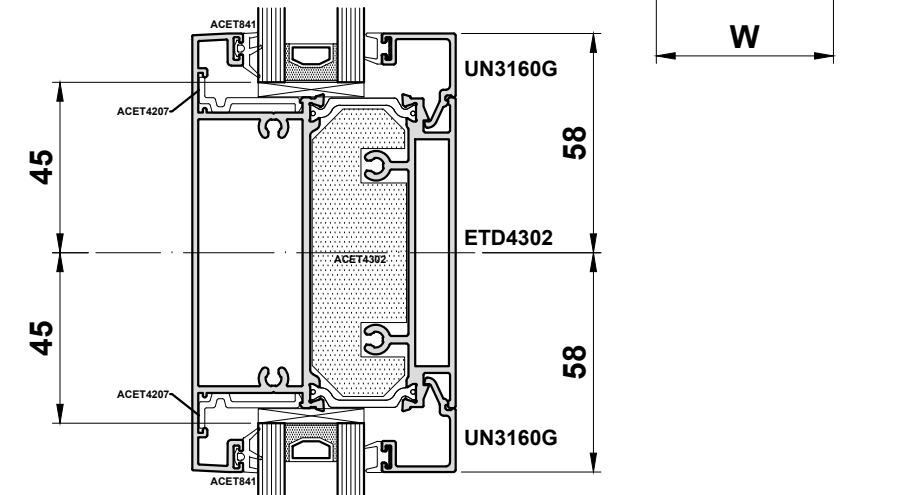
Accessories		
ACCY3560S3	1	Euro Cylinder
**	**	Handles
ACET060	16	Screws for Lock
ACET099	W - 100 / 300	Screw for UL297
ACET131	2	Drainage Cap
ACET4192	Pair	ETD492 End Cap
ACET4197	Pair	UL297 End Cap
ACET4205	2 x W & 2 X H	Sash Foam
ACET4207	10	Bridge Packers
ACET475	2	Run Up Block
ACET841	2 x W & 2 x H	E Gasket
ACIM062	12	Screw for ACUL250
ACSH038N	W	Woolpile
ACUL077	W & 2 x H	Outer Frame Foam
ACUL210A	2	Outer Frame Cleat
ACUL210B	2	Outer Frame Cleat
ACUL224	4	Sash Cleat
ACUL225	4	Sash Cleat
ACUL250	3	Hinge
ACUL295	2	Low Threshold Bracket
ACUN3035	4 x W & 4 x H	Flipper Gasket
ACUN3512	9	Screw for ACUL250

ACVL059 / ACVL072	1 Pair	VL72 End Cap
ACVL061	W/300 + 2	VL72 Rivet
WCA106	12	Chevrons
*	1	Primary Lock

*See Page E72 for lock options.

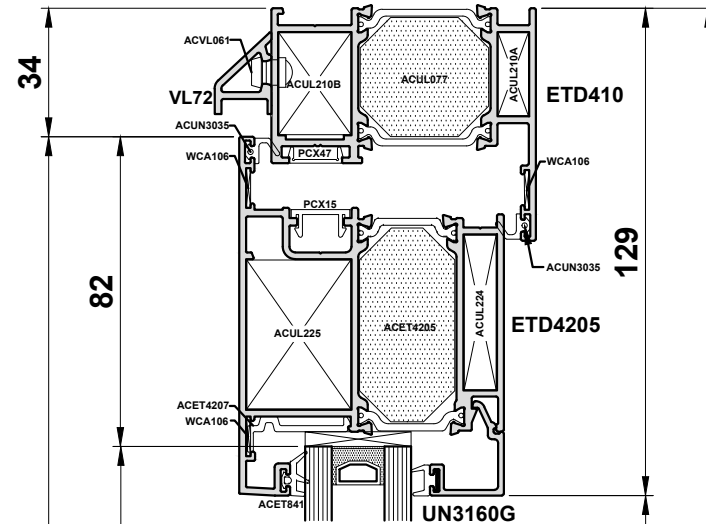
****See B & E for handle options.**

Midrail Accessories		
ACET4302	W	ETD4302 Foam
ACUN3512	4	Screws
ACET841	2 x W	E Gasket
ACET4207	4	Bridge Packer



Do Not Scale From This Drawing

Open Out Single Door Low Ramp Threshold Quick-Glaze Bead



Profile Cutting Schedule				
UN3160G	2			H - 245
UN3160G	2			W - 224
ETD410	1			W
ETD410	2			H - 15
ETD4205	2			W - 68
ETD4205	2			H - 55
ETD495	1			W
ETD496	1			W - 109
EUD03	2			W
PCX15	2			H - 68.5
PCX15	1			W - 106
PCX47	2			H - 56
PCX47	2			W - 82
VL72	1			W - 11
VL72	1			W - 81

MIDRAIL	ETD4302	1		W - 224
	UN3160G	4		W - 224
	UN3160G	2		H1 - 174
	UN3160G	2		H2 - 187

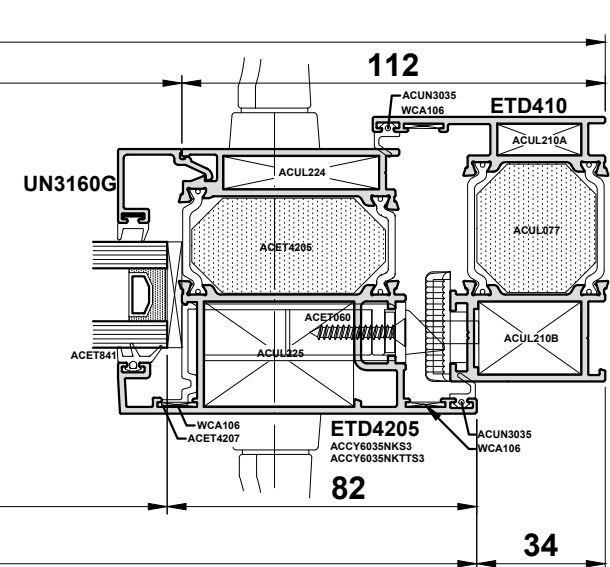
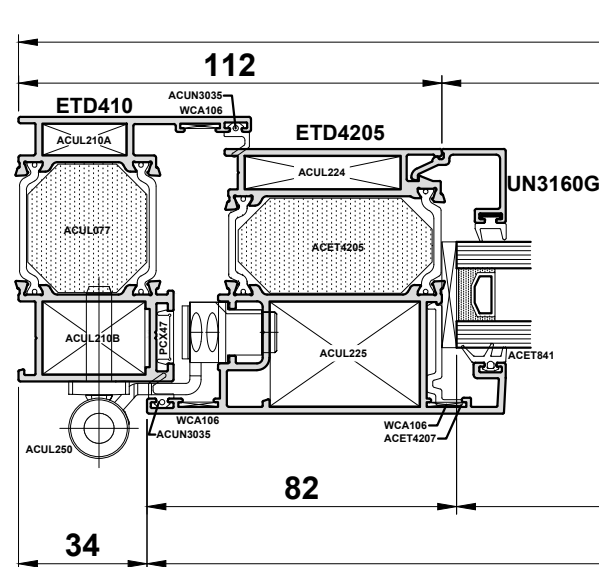
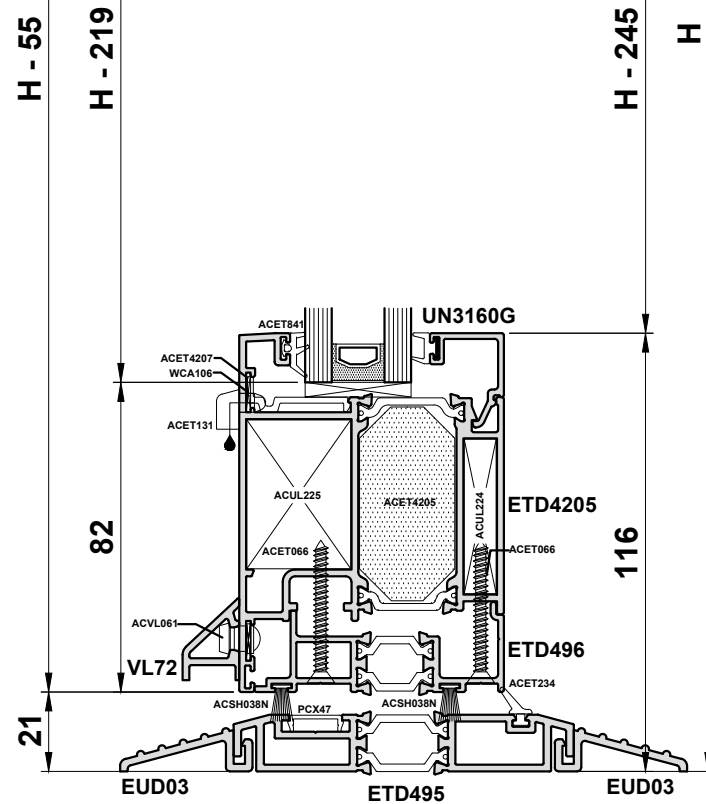
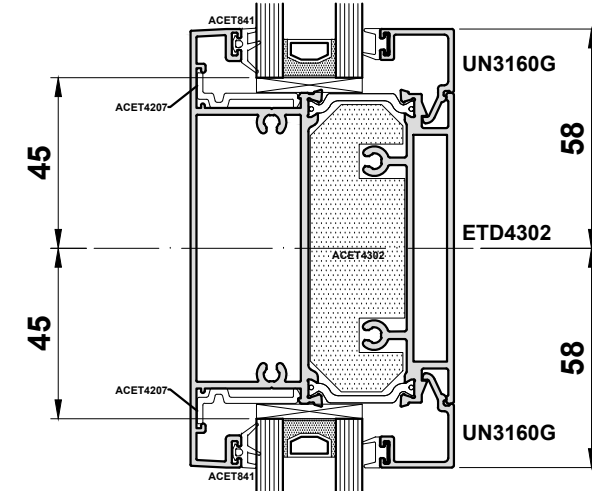
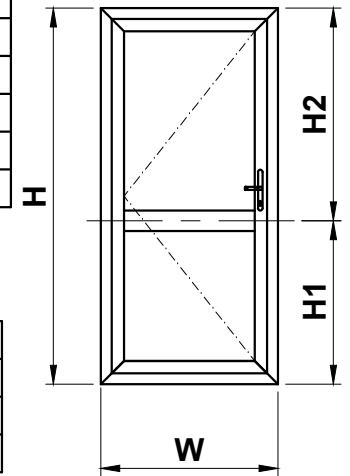
Glass Sizes		
Without ETD4302	H - 219	W - 232
Top Glass With ETD4302	H2 - 161	W - 232
Bottom Glass With ETD4302	H1 - 148	W - 232

Accessories		
ACCY3560S3	1	Euro Cylinder
ACDV251	Pair	Handles
ACET060	16	Screws for Lock
ACET060	4	Screw for ACET4195
ACET066	2 x W - 100 / 300	Fixing Screw for ETD496
ACET131	2	Drainage Cap
ACET234	1 x W	Flipper Gasket
ACET4195	Pair	ETD495 End Cap
ACET4196	Pair	ETD496 End Cap
ACET4205	2 x W & 2 X H	Sash Foam
ACET4207	10	Bridge Packers
ACET475	2	Run Up Block
ACET841	2 x W & 2 x H	E Gasket
ACIM062	12	Screw for ACUL250
ACUL077	W & 2 x H	Outer Frame Foam
ACUL210A	2	Outer Frame Cleat
ACUL210B	2	Outer Frame Cleat
ACUL224	4	Sash Cleat
ACUL225	4	Sash Cleat
ACUL250	3	Hinge
ACUL295	2	Low Threshold Bracket
ACSH038N	2 x W	Woolpile

ACUN3035	2 x W & 4 x H	Flipper Gasket
ACUN3512	9	Screw for ACUL250
ACVL059 / ACVL072	1 Pair	VL72 End Cap
ACVL061	W/300 + 2	VL72 Rivet
WCA106	10	Chevrons
*	1	Primary Lock

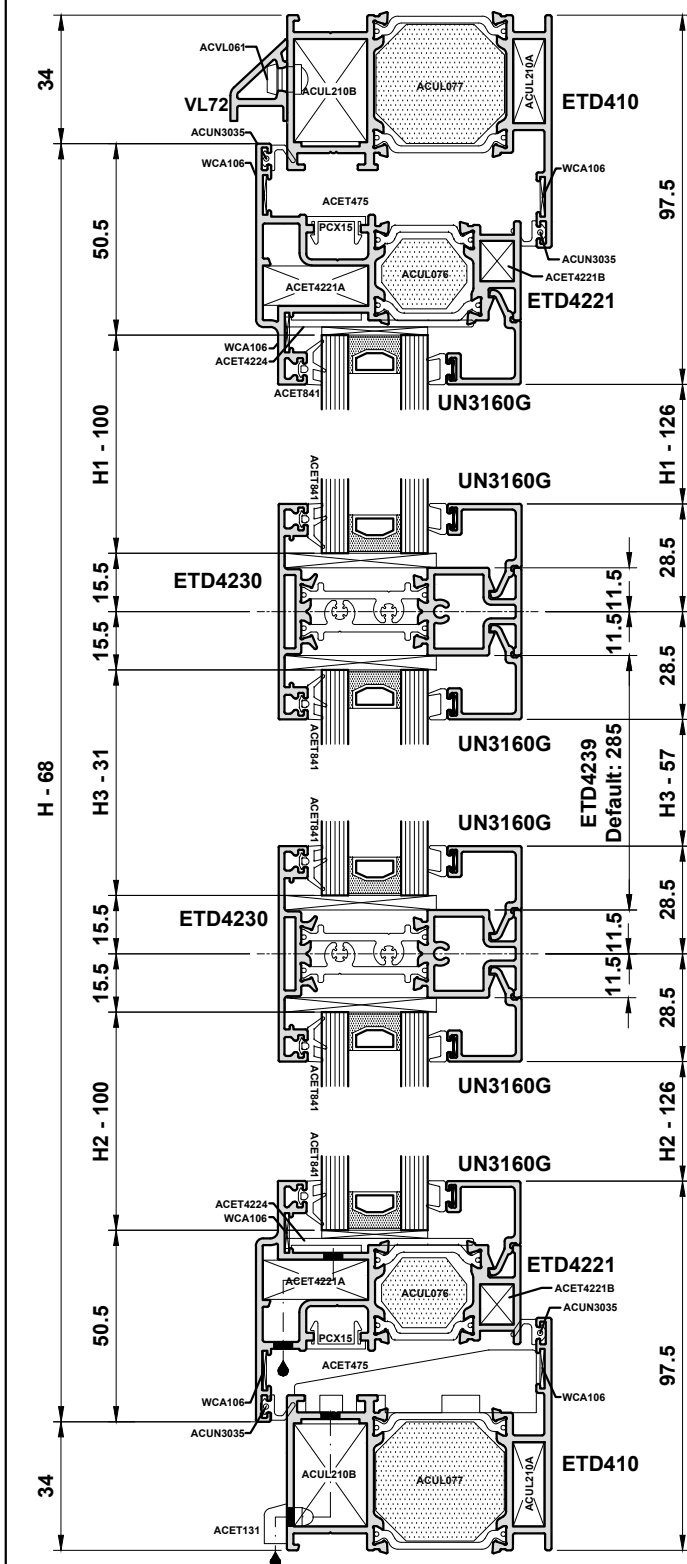
*See Page E72 for lock options.
**See B & E for handle options.

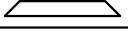
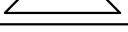
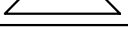
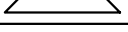
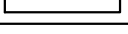
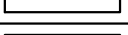
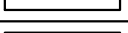
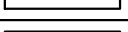
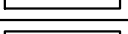
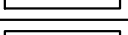
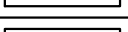
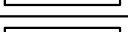
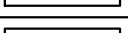
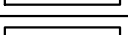
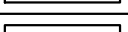
Midrail Accessories		
ACET4302	W	ETD4302 Foam
ACUN3512	4	Screws
ACET841	2 x W	E Gasket
ACET4207	4	Bridge Packer



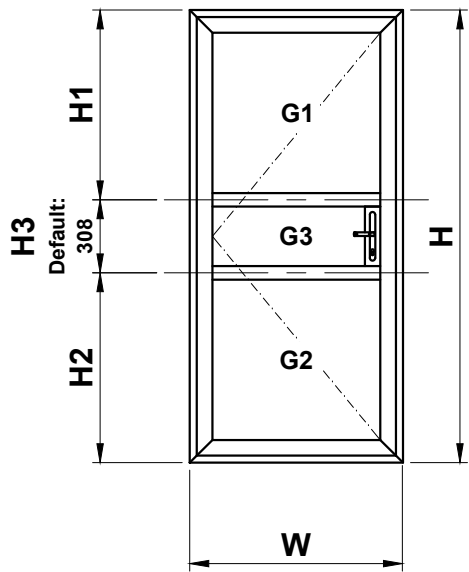
Do Not Scale From This Drawing

Open Out Heritage Single Door Full Frame Quick-Glaze Bead



Profile Cutting Schedule				
ETD410	2			W
ETD410	2			H
ETD4221	2			W - 68
ETD4221	2			H - 68
UN3160G	4			W - 161
UN3160G	2			W - 224.5
UN3160G	2			H1 - 126
UN3160G	2			H2 - 126
UN3160G	2			H3 - 57
ETD4230	2			W - 161
ETD4239	1			285
PCX15	2			H - 106
PCX15	2			W - 106
PCX47	2			H - 82
PCX47	2			W - 82
VL72	1			W - 11

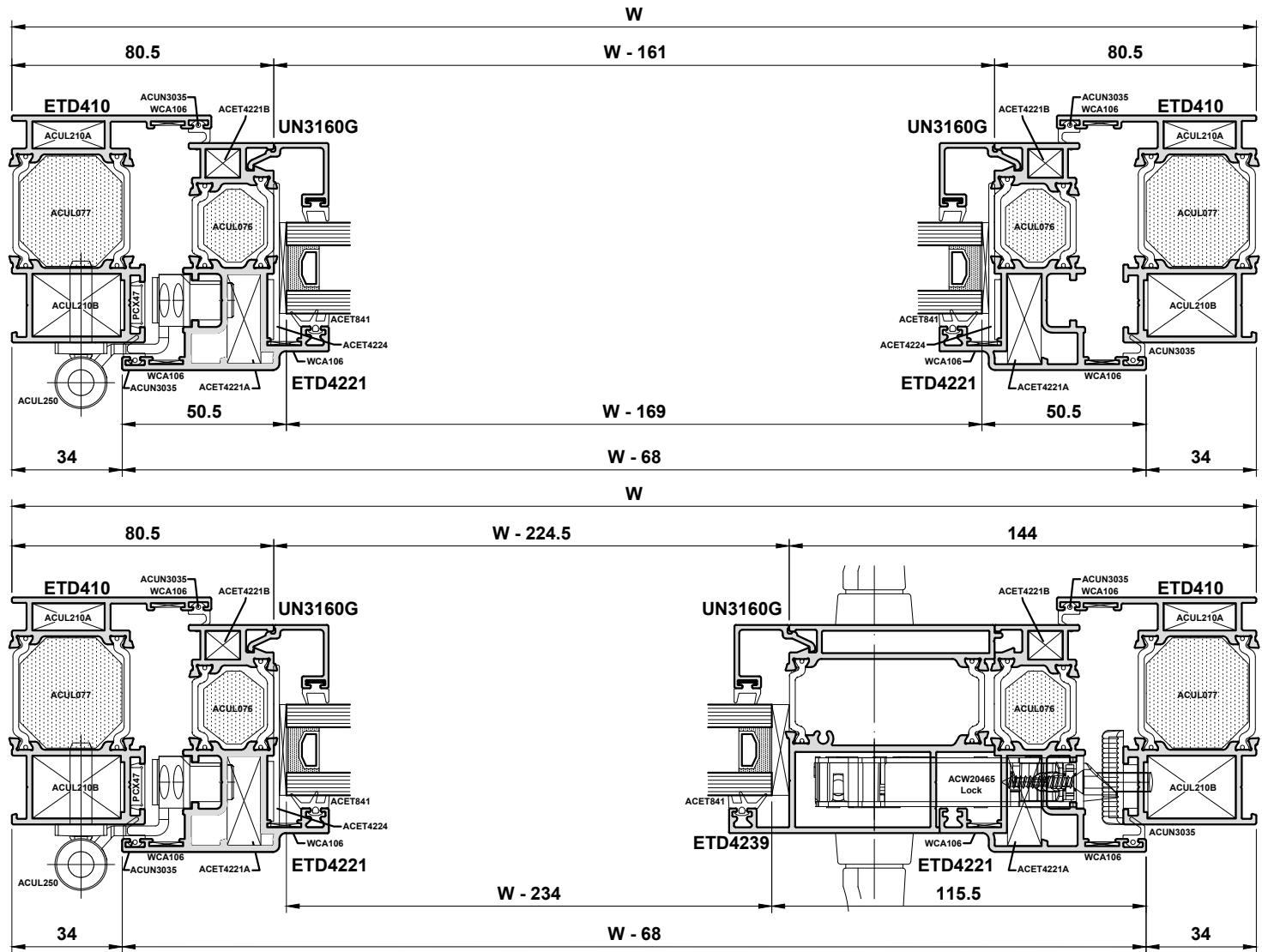
Glass Sizes		
G1	H1 - 100	W - 169
G2	H2 - 100	W - 169
G3	H3 - 31	W - 234



Accessories		
ACUL210A	4	Outerframe Cleat
ACUL210B	4	Outerframe Cleat
ACET4221A	4	Sash Cleat
ACET4221B	4	Sash Cleat
ACET4224	7	Bridge Packers
WCA106	8	Chevrons
ACUN3035	4W + 4H	Flipper Gasket
ACUL076	2W + 2H	Sash Foam
ACUL077	2W + 2H	Outerframe Foam
E Gasket	6W + 2H	Glazing Gasket
ACET475	2	Run Up Block

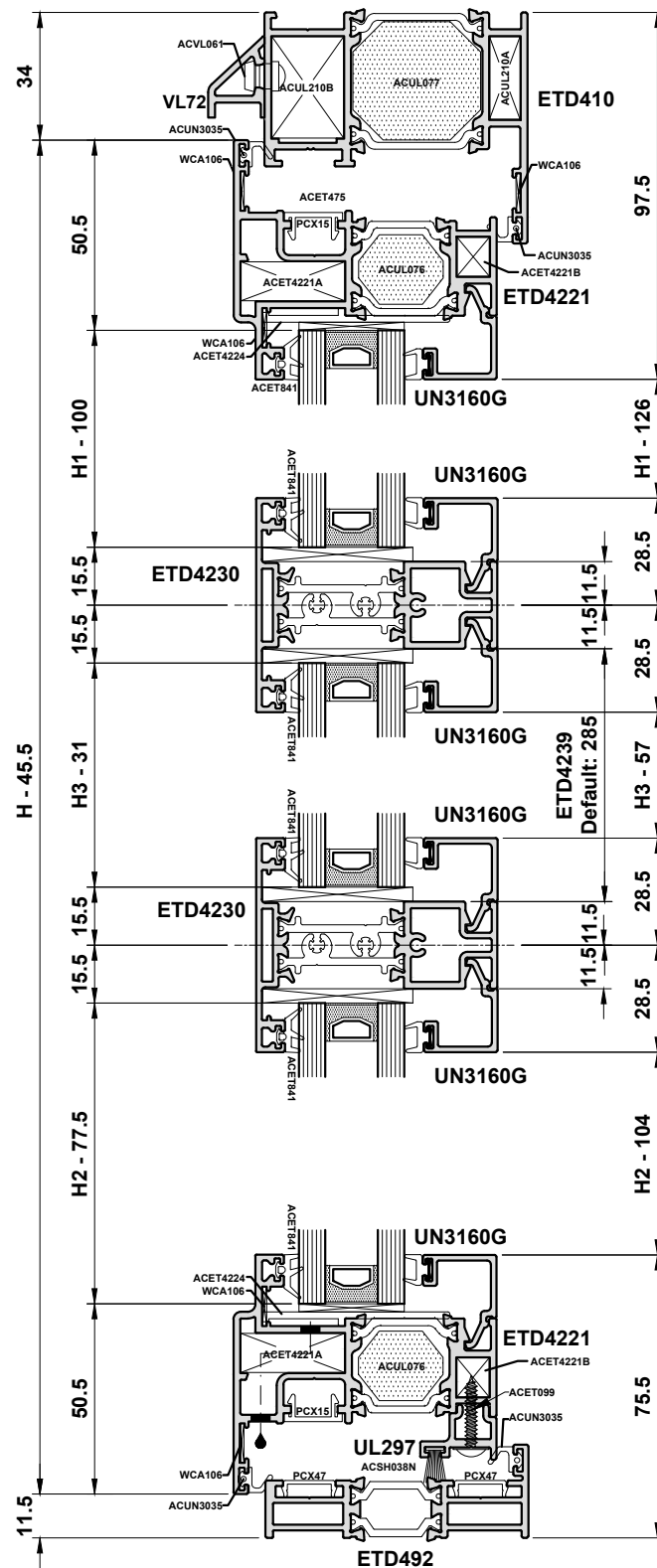
ACET062	4	Transom Screws
ACET066	6	Transom Screws
ACVL061	W/300 + 2	Pop Rivets
ACVL059	1 Pair	Drip End Cap
ACUL250	3	Hinges
ACUN3512	9	Hinge Screw
ACUN3577	12	Hinge Screw
ACET131	2	Drainage Cap
ACW20465	1	Lock
ACW20066 L/R	1	Center Keep
ACW20367	4	Keep

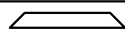
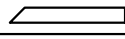
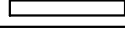
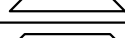
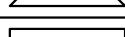
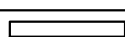
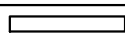
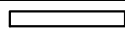
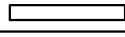
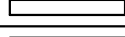
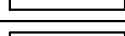
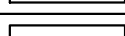
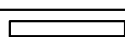
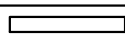
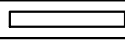
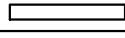
ACUN3544	16	Screw For Lock
Page E50	1	Euro Cylinder
Page E50	1	Handles



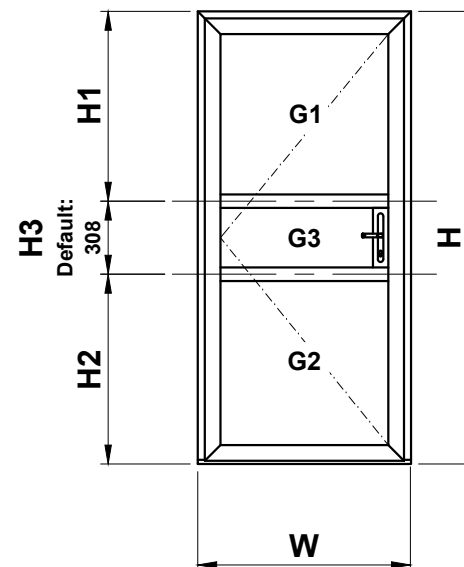
Do Not Scale From This Drawing

Open Out Heritage Single Door Low Rebate Quick-Glaze Bead



Profile Cutting Schedule				
ETD410	1			W
ETD410	Pair			H - 15.5
ETD492	1			W
ETD4221	2			W - 68
ETD4221	2			H - 45.5
UL297	1			W - 113
UN3160G	4			W - 161
UN3160G	2			W - 224.5
UN3160G	2			H1 - 126
UN3160G	2			H2 - 104
UN3160G	2			H3 - 57
ETD4230	2			W - 161
ETD4239	1			285
PCX15	2			H - 83.5
PCX15	2			W - 106
PCX47	2			H - 56.5
PCX47	3			W - 82
VL72	1			W - 11

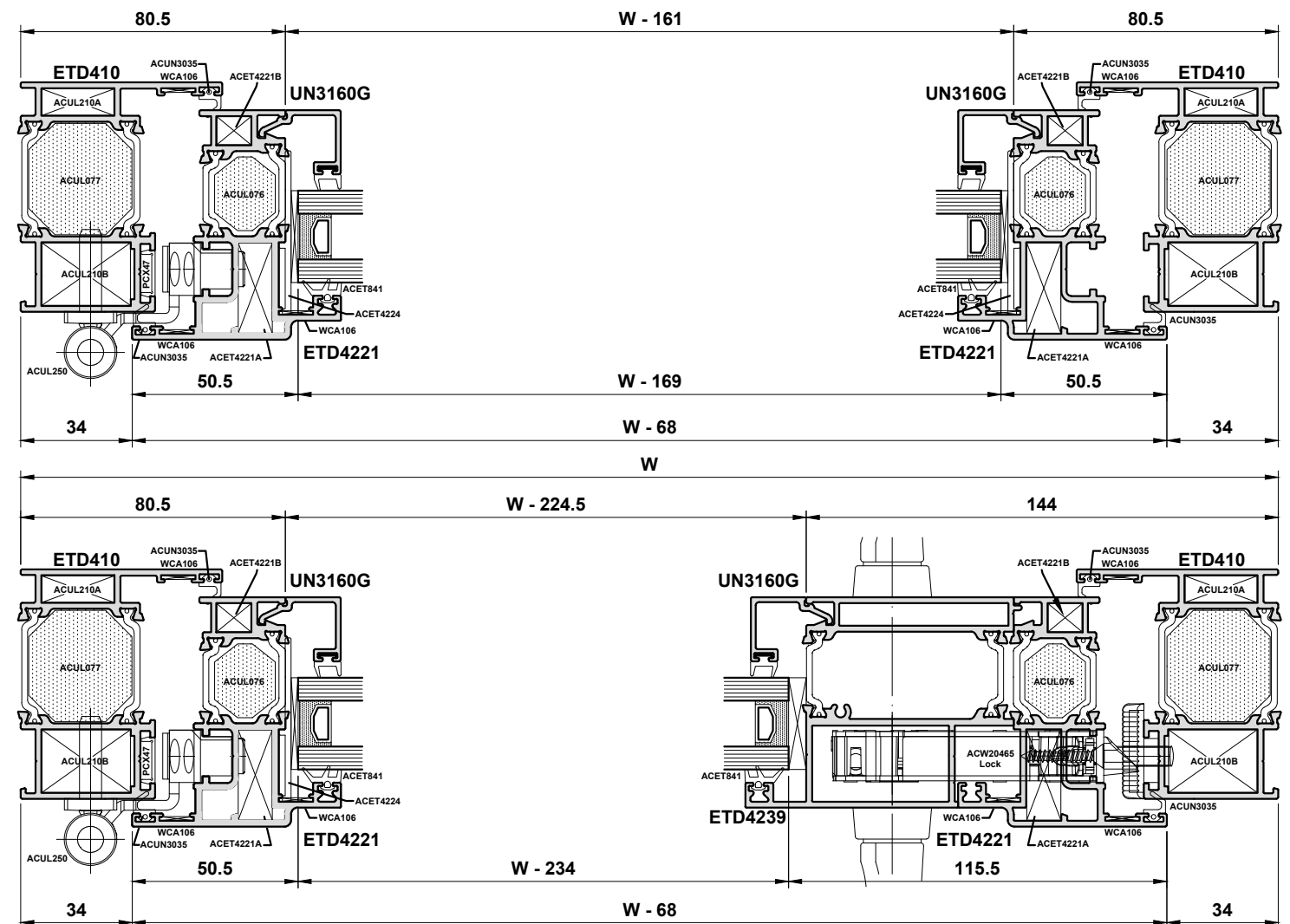
Glass Sizes		
G1	H1 - 100	W - 169
G2	H2 - 77.5	W - 169
G3	H3 - 31	W - 234



Accessories		
ACUL210A	2	Outerframe Cleat
ACUL210B	2	Outerframe Cleat
ACUL025	2	Anti-Twist Clip
ACUL295	2	Low Threshold Brackets
ACMX852	2	M6 x 16 Screw
ACET060	4	Screw For End Cap
ACET099	W - 100 / 300	Screw For UL297
ACET4192	Pair	ETD492 End Cap
ACET4197	Pair	UL297 End Cap
ACET4221A	4	Sash Cleat
ACET4221B	4	Sash Cleat

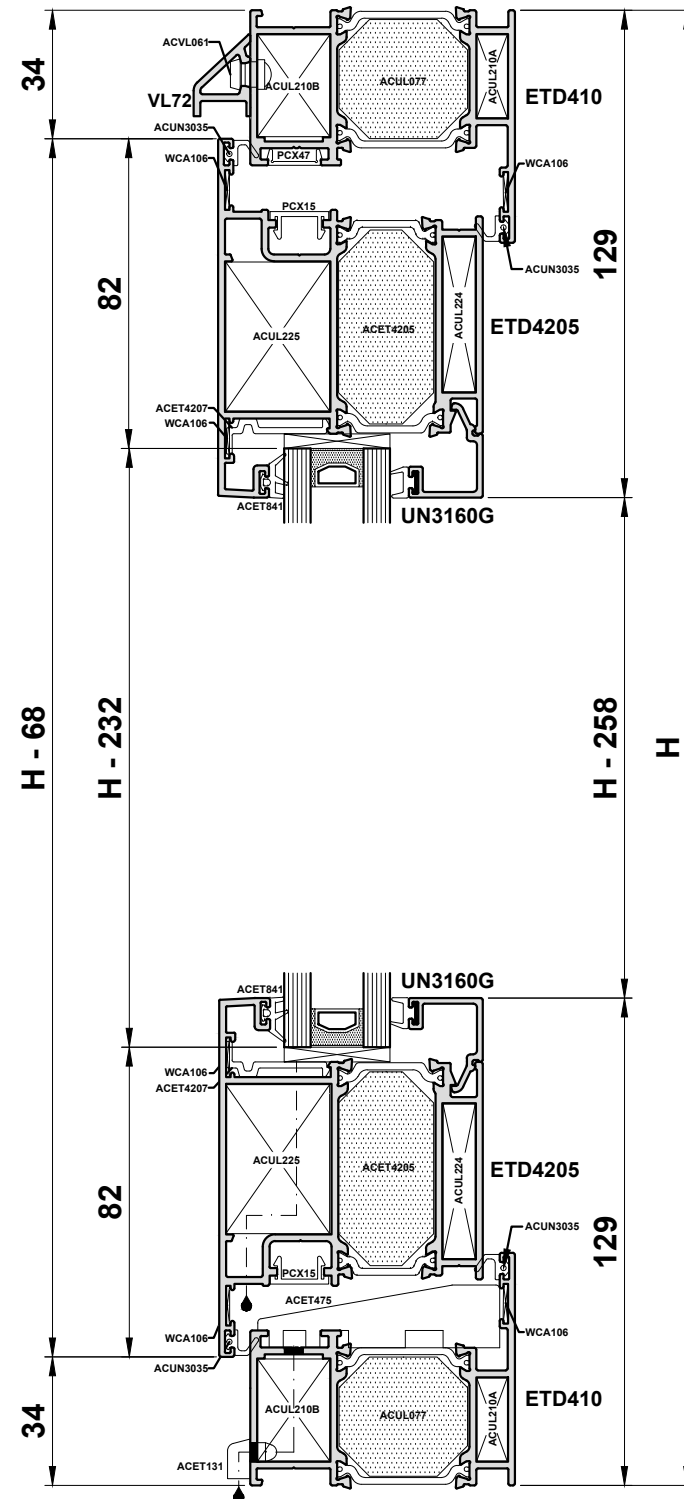
ACET4224	7	Bridge Packers
WCA106	6	Chevrons
ACUN3035	4W + 4H	Flipper Gasket
ACUL076	2W + 2H	Sash Foam
ACUL077	1W + 2H	Outerframe Foam
E Gasket	6W + 2H	Glazing Gasket
ACSH038N	W - 113	Woolpile
ACET062	4	Transom Screws
ACET066	6	Transom Screws
ACVL061	W/300 + 2	Pop Rivets
ACVL059	Pair	Drip End Cap

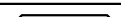
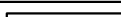
ACUL250	3	Hinges
ACUN3512	9	Hinge Screw
ACUN3577	12	Hinge Screw
ACET131	2	Drainage Cap
ACW20465	1	Lock
ACW20066 L/R	1	Center Keep
ACW20367	4	Keep
ACUN3544	16	Screw For Lock
Page E50	1	Euro Cylinder
Page E50	1	Handles



Do Not Scale From This Drawing

Open Out Double Door Lift Lever Full Frame Quick-Glaze Bead



Profile Cutting Schedule				
UN3160G	4			H - 258
UN3160G	4			W / 2 - 192.5
ETD410	2			W
ETD410	2			H
ETD4205	4			W / 2 - 36.5
ETD4205	4			H - 68
ETD447	1			H - 110
PCX15	4			H - 106
PCX15	4			W / 2 - 106
PCX47	2			H - 82
PCX47	1			H - 81
PCX47	2			W / 2 - 82
VL72	1			W - 11

MIDRAIL	ETD4302	2			W / 2 - 192.5
	UN3160G	8			W / 2 - 192.5
	UN3160G	4			H2 - 187
	UN3160G	4			H1 - 187

Glass Sizes		
<u>Without</u> ETD4302	H - 232	W / 2 - 200.5
Top Glass <u>With</u> ETD4302	H2 - 161	W / 2 - 200.5
Bottom Glass <u>With</u> ETD4302	H1 - 161	W / 2 - 200.5

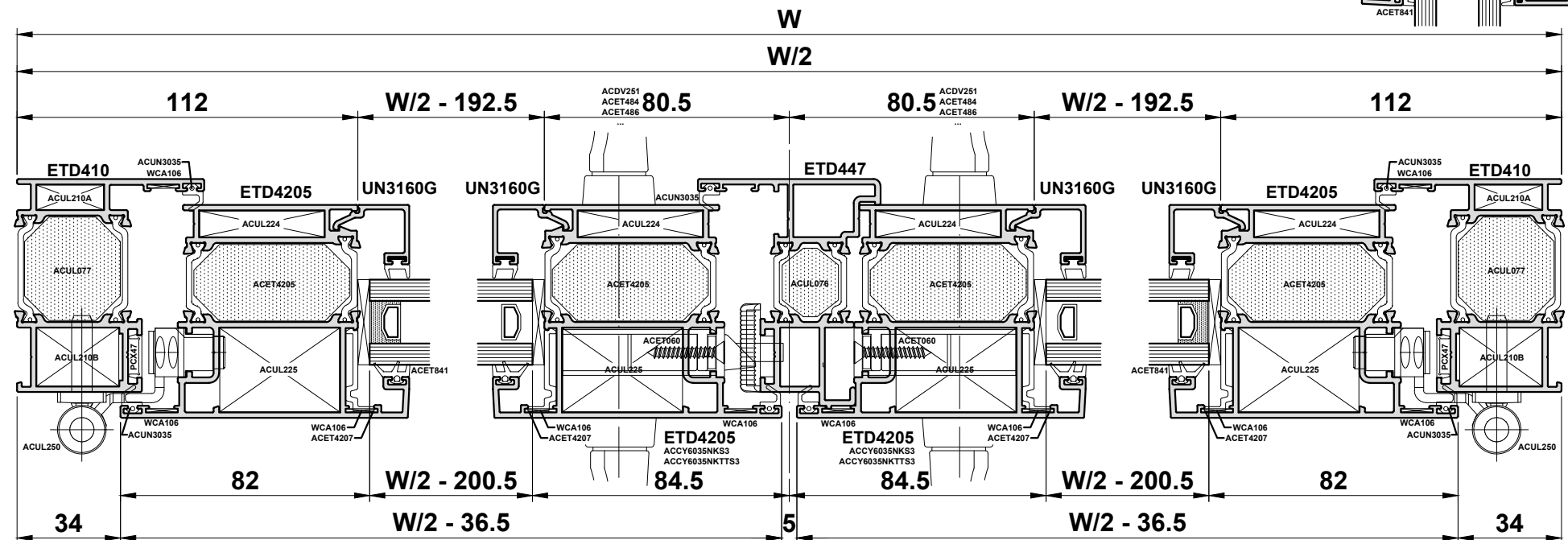
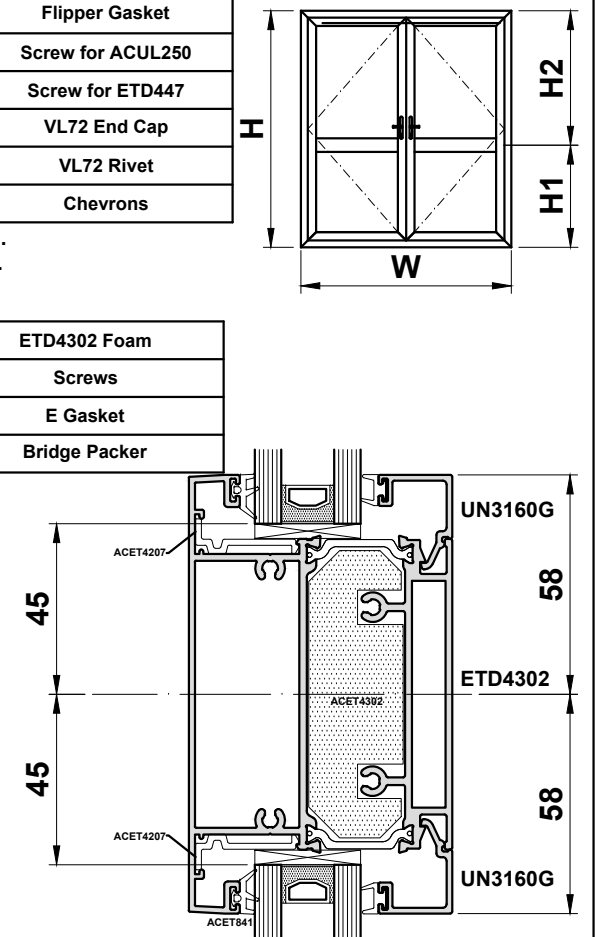
Accessories		
ACCY3560S3	2	Euro Cylinder
ACDV251	2 Pair	Handles
ACDV737	2	Shootbolt
ACDV738	2	Shootbolt
ACET060	40	Screw for Lock & Keep
ACET060	8	Screw for ACDV737/738
ACET131	4	Drainage Cap
ACET4147	Pair	ETD447 End Cap
ACET475	4	Run Up Block
ACIM062	24	Screw for ACUL250
ACET4207	20	Bridge Packers
ACUL076	H - 110	Floating Mullion Foam
ACUL077	2 x W & 2 x H	Outer Frame Foam
ACET4205	4 x W / 2 & 4 x H	Sash Foam
ACET841	4 x W / 2 & 4 x H	E Gasket
ACUL210A	4	Outer Frame Cleat
ACUL210B	4	Outer Frame Cleat
ACUL224	8	Sash Cleat
ACUL225	8	Sash Cleat
ACUL250	6	Hinge
ACUL276	1	Double Door Secondary Lock
ACUL277/8	1	Double Door Primary Lock
ACUL279	1	Double Door Keep Kit

ACUN3035	4 x W & 7 x H	Flipper Gasket
ACUN3512	18	Screw for ACUL250
ACUN3513	2 + H / 300	Screw for ETD447
ACVL059 / ACVL072	2 Pair	VL72 End Cap
ACVL061	W/300 + 2	VL72 Rivet
WCA106	20	Chevrons

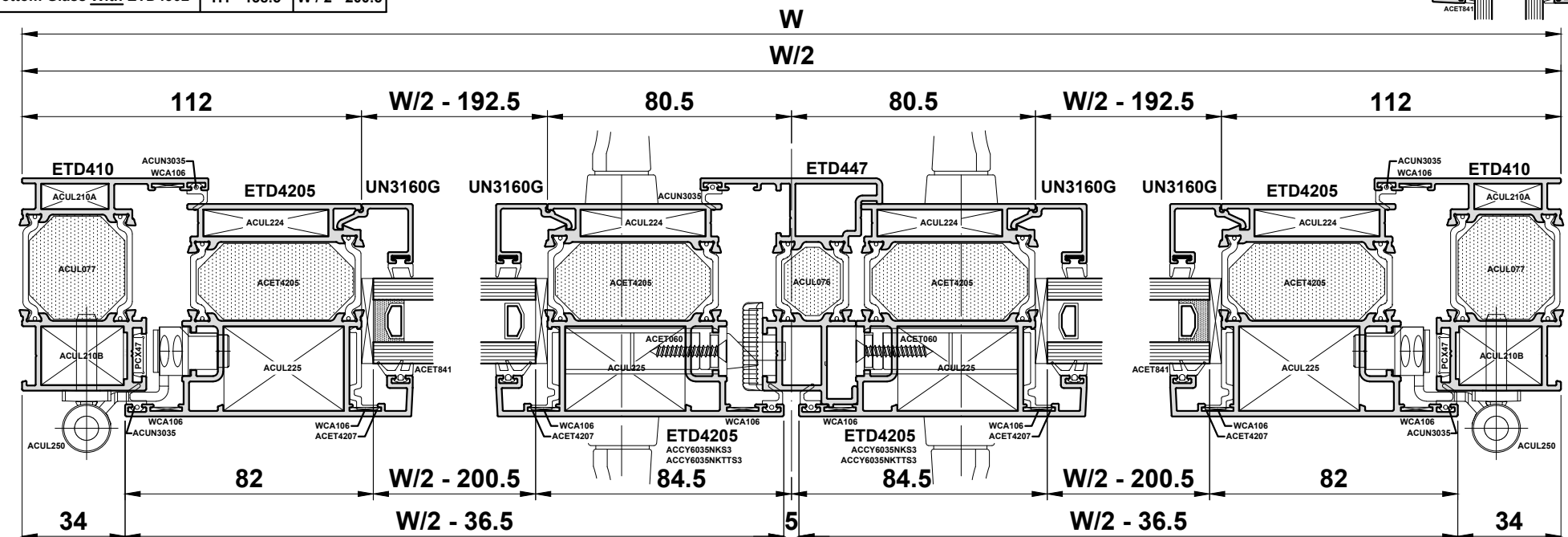
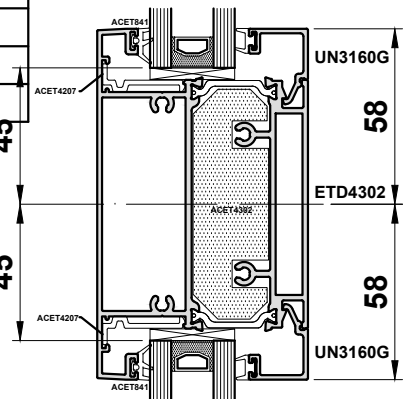
*See Page E72 for lock options.

****See B & E for handle options.**

Midrail Accessories		
ACET4302	2 x W / 2	ETD4302 Foam
ACUN3512	8	Screws
ACET841	4 x W	E Gasket
ACET4207	8	Bridge Packer



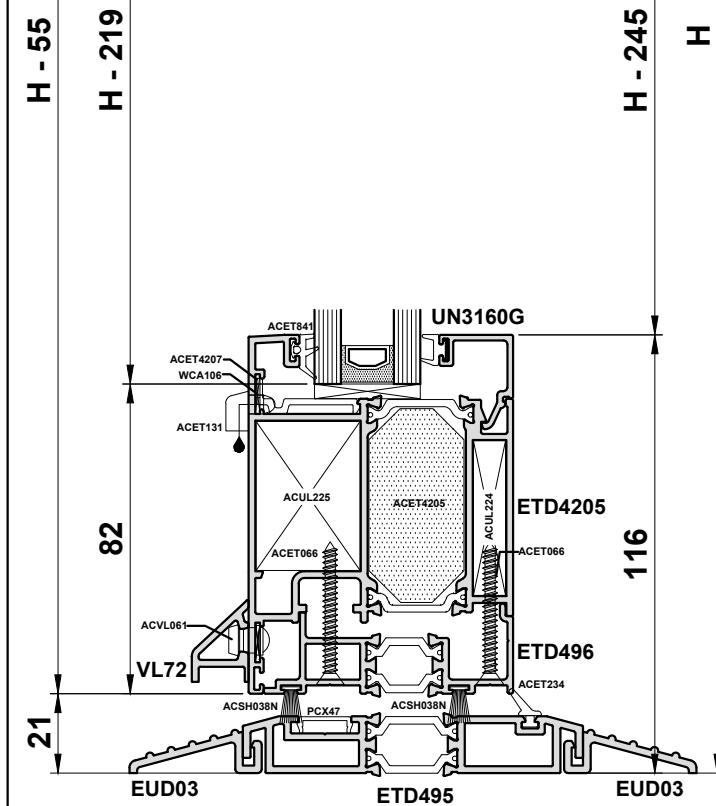
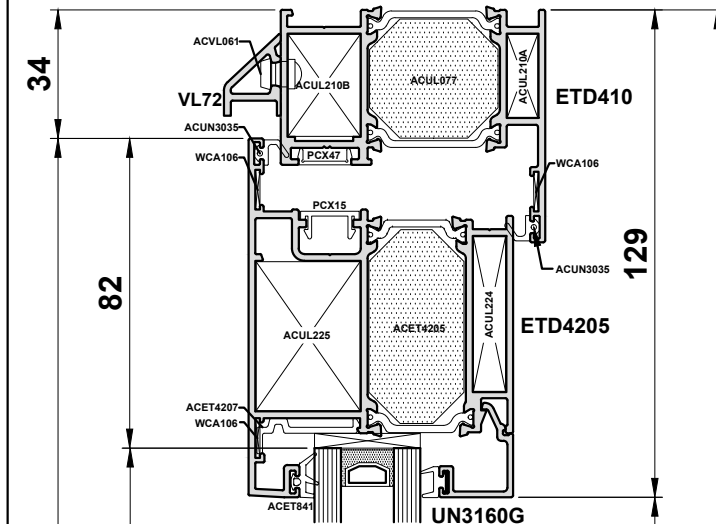
Do Not Scale From This Drawing

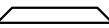
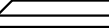
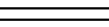
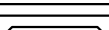
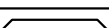
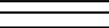
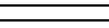
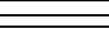
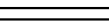
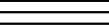
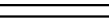
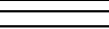
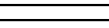
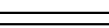
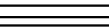
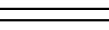
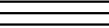


PAGE F35

Alitherm 400 Stepped Door

Open Out Double Door Lift Lever Low Ramp Threshold Quick-Glaze Bead



Profile Cutting Schedule				
ETD410	1			W
ETD410	2			H - 15
ETD495	1			W
EUD03	2			W
ETD4205	4			W / 2 - 36.5
ETD4205	4			H - 55
ETD496	2			W / 2 - 84.5
ETD447	1			H - 81
UN3160G	4			H - 245
UN3160G	4			W / 2 - 192.5
PCX15	4			H - 53.5
PCX15	4			W / 2 - 106
PCX47	2			H - 55
PCX47	1			H - 81
PCX47	2			W / 2 - 82
VL72	1			W - 11
VL72	2			W / 2 - 49.5

MIDRAIL	ETD4302	2			W / 2 - 192.5
	UN3160G	8			W / 2 - 192.5
	UN3160G	4			H1 - 175
	UN3160G	4			H2 - 188

Glass Sizes		
<u>Without</u> ETD4302	H - 219	W / 2 - 200.5
Top Glass <u>With</u> ETD4302	H2 - 161	W / 2 - 200.5
Bottom Glass <u>With</u> ETD4302	H1 - 148	W / 2 - 200.5

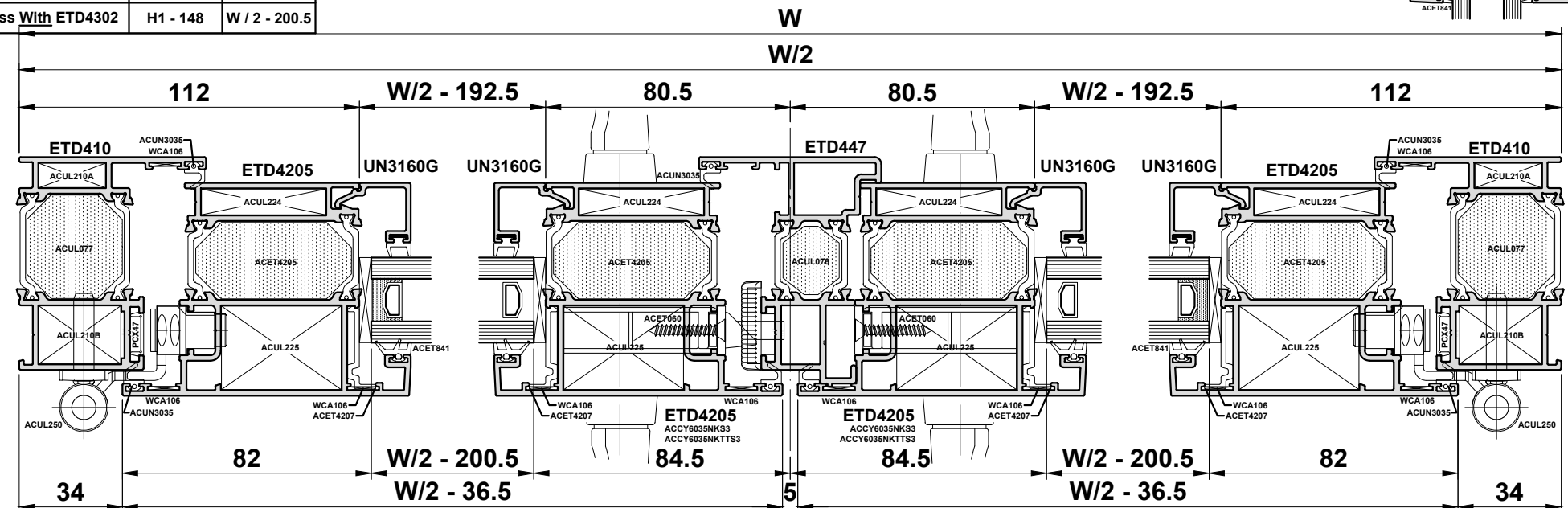
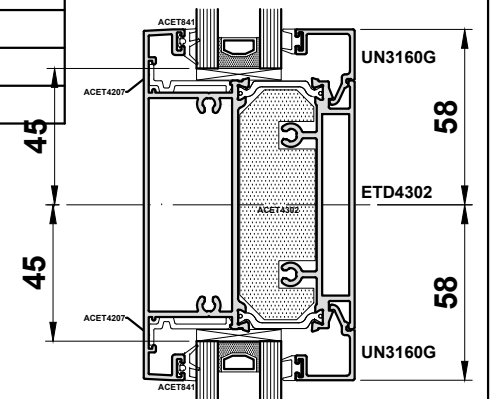
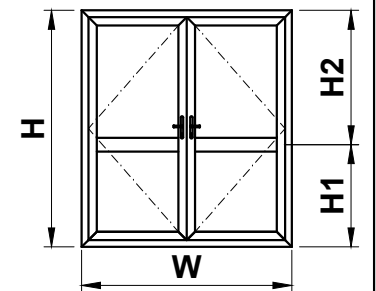
Accessories		
ACCY3560S3	2	Euro Cylinder
ACDV251	2 Pairs	Handles
ACDV737	2	Shootbolt
ACDV738	2	Shootbolt
ACET060	4	Fixing Screw for ACET4195
ACET060	40	Screw for Lock & Keep
ACET060	8	Screw for ACDV737/738
ACET066	2 x W - 100 / 300	Fixing Screw for ETD496
ACET234	1 x W	Flipper Gasket
ACET4142	Kit	ETD447/ETD496 End Cap
ACET4147	Kit	End Cap at Head
ACET4195	Pair	ETD495 End Cap
ACET4196	Pair	ETD496 End Cap
ACET4205	4 x W / 2 & 4 x H	Sash Foam
ACET4207	20	Bridge Packers
ACET475	4	Run Up Block
ACET841	4 x W / 2 & 4 x H	E Gasket
ACIM062	24	Screw for ACUL250
ACSH038N	2 x W	Woolpile
ACUL076	H - 81	Floating Mullion Foam
ACUL077	W & 2 x H	Outer Frame Foam
ACUL210A	2	Outer Frame Cleat
ACUL210B	2	Outer Frame Cleat
ACUL224	8	Sash Cleat

ACUL225	8	Sash Cleat
ACUL250	6	Hinge
ACUL276	1	Double Door Secondary Lock
ACUL277/8	1	Double Door Primary Lock
ACUL279	1	Double Door Keep Kit
ACUL295	2	Low Threshold Bracket
ACUN3035	4 x W & 7 x H	Flipper Gasket
ACUN3512	18	Screw for ACUL250
ACUN3513	2 + H / 300	Screw for ETD447
ACVL059 / ACVL072	2 Pair	VL72 End Cap
ACVL061	W/300 + 2	VL72 Rivet
WCA106	18	Chevrons

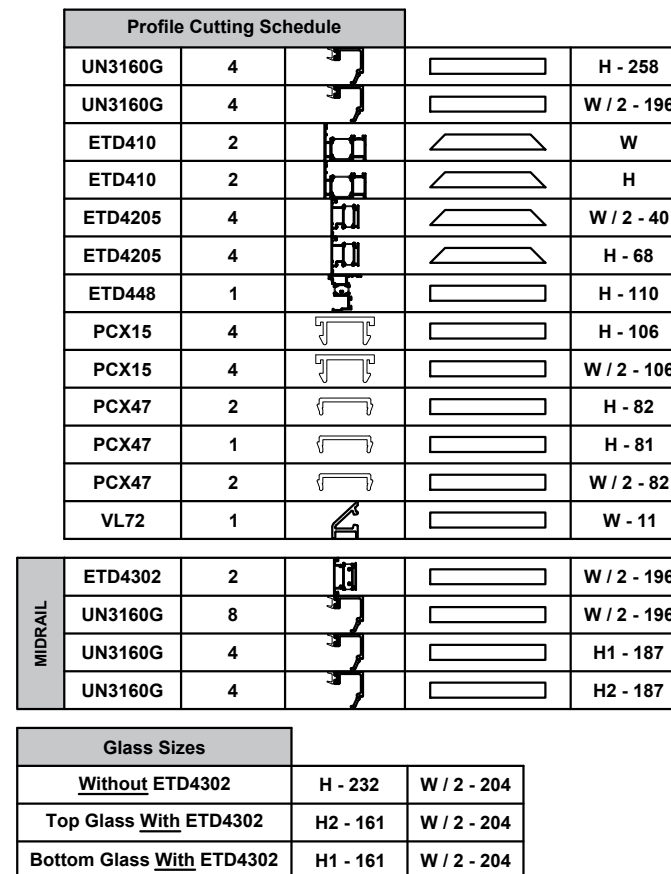
*See Page E72 for lock options.

****See B & E for handle options.**

Midrail Accessories		
ACET4302	2 x W / 2	ETD4302 Foam
ACUN3512	8	Screws
ACET841	4 x W	E Gasket
ACET4207	8	Bridge Packer



Do Not Scale From This Drawing



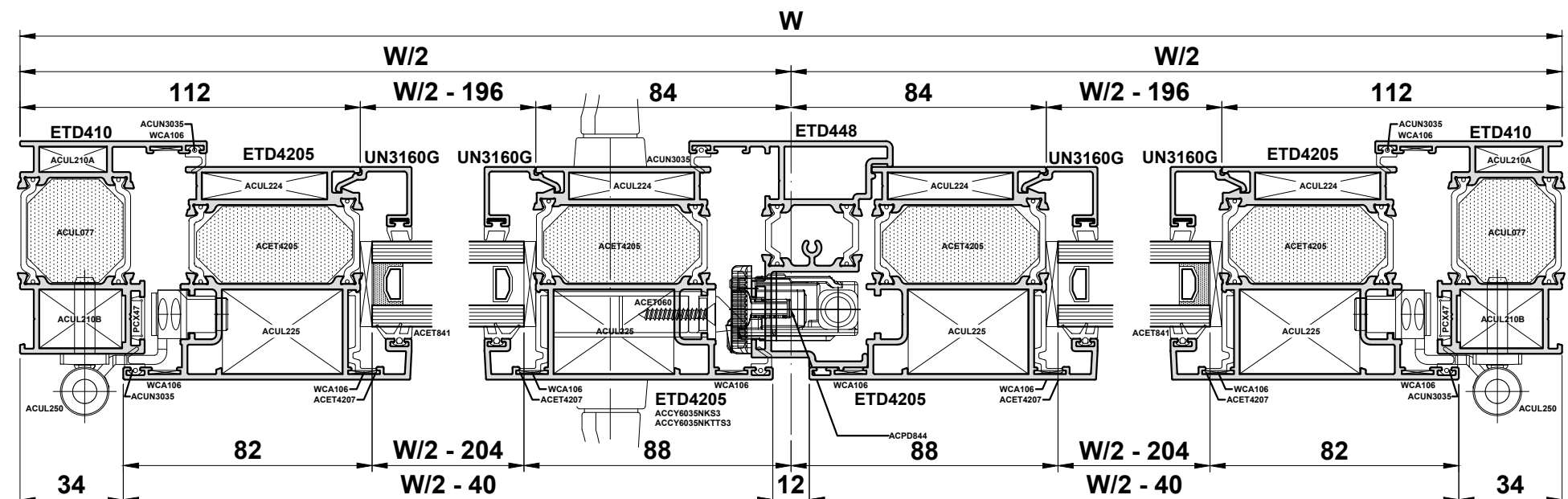
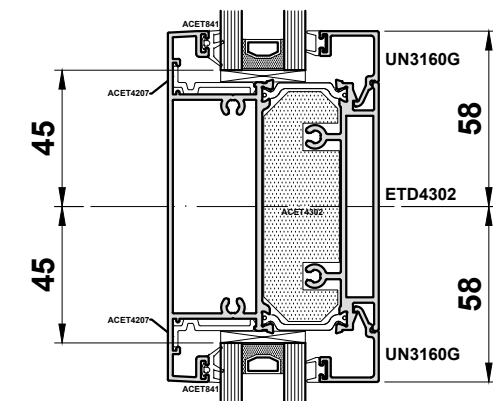
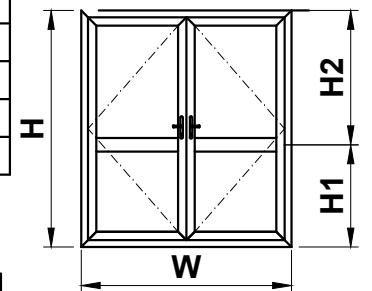
Accessories		
ACCY3560S3	1	Euro Cylinder
**	**	Handles
ACET060	16	Screw for Lock
ACET131	X	Drainage Cap
ACET4148	Pair	ETD448 End Cap
ACET4205	2 x W & 4 x H	Sash Foam
ACET4207	20	Bridge Packers
ACET475	4	Run Up Block
ACIM062	24	Screw for ACUL250
ACPD844	1	Shootbolt Adaptor
ACPD84..	1	10mm Dia Glavanised Rod
ACSM015	Pair	Escutcheon
ACUL077	2 x W & 2 x H	Outer Frame Foam
ACUL210A	4	Outer Frame Cleat
ACUL210B	4	Outer Frame Cleat
ACUL224	8	Sash Cleat
ACUL225	8	Sash Cleat
ACUL242	2	Finger Bolt Guide
ACUL250	6	Hinge
ACUL390	Pair	Finger Bolt Flat Keep
ACUN3035	4 x W & 6 x H	Flipper Gasket
ACUN3512	18	Screw for ACUL250
ACUN3513	2 + H / 300	Screw for ETD448

ACET841	2 x W & 4 x H	E Gasket
ACVL072	2 Pair	VL72 End Cap
ACVL061	W/300 + 2	VL72 Rivet
WCA106	20	Chevrons
*	1	Double Door Primary Lock

*See Page E72 for lock options.

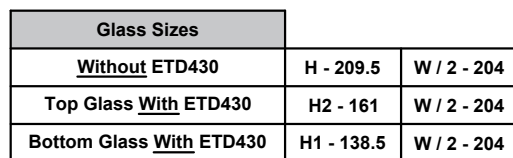
****See B & E for handle options.**

Midrail Accessories		
ACET4302	2 x W / 2	ETD4302 Foam
ACUN3512	8	Screws
ACET841	4 x W	E Gasket
ACET4207	8	Bridge Packer



Do Not Scale From This Drawing

Open Out Double Door Finger Bolt Low Rebate Threshold Quick-Glaze Bead



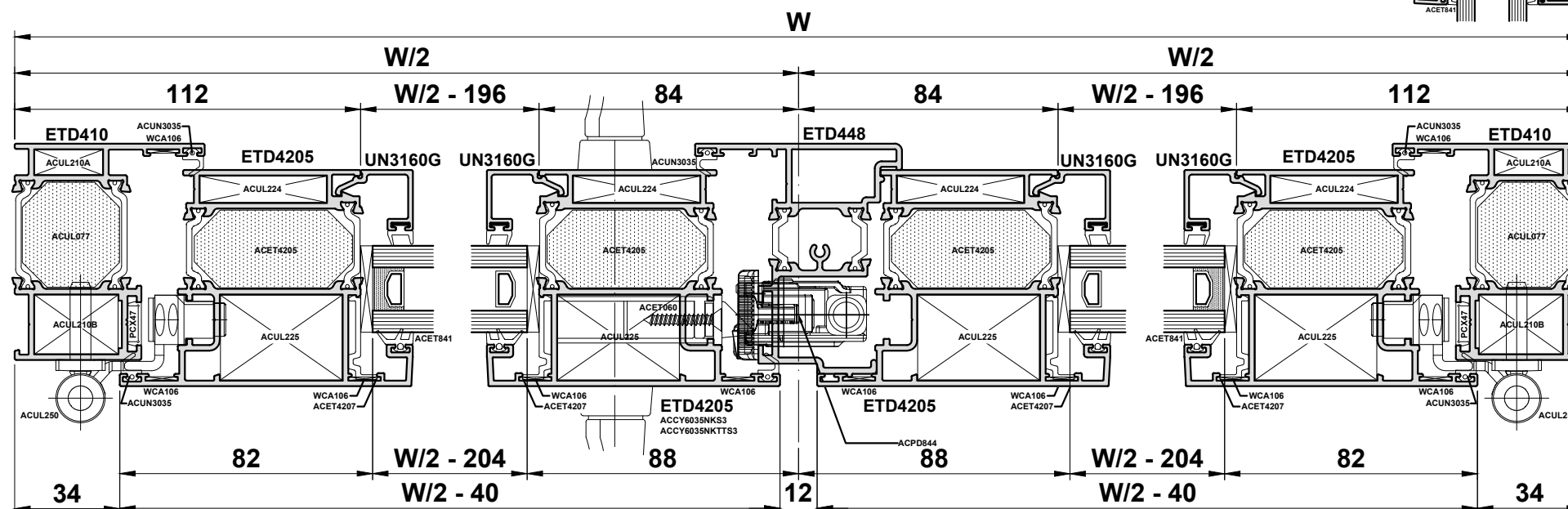
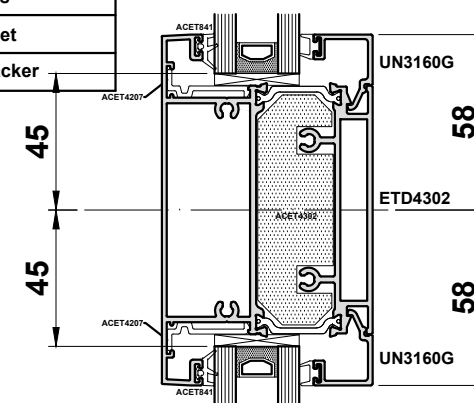
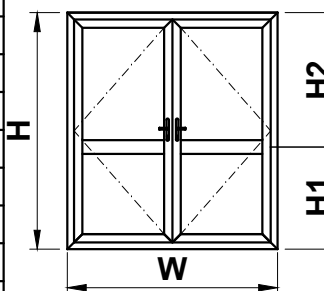
Accessories		
ACCY3560S3	1	Euro Cylinder
**	**	Handles
ACET060	4	Screw for ACET4190
ACET060	16	Screw for Lock
ACET099	W / 2 - 100 / 300	Fixing Screw for UL297
ACET4145	Pair	ETD448 End Cap
ACET4148	Pair	ETD448 End Cap at Head
ACET4190	Pair	ETD490 End Cap
ACET4192	Pair	ETD492 End Cap
ACET4197	2 Pairs	UL297 End Cap
ACET4205	4 x W / 2 & 4 x H	Sash Foam
ACET4207	20	Bridge Packers
ACET475	4	Run Up Block
ACET841	4 x W / 2 & 4 x H	E Gasket
ACIM062	24	Screw for ACUL250
ACPD844	1	Shootbolt Adaptor
ACPD84..	1	10mm Dia Glavanised Rod
ACSH038N	1 x W	Woolpile
ACSM015	Pair	Escutcheon
ACUL077	W & 2 x H	Outer Frame Foam
ACUL210A	2	Outer Frame Cleat
ACUL210B	2	Outer Frame Cleat
ACUL224	8	Sash Cleat
ACUL225	8	Sash Cleat

ACUL242	1	Finger Bolt Guide
ACUL250	6	Hinge
ACUL295	2	Low Threshold Bracket
ACUL390	Pair	Finger Bolt Flat Keep
ACUN3035	4 x W & 6 x H	Flipper Gasket
ACUN3512	18	Screw for ACUL250
ACUN3513	2 + H / 300	Screw for ETD448
ACVL072	2 Pair	VL72 End Cap
ACVL061	W/300 + 2	VL72 Rivet
WCA106	18	Chevrans
*	1	Double Door Primary Lock

*See Page E72 for lock options.

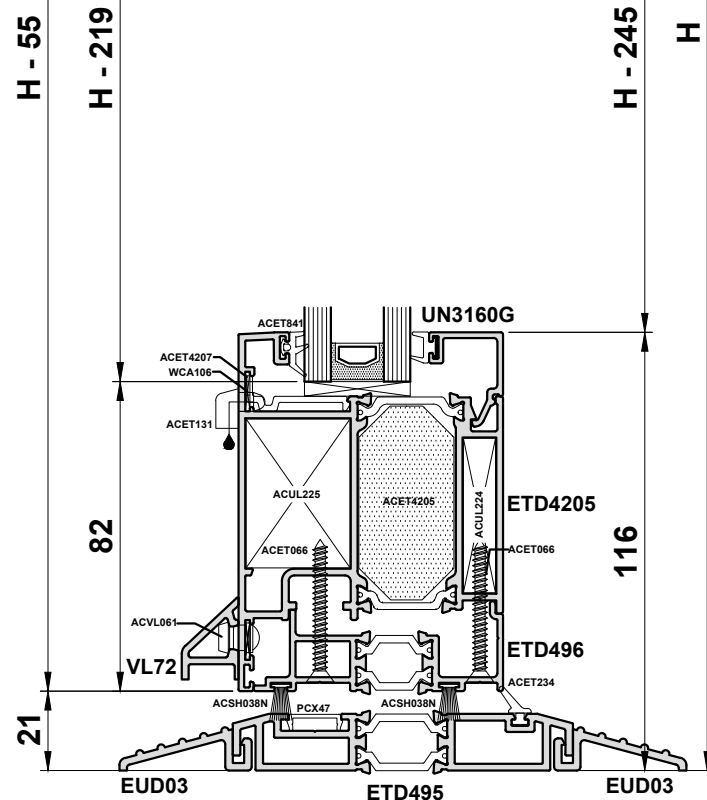
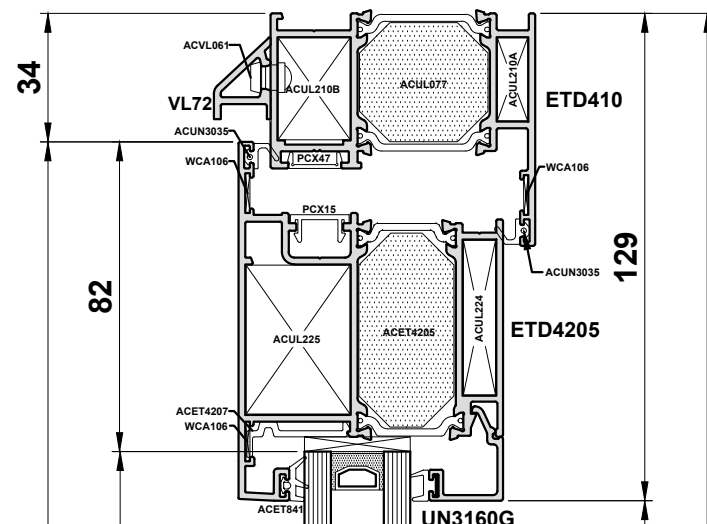
****See B & E for handle options.**

Midrail Accessories		
ACET4302	2 x W / 2	ETD4302 Foam
ACUN3512	8	Screws
ACET841	4 x W	E Gasket
ACET4207	8	Bridge Packer



Do Not Scale From This Drawing

Open Out Double Door Finger Bolt Low Ramp Threshold Quick-Glaze Bead



Profile Cutting Schedule				
UN3160G	4			H - 245
UN3160G	4			W / 2 - 196
ETD410	1			W
ETD410	2			H - 15
ETD4205	4			W / 2 - 40
ETD4205	4			H - 55
ETD448	1			H - 81
ETD495	1			W
ETD496	2			W / 2 - 88
EUD03	2			W
PCX15	2			H - 53.5
PCX15	4			W / 2 - 106
PCX47	2			H - 55
PCX47	1			H - 81
PCX47	2			W / 2 - 82
VL72	1			W - 11
VL72	2			W / 2 - 53

MIDRAIL	Glass Sizes			
	ETD4302	2		W / 2 - 196
	UN3160G	8		W / 2 - 196
	UN3160G	4		H1 - 174
	UN3160G	4		H2 - 187

Glass Sizes		
Without ETD4302	H - 219	W / 2 - 204
Top Glass With ETD4302	H2 - 161	W / 2 - 204
Bottom Glass With ETD4302	H1 - 148	W / 2 - 204

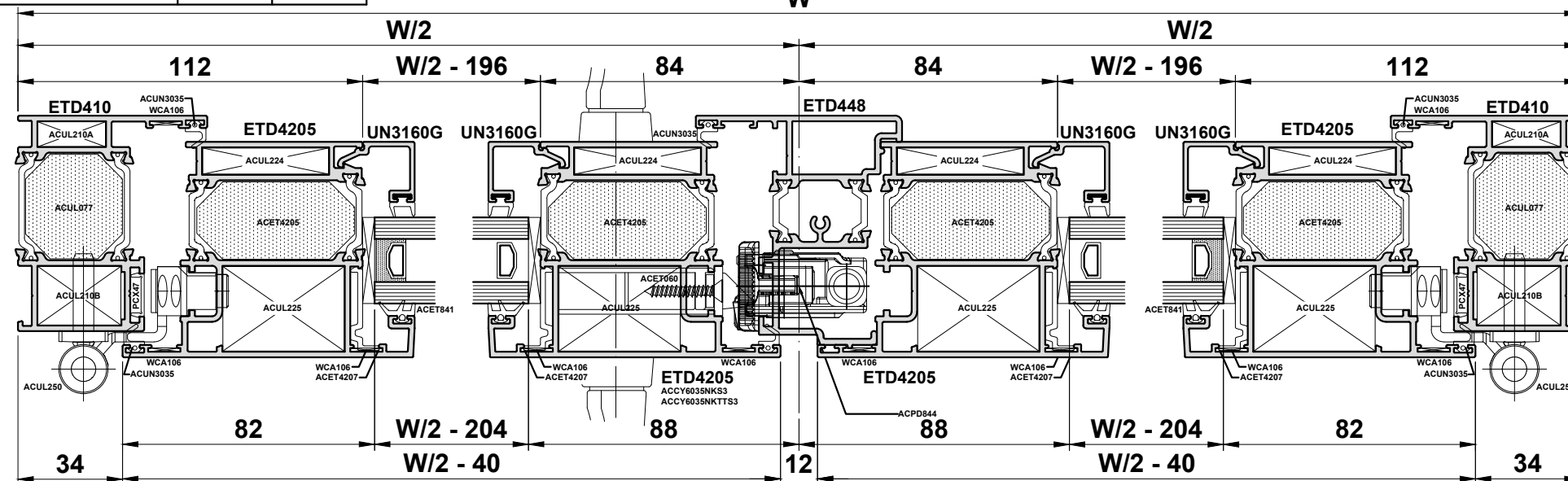
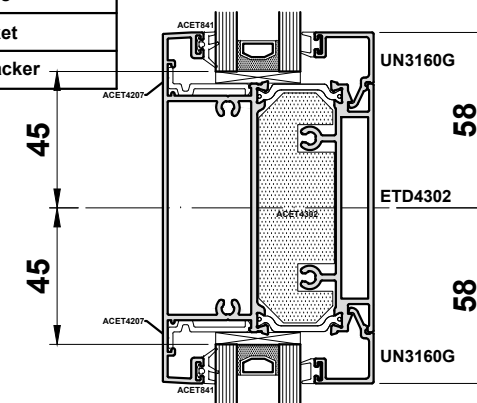
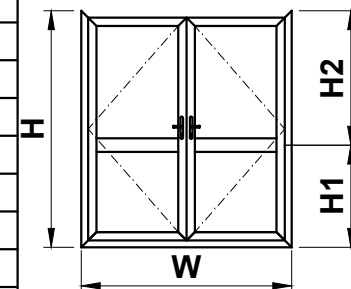
Accessories		
ACCY3560S3	1	Euro Cylinder
**	**	Handles
ACET060	4	Fixing Screw for ACET4195
ACET060	16	Screw for Lock
ACET066	2 x W - 100 / 300	Fixing Screw for ETD496
ACET234	1 x W	Flipper Gasket
ACET4190	Pair	ETD490 End Cap
ACET4143	Kit	ETD448/ETD496 End Cap
ACET4148	Pair	ETD448 End Cap at Head
ACET4195	Pair	ETD495 End Cap
ACET4196	Pair	ETD496 End Cap
ACET4205	4 x W / 2 & 4 x H	Sash Foam
ACET4207	20	Bridge Packers
ACET475	4	Run Up Block
ACET841	4 x W / 2 & 4 x H	E Gasket
ACIM062	24	Screw for ACUL250
ACPD844	1	Shootbolt Adaptor
ACPD84..	1	10mm Dia Glavanised Rod
ACSH038N	2 x W	Woolpile
ACSM015	Pair	Escutcheon
ACUL077	W & 2 x H	Outer Frame Foam
ACUL210A	2	Outer Frame Cleat
ACUL210B	2	Outer Frame Cleat
ACUL224	8	Sash Cleat
ACUL225	8	Sash Cleat

ACUL242	1	Finger Bolt Guide
ACUL250	6	Hinge
ACUL295	2	Low Threshold Bracket
ACUL390	Pair	Finger Bolt Flat Keep
ACUN3035	4 x W & 6 x H	Flipper Gasket
ACUN3512	18	Screw for ACUL250
ACUN3513	2 + H / 300	Screw for ETD448
ACVL072	2 Pair	VL72 End Cap
ACVL061	W/300 + 2	VL72 Rivet
WCA106	18	Chevrons
*	1	Double Door Primary Lock

*See Page E72 for lock options.

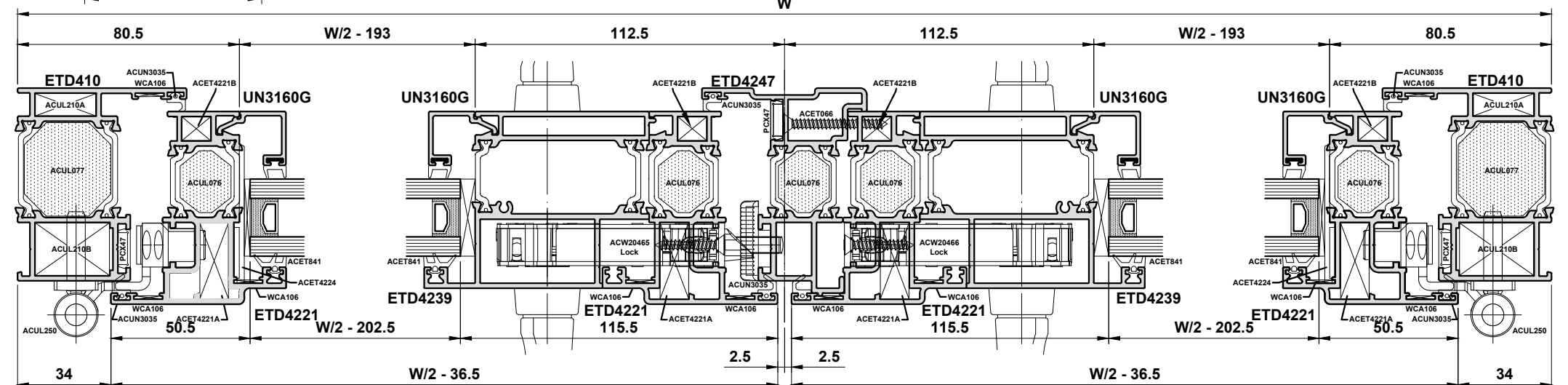
**See B & E for handle options.

Midrail Accessories		
ACET4302	2 x W / 2	ETD4302 Foam
ACUN3512	8	Screws
ACET841	4 x W	E Gasket
ACET4207	8	Bridge Packer



Do Not Scale From This Drawing

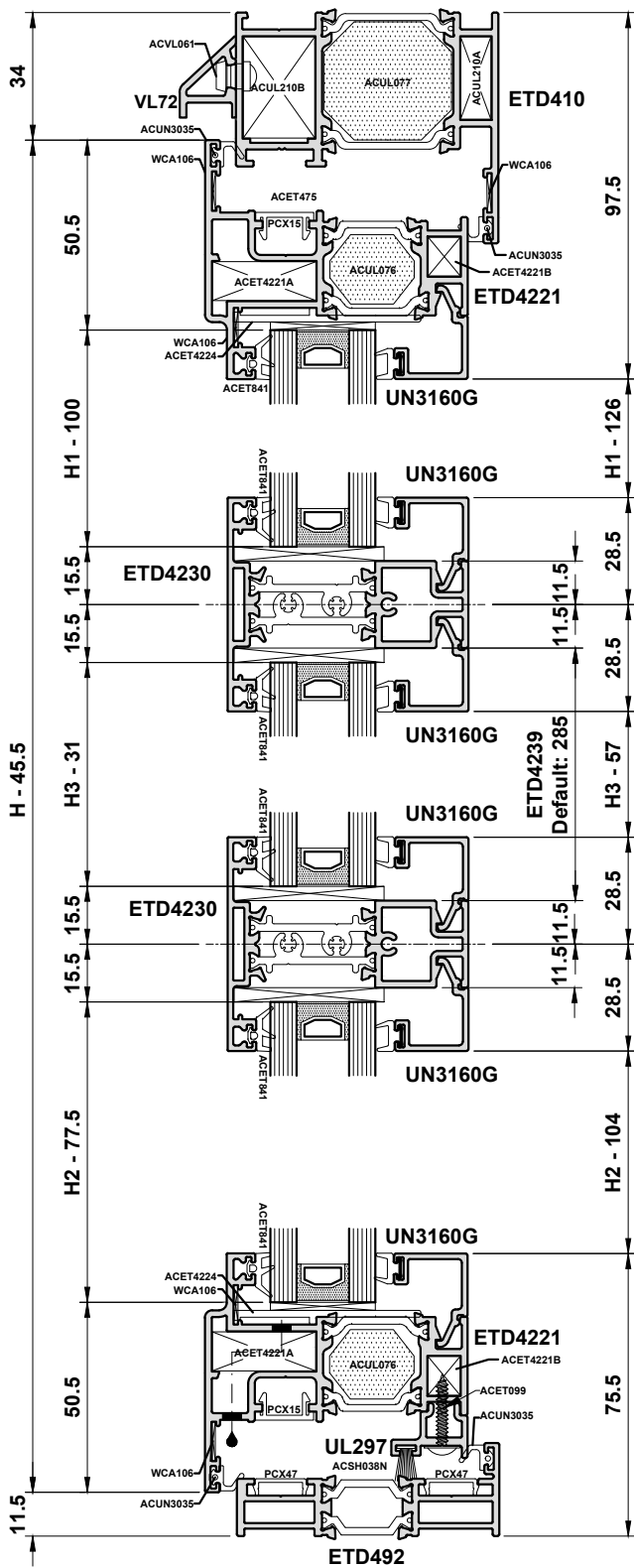
Open Out Heritage Double Door Full Frame Quick-Glaze Bead

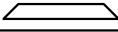
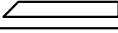
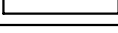
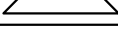
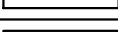
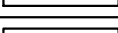
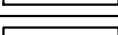
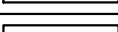
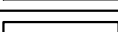
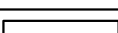
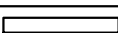
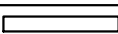
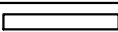
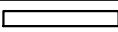
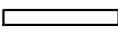
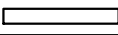
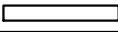
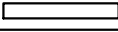


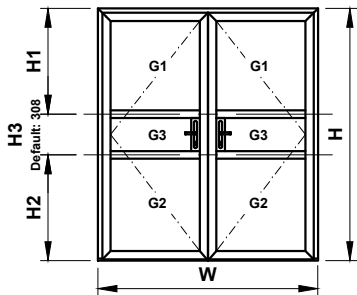
Glass Sizes		
G1	H1 - 100	W/2 - 137.5
G2	H2 - 100	W/2 - 137.5
G3	H3 - 31	W/2 - 202.5

Do Not Scale From This Drawing

Open Out Heritage Double Door Low Rebate Quick-Glaze Bead



Profile Cutting Schedule				
ETD410	1			W
ETD410	Pair			H - 15.5
ETD492	1			W
ETD4221	4			W/2 - 36.5
ETD4221	4			H - 45.5
ETD297	2			W/2 - 79.5
ETD4247	1			H - 81
UN3160G	8			W/2 - 129.5
UN3160G	4			W/2 - 193
UN3160G	4			H1 - 126
UN3160G	4			H2 - 104
UN3160G	4			H3 - 57
ETD4230	4			W/2 - 129.5
ETD4239	2			285
PCX15	4			H - 83.5
PCX15	4			W/2 - 75.5
PCX47	2			H - 56.5
PCX47	3			W - 82
PCX47	2			H - 81
VL72	1			W - 11

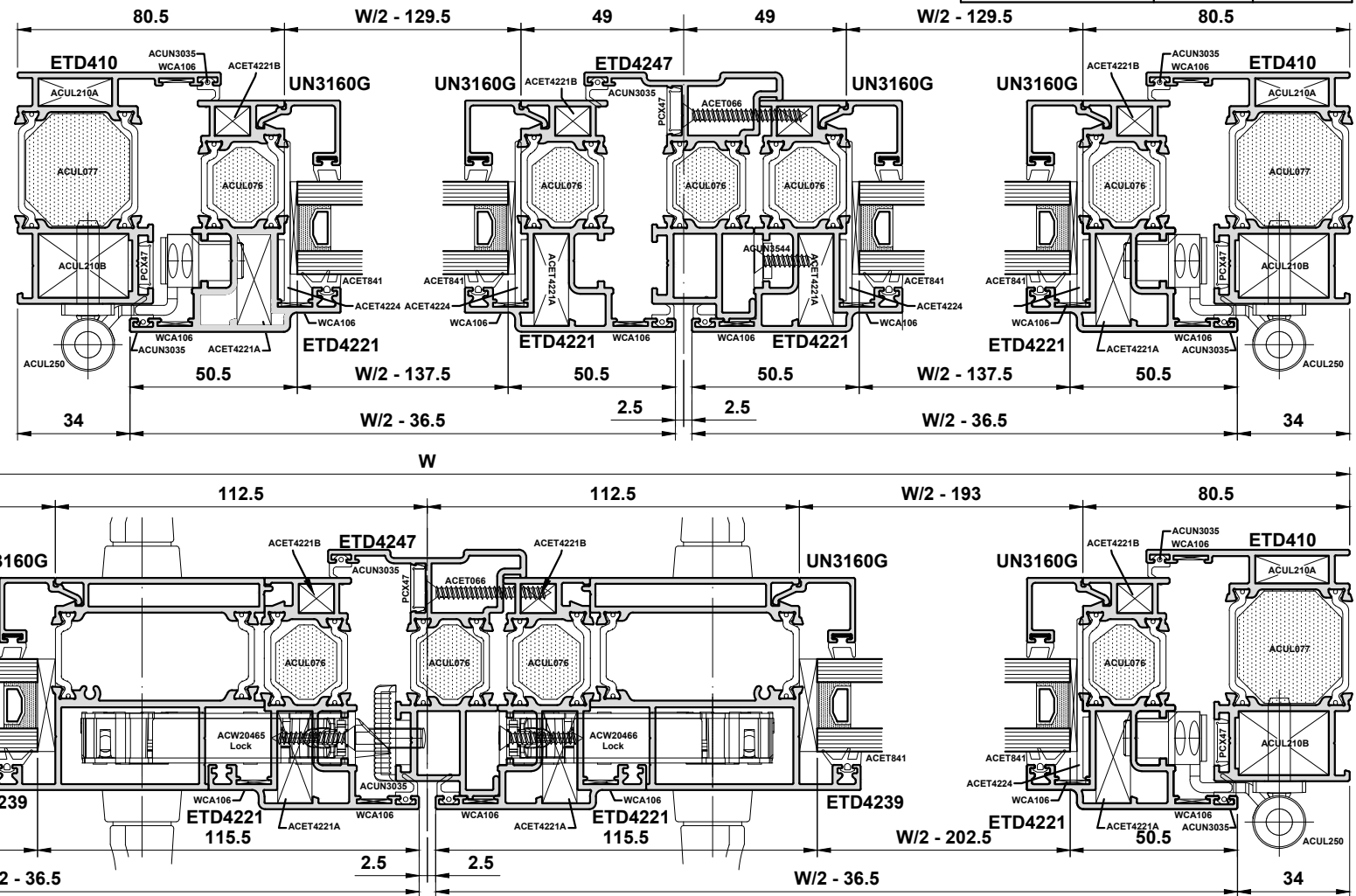


Accessories		
ACUL210A	2	Outerframe Cleat
ACUL210B	2	Outerframe Cleat
ACUL025	2	Anti-Twist Clip
ACUL295	2	Low Threshold Bracket
ACMX852	2	M6 x 16 Screw
ACET060	4	Screw For End Cap
ACET099	W - 100 / 300	Screw For UL297
ACET4192	Pair	ETD492 End Cap
ACET4197	2 Pair	UL297 End Cap
ACET4221A	8	Sash Cleat
ACET4221B	8	Sash Cleat
ACET4224	14	Bridge Packers
WCA106	10	Chevrons
ACUN3035	4W + 7H	Flipper Gasket

ACUL076	2W + 4H	Sash Foam
ACUL076	H - 110	Floating Mullion Foam
ACUL077	1W + 2H	Outerframe Foam
E Gasket	6W + 4H	Glazing Gasket
ACSH038N	W - 113	Woolpile
ACET062	8	Transom Screws
ACET066	12	Transom Screws
ACVL061	W / 300 + 2	Pop Rivets
ACVL059	Pair	Drip End Cap
ACUL250	6	Hinges
ACUN3512	18	Hinge Screw
ACUN3577	24	Hinge Screw
ACET4246	Pair	EDT4247 Cill End Cap
ACET4247	Pair	EDT4247 Head End Cap
ACET066	2 + H / 300	Screw for ETD4247

ACET131	4	Drainage Cap
ACW20465	1	Master Lock
ACW20466	1	Slave Lock
ACDV737	2	Bottom Shootbolt
ACDV738	2	Top Shootbolt
ACW20066 L/R	1	Center Keep
ACW20367	4	Keep
ACUL279	2	Shootbolt Keep
ACUN3544	32	Screw For Lock
Page E50	2	Euro Cylinder
Page E50	2	Handles

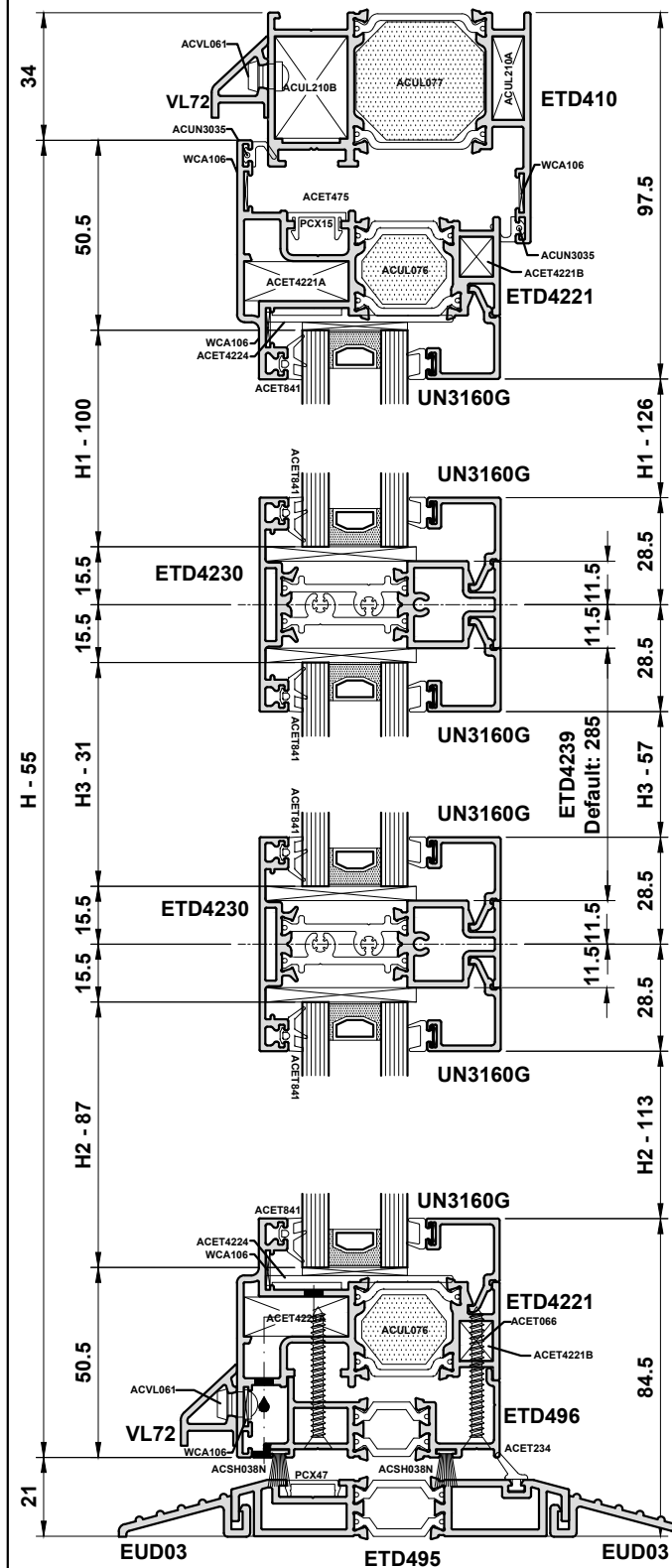
Glass Sizes		
G1	H1 - 100	W/2 - 137.5
G2	H2 - 77.5	W/2 - 137.5
G3	H3 - 31	W/2 - 202.5

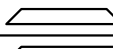
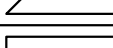
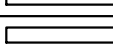
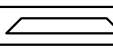
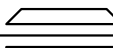
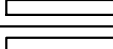
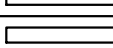
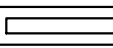
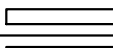
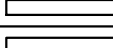
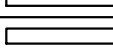
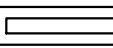
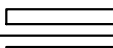
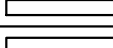
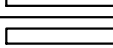
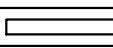
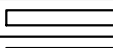
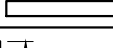


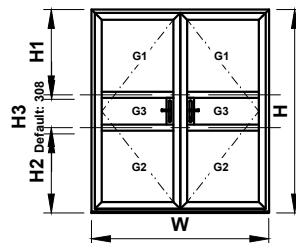
Do Not Scale From This Drawing

Alitherm 400 Stepped Door

Open Out Heritage Double Door Low Ramp Quick-Glaze Bead



Profile Cutting Schedule				
ETD410	1			W
ETD410	Pair			H - 15
ETD495	1			W
EUD03	2			W
ETD4221	4			W/2 - 36.5
ETD4221	4			H - 55
ETD496	2			W/2 - 84.5
ETD4247	1			H - 81
UN3160G	8			W/2 - 129.5
UN3160G	4			W/2 - 193
UN3160G	4			H1 - 126
UN3160G	4			H2 - 113
UN3160G	4			H3 - 57
ETD4230	4			W/2 - 129.5
ETD4239	2			285
PCX15	4			H - 84
PCX15	4			W/2 - 75.5
PCX47	2			H - 57
PCX47	2			W - 82
PCX47	2			H - 81
VL72	2			W/2 - 49.5
VL72	1			W - 11

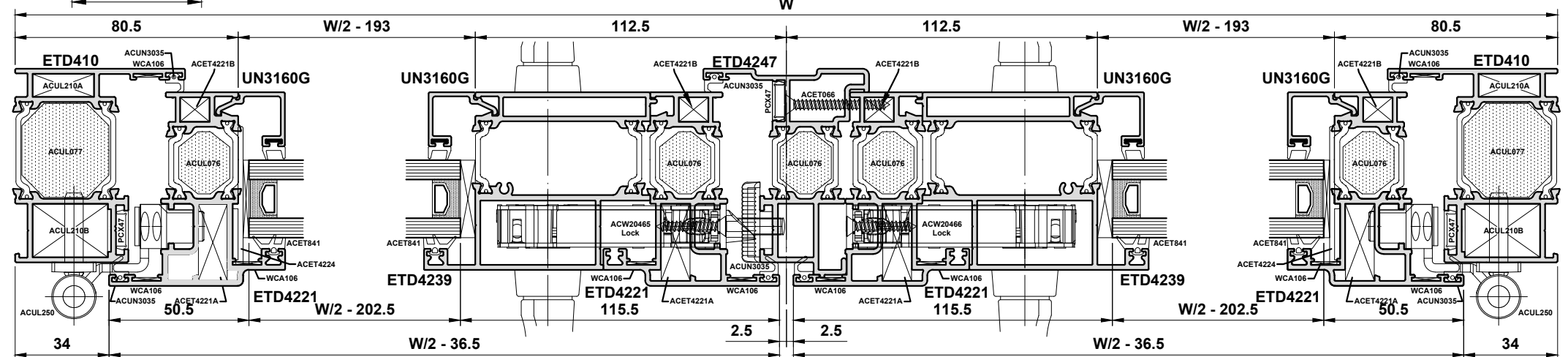
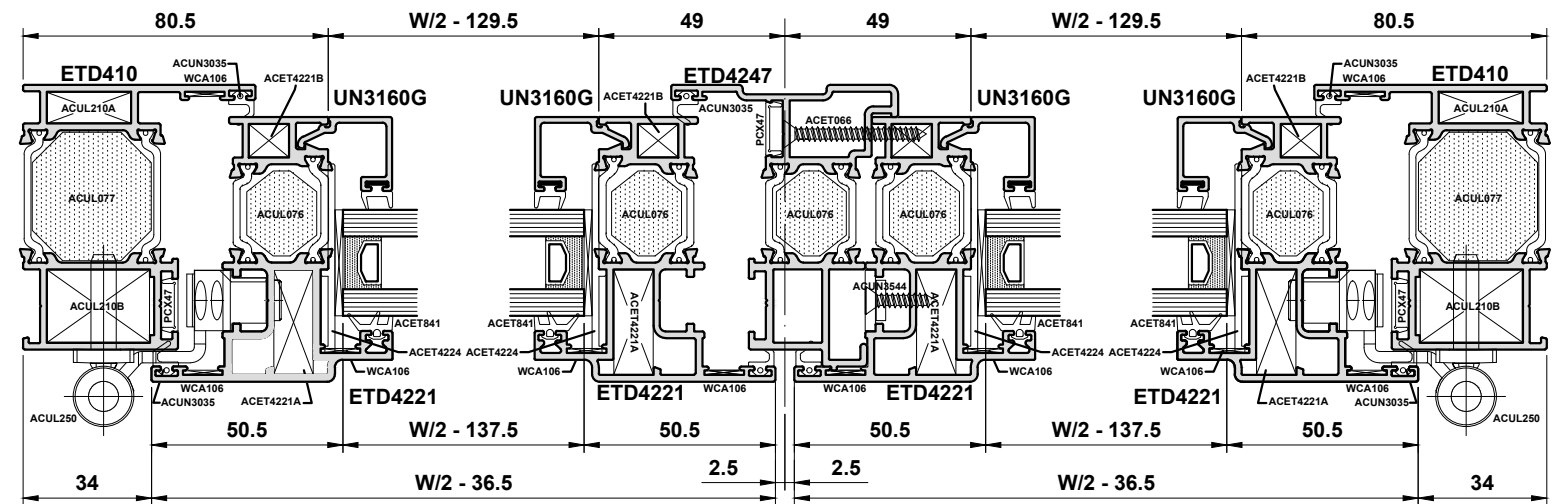


Accessories		
ACUL210A	2	Outerframe Cleat
ACUL210B	2	Outerframe Cleat
ACUL295	2	Low Threshold Brackets
ACMX852	2	M6 x 16 Screw
ACET060	4	Screw For End Cap
ACET4196	2 Pair	ETD496 End Cap
ACET066	2x W-100 / 300	Fixing Screw for ETD496
ACET4195	Pair	ETD495 End Cap
ACET4221A	8	Sash Cleat
ACET4221B	8	Sash Cleat
ACET4224	14	Bridge Packers
WCA106	10	Chevrans
ACUN3035	4W + 7H	Flipper Gasket
ACUL076	2W + 4H	Sash Foam

ACUL076	H - 81	Floating Mullion Foam
ACUL077	1W + 2H	Outerframe Foam
E Gasket	6W + 4H	Glazing Gasket
ACSH038N	2x W - 113	Woolpile
ACET062	8	Transom Screws
ACET066	12	Transom Screws
ACVL061	2x W / 300 + 2	Pop Rivets
ACVL059	3 Pair	Drip End Cap
ACUL250	6	Hinges
ACUN3512	18	Hinge Screw
ACUN3577	24	Hinge Screw
ACET4242	Pair	EDT4247 Cill End Cap
ACET4247	Pair	EDT4247 Head End Cap
ACET066	2 + H / 300	Screw for ETD4247
ACET131	4	Drainage Cap

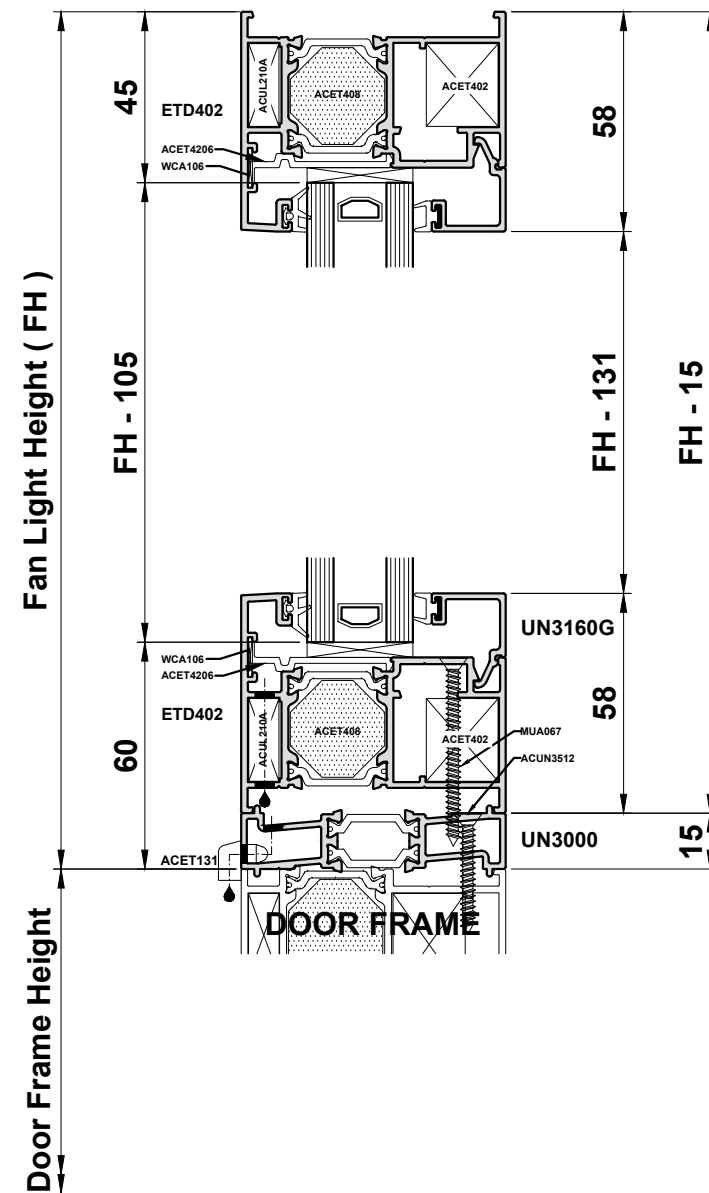
ACW20465	1	Master Lock
ACW20466	1	Slave Lock
ACDV737	2	Bottom Shootbolt
ACDV738	2	Top Shootbolt
ACW20066 L/R	1	Center Keep
ACW20367	4	Keep
ACUL279	2	Shootbolt Keep
ACUN3544	32	Screw For Lock
Page E50	2	Euro Cylinder
Page E50	2	Handles

Glass Sizes		
G1	H1 - 100	W/2 - 137.5
G2	H2 - 87	W/2 - 137.5
G3	H3 - 31	W/2 - 202.5



Do Not Scale From This Drawing

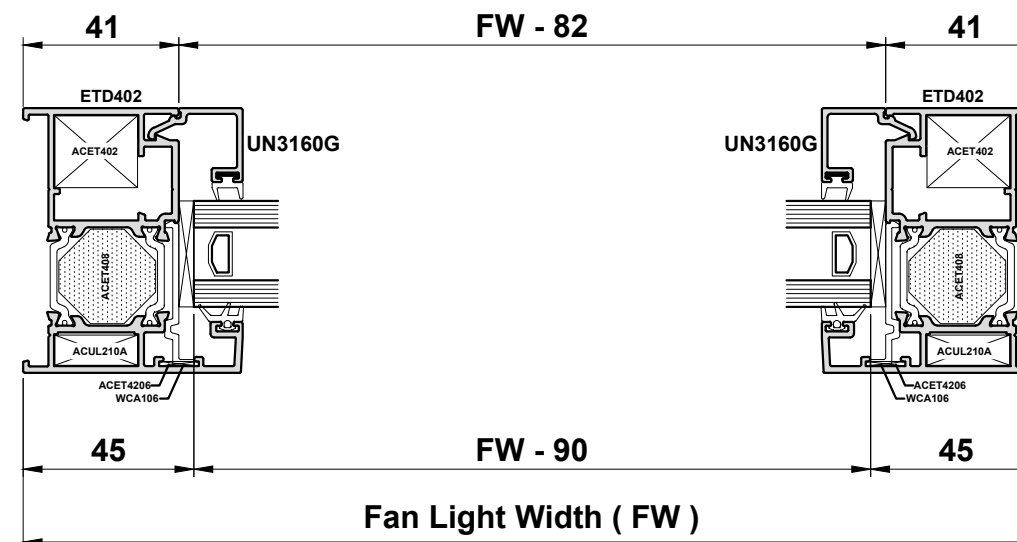
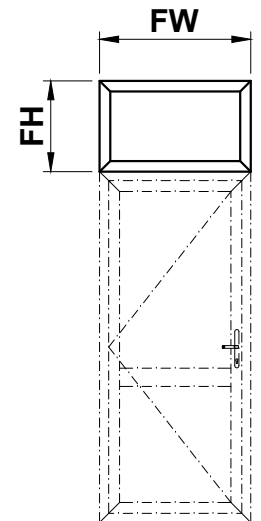
Fan Light Quick-Glaze Bead



Profile Cutting Schedule				
UN3000	1			FW
UN3160G	4			FH - 131
UN3160G	4			FW - 82
ETD402	2			FW
ETD402	2			FH - 15

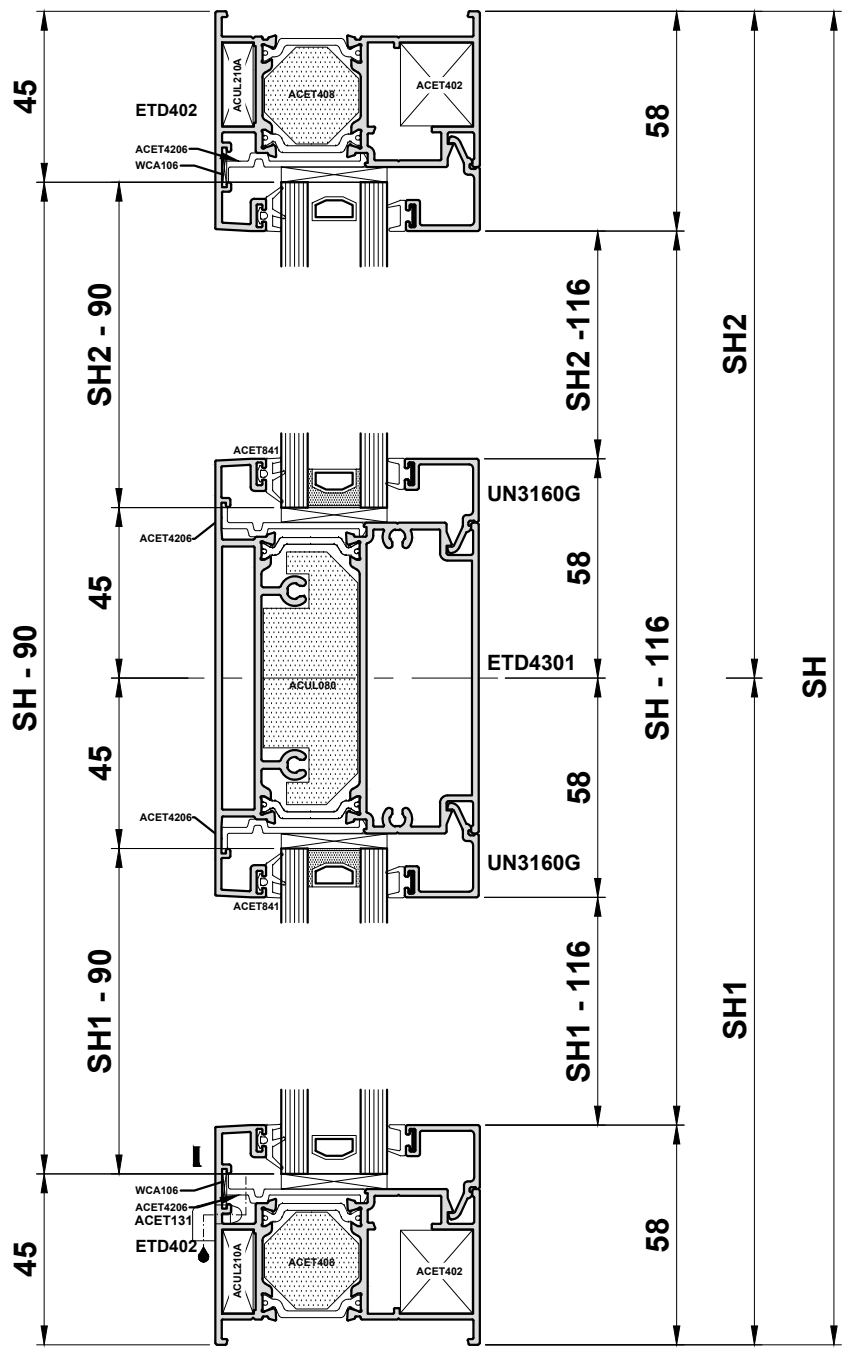
Accessories		
ACET402	4	Frame Cleat
ACUL210A	4	Frame Cleat
ACET4206	4	Corner Chevron
ACET4207	8	Bridge Packers
ACET131	2	Drainage Cap
ACET408	2 X FW + 2 X FH	Outer Frame Foam
ACET841	2 X FW + 2 X FH	E Gasket

Glass Sizes		
	FH - 131	FW - 82



Do Not Scale From This Drawing

Side Light Quick-Glaze Bead



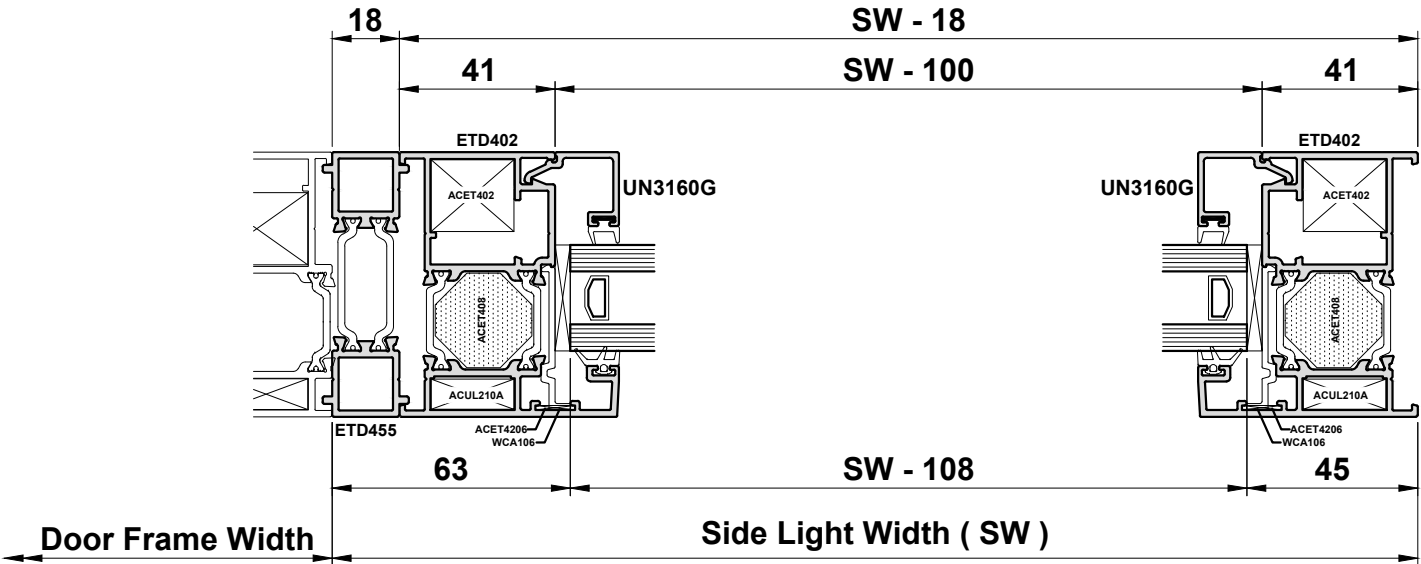
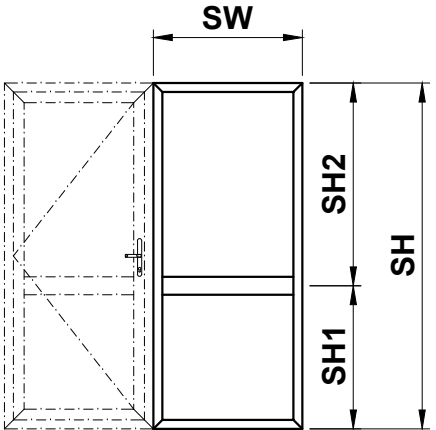
Profile Cutting Schedule				
UN3160G	2			SH - 116
UN3160G	2			SW - 100
ETD402	2			SW - 18
ETD402	2			SH

MIDRAIL	ETD4301	1			SW - 100
	UN3160G	2			SW - 100
	UN3160G	2			SH - 90
	UN3160G	2			SH - 90

Accessories		
ACET402	4	Frame Cleat
ACUL210A	4	Frame Cleat
ACET4206	4	Corner Chevron
ACET4207	8	Bridge Packers
ACET131	2	Drainage Cap
ACET408	2 X SW + 2 X SH	Outer Frame Foam
ACET841	2 X SW + 2 X SH	E Gasket

Midrail Accessories		
ACUL080	7 X SW	ETD4301 Foam
ACUN3512	8	Screws
ACET841	2 X SW	E Gasket
ACET4207	4	Bridge Packer

Glass Sizes		
Without ETD4301	SH - 90	SW - 100
Top Glass With ETD4301	SH2 - 90	SW - 100
Bottom Glass With ETD4301	SH1 - 90	SW - 100



Do Not Scale From This Drawing

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Do Not Scale From This Drawing