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## 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, ETC4179G and UN3160G, with integrated gasket, providing a fast and efficient glazing process. Non integrated gasket options are also available.

Tested to PAS24 without the need for hinge protectors or keep reinforcement, Alitherm 400 door offers exceptional security.

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

**Important Notes:**

1. Max leaf weight 100kg
2. Size limitations are based on current profiles using full frame

For advise 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

### 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. **Please be aware that the Quick - Glaze bead is only available in black, white and KL005.**

## 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: All Outer Frames.

Sash: All Sashes.

Mid-rail: All Mid-rails.

Meeting Stile: ETD446 & ETD448

#### Hardware:

Locking: ACUL272, ACUL273, ACUL280, ACUL281, ACUL282, ACUL383, ACUL360, ACUL361, ACUL263, ACUL374, ACUL375, ACUL377, ACUL378, ACUL380, ACUL381, ACUL382 & ACUL383.

Keep: ACUL390.

Hinges: All Hinges.

Handle: All Handles.

Cylinder: All Cylinders.

#### 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	1800
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 Shootbolts)**

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

**Profiles:**

Outer Frame: All Outer Frames.

Sash: All Sashes.

Mid-rail: All Mid-rails.

Meeting Stile: ETD445 & ETD447

**Hardware:**

Locking: ACUL276, ACUL277 & ACUL278.

Keep: ACUL279.

Hinges: All Hinges.

Handle: All Handles.

Cylinder: All Cylinders.

**Size Limitations And Performance Characteristics**

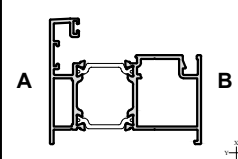
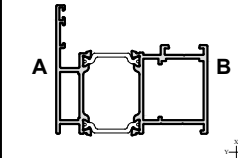
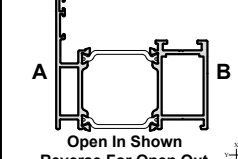
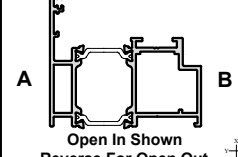
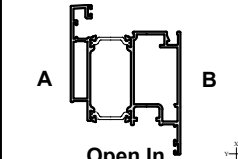
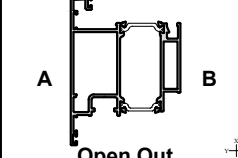
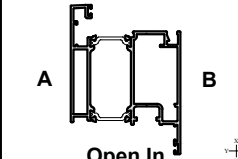
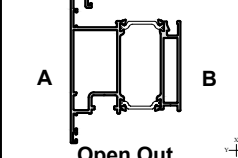
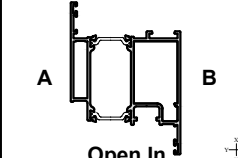
Door Type	Leaf Width (mm) - Maximum	Leaf Height (mm) - Maximum	Air Permeability Classification	Watertightness Classification	Resistance To Wind Classification	Exposure Category As Given In Table 1 Of BS6375-1:2009
Double Leaf Open In Full Frame	1100	2400	Class 4 Air	Class 3A Water	C3	1200
Double Leaf Open Out Full Frame	1100	2400	Class 3 Air	Class E 900 Water	C3	1200
Double Leaf Open In Low Rebate Threshold	NOT TESTED					
Double Leaf Open Out Low Rebate Threshold						

**can achieve higher wind with hinge protect. please contact technical**

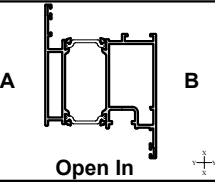
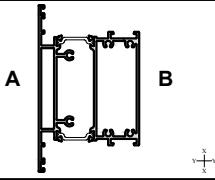
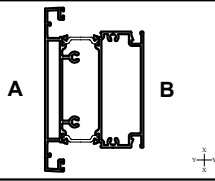
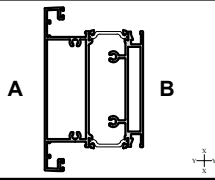
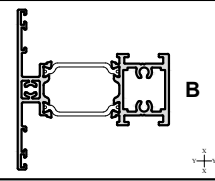
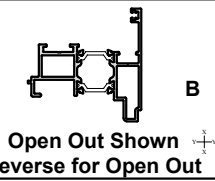
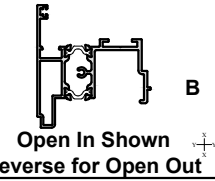
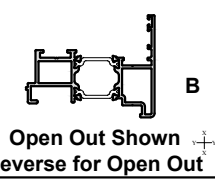
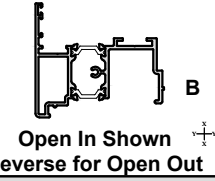
## Specification




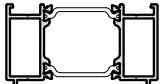







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<b>ETD410</b>		A18	404	114.2	36.73 — 9.77	12.14 — 5.04	6.5	1	✓	✓	✓	✓	✓	
<b>ETD412</b>		A18	359	150.7	34.19 ---- 8.63	14.07 ---- 5.81	6.5	1	✓	✓	✓	✓	✓	
<b>ETD4202</b>		A19	467	183.6	49.3 ---- 14.09	41.76 ---- 9.47	6.5	1	✓	✓	✓	✓	✓	
<b>ETD4203</b>		A20	465	182.6	47.29 ---- 11.88	40.65 ---- 9.20	6.5	1	✓	✓	✓	✓	✓	
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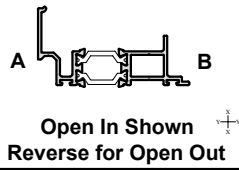
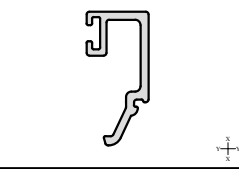
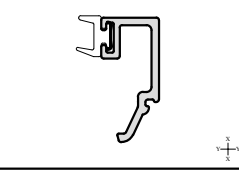
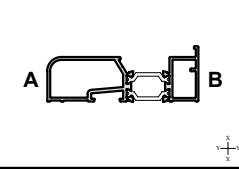
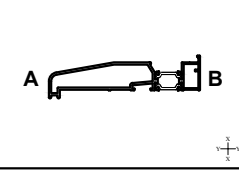
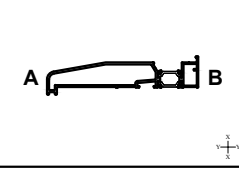
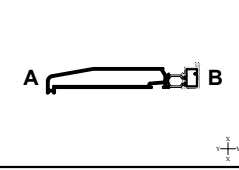
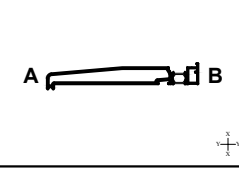
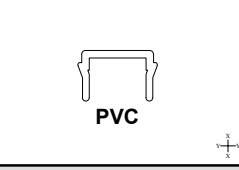
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<b>ETD4301</b>	 Open In	A31	512	218.7	61.58 — 15.24	100.49 — 17.33	6.5	1	✓	✓	✓	✓	✓	
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<b>ETD432</b>	 Open In	A35	414	124.5	41.48 — 10.78	11.37 — 3.07	6.5	1	✓	✓	✓	✓	✓	
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									A = Outside B = Inside		MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour M = Dual Colour			



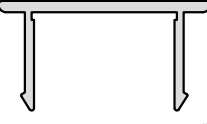
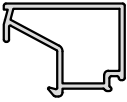


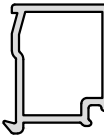
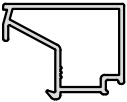
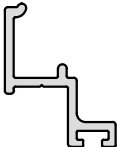
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<b>ETD490</b>		A24	335	64.7	44.19 — 8.28	1.45 — 1.56	6.5	1	✓	✓				
<b>ETD491</b>		A26	297	73	34.80 --- 7.07	1.57 --- 1.61	6.5	1	✓	✓				
<b>ETD492</b>		A24	282	41.2	18.63 — 5.05	0.98 — 1.05	6.5	1	✓	✓				
<b>ETD493</b>		A26	216	54.9	13.93 --- 4.18	1.12 --- 1.11	6.5	1	✓	✓				
<b>ETD495</b>		A25	295	78	33.27 — 7.36	1.06 — 1.29	6.5	1	✓	✓				
<b>ETD496</b>	 Open In Shown Reverse for Open Out	A25	282	26.2	10.64 — 3.07	0.92 — 1.07	6.5	1	✓	✓	✓	✓	✓	
<b>ETD497</b>		A27	265	108.5	33.16 --- 7.35	1.07 --- 1.32	6.5	1	✓	✓				
									A = Outside B = Inside		MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour M = Dual Colour			

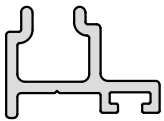
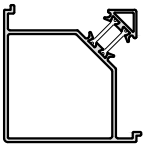
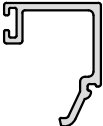
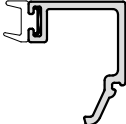

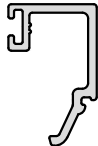


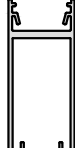
PROFILES : TECHNICAL INFORMATION

Number	Picture	Page	Perim. mm	Mec. mm	lx(cm4) wx(cm3)	ly(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M	
<b>ETD499</b>		A27	261	74.1	11.59 --- 3.22	1.64 --- 1.55	6.5	1	✓	✓	✓	✓	✓	
<b>ETC4179</b>		A38	104	29	- --- -	- --- -	6.5	1	✓	✓	✓	✓		
<b>ETC4179G</b>		A38	104	29	- --- -	- --- -	6.5	1	AVAILABLE IN: BL, WP & KL005					
<b>ETC451</b>		A28	271	180	32.44 --- 7.29	3.46 --- 2.79	6.5	1	✓	✓	✓	✓	✓	
<b>ETC452</b>		A28	414	382	122.46 --- 18.03	6.01 --- 3.34	6.5	1	✓	✓	✓	✓	✓	
<b>ETC457</b>		A28	444	412	163.27 --- 21.60	6.79 --- 3.73	6.5	1	✓	✓	✓	✓	✓	
<b>ETC458</b>		A29	524	492	313.62 --- 32.63	8.87 --- 4.79	6.5	1	✓	✓	✓	✓	✓	
<b>ETC479N</b>		A29	594	559	501.64 --- 44.04	9.72 --- 5.34	6.5	1	✓	✓	✓	✓	✓	
<b>DV60</b>		A23	21	---	- --- -	- --- -	6.5	1						
									A = Outside B = Inside		MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour M = Dual Colour			

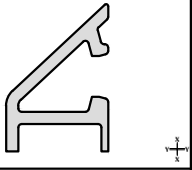
**PROFILES : TECHNICAL INFORMATION**

Number	Picture	Page	Perim. mm	Mec. mm	lx(cm4) wx(cm3)	ly(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
<b>EUD03</b>		A25	113	39	- ----	- ----	4	1	✓	✓			
<b>PCX47</b>	 PVC	A24	43.4	---	- ---	- ---	6.5	1					
<b>SR014</b>		A36	110.4	31.7	- ---	- ---	7	1	✓	✓	✓	✓	
<b>UL062</b>		A41	115	49	- ---	- ---	6.5	1	✓	✓	✓	✓	
<b>UL067</b>		A41	110	46	- ---	- ---	6.5	1	✓	✓	✓	✓	
<b>UL068</b>		A41	101	40	- ---	- ---	6.5	1	✓	✓	✓	✓	
<b>UL069</b>		A40	87	48	- ---	- ---	6.5	1	✓	✓	✓	✓	
<b>UL078</b>		A40	120	51.9	- ----	- ----	6.5	1	✓	✓	✓	✓	
<b>UL294</b>		A26	102	37	- ----	- ----	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	
UL297		A24	106	12	- -	- -	6.5	1	✓	✓	✓	✓		
UN3010		A35	369	226	41.4 10.7	40 11.6	6.5	1	✓	✓	✓	✓	✓	
UN3160		A37	120	39	- -	- -	6.5	1	✓	✓	✓	✓		
UN3160G		A37	120	39	- -	- -	6.5	1	AVAILABLE IN: BL, WP & KL005					
UN3162		A37	105	41	- -	- -	6.5	1	✓	✓	✓	✓		
UN3164		A38	112	33	- -	- -	6.5	1	✓	✓	✓	✓		
UN3166		A39	99.5	30.6	- -	- -	6.5	1	✓	✓	✓	✓		
UN3168		A39	99.5	30.6	- -	- -	6.5	1	✓	✓	✓	✓		
UN514		A36	282.7	157.1	35.14 8.74	8.86 5.47	6.5	1	✓	✓	✓	✓		
									A = Outside B = Inside		MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour M = Dual Colour			

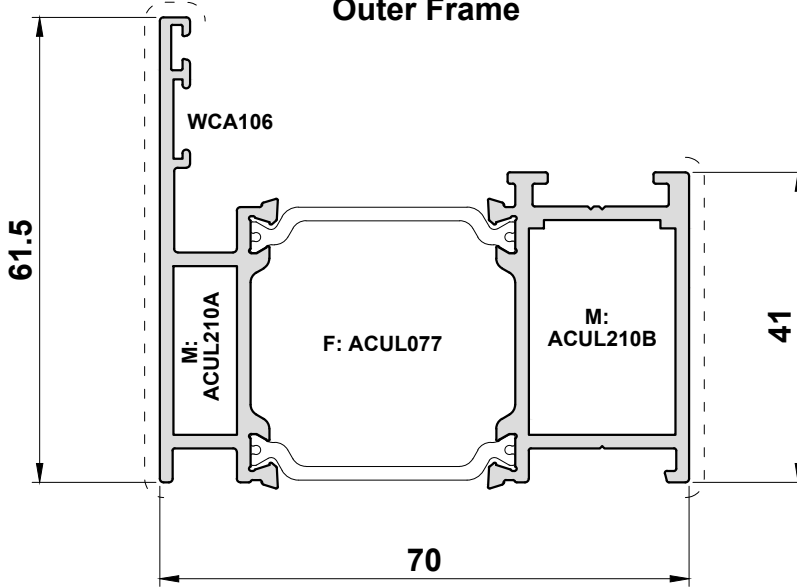
**PROFILES : TECHNICAL INFORMATION**

Number	Picture	Page	Perim. mm	Mec. mm	lx(cm4) wx(cm3)	ly(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
<b>VL72</b>		A24	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			

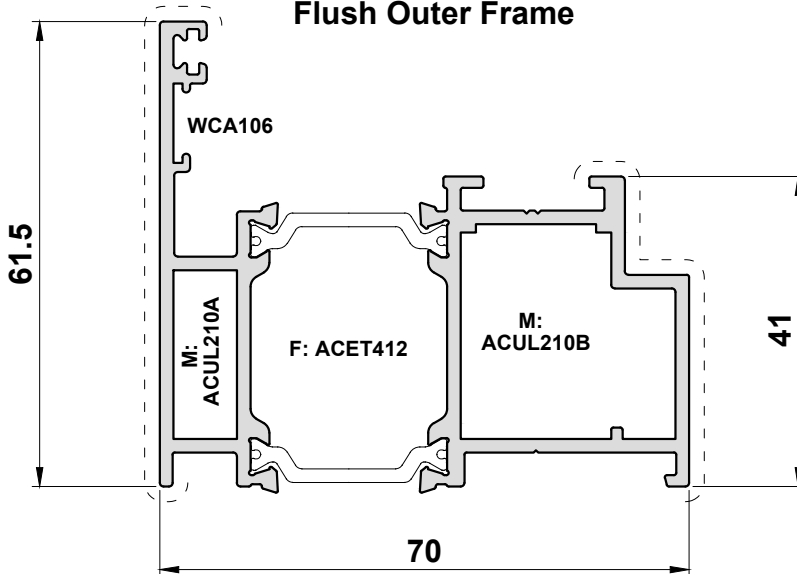
Primary Visible Side

Secondary Visible Side

**ETD410**  
Outer Frame



**ETD412**  
Flush Outer Frame

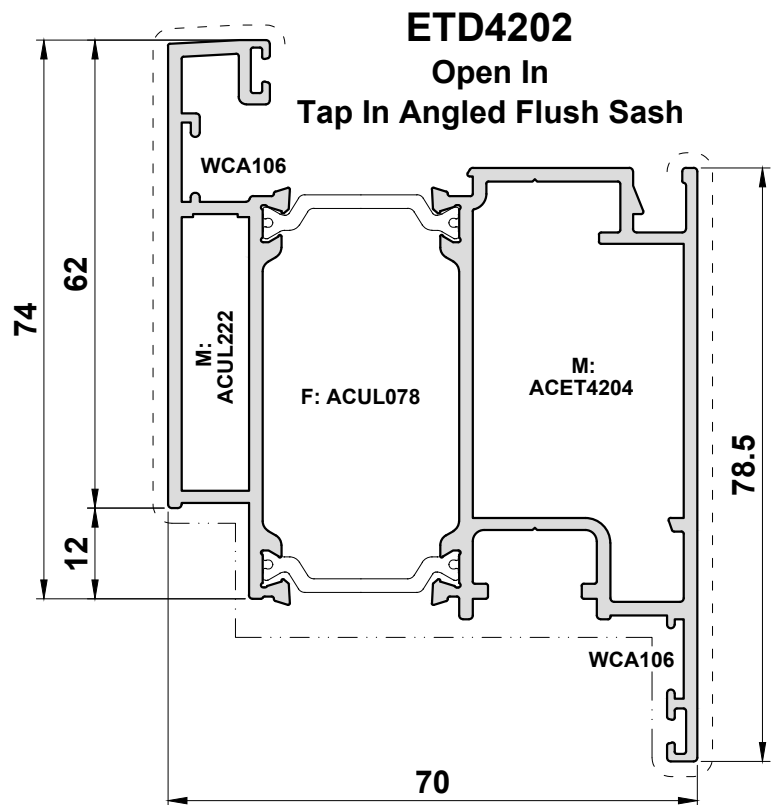
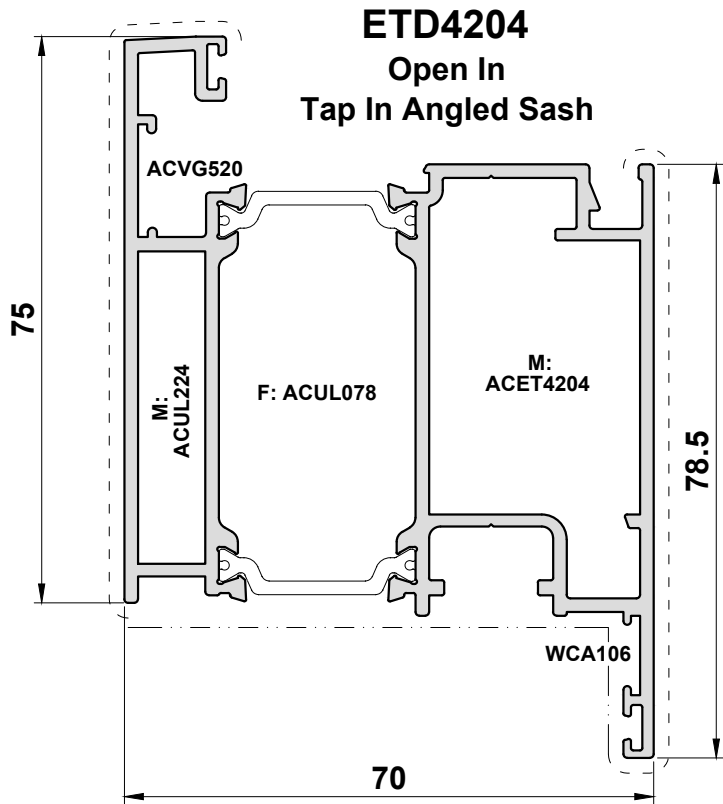


Scale 1:1



Primary Visible Side

Secondary Visible Side

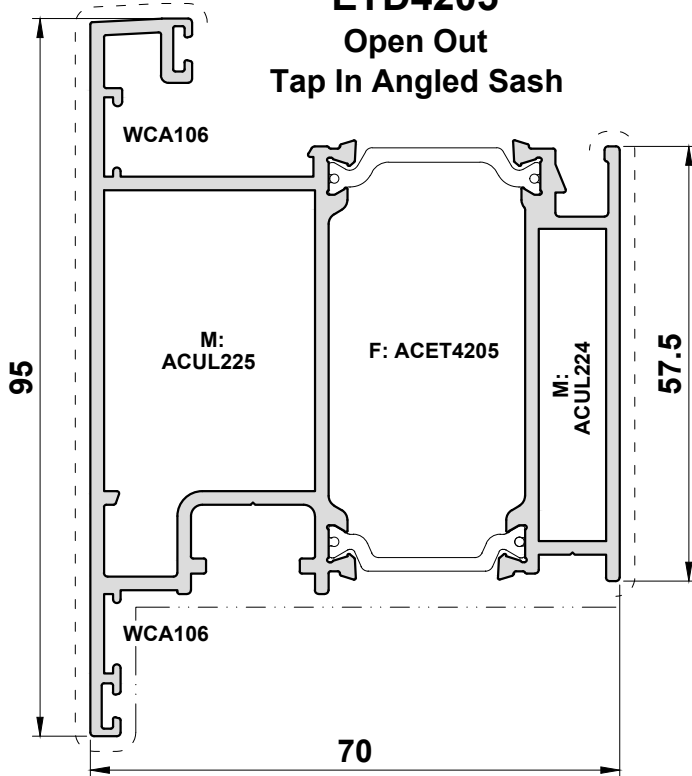


Scale 1:1

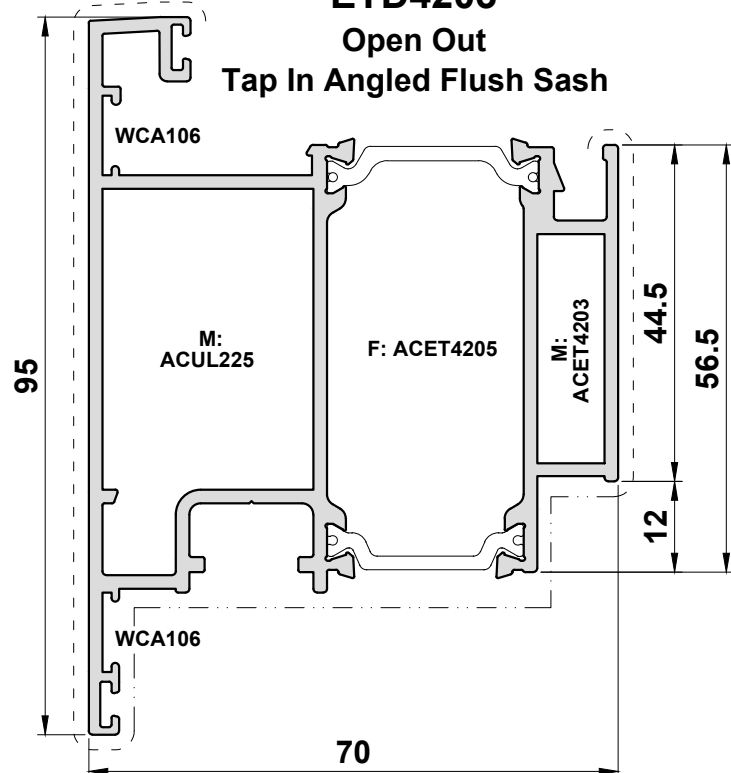
Primary Visible Side

Secondary Visible Side

**ETD4205**  
Open Out  
Tap In Angled Sash



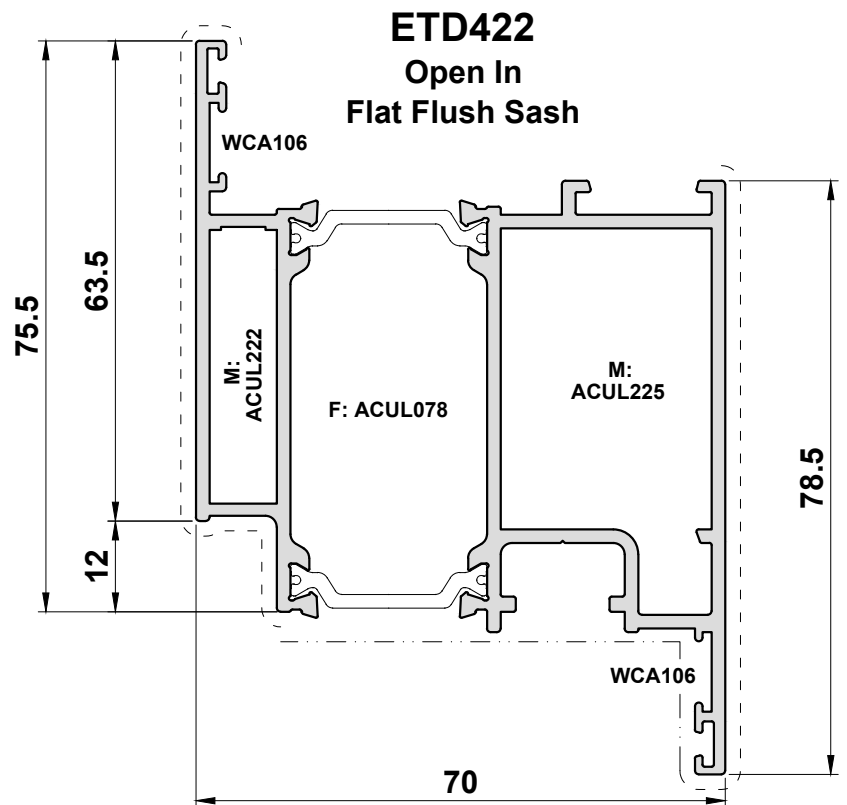
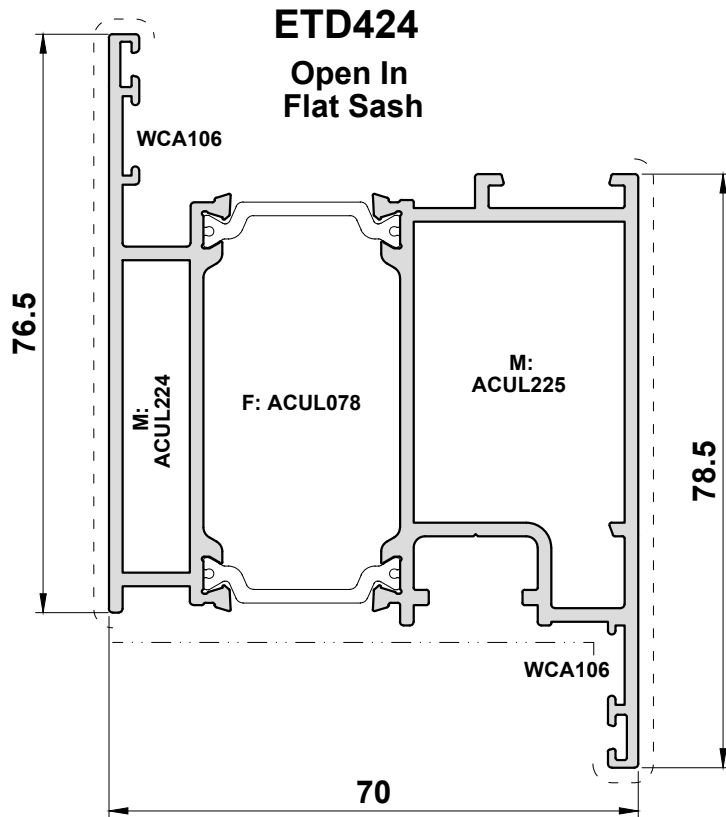
**ETD4203**  
Open Out  
Tap In Angled Flush Sash



Scale 1:1

Primary Visible Side

Secondary Visible Side

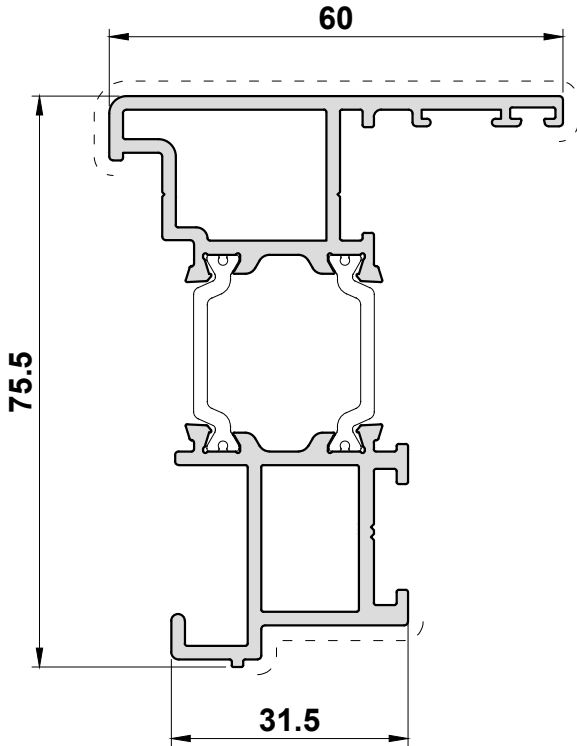





Scale 1:1

Primary Visible Side

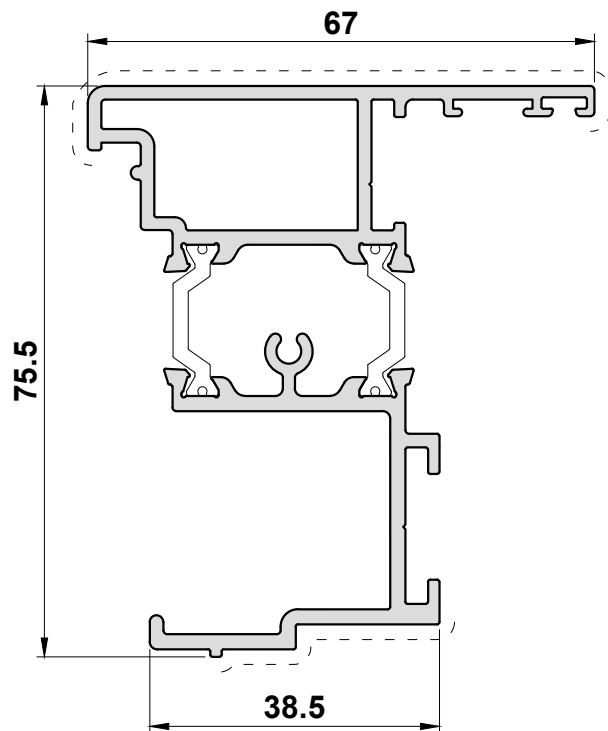
Secondary Visible Side




**ETD447**  
Double Door Meeting Stile



End Cap: ACET4142   
 ACET4146   
 ACET4147 

**ETD448**  
Double Door Meeting Stile

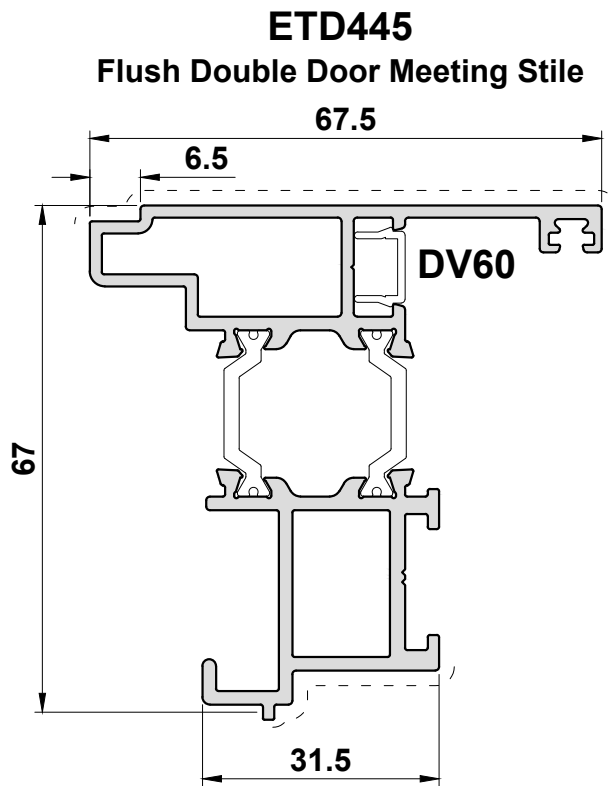





End Cap: ACET4143   
 ACET4145   
 ACET4148 

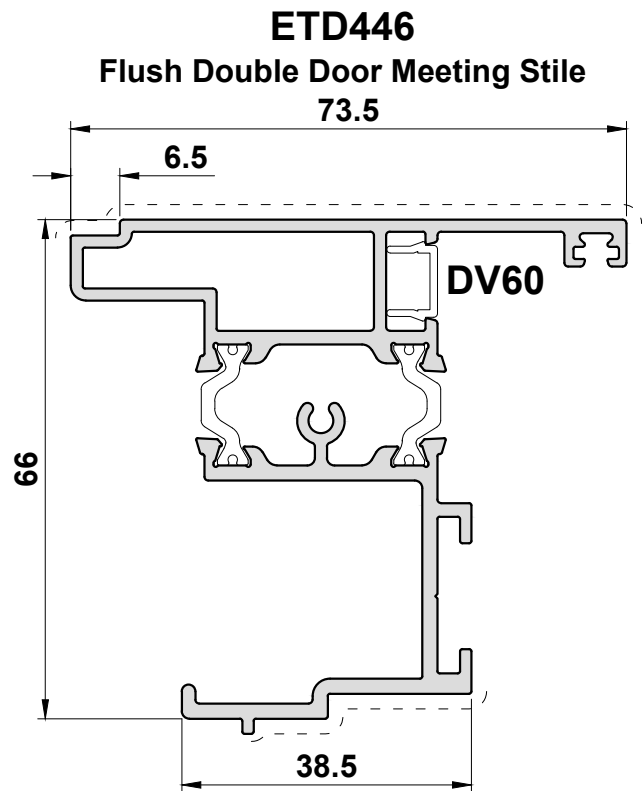
Scale 1:1




Primary Visible Side

Secondary Visible Side



End Cap: ACET4152   
 ACET4155   
 ACET4157 



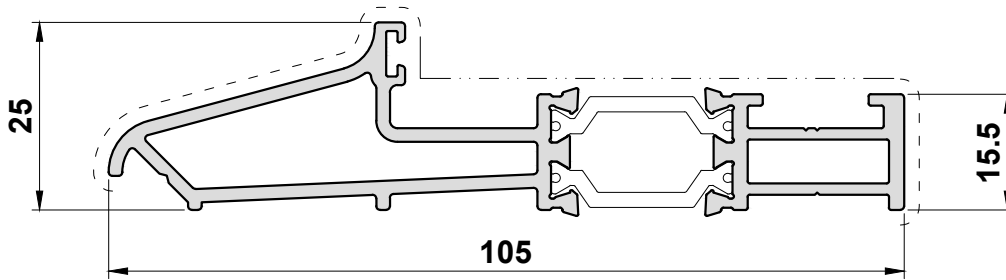
End Cap: ACET4153   
 ACET4156   
 ACET4158 

Scale 1:1

Primary Visible Side

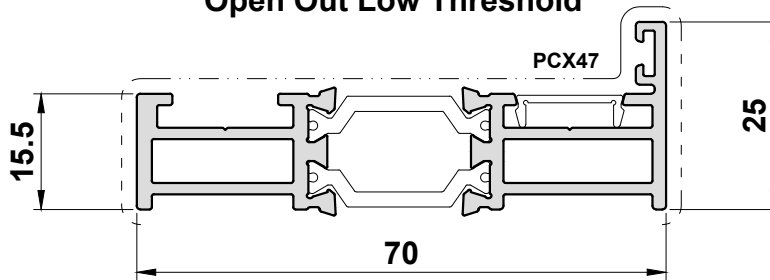
Secondary Visible Side

**ETD490**  
Open In Low Threshold



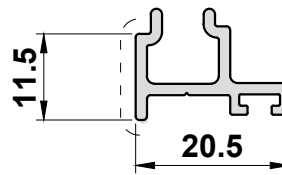
End Cap: ACET4190

**ETD492**  
Open Out Low Threshold



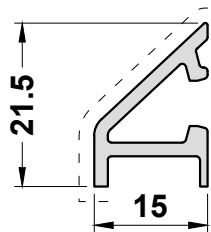
End Cap: ACET4192

**UL297**  
Low Threshold Adaptor



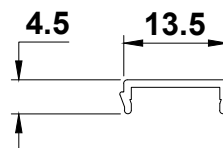
End Cap: ACET4197

**VL72**  
Weather Drip



End Cap: ACVL059  
Rivet: ACVL061

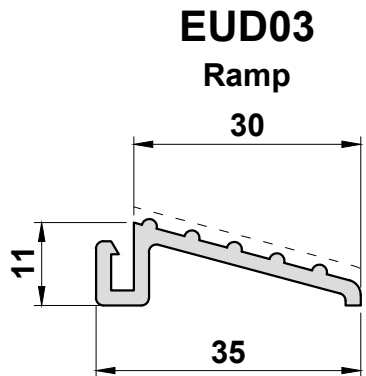
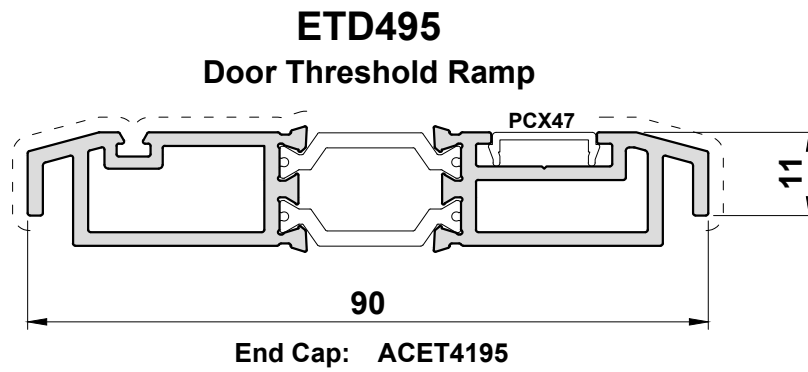
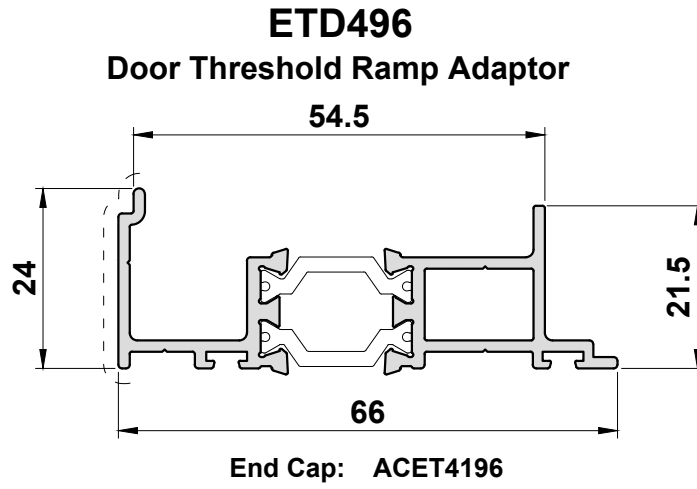
**PCX47**  
PVC Infill



Scale 1:1

Primary Visible Side

Secondary Visible Side



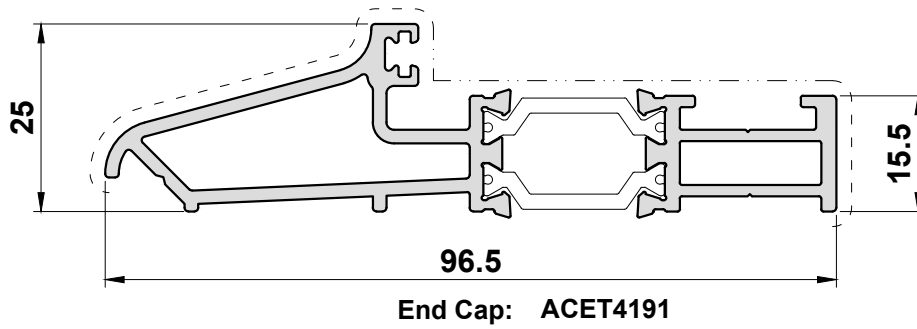
Scale 1:1

Primary Visible Side

Secondary Visible Side

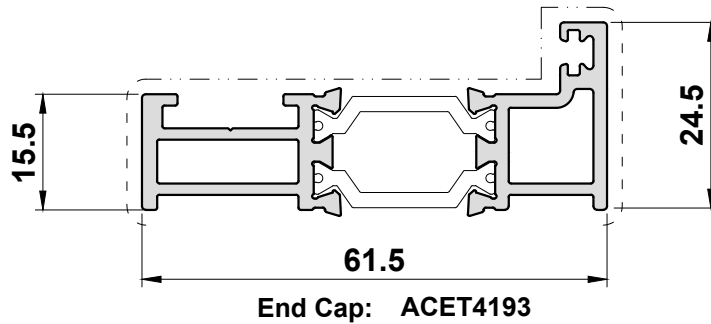
**ETD491**

**Flush Open In Low Threshold**



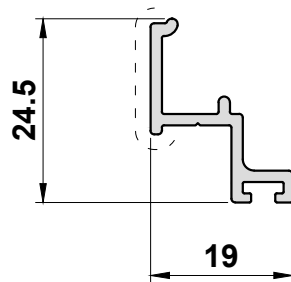
**ETD493**

**Flush Open Out Low Threshold**



**UL294**

**Low Threshold Adaptor**



End Cap: ACET4194

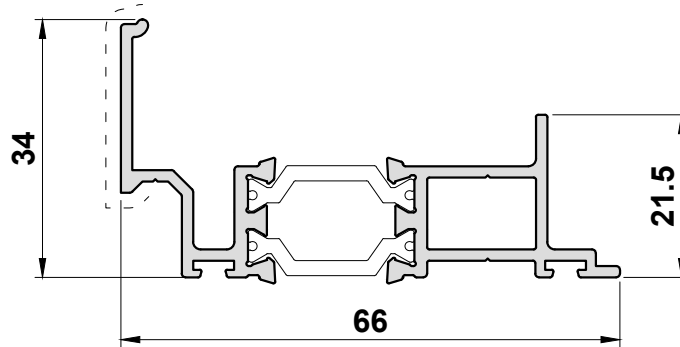
Scale 1:1



Primary Visible Side

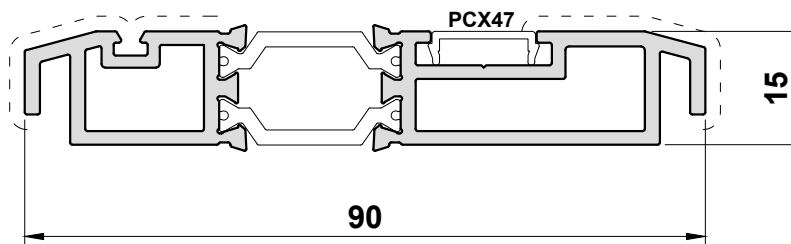
Secondary Visible Side

## ETD499 Flush Ramp Threshold Adaptor



End Cap: ACET4199

## ETD497 Flush Ramp Threshold



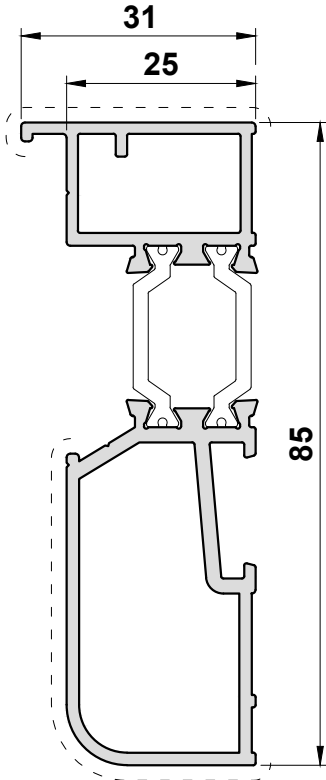
End Cap: ACET4198

Scale 1:1

Primary Visible Side

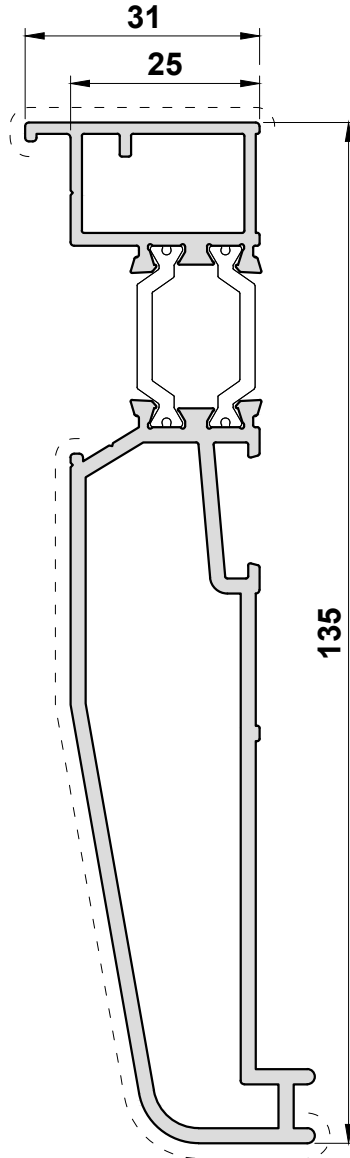
Secondary Visible Side

**ETC451**  
85mm Cill



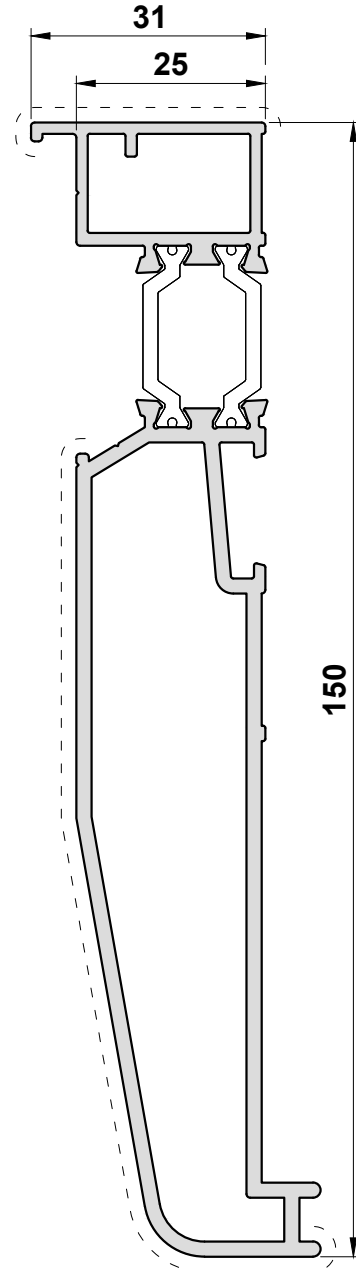
Cast End Cap: ACET451  
PVC End Cap: ACET178

**ETC452**  
135mm Cill



Cast End Cap: ACET452  
PVC End Cap: ACET152

**ETC457**  
150mm Cill

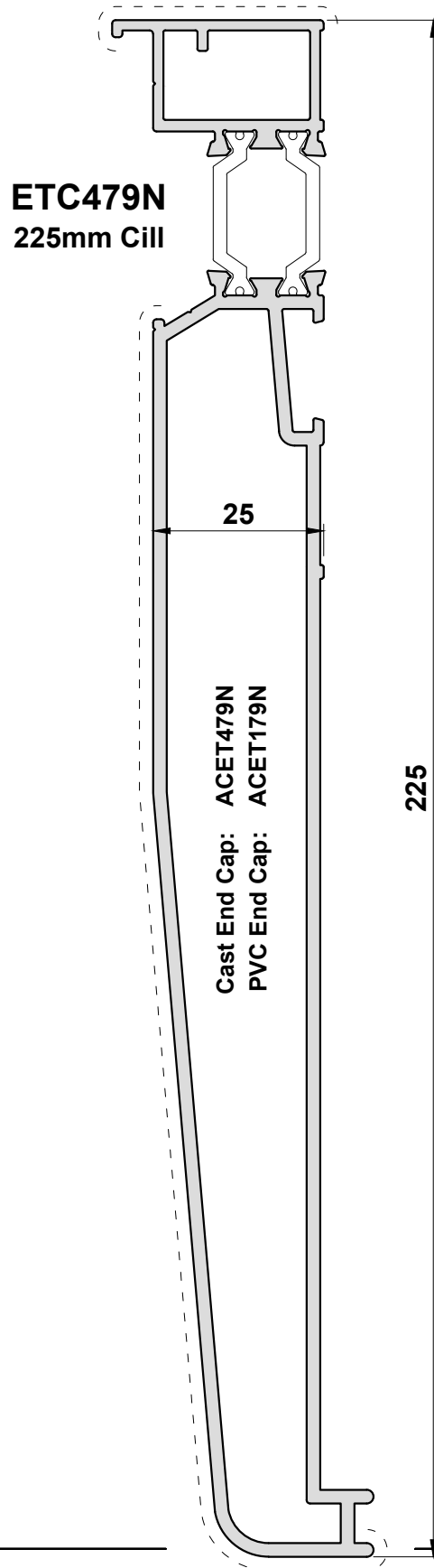
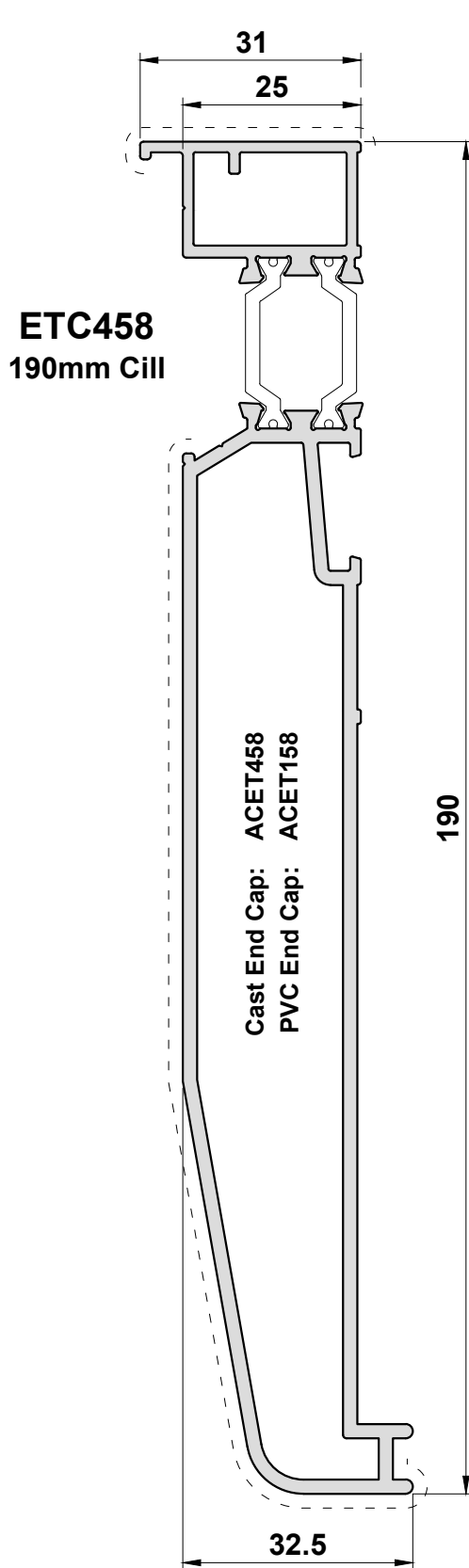


Cast End Cap: ACET457  
PVC End Cap: ACET157

Scale 1:1

Primary Visible Side

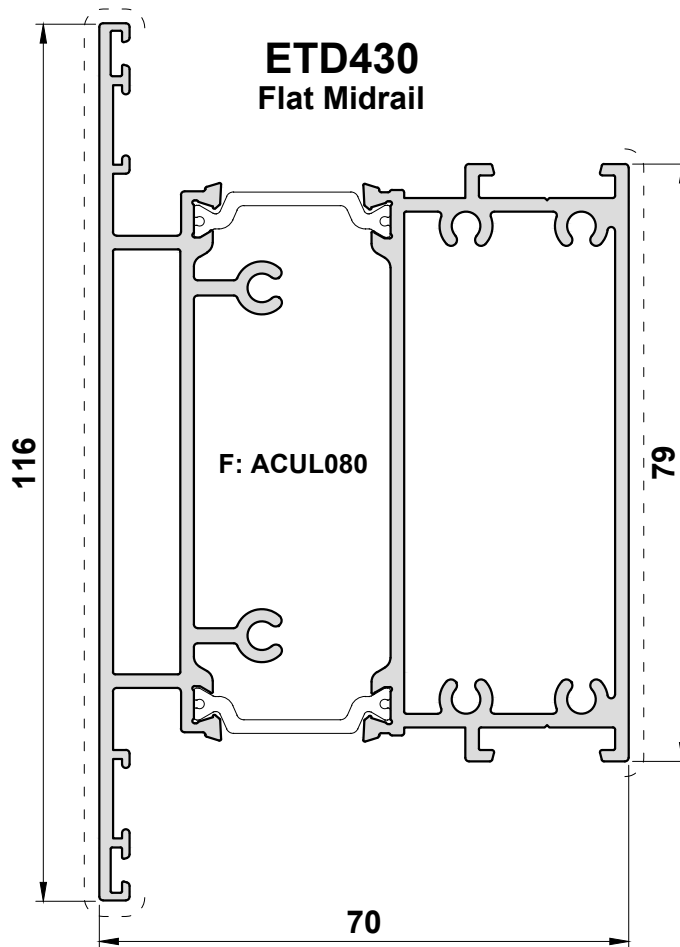
Secondary Visible Side



Scale 1:1

Primary Visible Side

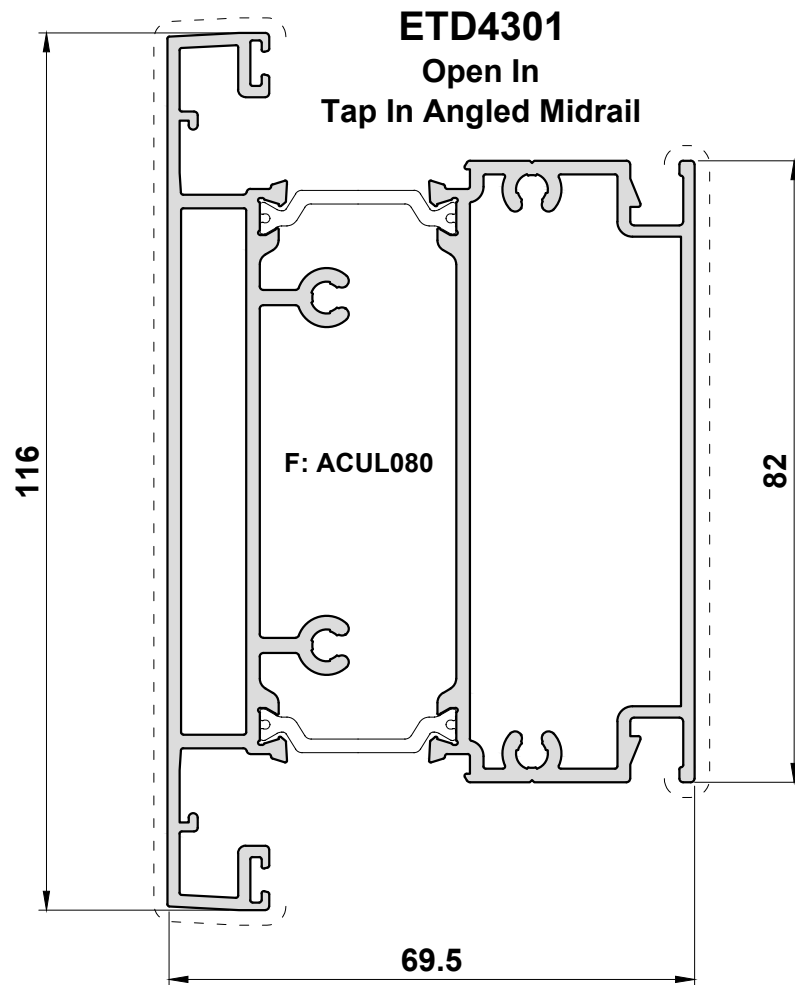
Secondary Visible Side



Scale 1:1

Primary Visible Side

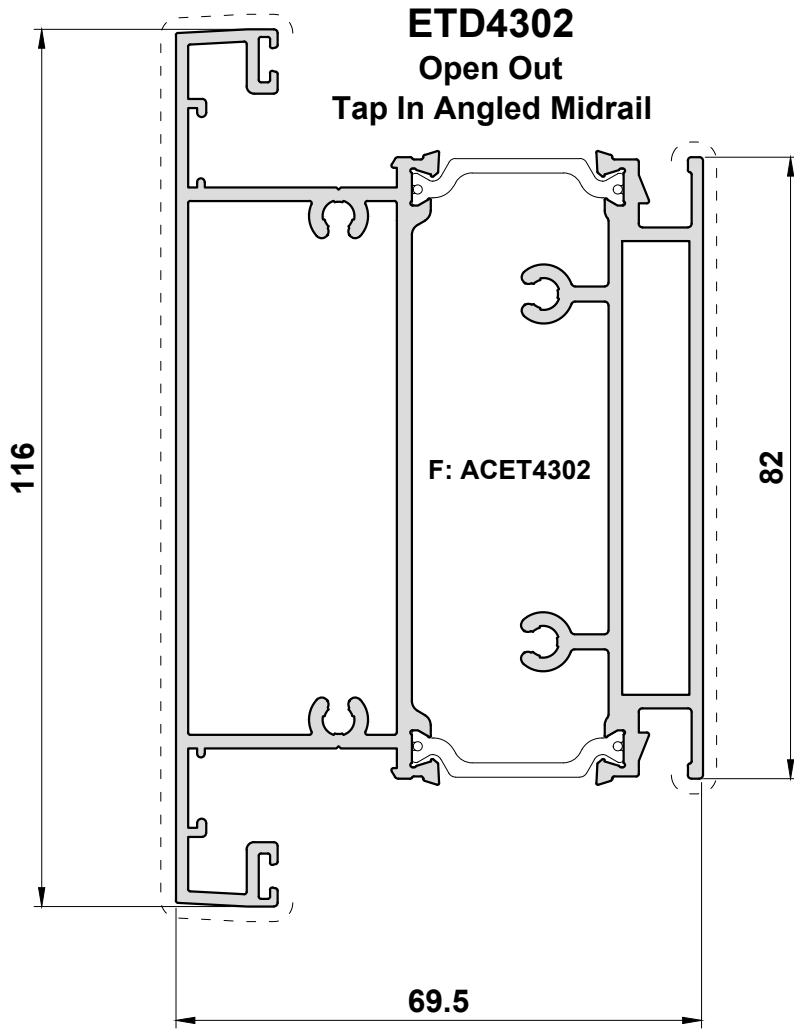
Secondary Visible Side



Scale 1:1

Primary Visible Side

Secondary Visible Side

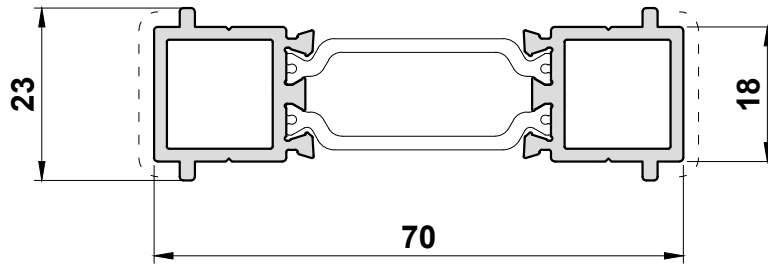


Scale 1:1

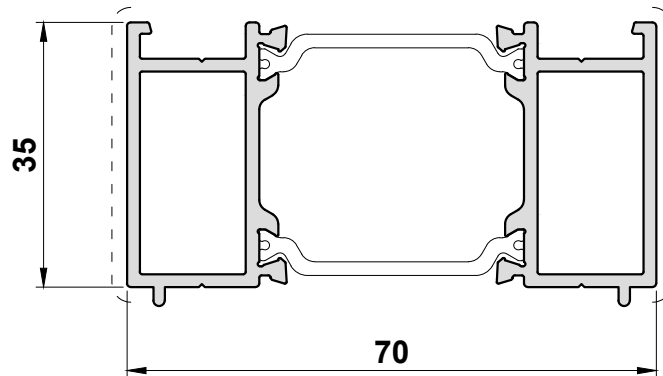
Primary Visible Side

Secondary Visible Side

**ETD455**  
Coupler



**ETD456**  
35mm Head Extension

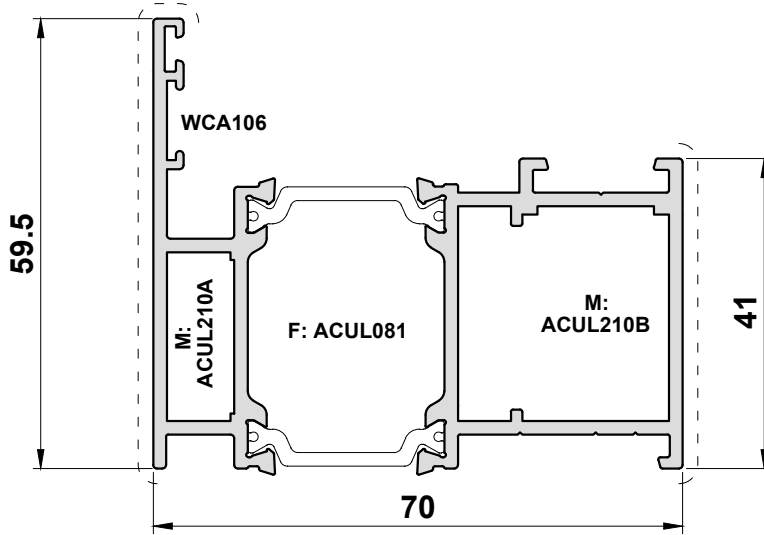


Scale 1:1

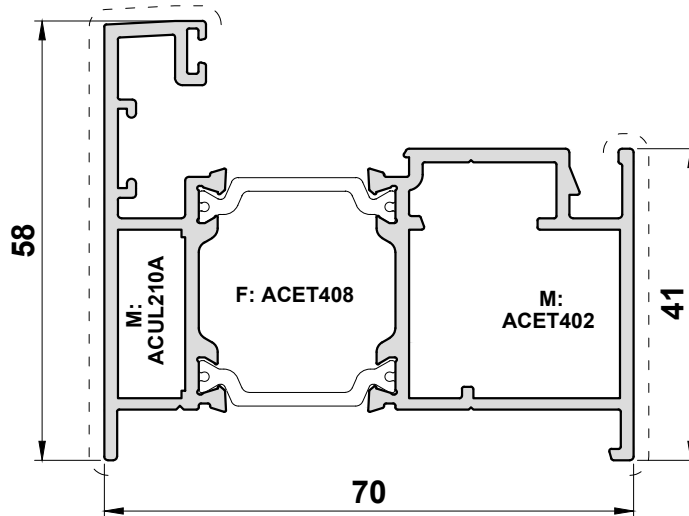
Primary Visible Side

Secondary Visible Side

## ETD404 Flat Fixed Light



## ETD402 Tap In Angled Fixed Light



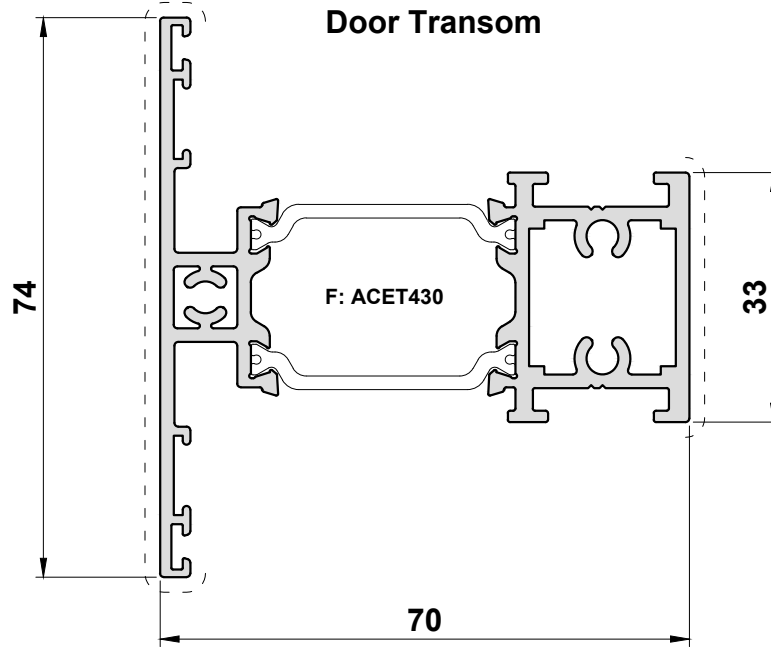
Scale 1:1



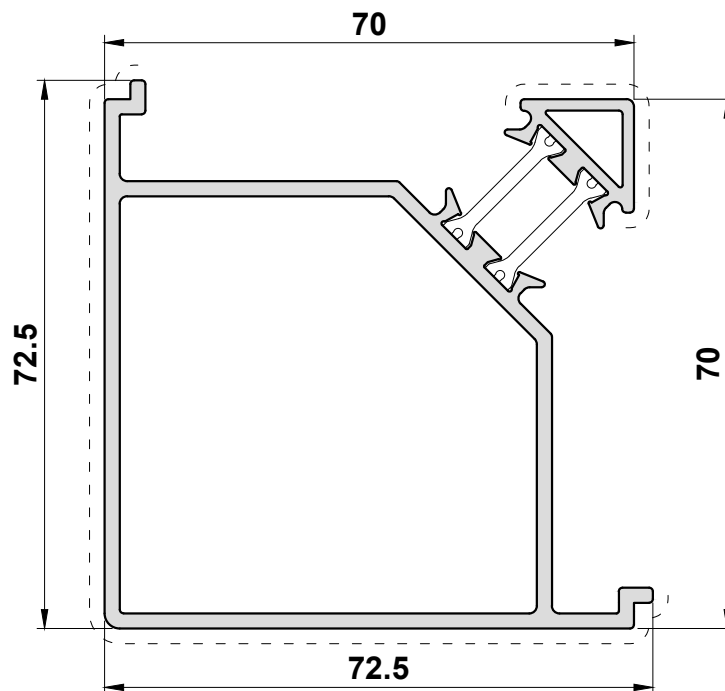
Primary Visible Side

Secondary Visible Side

**ETD432**  
Door Transom



**UN3010**  
90° Corner Post

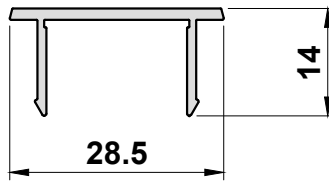


Scale 1:1

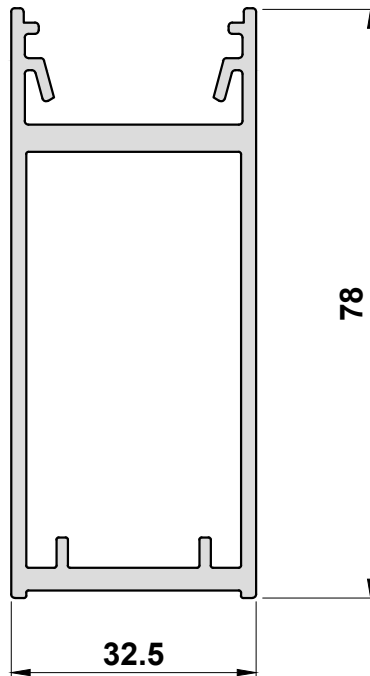
Primary Visible Side

Secondary Visible Side

**SR014**  
Cover Cap for UN514



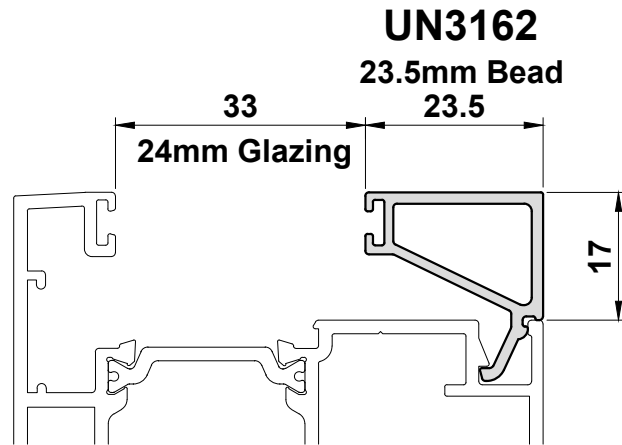
**UN514**  
Re-Inforcement for ETD455



Scale 1:1

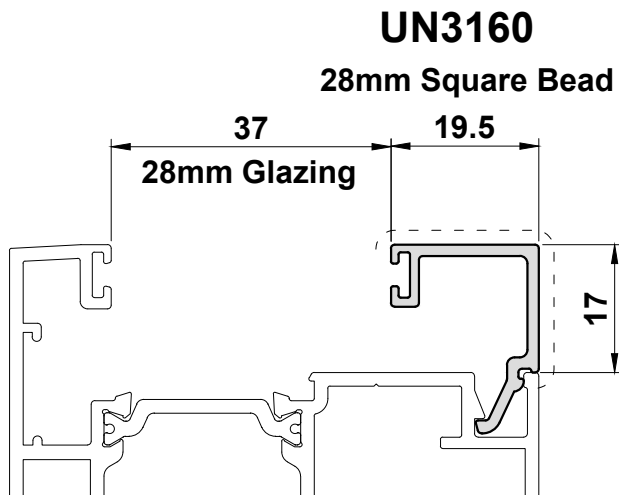
Primary Visible Side

Secondary Visible Side



**UN3162**  
23.5mm Bead  
33  
23.5  
24mm Glazing  
17

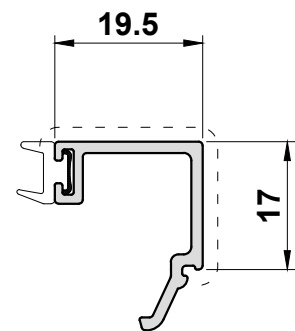
**ETD4202**  
**ETD4203**  
**ETD4204**  
**ETD4205**



**UN3160**  
28mm Square Bead  
37  
28mm Glazing  
19.5  
17

**ETD4202**  
**ETD4203**  
**ETD4204**  
**ETD4205**

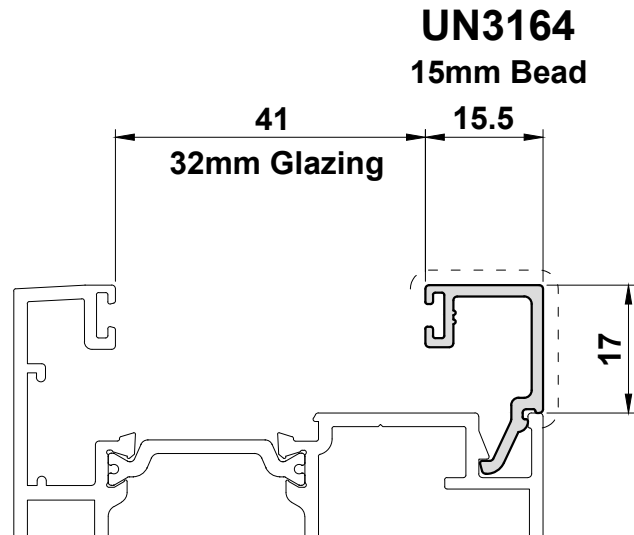
**UN3160G**  
28mm Square Bead  
with Gasket



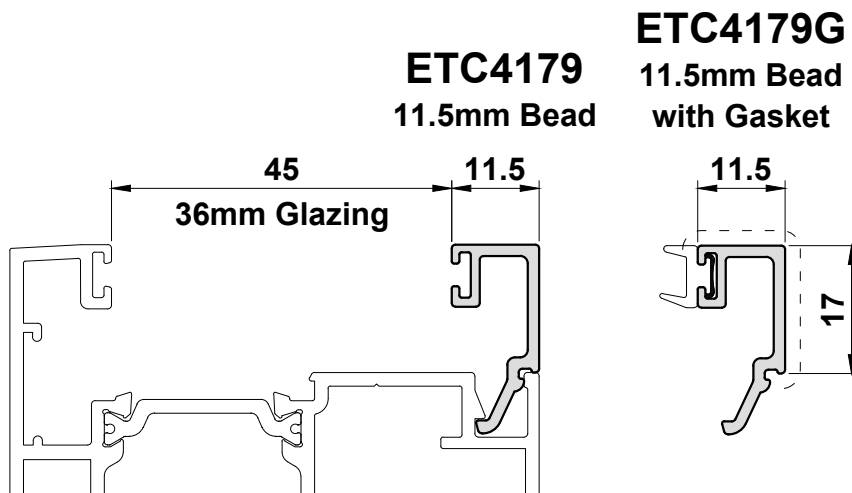
Scale 1:1

Primary Visible Side

Secondary Visible Side



ETD4202  
ETD4203  
ETD4204  
ETD4205



ETD4202  
ETD4203  
ETD4204  
ETD4205

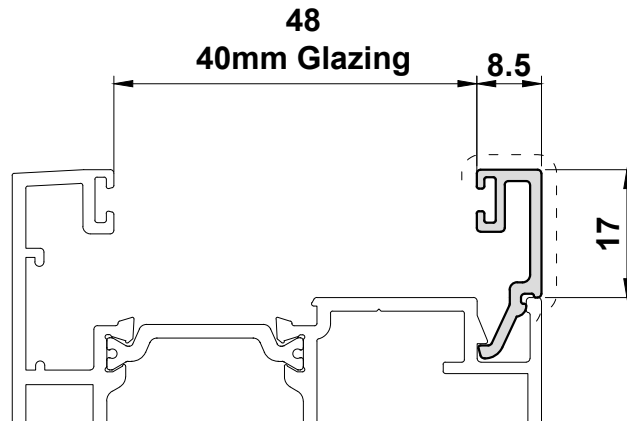
Scale 1:1

Primary Visible Side

Secondary Visible Side

## UN3166

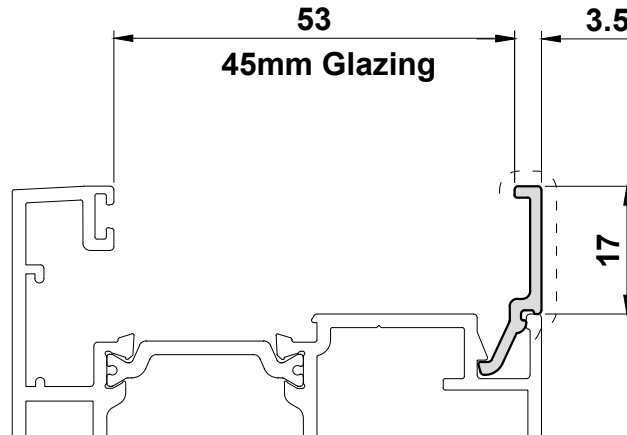
8.5mm Bead



ETD4202  
ETD4203  
ETD4204  
ETD4205

## UN3168

3.5mm Bead



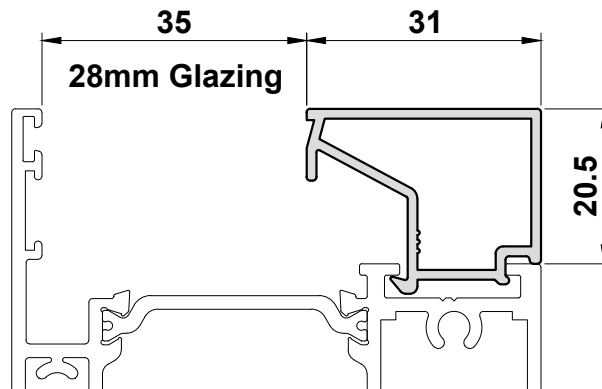
ETD4202  
ETD4203  
ETD4204  
ETD4205

Scale 1:1

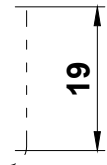
Primary Visible Side

Secondary Visible Side

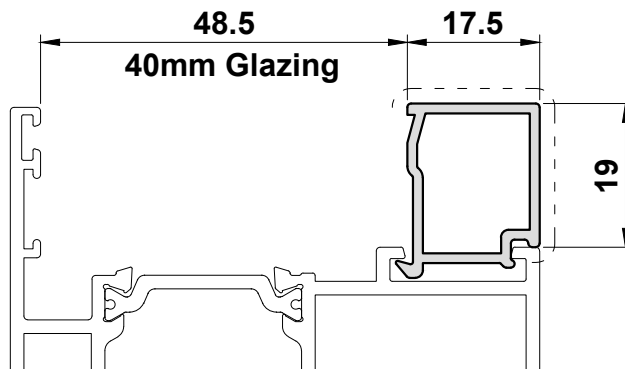
**UL078  
Glazing Bead**



**ETD432**



**UL069  
Glazing Bead**



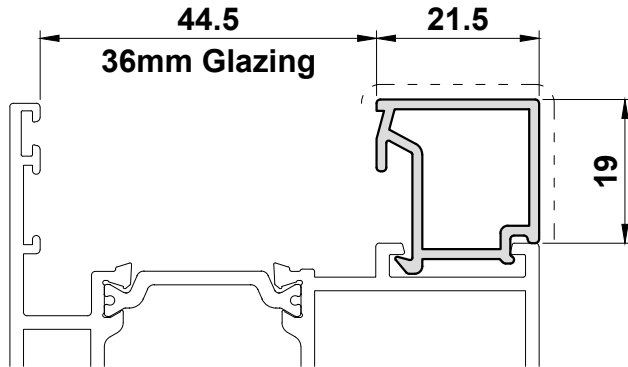
**ETD410  
ETD412  
ETD422  
ETD424**

Scale 1:1

Primary Visible Side

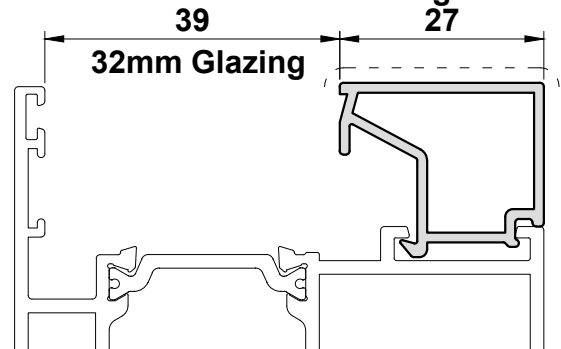
Secondary Visible Side

**UL068**  
Glazing Bead



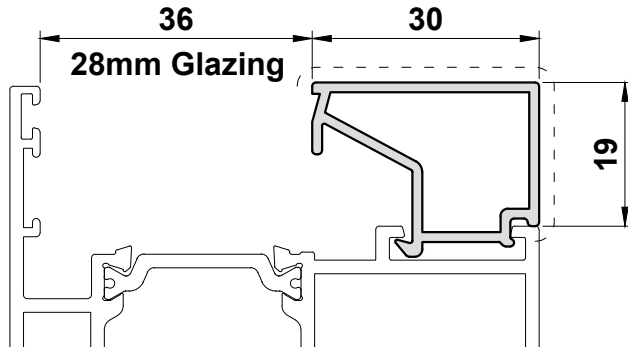
ETD410  
ETD412  
ETD422  
ETD424

**UL067**  
Glazing Bead



ETD410  
ETD412  
ETD422  
ETD424

**UL062**  
Glazing Bead



ETD410  
ETD412  
ETD422  
ETD424

Scale 1:1

Primary Visible Side

Secondary Visible Side

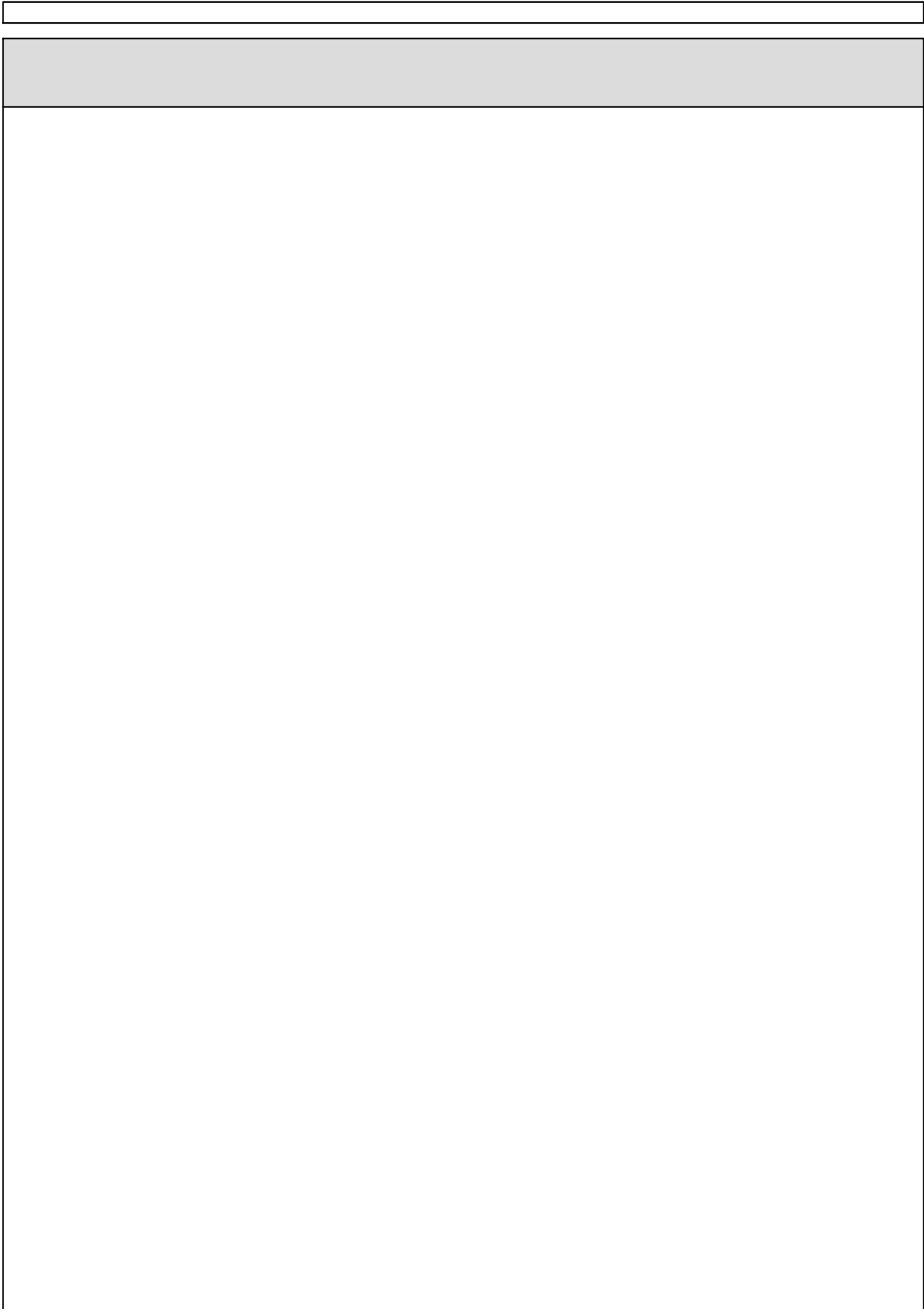
Scale 1:1



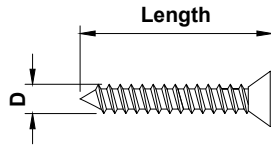
**Section B**

**Accessories**

**Photos & Drawings**



**Countersunk Screws**



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

Part Number	Gauge	X	Length	Description	Box Qty.
ACUN3530	No.6	X	5/8"	Countersunk Pozi Self Tapper S/S	100
MUA025SSZ	No.6	X	1"	Countersunk Pozi Self Tapper S/S	100
ACET067	No.7	X	1/2"	Countersunk Pozi Self Tapper S/S	100
ACET060	No.7	X	1"	Countersunk Pozi Self Tapper S/S	100
ACET066	No.7	X	1 1/2"	Countersunk Pozi Self Tapper S/S	100
MUA067SSZ	No.7	X	2"	Countersunk Pozi Self Tapper S/S	100
ACPD815	No.7	X	3/4"	Countersunk Pozi Self Tapper S/S	100
ACET064	No.8	X	5/8"	Countersunk Pozi Self Tapper S/S	100
ACUN3512	No.8	X	1 1/4"	Countersunk Pozi Self Tapper S/S	100
ACUN3513	No.8	X	1 3/4"	Countersunk Pozi Self Tapper S/S	100
ACET072	No.8	X	2 1/2"	Countersunk Pozi Self Tapper S/S	100
ACET490	4.3mm	X	16mm	Countersunk PH2 Polyamide Screw	1000
ACET290	4.3mm	X	20mm	Countersunk PH2 Polyamide Screw	100
ACET390	4.3mm	X	25mm	Countersunk PH2 Polyamide Screw	200
ACET190	4.3mm	X	45mm	Countersunk PH2 Polyamide Screw	1000
ACVS062	4.3mm	X	65mm	Countersunk PH2 Polyamide Screw	1000
ACET048	No.10	X	3/8"	Countersunk Pozi Self Tapper S/S	100
ACIM062	No.10	X	1 1/4"	Countersunk Pozi Self Tapper S/S	100
ACET062	No.10	X	2"	Countersunk Pozi Self Tapper S/S	100
ACET076	No.10	X	2 1/2"	Countersunk Pozi Self Tapper S/S	100



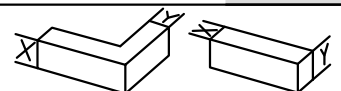
T-BARS  
ACVG65=2.5mm  
ACVG66=3.0mm  
ACVL150=4.0mm



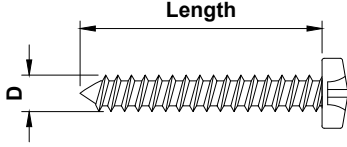
Screw (Grub)

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



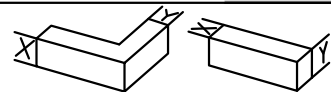
T-BARS  
ACVG65=2.5mm  
ACVG66=3.0mm  
ACVL150=4.0mm



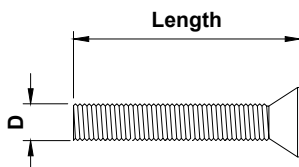
Screw (Grub)

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



## Countersunk 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



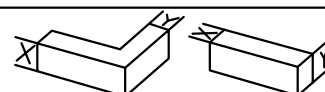
T-BARS  
ACVG65=2.5mm  
ACVG66=3.0mm  
ACVL150=4.0mm



Screw (Grub)

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





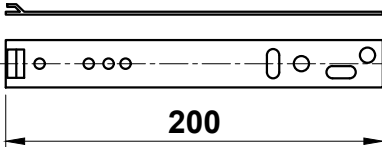


WP = White  
BL = Black



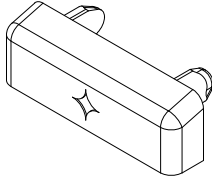

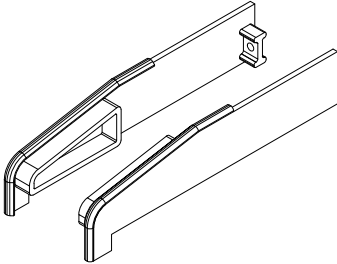
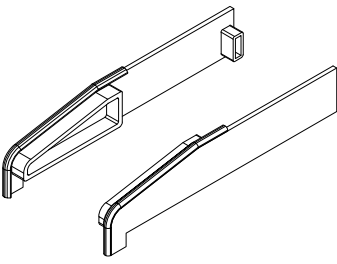
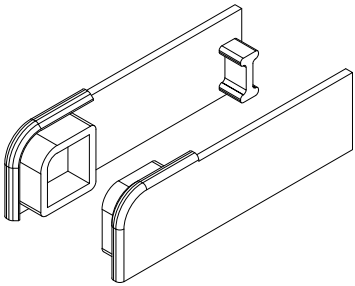


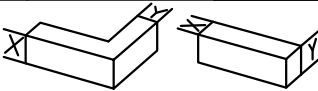
**ACCESSORIES : PHOTOS & DRAWINGS**

Image	Part Code	Pack	Unit	Application	Colour	
	<b>ACCY3560NKS3</b>  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	
						<b>ACCY6035NKS3</b>  35/60 TS007 3 Star Euro Profile Cylinder  Supplied with 3 Keys
SA						
KL						
HP						
SSC						
SMC						
WP						
BL						
PC						
	<b>ACCY3560NKTTTS3</b>  35/60 TS007 3 Star Euro Profile Cylinder  Supplied with 3 Keys	1	Each	Open Out		
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
						<b>ACCY6035NKTTTS3</b>  60/35 TS007 3 Star Euro Profile Cylinder  Supplied with 3 Keys
SA						
KL						
HP						
SSC						
SMC						
WP						
BL						
PC						
	<b>ACDV251</b>  Lever/Lever Handle	1	pair			
					SA	
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	✓
					<p>T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm</p> <p>Screw (Grub)</p>	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome

ACCESSORIES : PHOTOS & DRAWINGS

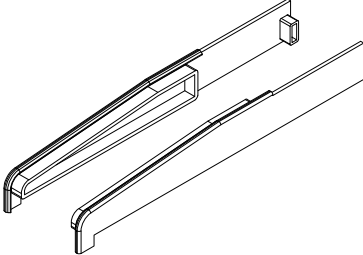

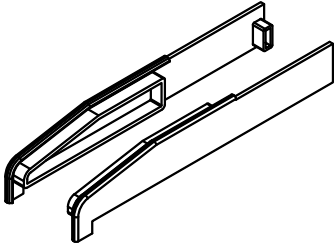
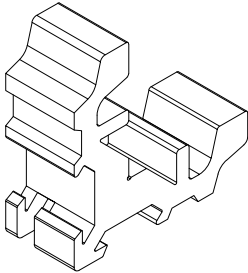
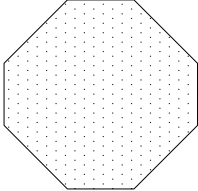


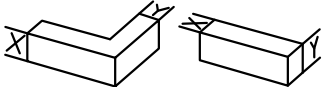
Image	Part Code	Pack	Unit	Application	Colour		
	<b>ACDV737</b>  Bottom Shoot Bolt	1	Each	<b>ACUL276</b> <b>ACUL277</b> <b>ACUL278</b>	MF	✓	
					SA		
					KL		
					HP		
					SSC		
					SMC		
					WP		
					BL		
					PC		
						<b>ACDV738</b>  Top Shoot Bolt	1
SA							
KL							
HP							
SSC							
SMC							
WP							
BL							
PC							
	<b>ACDV742</b>  200mm Extension for ACDV738	1	Each	<b>ACUL276</b> <b>ACUL277</b> <b>ACUL278</b> <b>ACDV737</b> <b>ACDV738</b>			
					SA		
					KL		
					HP		
					SSC		
					SMC		
					WP		
					BL		
					PC		
						<b>ACDV744</b>  400mm Extension for ACDV738	1
SA							
KL							
HP							
SSC							
SMC							
WP							
BL							
PC							
	<b>ACET130</b>  Galvanised Steel Fixing Strap  200mm x 25mm x 1.5mm	100	pack	<b>ETD410</b> <b>ETD412</b>			
					SA		
					KL		
					HP		
					SSC		
					SMC		
					WP		
					BL		
					PC		
					 <p>T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm</p>  <p>Screw (Grub)</p>	<p>MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome</p>	
WP = White BL = Black							

ACCESSORIES : PHOTOS & DRAWINGS

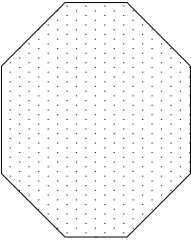

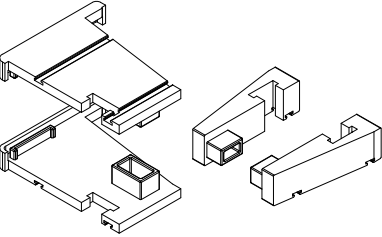
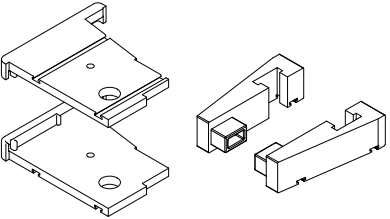
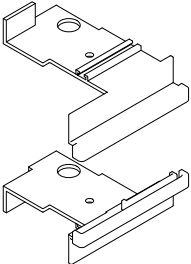

Image	Part Code	Pack	Unit	Application	Colour																		
	<b>ACET131</b>  PVC Drainage Cap  For Colour match Drainage caps use - ACET431	<b>100</b>	<b>pack</b>		<table border="1"> <tr><td>MF</td><td></td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>WP</td><td>✓</td></tr> <tr><td>BL</td><td>✓</td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		WP	✓	BL	✓	PC	
MF																							
SA																							
KL																							
HP																							
SSC																							
SMC																							
WP	✓																						
BL	✓																						
PC																							
	<b>ACET149</b>  Slimline Restrictor	<b>1</b>	<b>each</b>		<table border="1"> <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>WP</td><td></td></tr> <tr><td>BL</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF	✓	SA		KL		HP		SSC		SMC		WP		BL		PC	
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SA																							
KL																							
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SSC																							
SMC																							
WP																							
BL																							
PC																							
	<b>ACET152</b>  PVC Cill End Caps	<b>10</b>	<b>pair</b>	<b>ETC452</b>	<table border="1"> <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>WP</td><td>✓</td></tr> <tr><td>BL</td><td>✓</td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		WP	✓	BL	✓	PC	
MF																							
SA																							
KL																							
HP																							
SSC																							
SMC																							
WP	✓																						
BL	✓																						
PC																							
	<b>ACET157</b>  PVC Cill End Caps	<b>10</b>	<b>pair</b>	<b>ETC457</b>	<table border="1"> <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>WP</td><td>✓</td></tr> <tr><td>BL</td><td>✓</td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		WP	✓	BL	✓	PC	
MF																							
SA																							
KL																							
HP																							
SSC																							
SMC																							
WP	✓																						
BL	✓																						
PC																							
	<b>ACET178</b>  PVC Cill End Caps	<b>10</b>	<b>pair</b>	<b>ETC451</b>	<table border="1"> <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>WP</td><td>✓</td></tr> <tr><td>BL</td><td>✓</td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		WP	✓	BL	✓	PC	
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HP																							
SSC																							
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WP	✓																						
BL	✓																						
PC																							
 <p>T-BARS ACVG66=2.5mm ACVG66=3.0mm ACVL150=4.0mm</p>  <p>Screw (Grub)</p>	<p>MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome</p>	<p>W = White Z = Black</p>																					



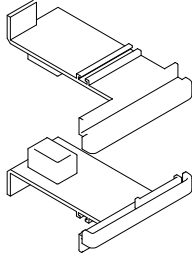
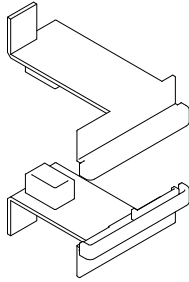
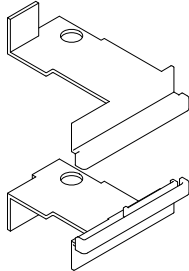
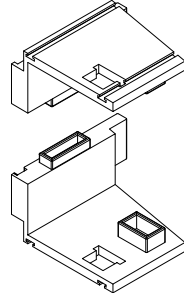
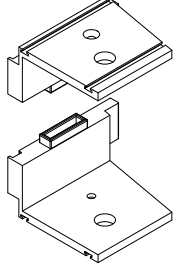



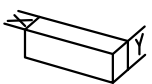
**ACCESSORIES : PHOTOS & DRAWINGS**

Image	Part Code	Pack	Unit	Application	Colour	
	<b>ACET179</b>  PVC Cill End Caps	<b>10</b>	<b>pair</b>	<b>ETC479</b>	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	<b>ACET252</b>  Hinge Protector Kit	<b>1</b>	<b>kit</b>		MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	<b>ACET258</b>  PVC Cill End Cap	<b>10</b>	<b>pair</b>	<b>ETC458</b>	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	<b>ACET402</b>  Mechanical Cleat	<b>24</b>	<b>pack</b>	<b>ETD402</b>	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
	<b>ACET408</b>  Infill Foam	<b>1</b>	<b>each</b>	<b>ETD402</b>	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	✓
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	<b>MF</b> = Mill Finish <b>SA</b> = Silver Anodised <b>KL</b> = Basic Colour <b>HP</b> = Special Colour <b>SSC</b> = Smooth Satin Chrome <b>SMC</b> = Smokey Chrome <b>PC</b> = Polished Chrome	<b>W</b> = White <b>Z</b> = Black			

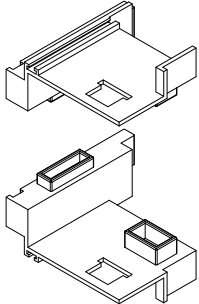
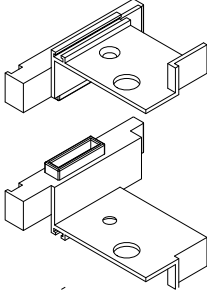
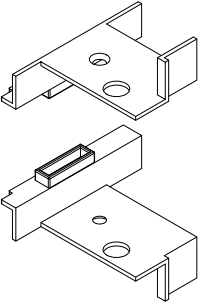
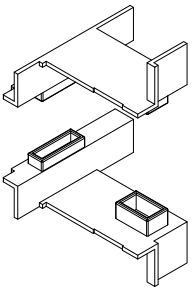
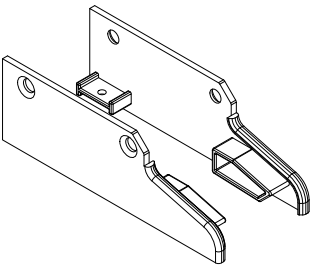

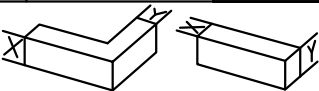
**ACCESSORIES : PHOTOS & DRAWINGS**

Image	Part Code	Pack	Unit	Application	Colour	
	<b>ACET412</b>  Infill Foam	1	each	ETD412	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	✓
					PC	
						<b>ACET4133</b>  Bridge Packer
SA						
KL						
HP						
SSC						
SMC						
WP						
BL	✓					
PC						
	<b>ACET4142</b>  End Cap Kit	1	kit	<b>ETD447</b> <b>ETD495</b> <b>ETD496</b>		
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
						<b>ACET4143</b>  End Cap Kit
SA						
KL						
HP						
SSC						
SMC						
WP	✓					
BL	✓					
PC						
	<b>ACET4145</b>  End Cap	10	pairs	<b>ETD448</b> <b>ETD490</b> <b>ETD492</b>		
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
					 <small>T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm</small>	<b>MF</b> = Mill Finish <b>SA</b> = Silver Anodised <b>KL</b> = Basic Colour <b>HP</b> = Special Colour <b>SSC</b> = Smooth Satin Chrome <b>SMC</b> = Smokey Chrome <b>PC</b> = Polished Chrome

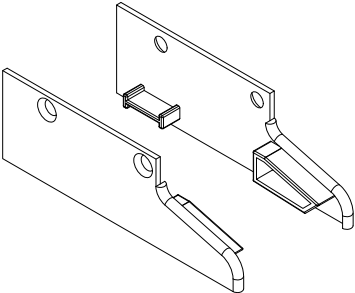
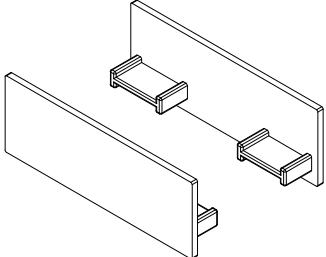
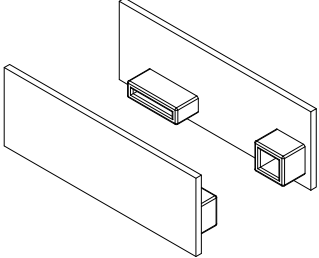
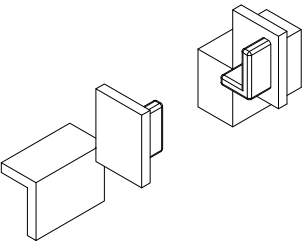
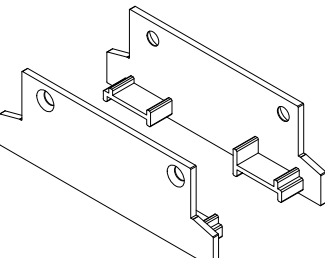


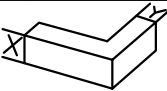
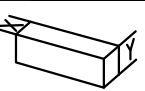
**ACCESSORIES : PHOTOS & DRAWINGS**

Image	Part Code	Pack	Unit	Application	Colour	
	<b>ACET4146</b>  End Cap	<b>10</b>	<b>pairs</b>	<b>ETD447</b> <b>ETD490</b> <b>ETD492</b>	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	✓
					PC	✓
						<b>ACET4147</b>  End Cap
SA						
KL						
HP						
SSC						
SMC						
WP						
BL	✓					
PC	✓					
	<b>ACET4148</b>  End Cap	<b>10</b>	<b>pairs</b>	<b>ETD448</b> <b>ETD410</b>		
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	✓
					PC	✓
						<b>ACET4152</b>  Flush Low Ramp Threshold End Cap
SA						
KL						
HP						
SSC						
SMC						
WP	✓					
BL	✓					
PC						
	<b>ACET4153</b>  Flush Low Ramp Threshold End Cap	<b>1</b>	<b>kit</b>	<b>ETD446</b> <b>ETD497</b> <b>ETD499</b>	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
PC						
 T-BARS ACVG66=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	<b>MF</b> = Mill Finish <b>SA</b> = Silver Anodised <b>KL</b> = Basic Colour <b>HP</b> = Special Colour <b>SSC</b> = Smooth Satin Chrome <b>SMC</b> = Smokey Chrome <b>PC</b> = Polished Chrome	<b>WP</b> = White <b>BL</b> = Black	 		

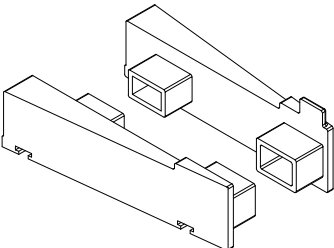
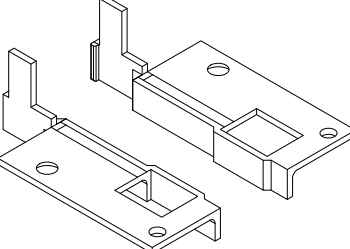
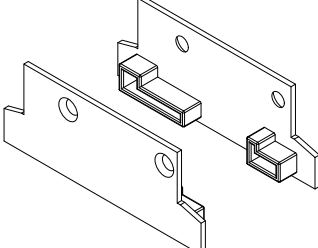
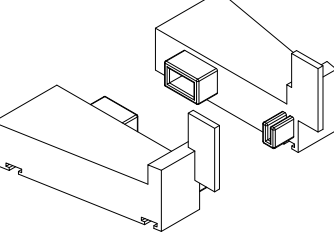
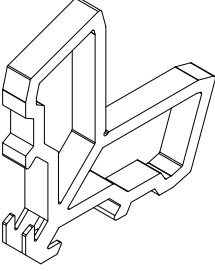


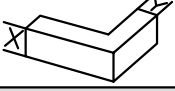
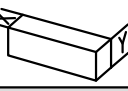
**ACCESSORIES : PHOTOS & DRAWINGS**

Image	Part Code	Pack	Unit	Application	Colour
	<b>ACET4155</b> Flush Low Rebate Threshold End Cap	1	kit	<b>ETD445</b> <b>ETD493</b> <b>UL294</b>	MF SA KL HP SSC SMC WP ✓ BL ✓ PC
	<b>ACET4156</b> Flush Low Rebate Threshold End Cap	1	kit	<b>ETD446</b> <b>ETD493</b> <b>UL294</b>	MF SA KL HP SSC SMC WP ✓ BL ✓ PC
	<b>ACET4157</b> End Cap	10	pairs	<b>ETD412</b> <b>ETD446</b>	MF SA KL HP SSC SMC WP ✓ BL ✓ PC
	<b>ACET4158</b> End Cap	10	pairs	<b>ETD412</b> <b>ETD445</b>	MF SA KL HP SSC SMC WP ✓ BL ✓ PC
	<b>ACET4190</b> ETD490 End Cap	1	pair	<b>ETD490</b>	MF ✓ SA KL ✓ HP ✓ SSC SMC WP ✓ BL ✓ PC
	<p>T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm</p> <p>Screw (Grub)</p>	<p>MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome</p>	<p>WP = White BL = Black</p>		

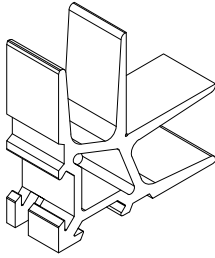
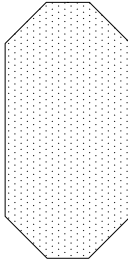
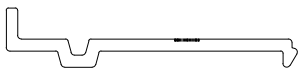

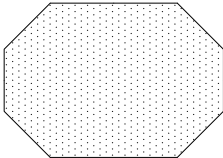


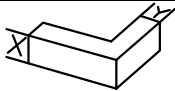
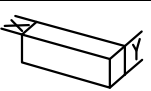
**ACCESSORIES : PHOTOS & DRAWINGS**

Image	Part Code	Pack	Unit	Application	Colour	
	<b>ACET4191</b>  End Cap	1	pair	<b>ETD412</b> <b>ETD491</b>	MF	✓
					SA	
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	<b>ACET4192</b>  ETD492 End Cap	10	pairs	<b>ETD492</b>	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	<b>ACET4193</b>  End Cap	10	pairs	<b>ETD412</b> <b>ETD493</b>	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	<b>ACET4194</b>  End Cap	1	pair	<b>UL294</b>	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	<b>ACET4195</b>  ETD495 End Cap	10	Pairs	<b>ETD495</b>	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	<b>MF</b> = Mill Finish <b>SA</b> = Silver Anodised <b>KL</b> = Basic Colour <b>HP</b> = Special Colour <b>SSC</b> = Smooth Satin Chrome <b>SMC</b> = Smokey Chrome <b>PC</b> = Polished Chrome	<b>WP</b> = White <b>BL</b> = Black	 		

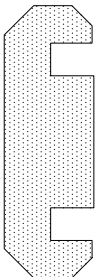
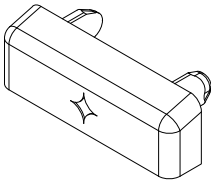
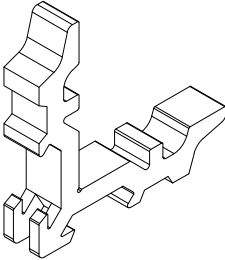
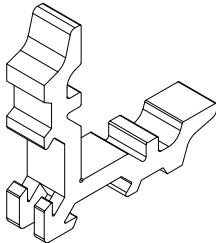
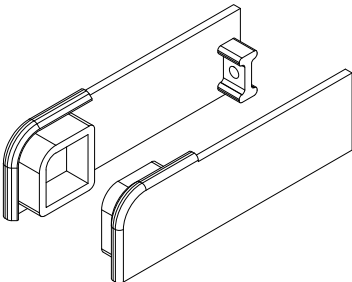


ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	<b>ACET4196</b>  ETD496 End Cap	10	Pairs	ETD496	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	<b>ACET4197</b>  End Cap for UL297	1	Pair	UL297	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	<b>ACET4198</b>  End Cap	1	pair	ETD412 ETD497	MF	✓
					SA	
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	<b>ACET4199</b>  End Cap	1	pair	ETD499	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	<b>ACET4203</b>  Mechanical Cleat	24	pack	ETD4203	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
 <p>T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm</p>  <p>Screw (Grub)</p>	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
	<b>ACET4204</b>  <b>Mechanical Cleat</b>	<b>24</b>	<b>pack</b>	<b>ETD4202</b> <b>ETD4204</b>	MF <input checked="" type="checkbox"/>
					SA <input type="checkbox"/>
					KL <input type="checkbox"/>
					HP <input type="checkbox"/>
					SSC <input type="checkbox"/>
					SMC <input type="checkbox"/>
					WP <input type="checkbox"/>
					BL <input type="checkbox"/>
					PC <input type="checkbox"/>
	<b>ACET4205</b>  <b>Infill Foam</b>	<b>1</b>	<b>each</b>	<b>ETD4203</b> <b>ETD4205</b>	MF <input type="checkbox"/>
					SA <input type="checkbox"/>
					KL <input type="checkbox"/>
					HP <input type="checkbox"/>
					SSC <input type="checkbox"/>
					SMC <input type="checkbox"/>
					WP <input type="checkbox"/>
					BL <input checked="" type="checkbox"/>
					PC <input type="checkbox"/>
	<b>ACET4206</b>  <b>Bridge Packer</b>	<b>10</b>	<b>pack</b>	<b>ETD402</b> <b>ETD4202</b> <b>ETD4204</b> <b>ETD4301</b>	MF <input type="checkbox"/>
					SA <input type="checkbox"/>
					KL <input type="checkbox"/>
					HP <input type="checkbox"/>
					SSC <input type="checkbox"/>
					SMC <input type="checkbox"/>
					WP <input type="checkbox"/>
					BL <input checked="" type="checkbox"/>
					PC <input type="checkbox"/>
	<b>ACET4207</b>  <b>Bridge Packer</b>	<b>10</b>	<b>pack</b>	<b>ETD4203</b> <b>ETD4205</b> <b>ETD4302</b>	MF <input type="checkbox"/>
					SA <input type="checkbox"/>
					KL <input type="checkbox"/>
					HP <input type="checkbox"/>
					SSC <input type="checkbox"/>
					SMC <input type="checkbox"/>
					WP <input type="checkbox"/>
					BL <input checked="" type="checkbox"/>
					PC <input type="checkbox"/>
	<b>ACET430</b>  <b>Infill Foam</b>	<b>1</b>	<b>each</b>	<b>ETD432</b>	MF <input type="checkbox"/>
					SA <input type="checkbox"/>
					KL <input type="checkbox"/>
					HP <input type="checkbox"/>
					SSC <input type="checkbox"/>
					SMC <input type="checkbox"/>
					WP <input type="checkbox"/>
					BL <input checked="" type="checkbox"/>
					PC <input type="checkbox"/>
 <small>T-BARS ACVG66=2.5mm ACVG66=3.0mm ACVL150=4.0mm</small>	 <small>Screw (Grub)</small>	<b>MF = Mill Finish</b> <b>SA = Silver Anodised</b> <b>KL = Basic Colour</b> <b>HP = Special Colour</b> <b>SSC = Smooth Satin Chrome</b> <b>SMC = Smokey Chrome</b> <b>PC = Polished Chrome</b>	<b>WP = White</b> <b>BL = Black</b>	 	

ACCESSORIES : PHOTOS & DRAWINGS

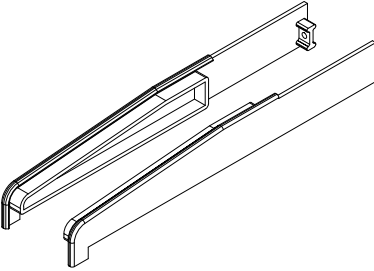
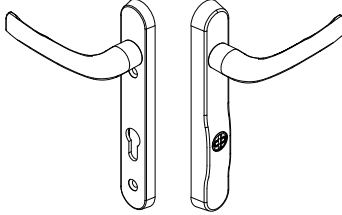
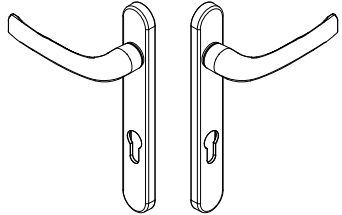
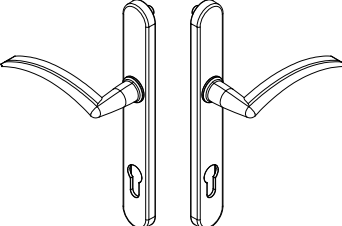
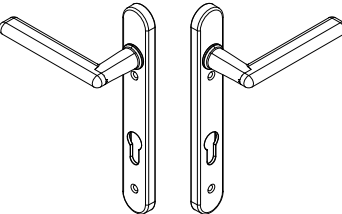


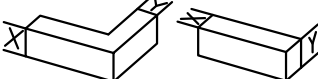
Image	Part Code	Pack	Unit	Application	Colour	
	<b>ACET4302</b>  Infill Foam	1	each	<b>ETD4302</b>	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	✓
					PC	
						<b>ACET432</b>  Colour Match Drainage Cover Cap
SA	✓					
KL	✓					
HP						
SSC						
SMC	✓					
WP	✓					
BL						
PC						
	<b>ACET442</b>  Mechanical Cleat	24	pack	<b>ETD442</b>		
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
						<b>ACET443</b>  Mechanical Cleat
SA						
KL						
HP						
SSC						
SMC						
WP						
BL						
PC						
	<b>ACET451</b>  Cast Cill End Caps (Pair)	1	pair	<b>ETC451</b>		
					SA	
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
					 <p>T-BARS ACVG66=2.5mm ACVG66=3.0mm ACVL150=4.0mm</p>  <p>Screw (Grub)</p>	<p>MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome</p>



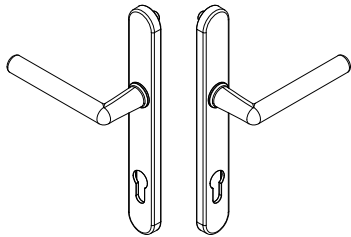
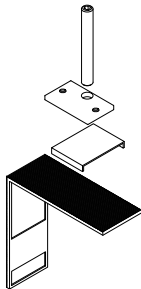
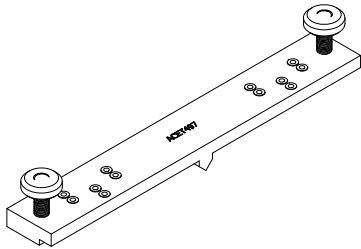
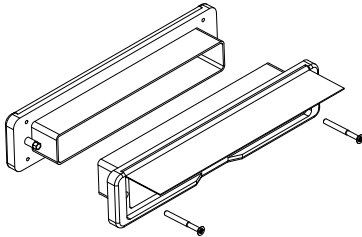


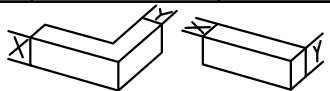
**ACCESSORIES : PHOTOS & DRAWINGS**

Image	Part Code	Pack	Unit	Application	Colour	
	<b>ACET452</b> <b>Cast Cill End Caps</b> <b>(Pair)</b>	<b>1</b>	<b>Pair</b>	<b>ETC452</b>	MF	✓
					SA	
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	<b>ACET457</b> <b>Cast Cill End Caps</b> <b>(Pair)</b>	<b>1</b>	<b>Pair</b>	<b>ETC457</b>	MF	✓
					SA	
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	<b>ACET458</b> <b>Cast Cill End Caps</b> <b>(Pair)</b>	<b>1</b>	<b>Pair</b>	<b>ETC458</b>	MF	✓
					SA	
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	<b>ACET475</b> <b>Run Up Blocks</b>	<b>2</b>	<b>Pack</b>	<b>ETD410</b>	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	<b>ACET476</b> <b>Run Up Block</b>	<b>2</b>	<b>pack</b>	<b>ETD412</b>	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
<p>T-BARS ACV666=2.5mm ACV666=3.0mm ACVL150=4.0mm</p> <p>Screw (Grub)</p>	<b>MF</b> = Mill Finish <b>SA</b> = Silver Anodised <b>KL</b> = Basic Colour <b>HP</b> = Special Colour <b>SSC</b> = Smooth Satin Chrome <b>SMC</b> = Smokey Chrome <b>PC</b> = Polished Chrome	<b>WP</b> = White <b>BL</b> = Black				

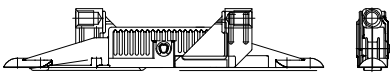
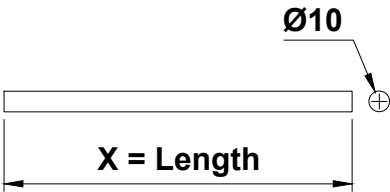
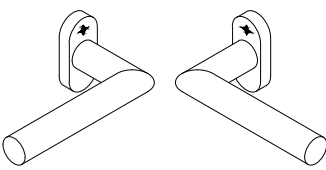
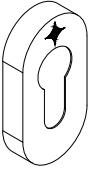
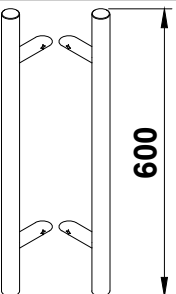

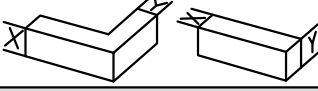
ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	<b>ACET479N</b>  <b>Cast Cill End Caps</b>  <b>(Pair)</b>	<b>1</b>	<b>Pair</b>	<b>ETC479</b>	MF	✓
					SA	
					KL	✓
					HP	✓
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
	<b>ACET480</b>  <b>PAS 24</b> <b>Lever / Lever Handle</b>	<b>1</b>	<b>pair</b>		MF	
					SA	
					KL	✓
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	✓
	<b>ACET484</b>  <b>Standard</b> <b>Lever / Lever Handle</b>	<b>1</b>	<b>pair</b>		MF	
					SA	
					KL	✓
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	✓
	<b>ACET486</b>  <b>Swept</b> <b>Lever / Lever Handle</b>	<b>1</b>	<b>pair</b>		MF	
					SA	
					KL	✓
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	✓
	<b>ACET487</b>  <b>Oval</b> <b>Lever / Lever Handle</b>	<b>1</b>	<b>pair</b>		MF	
					SA	
					KL	✓
					HP	
					SSC	
					SMC	
					WP	✓
					BL	✓
					PC	
 <small>T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm</small>	 <small>Screw (Grub)</small>	<b>MF</b> = Mill Finish <b>SA</b> = Silver Anodised <b>KL</b> = Basic Colour <b>HP</b> = Special Colour <b>SSC</b> = Smooth Satin Chrome <b>SMC</b> = Smokey Chrome <b>PC</b> = Polished Chrome	<b>WP</b> = White <b>BL</b> = Black			

**ACCESSORIES : PHOTOS & DRAWINGS**

Image	Part Code	Pack	Unit	Application	Colour
	<b>ACET488</b>  <b>Round Lever / Lever Handle</b>	<b>1</b>	<b>pair</b>		MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
PC					
	<b>ACET496</b>  <b>Glass Adjustment Kit</b>	<b>1</b>	<b>kit</b>	<b>ETD4202 ETD4203 ETD4204 ETD4205 ETD424</b>	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
PC					
	<b>ACET497</b>  <b>Drill Jig</b>	<b>1</b>	<b>each</b>	<b>ACET496 ETD4202 ETD4203 ETD4204 ETD4205 ETD424</b>	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
PC					
	<b>ACPD6051</b>  <b>Nu Mail Letter Box</b>  <b>(Only available in black or satin nickel)</b>	<b>1</b>	<b>each</b>	<b>ETD430 ETD4301 ETD4302</b>	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
PC					
	<b>ACPD767</b>  <b>Bridge Packer</b>	<b>10</b>	<b>pack</b>	<b>ETD442</b>	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
PC					
	<b>MF = Mill Finish</b> <b>SA = Silver Anodised</b> <b>KL = Basic Colour</b> <b>HP = Special Colour</b> <b>SSC = Smooth Satin Chrome</b> <b>SMC = Smokey Chrome</b> <b>PC = Polished Chrome</b>	<b>WP = White</b> <b>BL = Black</b>			

ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour
	<b>ACPD844</b>  <b>35mm Backset Shootbolt Adaptor</b>	1	each	<b>All Locks Excluding ACUL276 ACUL277 ACUL278</b>	MF <input checked="" type="checkbox"/> SA <input type="checkbox"/> KL <input type="checkbox"/> HP <input type="checkbox"/> SSC <input type="checkbox"/> SMC <input type="checkbox"/> WP <input type="checkbox"/> BL <input type="checkbox"/> PC <input type="checkbox"/>
	<b>ACPD8XX</b>  <b>10mm Dia Galvanised Rod</b>  ACPD846: X = 1000mm ACPD847: X = 1250mm ACPD848: X = 1500mm ACPD849: X = 2000mm	1	each	<b>ACPD844</b>	MF <input checked="" type="checkbox"/> SA <input type="checkbox"/> KL <input type="checkbox"/> HP <input type="checkbox"/> SSC <input type="checkbox"/> SMC <input type="checkbox"/> WP <input type="checkbox"/> BL <input type="checkbox"/> PC <input type="checkbox"/>
	<b>ACSM014SS</b>  <b>Pair Stainless Steel Lever Handles on Oval Backplate</b>  Kit Includes spindle & back to back fixings.	1	pair	<b>ACUL282 ACUL283</b>	MF <input type="checkbox"/> SA <input type="checkbox"/> KL <input type="checkbox"/> HP <input type="checkbox"/> SSC <input type="checkbox"/> SMC <input type="checkbox"/> WP <input type="checkbox"/> BL <input type="checkbox"/> PC <input type="checkbox"/>
	<b>ACSM015SS</b>  <b>Stainless Steel Oval Escutcheon</b> Kit Contains: 1 x External Cover Plate 1 x Internal Fixing Plate 4 x Screws	1	each	<b>ACSM020SS ACSM021SS ACSM040SS</b>	MF <input type="checkbox"/> SA <input type="checkbox"/> KL <input type="checkbox"/> HP <input type="checkbox"/> SSC <input type="checkbox"/> SMC <input type="checkbox"/> WP <input type="checkbox"/> BL <input type="checkbox"/> PC <input type="checkbox"/>
	<b>ACSM020SS</b>  <b>600mm Stainless Steel Tubular Handle (Pair)</b>  Back to back fixing kit included.	1	each	<b>ACSM015SS</b>	MF <input type="checkbox"/> SA <input type="checkbox"/> KL <input type="checkbox"/> HP <input type="checkbox"/> SSC <input type="checkbox"/> SMC <input type="checkbox"/> WP <input type="checkbox"/> BL <input type="checkbox"/> PC <input type="checkbox"/>
	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			

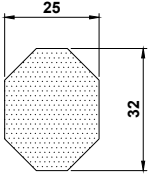
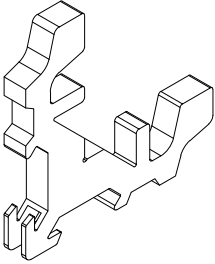
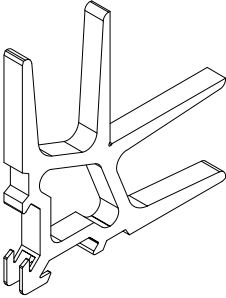
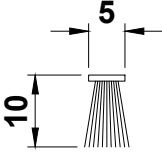
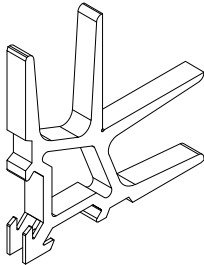

ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour
	<b>ACSM021SS</b>  1200mm Stainless Steel Tubular Handle (Pair)  Back to back fixing kit included.	1	each	ACSM015SS	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	<b>ACSM030</b>  Secret Single Fixing Kit for ACISM20SS & ACISM21SS	1	each	ACSM020SS ACSM021SS ACSM037 ACSM038	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	<b>ACSM031</b>  Back to Back Fixing Kit for ACISM20SS & ACISM21SS	1	each	ACSM020SS ACSM021SS	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	<b>ACSM037SS</b>  600mm Stainless Steel Tubular Handle (Single)	1	each	ACSM015SS ACSM032	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	<b>ACSM038SS</b>  1200mm Stainless Steel Tubular Handle (Single)	1	each	ACSM015SS ACSM032	MF
					SA
					KL
					HP
					SSC
					SMC
					WP
					BL
					PC
	<b>MF</b> = Mill Finish <b>SA</b> = Silver Anodised <b>KL</b> = Basic Colour <b>HP</b> = Special Colour <b>SSC</b> = Smooth Satin Chrome <b>SMC</b> = Smokey Chrome <b>PC</b> = Polished Chrome	<b>WP</b> = White <b>BL</b> = Black			

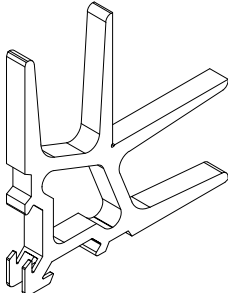
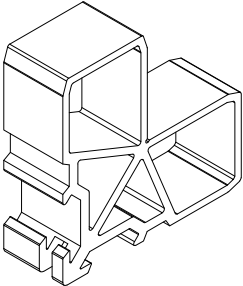
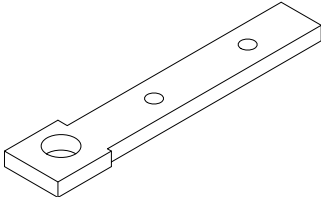




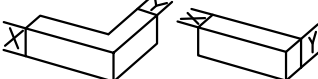
ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	<b>ACSM040SS</b>  Stainless Steel Lever Handle on Oval Backplate (Not Handed)  Fixings and Spindle Sold Separately	1	pair	ACSM015SS	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
						<b>ACUL065</b> 42mm Bridge Packer
SA						
KL						
HP						
SSC						
SMC						
WP						
BL	✓					
PC						
	<b>ACUL077</b>  Infill Foam	1	each	ETD410		
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	✓
					PC	
						<b>ACUL078</b>  Infill Foam
SA						
KL						
HP						
SSC						
SMC						
WP						
BL	✓					
PC						
	<b>ACUL080</b>  Infill Foam	1	each	ETD430 ETD4301		
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	✓
					PC	
					<p>T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm</p> <p>Screw (Grub)</p>	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome

**ACCESSORIES : PHOTOS & DRAWINGS**

Image	Part Code	Pack	Unit	Application	Colour	
	<b>ACUL081</b>  Infill Foam	<b>1</b>	<b>each</b>	<b>ETD404</b>	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	✓
					PC	
						<b>ACUL210A</b>  Mechanical Cleat
SA						
KL						
HP						
SSC						
SMC						
WP						
BL						
PC						
	<b>ACUL210B</b>  Mechanical Cleat	<b>24</b>	<b>pack</b>	<b>ETD410</b> <b>ETD412</b>		
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
						<b>ACSH038N</b>  5 x 10mm Woolpile (Grey)
SA						
KL						
HP						
SSC						
SMC						
WP						
BL						
PC						
	<b>ACUL222</b>  Mechanical Cleat	<b>24</b>	<b>pack</b>	<b>ETD422</b> <b>ETD4202</b>		
					SA	
					KL	
					HP	
					SSC	
					SMC	
					WP	
					BL	
					PC	
					 <p>T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm</p>	<b>MF</b> = Mill Finish <b>SA</b> = Silver Anodised <b>KL</b> = Basic Colour <b>HP</b> = Special Colour <b>SSC</b> = Smooth Satin Chrome <b>SMC</b> = Smokey Chrome <b>PC</b> = Polished Chrome

ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour
	<b>ACUL224</b>  Mechanical Cleat	24	pack	<b>ETD4204</b> <b>ETD4205</b> <b>ETD424</b>	MF <input checked="" type="checkbox"/>
					SA <input type="checkbox"/>
					KL <input type="checkbox"/>
					HP <input type="checkbox"/>
					SSC <input type="checkbox"/>
					SMC <input type="checkbox"/>
					WP <input type="checkbox"/>
					BL <input type="checkbox"/>
					PC <input type="checkbox"/>
					PC <input type="checkbox"/>
	<b>ACUL225</b>  Mechanical Cleat	24	pack	<b>ETD4203</b> <b>ETD4205</b> <b>ETD424</b> <b>ETD425</b>	MF <input checked="" type="checkbox"/>
					SA <input type="checkbox"/>
					KL <input type="checkbox"/>
					HP <input type="checkbox"/>
					SSC <input type="checkbox"/>
					SMC <input type="checkbox"/>
					WP <input type="checkbox"/>
					BL <input type="checkbox"/>
					PC <input type="checkbox"/>
					PC <input type="checkbox"/>
	<b>ACUL242</b>  Aluminium Finger Bolt Guide	1	each	<b>ACPD846</b> <b>ACPD847</b> <b>ACPD848</b>	MF <input checked="" type="checkbox"/>
					SA <input type="checkbox"/>
					KL <input type="checkbox"/>
					HP <input type="checkbox"/>
					SSC <input type="checkbox"/>
					SMC <input type="checkbox"/>
					WP <input type="checkbox"/>
					BL <input type="checkbox"/>
					PC <input type="checkbox"/>
					PC <input type="checkbox"/>
	<b>ACUL250</b>  Door Hinge	1	each	<b>ETD410</b> <b>ETD4204</b> <b>ETD4205</b> <b>ETD424</b>	MF <input checked="" type="checkbox"/>
					SA <input type="checkbox"/>
					KL <input type="checkbox"/>
					HP <input type="checkbox"/>
					SSC <input type="checkbox"/>
					SMC <input type="checkbox"/>
					WP <input type="checkbox"/>
					BL <input type="checkbox"/>
					PC <input type="checkbox"/>
					PC <input type="checkbox"/>
	<b>ACUL260</b>  Door Hinge	1	each	<b>ETD412</b> <b>ETD4202</b> <b>ETD4203</b> <b>ETD422</b>	MF <input checked="" type="checkbox"/>
					SA <input type="checkbox"/>
					KL <input type="checkbox"/>
					HP <input type="checkbox"/>
					SSC <input type="checkbox"/>
					SMC <input type="checkbox"/>
					WP <input type="checkbox"/>
					BL <input type="checkbox"/>
					PC <input type="checkbox"/>
					PC <input type="checkbox"/>
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	<b>MF</b> = Mill Finish <b>SA</b> = Silver Anodised <b>KL</b> = Basic Colour <b>HP</b> = Special Colour <b>SSC</b> = Smooth Satin Chrome <b>SMC</b> = Smokey Chrome <b>PC</b> = Polished Chrome	<b>W</b> = White <b>Z</b> = Black		



ACCESSORIES : PHOTOS & DRAWINGS

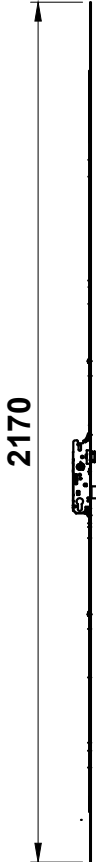

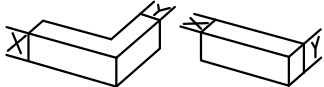
Image	Part Code	Pack	Unit	Application	Colour																		
	<p><b>ACUL276</b></p> <p>Secondary Door Lock</p>	1	Pack	<p><b>ACDV251</b> <b>ACDV737</b> <b>ACDV738</b> <b>ACET480</b> <b>ACET484</b> <b>ACET486</b> <b>ACET487</b> <b>ACSM015SS</b> <b>ACSM040SS</b> <b>ACUL279</b></p>	<table border="1"> <tr><td>MF</td><td><input checked="" type="checkbox"/></td></tr> <tr><td>SA</td><td><input type="checkbox"/></td></tr> <tr><td>KL</td><td><input type="checkbox"/></td></tr> <tr><td>HP</td><td><input type="checkbox"/></td></tr> <tr><td>SSC</td><td><input type="checkbox"/></td></tr> <tr><td>SMC</td><td><input type="checkbox"/></td></tr> <tr><td>WP</td><td><input type="checkbox"/></td></tr> <tr><td>BL</td><td><input type="checkbox"/></td></tr> <tr><td>PC</td><td><input type="checkbox"/></td></tr> </table>	MF	<input checked="" type="checkbox"/>	SA	<input type="checkbox"/>	KL	<input type="checkbox"/>	HP	<input type="checkbox"/>	SSC	<input type="checkbox"/>	SMC	<input type="checkbox"/>	WP	<input type="checkbox"/>	BL	<input type="checkbox"/>	PC	<input type="checkbox"/>
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 <p>T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm</p> <p>Screw (Grub)</p>	<p><b>MF = Mill Finish</b> <b>SA = Silver Anodised</b> <b>KL = Basic Colour</b> <b>HP = Special Colour</b> <b>SSC = Smooth Satin Chrome</b> <b>SMC = Smokey Chrome</b> <b>PC = Polished Chrome</b></p>	<p><b>WP = White</b> <b>BL = Black</b></p>																					

Image	Part Code	Pack	Unit	Application	Colour																		
	<p><b>ACUL277</b></p> <p>Lift Lever Primary Double Door Lock Left Hand Keep</p> <p>Kit includes:</p> <ul style="list-style-type: none"> <li>• 1 x Primary Double Door Lock</li> <li>• 1 x Left Hand Full Height Keep</li> </ul> <p>Viewed Externally</p>	1	Pack	<p>ACDV251</p> <p>ACDV737</p> <p>ACDV738</p> <p>ACET480</p> <p>ACET484</p> <p>ACET486</p> <p>ACET487</p> <p>ACSM015SS</p> <p>ACSM040SS</p> <p>ACUL276</p>	<table border="1"> <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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	<p><b>ACUL278</b></p> <p>Lift Lever Primary Double Door Lock Right Hand Keep</p> <p>Kit includes:</p> <ul style="list-style-type: none"> <li>• 1 x Primary Double Door Lock</li> <li>• 1 x Right Hand Full Height Keep</li> </ul> <p>Viewed Externally</p>	1	Pack	<p>ACDV251</p> <p>ACDV737</p> <p>ACDV738</p> <p>ACET480</p> <p>ACET484</p> <p>ACET486</p> <p>ACET487</p> <p>ACSM015SS</p> <p>ACSM040SS</p> <p>ACUL276</p>	<table border="1"> <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**

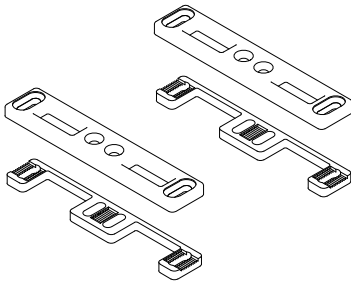
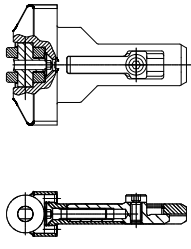
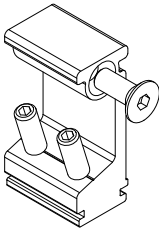
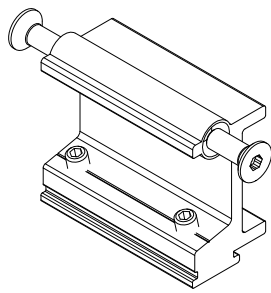

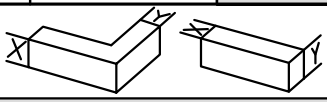
Image	Part Code	Pack	Unit	Application	Colour
	<b>ACUL279</b>  <b>Double Door Keep Kit</b> Kit contains: <b>2 x Keeps</b> <b>2 x Base Plates</b>	1	Kit	<b>ACDV737</b> <b>ACDV738</b> <b>ETD410</b> <b>ETD412</b> <b>ETD490</b> <b>ETD491</b> <b>ETD492</b> <b>ETD493</b> <b>ETD495</b> <b>ETD497</b>	MF <input checked="" type="checkbox"/>
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	<b>ACUL291</b>  <b>Roller Latch</b>	1	Each	<b>ACUL282</b> <b>ACUL283</b> <b>ACUL362</b> <b>ACUL363</b> <b>ACUL382</b> <b>ACUL383</b>	MF <input checked="" type="checkbox"/>
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	<b>ACUL295</b>  <b>Low Threshold Bracket</b>	1	Pair	<b>ETD490</b> <b>ETD491</b> <b>ETD492</b> <b>ETD493</b> <b>ETD495</b> <b>ETD497</b>	MF <input checked="" type="checkbox"/>
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					WP <input type="checkbox"/>
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	<b>ACUL299</b>  <b>Transom/Mullion Bracket</b>	10	Pack	<b>ETD430</b>	MF <input checked="" type="checkbox"/>
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					SMC <input type="checkbox"/>
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					BL <input type="checkbox"/>
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	<b>MF = Mill Finish</b> <b>SA = Silver Anodised</b> <b>KL = Basic Colour</b> <b>HP = Special Colour</b> <b>SSC = Smooth Satin Chrome</b> <b>SMC = Smokey Chrome</b> <b>PC = Polished Chrome</b>	<b>WP = White</b> <b>BL = Black</b>		MF <input type="checkbox"/>	
				SA <input type="checkbox"/>	
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				SSC <input type="checkbox"/>	
				SMC <input type="checkbox"/>	
				WP <input type="checkbox"/>	
				BL <input type="checkbox"/>	
				PC <input type="checkbox"/>	

Image	Part Code	Pack	Unit	Application	Colour																		
	<p><b>Slam Lock Left Hand Keep</b></p> <p><b>ACUL360</b> Short Kit includes:  <ul style="list-style-type: none"> <li>• 1 x Short Slam Multi Point Lock</li> <li>• 1 x Short Left Hand full height keep</li> <li>• 2 x Release Magnets</li> </ul> </p> <p><b>ACUL280</b> Standard Kit includes:  <ul style="list-style-type: none"> <li>• 1 x Slam Multi Point Lock</li> <li>• 1 x Left Hand full height Keep</li> <li>• 2 x Release Magnets</li> </ul> </p> <p><b>ACUL380</b> Tall Kit includes:  <ul style="list-style-type: none"> <li>• 1 x Tall Slam Multi Point Lock</li> <li>• 1 x Tall Left Hand full height keep</li> <li>• 2 x Release Magnets</li> </ul> </p> <p><b>Viewed Externally</b></p> <p><b>Left Hand Open Out</b>      <b>Right Hand Open In</b></p>	1	Pack	<b>ACSM015SS</b> <b>ACSM020SS</b> <b>ACSM021SS</b>	<table border="1"> <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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Image	Part Code	Pack	Unit	Application	Colour																		
	<p><b>Slam Lock Right Hand Keep</b></p> <p><b>ACUL361</b> Short Kit includes:</p> <ul style="list-style-type: none"> <li>• 1 x Short Slam Multi Point Lock</li> <li>• 1 x Short Right Hand full height keep</li> <li>• 2 x Release Magnets</li> </ul> <p><b>ACUL281</b> Standard Kit includes:</p> <ul style="list-style-type: none"> <li>• 1 x Slam Multi Point Lock</li> <li>• 1 x Right Hand full height Keep</li> <li>• 2 x Release Magnets</li> </ul> <p><b>ACUL381</b> Tall Kit includes:</p> <ul style="list-style-type: none"> <li>• 1 x Tall Slam Multi Point Lock</li> <li>• 1 x Tall Right Hand full height keep</li> <li>• 2 x Release Magnets</li> </ul> <p><b>Viewed Externally</b></p> <p>Left Hand Open In      Right Hand Open Out</p>	1	Pack	<b>ACSM015SS</b> <b>ACSM020SS</b> <b>ACSM021SS</b>	<table border="1"> <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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Image	Part Code	Pack	Unit	Application	Colour																		
	<p><b>Key Wind Left Hand Keep</b></p> <p><b>ACUL362</b> Short Kit includes: • 1 x Short key wind multi point lock • 1 x Short Left Hand full height keep</p> <p><b>ACUL282</b> Standard Kit includes: • 1 x Keywind Multi Point Lock • 1 x Left Hand full height Keep</p> <p><b>ACUL382</b> Tall Kit includes: • 1 x Tall key wind multi point lock • 1 x Tall Left Hand full height keep</p> <p><b>Viewed Externally</b></p> <p>Left Hand Open Out      Right Hand Open In</p>	1	Pack	<p><b>ACDV251</b> <b>ACDV737</b> <b>ACDV738</b> <b>ACET480</b> <b>ACET484</b> <b>ACET486</b> <b>ACET487</b> <b>ACSM015SS</b> <b>ACSM040SS</b></p>	<table border="1"> <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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<p>T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm</p> <p>Screw (Grub)</p>	<p>MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome</p>	<p>WP = White BL = Black</p>																					

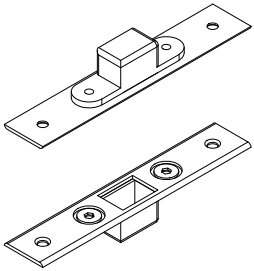
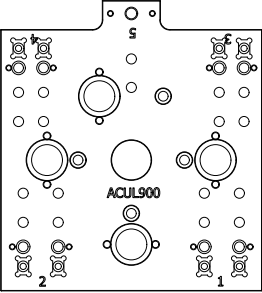


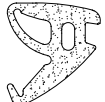

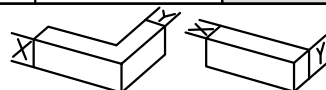
Image	Part Code	Pack	Unit	Application	Colour																		
	<p><b>Key Wind Right Hand Keep</b></p> <p><b>ACUL363</b> Short Kit includes:</p> <ul style="list-style-type: none"> <li>• 1 x Short key wind multi point lock</li> <li>• 1 x Short Right Hand full height keep</li> </ul> <p><b>ACUL283</b> Standard Kit includes:</p> <ul style="list-style-type: none"> <li>• 1 x Lift Lever Multi Point Lock</li> <li>• 1 x Right Hand full height Keep</li> </ul> <p><b>ACUL383</b> Tall Kit includes:</p> <ul style="list-style-type: none"> <li>• 1 x Tall key wind multi point lock</li> <li>• 1 x Tall Right Hand full height keep</li> </ul> <p><b>Viewed Externally</b></p> <p>Left Hand Open In      Right Hand Open Out</p>	1	Pack	<p><b>ACDV251</b> <b>ACDV737</b> <b>ACDV738</b> <b>ACET480</b> <b>ACET484</b> <b>ACET486</b> <b>ACET487</b> <b>ACSM015SS</b> <b>ACSM040SS</b></p>	<table border="1"> <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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	<p><b>Lift Lever Left Hand Keep</b></p> <p><b>ACUL377</b> Short Kit includes: • 1 x Lift Lever Lock • 1 x Left Hand Full Height Keep</p> <p><b>ACUL272</b> Standard Kit includes: • 1 x Lift Lever Lock • 1 x Left Hand Full Height Keep</p> <p><b>ACUL374</b> Tall Kit includes: • 1 x Lift Lever Lock • 1 x Left Hand Full Height Keep</p> <p><b>Viewed Externally</b></p> <p><b>Left Hand Open Out      Right Hand Open In</b></p>	1	Pack	<p><b>ACDV251</b> <b>ACET480</b> <b>ACET484</b> <b>ACET486</b> <b>ACET487</b> <b>ACUL276</b></p>	<table border="1"> <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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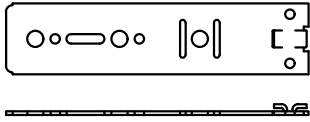


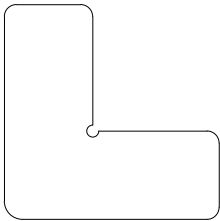
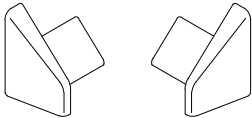


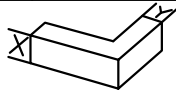
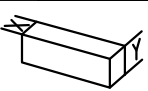


Image	Part Code	Pack	Unit	Application	Colour																		
	<p><b>Lift Lever Right Hand Keep</b></p> <p><b>ACUL378</b> Short Kit includes: • 1 x Lift Lever Lock • 1 x Right Hand Full Height Keep</p> <p><b>ACUL273</b> Standard Kit includes: • 1 x Lift Lever Lock • 1 x Right Hand Full Height Keep</p> <p><b>ACUL375</b> Tall Kit includes: • 1 x Lift Lever Lock • 1 x Right Hand Full Height Keep</p> <p><b>Viewed Externally</b></p> <p>Left Hand Open In      Right Hand Open Out</p>	1	Pack	<p><b>ACDV251</b> <b>ACET480</b> <b>ACET484</b> <b>ACET486</b> <b>ACET487</b> <b>ACUL276</b></p>	<table border="1"> <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
	<b>ACUL390</b> Finger Bolt Flat Keep	1	Pair	<b>All Locks Excluding ACUL276 ACUL277 ACUL278</b>	MF <input checked="" type="checkbox"/> SA <input type="checkbox"/> KL <input type="checkbox"/> HP <input type="checkbox"/> SSC <input type="checkbox"/> SMC <input type="checkbox"/> WP <input type="checkbox"/> BL <input type="checkbox"/> PC <input type="checkbox"/>
	<b>ACUL900</b> Punch Tool	1	each	<b>ETD402 ETD404 ETD410 ETD412 ETD4202 ETD4203 ETD4204 ETD4205 ETD422 ETD424</b>	MF <input checked="" type="checkbox"/> SA <input type="checkbox"/> KL <input type="checkbox"/> HP <input type="checkbox"/> SSC <input type="checkbox"/> SMC <input type="checkbox"/> WP <input type="checkbox"/> BL <input type="checkbox"/> PC <input type="checkbox"/>
	<b>ACUL950</b> Drill Jig for Hinges	1	each	<b>ACUL250 ETD410 ETD424 ETD4204 ETD4205</b>	MF <input type="checkbox"/> SA <input type="checkbox"/> KL <input type="checkbox"/> HP <input type="checkbox"/> SSC <input type="checkbox"/> SMC <input type="checkbox"/> WP <input type="checkbox"/> BL <input type="checkbox"/> PC <input type="checkbox"/>
	<b>ACUN033</b> 3 - 5mm Glazing Gasket	100	m		MF <input type="checkbox"/> SA <input type="checkbox"/> KL <input type="checkbox"/> HP <input type="checkbox"/> SSC <input type="checkbox"/> SMC <input type="checkbox"/> WP <input type="checkbox"/> BL <input checked="" type="checkbox"/> PC <input type="checkbox"/>
	<b>ACUN036</b> 6 - 8mm Glazing Gasket	100	m		MF <input type="checkbox"/> SA <input type="checkbox"/> KL <input type="checkbox"/> HP <input type="checkbox"/> SSC <input type="checkbox"/> SMC <input type="checkbox"/> WP <input type="checkbox"/> BL <input checked="" type="checkbox"/> PC <input type="checkbox"/>
	<b>MF = Mill Finish</b> <b>SA = Silver Anodised</b> <b>KL = Basic Colour</b> <b>HP = Special Colour</b> <b>SSC = Smooth Satin Chrome</b> <b>SMC = Smokey Chrome</b> <b>PC = Polished Chrome</b>	<b>WP = White</b> <b>BL = Black</b>			

ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour
	<b>ACUN23X</b>  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 <input checked="" type="checkbox"/>
					SA <input type="checkbox"/>
	<b>ACUN3035</b>  Door Gasket	100	m		KL <input type="checkbox"/>
					HP <input type="checkbox"/>
	<b>ACVG31N</b>  3mm Glazing Gasket	200	m		SSC <input type="checkbox"/>
					SMC <input type="checkbox"/>
	<b>ACVG520</b>  Stainless Steel Chevron	100	pack	ETD4204	WP <input type="checkbox"/>
					BL <input checked="" type="checkbox"/>
	<b>ACVL059</b>  End Caps	1	Pair	VL72	PC <input type="checkbox"/>
					WP <input checked="" type="checkbox"/>
 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**

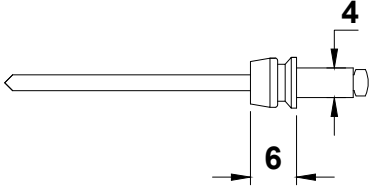
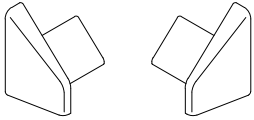
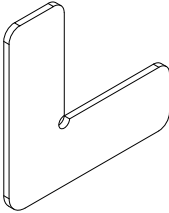

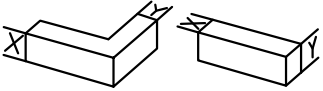
Image	Part Code	Pack	Unit	Application	Colour
	<b>ACVL061</b> Rivet to secure VL72	<b>100</b>	<b>Pack</b>	<b>VL72</b>	MF <input checked="" type="checkbox"/>
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					KL <input type="checkbox"/>
					HP <input type="checkbox"/>
					SSC <input type="checkbox"/>
					SMC <input type="checkbox"/>
					WP <input type="checkbox"/>
					BL <input type="checkbox"/>
					PC <input type="checkbox"/>
					PC <input type="checkbox"/>
	<b>ACVL072</b> Cast End Caps	<b>1</b>	<b>Pair</b>	<b>VL72</b>	MF <input checked="" type="checkbox"/>
					SA <input type="checkbox"/>
					KL <input checked="" type="checkbox"/>
					HP <input checked="" type="checkbox"/>
					SSC <input type="checkbox"/>
					SMC <input type="checkbox"/>
					WP <input checked="" type="checkbox"/>
					BL <input checked="" type="checkbox"/>
					PC <input type="checkbox"/>
					PC <input type="checkbox"/>
	<b>WCA106SSZ</b> Stainless Steel Chevrons	<b>50</b>	<b>pack</b>	<b>ETD402</b> <b>ETD4202</b> <b>ETD4203</b> <b>ETD4204</b> <b>ETD4205</b> <b>ETD422</b> <b>ETD424</b>	MF <input checked="" type="checkbox"/>
					SA <input type="checkbox"/>
					KL <input type="checkbox"/>
					HP <input type="checkbox"/>
					SSC <input type="checkbox"/>
					SMC <input type="checkbox"/>
					WP <input type="checkbox"/>
					BL <input type="checkbox"/>
					PC <input type="checkbox"/>
					PC <input type="checkbox"/>
					MF <input type="checkbox"/>
					SA <input type="checkbox"/>
					KL <input type="checkbox"/>
					HP <input type="checkbox"/>
					SSC <input type="checkbox"/>
					SMC <input type="checkbox"/>
					WP <input type="checkbox"/>
					BL <input type="checkbox"/>
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					PC <input type="checkbox"/>
	<b>MF = Mill Finish</b> <b>SA = Silver Anodised</b> <b>KL = Basic Colour</b> <b>HP = Special Colour</b> <b>SSC = Smooth Satin Chrome</b> <b>SMC = Smokey Chrome</b> <b>PC = Polished Chrome</b>				WP <input type="checkbox"/>
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					SSC <input type="checkbox"/>
					SMC <input type="checkbox"/>
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					BL <input type="checkbox"/>
					PC <input type="checkbox"/>
					PC <input type="checkbox"/>
					





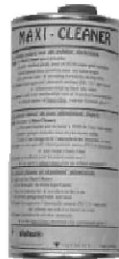


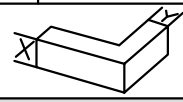
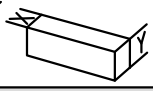
Image	Part Code	Pack	Unit	Application	Colour																		
	<b>ACMX09700</b>  <b>Alu. Polish</b>	<b>1</b>	<b>each</b>		<table border="1"> <tr><td>MF</td><td>✓</td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>WP</td><td></td></tr> <tr><td>BL</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF	✓	SA		KL		HP		SSC		SMC		WP		BL		PC	
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SSC																							
SMC																							
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	<b>ACMX09761</b>  <b>Maxi Gloss</b>	<b>1</b>	<b>each</b>		<table border="1"> <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>WP</td><td></td></tr> <tr><td>BL</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		WP		BL		PC	
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	<b>ACMX09762</b>  <b>Alu. Bright</b>	<b>1</b>	<b>each</b>		<table border="1"> <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>WP</td><td></td></tr> <tr><td>BL</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		WP		BL		PC	
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	<b>ACMX09763</b>  <b>Teflon Spray</b>	<b>1</b>	<b>each</b>		<table border="1"> <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>WP</td><td></td></tr> <tr><td>BL</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		WP		BL		PC	
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	<b>ACMX09764</b>  <b>Maxi Clean</b>	<b>1</b>	<b>each</b>		<table border="1"> <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>WP</td><td></td></tr> <tr><td>BL</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		WP		BL		PC	
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Image	Part Code	Pack	Unit	Application	Colour
	<b>ACMX09765</b>  <b>Glue Cleaner</b>  <b>De-grease and silicone remover (1 Litre).</b>	<b>1</b>	<b>each</b>		MF SA KL HP SSC SMC WP BL PC
	<b>ACMX09770</b>  <b>Roll &amp; Wrap 100mm</b>	<b>1</b>	<b>each</b>		MF SA KL HP SSC SMC WP BL PC
	<b>ACMX09775</b>  <b>Grip Handwrap</b>	<b>1</b>	<b>each</b>		MF SA KL HP SSC SMC WP BL PC
	<b>ACMX09801</b>  <b>Protective Tape 50mm</b>	<b>1</b>	<b>each</b>		MF SA KL HP SSC SMC WP BL PC
	<b>ACMX09802</b>  <b>Protective Tape 70mm</b>	<b>1</b>	<b>each</b>		MF SA KL HP SSC SMC WP BL PC
 <p>T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm</p>  <p>Screw (Grub)</p>	<p>MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome</p>	<p>WP = White BL = Black</p>	 		









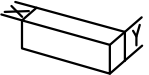



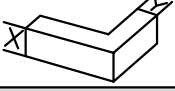
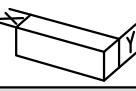
Image	Part Code	Pack	Unit	Application	Colour																		
	<b>ACMX09803</b> <b>Protective Tape 100mm</b>	<b>1</b>	<b>each</b>		<table border="1"> <tr><td>MF</td><td></td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>WP</td><td></td></tr> <tr><td>BL</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		WP		BL		PC	
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	<b>ACSIL04</b> <b>Sealing Glue</b> Order with suffix of KL colour (eg.ACSIL04KL005) or BL=Black/WP=White/ CL=Clear	<b>1</b>	<b>each</b>		<table border="1"> <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>WP</td><td>✓</td></tr> <tr><td>BL</td><td>✓</td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL	✓	HP		SSC		SMC		WP	✓	BL	✓	PC	
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	<b>ACSIL05</b> <b>Rubber Sealant</b>	<b>1</b>	<b>each</b>		<table border="1"> <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>WP</td><td></td></tr> <tr><td>BL</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		WP		BL		PC	
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BL																							
PC																							
	<b>ACSIL08</b> <b>Silicon Gun</b>	<b>1</b>	<b>each</b>		<table border="1"> <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>WP</td><td></td></tr> <tr><td>BL</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		WP		BL		PC	
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	<b>ACSIL013</b> <b>Glue for Mitre</b>	<b>1</b>	<b>each</b>		<table border="1"> <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>WP</td><td></td></tr> <tr><td>BL</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		WP		BL		PC	
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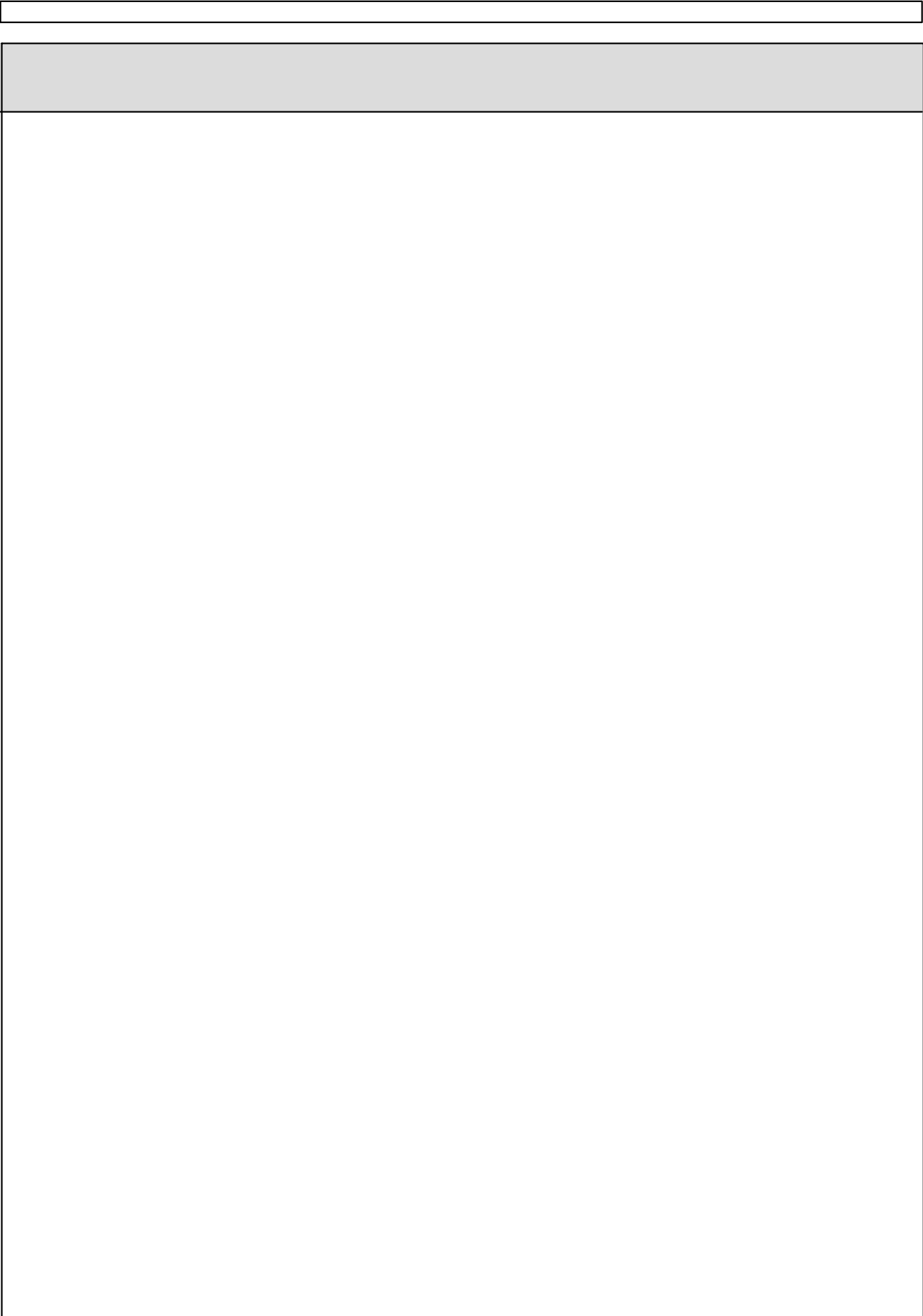
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					KL <input type="checkbox"/>	
					HP <input type="checkbox"/>	
					SSC <input type="checkbox"/>	
					SMC <input type="checkbox"/>	
					WP <input type="checkbox"/>	
					BL <input type="checkbox"/>	
					PC <input type="checkbox"/>	
	<b>ACUN3900</b>  <b>Gasket Roller</b>	<b>1</b>	<b>each</b>		MF <input type="checkbox"/>	
					SA <input type="checkbox"/>	
					KL <input type="checkbox"/>	
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					SMC <input type="checkbox"/>	
					WP <input type="checkbox"/>	
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					PC <input type="checkbox"/>	
	<b>MF = Mill Finish</b> <b>SA = Silver Anodised</b> <b>KL = Basic Colour</b> <b>HP = Special Colour</b> <b>SSC = Smooth Satin Chrome</b> <b>SMC = Smokey Chrome</b> <b>PC = Polished Chrome</b>				<b>WP = White</b> <b>BL = Black</b>	
					 	



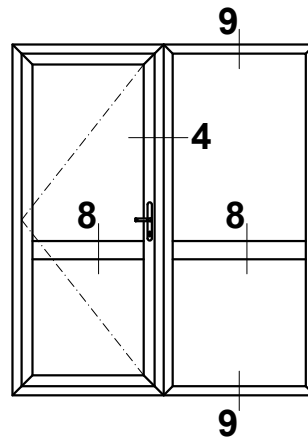
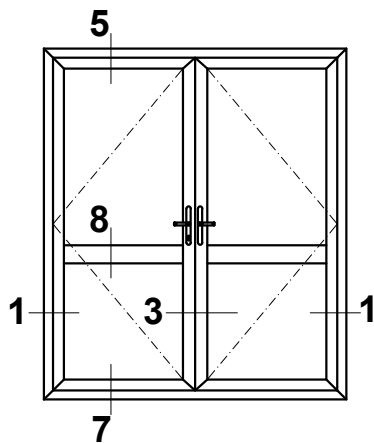
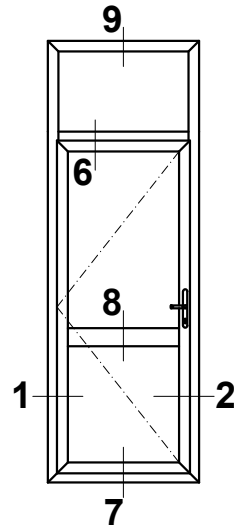
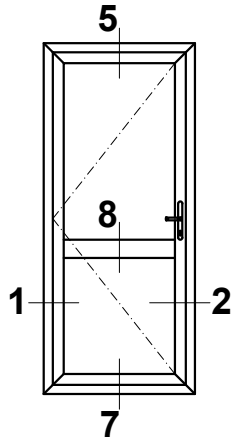
**Section C**

**Sections**

**Scale Elevations**

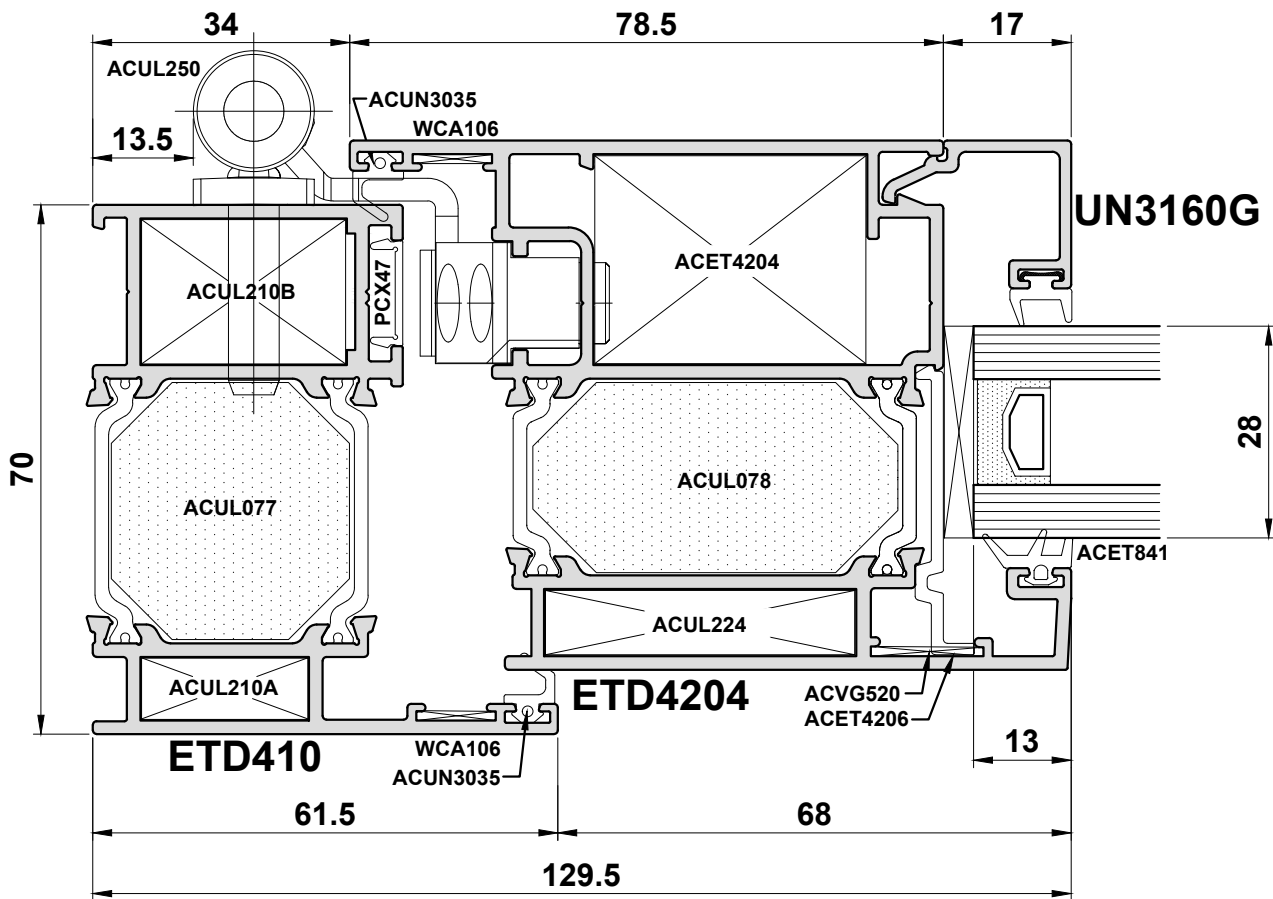
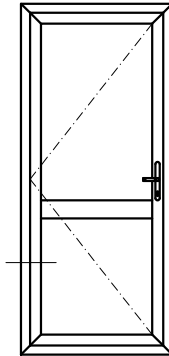


**Open In - Elevations**



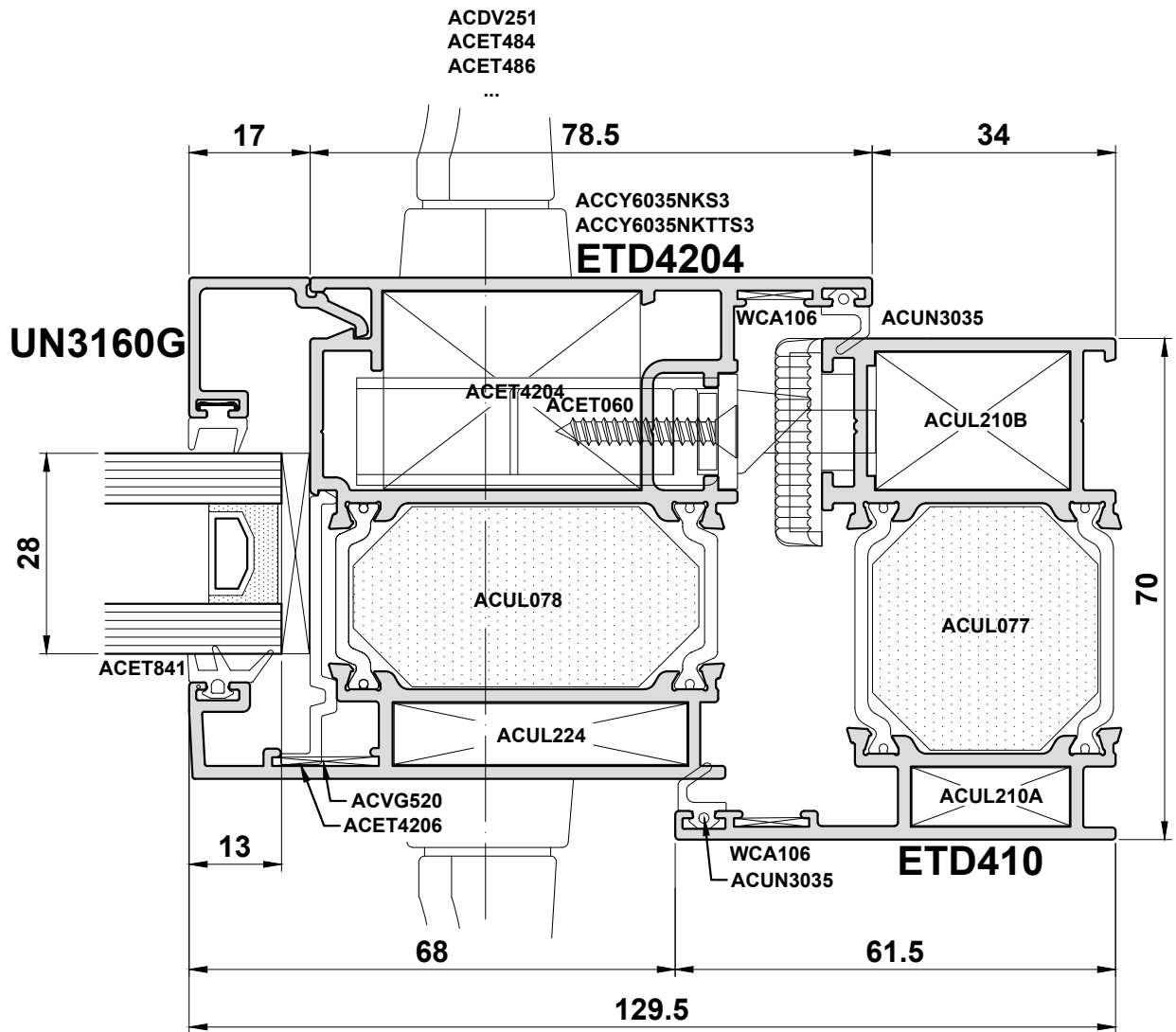
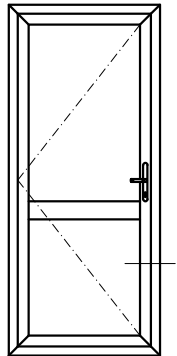
**Do Not Scale From This Drawing**

**Stepped Open In - Detail 1**



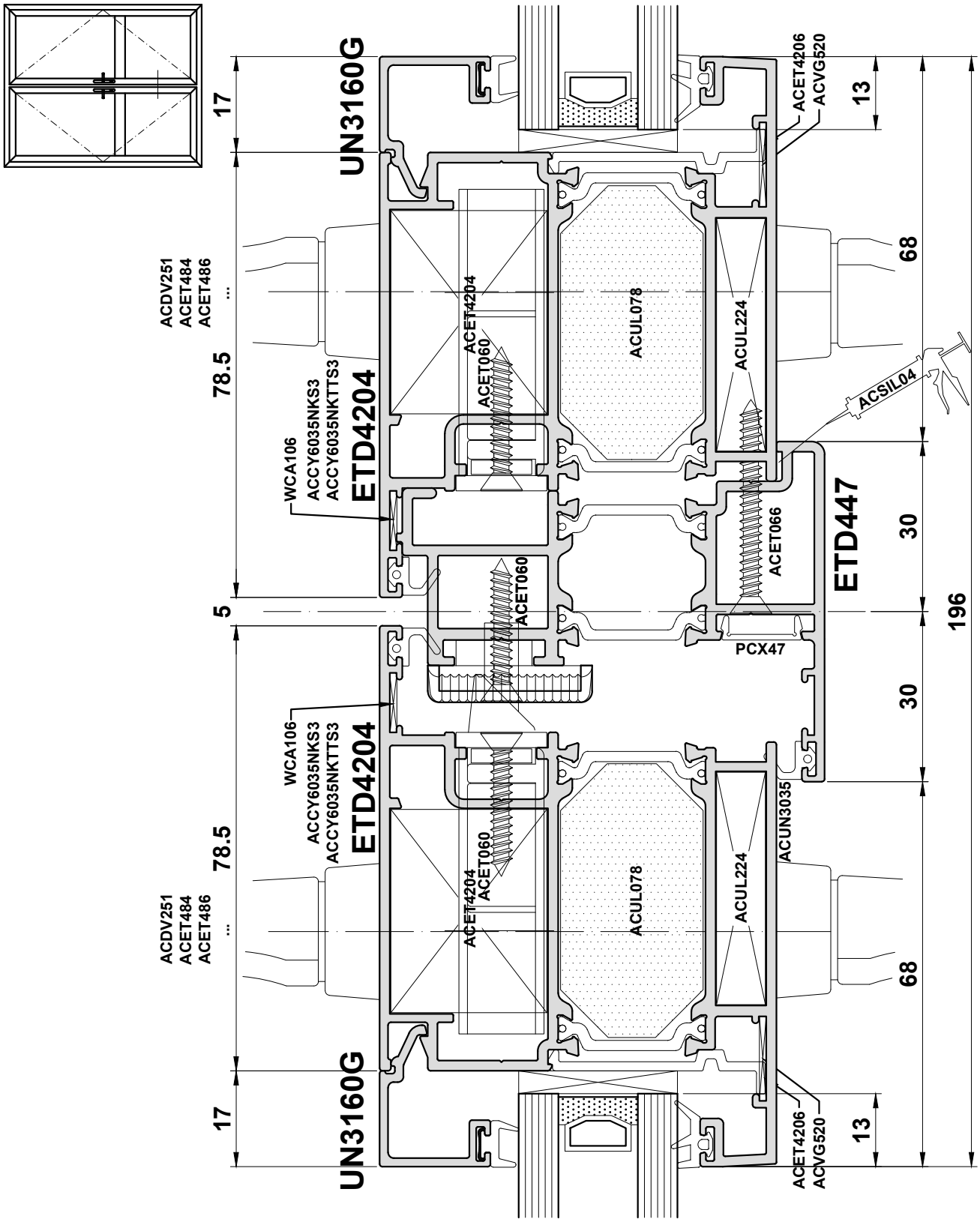
**Do Not Scale From This Drawing**

**Stepped Open In - Detail 2**



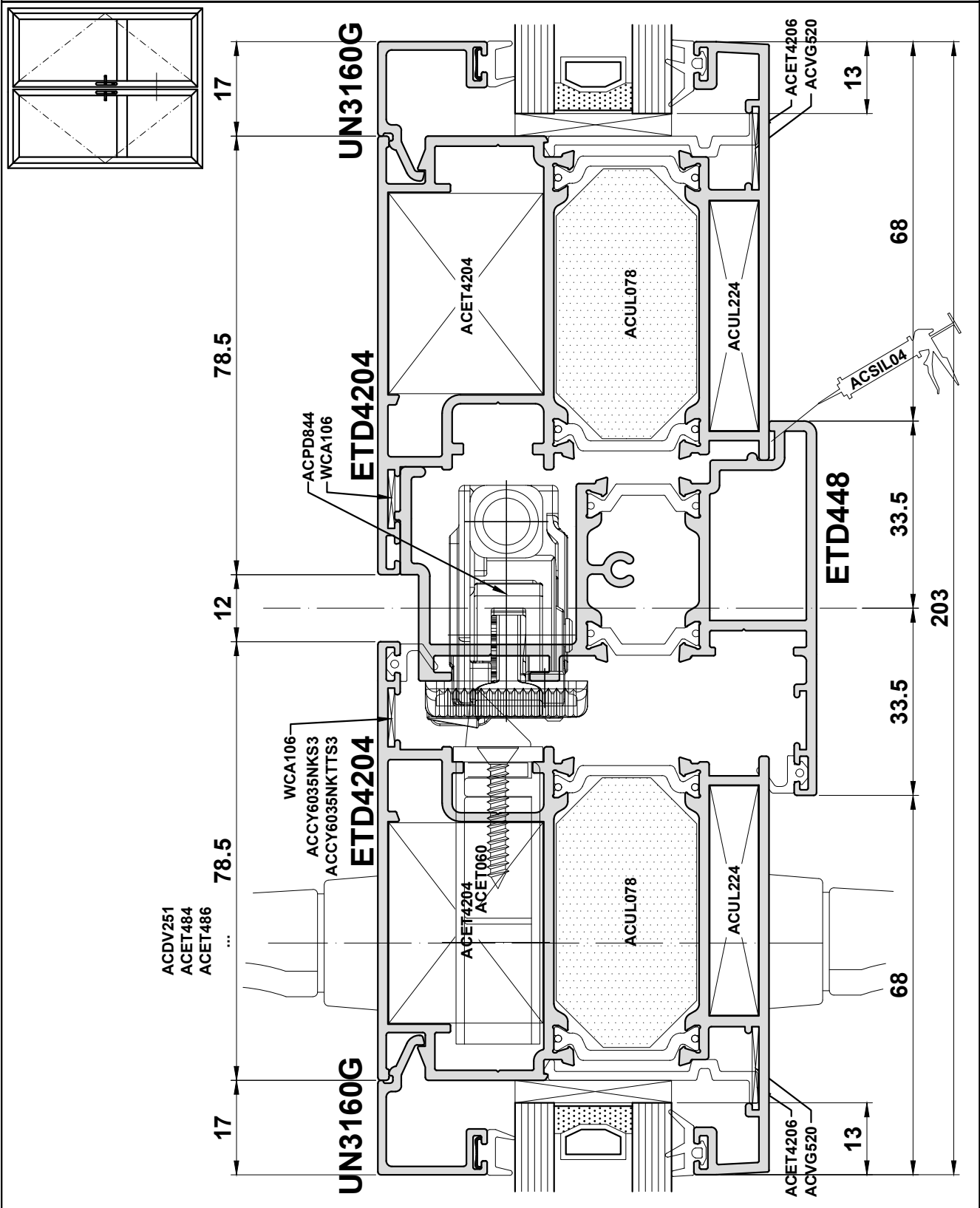
**Do Not Scale From This Drawing**

Stepped Open In - Detail 3A



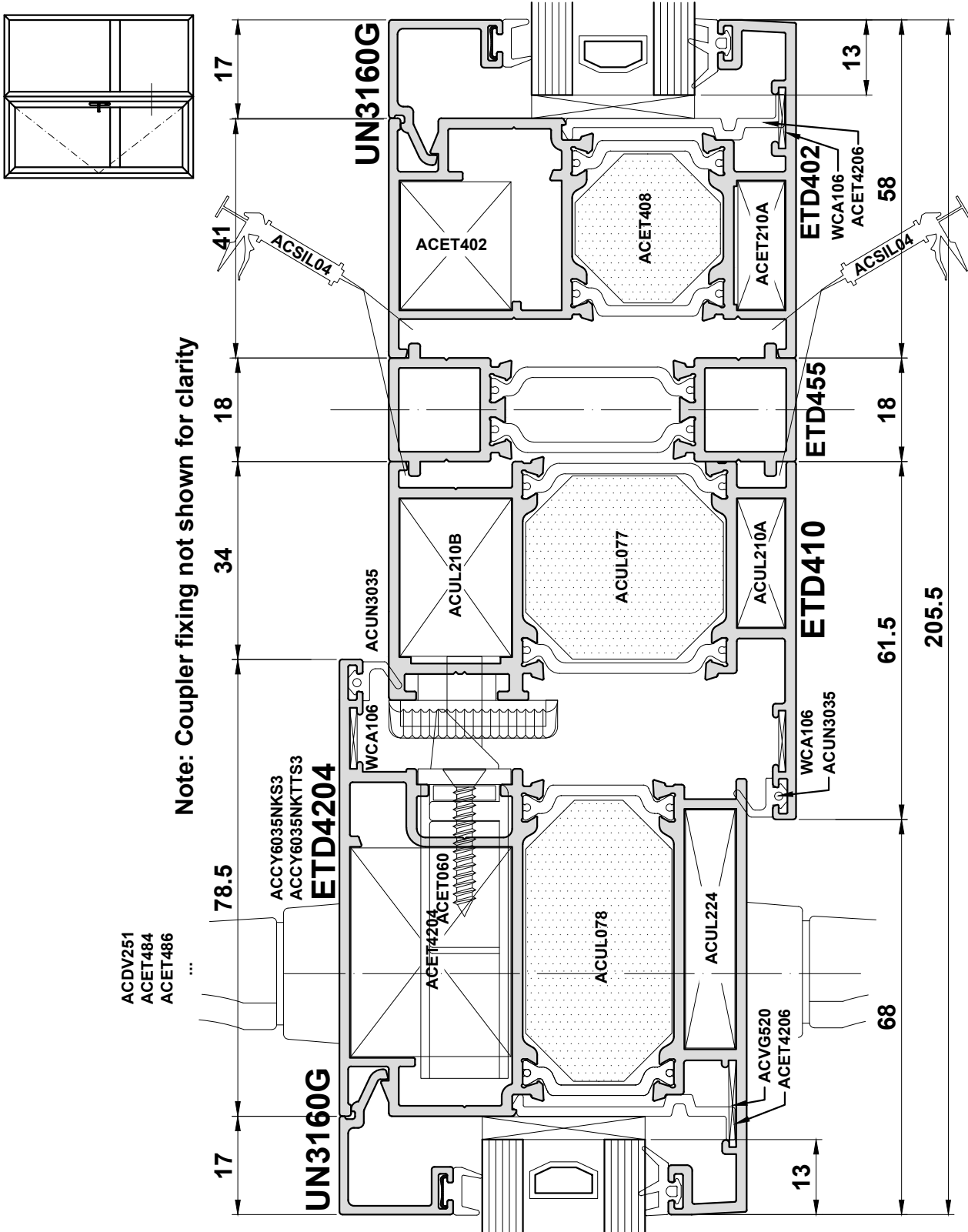
Do Not Scale From This Drawing

**Stepped Open In - Detail 3B**



**Do Not Scale From This Drawing**

Stepped Open In - Detail 4

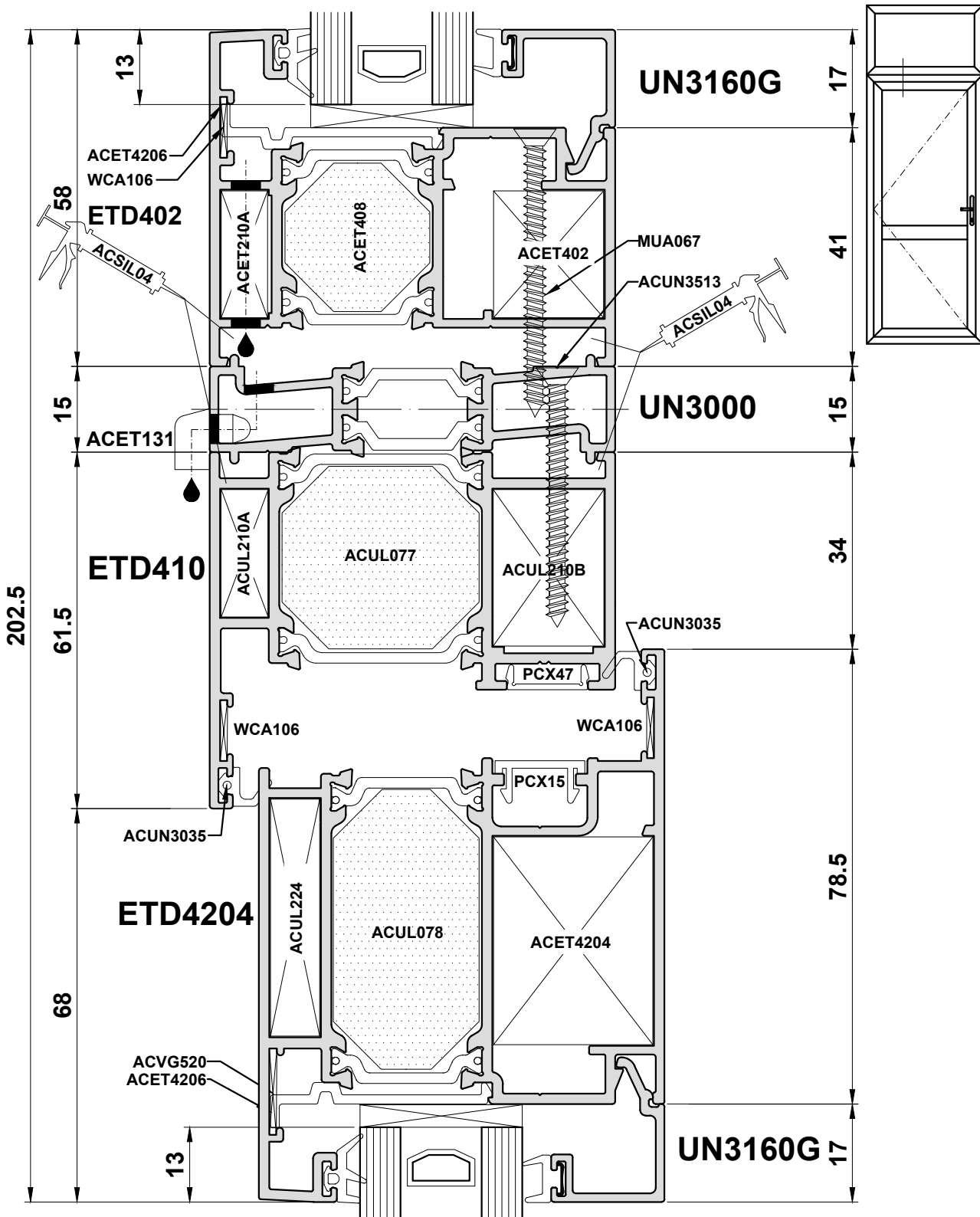


Do Not Scale From This Drawing



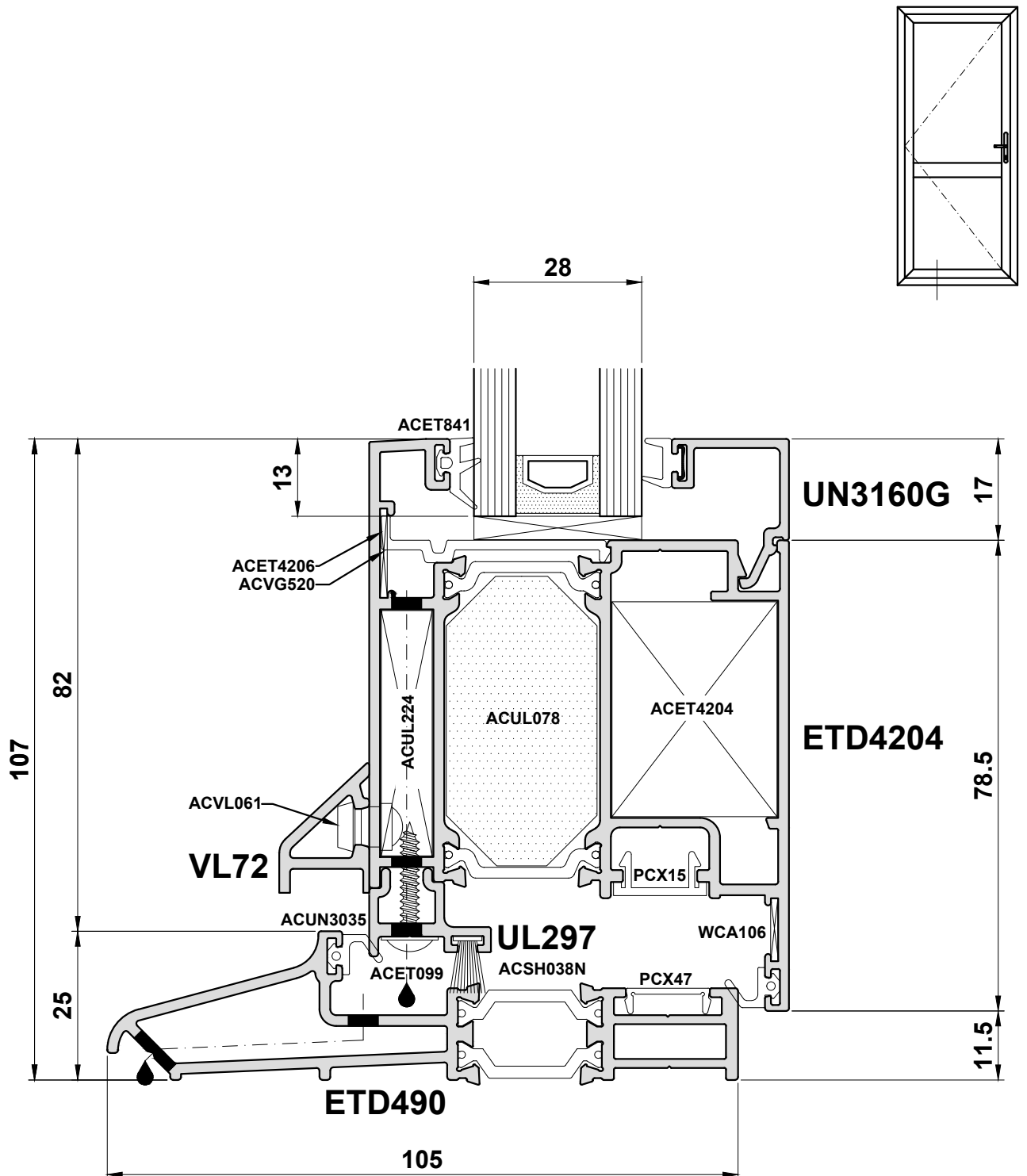


**Stepped Open In - Detail 6**



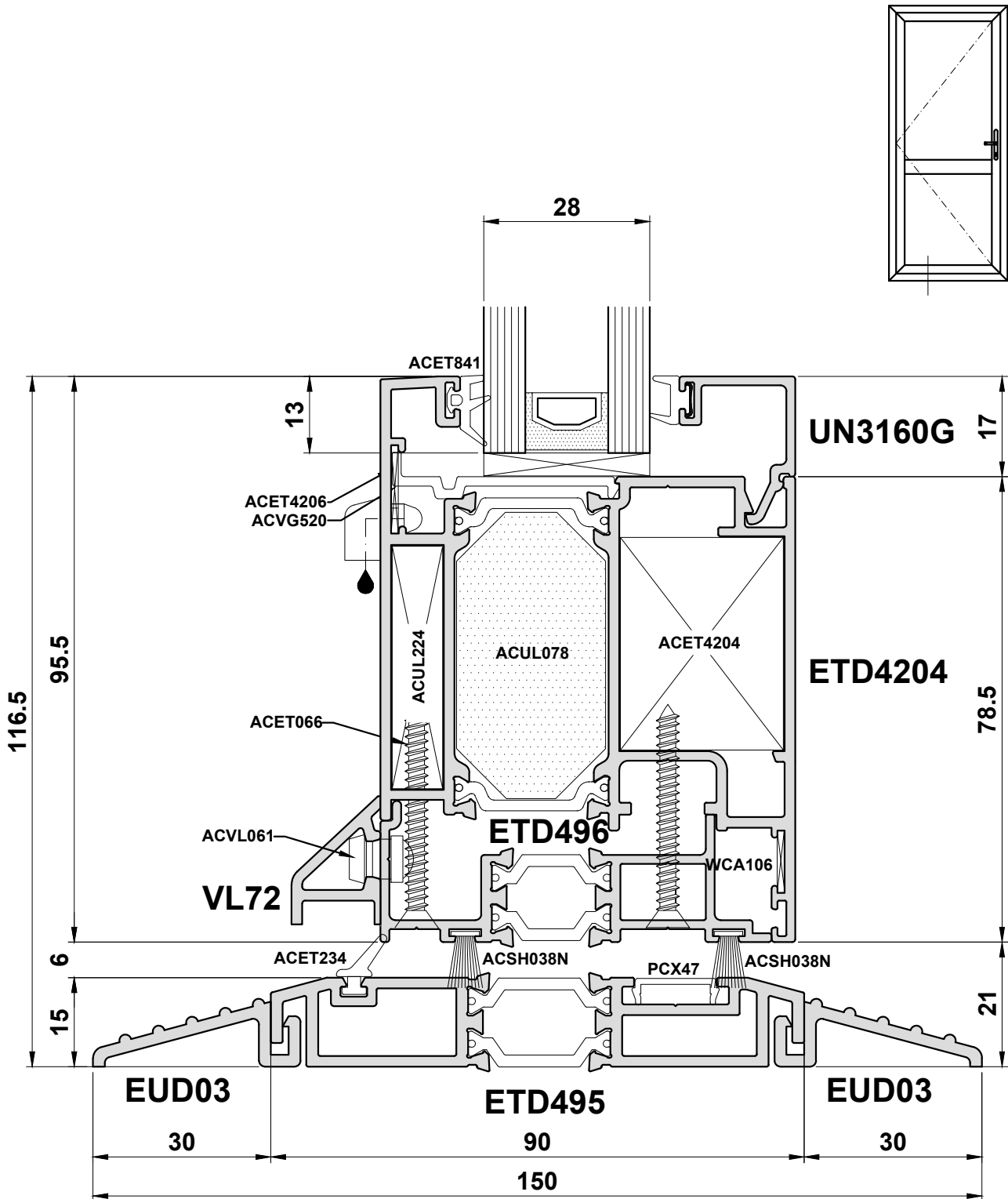
**Do Not Scale From This Drawing**

**Stepped Open In - Detail 7A**



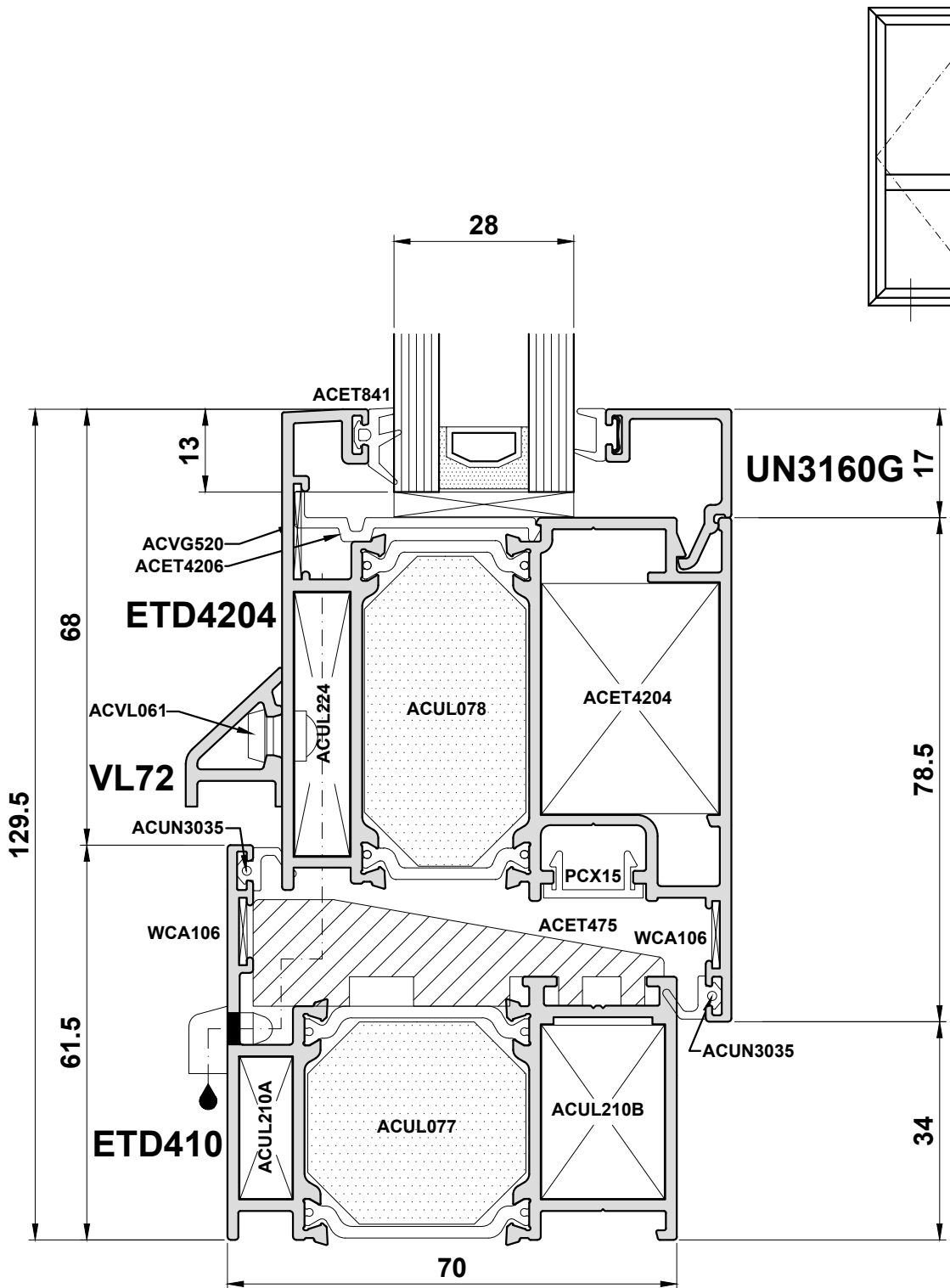
**Do Not Scale From This Drawing**

**Stepped Open In - Detail 7B**



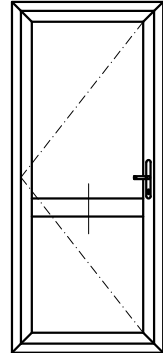
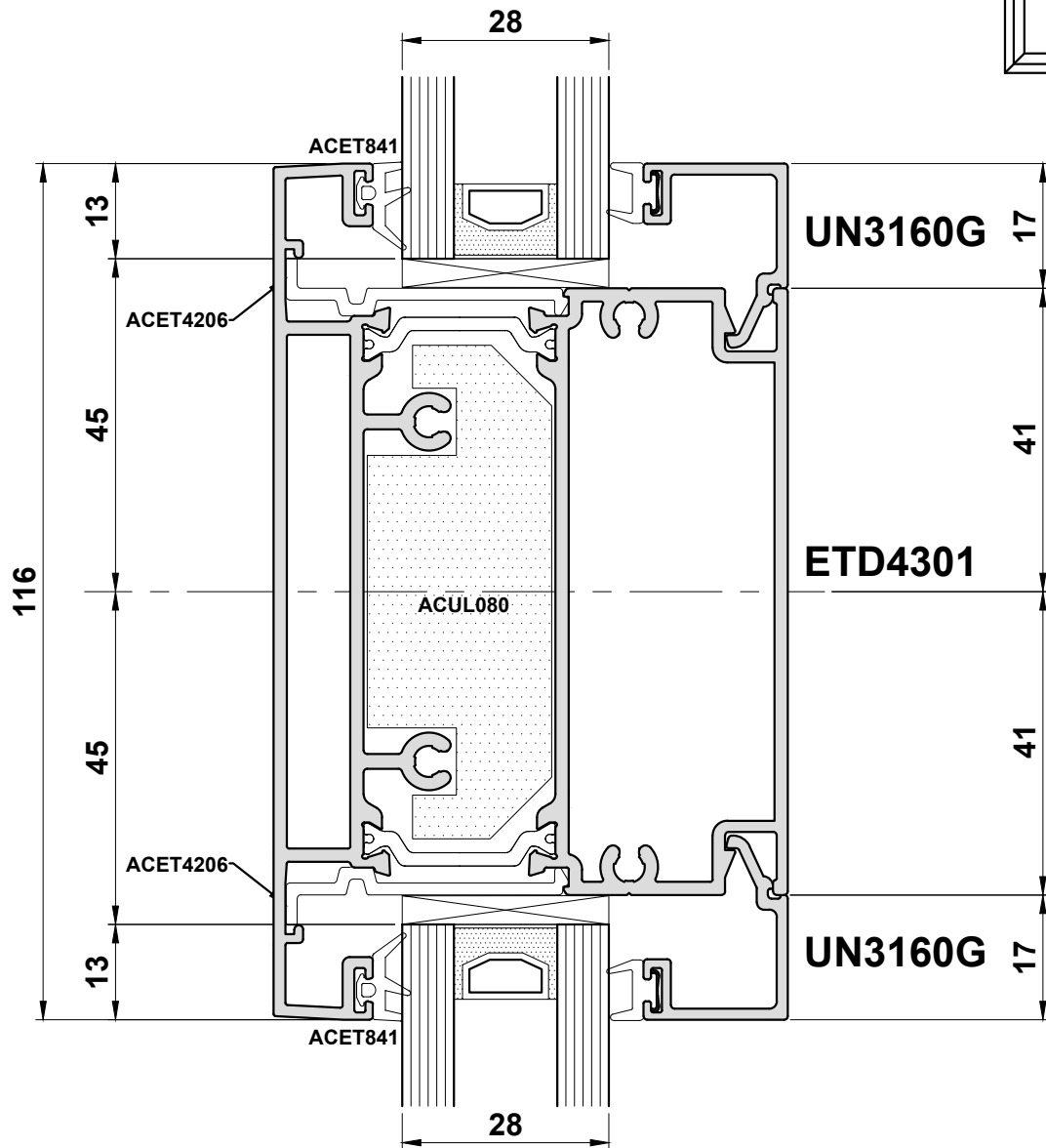
**Do Not Scale From This Drawing**

**Stepped Open In - Detail 7C**



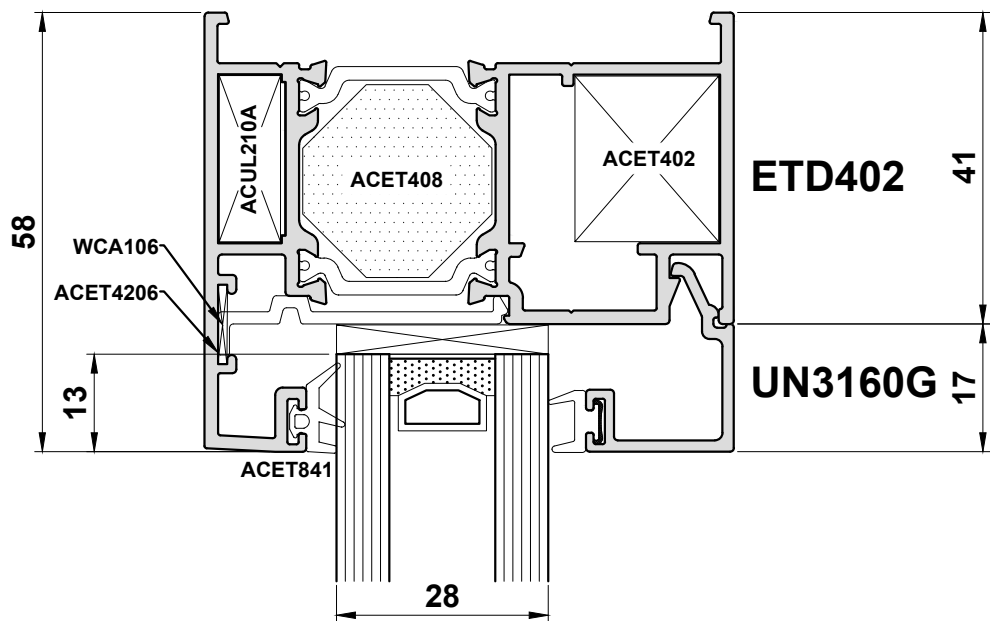
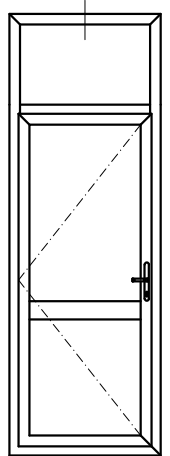
**Do Not Scale From This Drawing**

**Stepped Open In - Detail 8A**



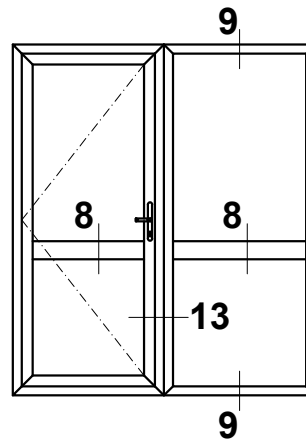
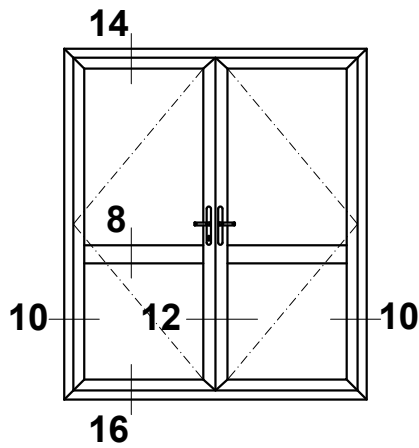
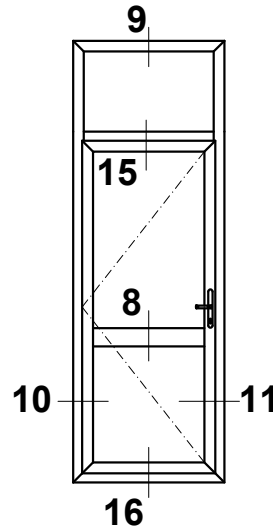
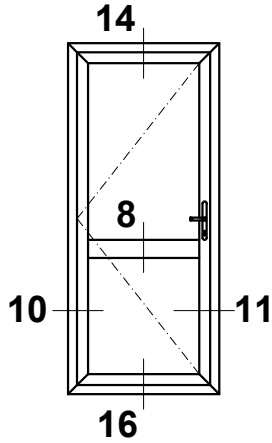
**Do Not Scale From This Drawing**

**Open In - Detail 9**



**Do Not Scale From This Drawing**

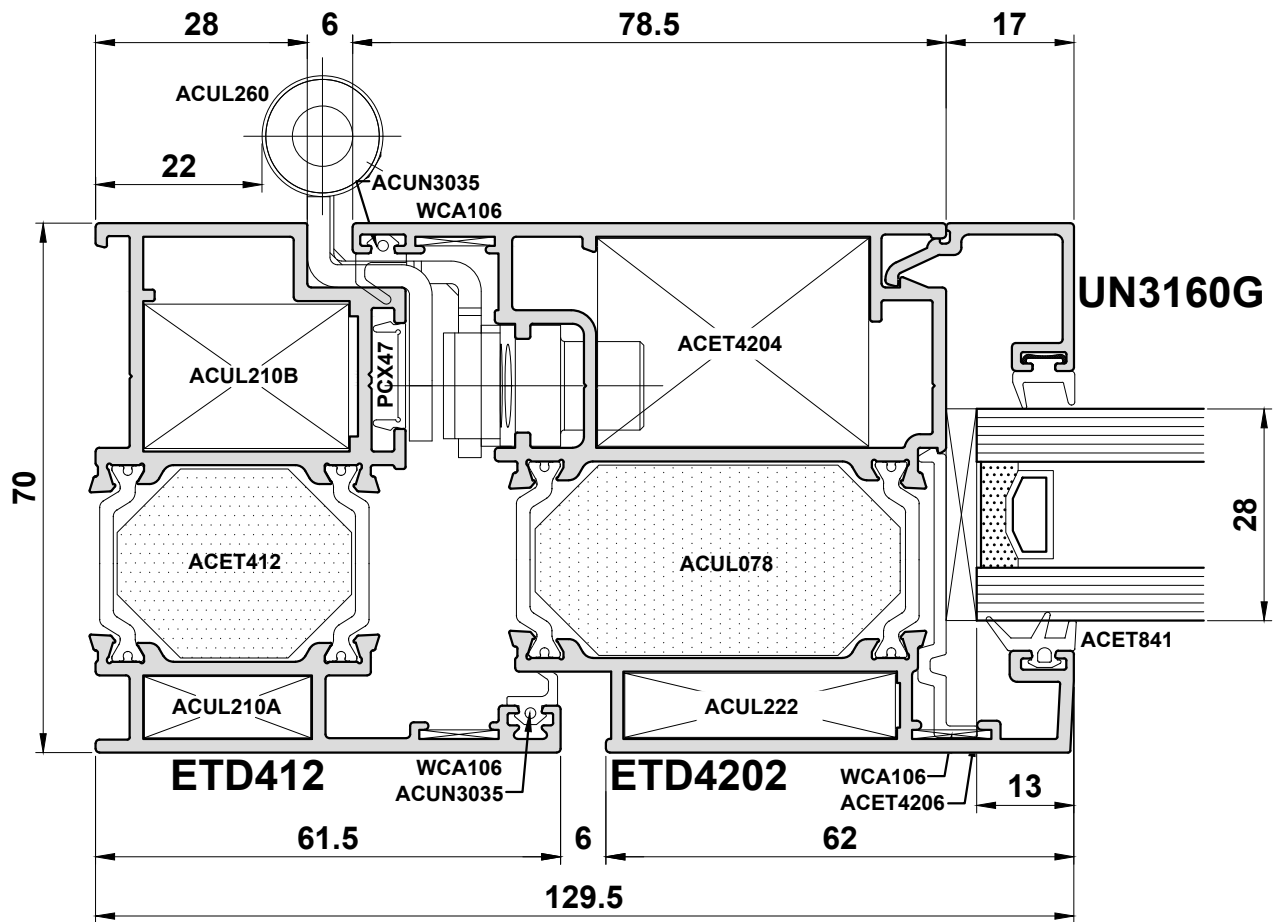
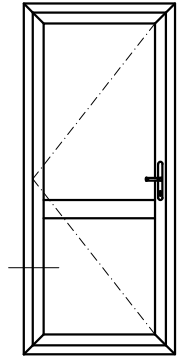
Flush Open In - Elevations



Do Not Scale From This Drawing

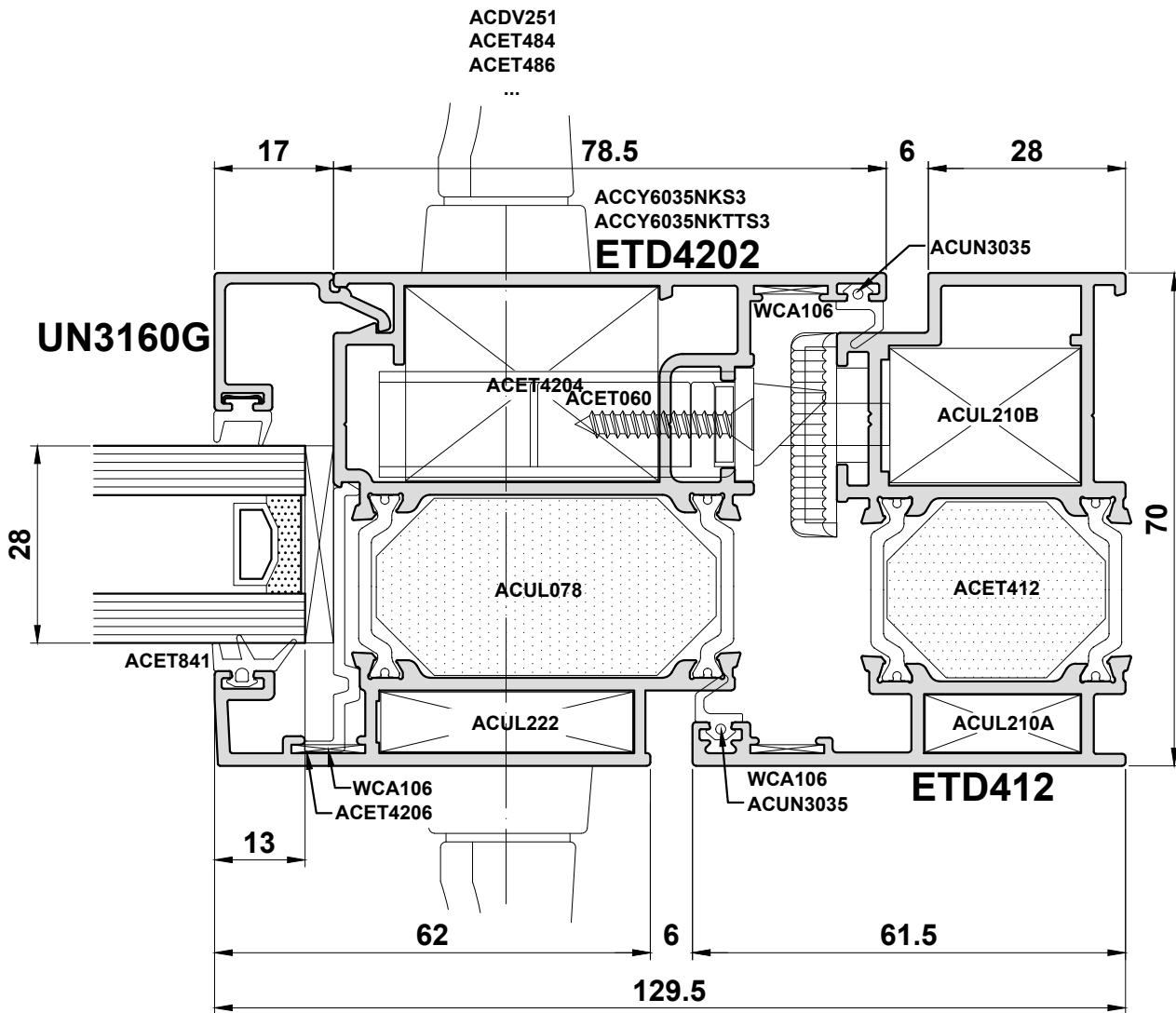
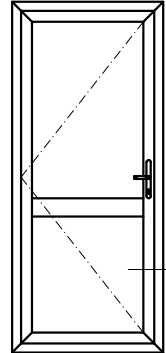


**Flush Open In - Detail 10**



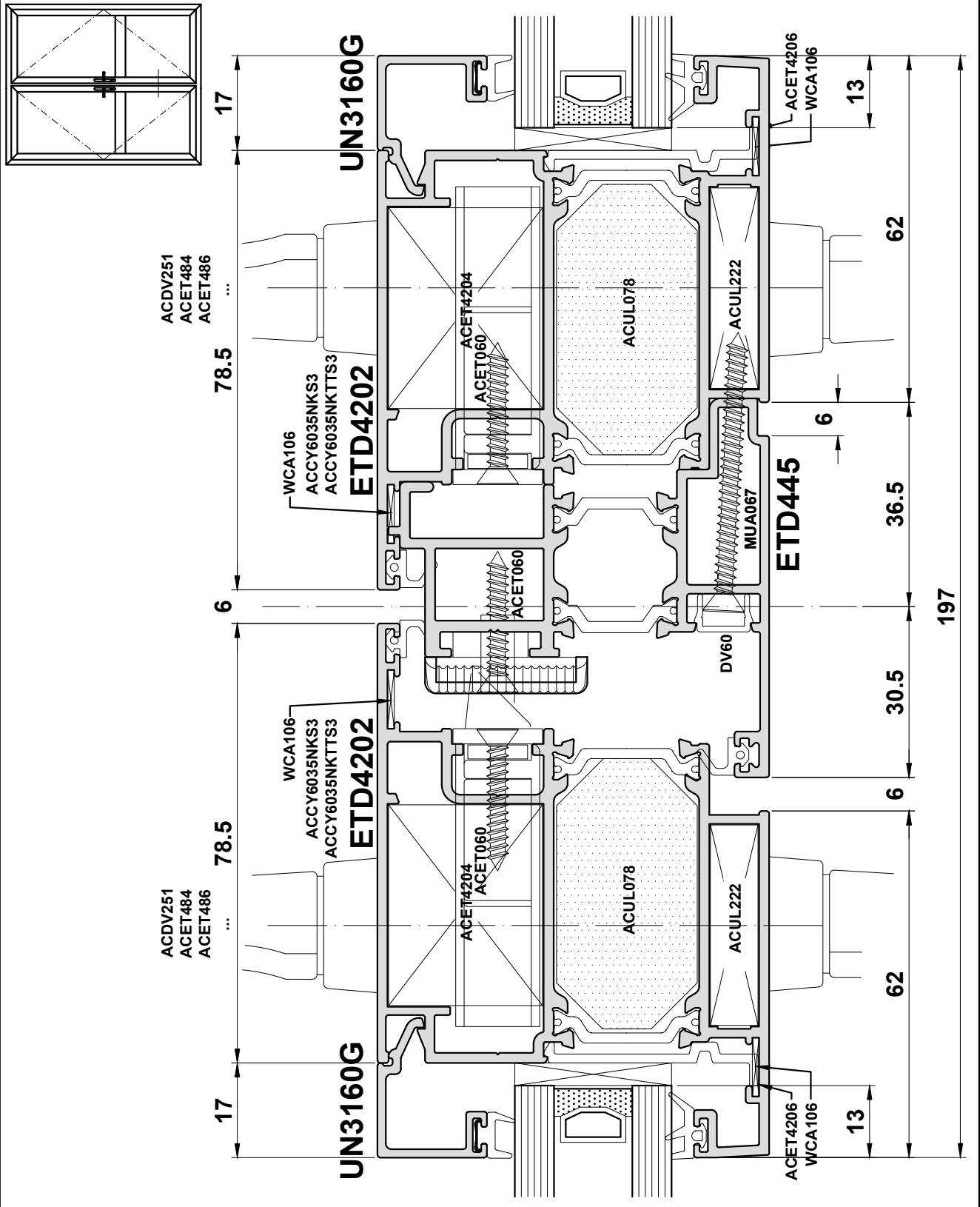
**Do Not Scale From This Drawing**

**Flush Open In - Detail 11**



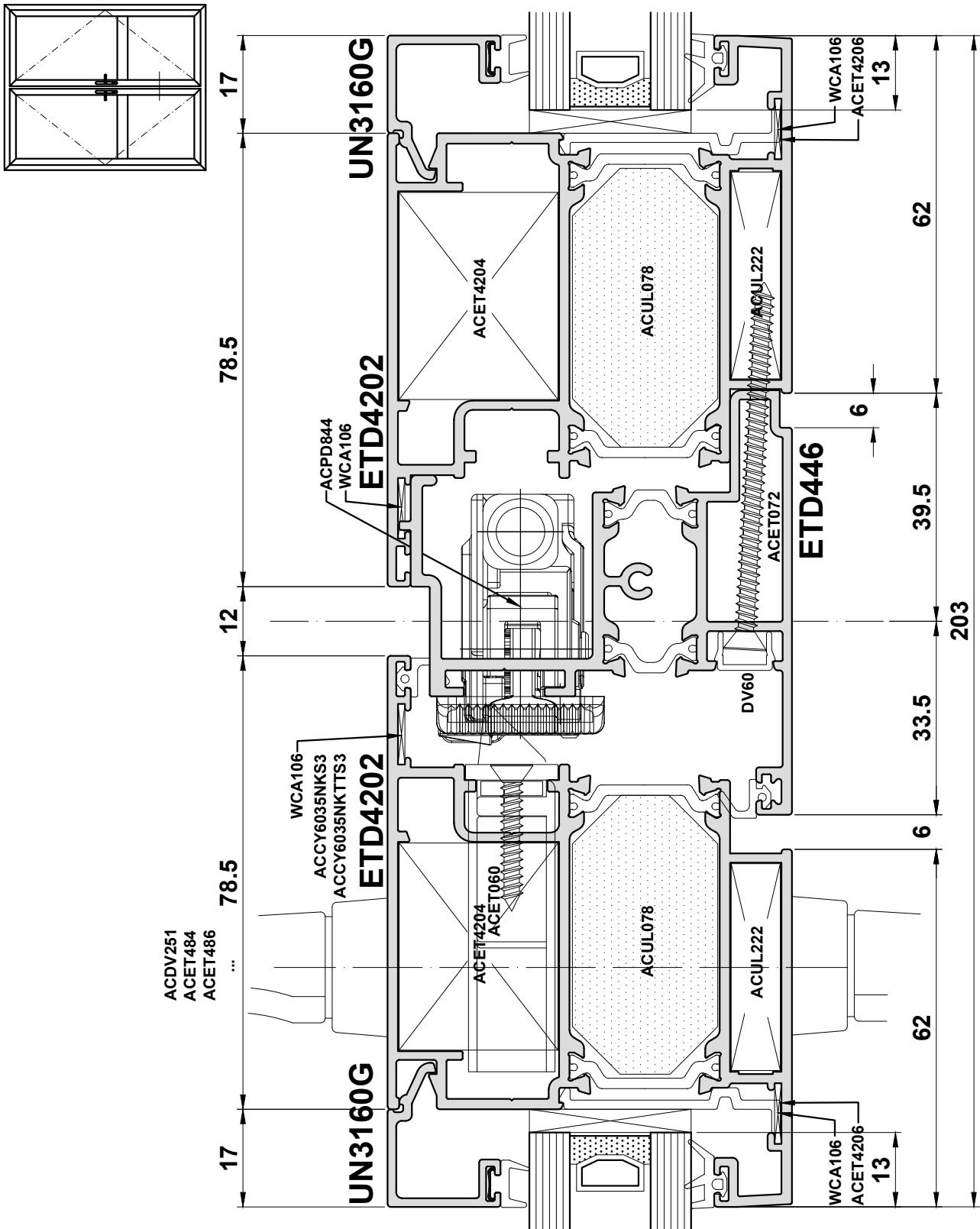
**Do Not Scale From This Drawing**

**Flush Open In - Detail 12A**



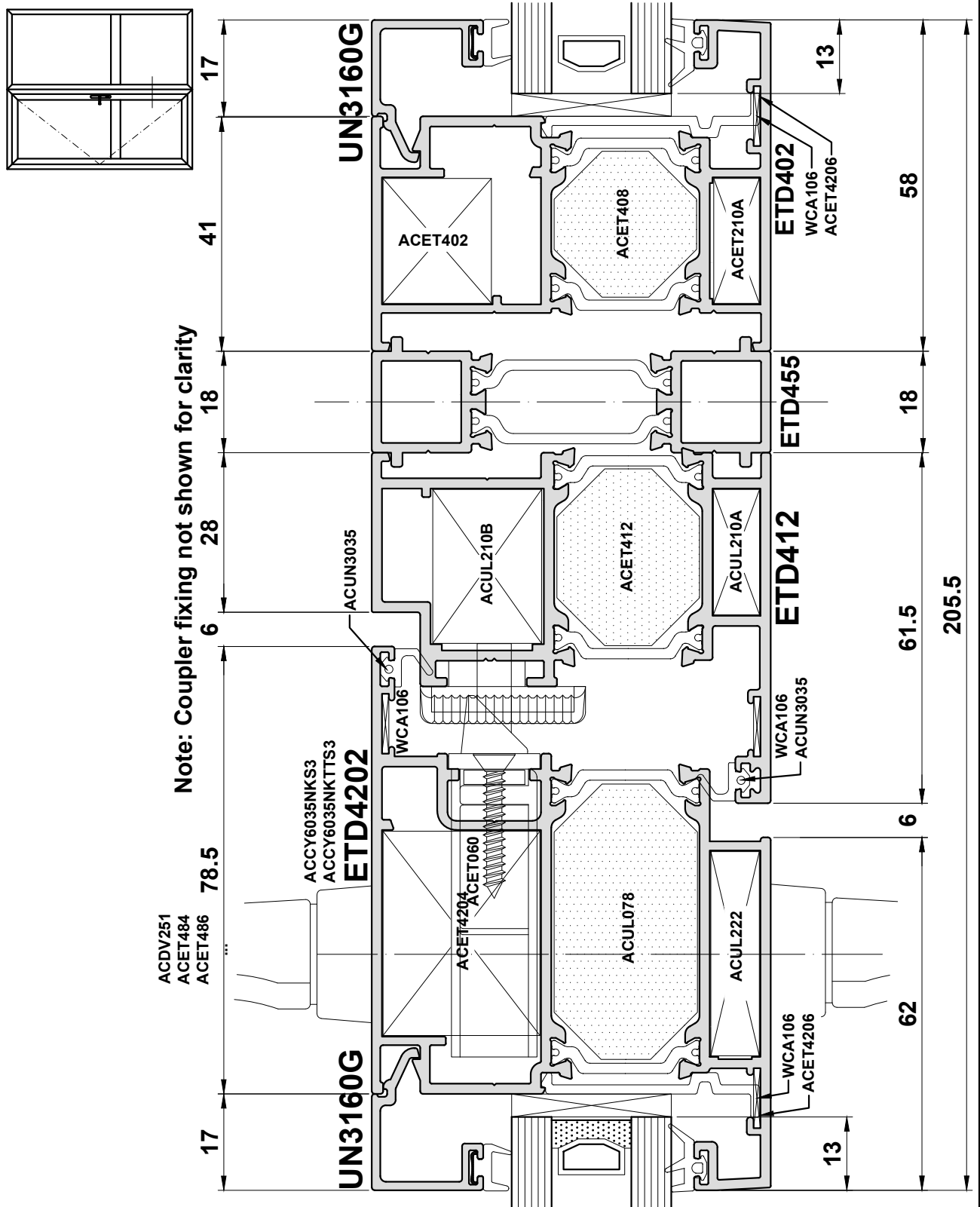
**Do Not Scale From This Drawing**

Flush Open In - Detail 12B



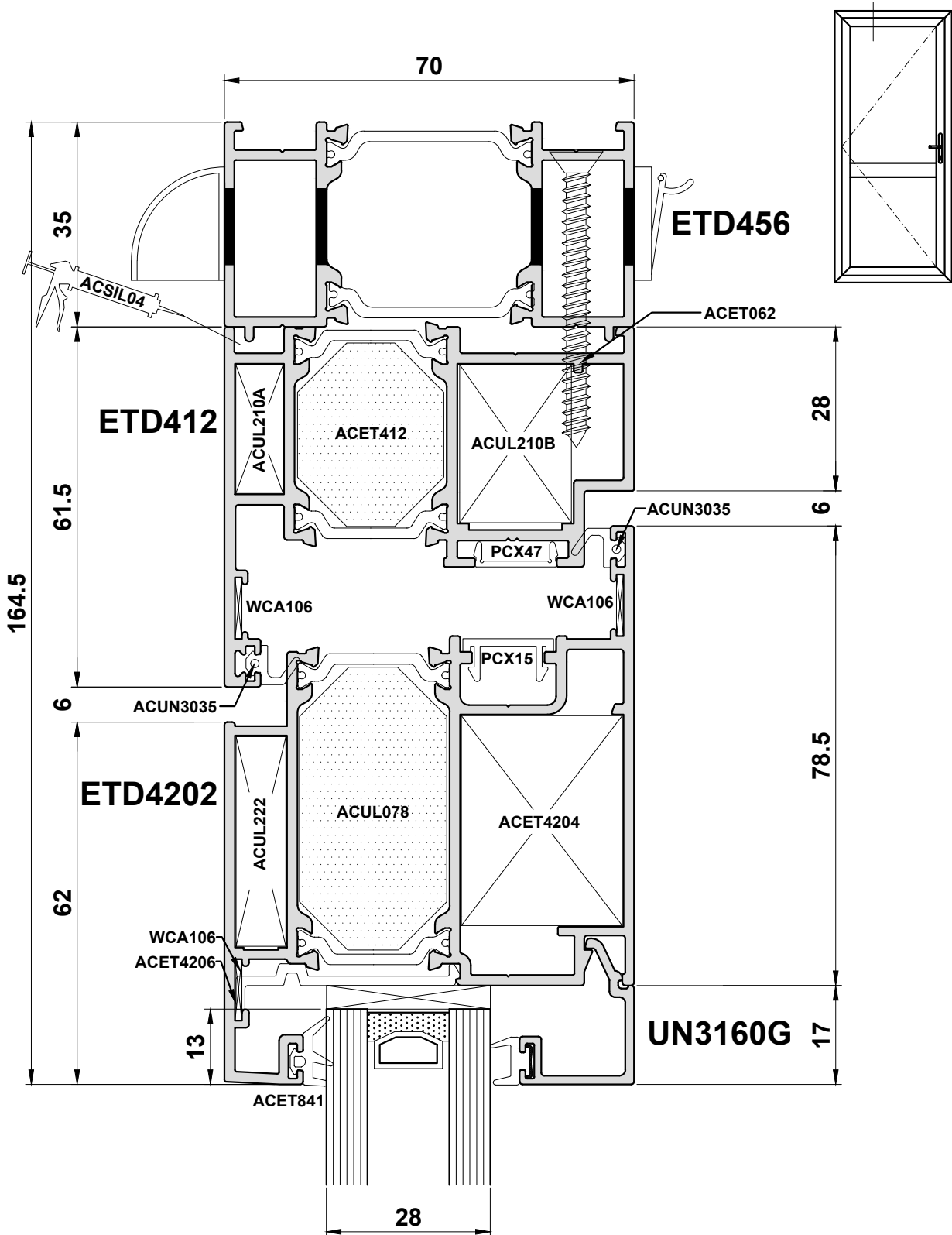
Do Not Scale From This Drawing

**Flush Open In - Detail 13**



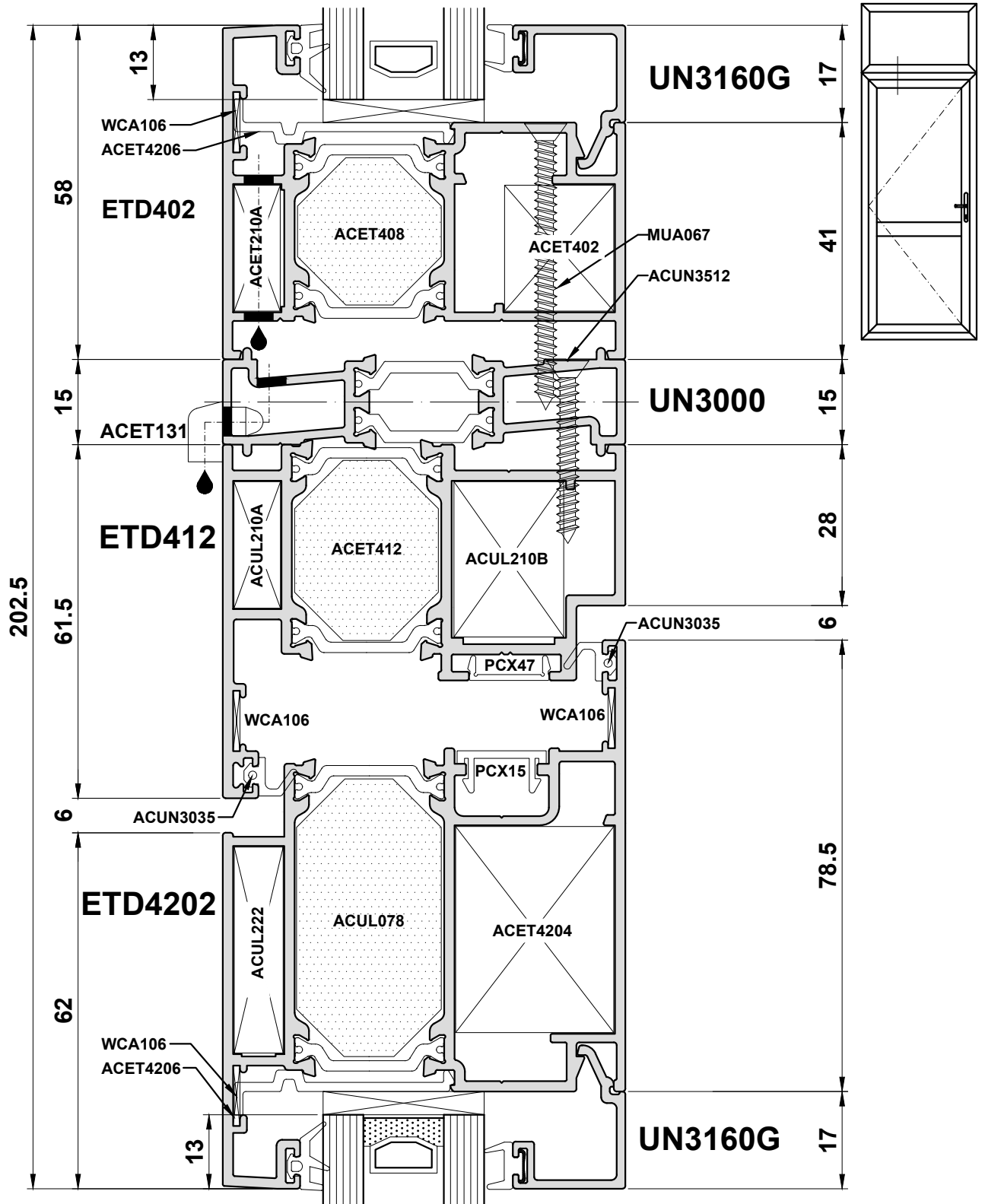
**Do Not Scale From This Drawing**

**Flush Open In - Detail 14**



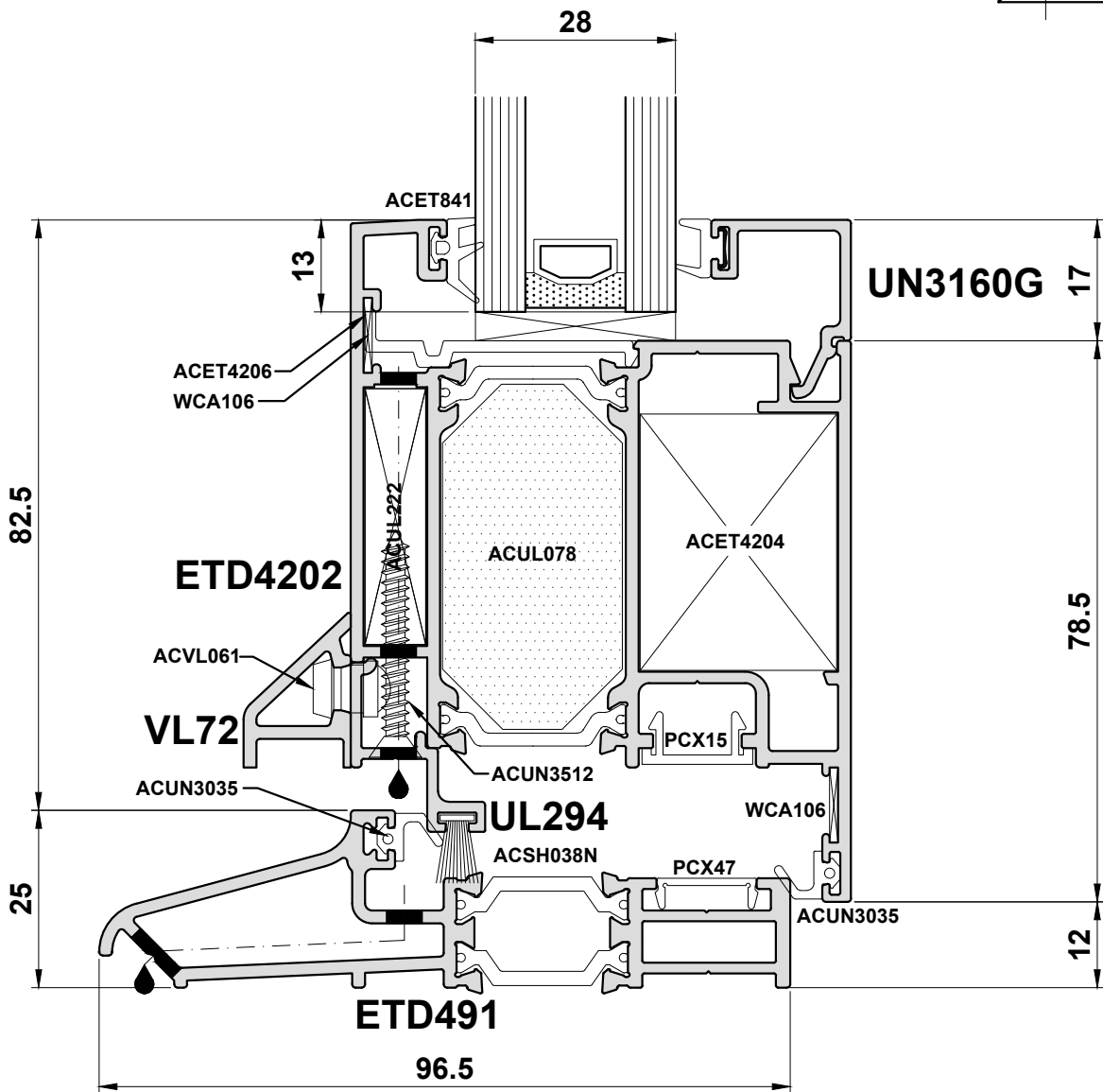
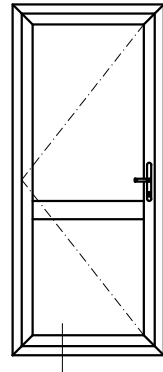
**Do Not Scale From This Drawing**

**Flush Open In - Detail 15**



**Do Not Scale From This Drawing**

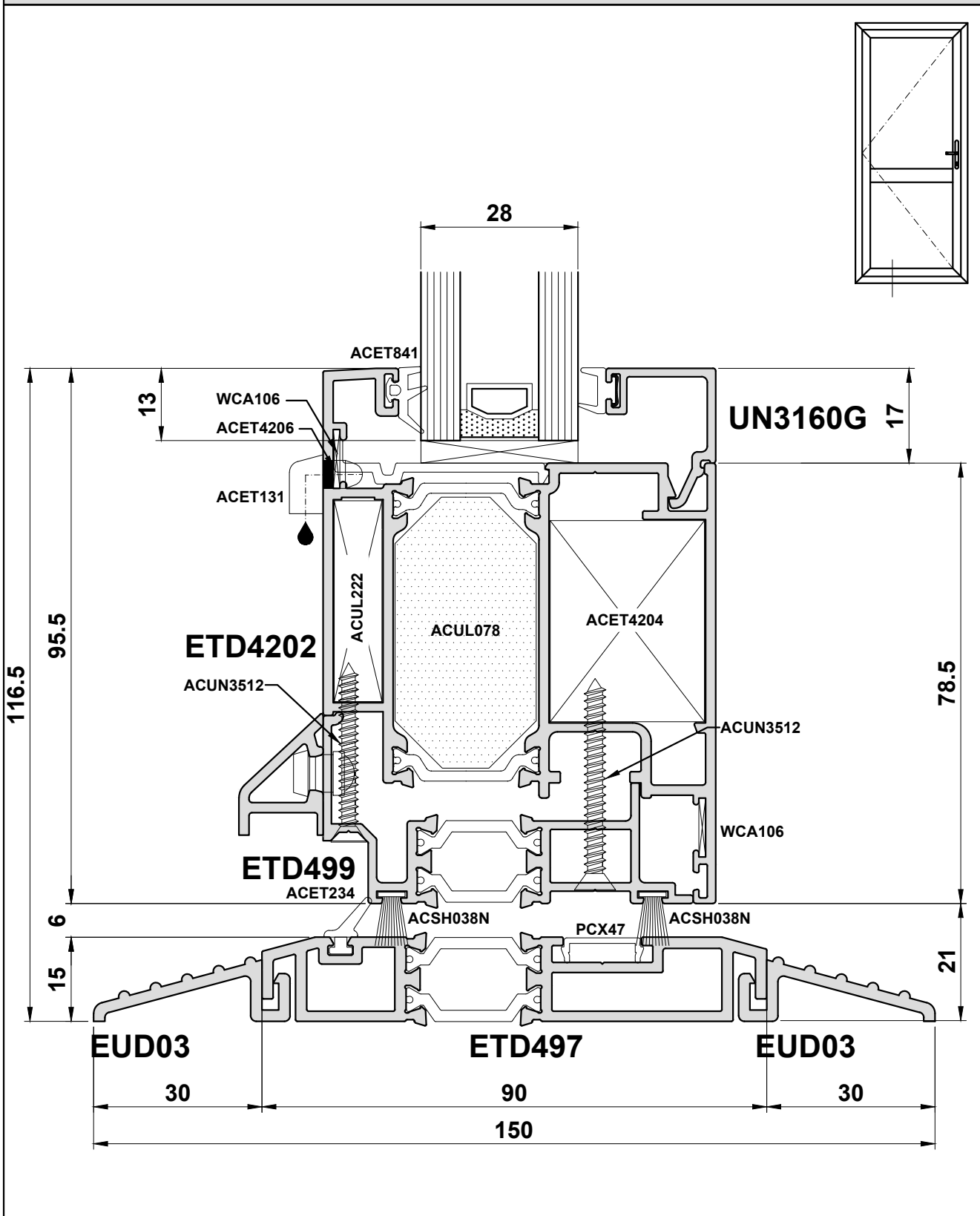
**Flush Open In - Detail 16A**



**Do Not Scale From This Drawing**

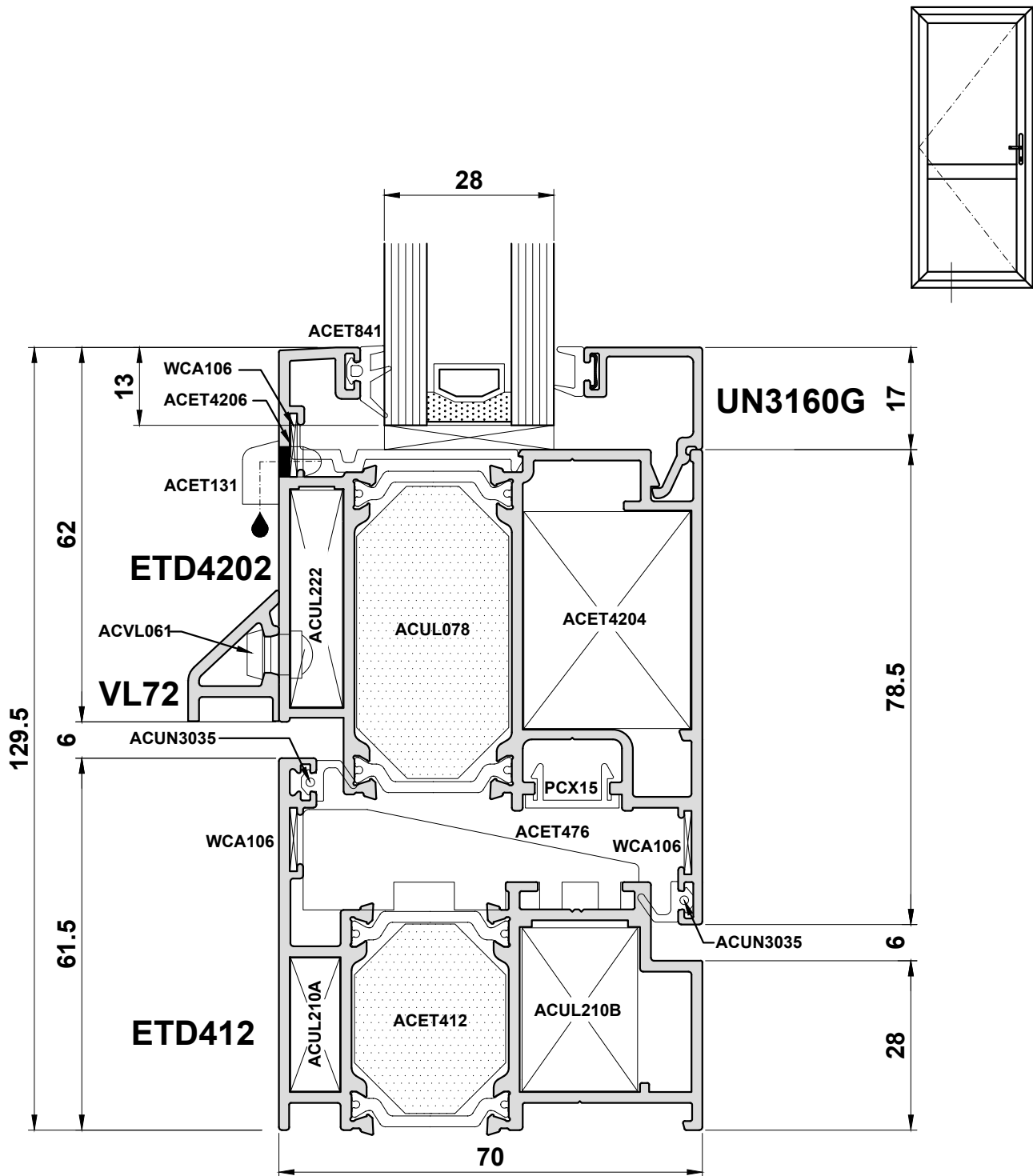


**Flush Open In - Detail 16B**



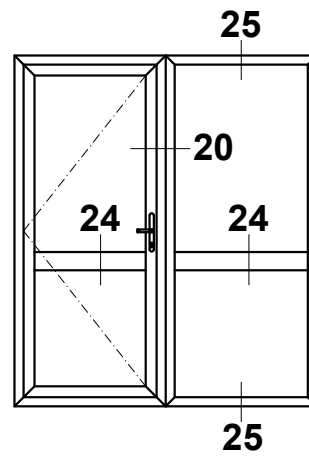
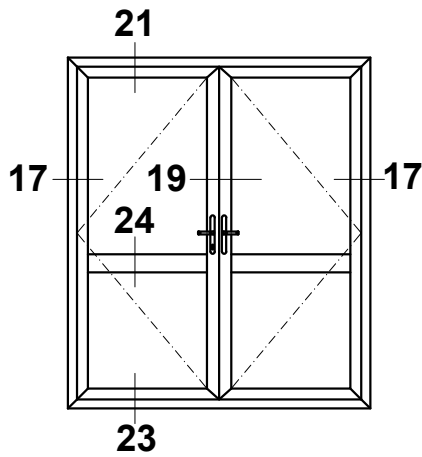
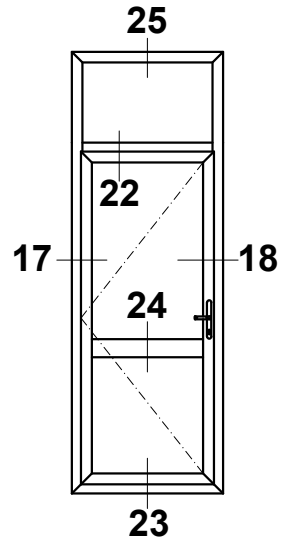
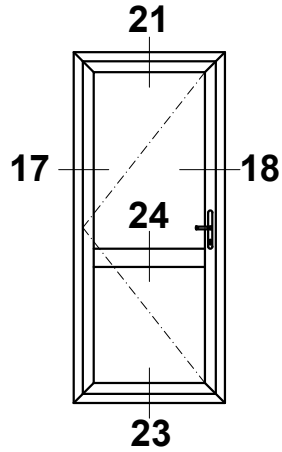
**Do Not Scale From This Drawing**

**Flush Open In - Detail 16C**



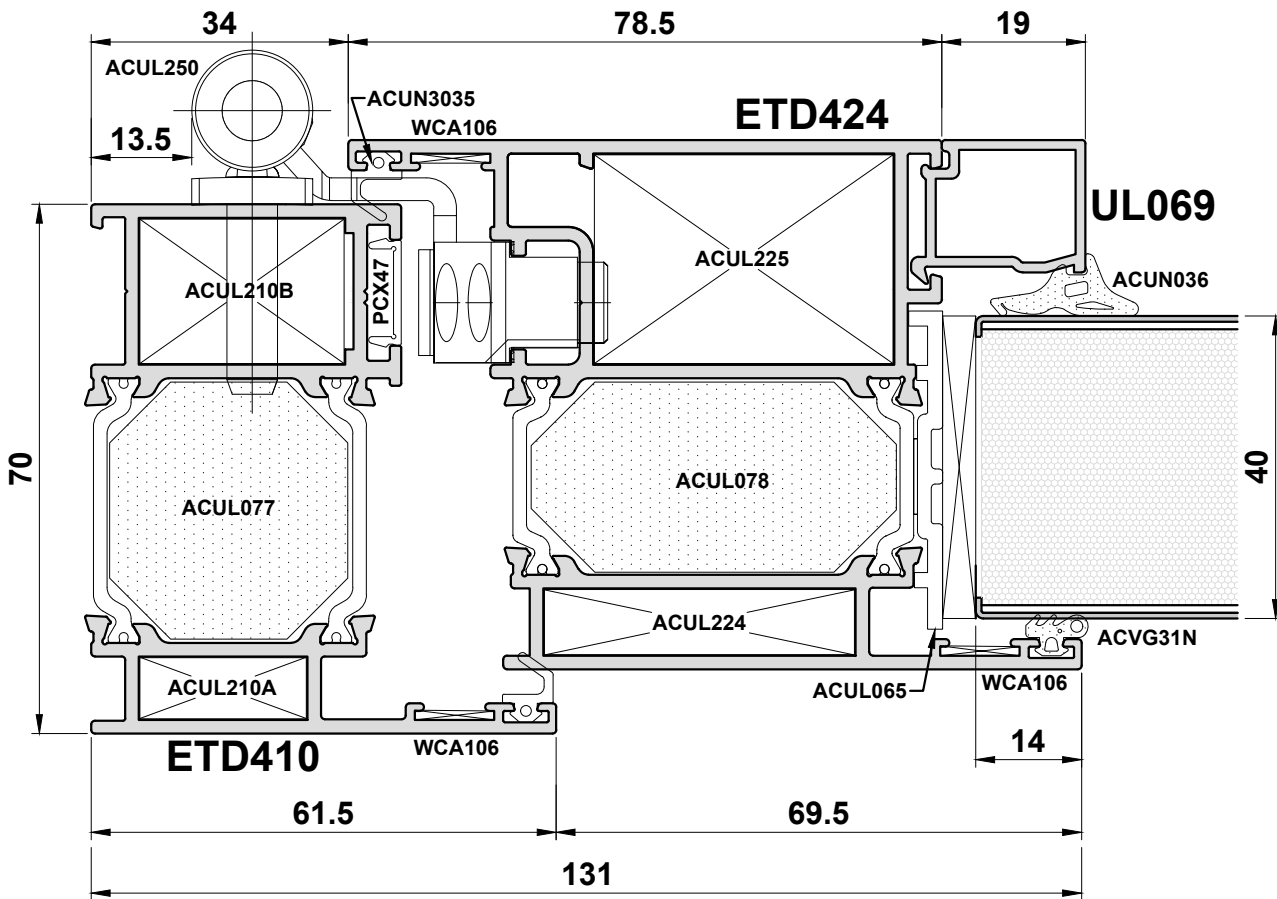
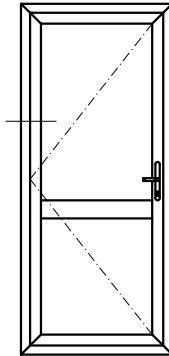
**Do Not Scale From This Drawing**

**Stepped Open In Tap In Bead - Elevations**



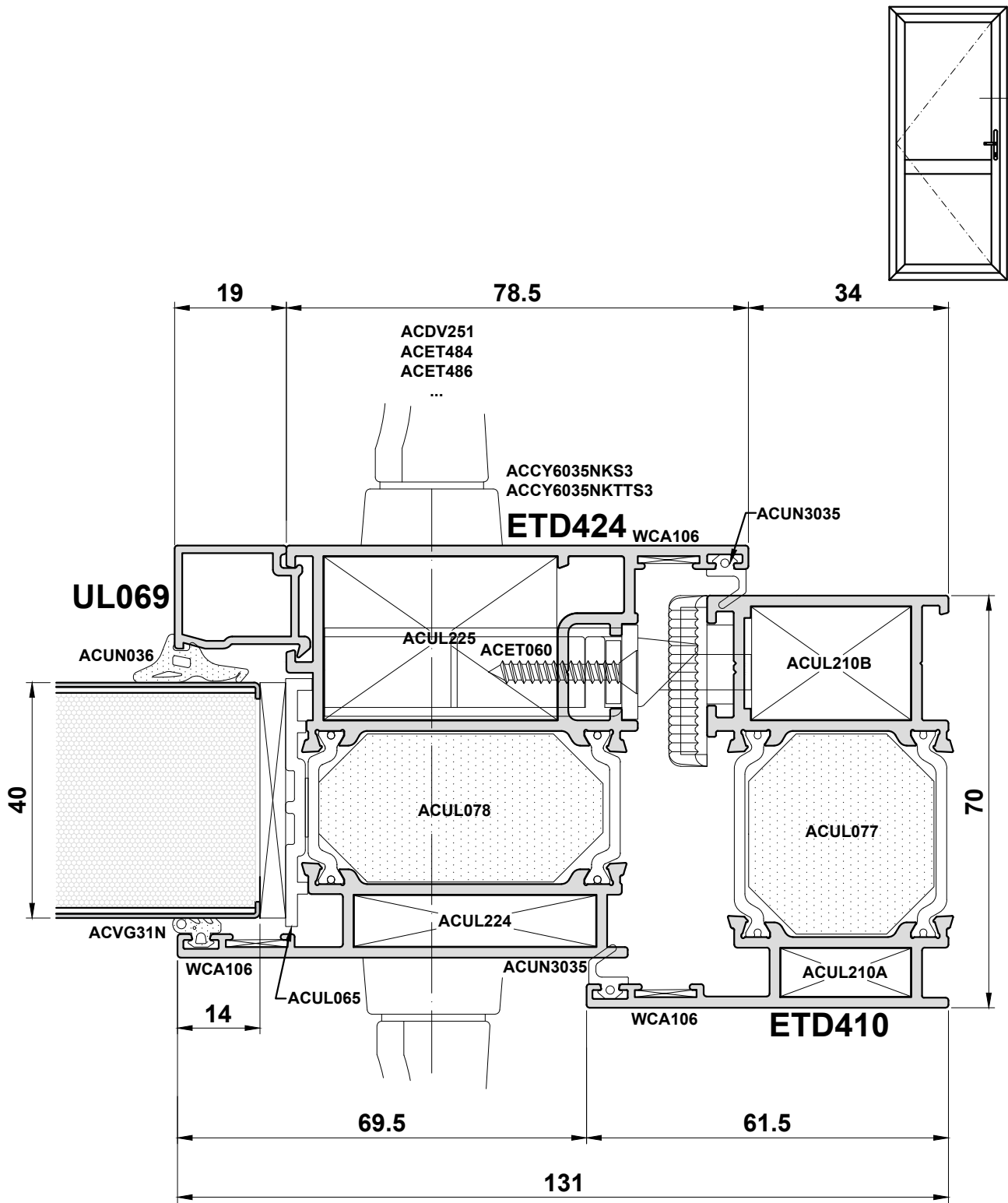
**Do Not Scale From This Drawing**

**Stepped Open In - Detail 17**



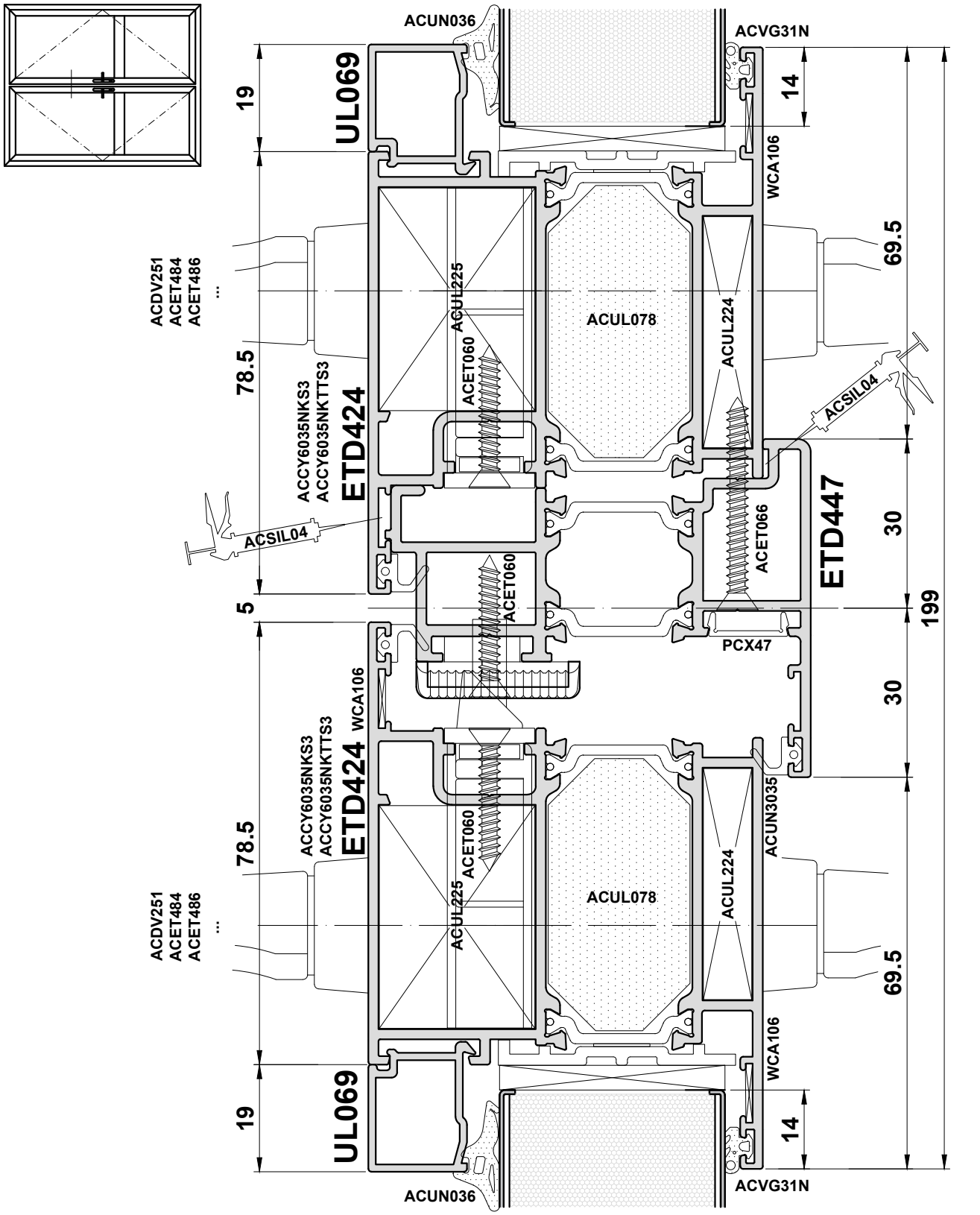
**Do Not Scale From This Drawing**

**Stepped Open In - Detail 18**



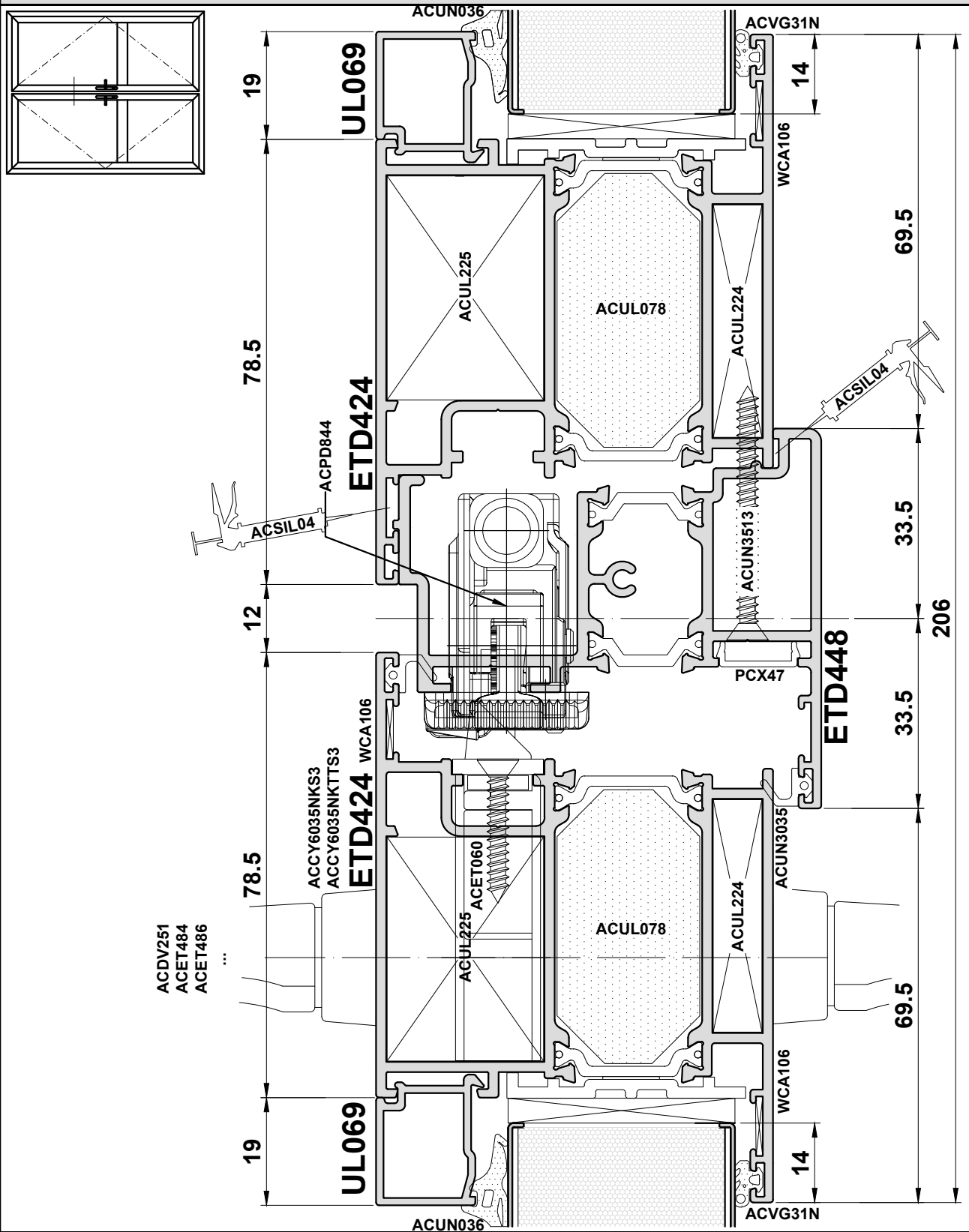
**Do Not Scale From This Drawing**

Stepped Open In - Detail 19A



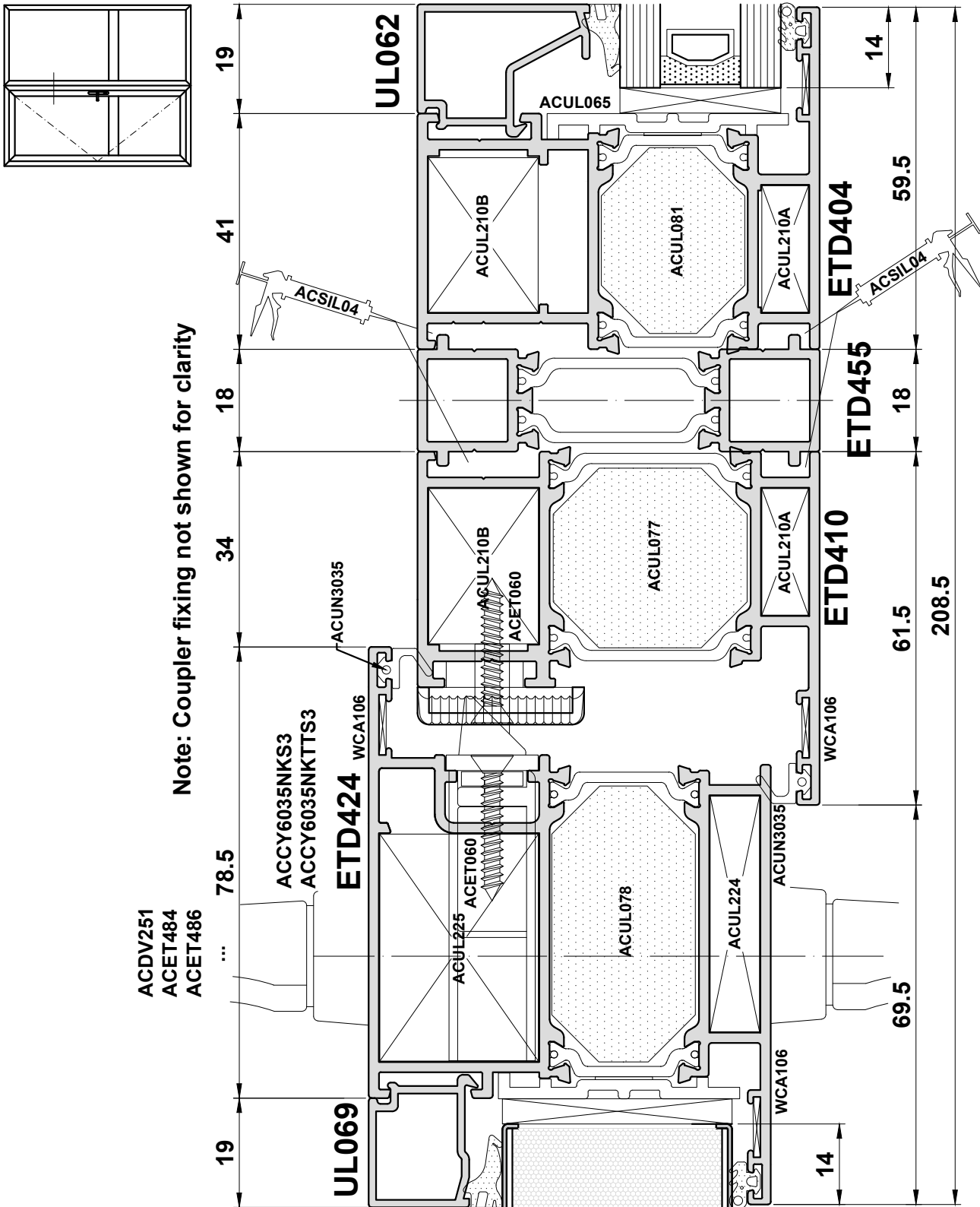
Do Not Scale From This Drawing

**Stepped Open In - Detail 19B**



**Do Not Scale From This Drawing**

Stepped Open In - Detail 20

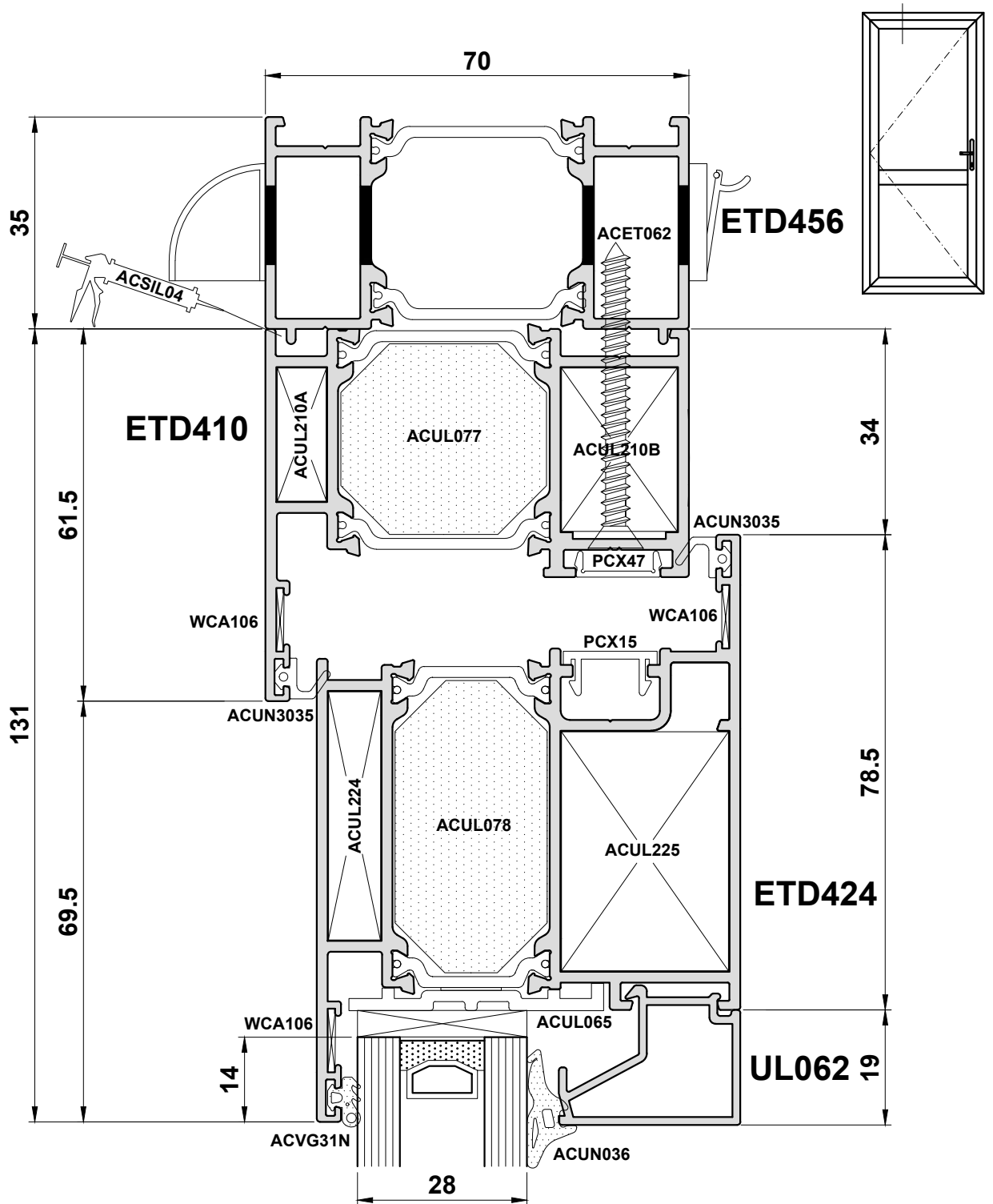


Note: Coupler fixing not shown for clarity

Do Not Scale From This Drawing

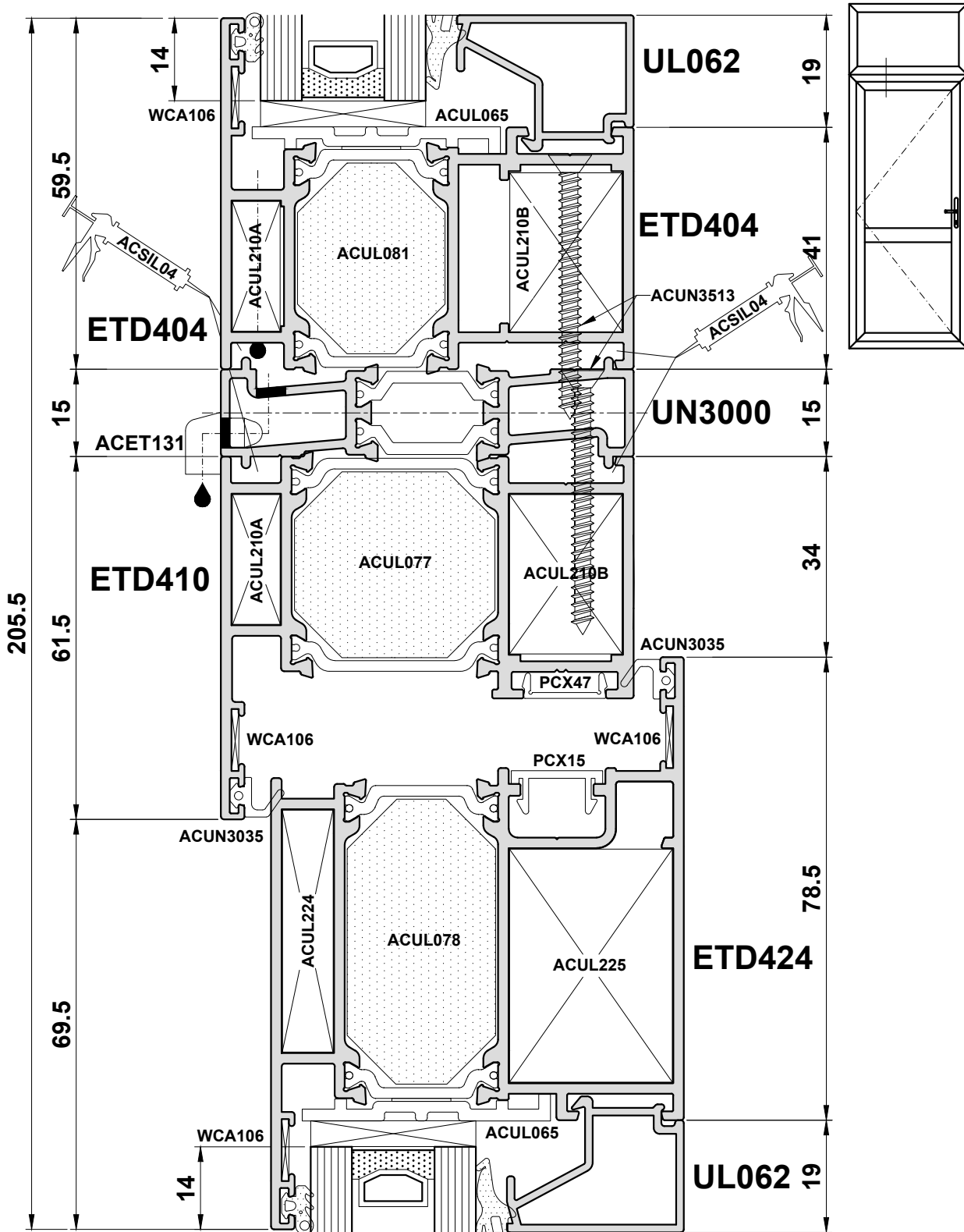


**Stepped Open In - Detail 21**



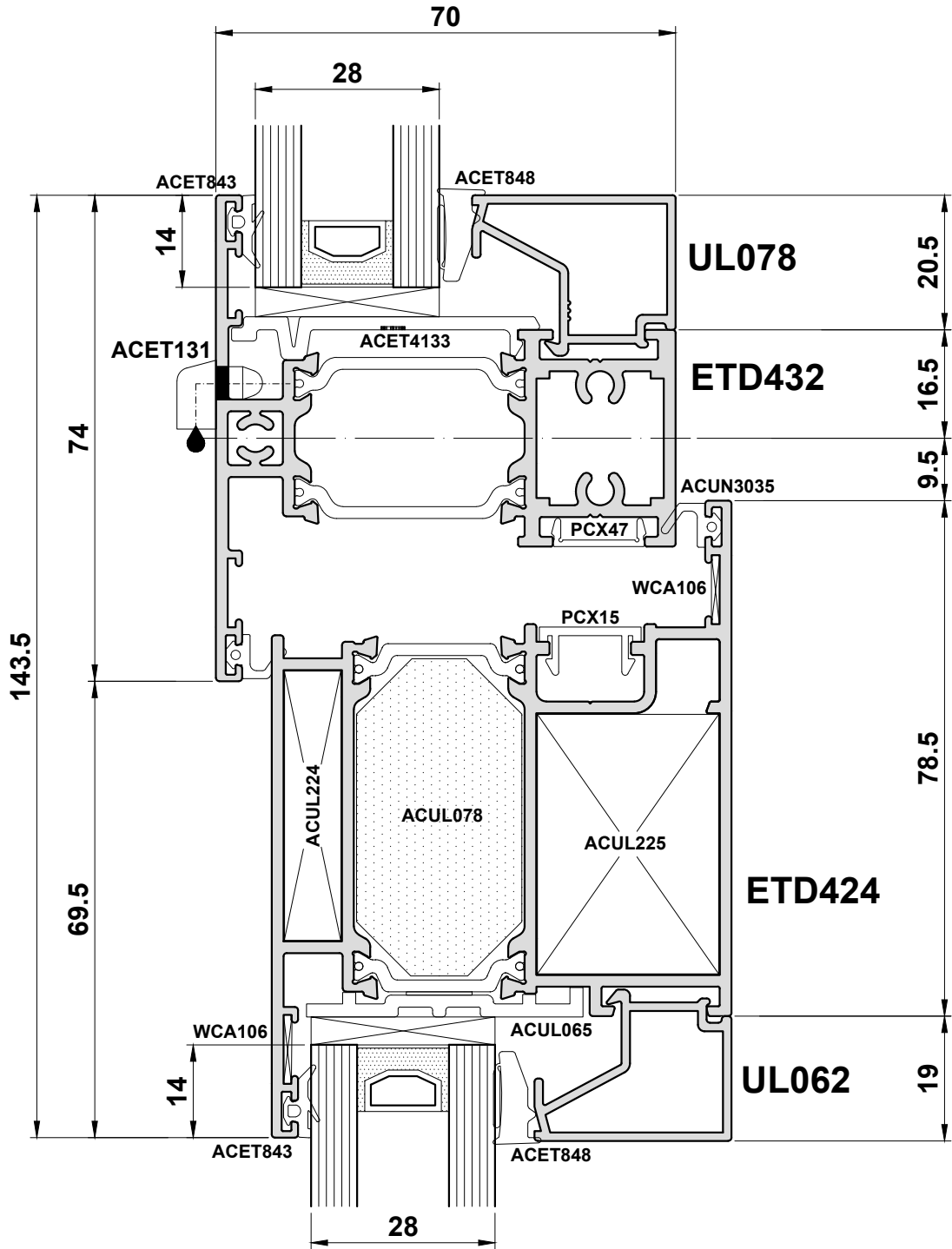
**Do Not Scale From This Drawing**

**Stepped Open In - Detail 22A**



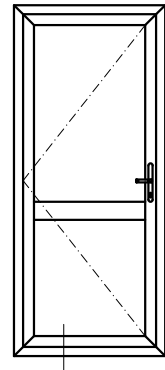
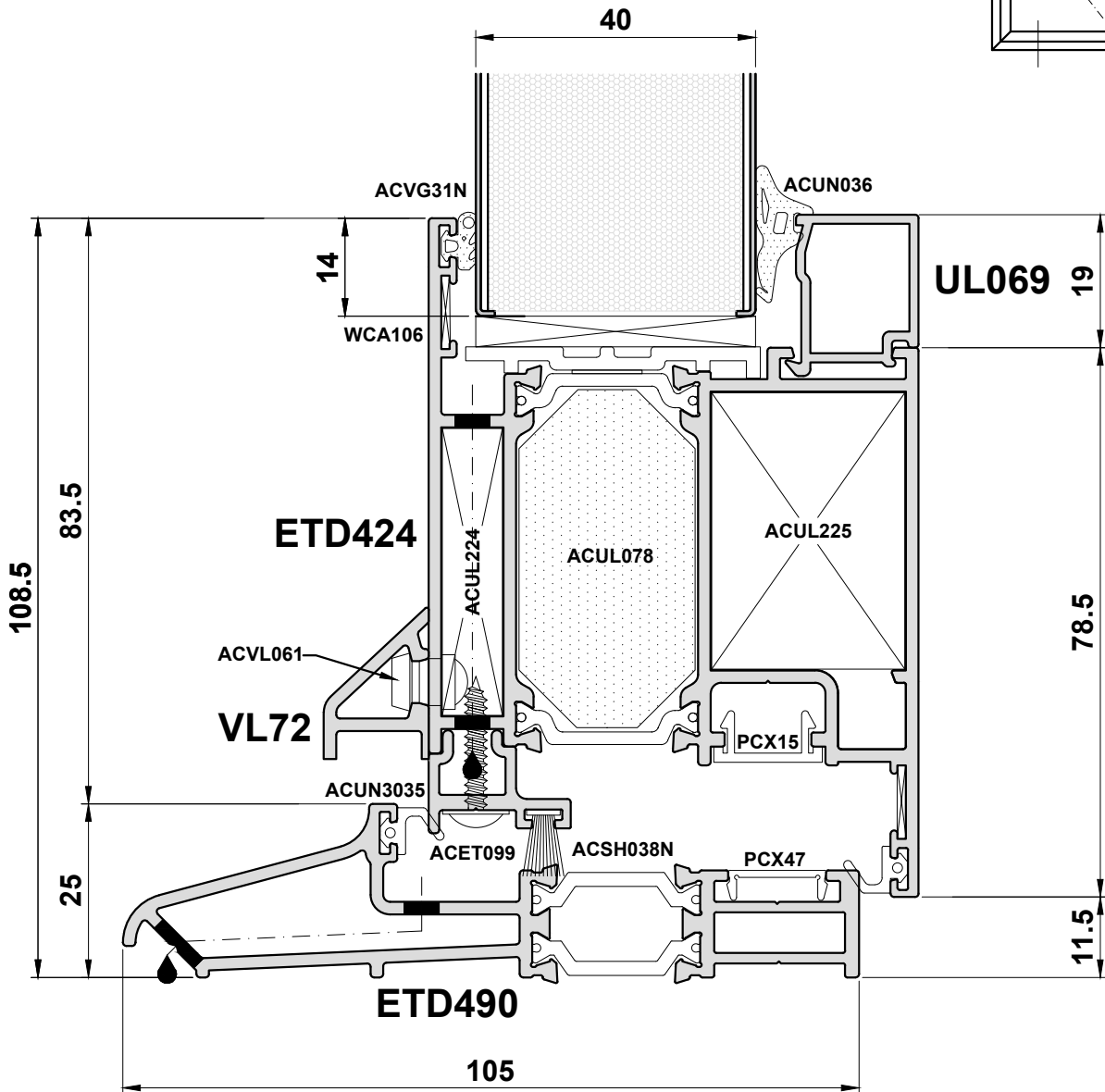
**Do Not Scale From This Drawing**

**Stepped Open In - Detail 22B**



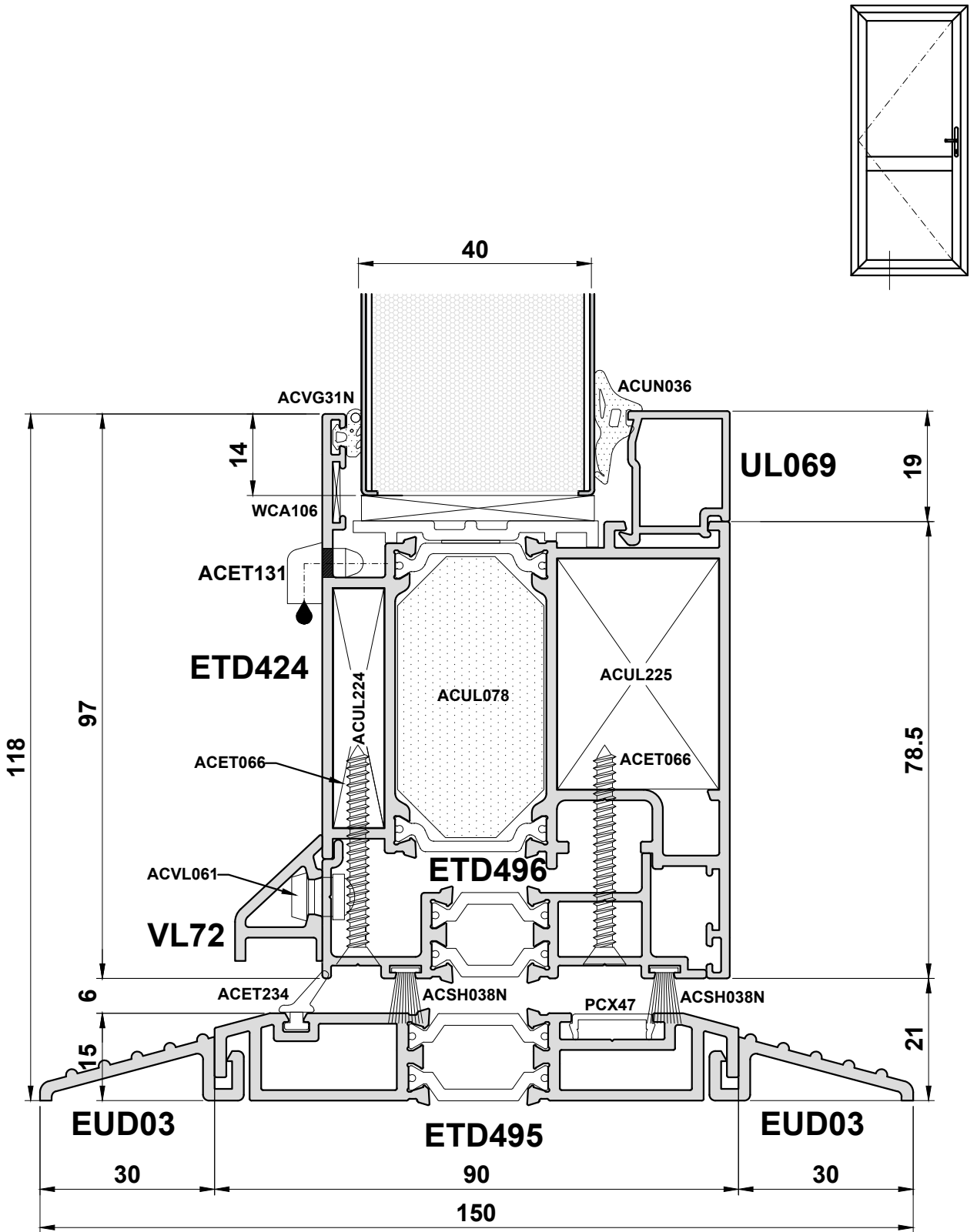
**Do Not Scale From This Drawing**

**Stepped Open In - Detail 23A**



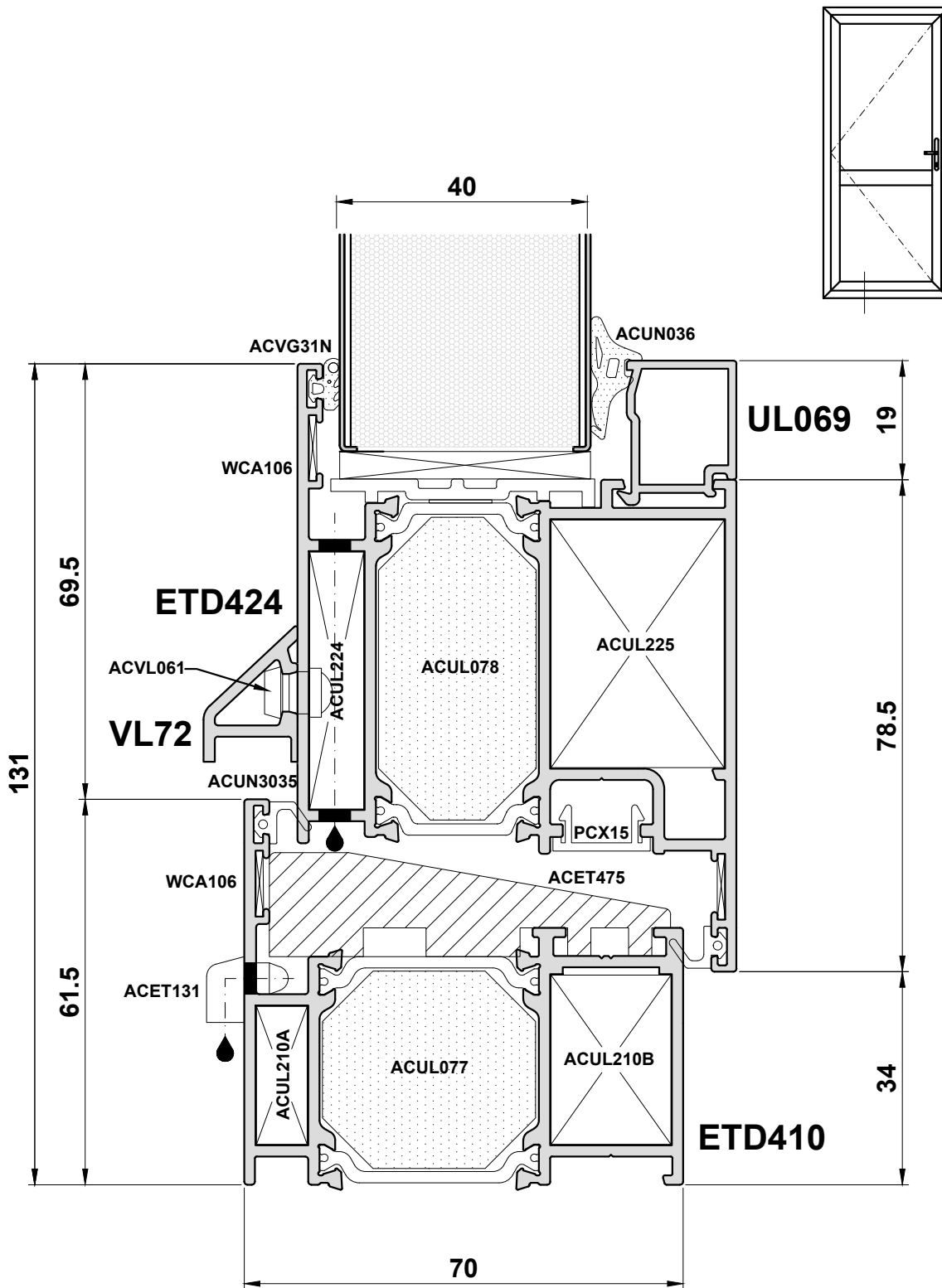
**Do Not Scale From This Drawing**

**Stepped Open In - Detail 23B**



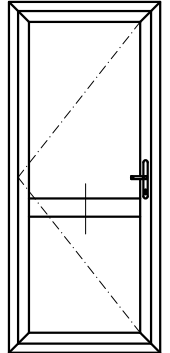
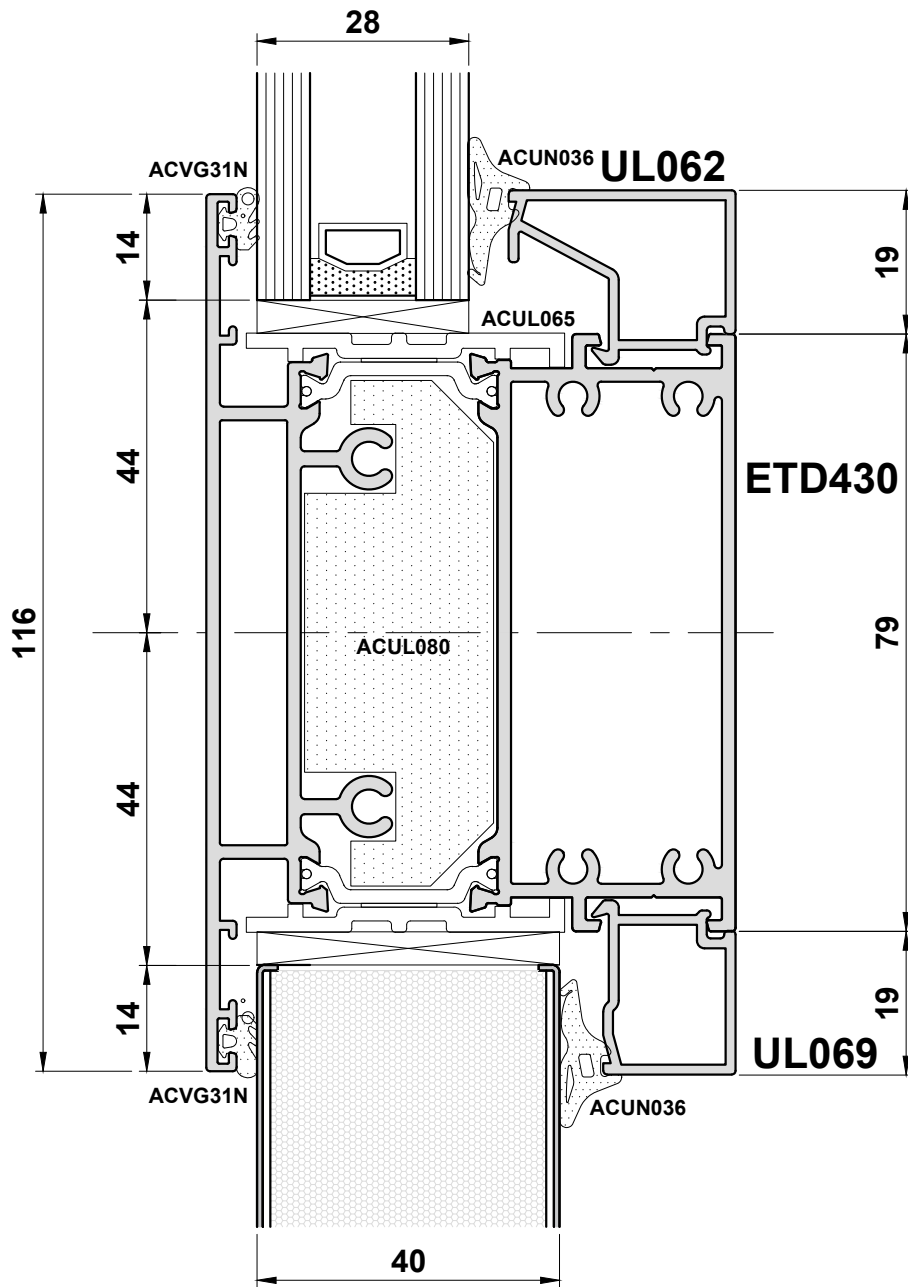
**Do Not Scale From This Drawing**

**Stepped Open In - Detail 23C**



**Do Not Scale From This Drawing**

**Stepped Open In - Detail 24**

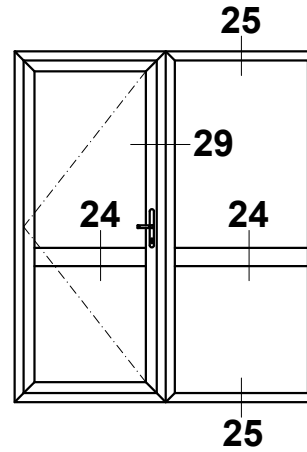
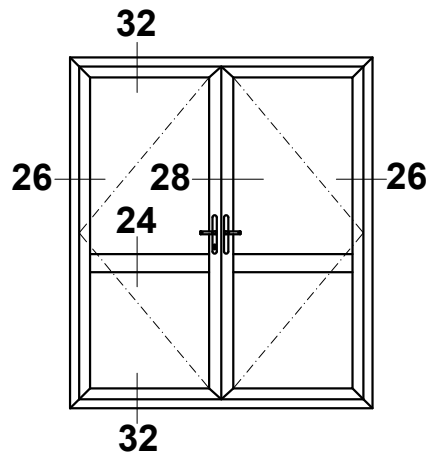
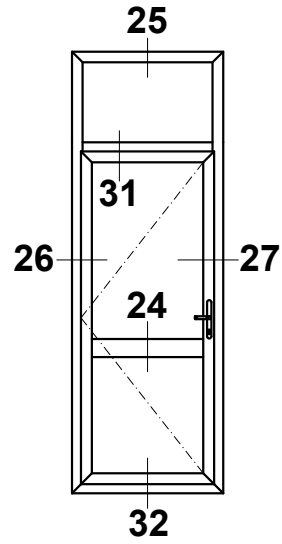
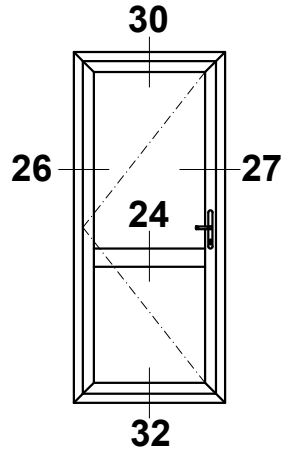


**Do Not Scale From This Drawing**



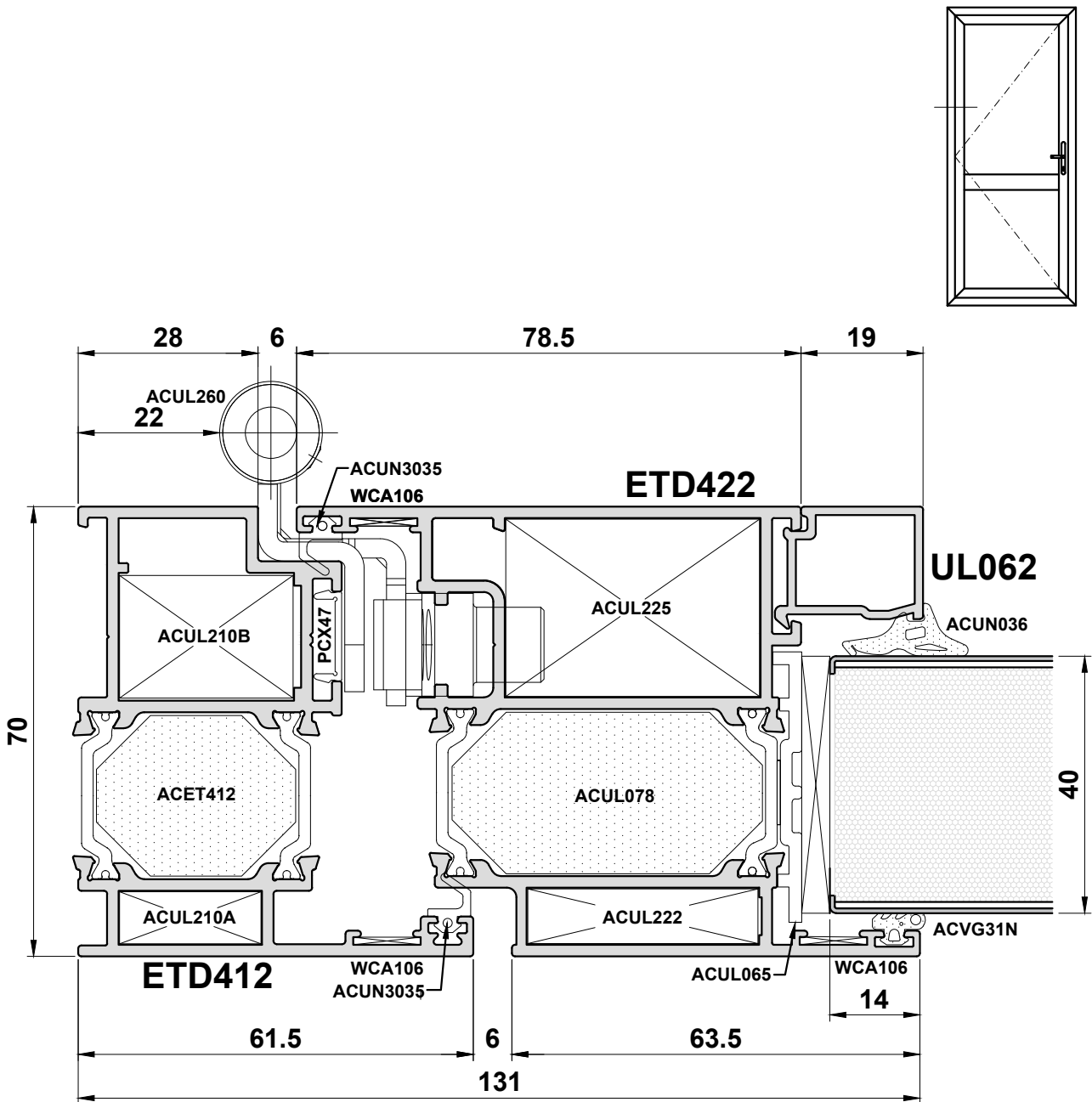


**Flush Open In Tap In Bead - Elevations**



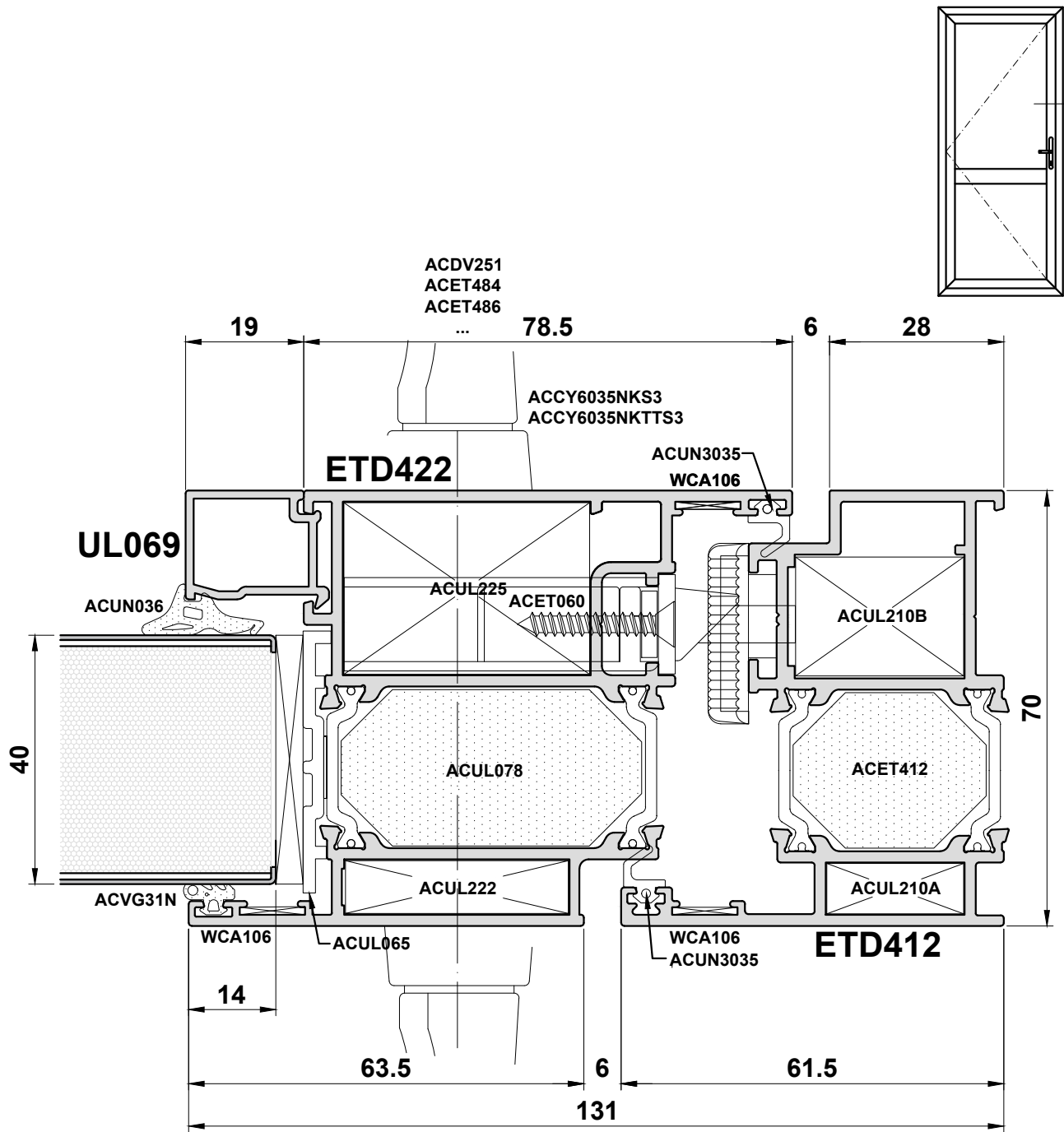
**Do Not Scale From This Drawing**

**Flush Open In - Detail 26**



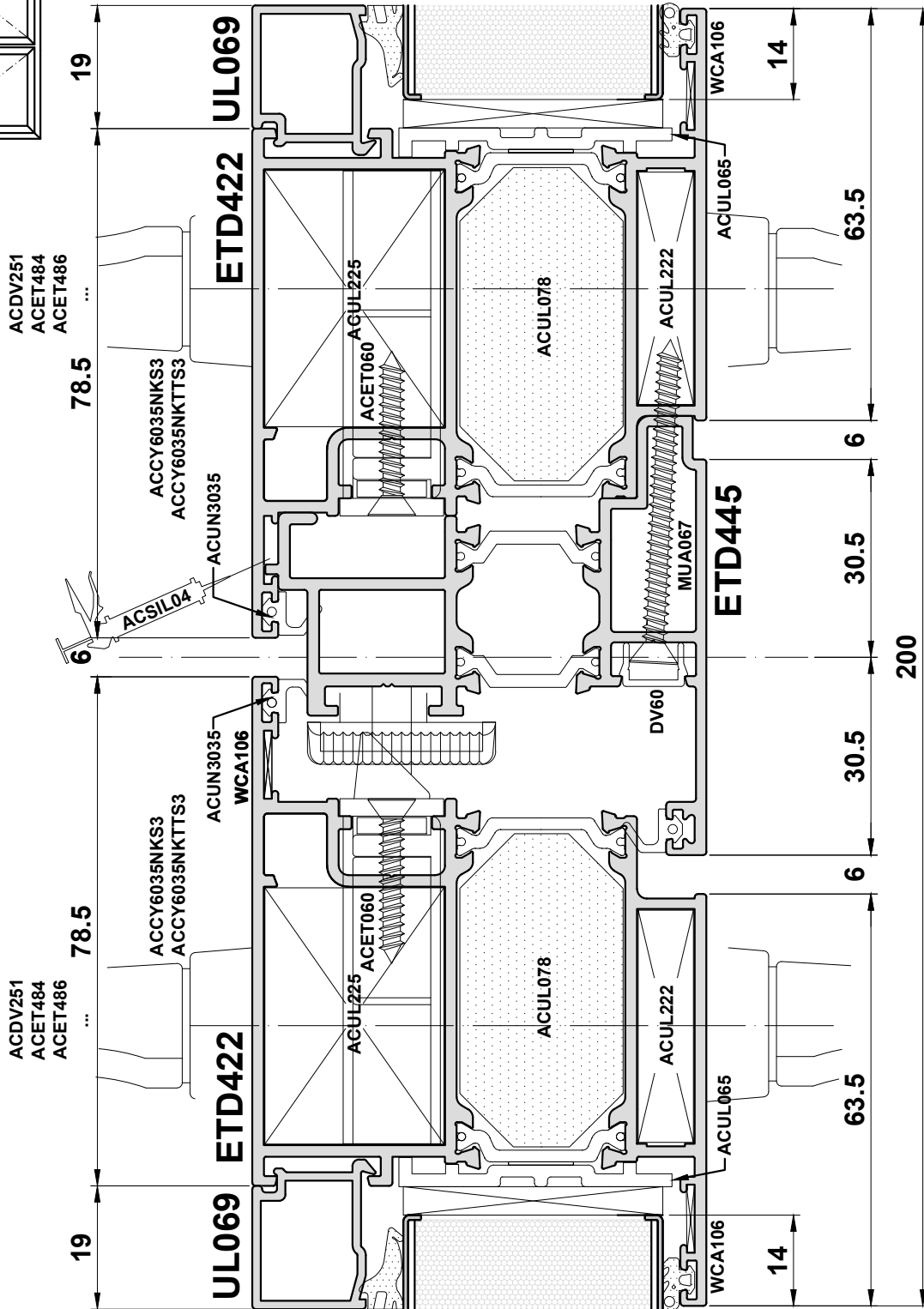
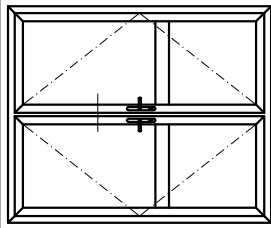
**Do Not Scale From This Drawing**

**Flush Open In - Detail 27**



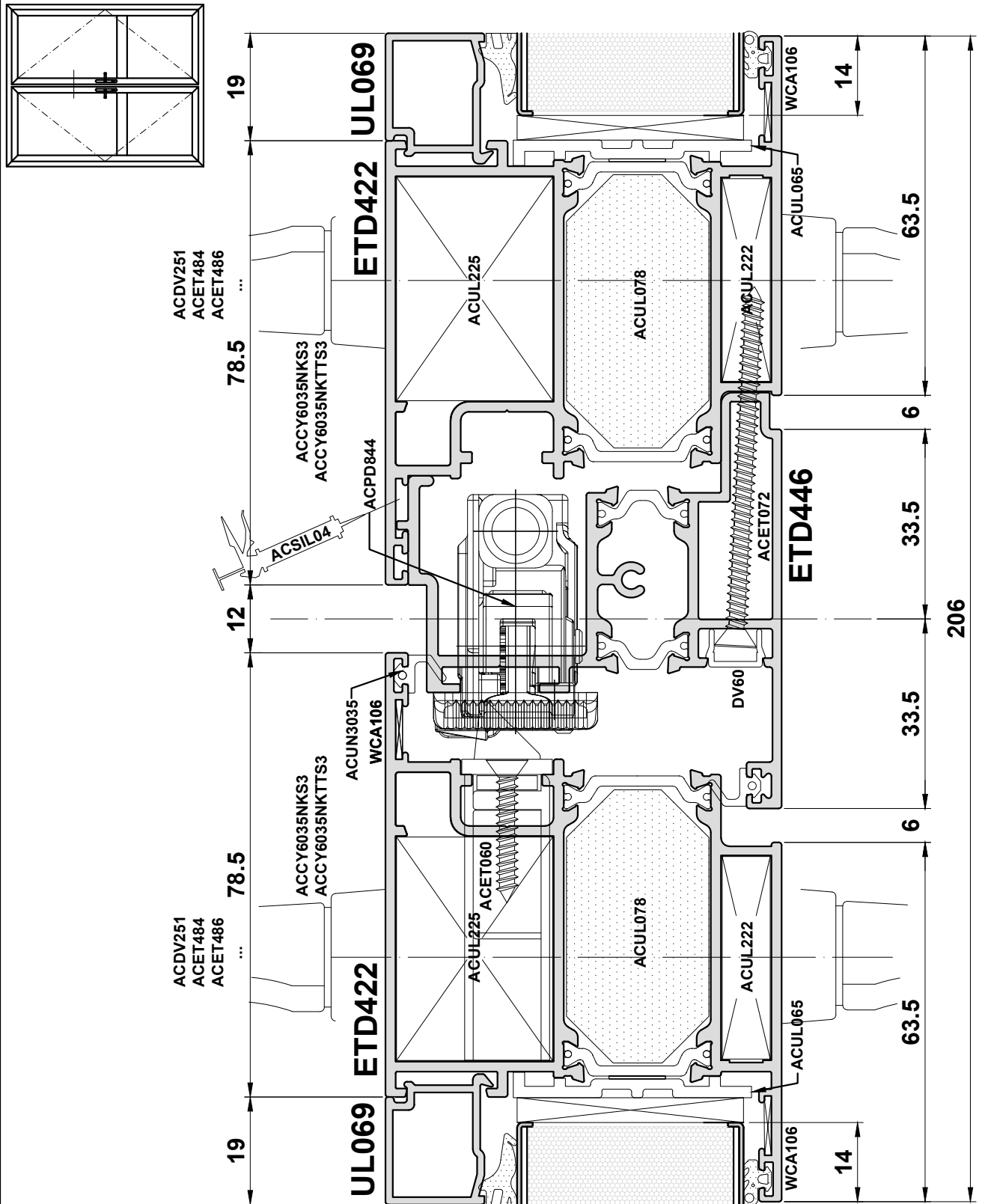
**Do Not Scale From This Drawing**

**Flush Open In - Detail 28A**



**Do Not Scale From This Drawing**

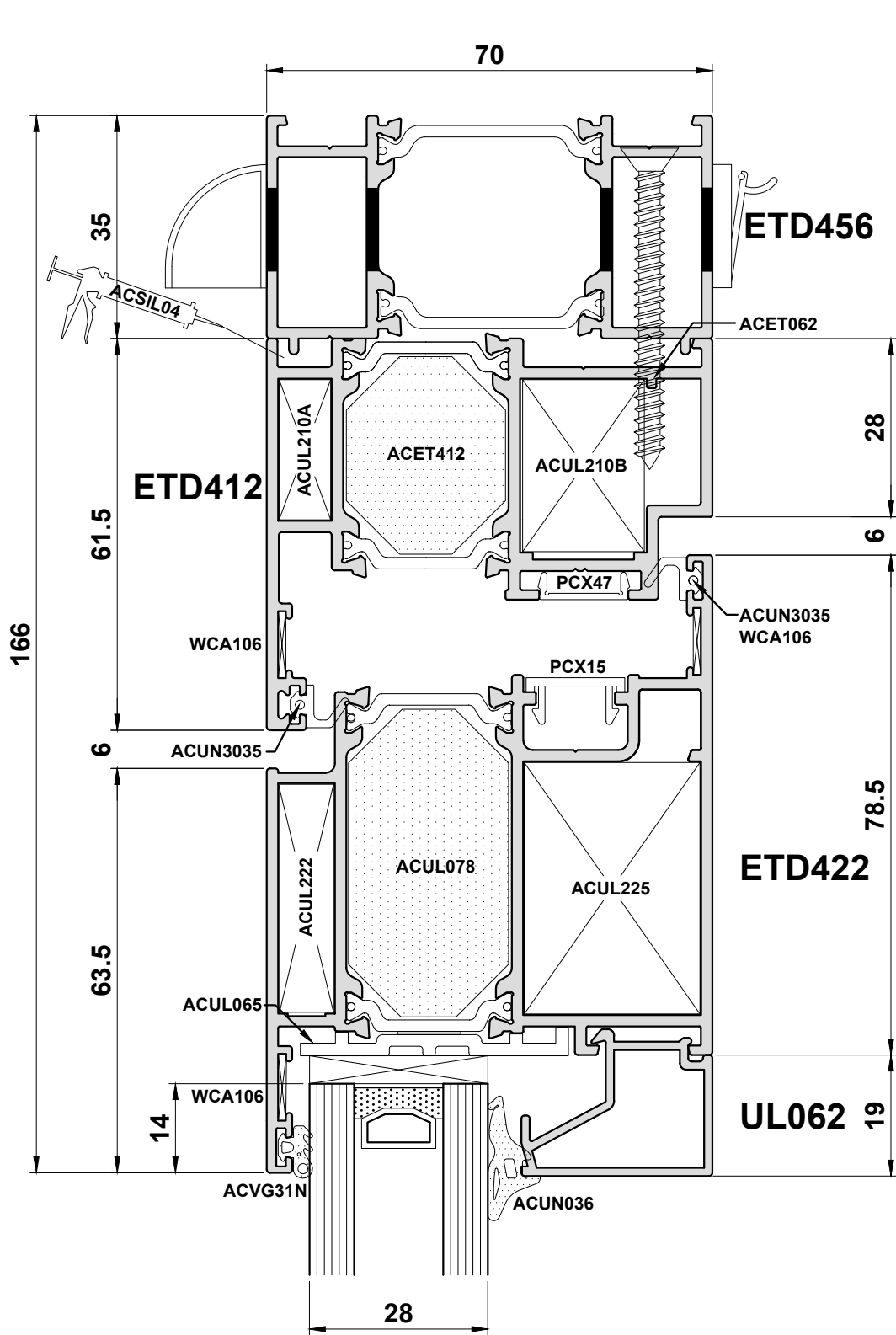
**Flush Open In - Detail 28B**



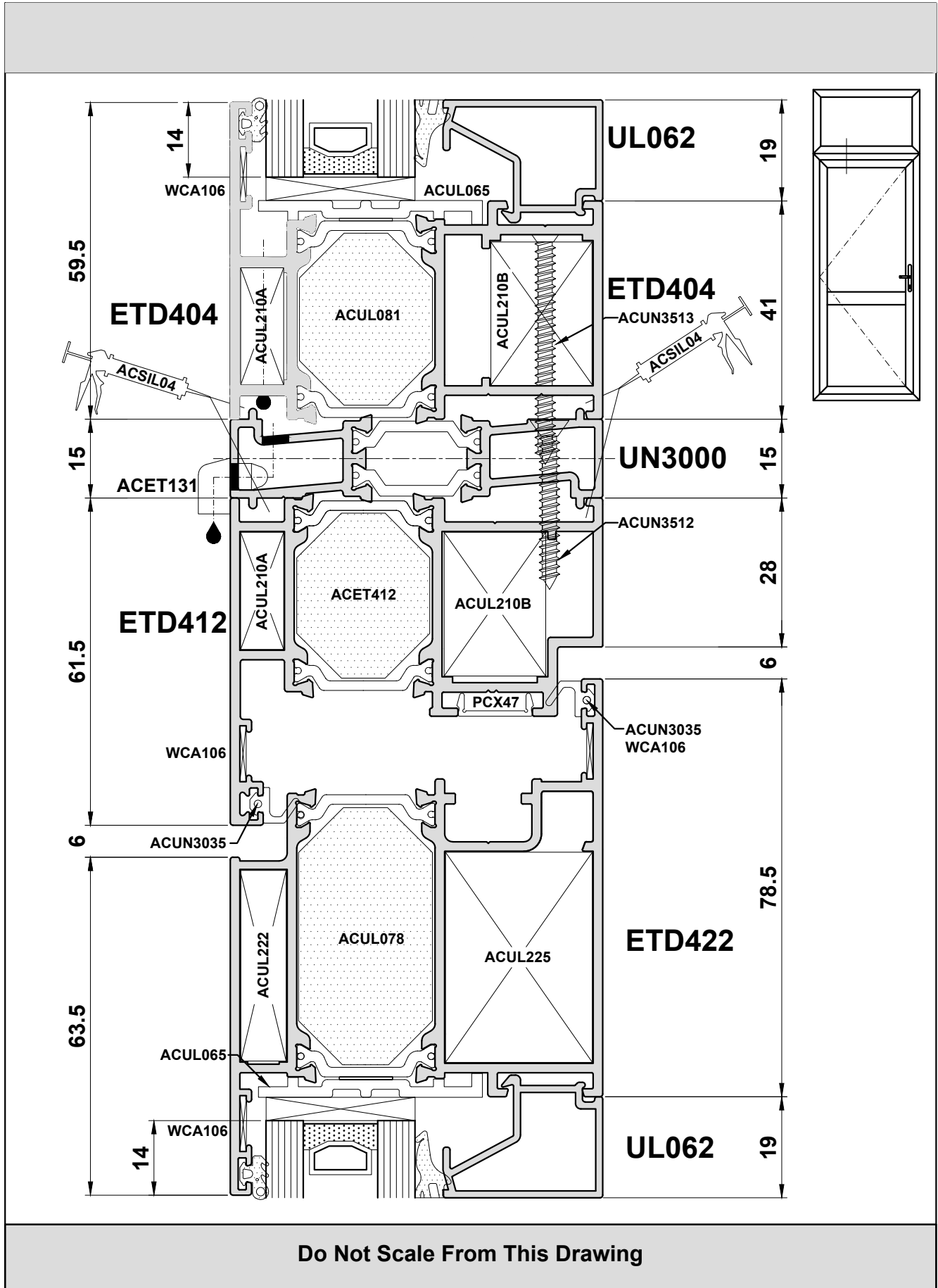
**Do Not Scale From This Drawing**



**Flush Open In - Detail 30**



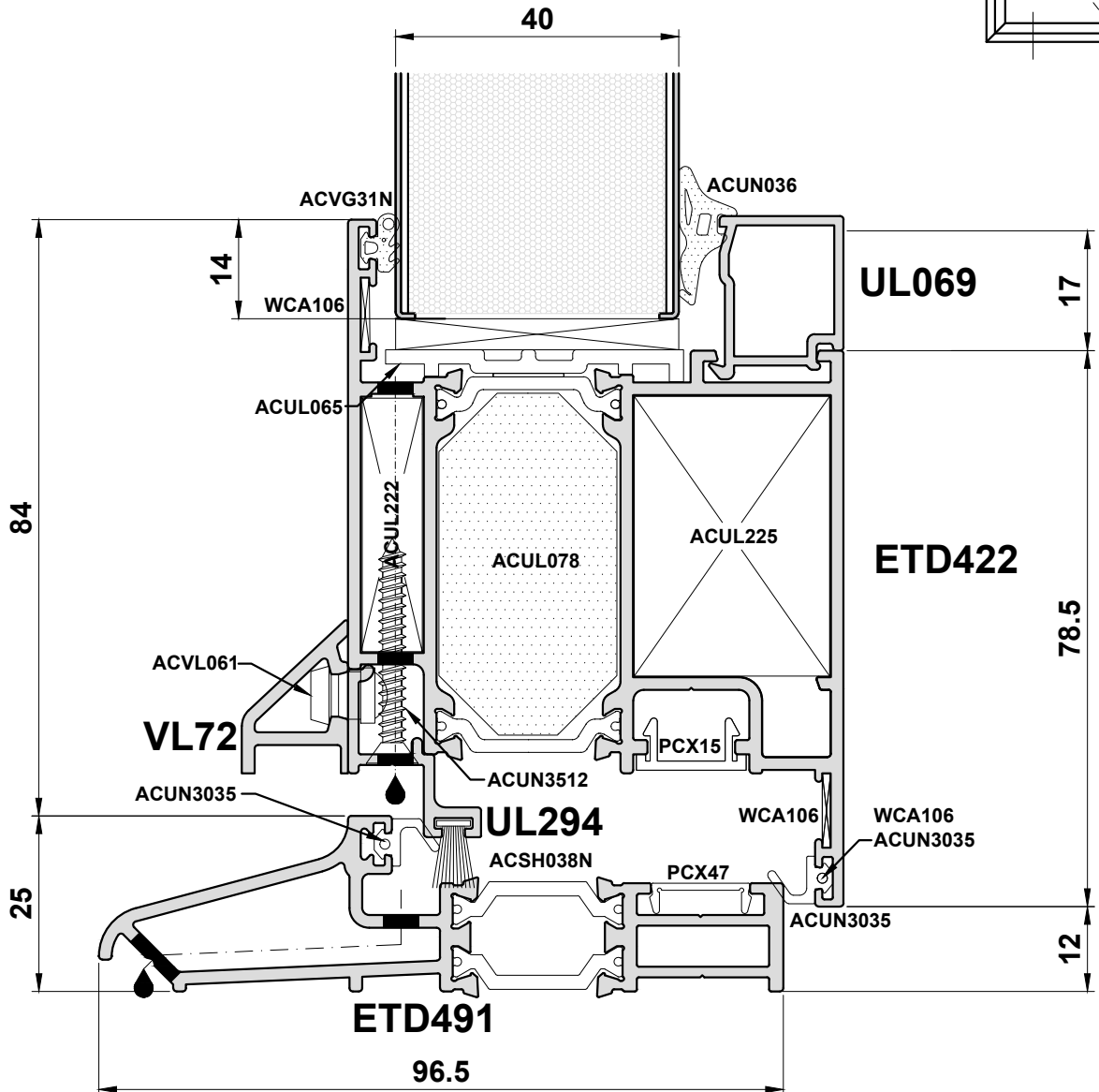
**Do Not Scale From This Drawing**



**Do Not Scale From This Drawing**

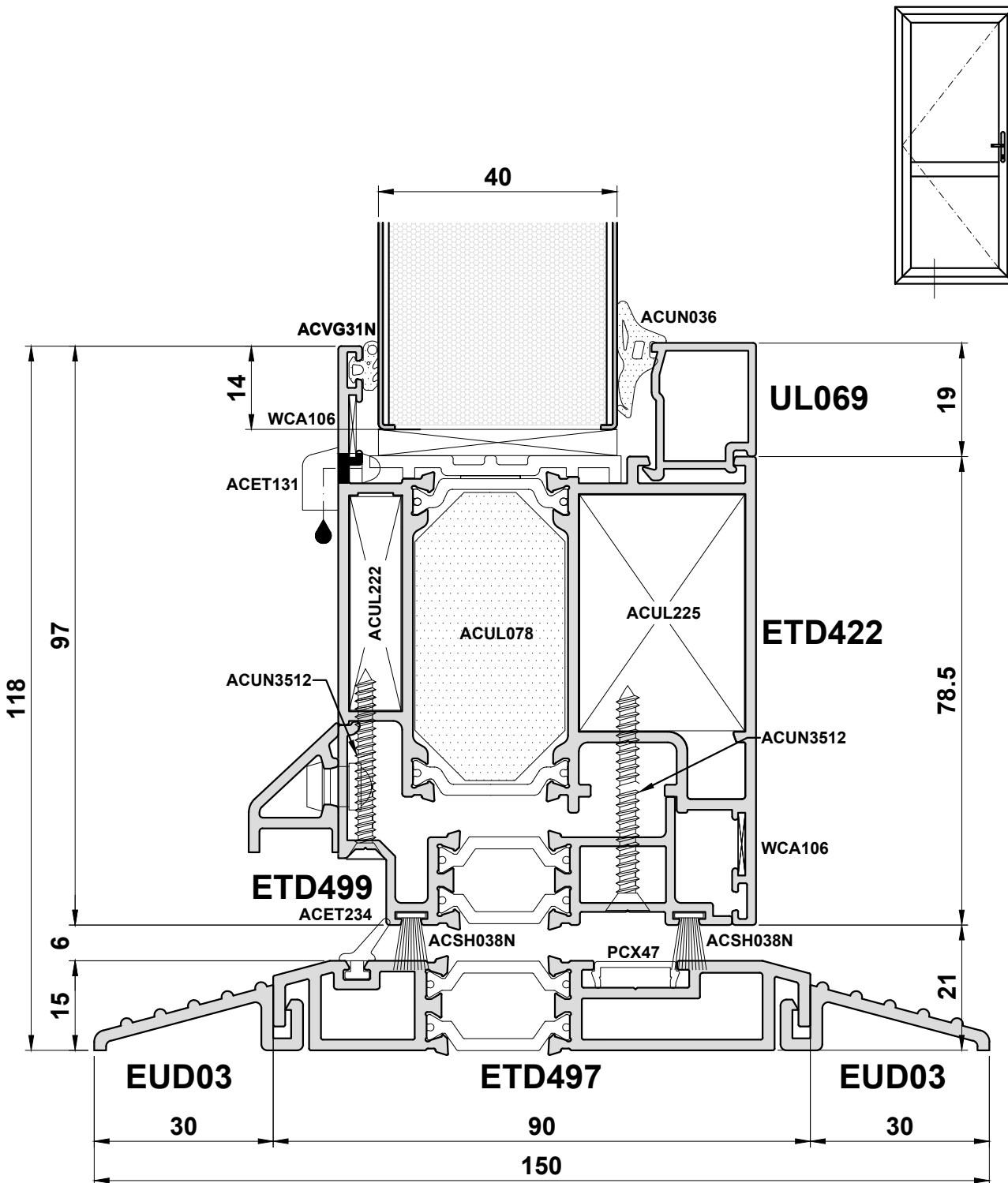


**Flush Open In - Detail 32A**



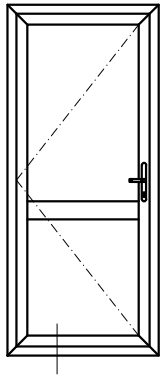
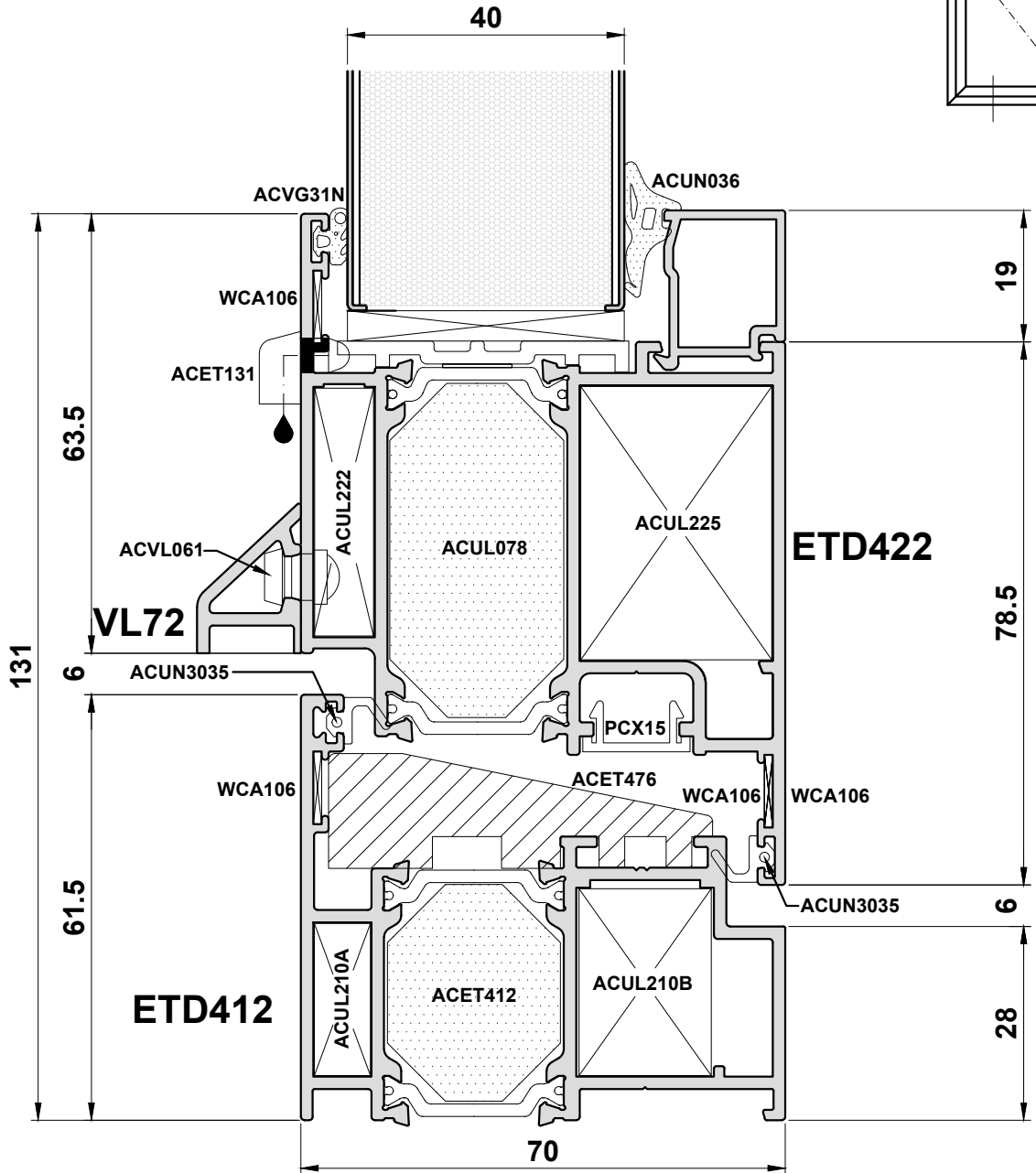
**Do Not Scale From This Drawing**

**Flush Open In - Detail 32B**



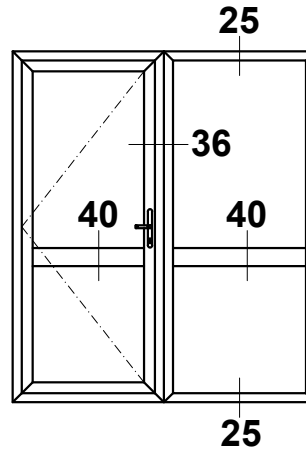
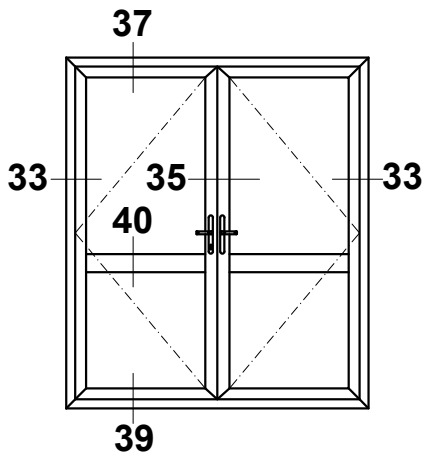
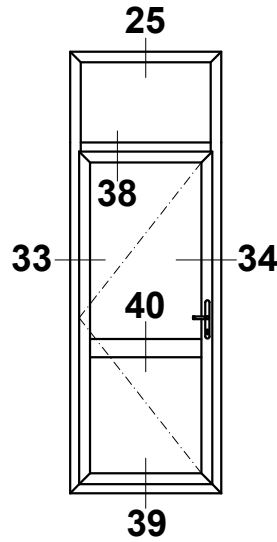
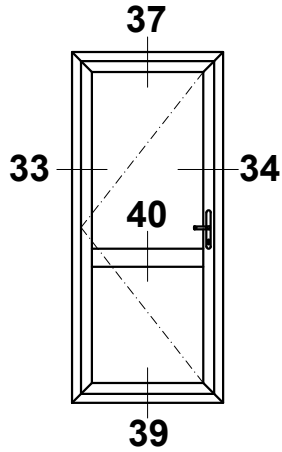
**Do Not Scale From This Drawing**

Flush Open In - Detail 32C



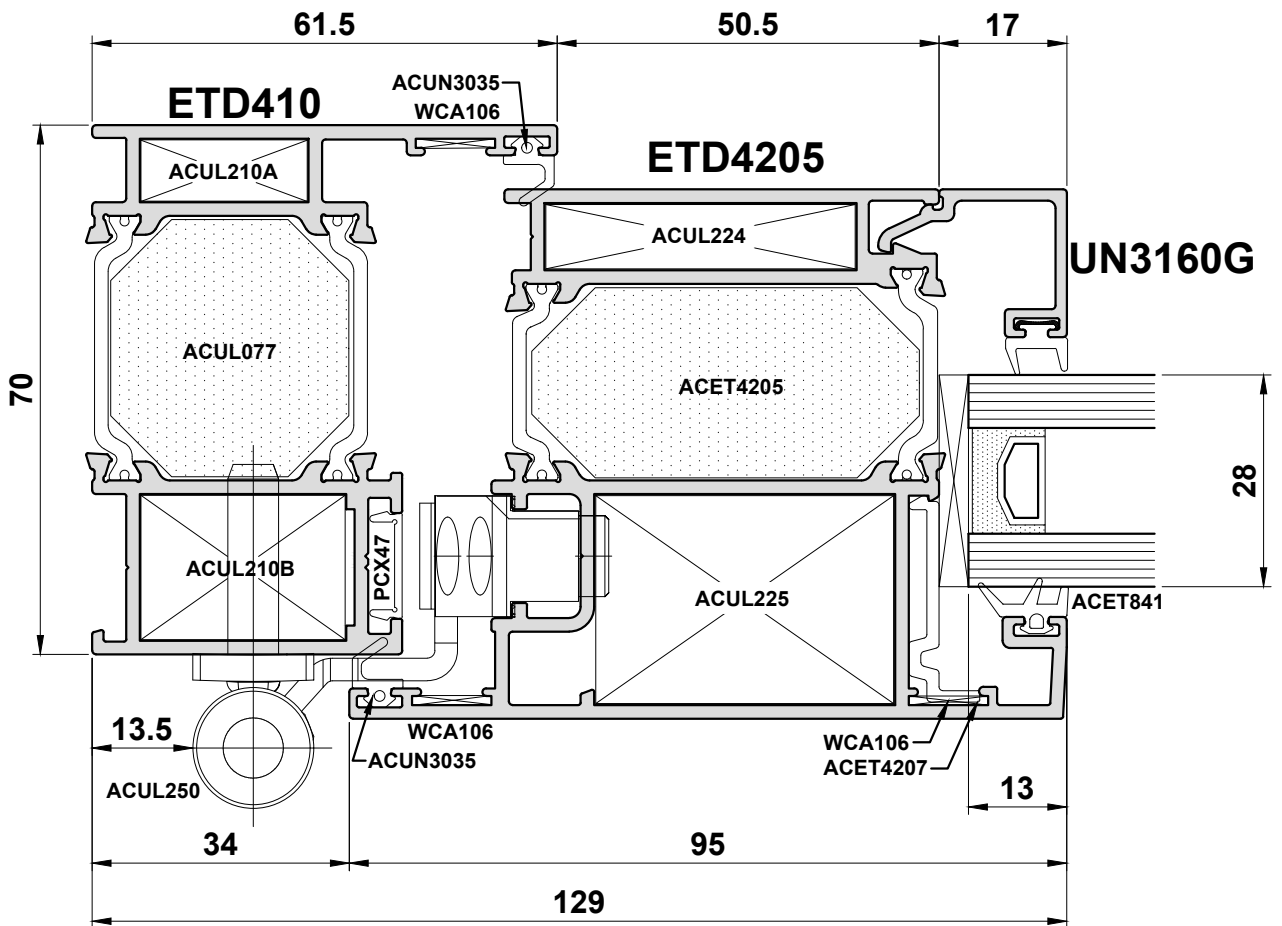
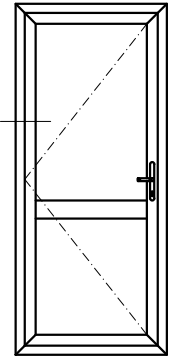
Do Not Scale From This Drawing

Stepped Open Out Tap In Bead - Elevations



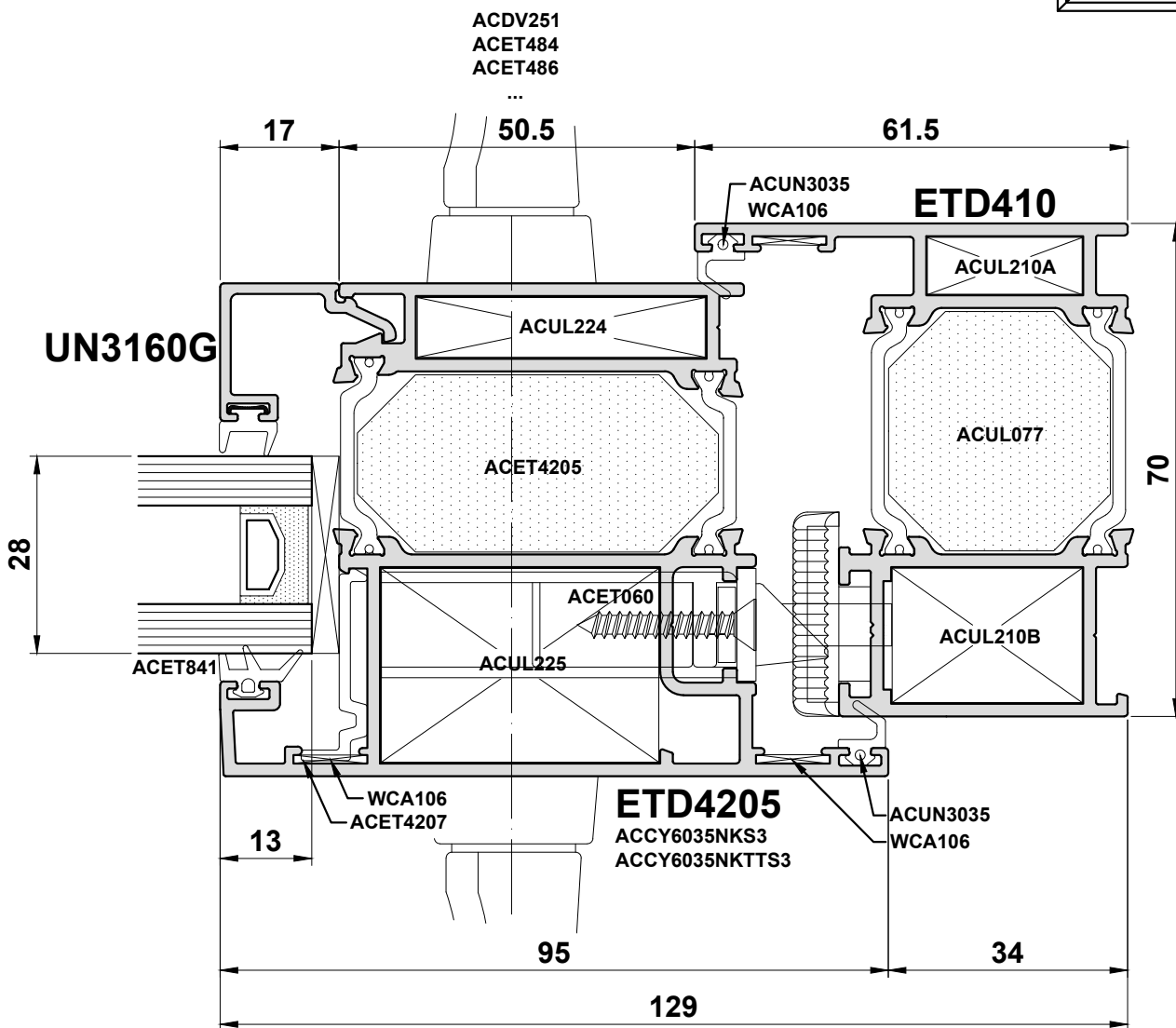
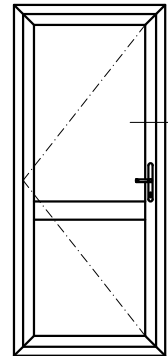
Do Not Scale From This Drawing

**Stepped Open Out - Detail 33**



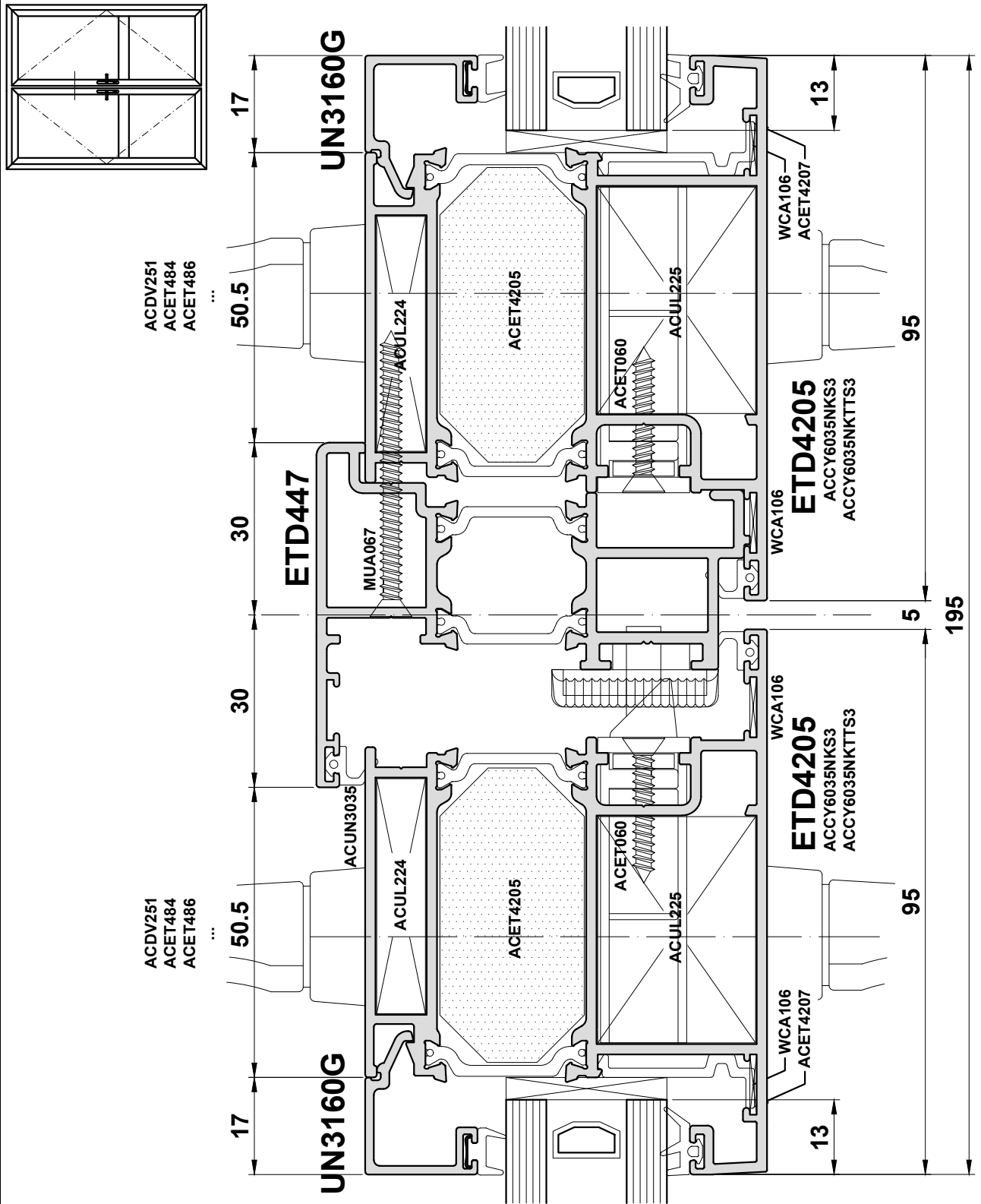
**Do Not Scale From This Drawing**

**Stepped Open Out - Detail 34**



**Do Not Scale From This Drawing**

**Stepped Open Out - Detail 35A**

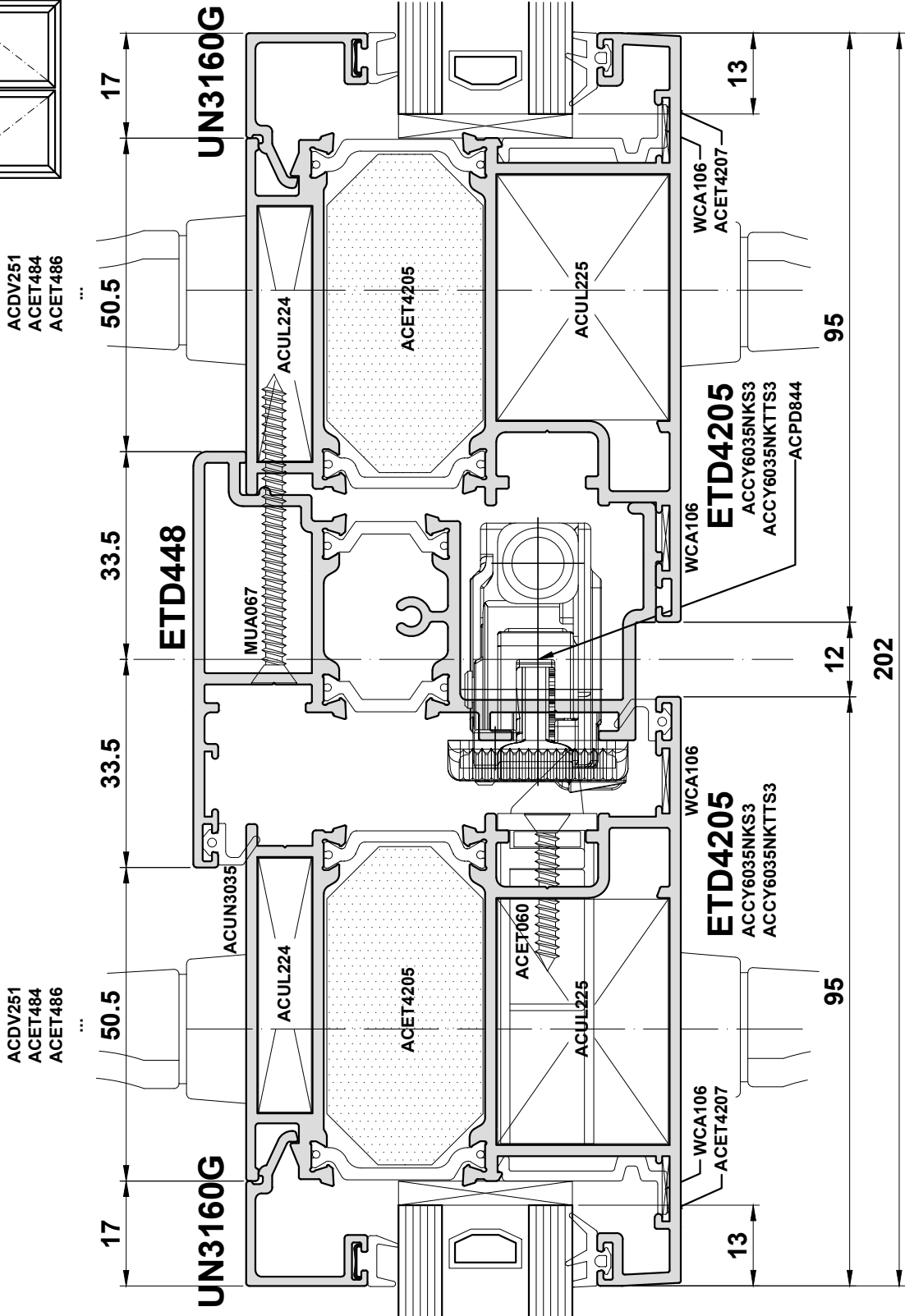
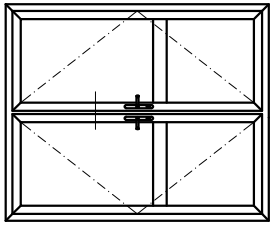


ACDV251  
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ACET484  
ACET486  
...

**Do Not Scale From This Drawing**

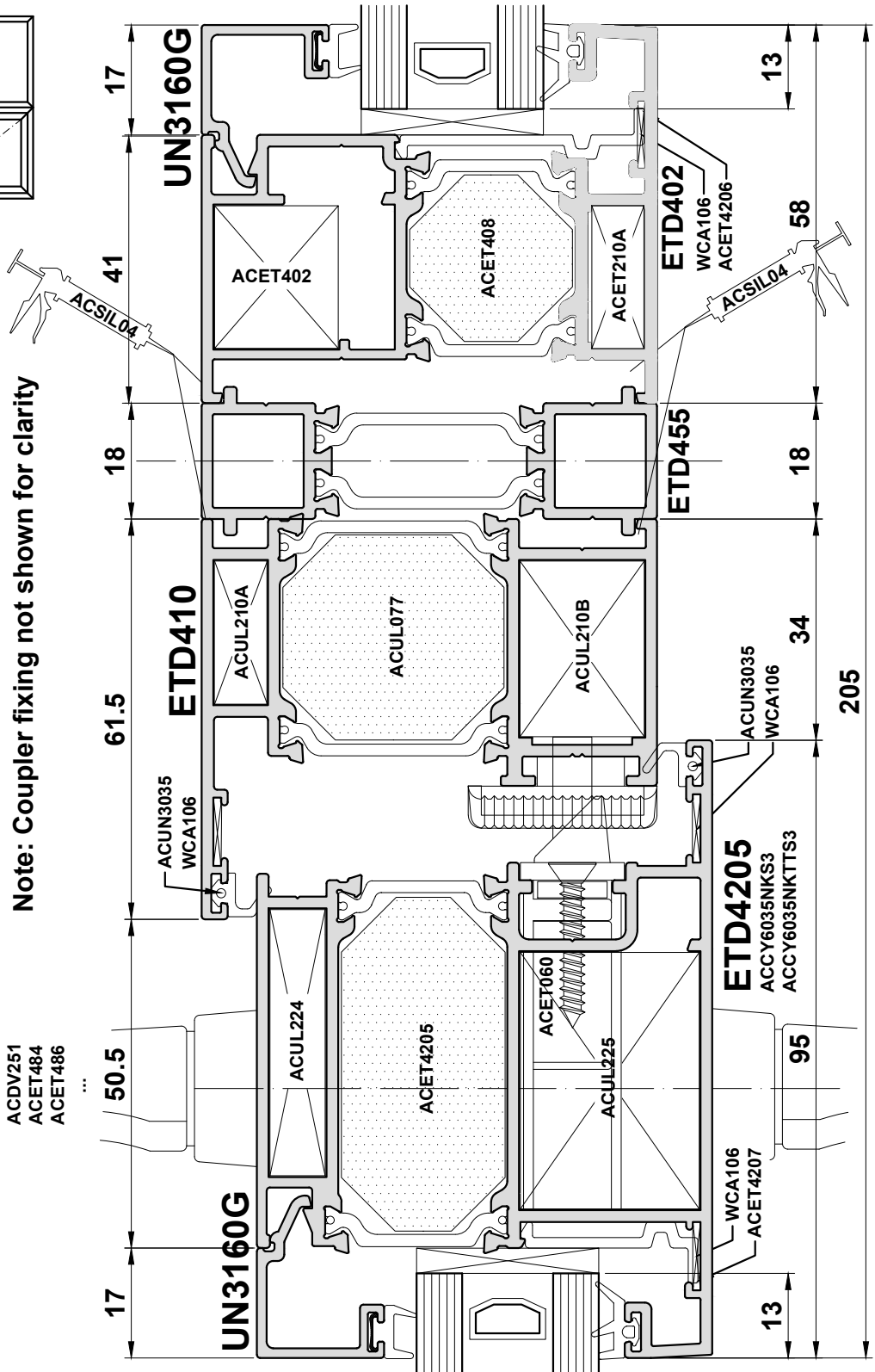
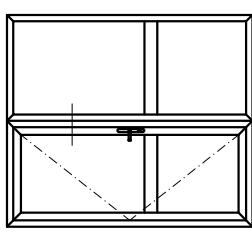
Stepped Open Out - Detail 35B



Do Not Scale From This Drawing

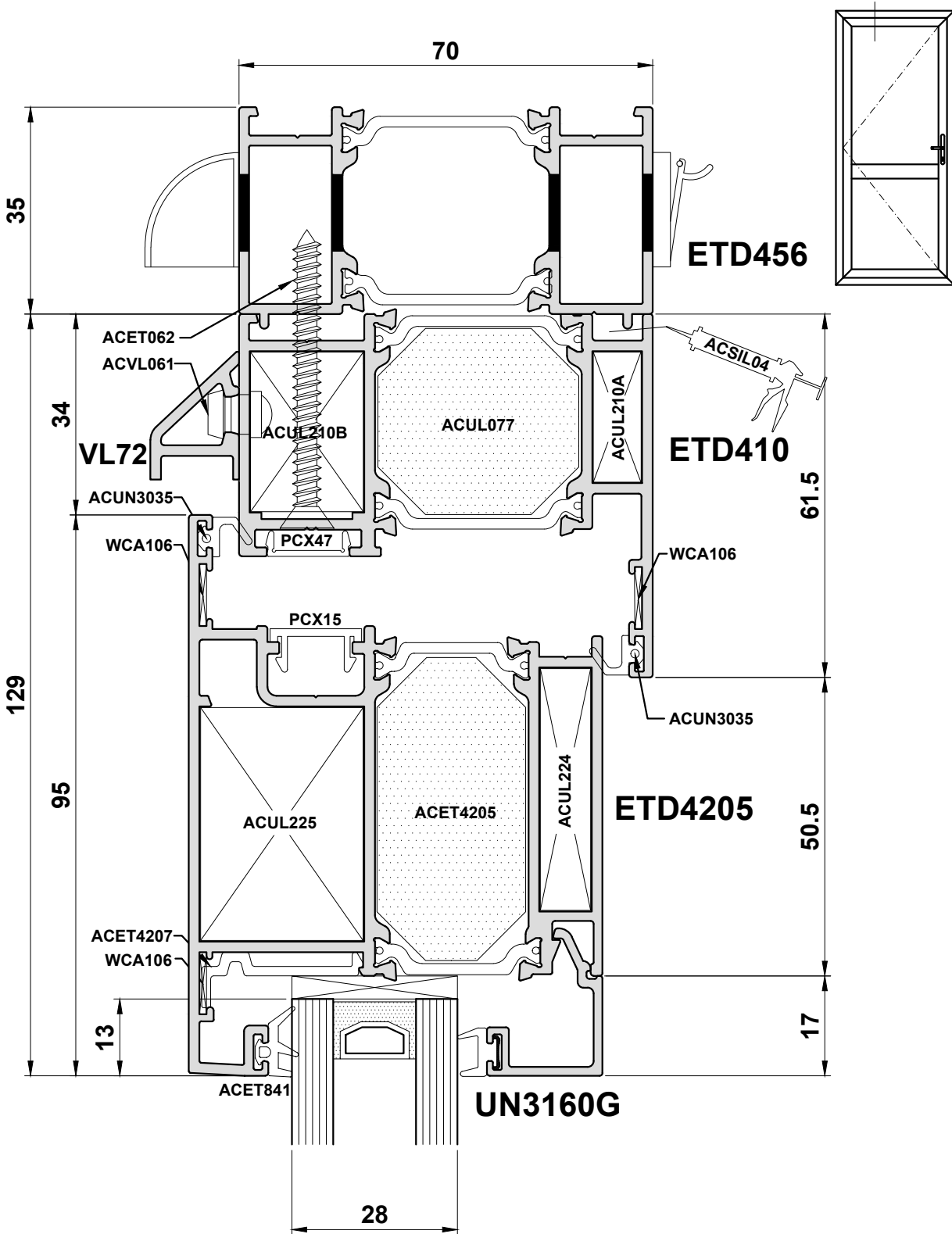


**Stepped Open Out - Detail 36**



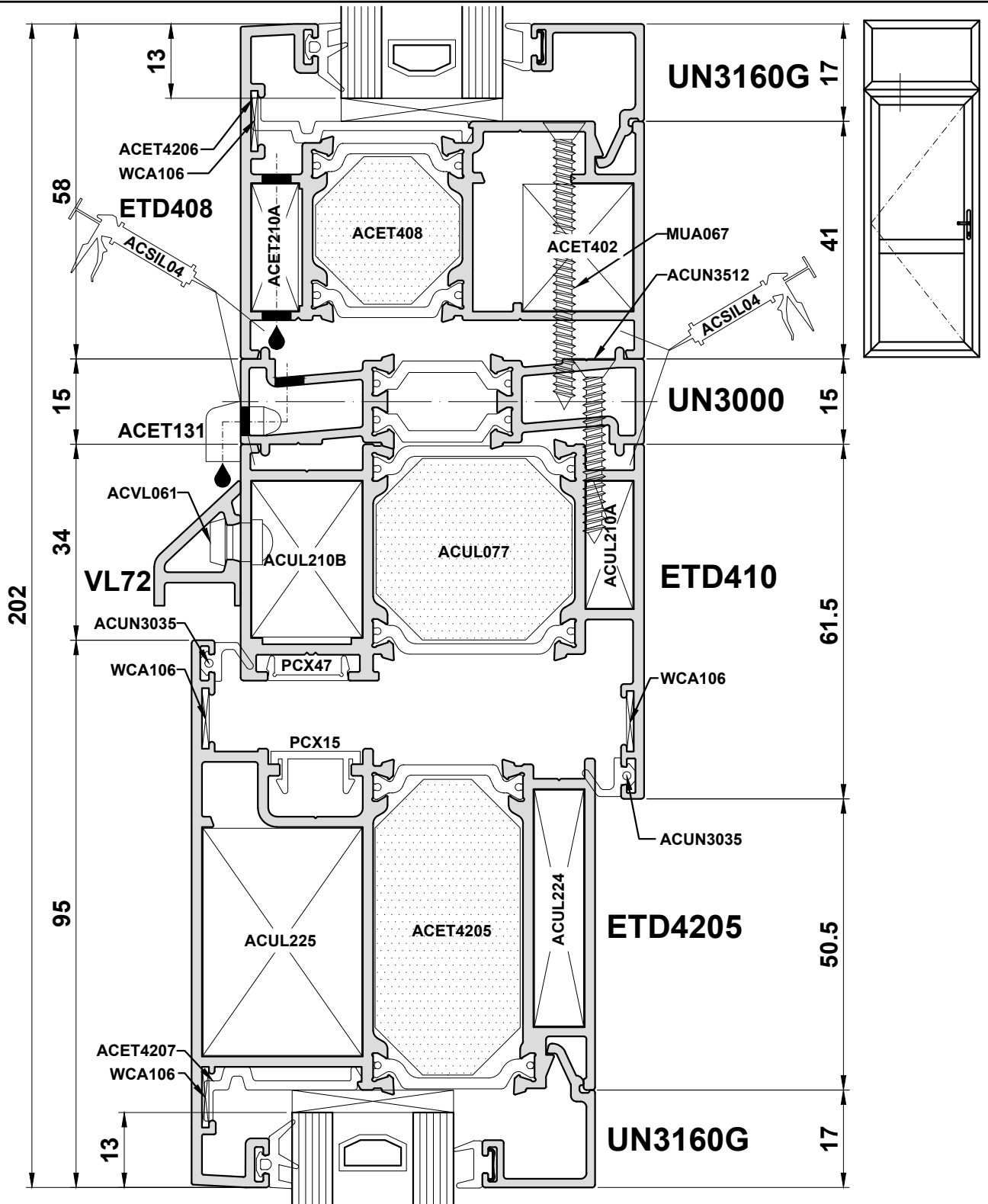
**Do Not Scale From This Drawing**

**Stepped Open Out - Detail 37**



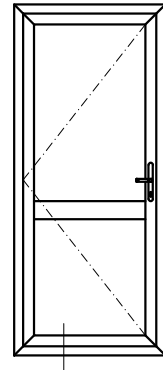
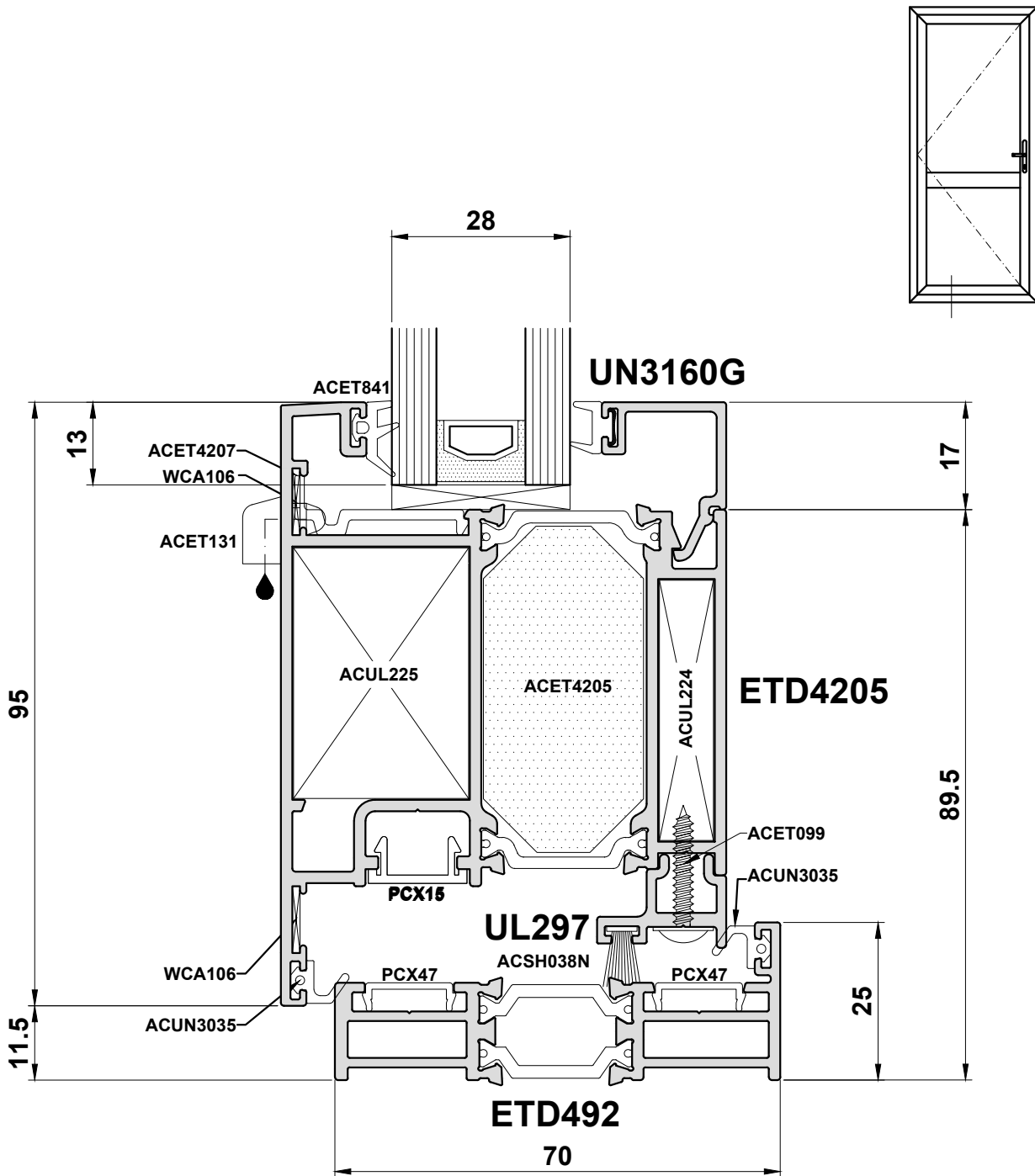
**Do Not Scale From This Drawing**

**Stepped Open Out - Detail 38**



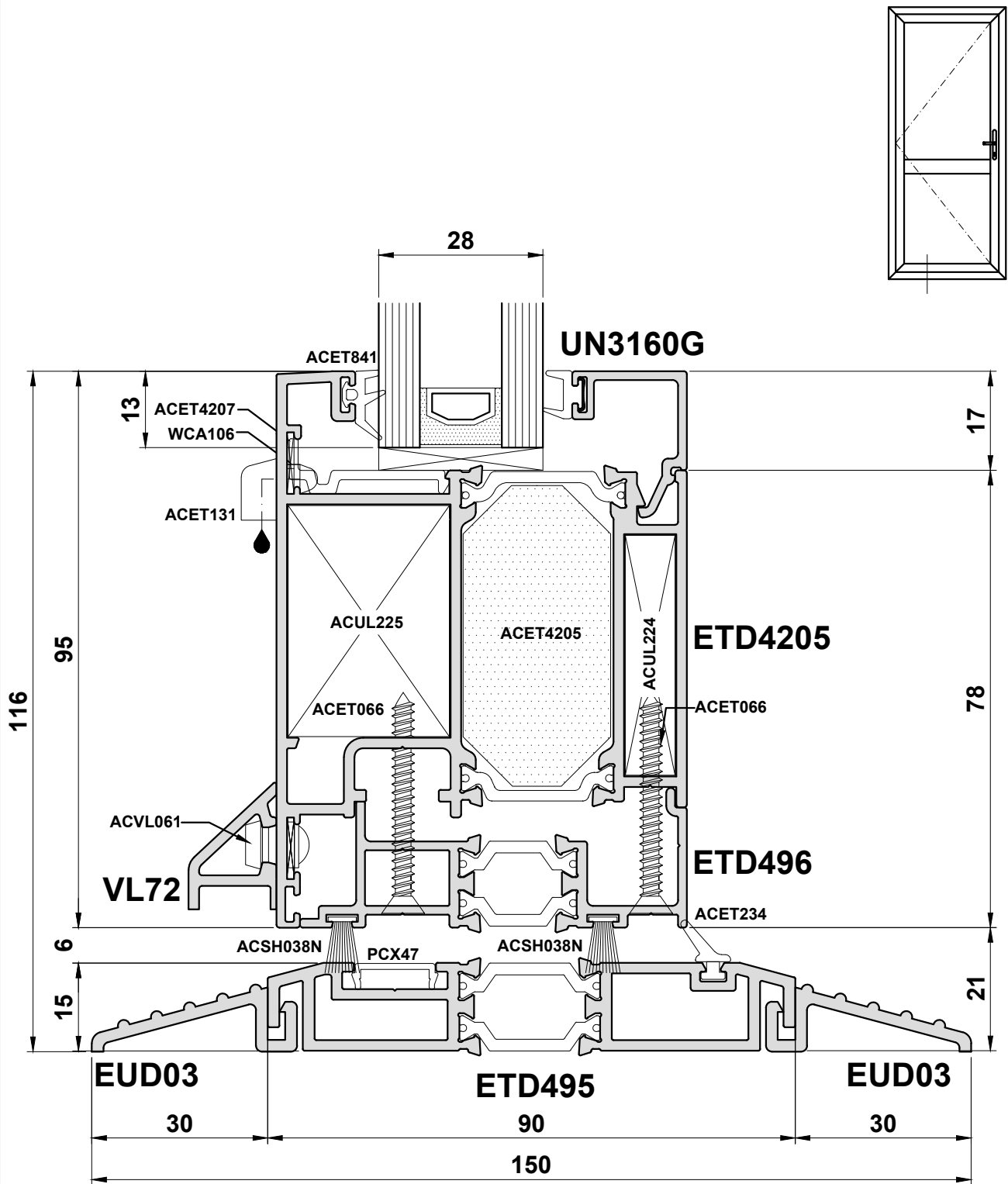
**Do Not Scale From This Drawing**

**Stepped Open Out - Detail 39A**



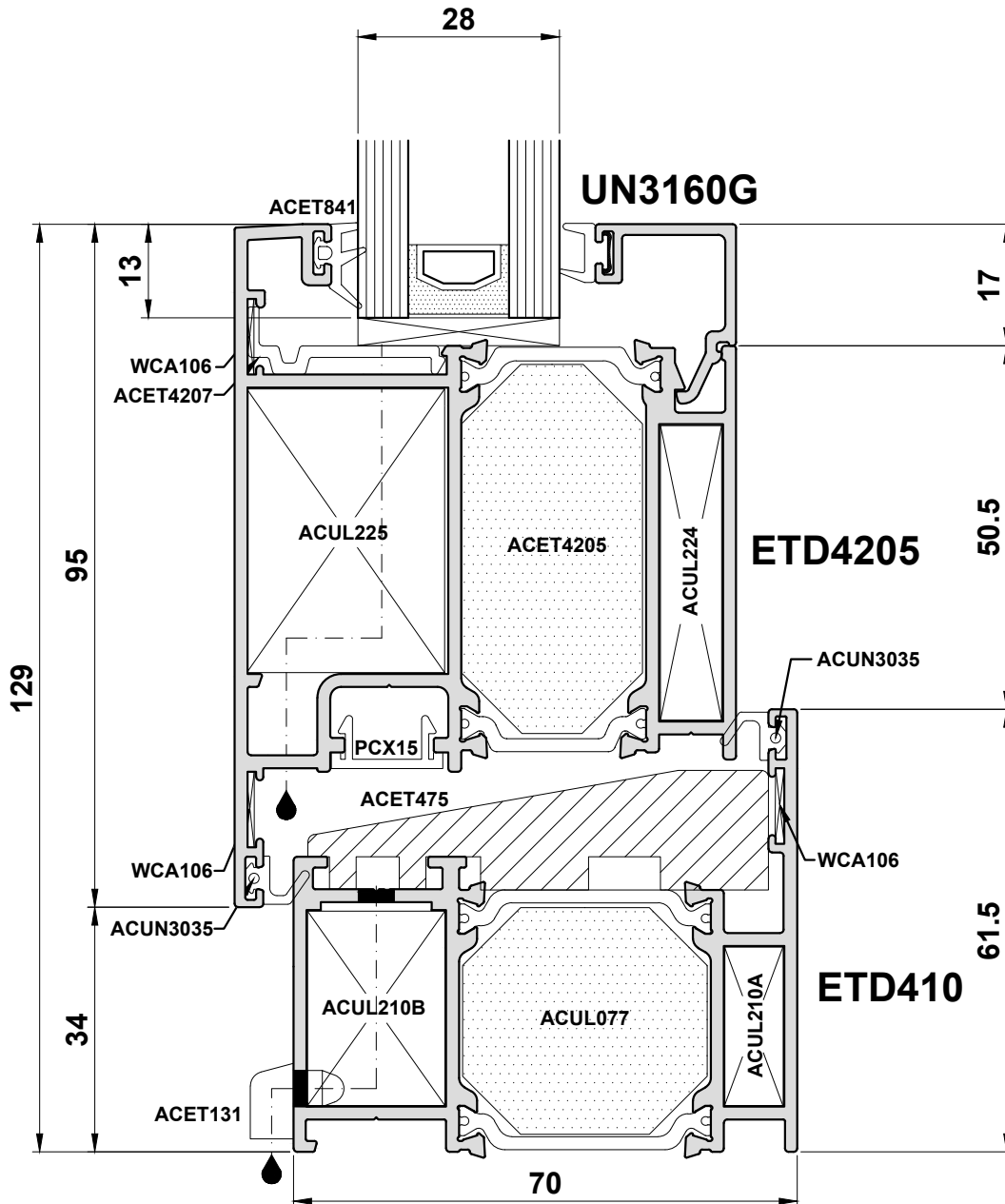
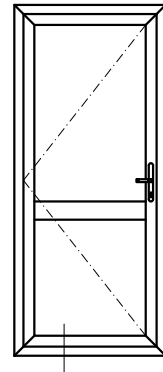
**Do Not Scale From This Drawing**

**Stepped Open Out - Detail 39B**



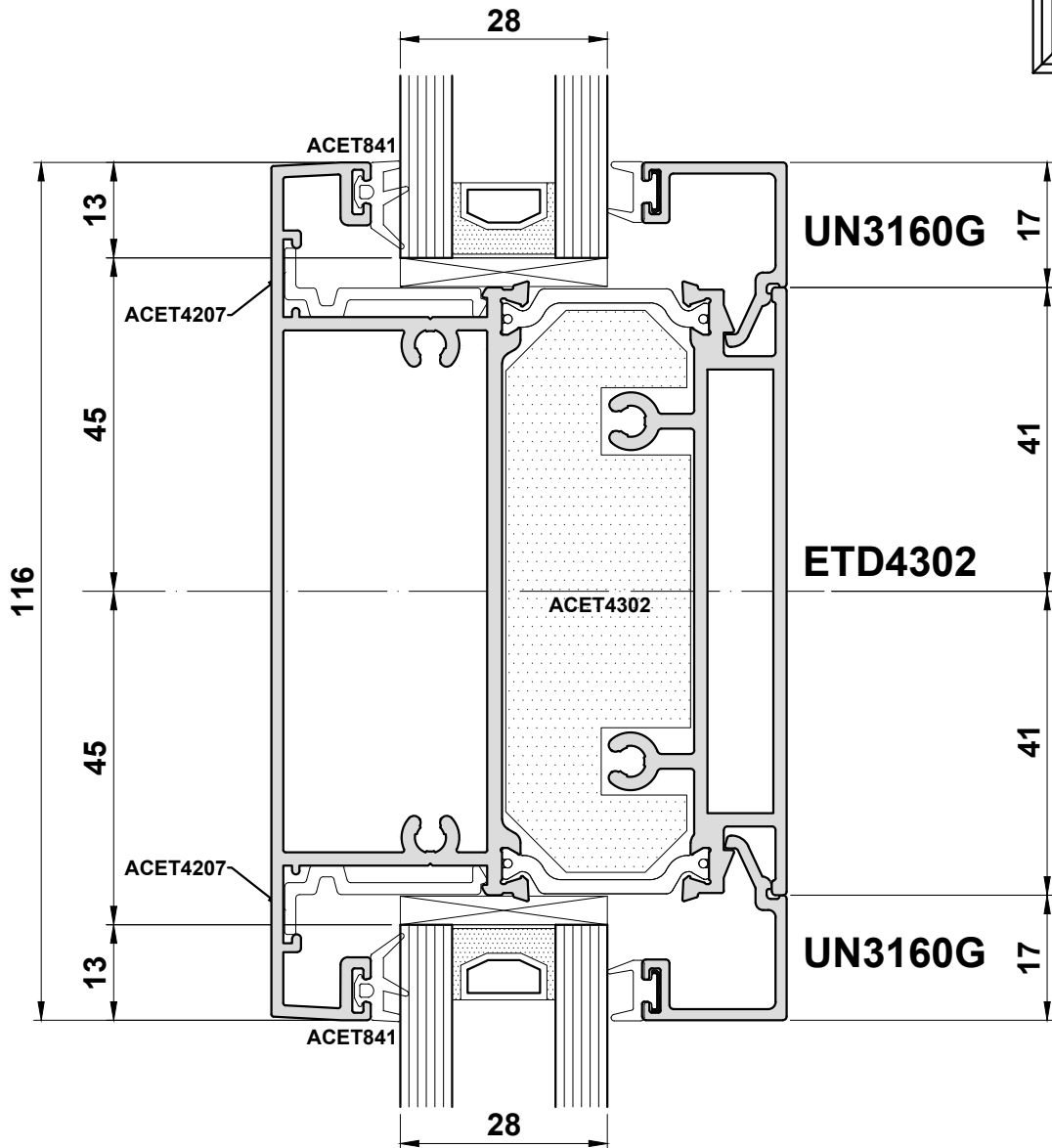
**Do Not Scale From This Drawing**

**Stepped Open Out - Detail 39C**



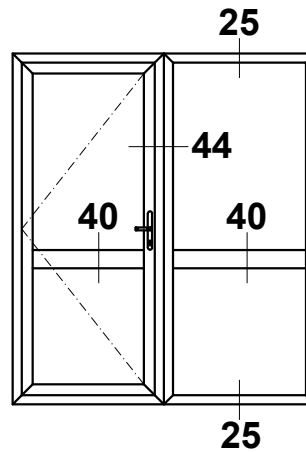
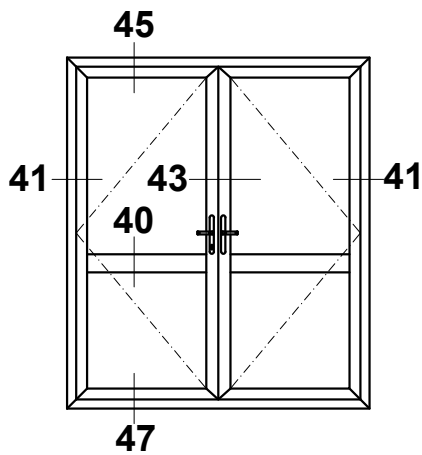
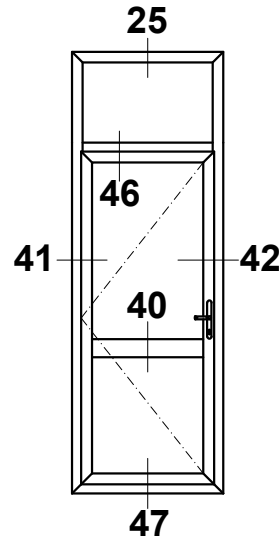
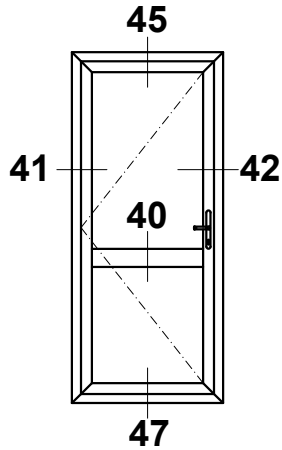
**Do Not Scale From This Drawing**

**Stepped Open Out - Detail 40**



**Do Not Scale From This Drawing**

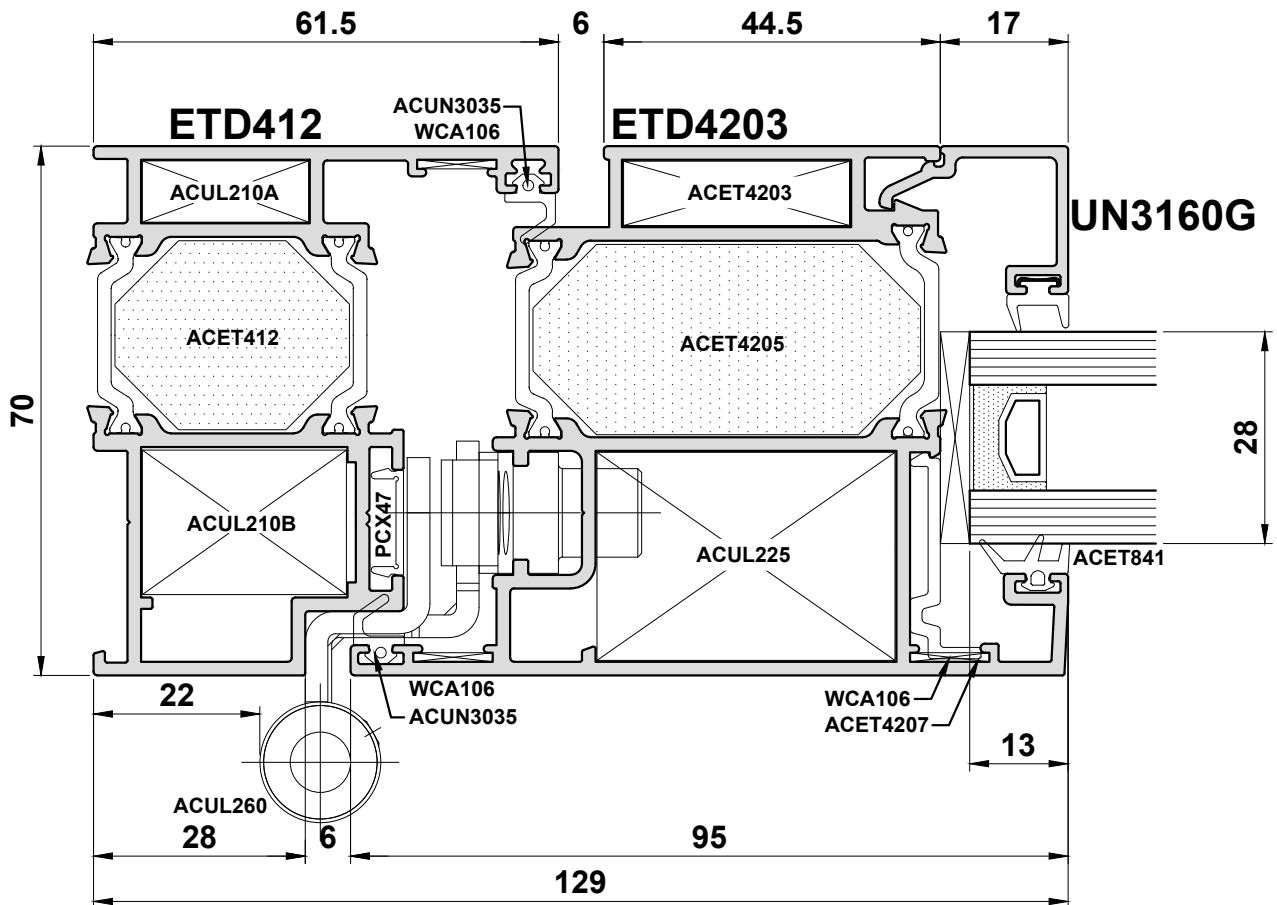
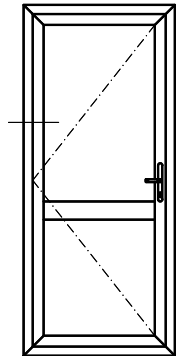
Flush Open Out Tap In Bead - Elevations



Do Not Scale From This Drawing

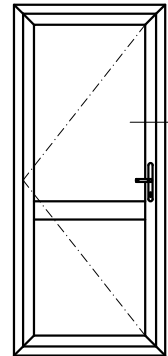


**Flush Open Out - Detail 41**

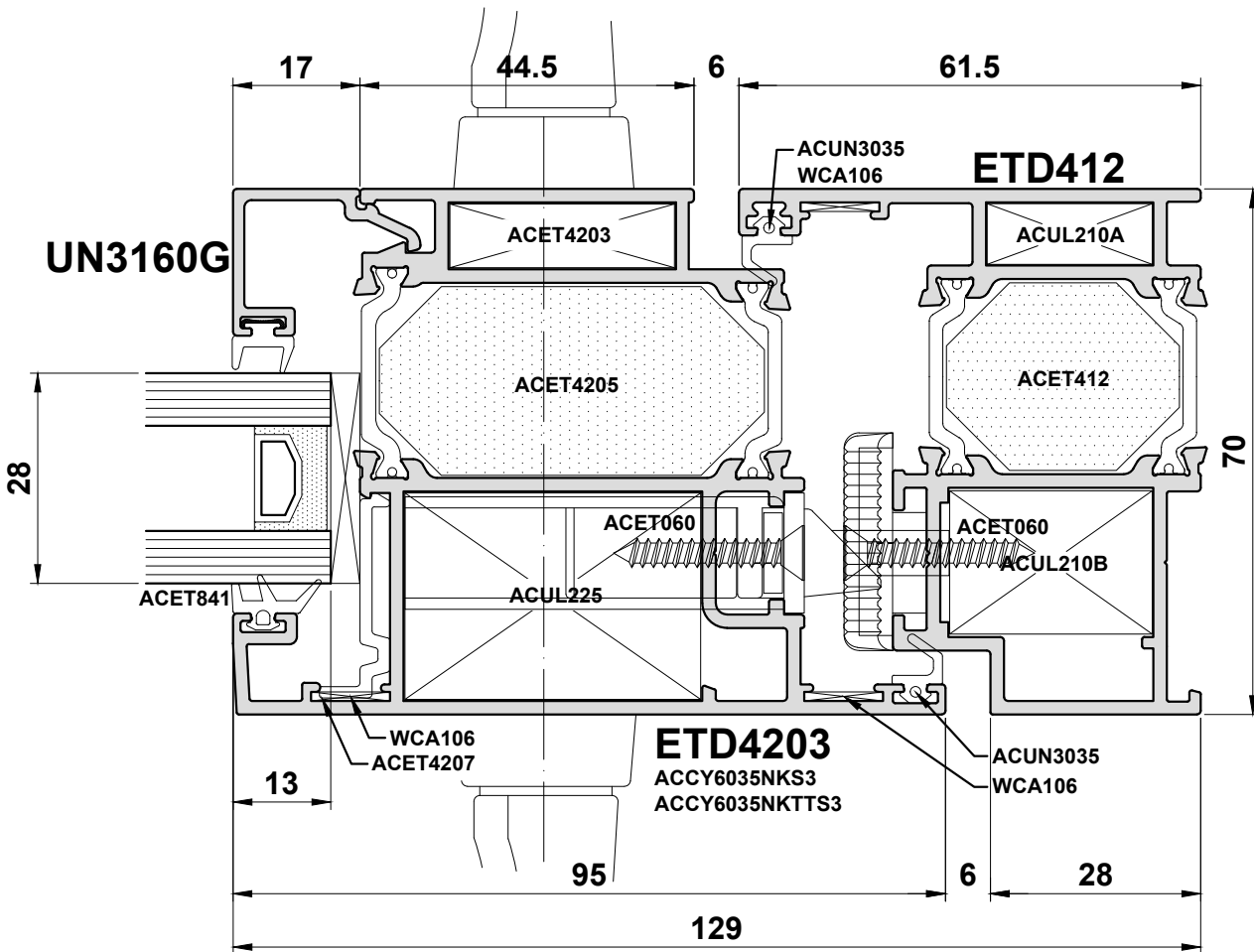


**Do Not Scale From This Drawing**

**Flush Open Out - Detail 42**

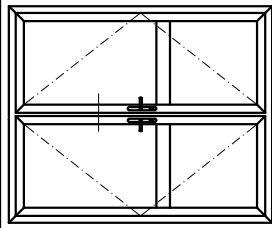


ACDV251  
ACET484  
ACET486  
...



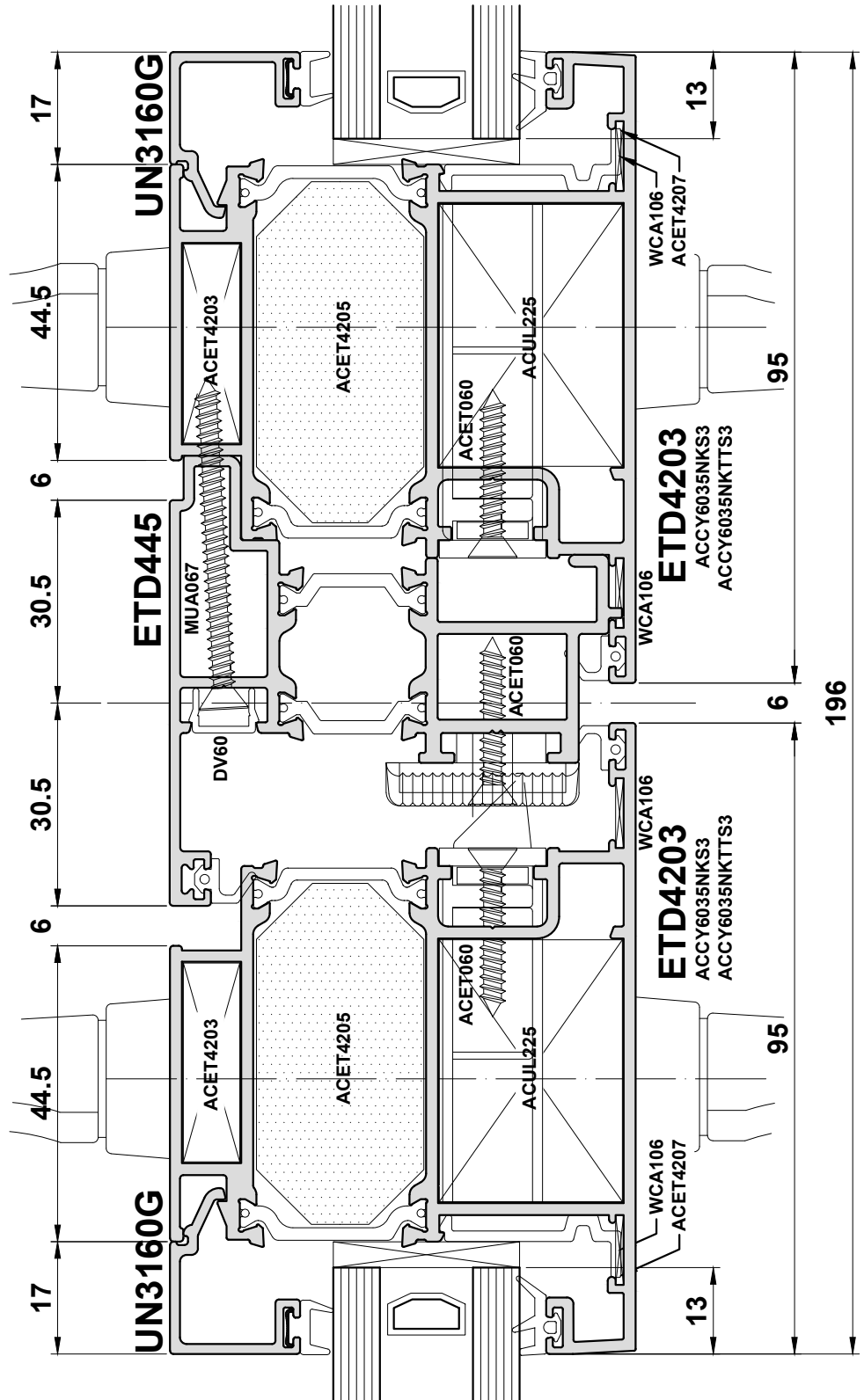
**Do Not Scale From This Drawing**

**Flush Open Out - Detail 43A**



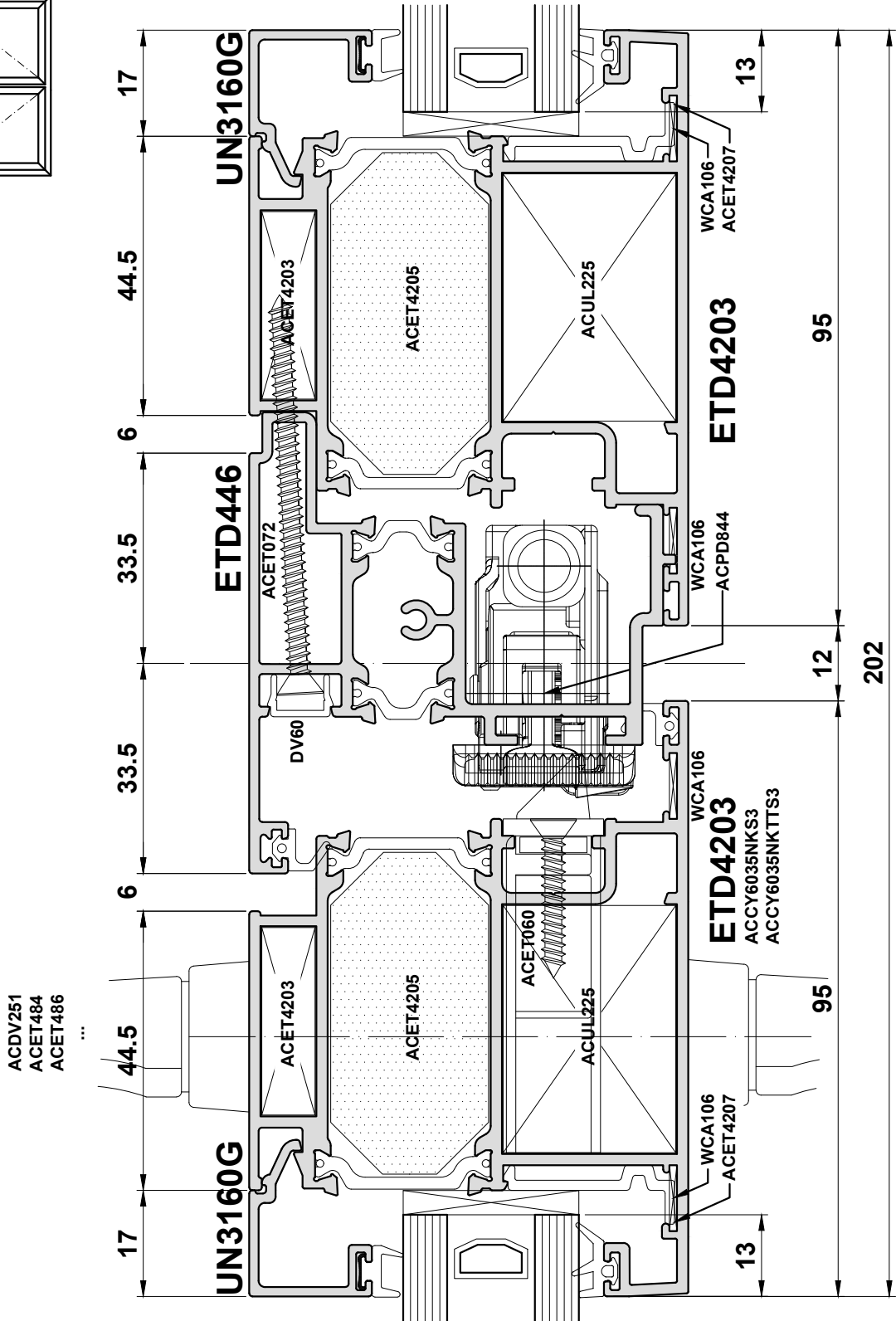
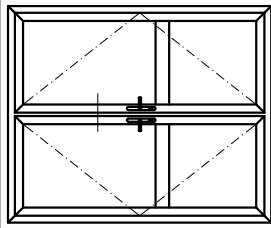
ACDV251  
ACET484  
ACET486  
...

ACDV251  
ACET484  
ACET486  
...



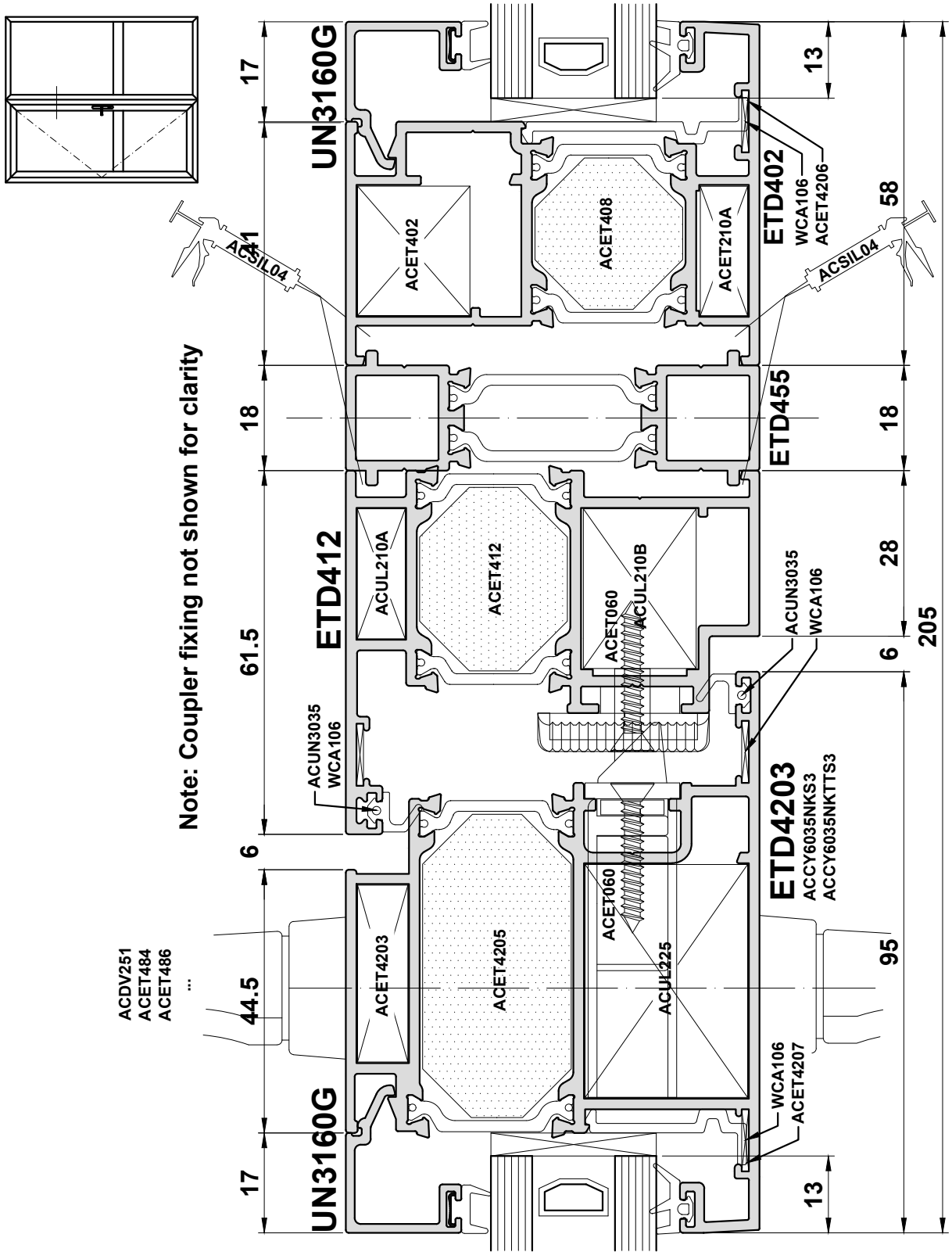
**Do Not Scale From This Drawing**

Flush Open Out - Detail 43B



Do Not Scale From This Drawing

**Flush Open Out - Detail 44**

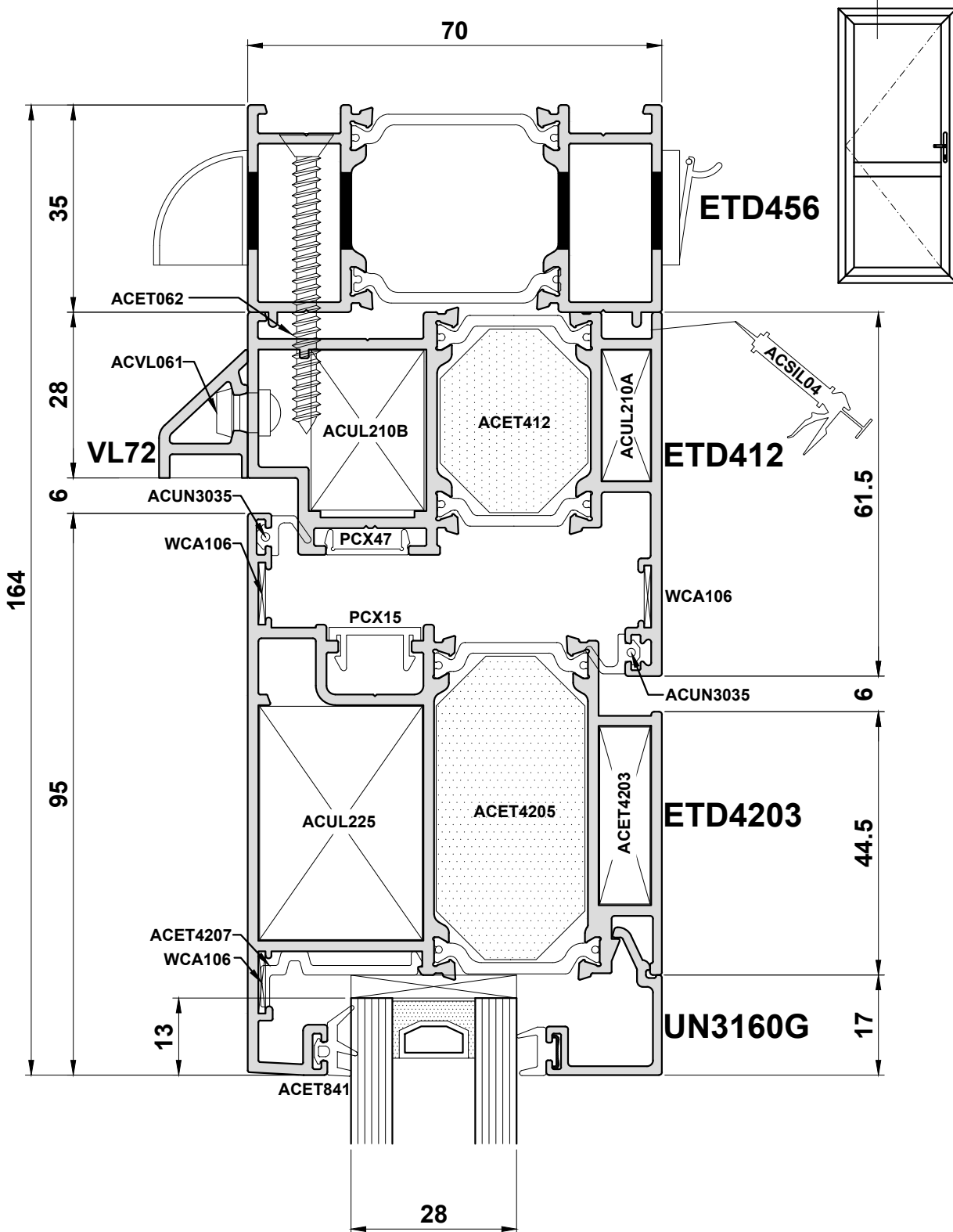


Note: Coupler fixing not shown for clarity

ACDV251  
ACET484  
ACET486  
...

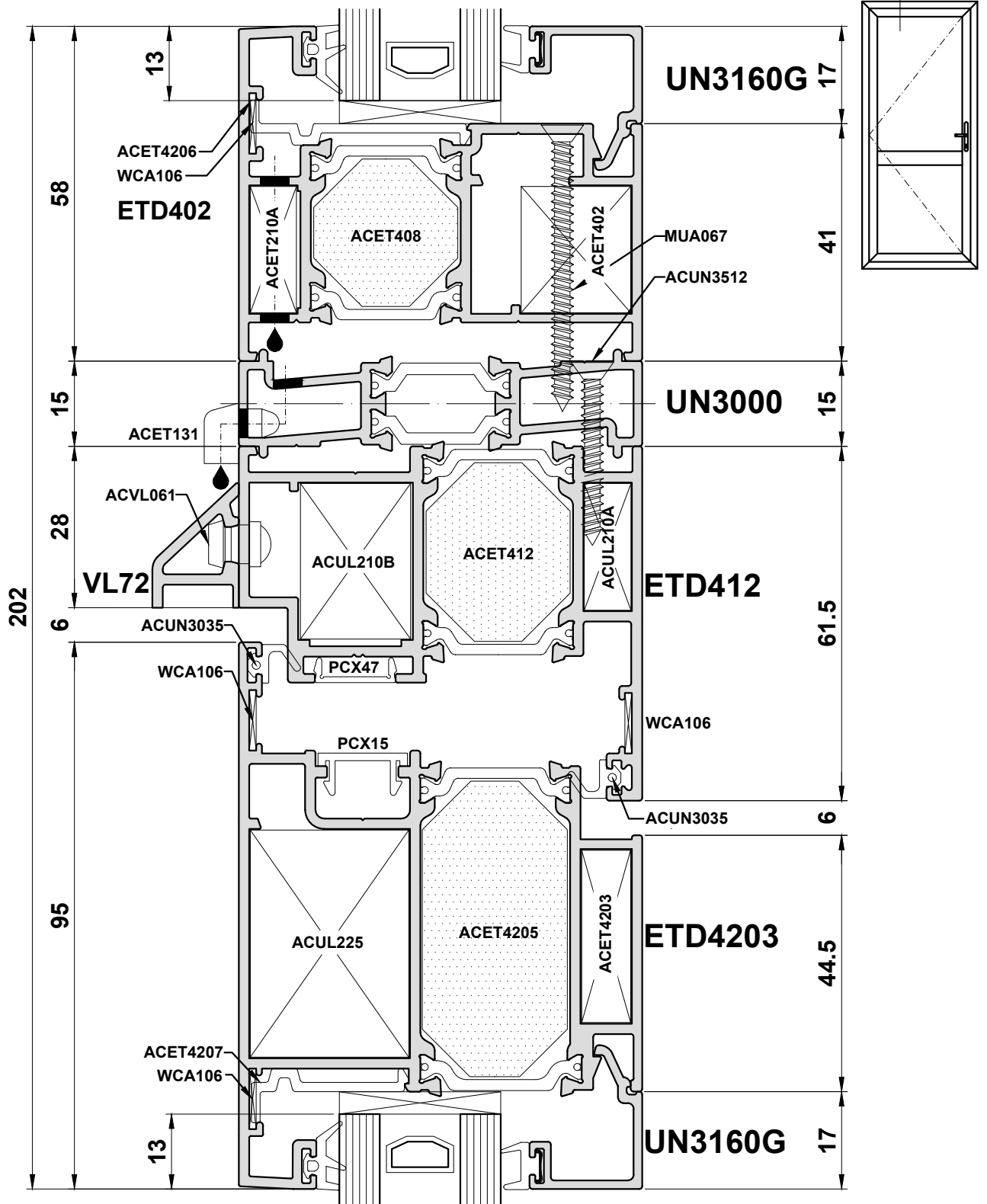
**Do Not Scale From This Drawing**

**Flush Open Out - Detail 45**



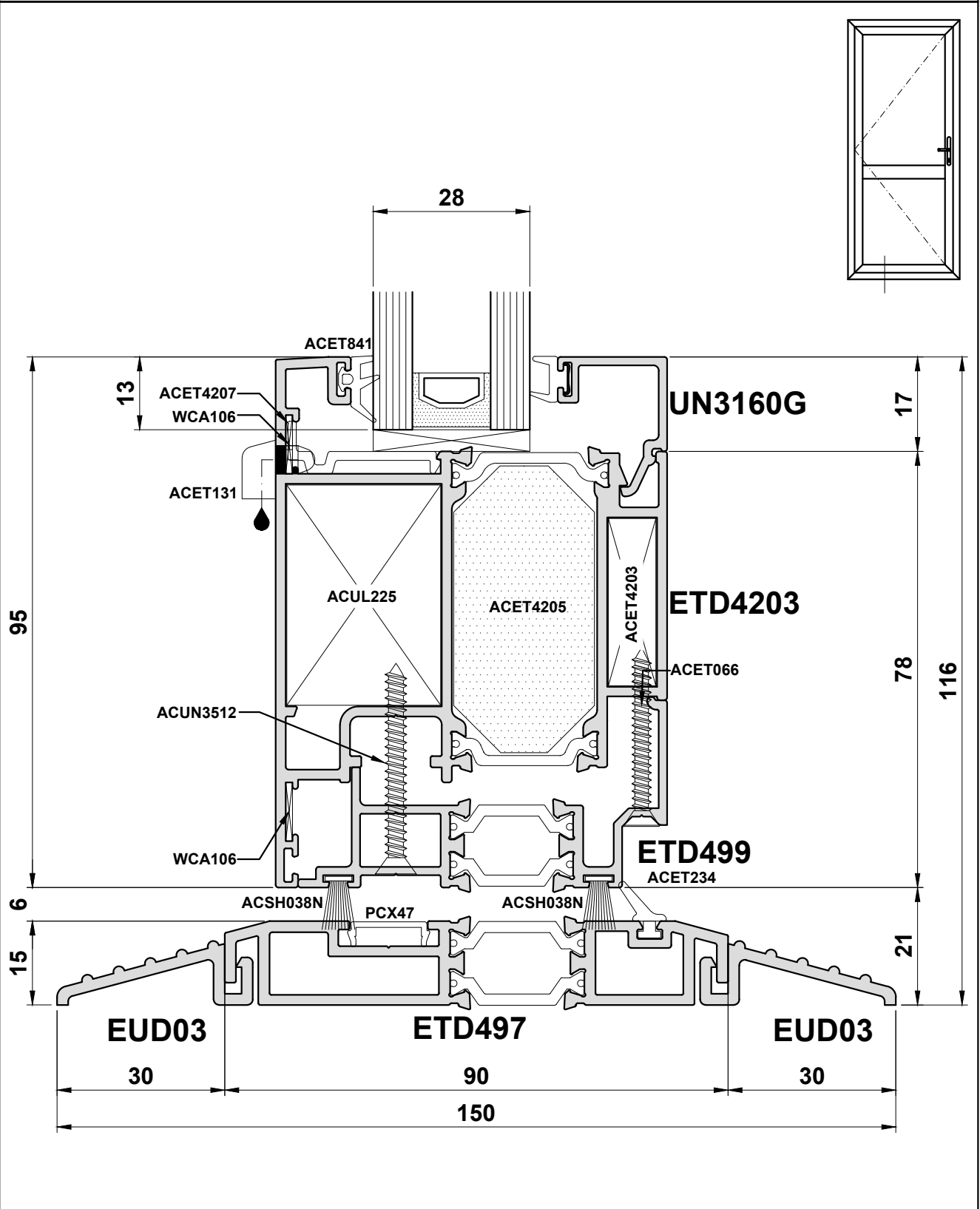
**Do Not Scale From This Drawing**

**Flush Open Out - Detail 46**



**Do Not Scale From This Drawing**

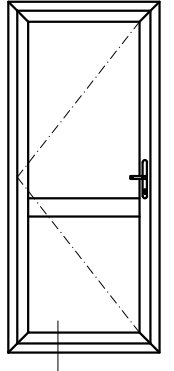
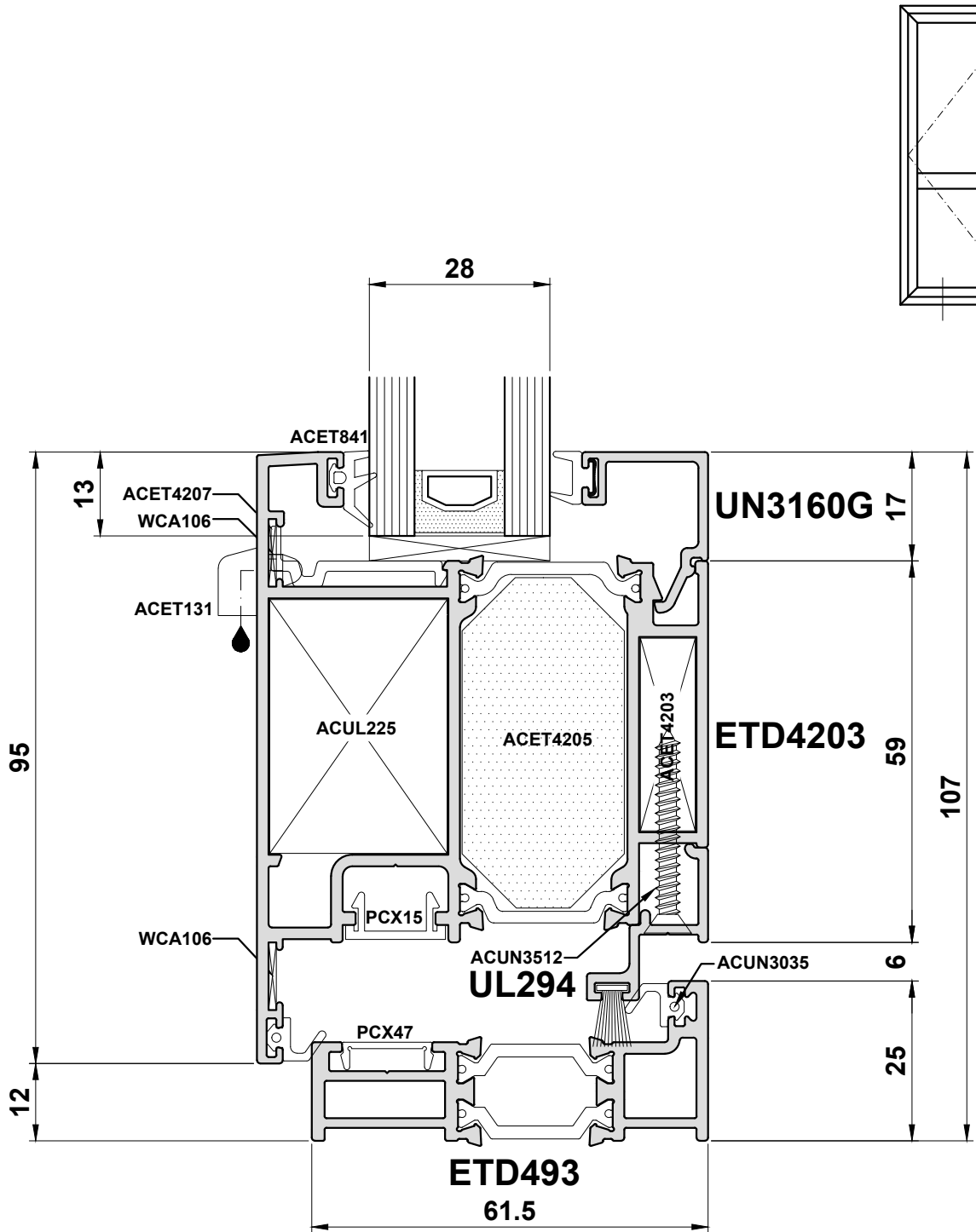
**Flush Open Out - Detail 47A**



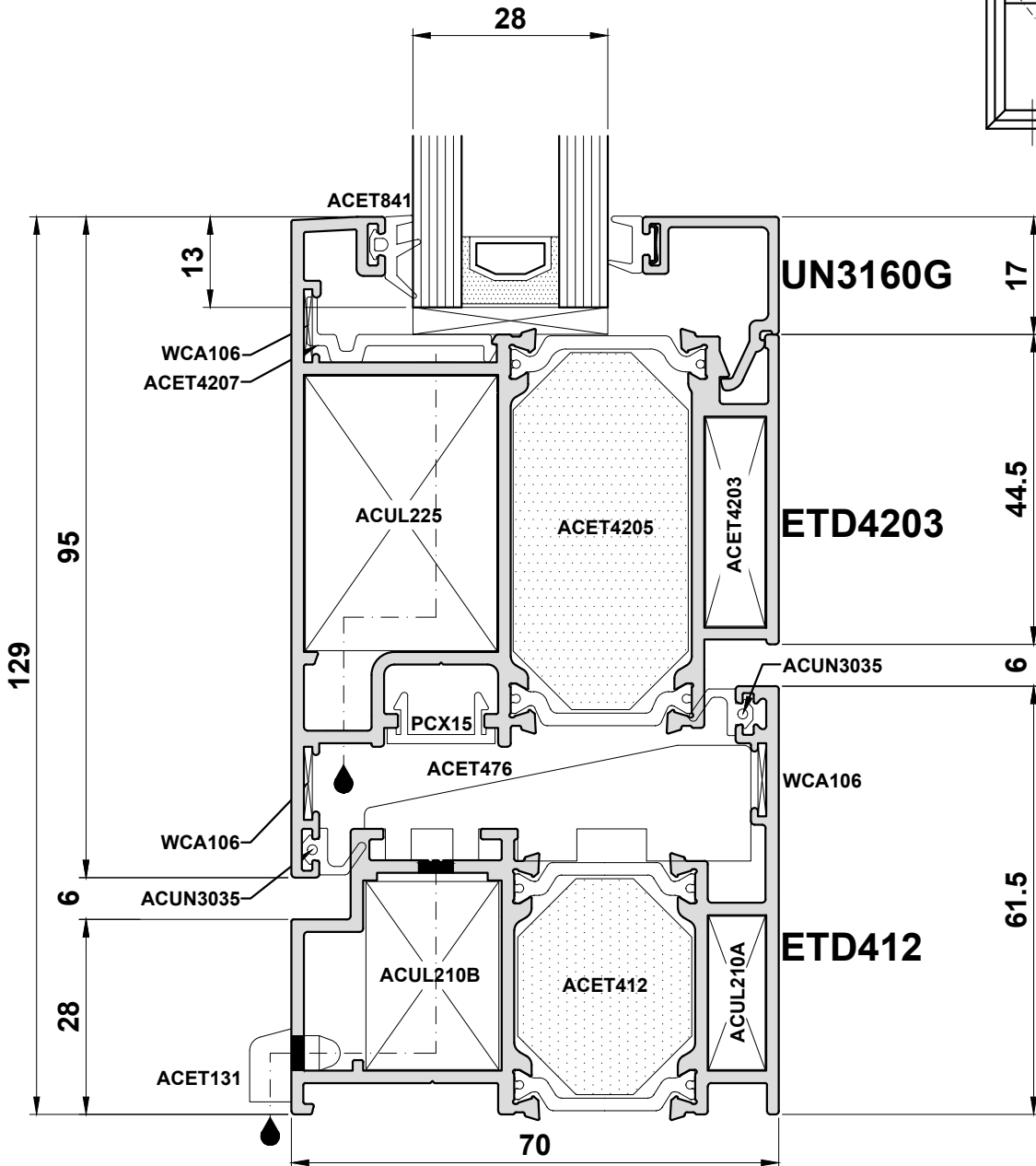
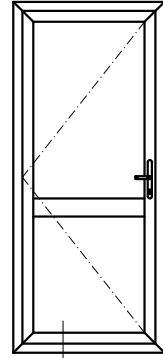
**Do Not Scale From This Drawing**



**Flush Open Out - Detail 47B**



**Do Not Scale From This Drawing**



**Do Not Scale From This Drawing**

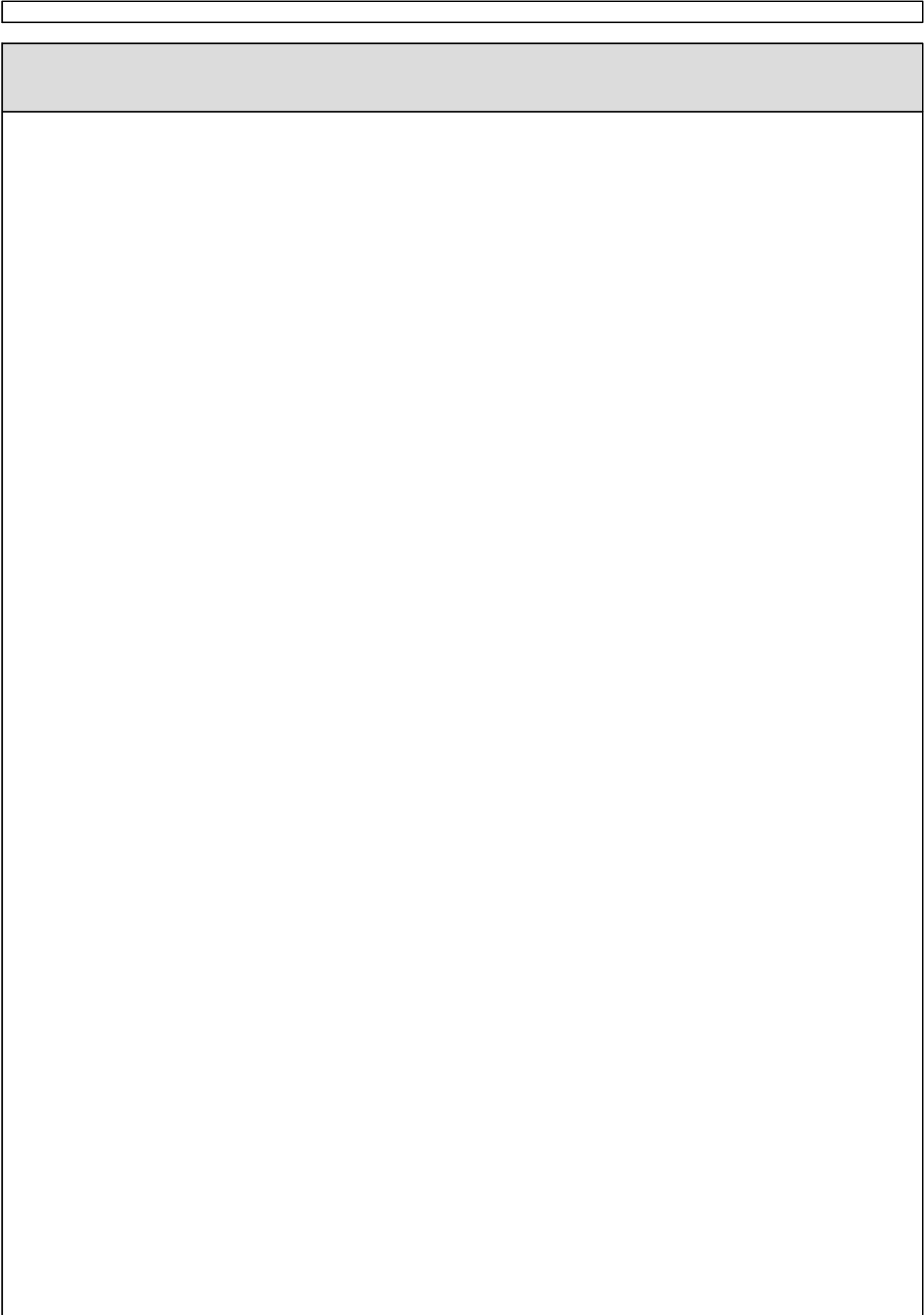
**Section D**

**Statics**

**Open Out & In**

**General Size Limitations are shown on Page A02.**

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



**Section E**



**Construction Drawings - Open In**

**General**

Stepped	General	Flush
Corner Joint Detail..... E03	Corner Joint Detail..... E03	Corner Joint Detail..... E03
ACUL900..... E04	ACUL900..... E04	ACUL900..... E04
Low Rebate Threshold Assembly..... E05	Low Rebate Threshold Assembly..... E06	Low Rebate Threshold Assembly..... E06
Low Ramp Threshold Assembly..... E07	Low Ramp Threshold Assembly..... E08	Low Ramp Threshold Assembly..... E08
Drainage..... E09	Drainage..... E10	Drainage..... E10
Sub Cill Drainage..... E11	Sub Cill Drainage..... E11	Sub Cill Drainage..... E11
Standard Bead Transom Assembly..... E12 - E13	Standard Bead Transom Assembly..... E12 - E13	Standard Bead Transom Assembly..... E12 - E13
Quick-Glaze Bead Transom Assembly..... E14	Quick-Glaze Bead Transom Assembly..... E14	Quick-Glaze Bead Transom Assembly..... E14
Stainless Steel Hardware..... E15	Stainless Steel Hardware..... E15	Stainless Steel Hardware..... E15
Panel Door Details..... E16	Panel Door Details..... E16	Panel Door Details..... E16
ACSM020 & ACSM021 Fitting Detail..... E17	ACSM020 & ACSM021 Fitting Detail..... E17	ACSM020 & ACSM021 Fitting Detail..... E17
Door Locking Hardware Options..... E18	Door Locking Hardware Options..... E18	Door Locking Hardware Options..... E18
Hinge Preparation..... E19	Hinge Preparation..... E20	Hinge Preparation..... E20
Lock Overview of Single and Double Doors..... E21	Lock Overview of Single and Double Doors..... E21	Lock Overview of Single and Double Doors..... E21
Single Door Lock Preparation..... E22	Single Door Lock Preparation..... E22	Single Door Lock Preparation..... E22

**Double Door Lift Lever**

Stepped	Flush
Shootbolt Layout..... E24	Shootbolt Layout..... E24
Full Frame Preparation..... E25 - E26	Full Frame Preparation..... E27 - E28
Low Rebate Preparation..... E29 - E30	Low Rebate Preparation..... E31 - E32
Low Ramp Preparation..... E33 - E34	Low Ramp Preparation..... E35 - E36

**Double Door Finger Bolt**

Stepped	Flush
Full Frame Preparation..... E38 - E39	Full Frame Preparation..... E40 - E41
Low Rebate Preparation..... E42 - E43	Low Rebate Preparation..... E44 - E45
Low Ramp Preparation..... E46 - E47	Low Ramp Preparation..... E48 - E49

**General Continued**

Letter Plate Fitting..... E51
Glazing Chart..... E52 - E54
Quick-Glaze Bead..... E55 - E56
Glass Adjuster..... E57
Fixing Strap Detail..... E58
Example Layout..... E59 - E60

**Section E**



**Construction Drawings - Open Out**

**General**

Stepped		Flush	
Corner Joint Detail.....	E63	Corner Joint Detail.....	E63
ACUL900.....	E64	ACUL900.....	E64
Low Rebate Threshold Assembly.....	E65	Low Rebate Threshold Assembly.....	E66
Low Ramp Threshold Assembly.....	E67	Low Ramp Threshold Assembly.....	E68
Drainage.....	E69	Drainage.....	E70
Sub Cill Drainage.....	E71	Sub Cill Drainage.....	E71
Quick-Glaze Bead Transom Assembly.....	E72	Quick-Glaze Bead Transom Assembly.....	E72
Stainless Steel Hardware.....	E73	Stainless Steel Hardware.....	E73
Door Locking Hardware Options.....	E74	Door Locking Hardware Options.....	E74
Hinge Preparation.....	E75	Hinge Preparation.....	E76
Lock Overview of Single and Double Doors.....	E77	Lock Overview of Single and Double Doors.....	E77
Single Door Lock Preparation.....	E78	Single Door Lock Preparation.....	E78

**Double Door Lift Lever**

Stepped		Flush	
Shootbolt Layout.....	E80	Shootbolt Layout.....	E80
Full Frame Preparation.....	E81 - E82	Full Frame Preparation.....	E83 - E84
Low Rebate Preparation.....	E85 - E86	Low Rebate Preparation.....	E87 - E88
Low Ramp Preparation.....	E89 - E90	Low Ramp Preparation.....	E91 - E92

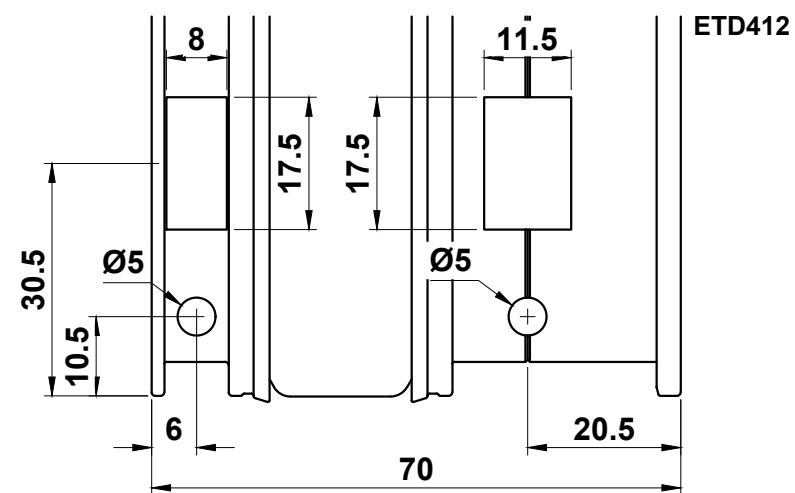
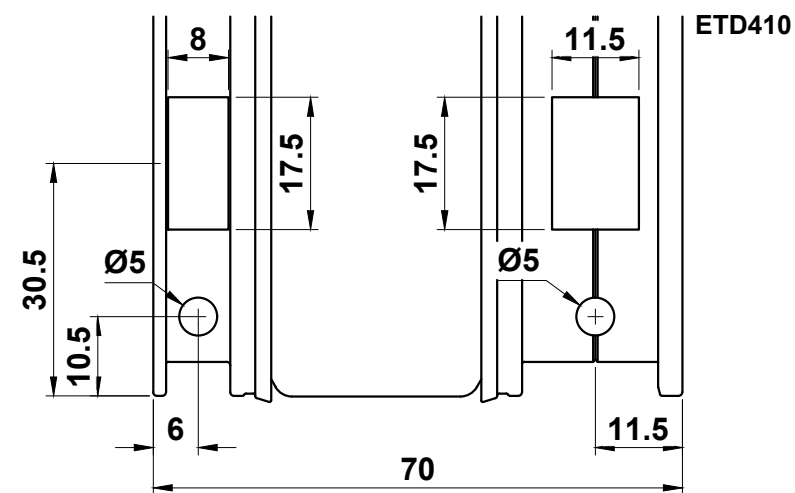
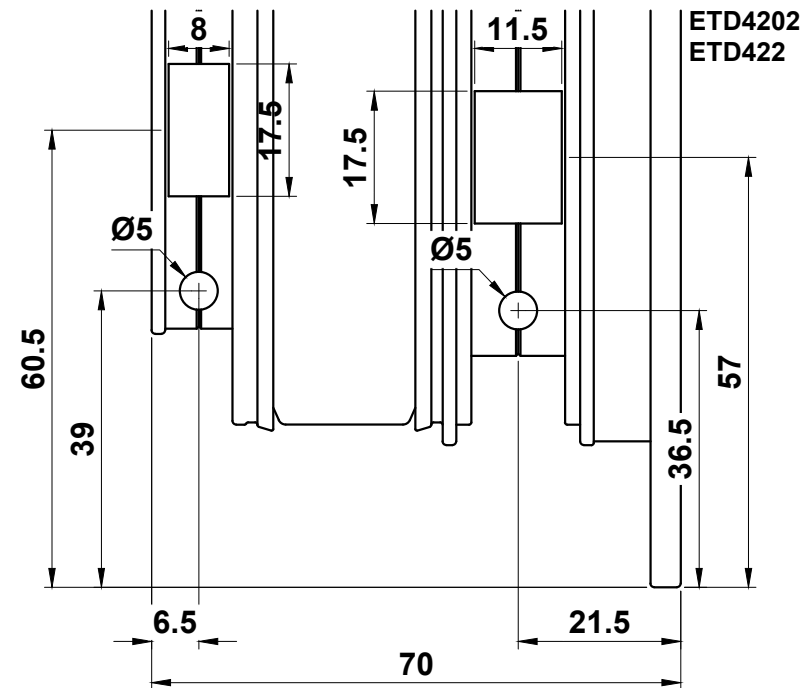
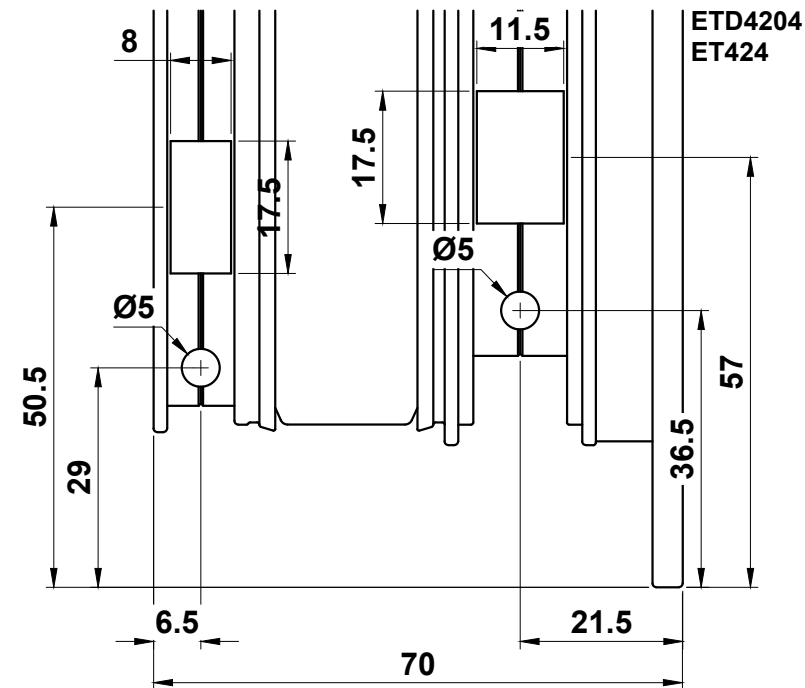
**Double Door Finger Bolt**

Stepped		Flush	
Full Frame Preparation.....	E94 - E95	Full Frame Preparation.....	E96 - E97
Low Rebate Preparation.....	E98 - E99	Low Rebate Preparation.....	E100-E101
Low Ramp Preparation.....	E102-E103	Low Ramp Preparation.....	E104-E105

**General Continued**

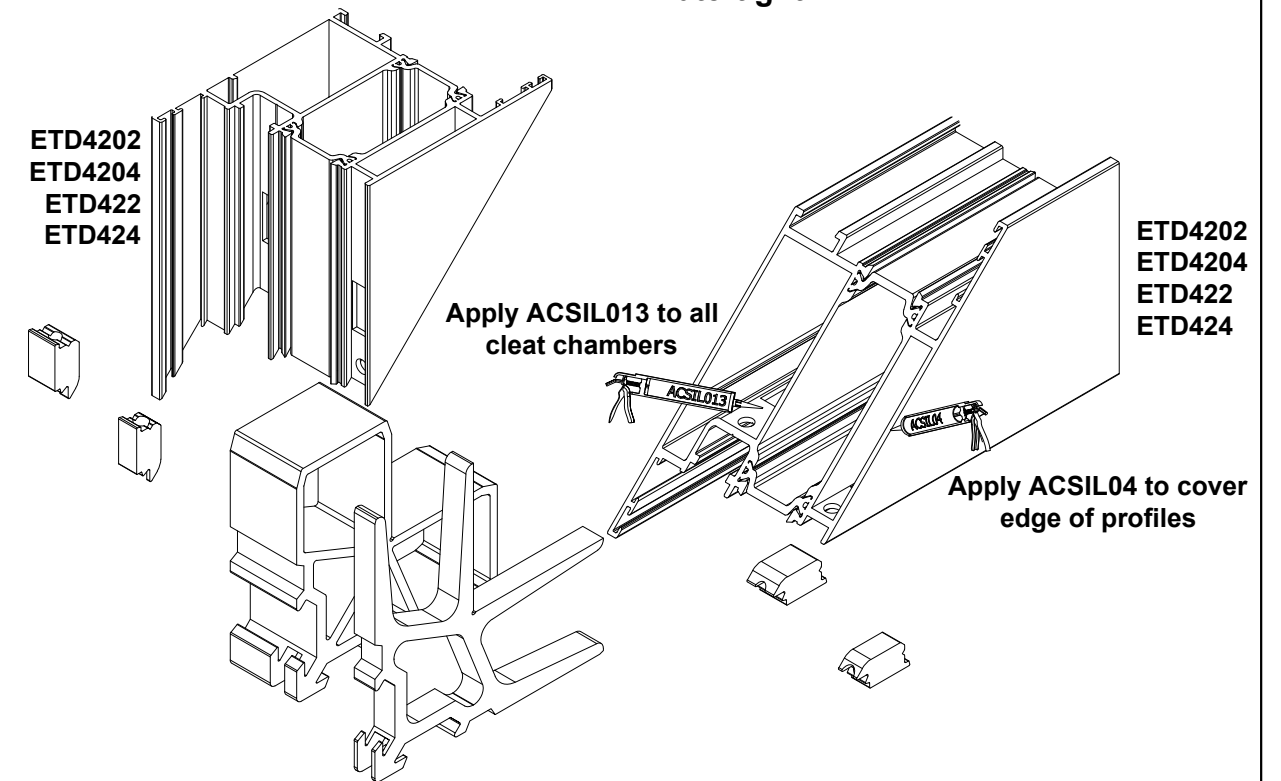
Letter Plate Fitting.....	E107
Quick-Glaze Bead.....	E108-E111
Glass Adjuster.....	E112
Fixing Strap Detail.....	E113
Example Layout.....	E114-E116

Corner Joint Details

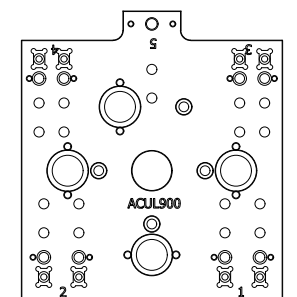


Notes

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



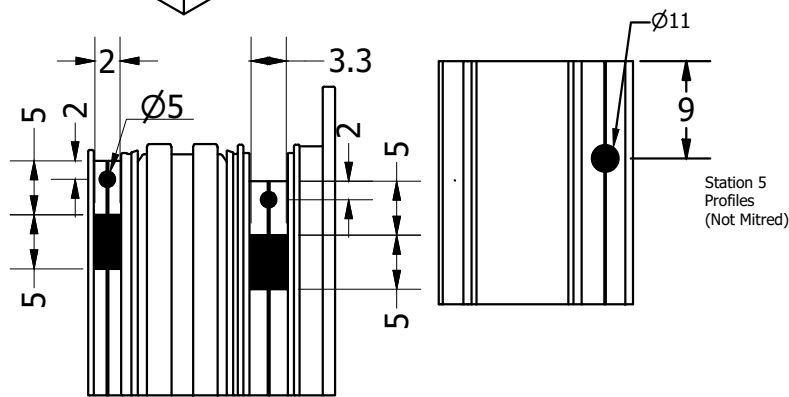
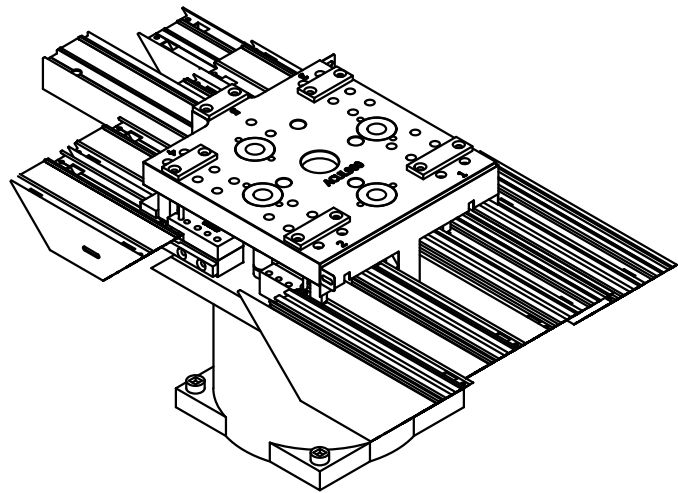
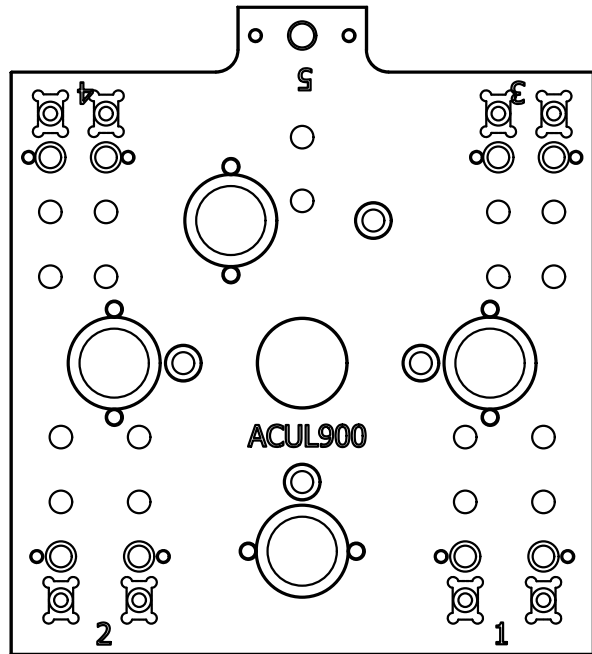
ACUL900



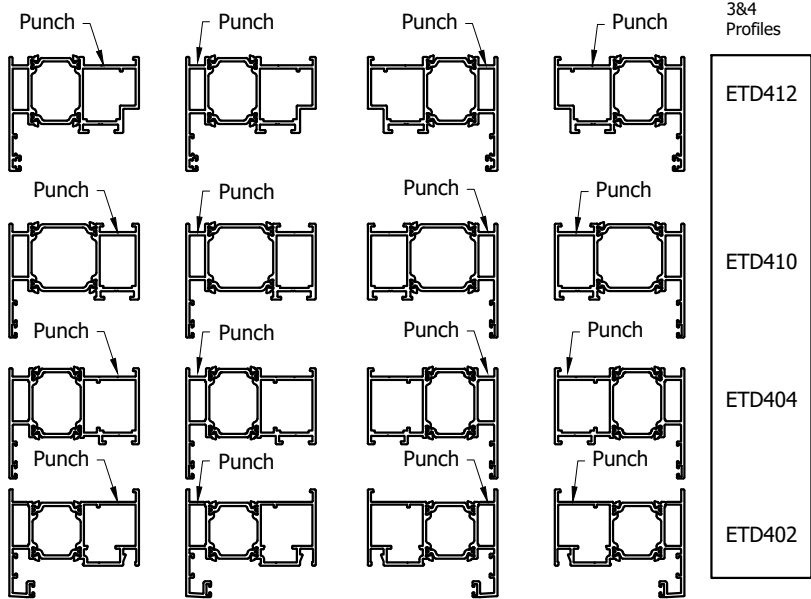
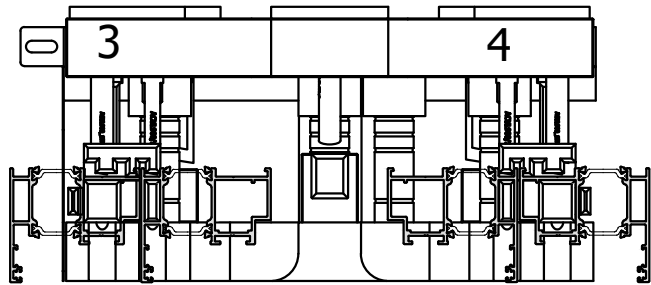
**To ensure accurate corners, we recommend the use of support blocks (by others) whilst cutting.**

Do Not Scale From This Drawing

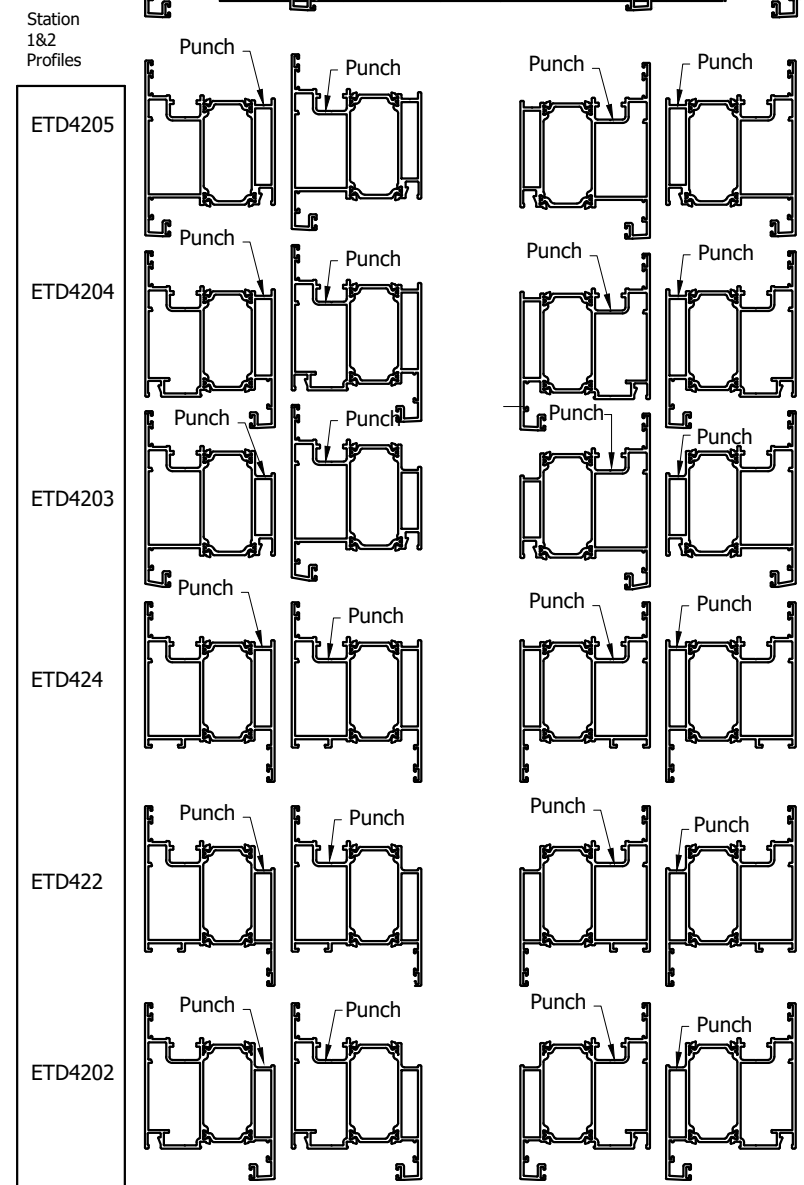
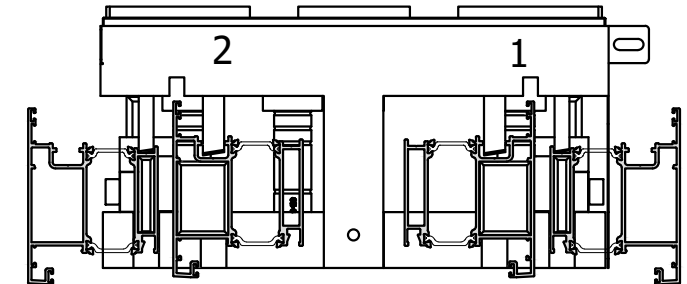
ACUL900 Punch Tool



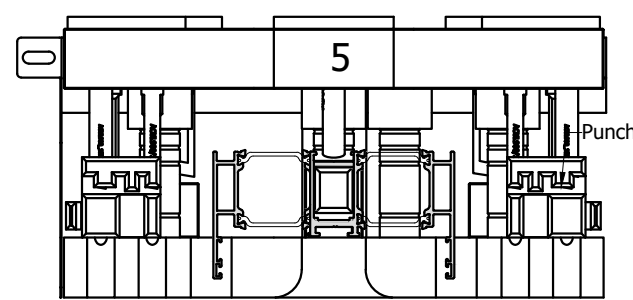
Station 3 & 4



Station 1 & 2



Station 5



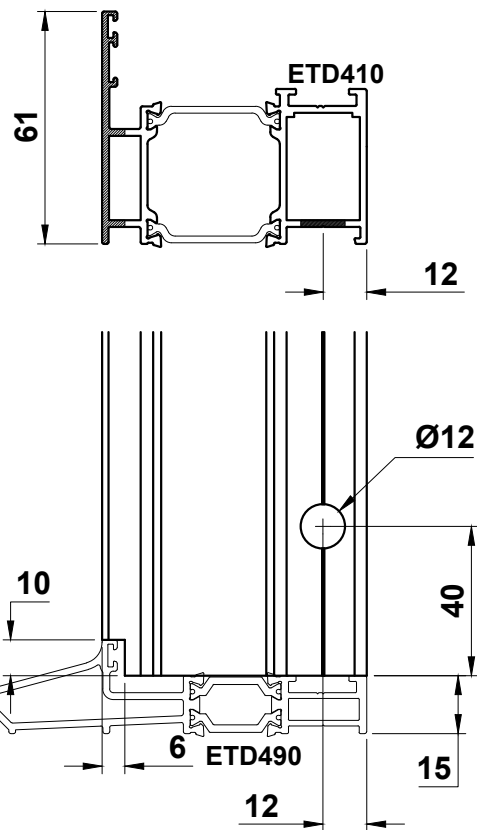
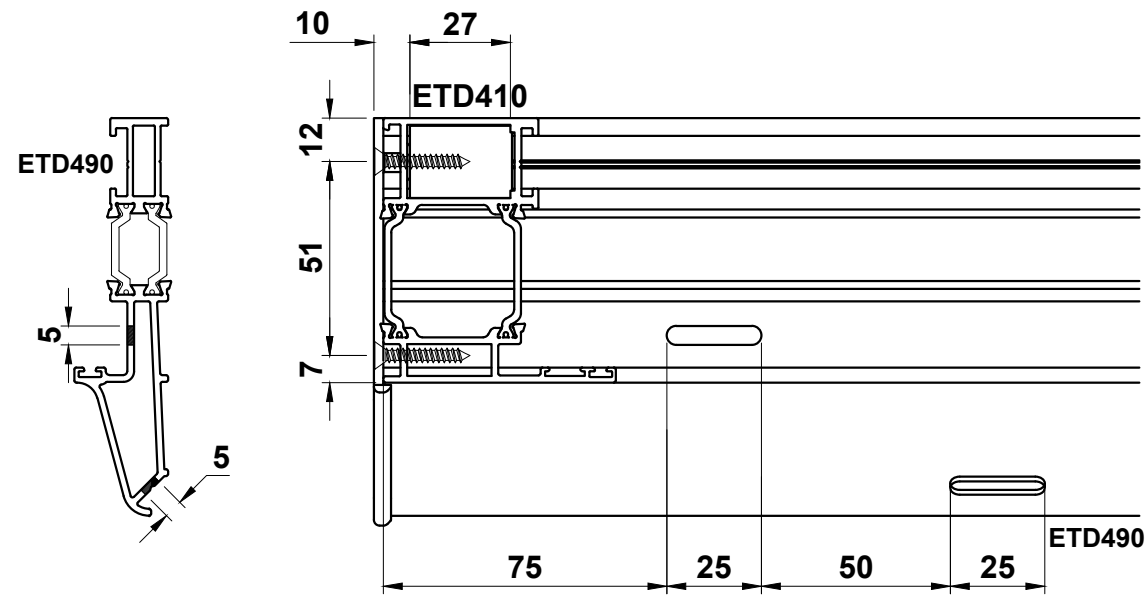
Station 5 Profiles



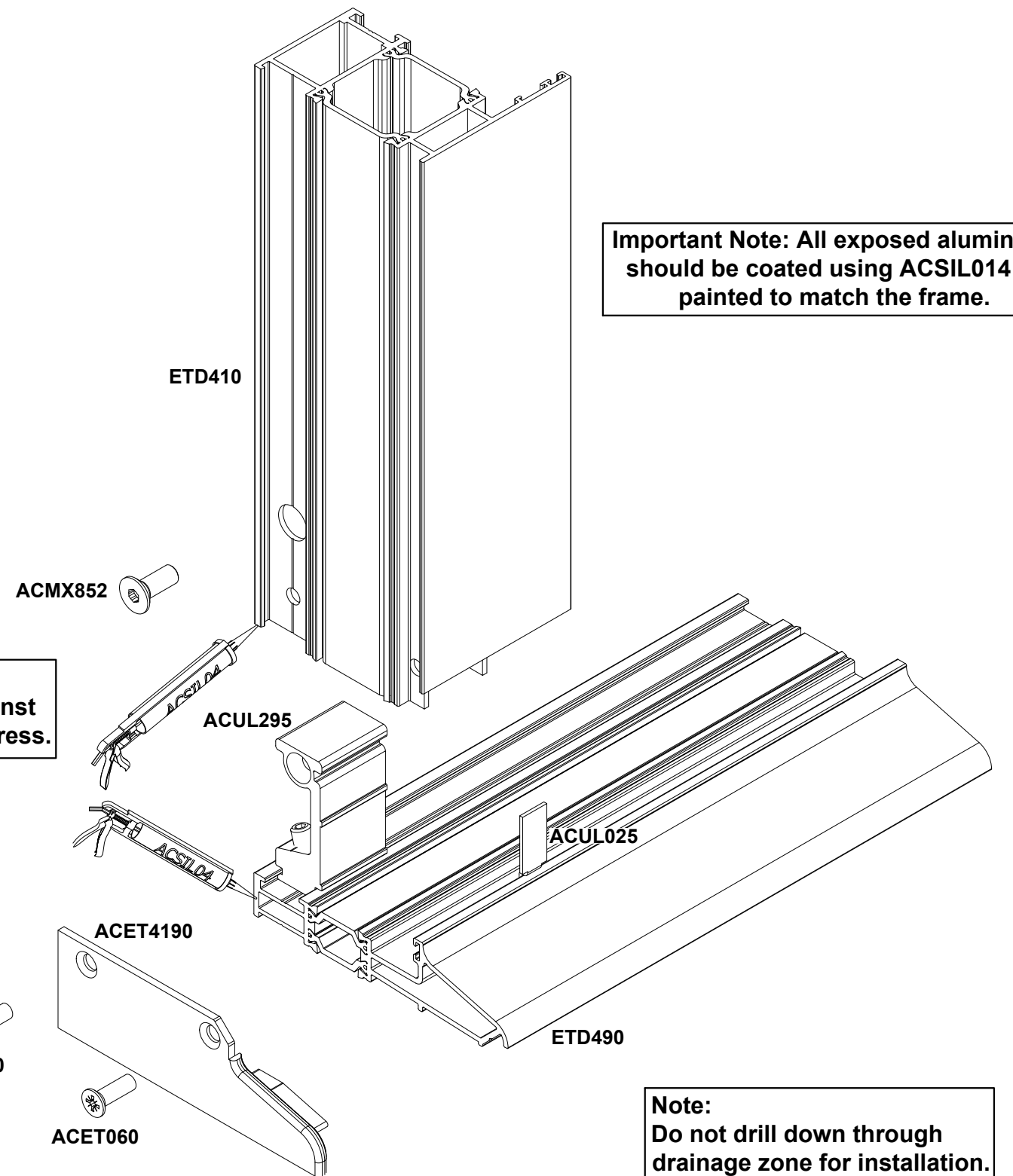
Do Not Scale From This Drawing



Low Rebate Threshold Assembly



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

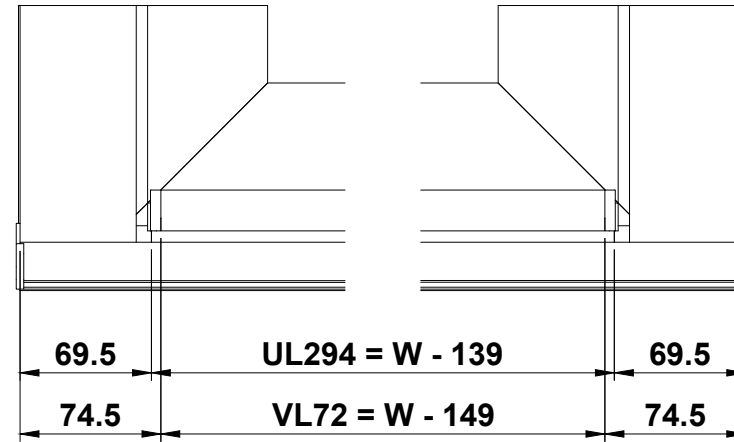
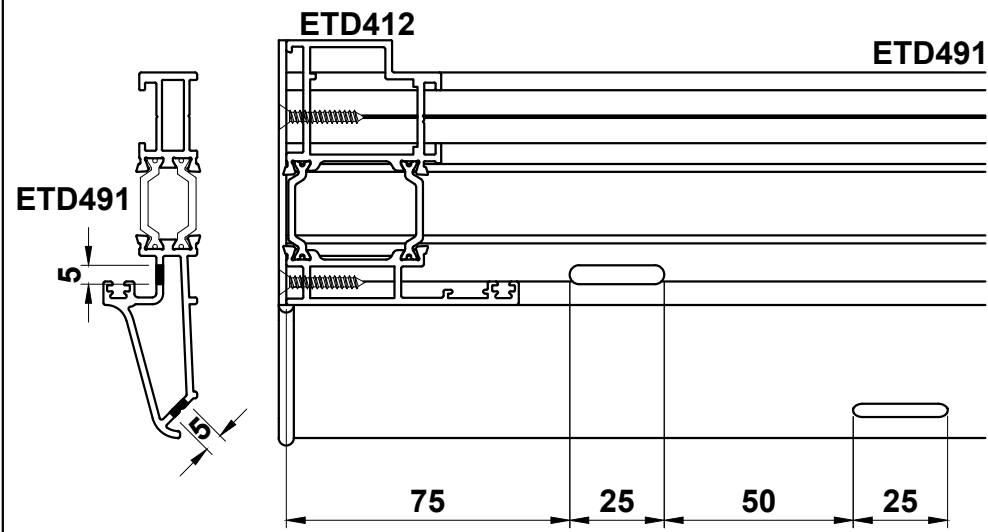


**Important Note:** All exposed aluminium should be coated using ACSIL014 or painted to match the frame.

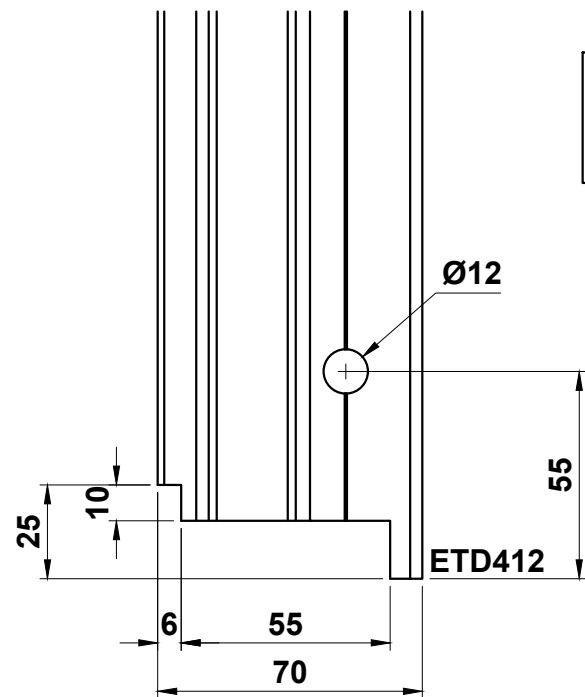
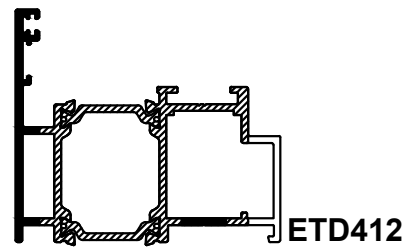
**Note:**  
Do not drill down through drainage zone for installation.

Do Not Scale From This Drawing

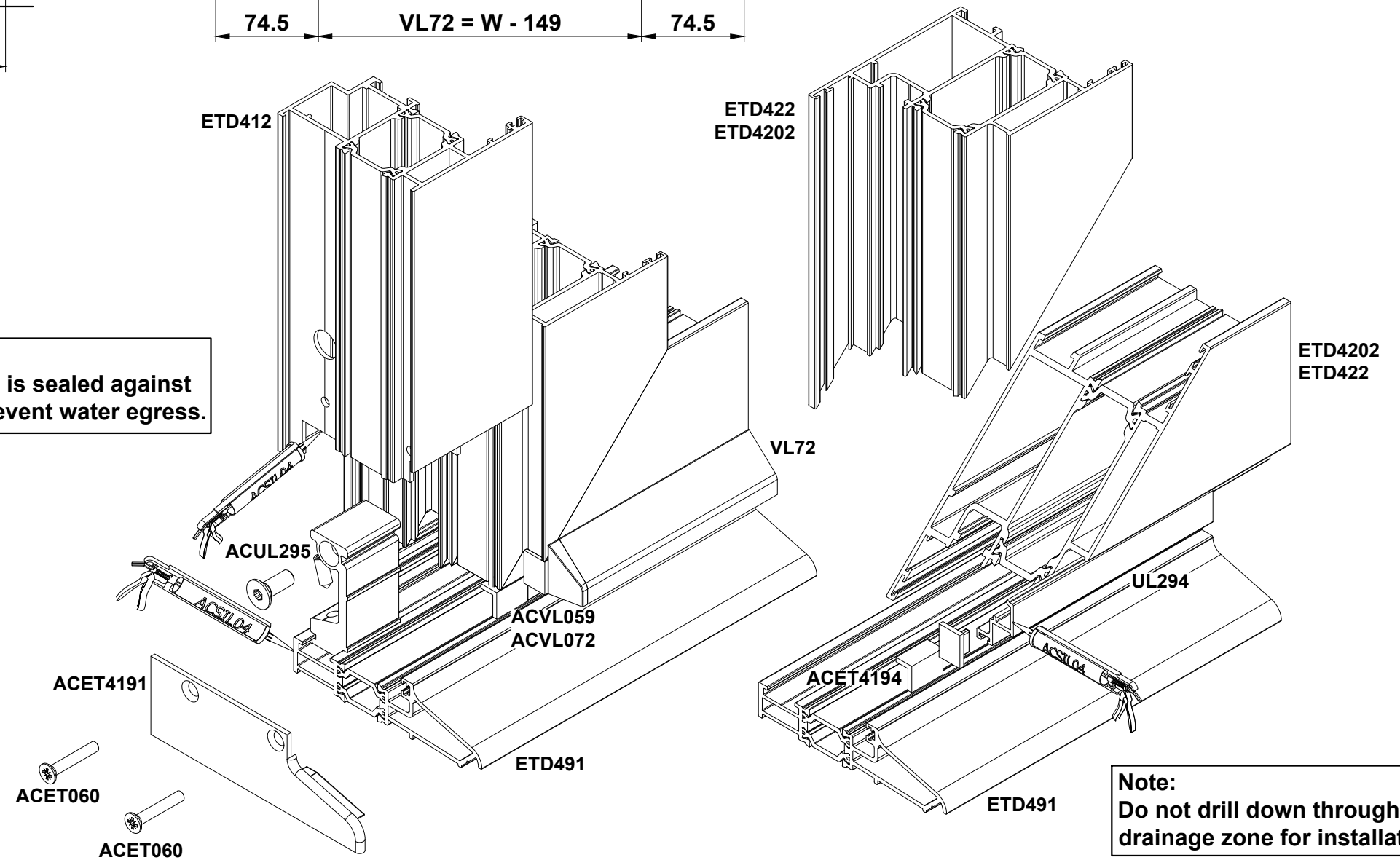
Flush Low Rebate Threshold Assembly



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



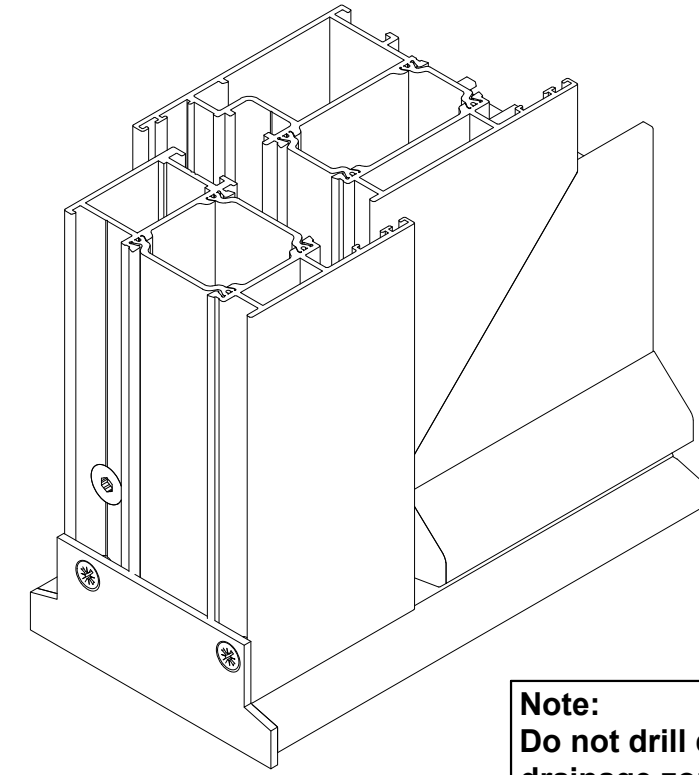
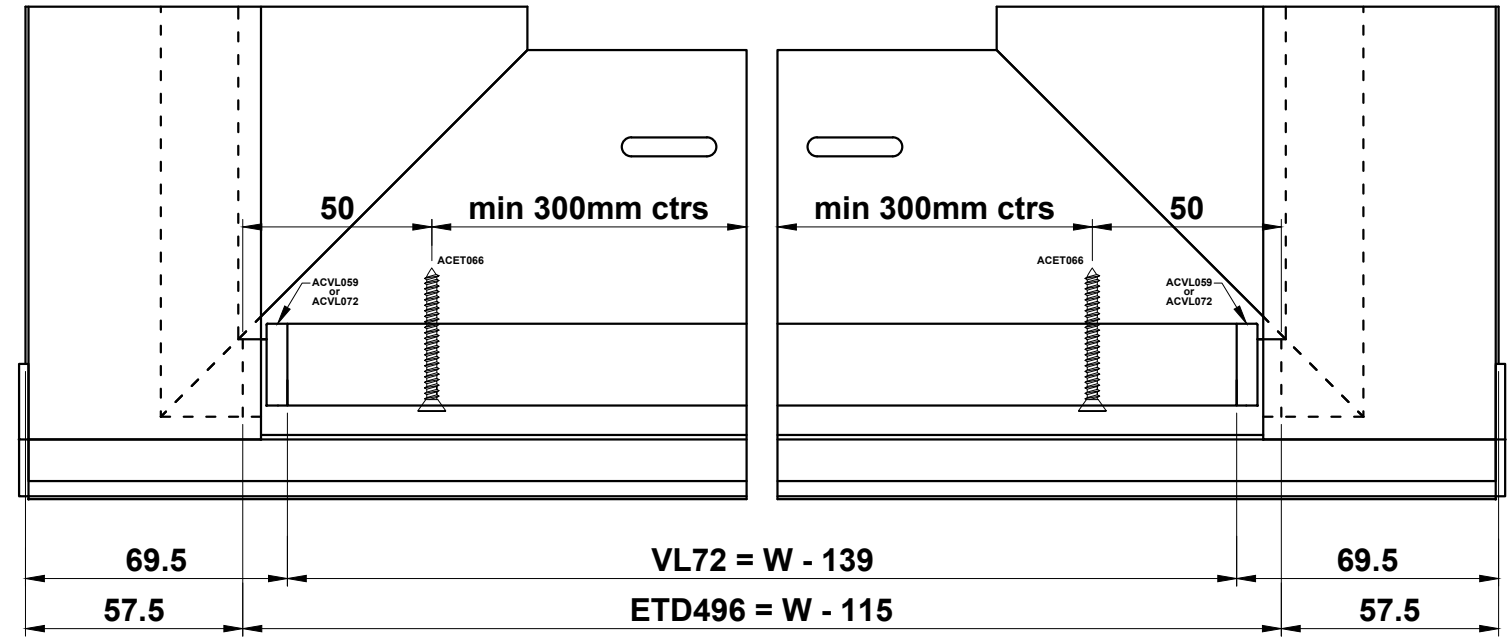
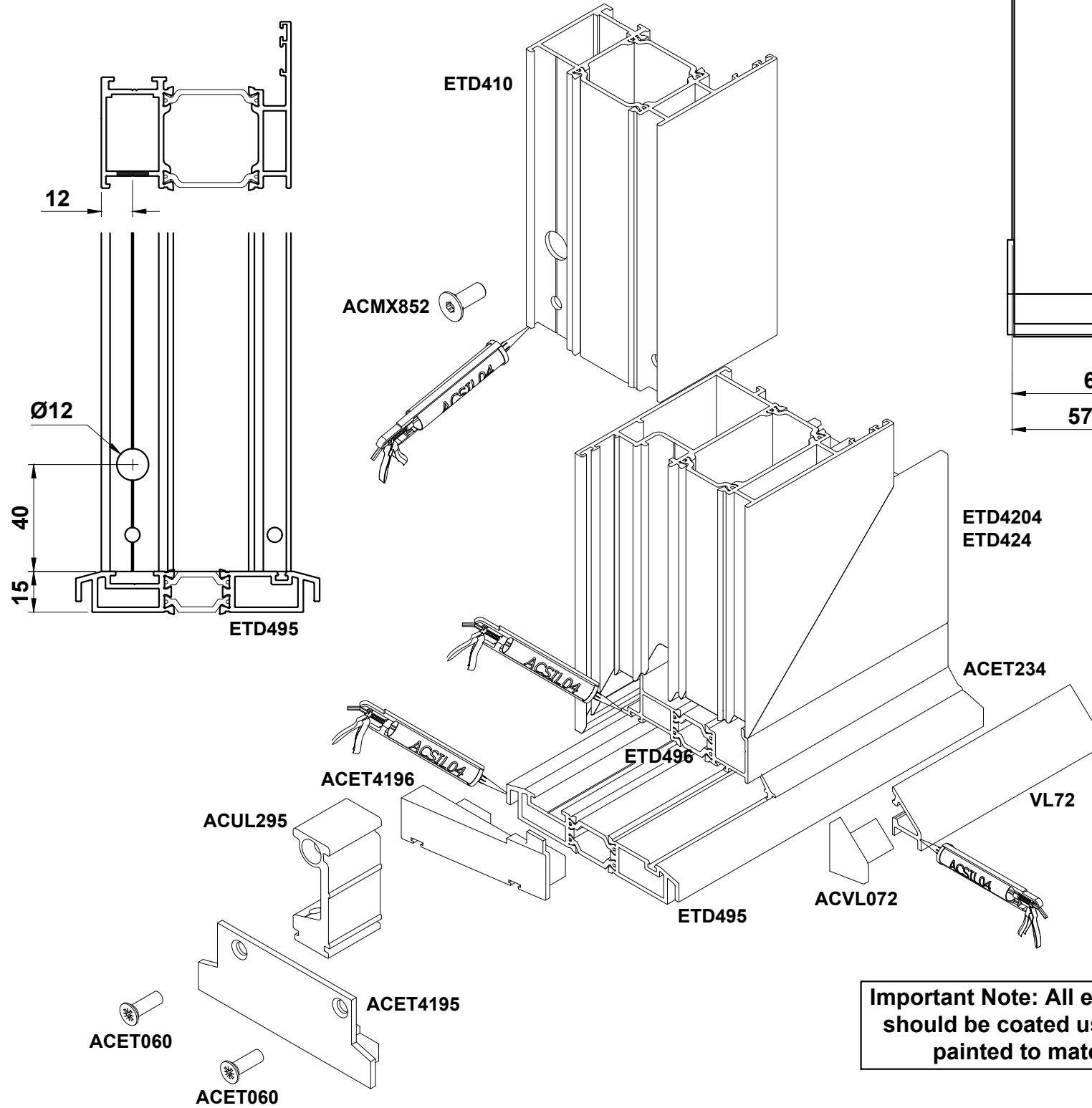
**Important Note:** Ensure end cap is sealed against threshold to prevent water egress.



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

Do Not Scale From This Drawing

Low Ramp Threshold Assembly

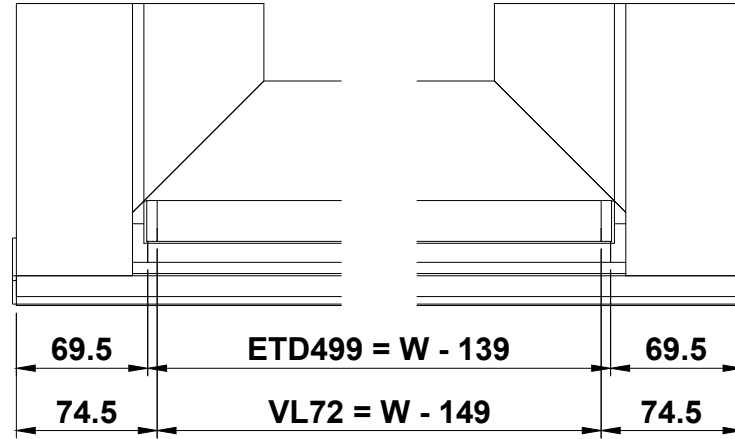


**Important Note:** All exposed aluminium should be coated using ACSIL014 or painted to match the frame.

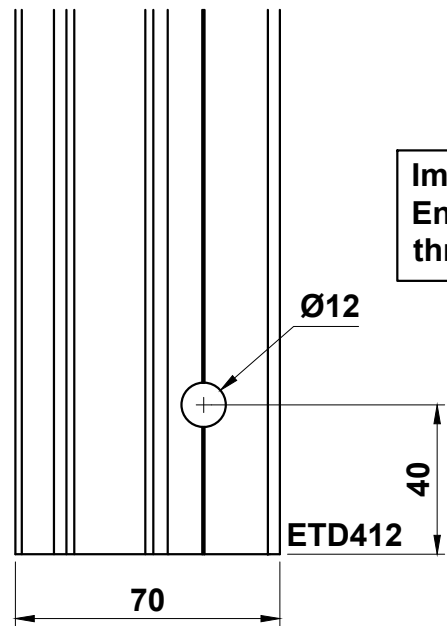
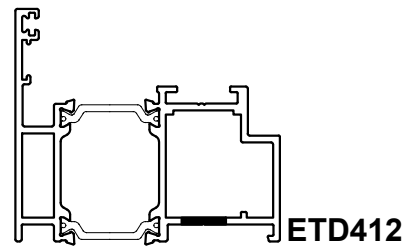
**Note:** Do not drill down through drainage zone for installation.

Do Not Scale From This Drawing

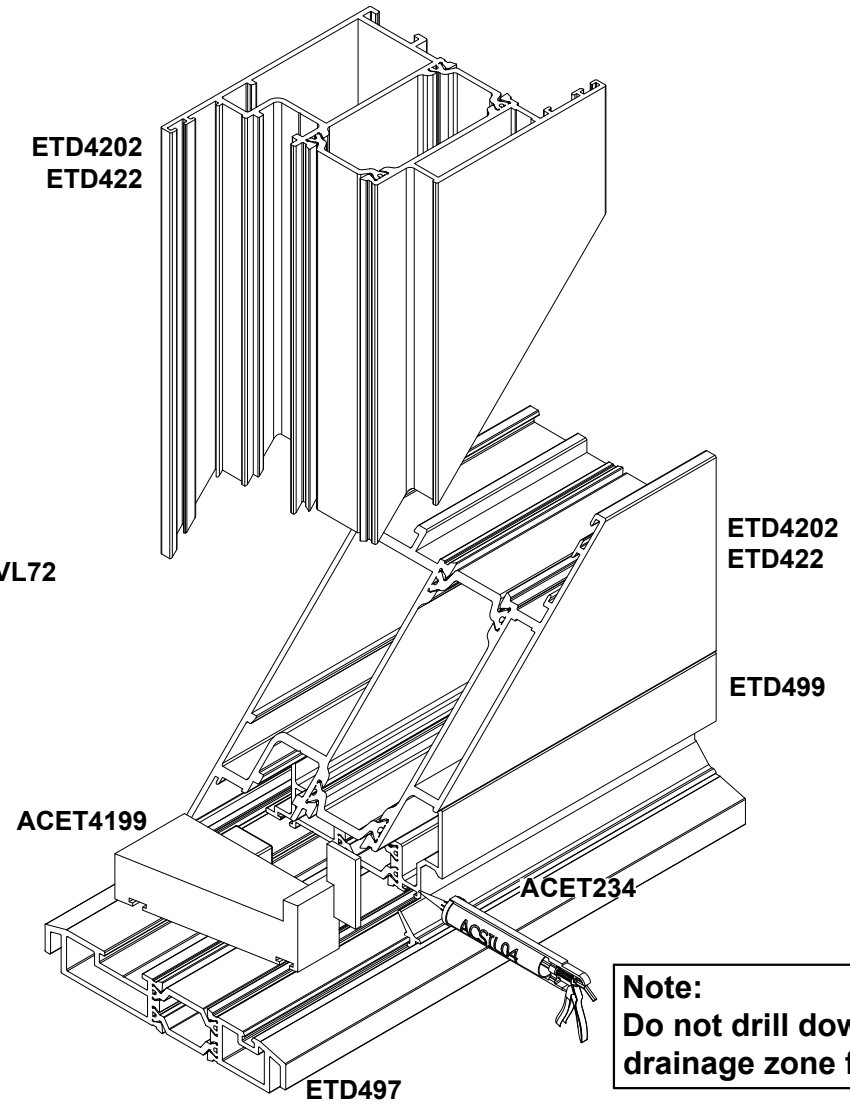
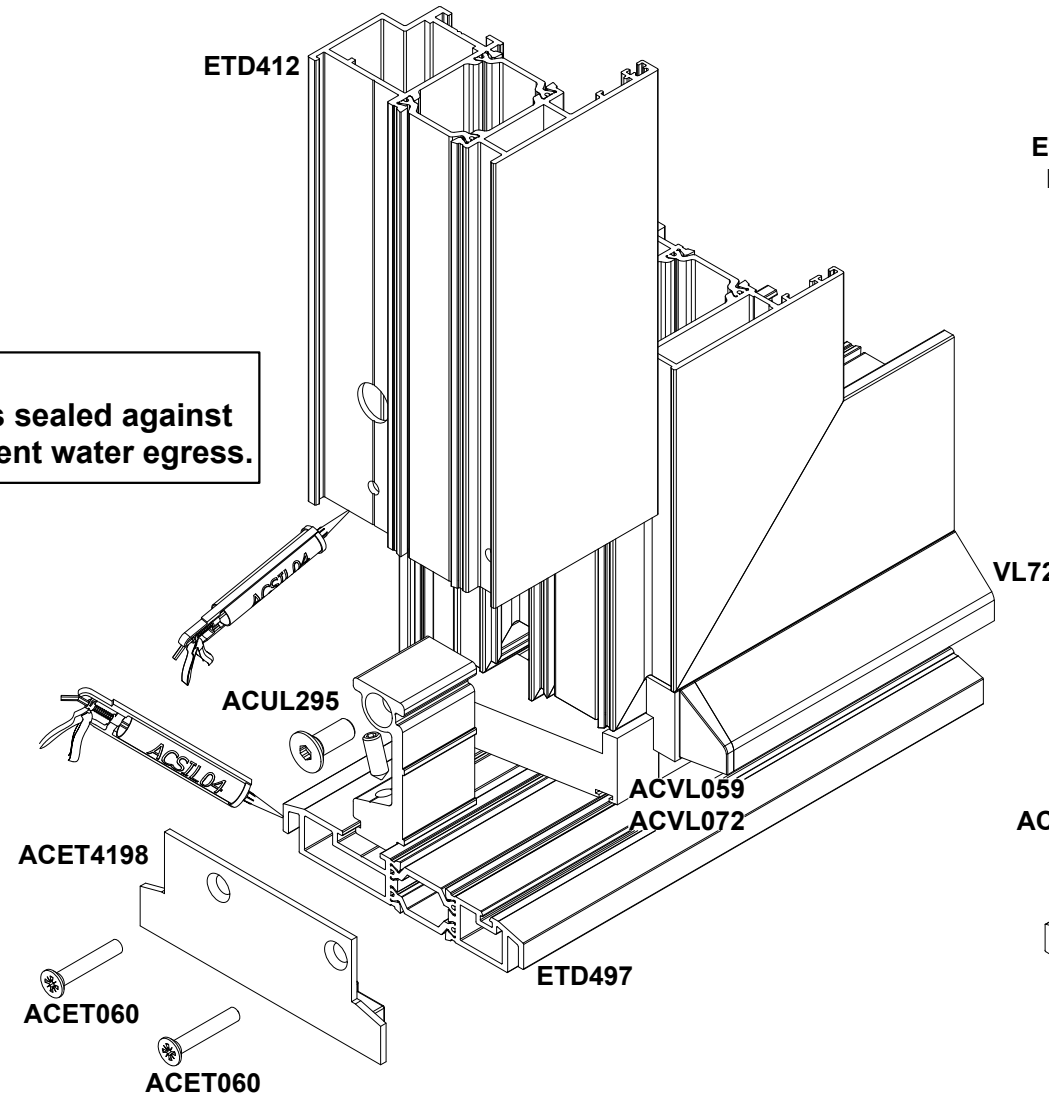
**Flush Low Ramp Threshold Assembly**



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



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

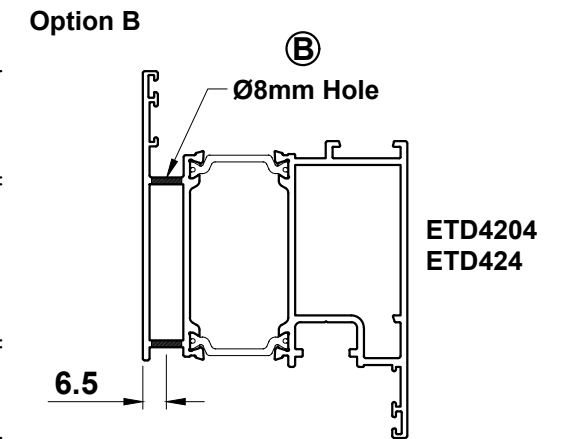
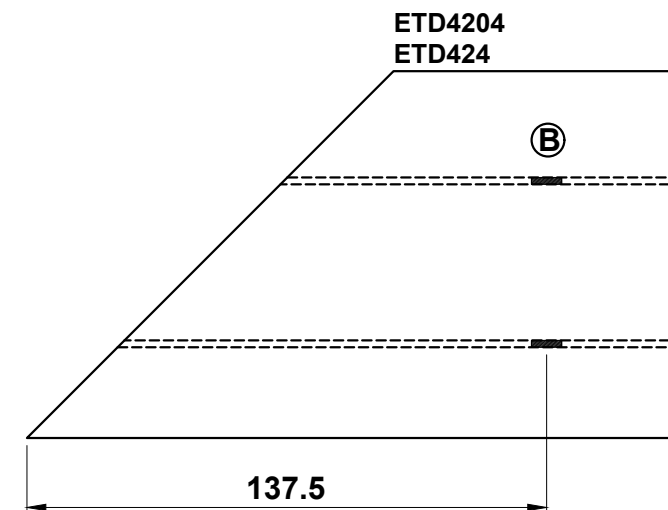
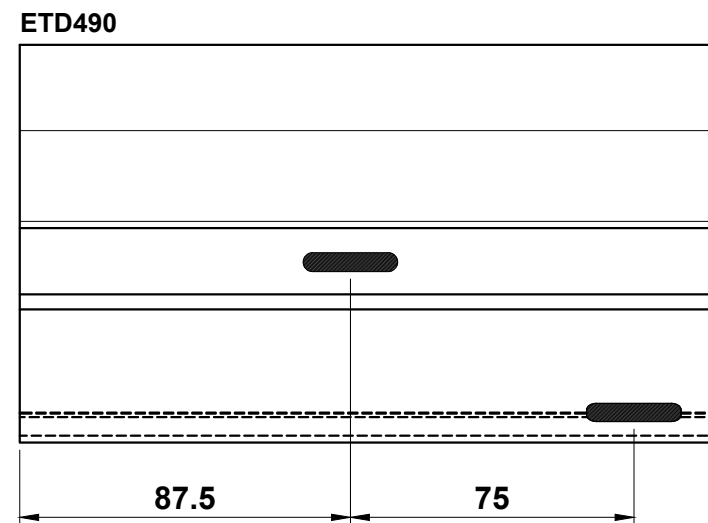
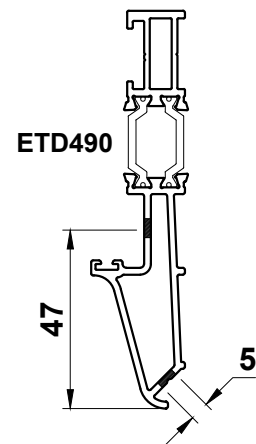
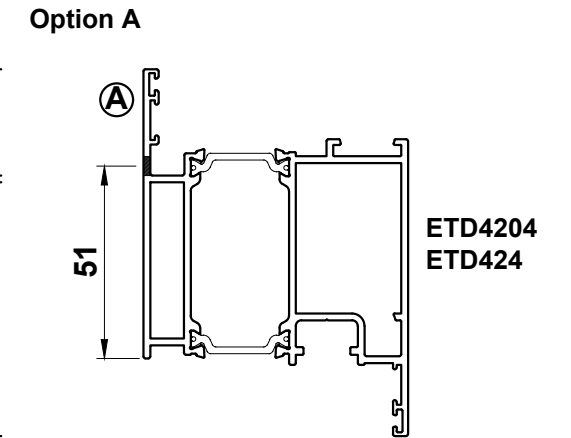
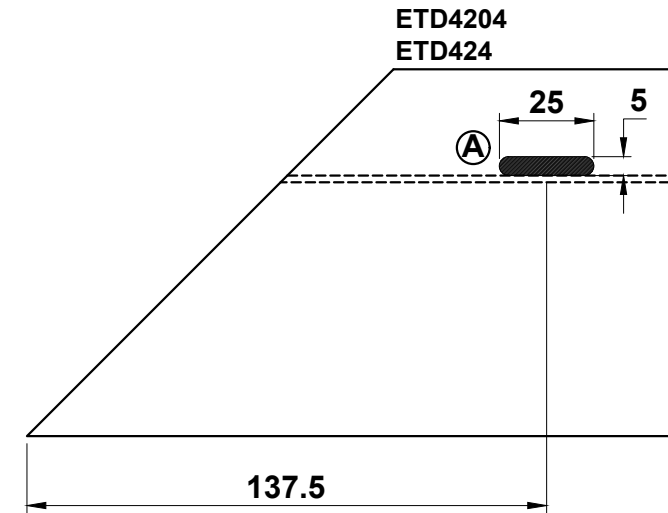
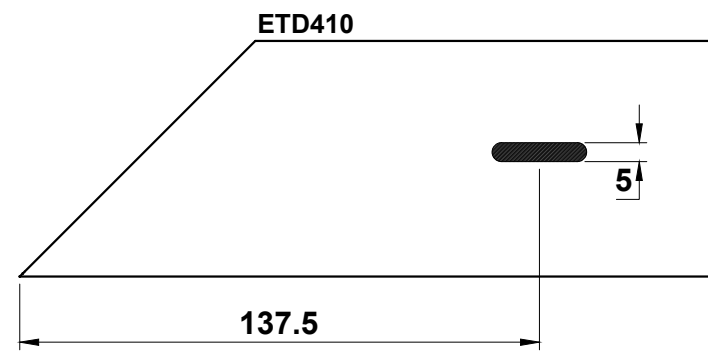
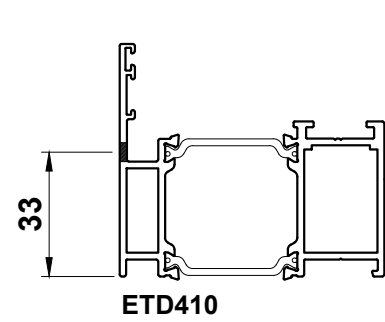
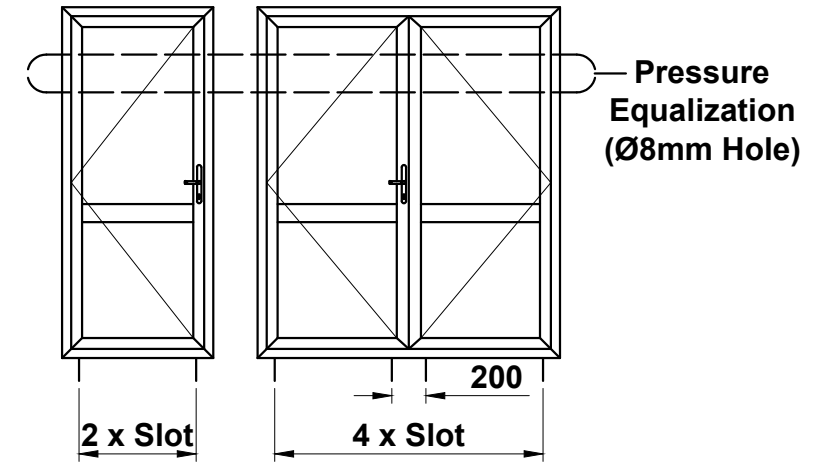
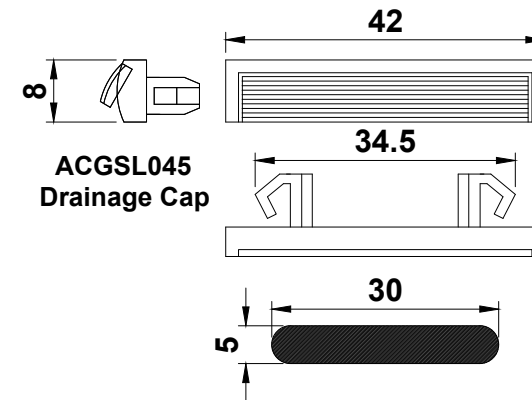
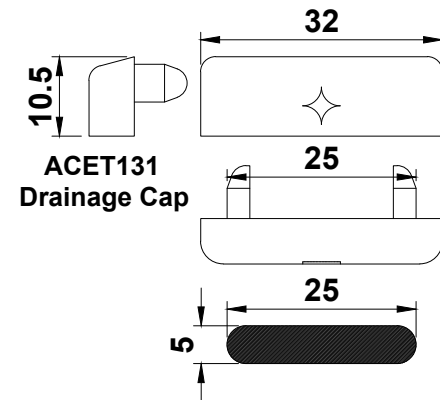


**Note: Do not drill down through drainage zone for installation.**

**Do Not Scale From This Drawing**

**Drainage**

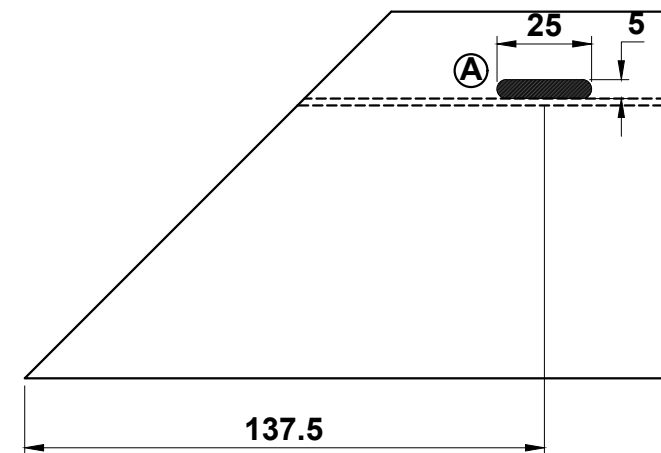
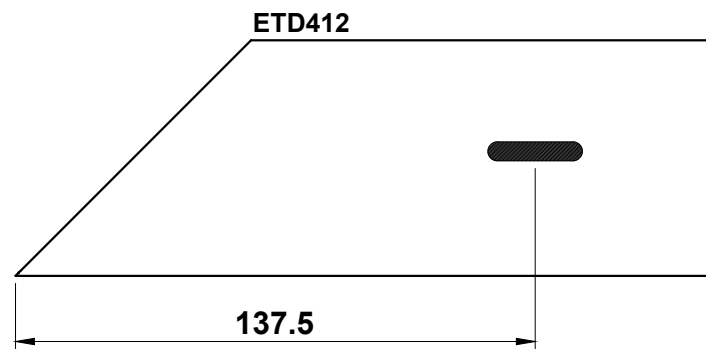
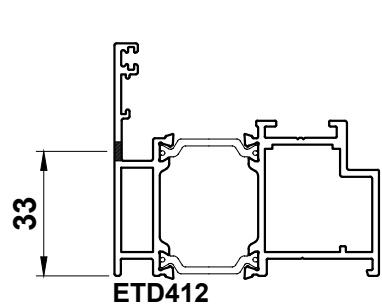
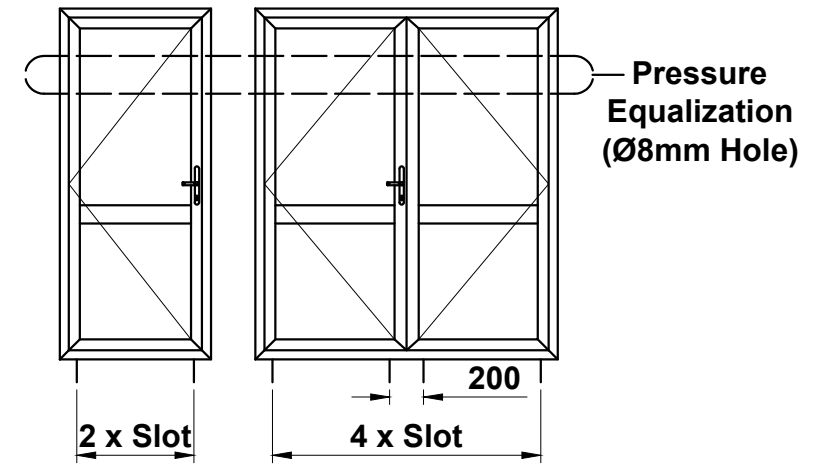
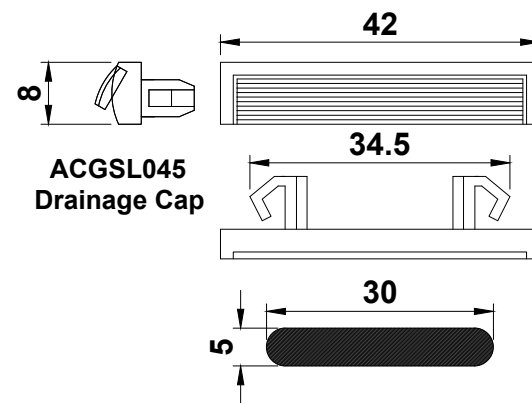
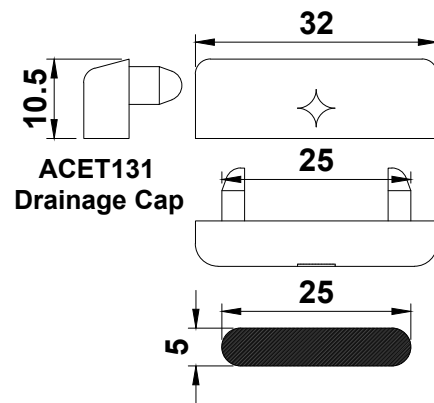
**Important Note: All exposed aluminium should be coated using ACSIL014 or painted to match the frame.**



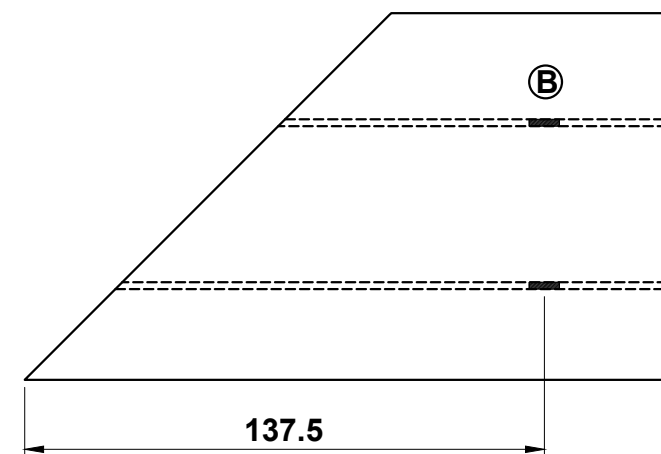
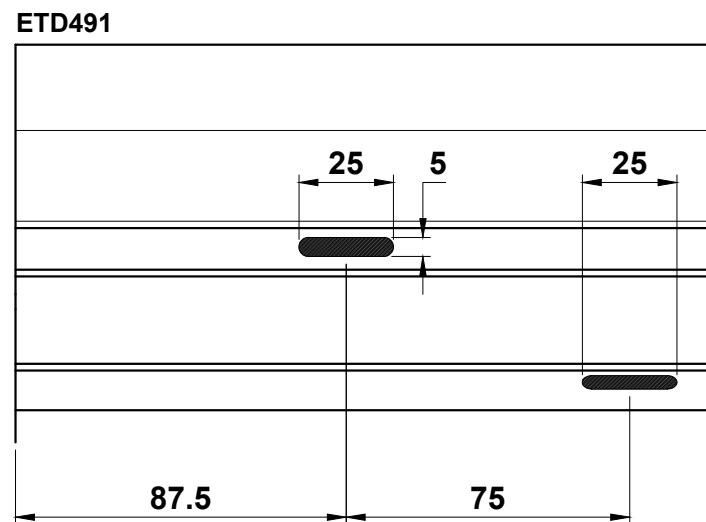
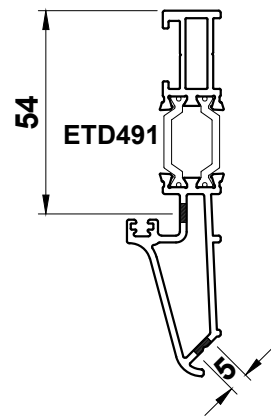
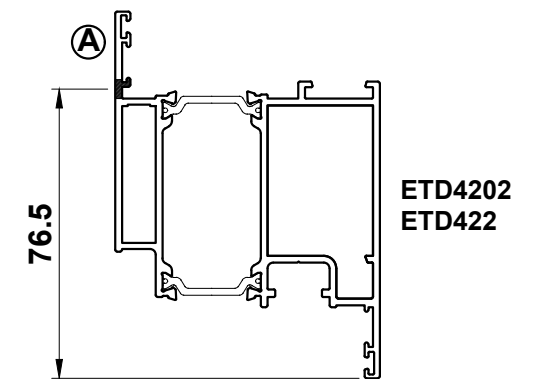
Do Not Scale From This Drawing

**Flush Drainage**

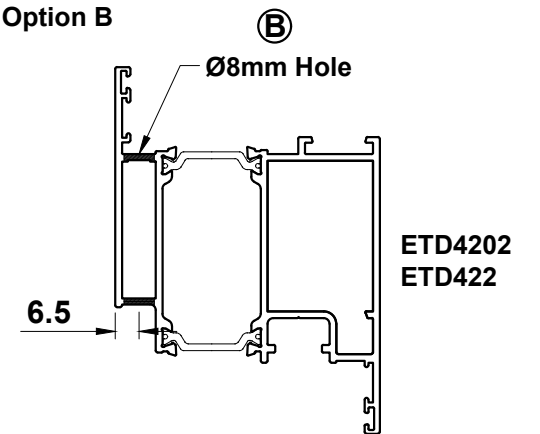
**Important Note: All exposed aluminium should be coated using ACSIL014 or painted to match the frame.**



Option A



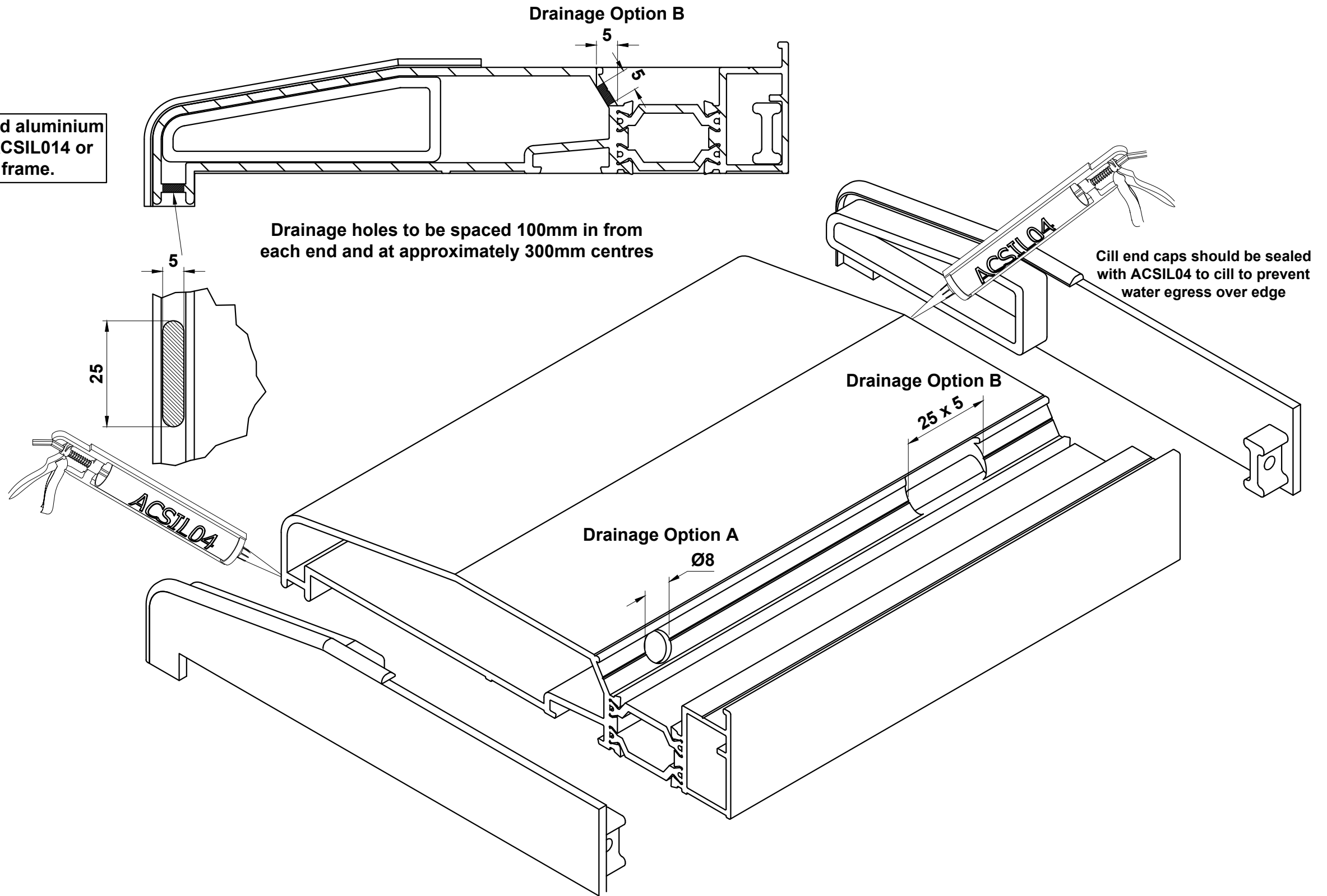
Option B



Do Not Scale From This Drawing

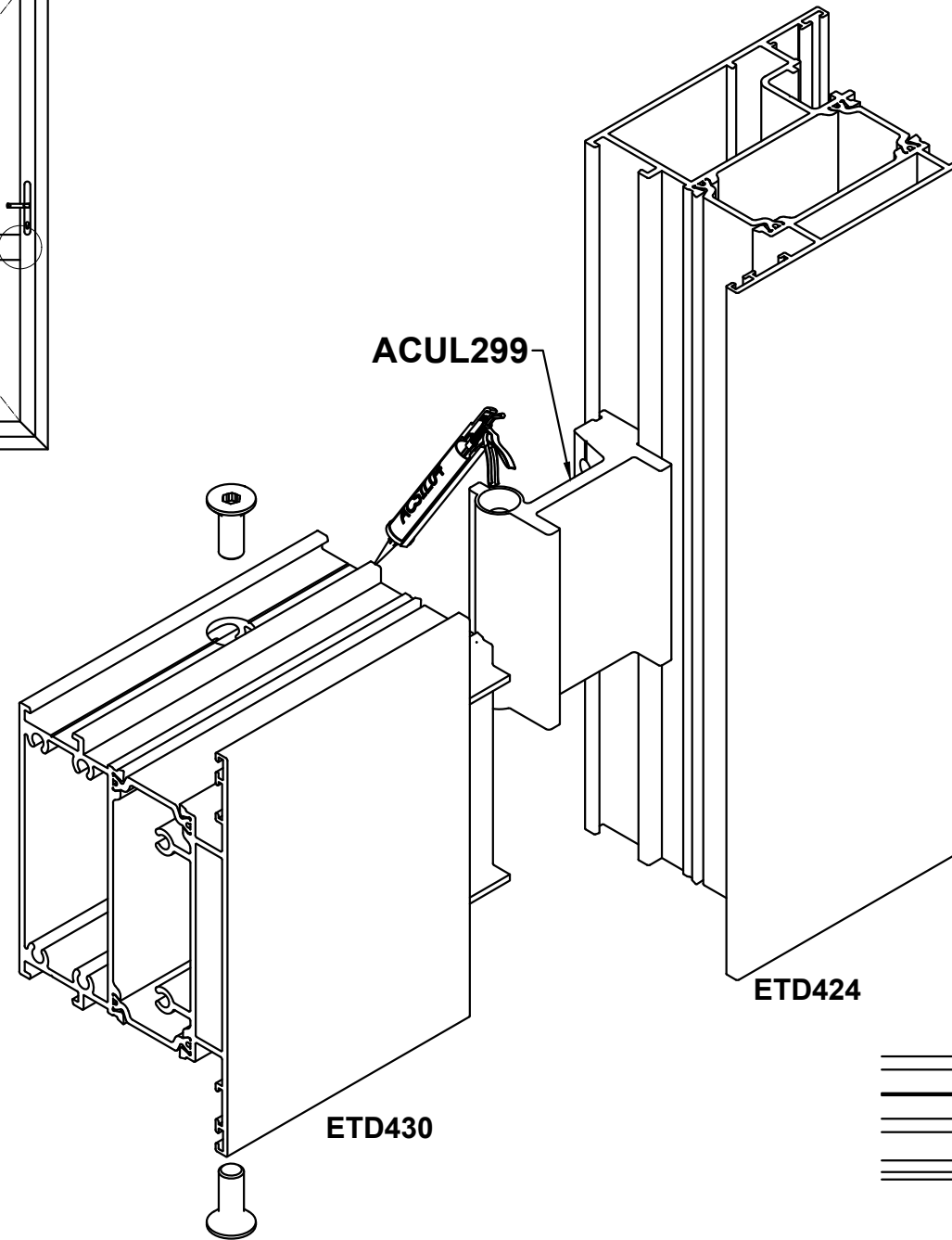
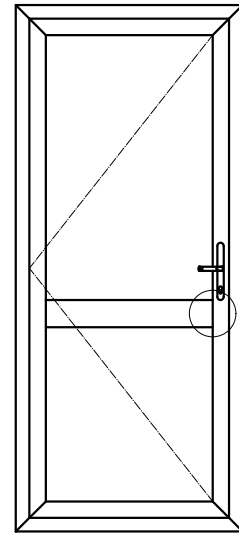
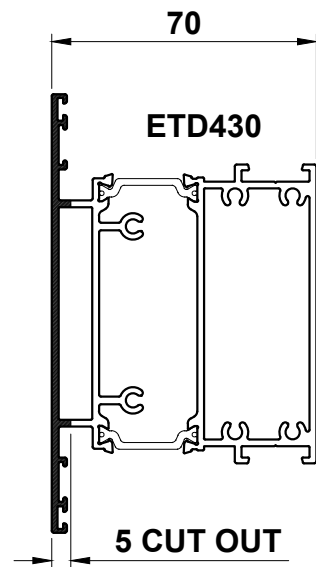
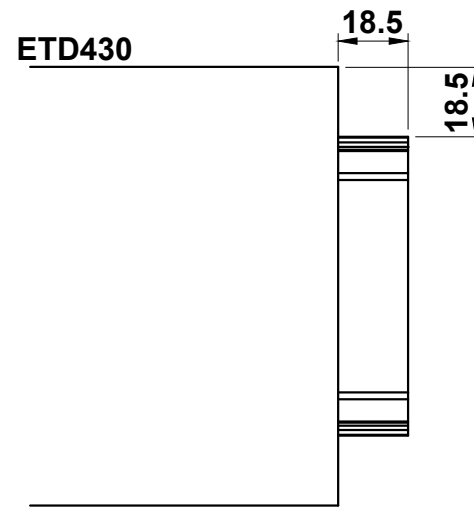
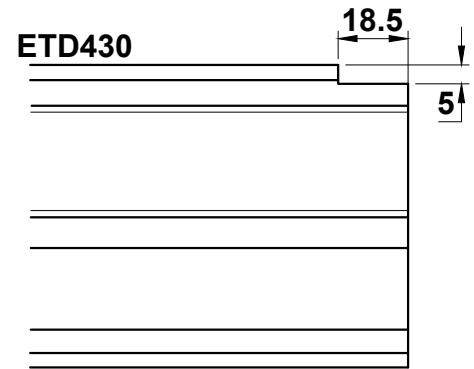
**Sub Cill Drainage**

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

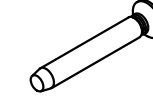


**Do Not Scale From This Drawing**

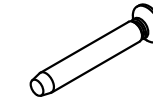
**ETD430 & ETD424/ETD426 Transom Assembly**



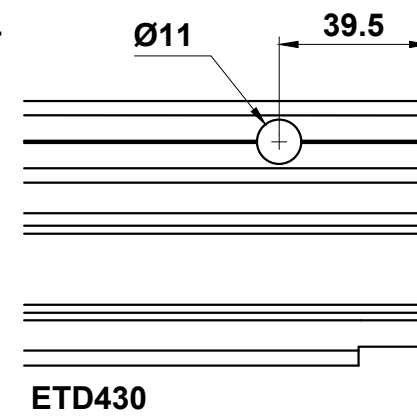
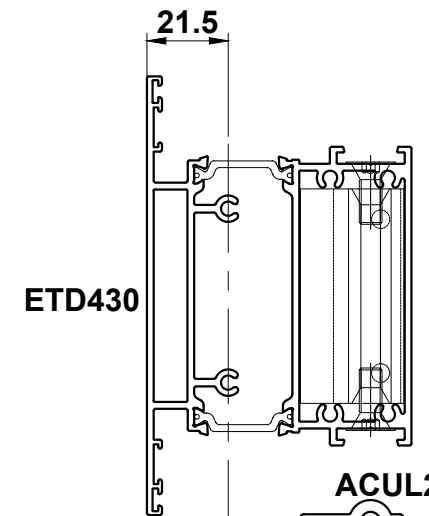
ACUN3512



ACUN3512



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



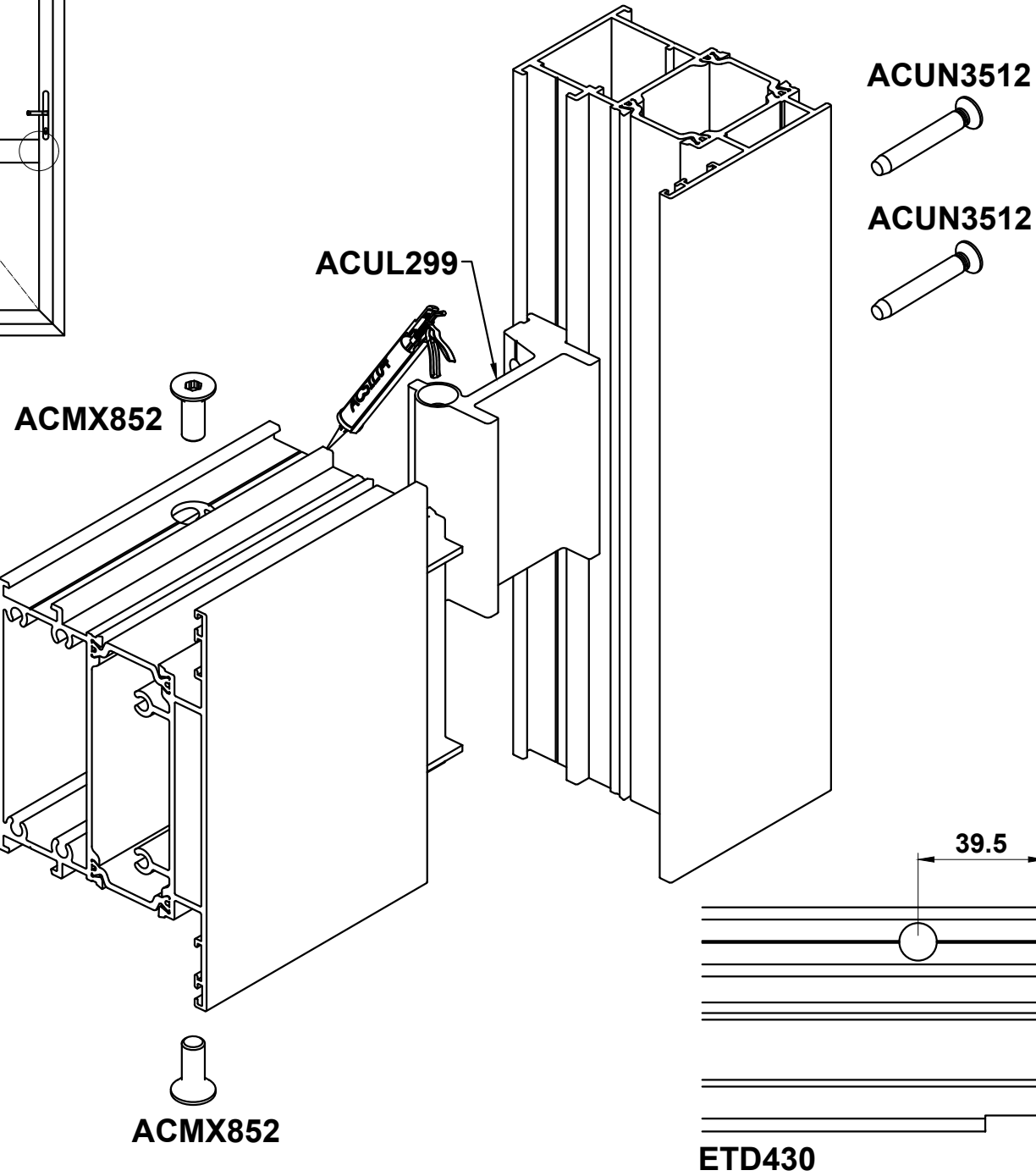
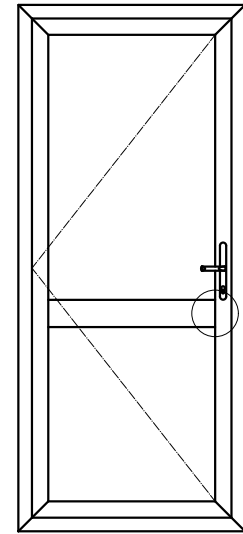
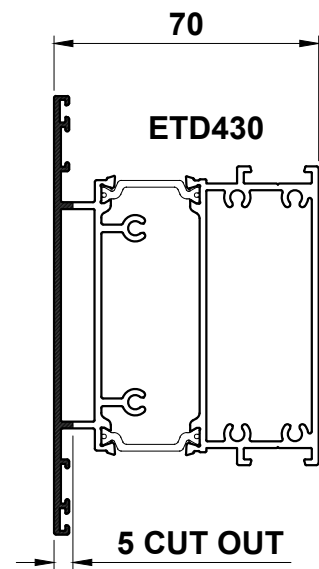
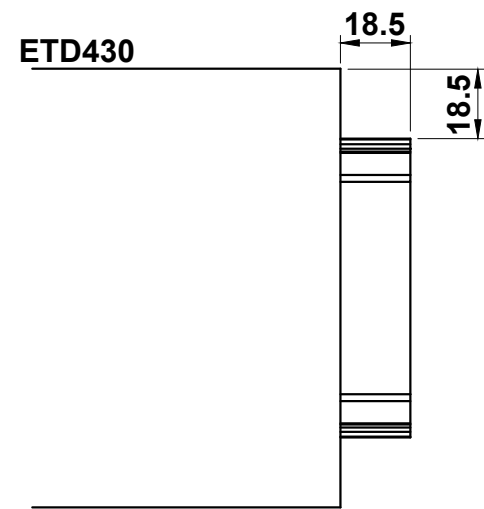
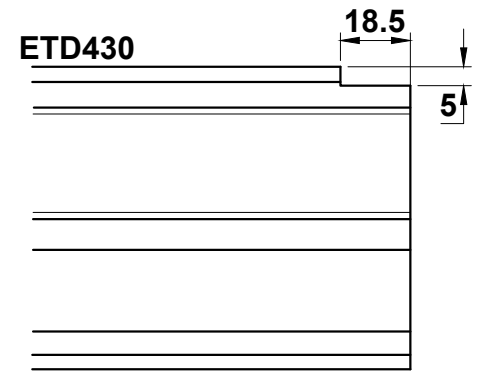
ACUN3512

ETD424  
ETD422

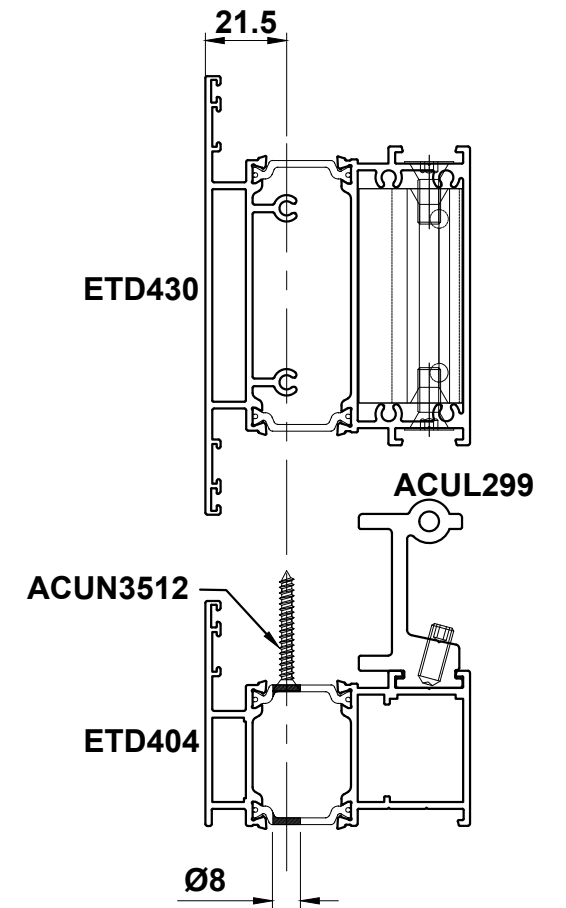
Do Not Scale From This Drawing



**ETD430 & ETD404 Transom Assembly**

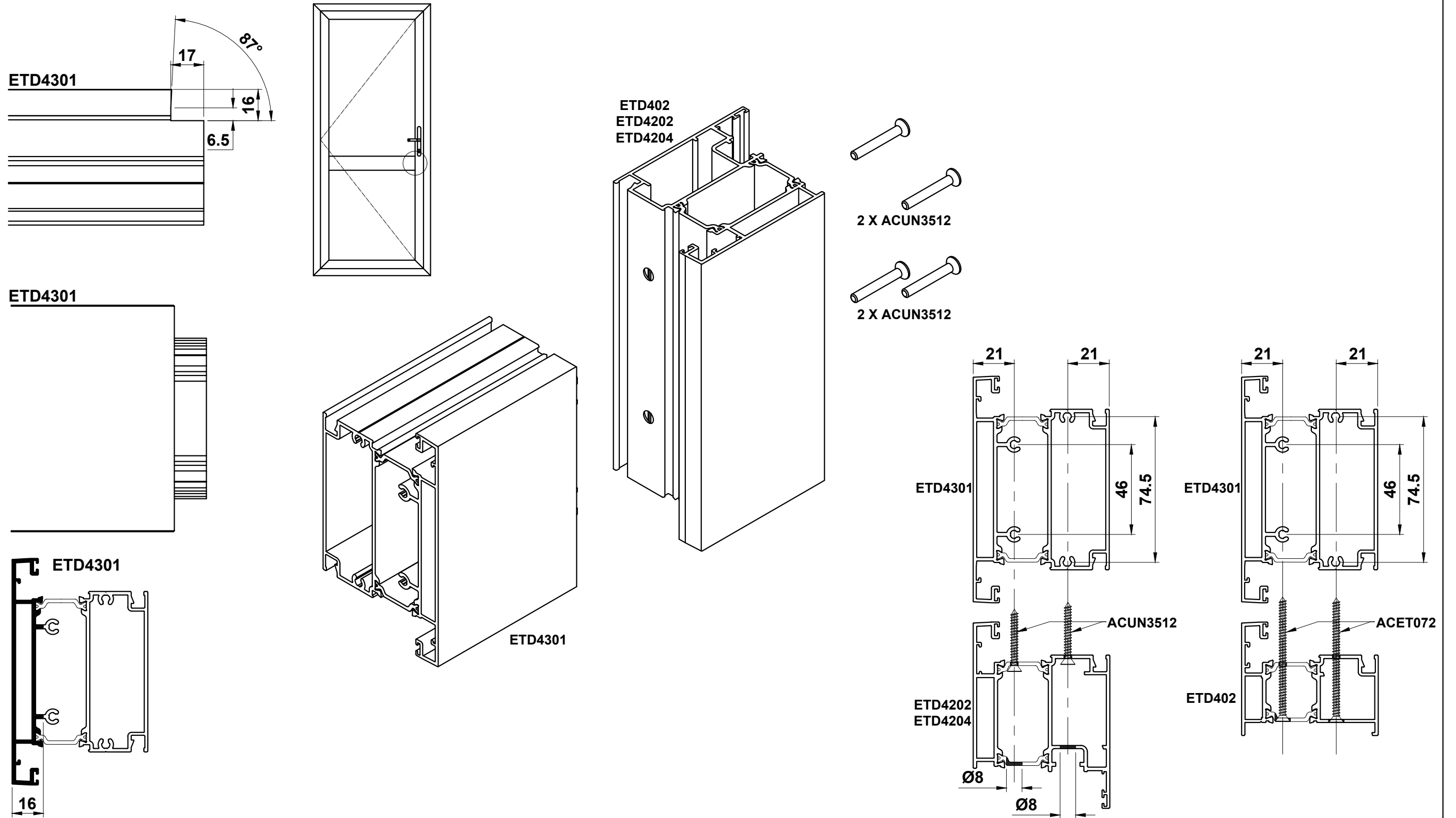


Note: 4 X ACUN3512 can be used to replace ACUL299.



Do Not Scale From This Drawing

**ETD4301 Transom Assembly**

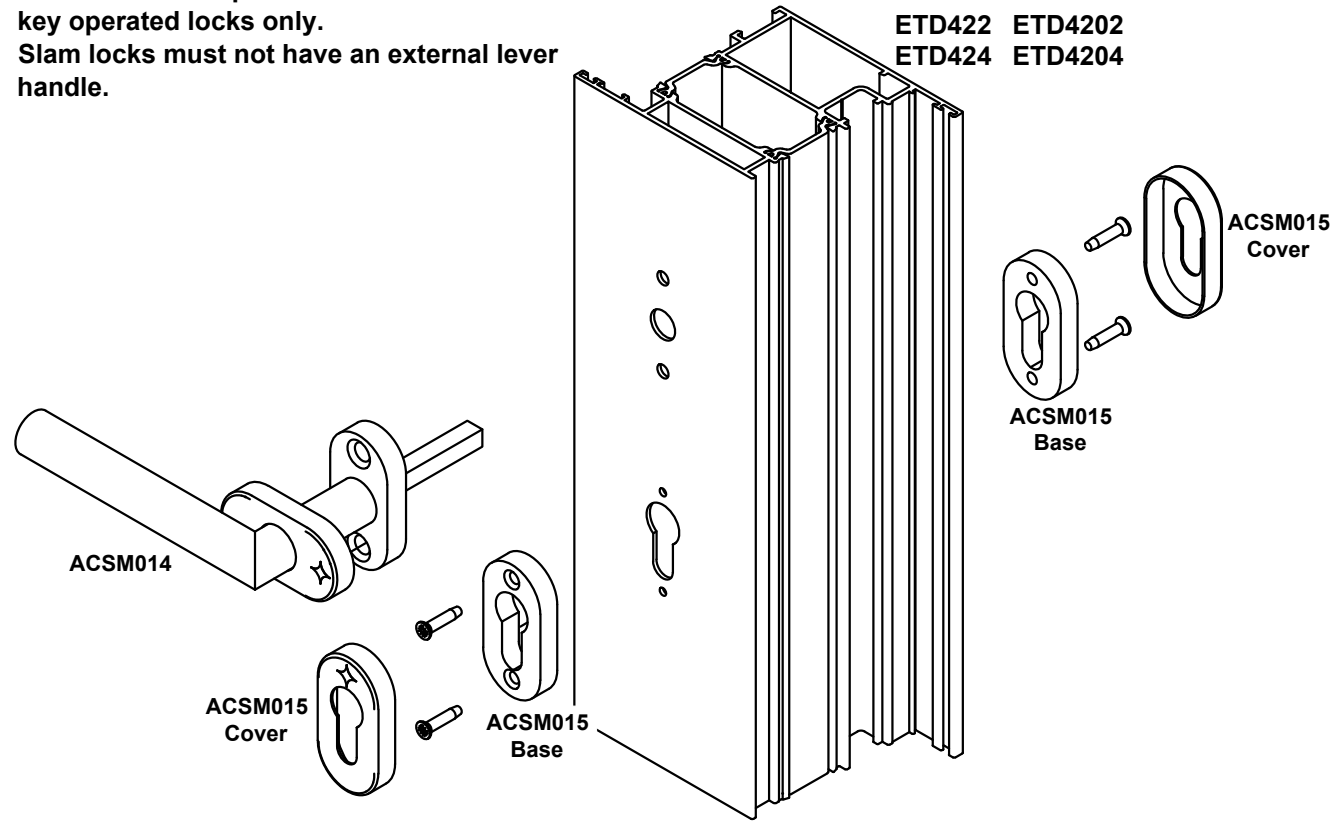


Do Not Scale From This Drawing

**Stainless Steel Hardware - ACSM013, ACSM014 & ACSM015 Fitting Detail**

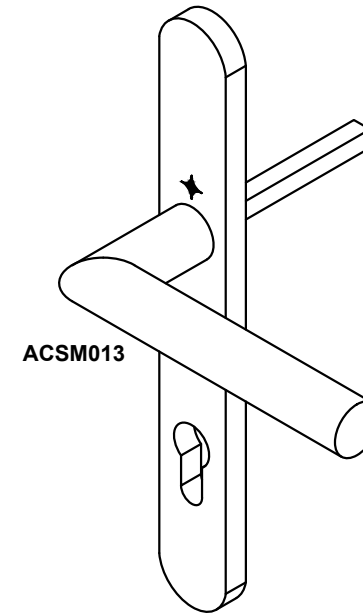
**Please Note:**

ACSM014 is compatible with slam locks and key operated locks only.  
Slam locks must not have an external lever handle.



**Please Note:**

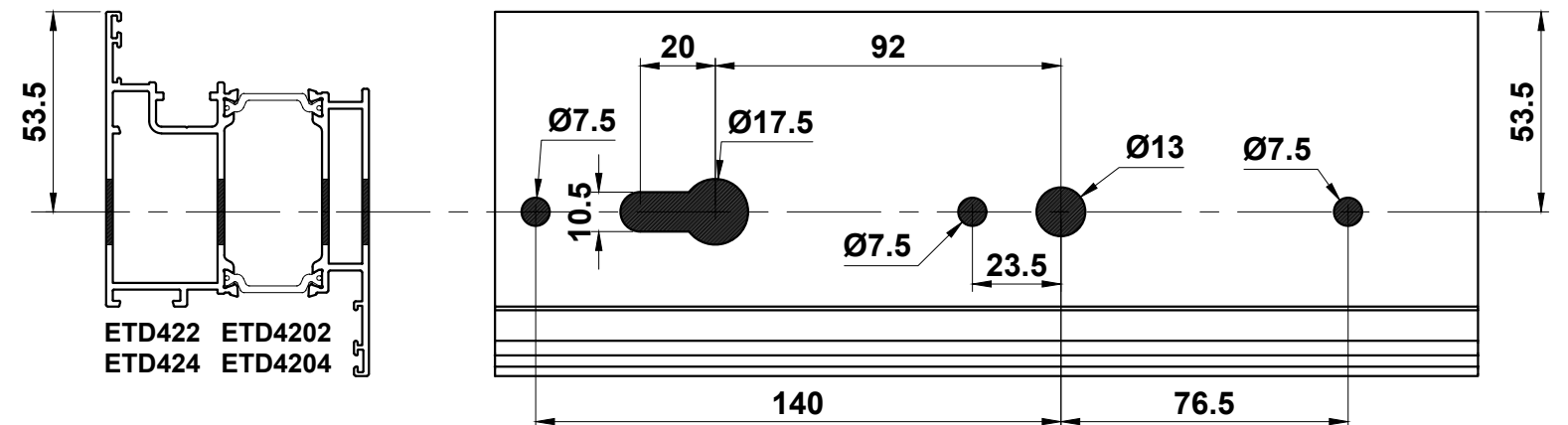
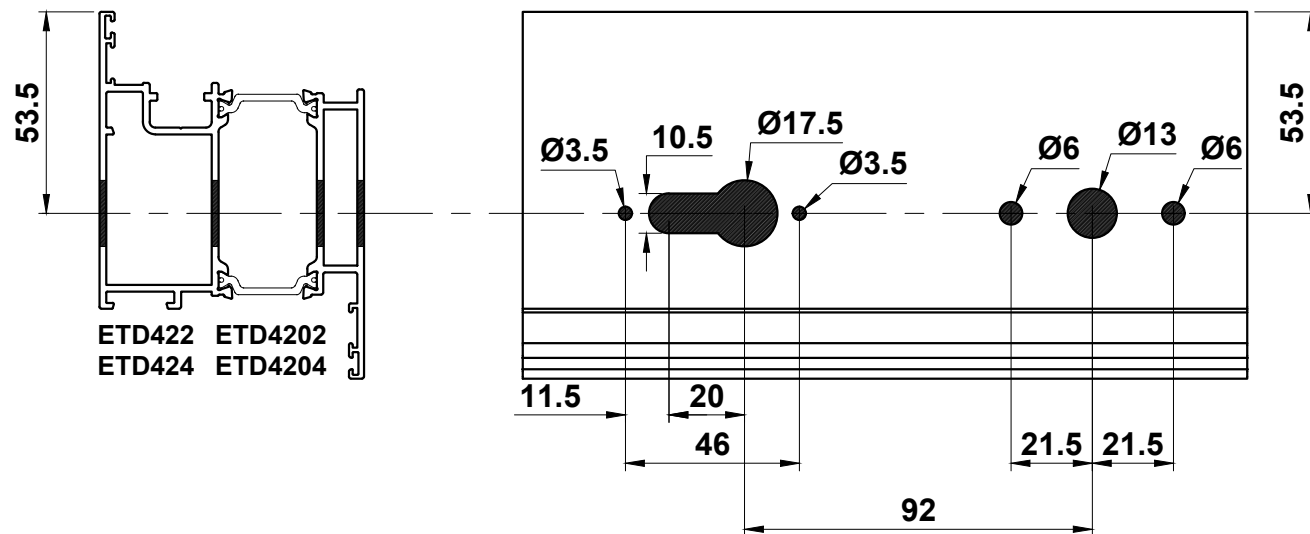
ACSM013 is compatible with all locks.  
Slam locks must not have an external lever handle therefore require WCA134 & ACUN3509 for single side fixing and the spindle will need to be cut down.



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

**Please Note:**

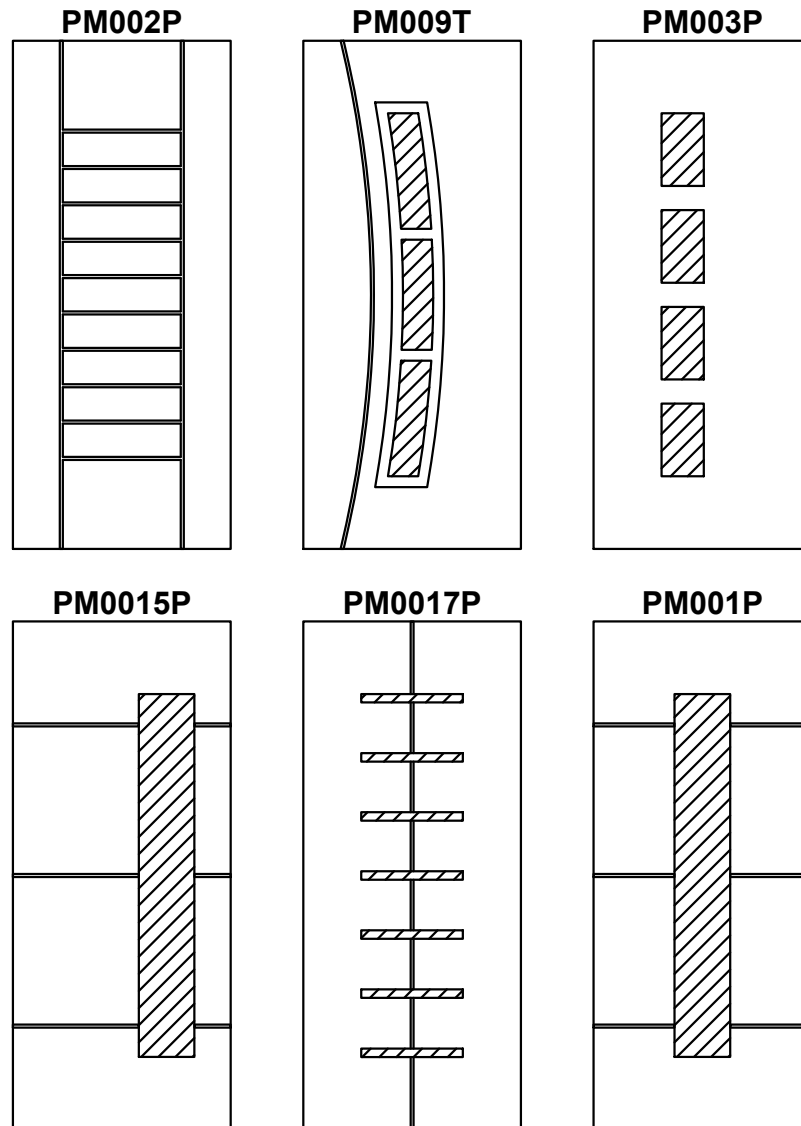
ACSM013SS pack contains;  
2 x Universal Backplate & Lever  
2 x Cover Plate  
2 x Bolt Receiver Sleeve  
2 x 40mm M5 Machine Screws  
2 X 60mm M5 Machine Screws  
1 x 3mm Allen Key  
1 x 170mm Spindle



Do Not Scale From This Drawing

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/m<sup>2</sup>K 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 <sup>2</sup> K)	Door U-Value (W/m <sup>2</sup> 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 <sup>2</sup> K)	Door U-Value (W/m <sup>2</sup> 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

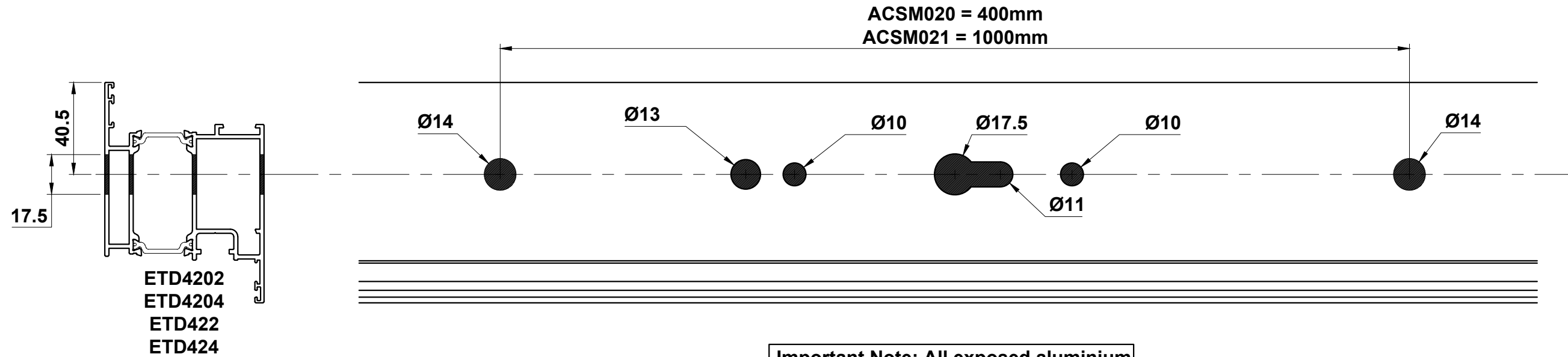
28mm Panel Thickness

Panel Number	CP U-Value (W/m <sup>2</sup> K)	Door U-Value (W/m <sup>2</sup> 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

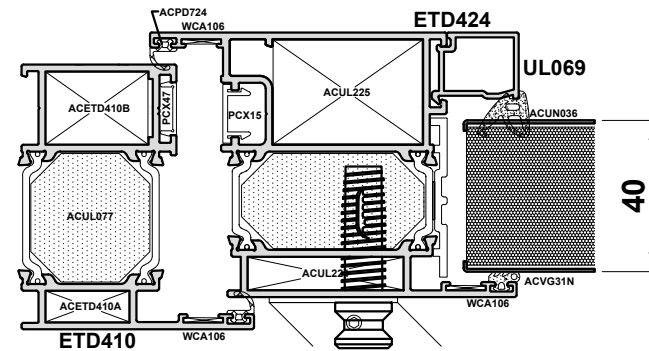
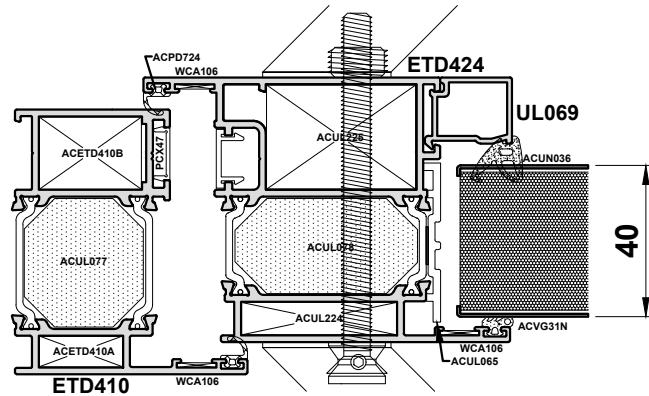
For more information and panel designs please visit our website, [www.smartsystems.co.uk](http://www.smartsystems.co.uk) or call our sales team on 01934 876100.

Do Not Scale From This Drawing

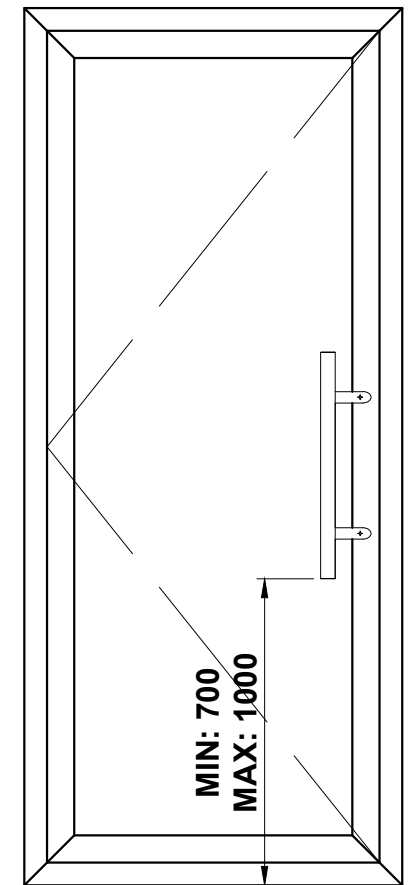
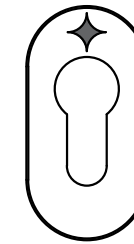
**ACSM020 & ACSM021 Fitting Detail**



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



**ACSM015**



**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.**

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

**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

**Key Operated Lock Guide**

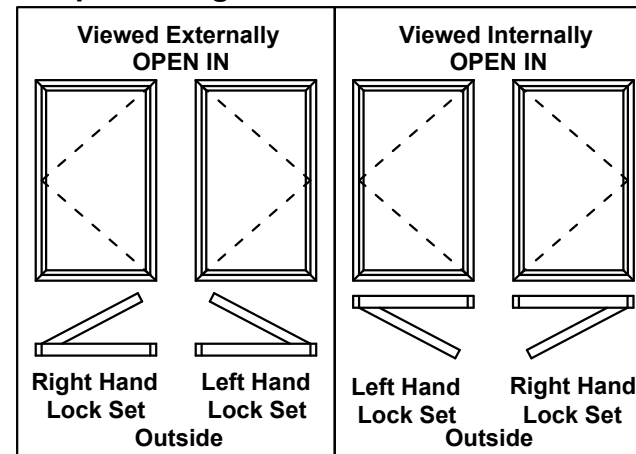
Overall Sash Height	Spindle Height (X)	Kit Part Number	
		Left Hand	Right Hand
2030-2230 (Standard)	1050	ACUL282	ACUL283
1820-2029 (Short)	1050	ACUL362	ACUL363
2231-2450 (Tall)	1050	ACUL382	ACUL383

Note: Height limits apply to all threshold options.

**Handle With Large Backplate Guide**

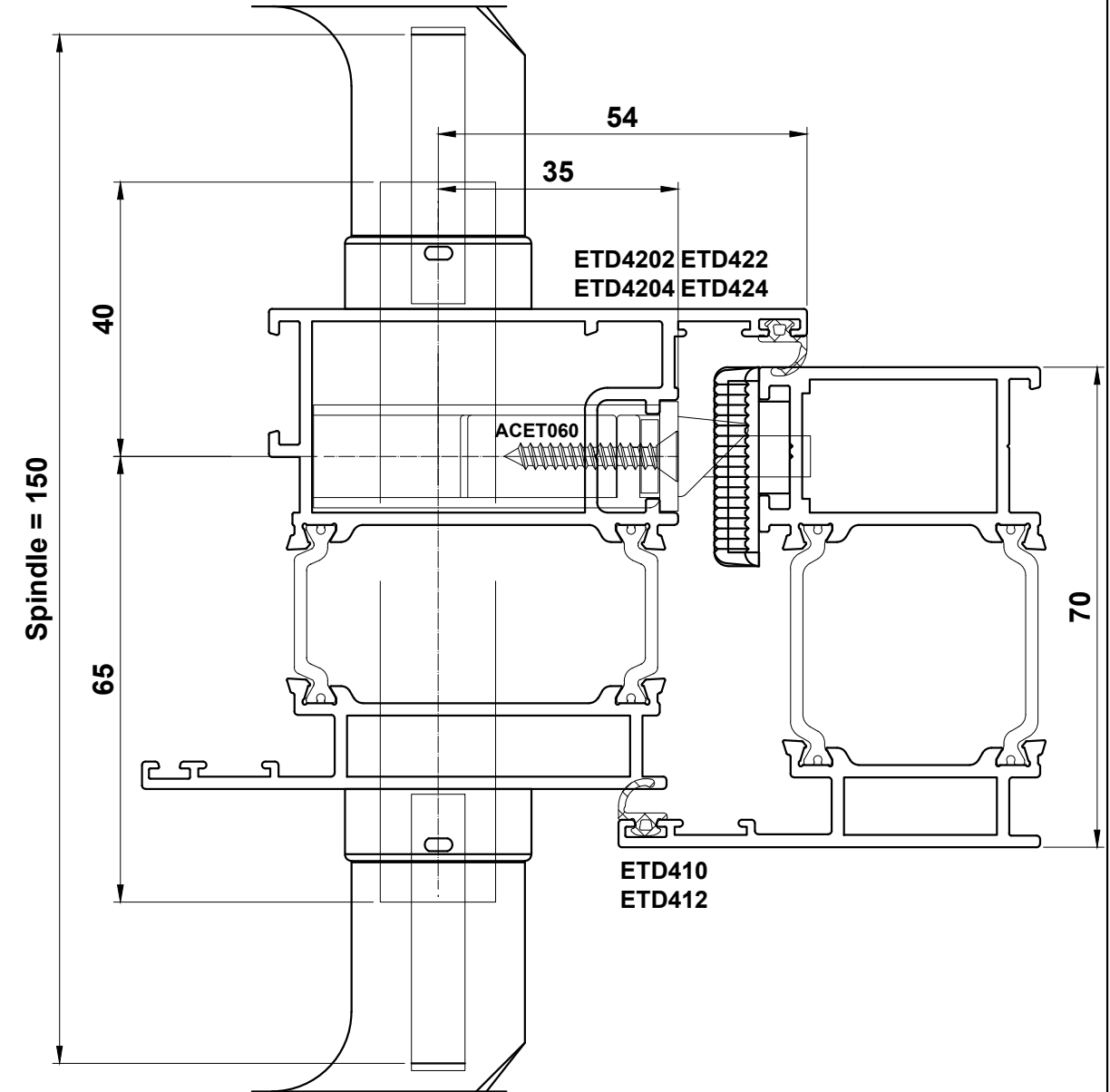
Ext. Handle	Int. Handle	Spindle	Cylinder	Screw
ACSZ800 <del>✗</del>	ACSZ801 <del>✗</del> ACSZ803 <del>✗</del> ACSZ830 <del>✗</del>	ACMX409Sq. Spindle 150mm	ACMX035 Half Cylinder	ACMX861 M5 x 75mm
ACSZ802 <del>✗</del>	ACSZ803 <del>✗</del> ACSZ830 <del>✗</del>		ACCY6035S3 35/60 Cylinder	
ACSZ400 + 2 x ACVS061	ACSZ803 <del>✗</del> ACSZ830 <del>✗</del>	ACMX008 Sq. Spindle 60mm	ACCY6035S3 35/60 Cylinder	ACVS061 M5 x 40mm

**Keep Handing Guide**



**Handle with Small Backplate Guide**

Ext. Handle	Ext. Escutcheon	Int. Handle	Int. Escutcheon	Spindle	Cylinder	Screw	Rivnuts
ACSZ837 <del>✗</del>	ACSZ400	ACSZ836 <del>✗</del>	ACSZ400	ACMX409Sq. Spindle 150mm	ACCY6035S3 ACMX0035	WCA134 M5 x 20mm	ACUN3501 M5
	ACSZ400			ACMX008 Sq. Spindle 60mm	ACCY6035S3 ACMX0035	WCA134 M5 x 20mm	ACUN3501 M5
ACSZ837 <del>✗</del>	ACSZ400	ACSZ827 <del>✗</del>		ACMX409Sq. Spindle 150mm	ACCY6035S3 ACMX0030	WCA134 M5 x 20mm	ACUN3501 M5

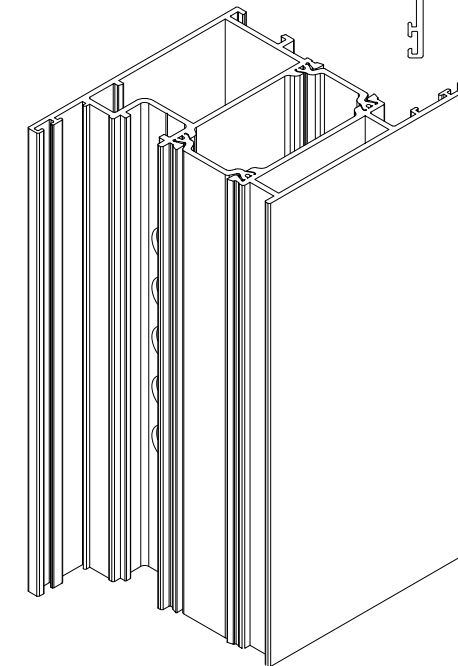
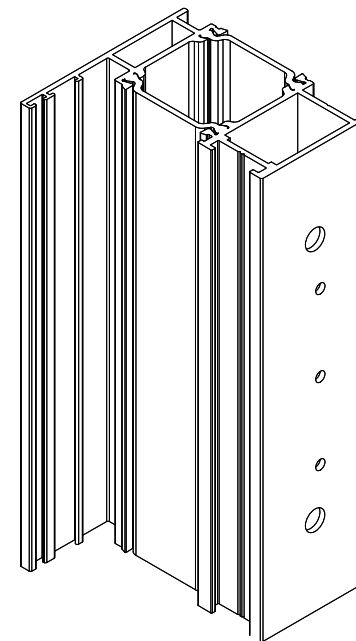
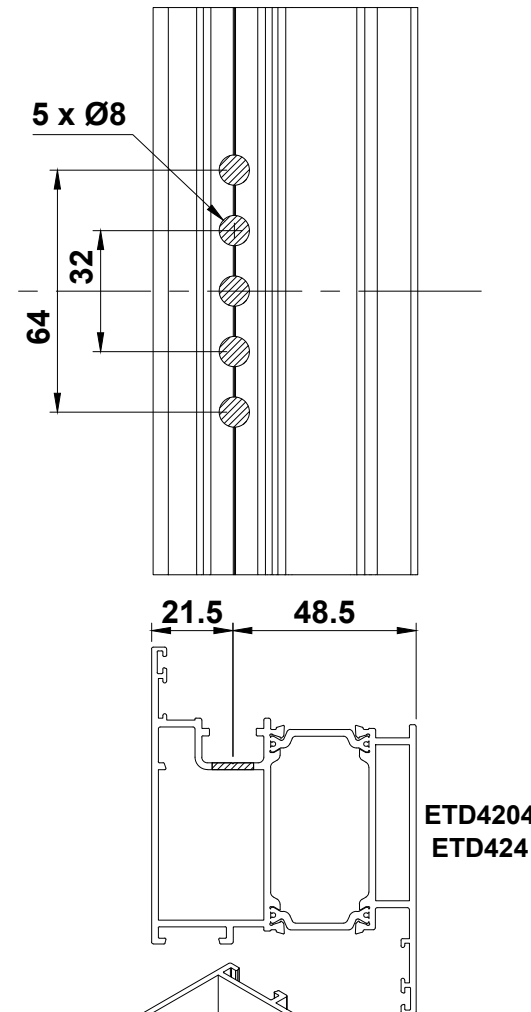
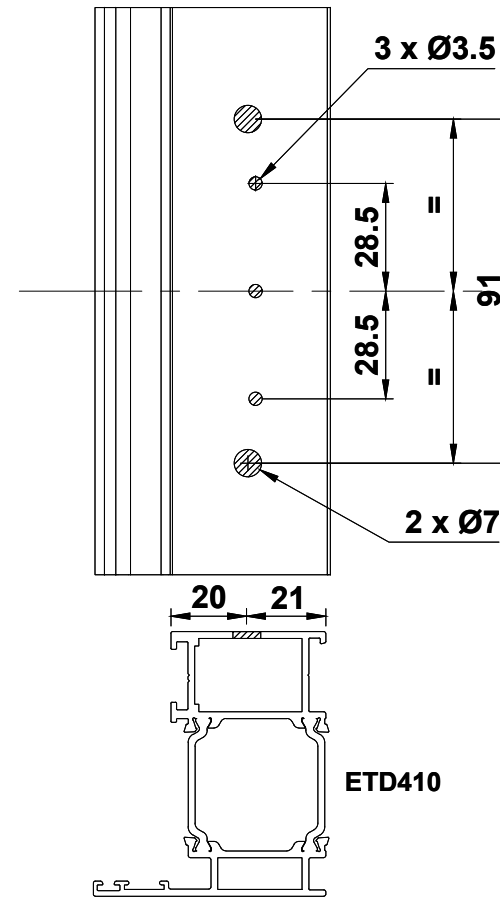
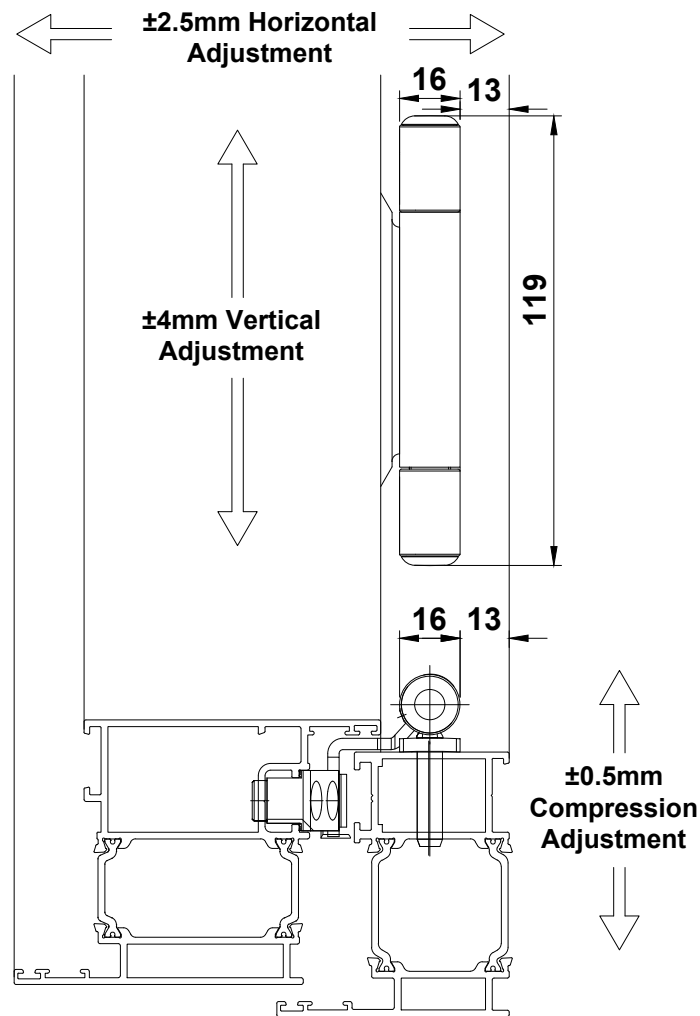
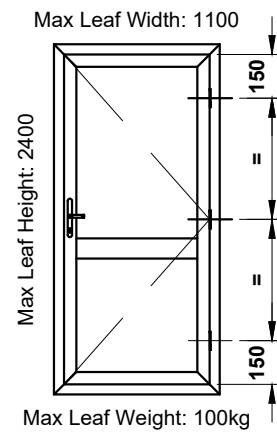


- With Cylinder
- Without Cylinder
- T Handle With Cylinder
- T Handle Without Cylinder

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

Do Not Scale From This Drawing

**ACUL250 Hinge Preparation**



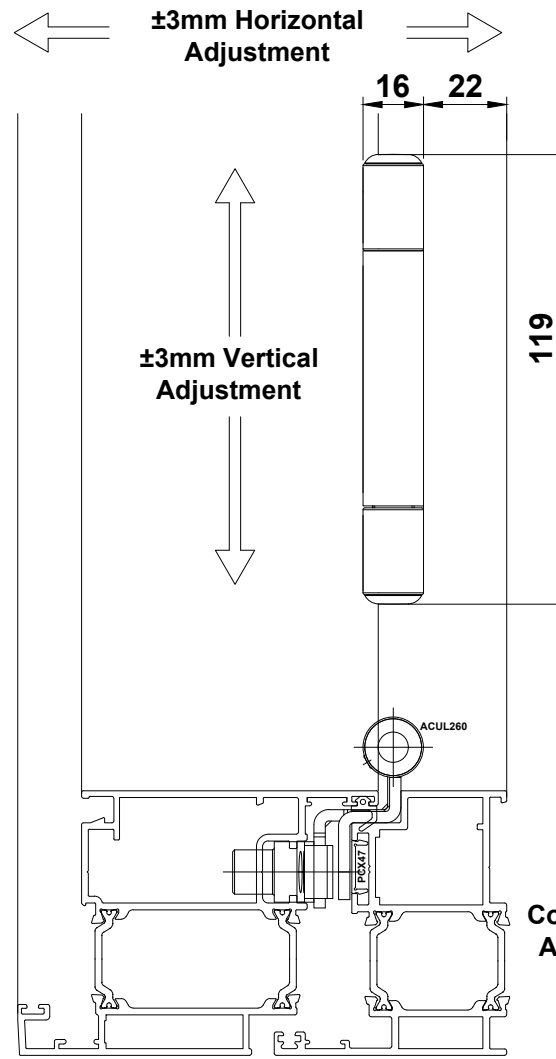
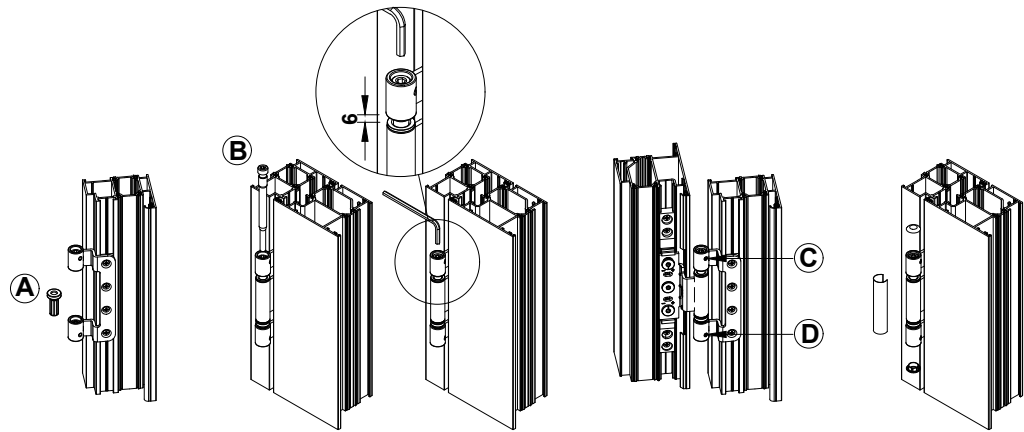
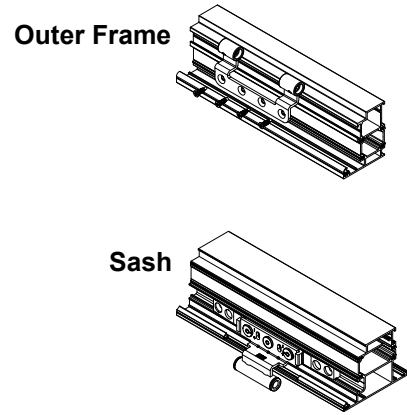
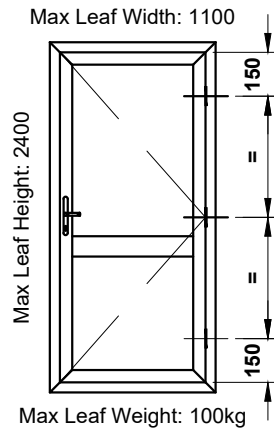
**Fitting Instructions:**

(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.

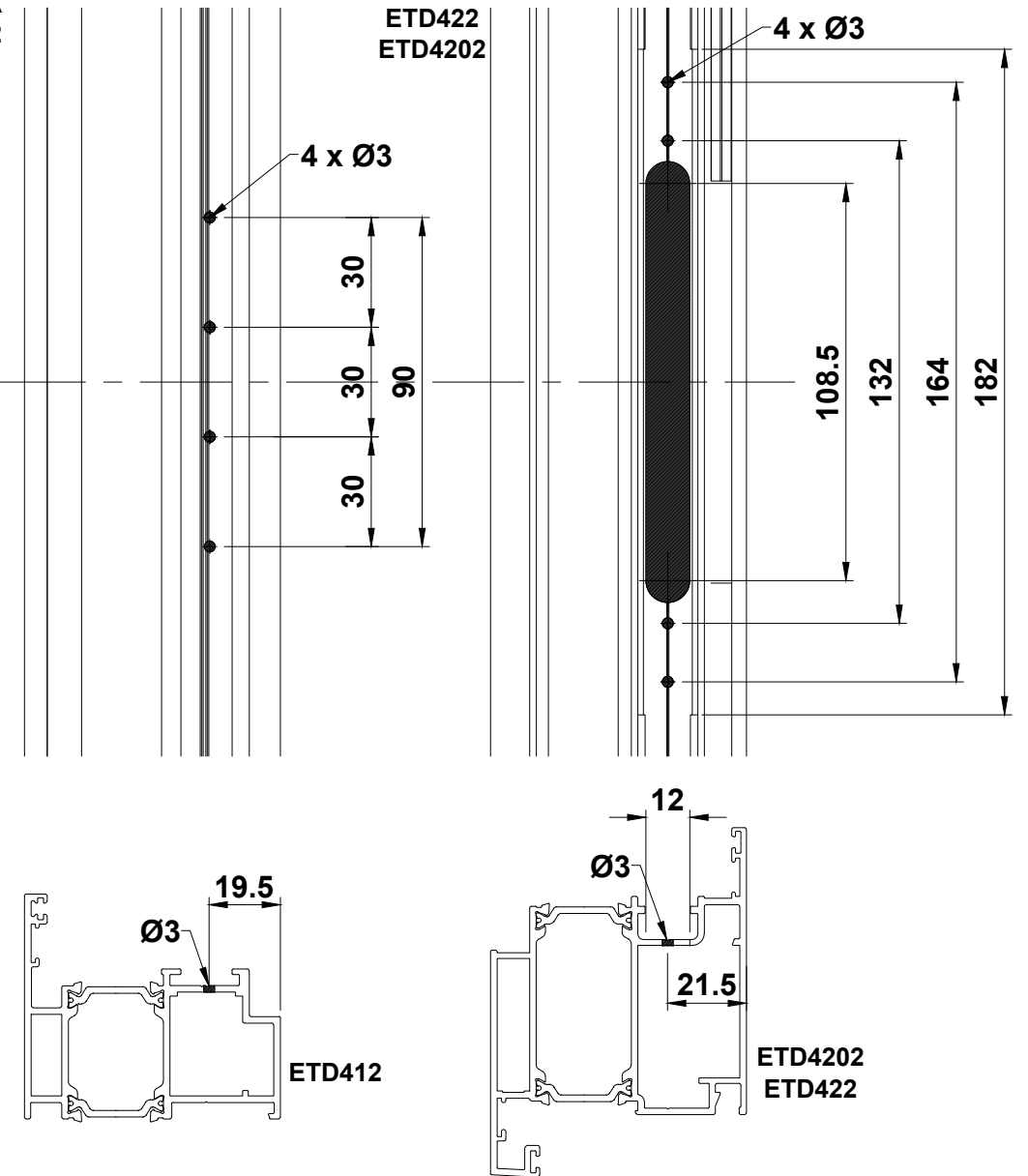
**Do Not Scale From This Drawing**

**ACUL260 Hinge Preparation**



Detail A  
ETD412

Detail B  
ETD422  
ETD4202



**Fitting Instructions:**

1. Measure and mark the hinge centrelines on the sash & outer frame
2. Mark, drill & machine to the dimensions shown in details A & B
3. Fasten the outer frame hinge part using 4 x ACUN3512 screws
4. Fasten the sash hinge part using 4 x ACUN3512 screws ensuring the grub screws are positioned towards the door sash
5. Using the outer frame hinge part as a guide, remove excess gasket from the sash
6. Insert Bush (A) into the bottom ring
7. Insert the sash into the frame and screw in the pin (B) with a 4mm Allen Key until a 6mm gap is reached
8. Open the sash and screw in the security screws (C) & (D)
9. Fit cover and insert caps



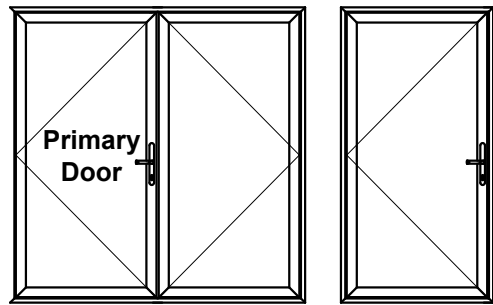
**ACUN3512**  
No.8 x 32 CSK SS  
Self Tapping Screw

Do Not Scale From This Drawing



**Lock Overview of Single and Double Doors**

**Finger Bolt Locking Options**

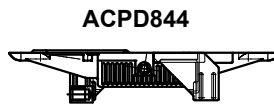


**Single & Primary Door Lock Selection**

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

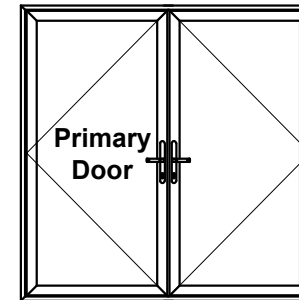
\*Any doors above 2450mm are above the tested limit.

**Secondary Door Accessory Selection**

35mm Backset Shootbolt Adaptor	Bottom 10mm Dia Rod	Top 10mm Dia Rod		Keep	Shootbolt Guide
		Overall Size	Rod Part No.		
 ACPD844	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**



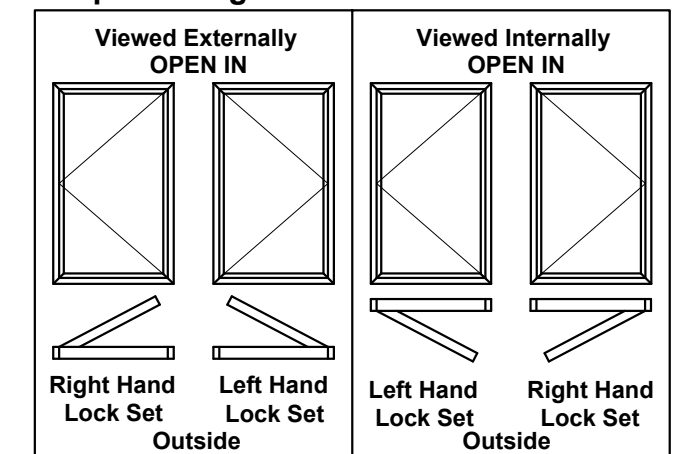
**Double Handle Lift Lever Lock Option**

Overall Sash Height	Primary Door Lift Lever		Secondary Door Lift Lever	Double Door Keep	Shootbolts	Shootbolt Extensions
	Left	Right				
980-2450*	ACUL277	ACUL278	ACUL276	ACUL279	ACDV737 ACDV738	ACDV742 ACDV744

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

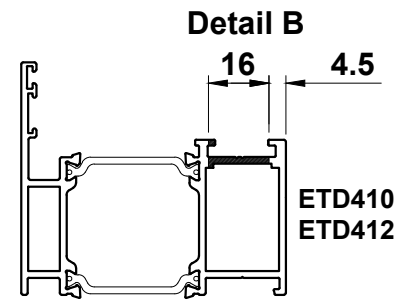
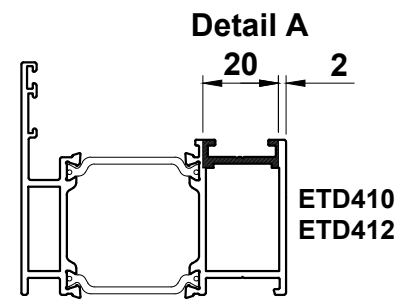
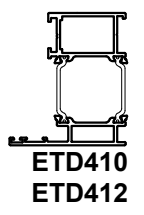
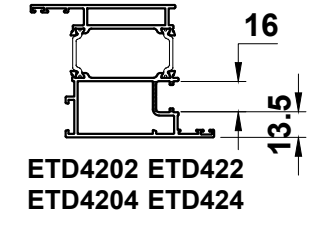
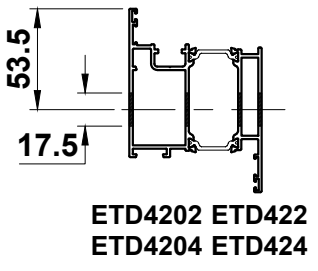
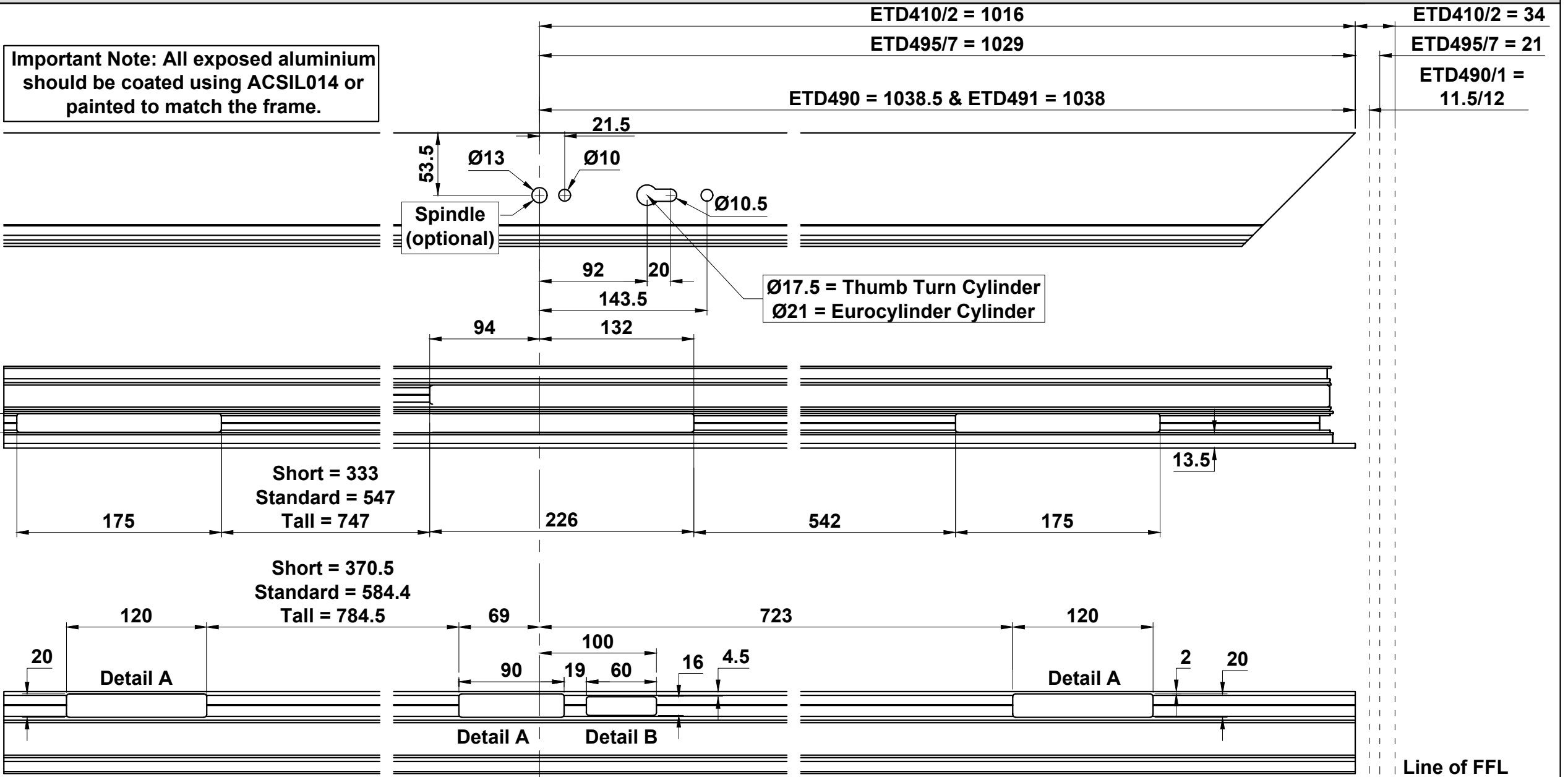
\*\*Please see page E17 for shootbolt layout.

**Keep Handing Guide**



Do Not Scale From This Drawing

Single Door Lock Preparation



Lock Kits

Height	Slam Lock		Key Wind		Lift Lever	
	Left Hand	Right Hand	Left Hand	Right Hand	Left Hand	Right Hand
Short	ACUL360	ACUL361	ACUL362	ACUL363	ACUL377	ACUL378
Standard	ACUL280	ACUL281	ACUL282	ACUL283	ACUL272	ACUL273
Tall	ACUL380	ACUL381	ACUL382	ACUL383	ACUL374	ACUL375

Do Not Scale From This Drawing



**Construction Drawings - Open In**

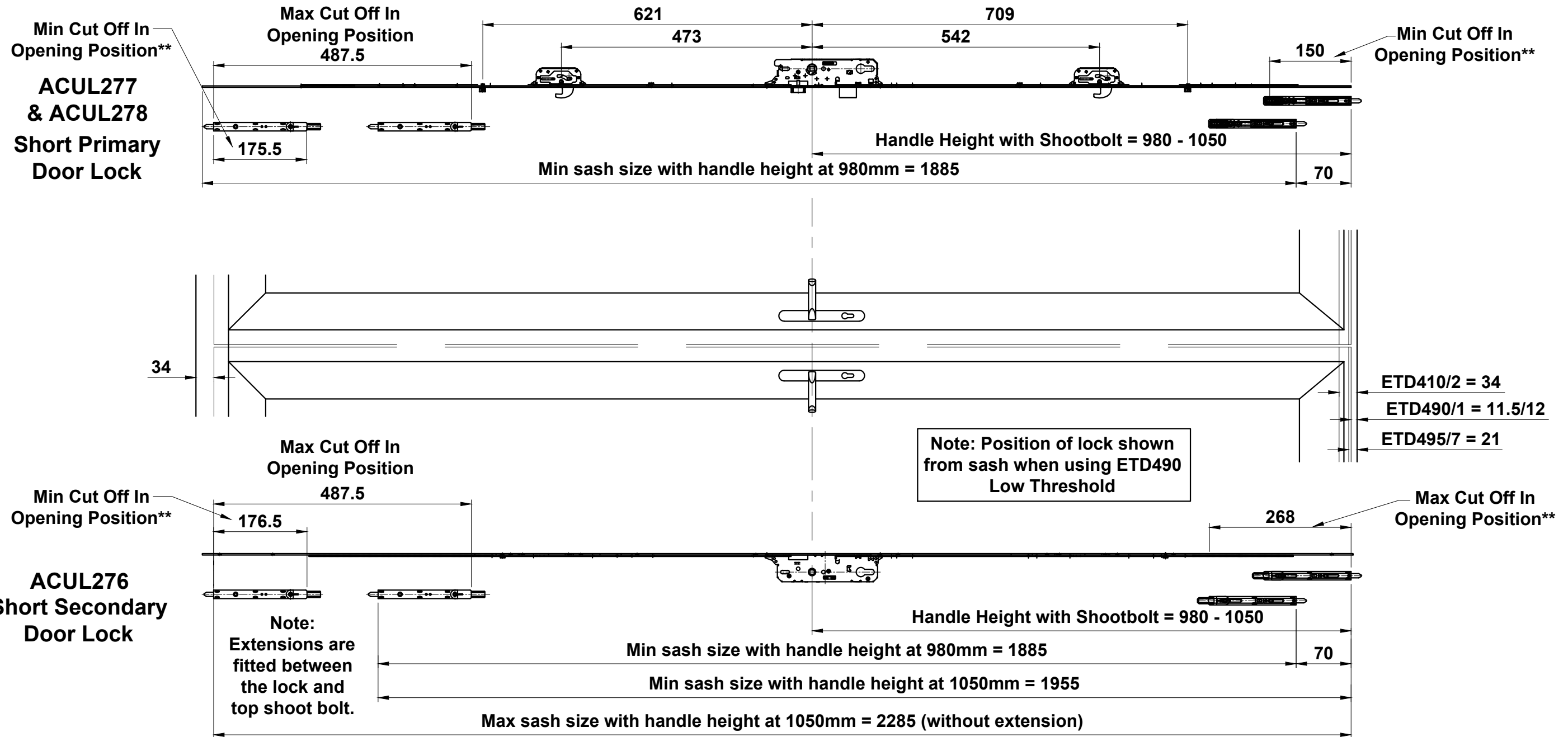
**Double Door Lift Lever**

Stepped		Flush	
Shootbolt Layout.....	E24	Shootbolt Layout.....	E24
Full Frame Preparation.....	E25 - E26	Full Frame Preparation.....	E27 - E28
Low Rebate Preparation.....	E29 - E30	Low Rebate Preparation.....	E31 - E32
Low Ramp Preparation.....	E33 - E34	Low Ramp Preparation.....	E35 - E36

Do Not Scale From This Drawing

**Double Door Lift Lever Shootbolt Layout**

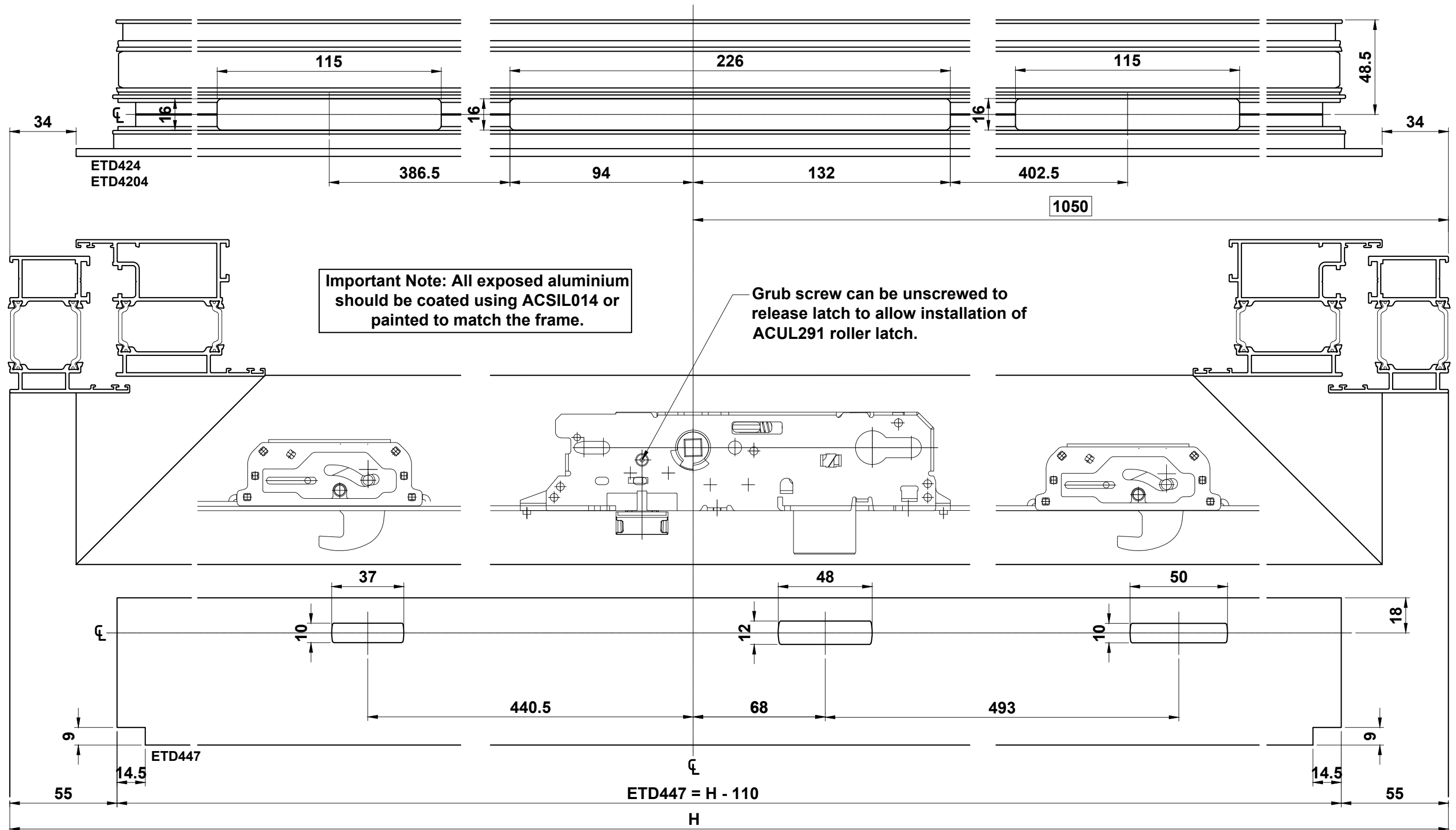
Note: ACDV742 & ACDV744 extensions may used with all locks



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

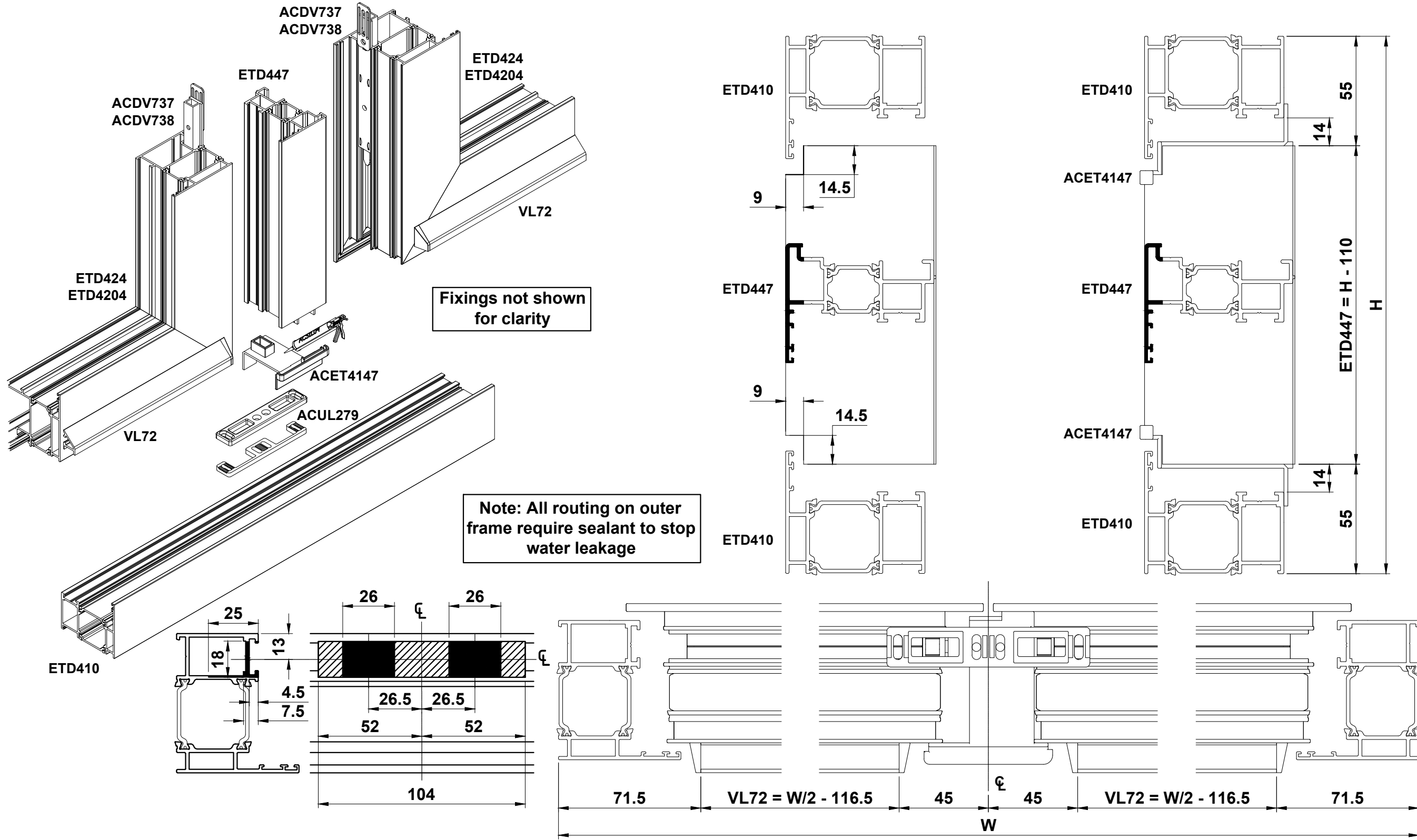
Do Not Scale From This Drawing

Double Door Lift Lever Lock Preparation for Full Frame



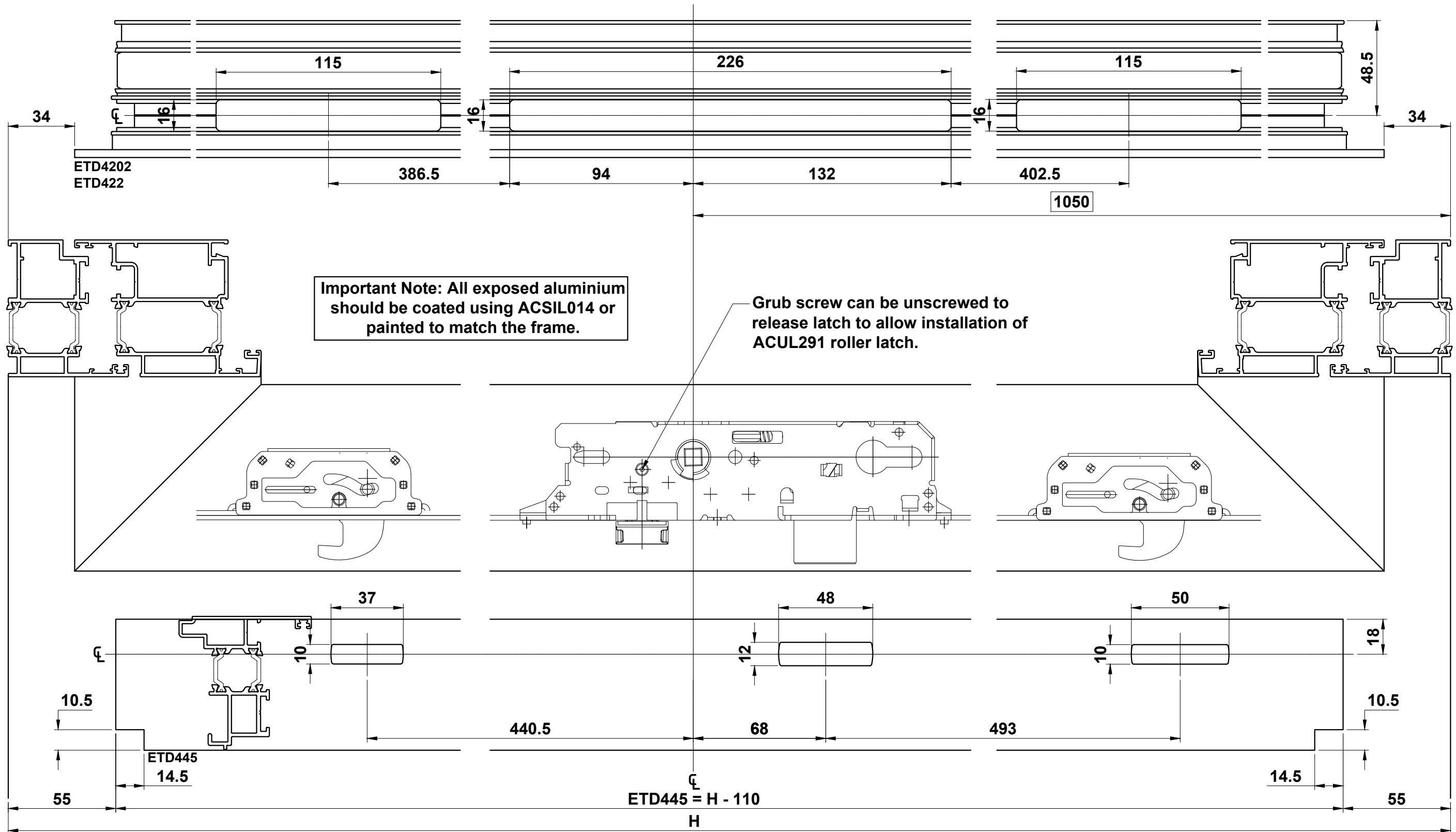
Do Not Scale From This Drawing

**Double Door Lift Lever Meeting Stile Assembly for Full Frame**



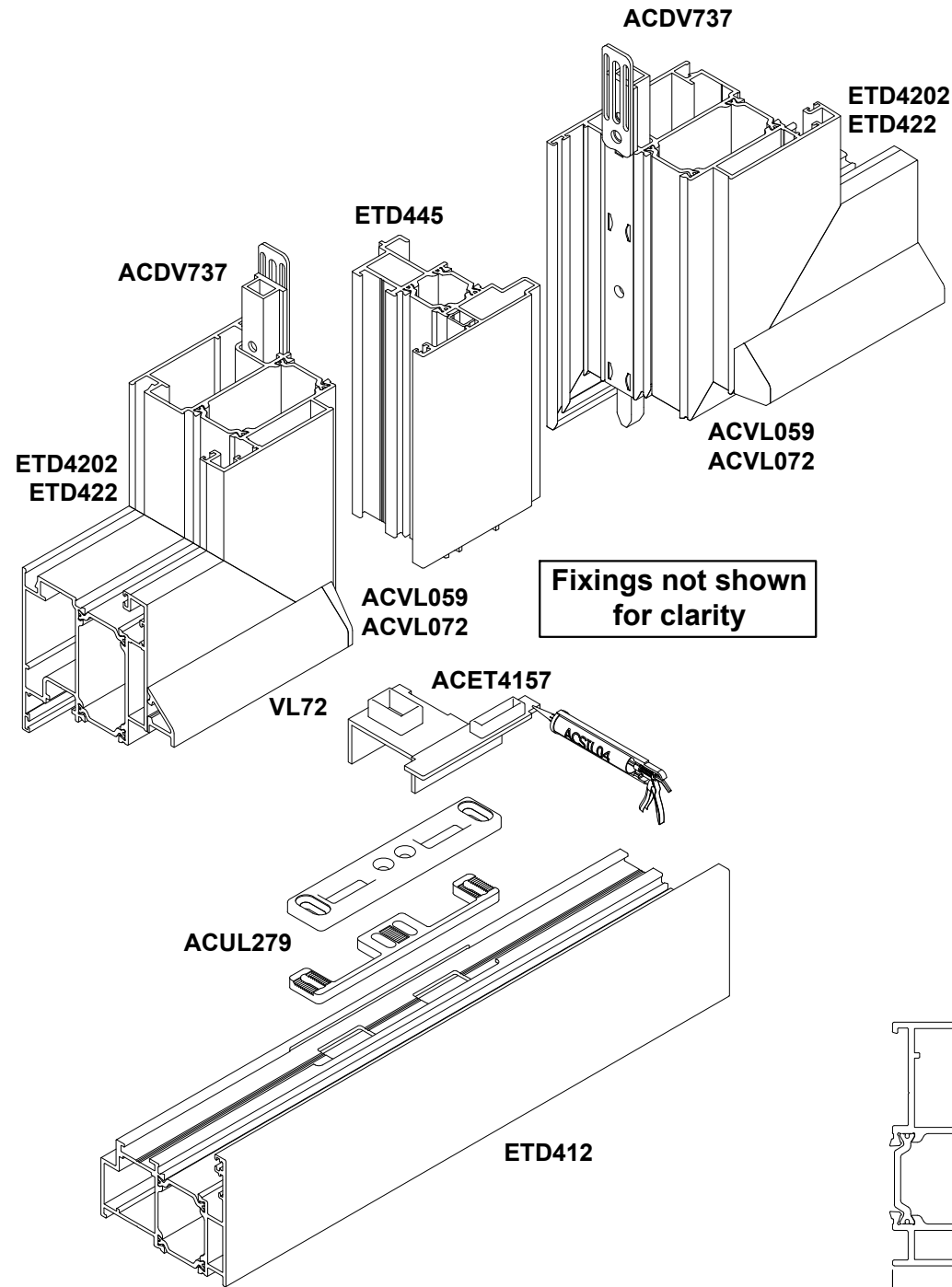
Do Not Scale From This Drawing

**Flush Double Door Lift Lever Lock Preparation for Full Frame**

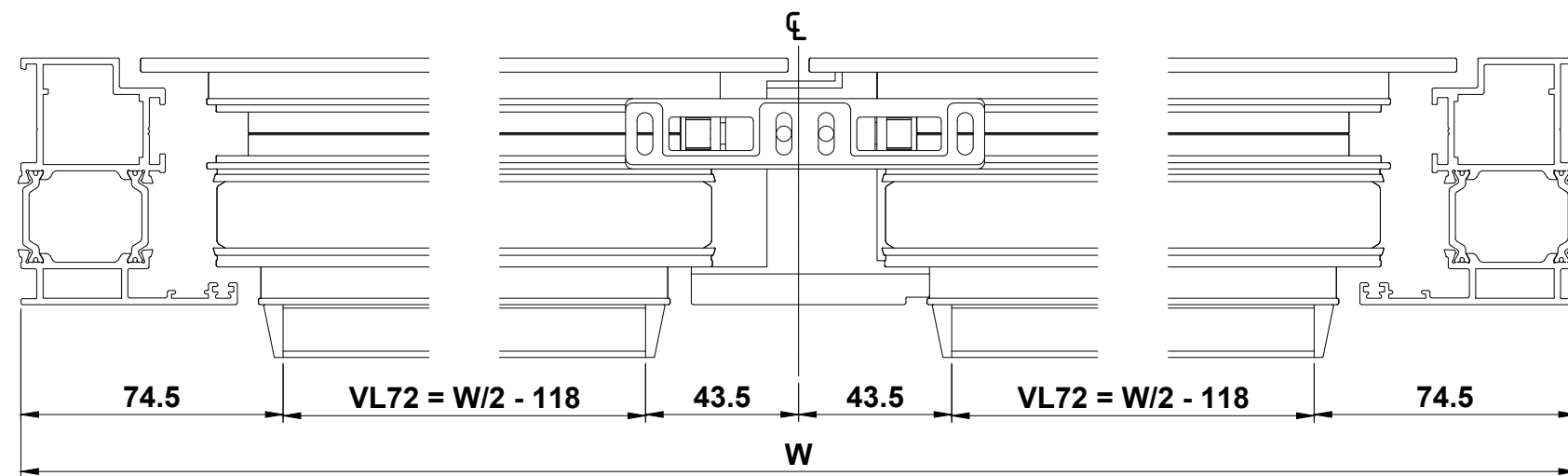
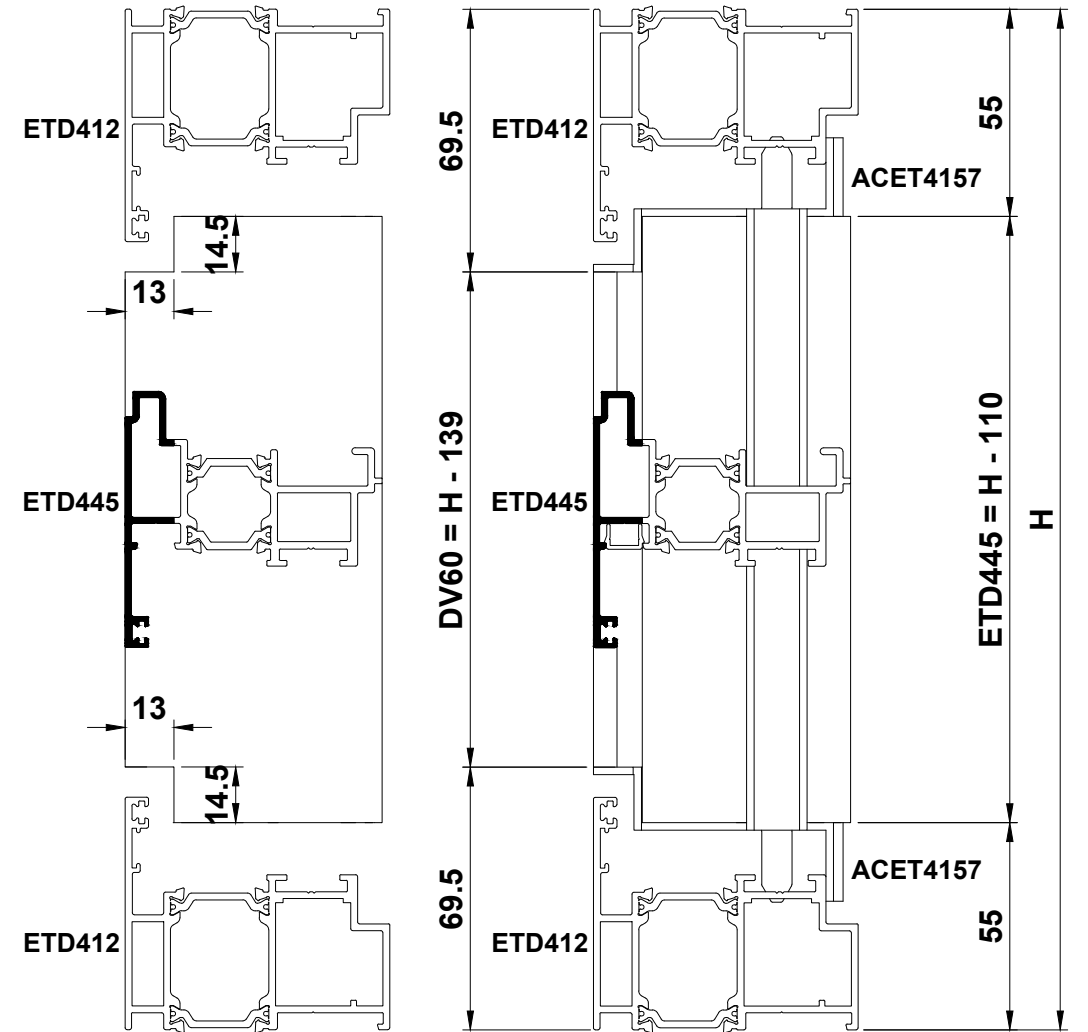
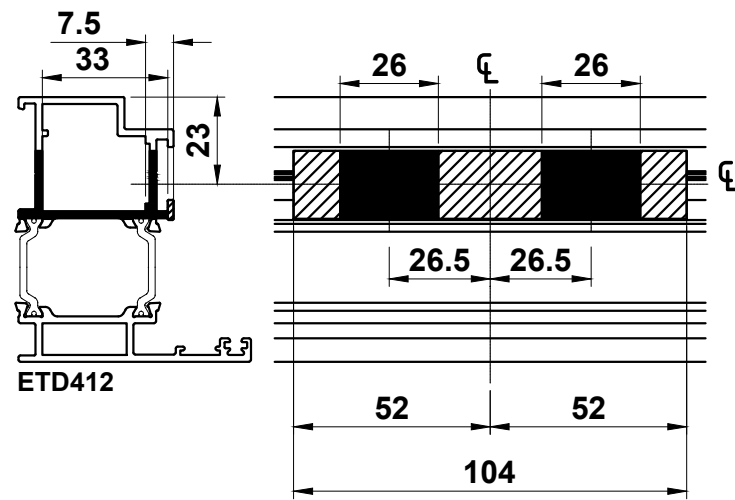


Do Not Scale From This Drawing

Flush Double Door Lift Lever Meeting Stile Assembly for Full Frame



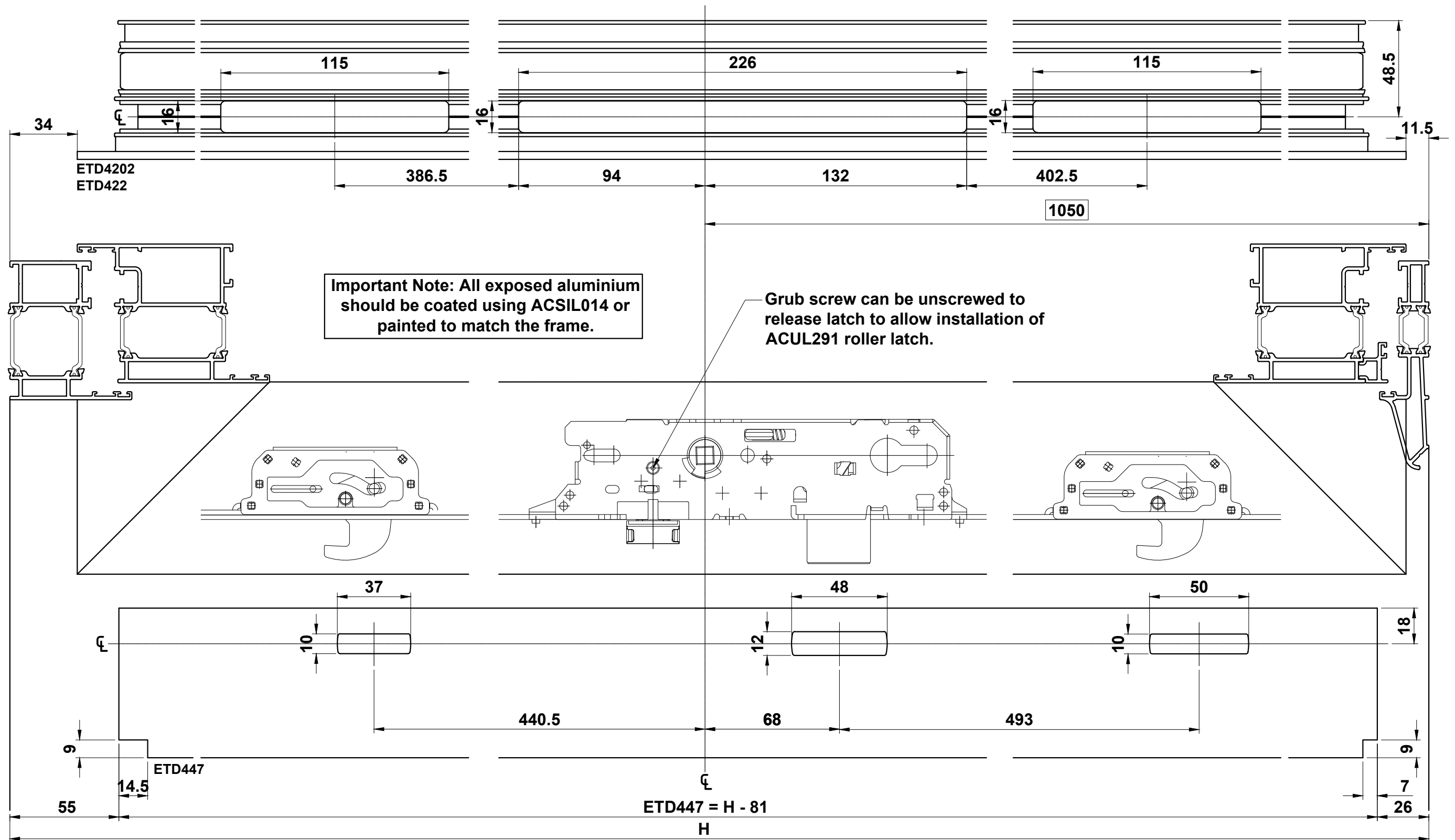
Note: All routing on outer frame require sealant to stop water leakage



Do Not Scale From This Drawing

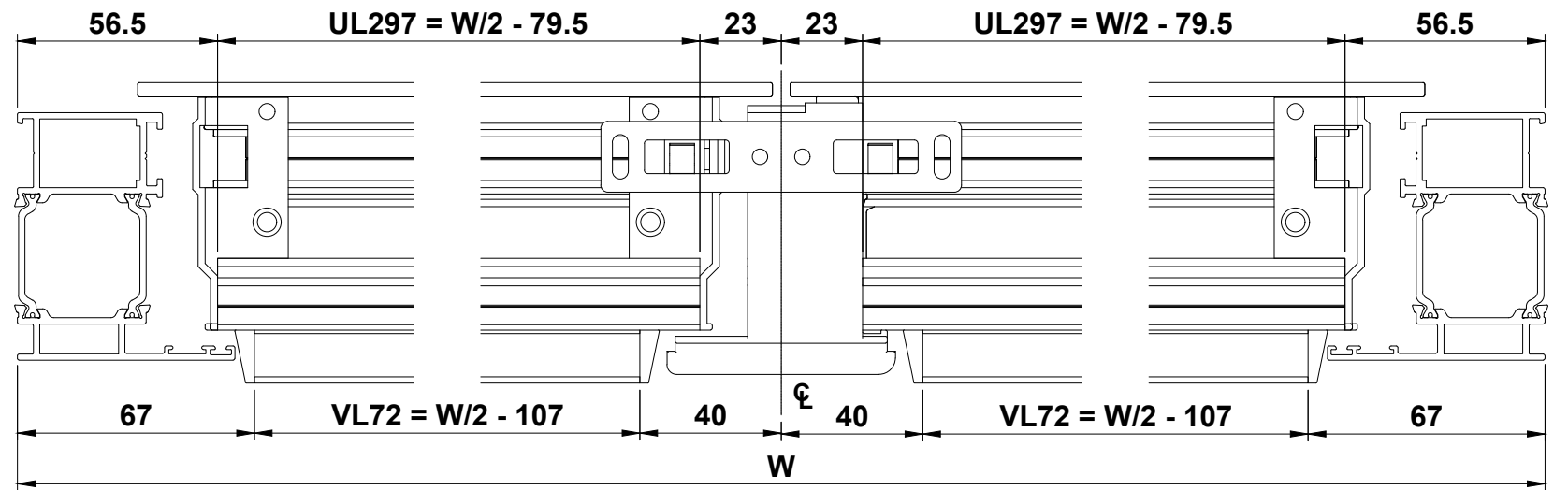
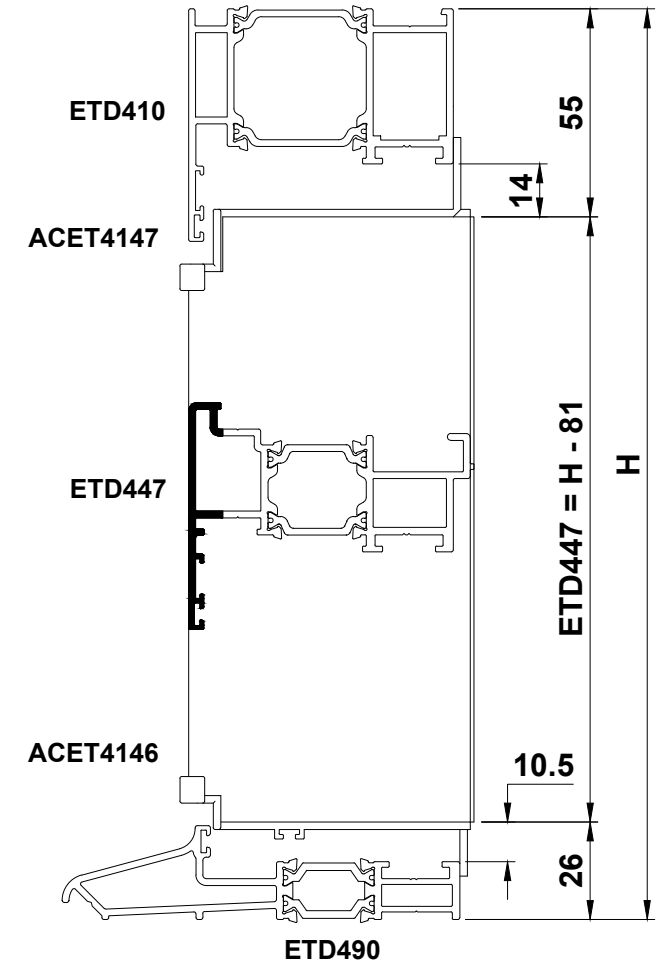
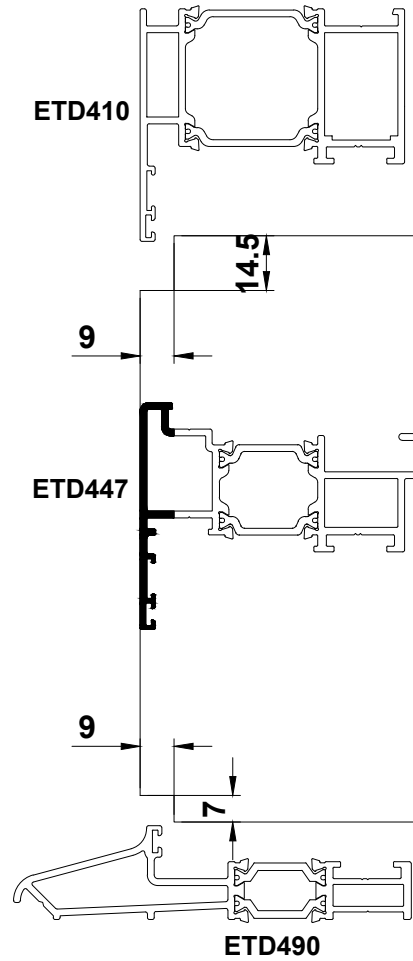
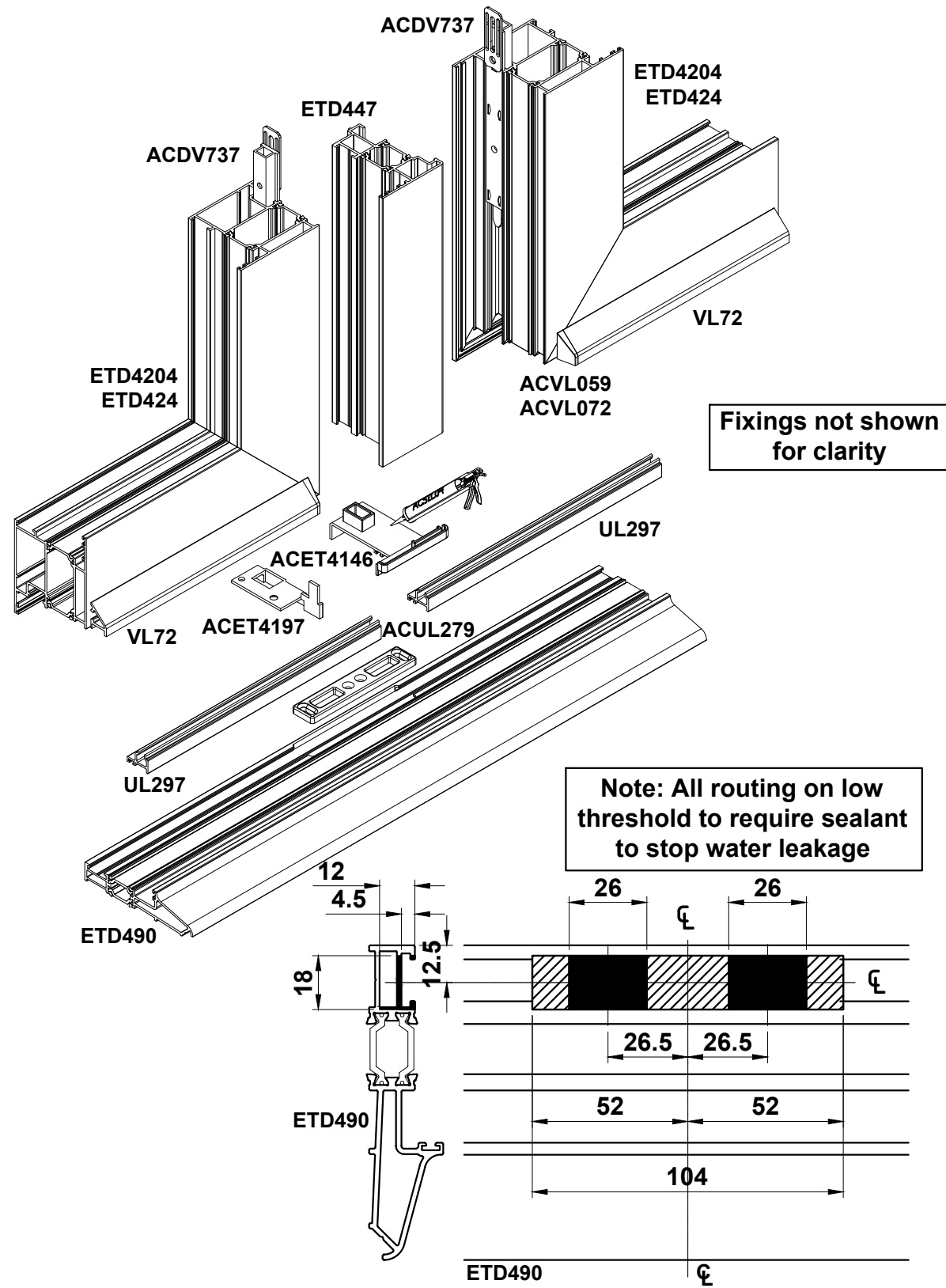


Double Door Lift Lever Lock Preparation for Low Rebate Threshold



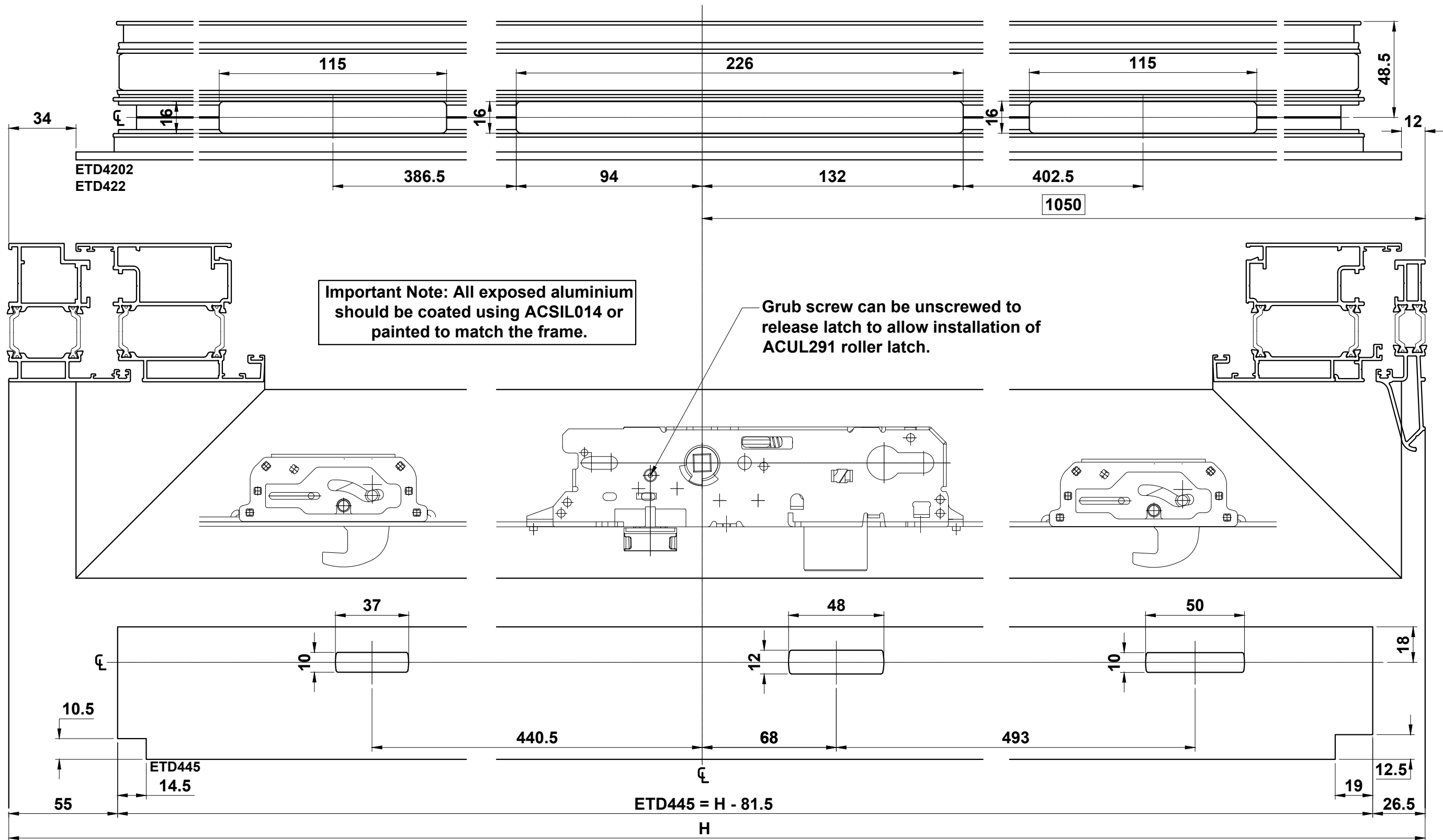
Do Not Scale From This Drawing

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



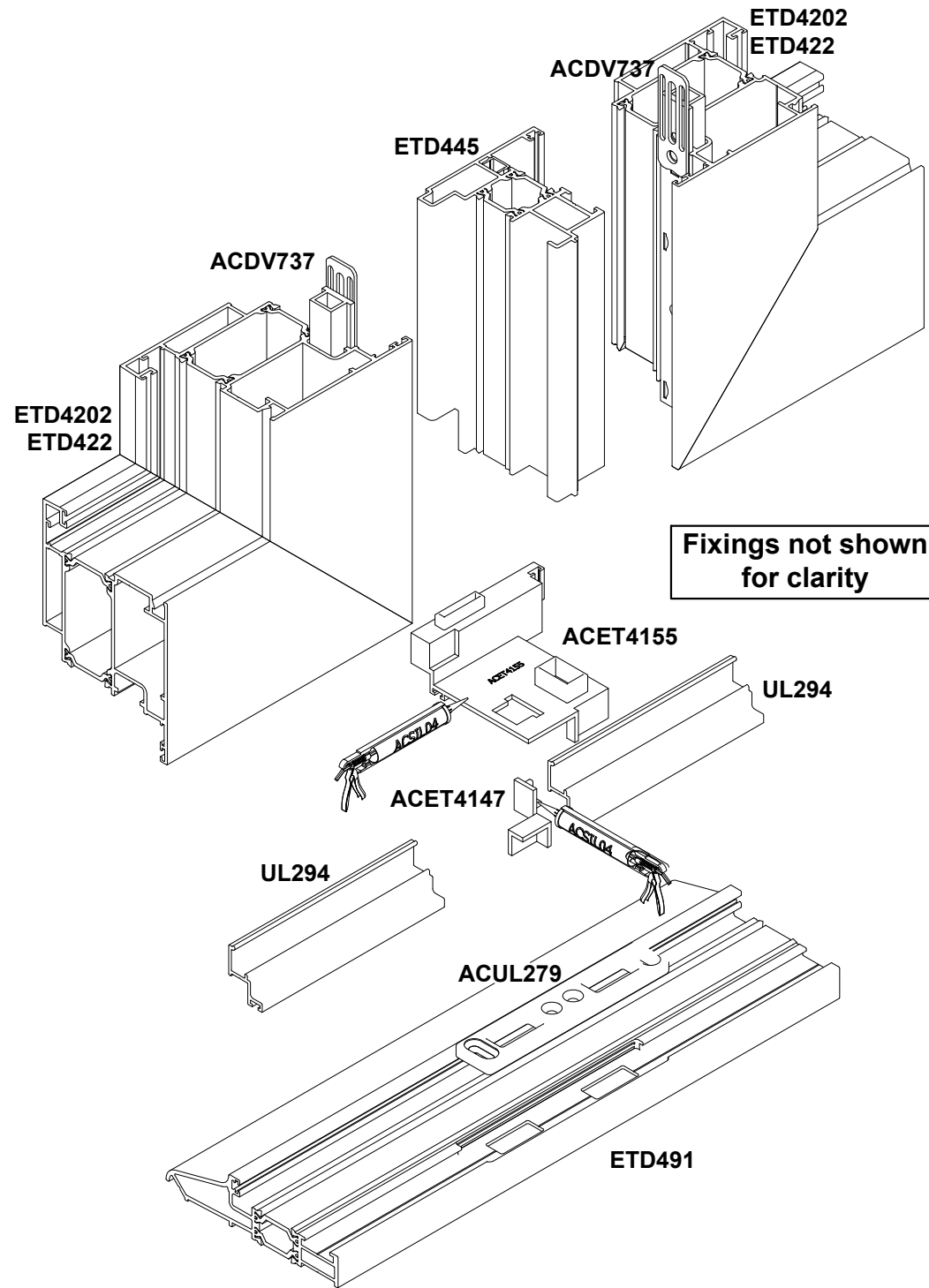
Do Not Scale From This Drawing

Flush Double Door Lift Lever Lock Preparation for Low Rebate Threshold

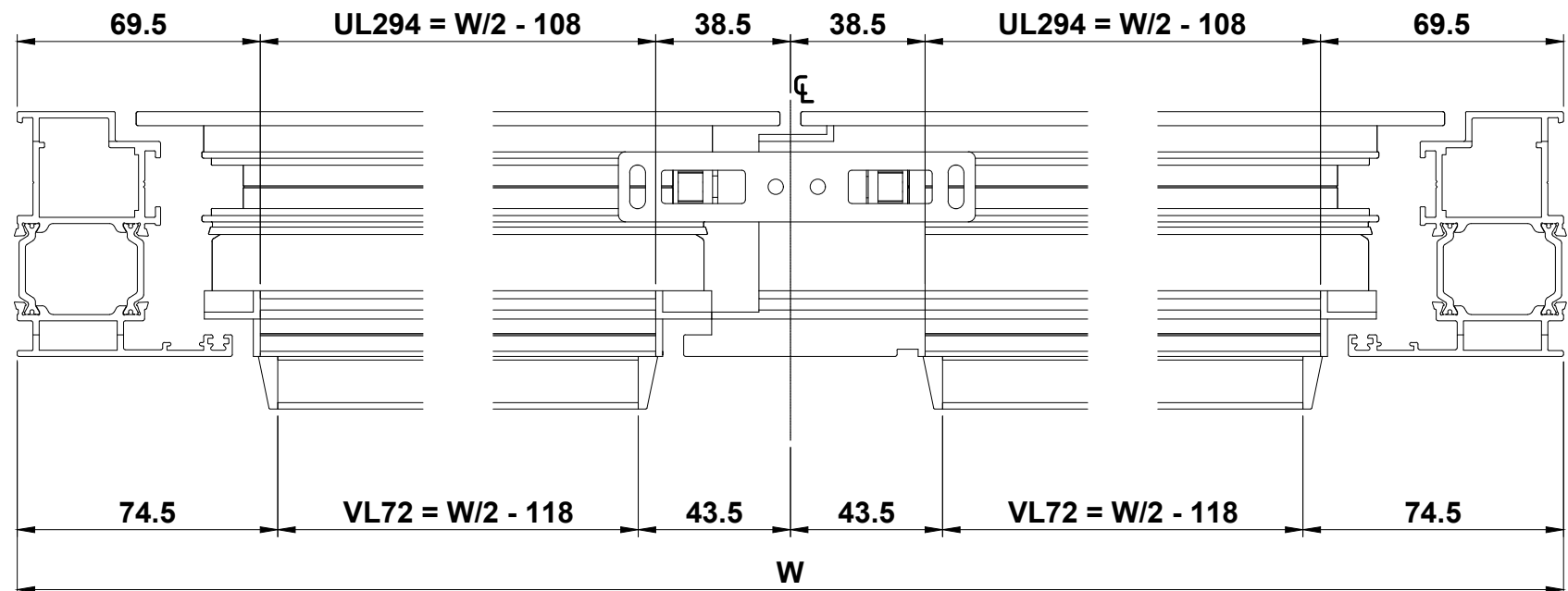
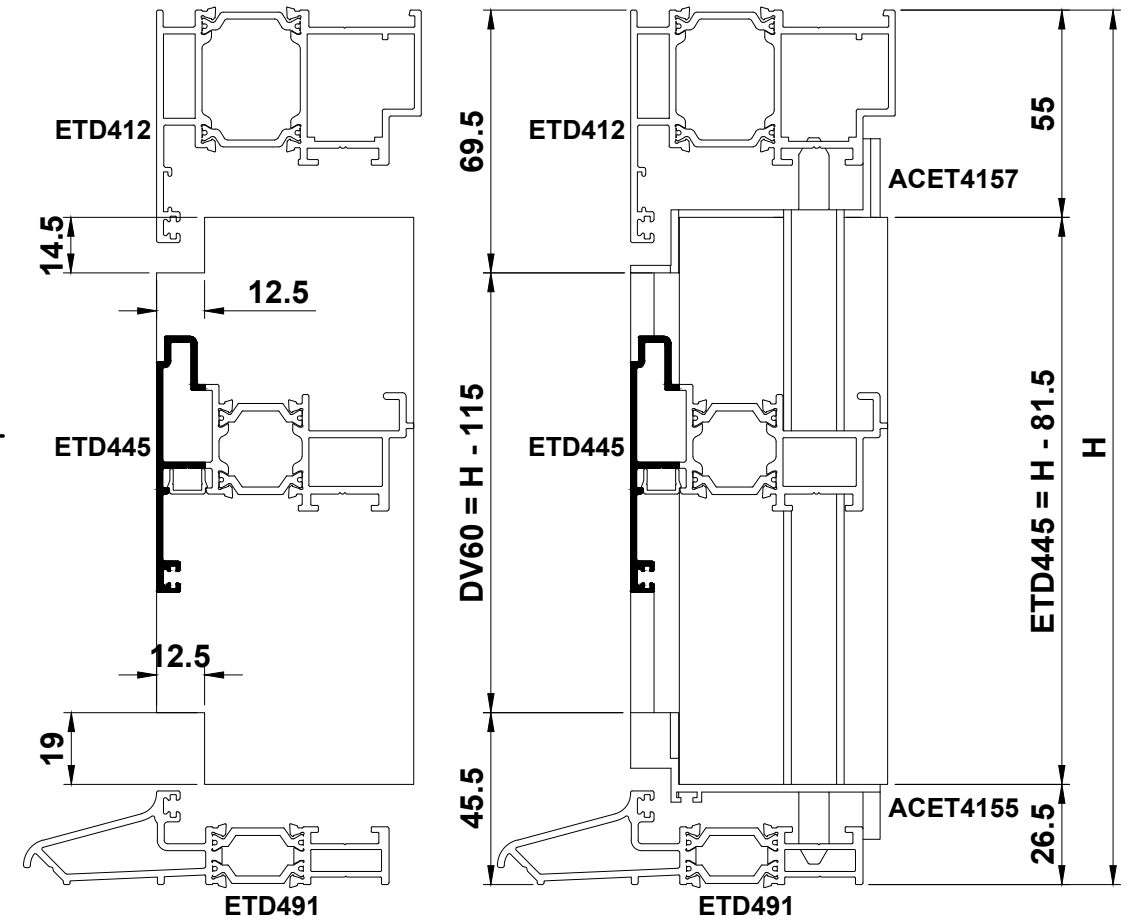
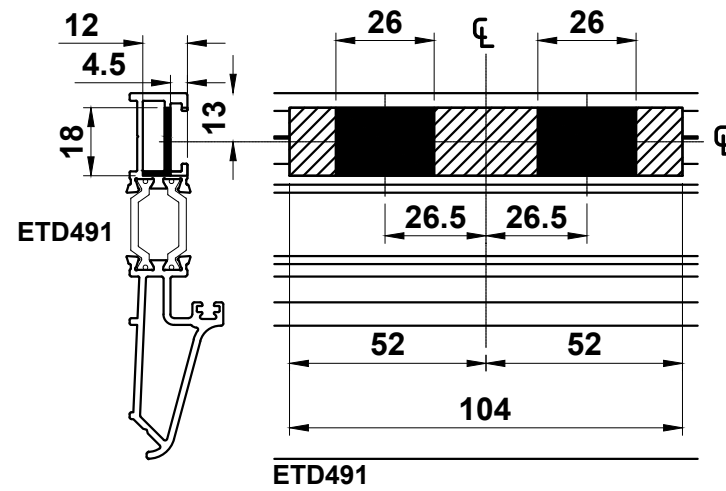


Do Not Scale From This Drawing

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

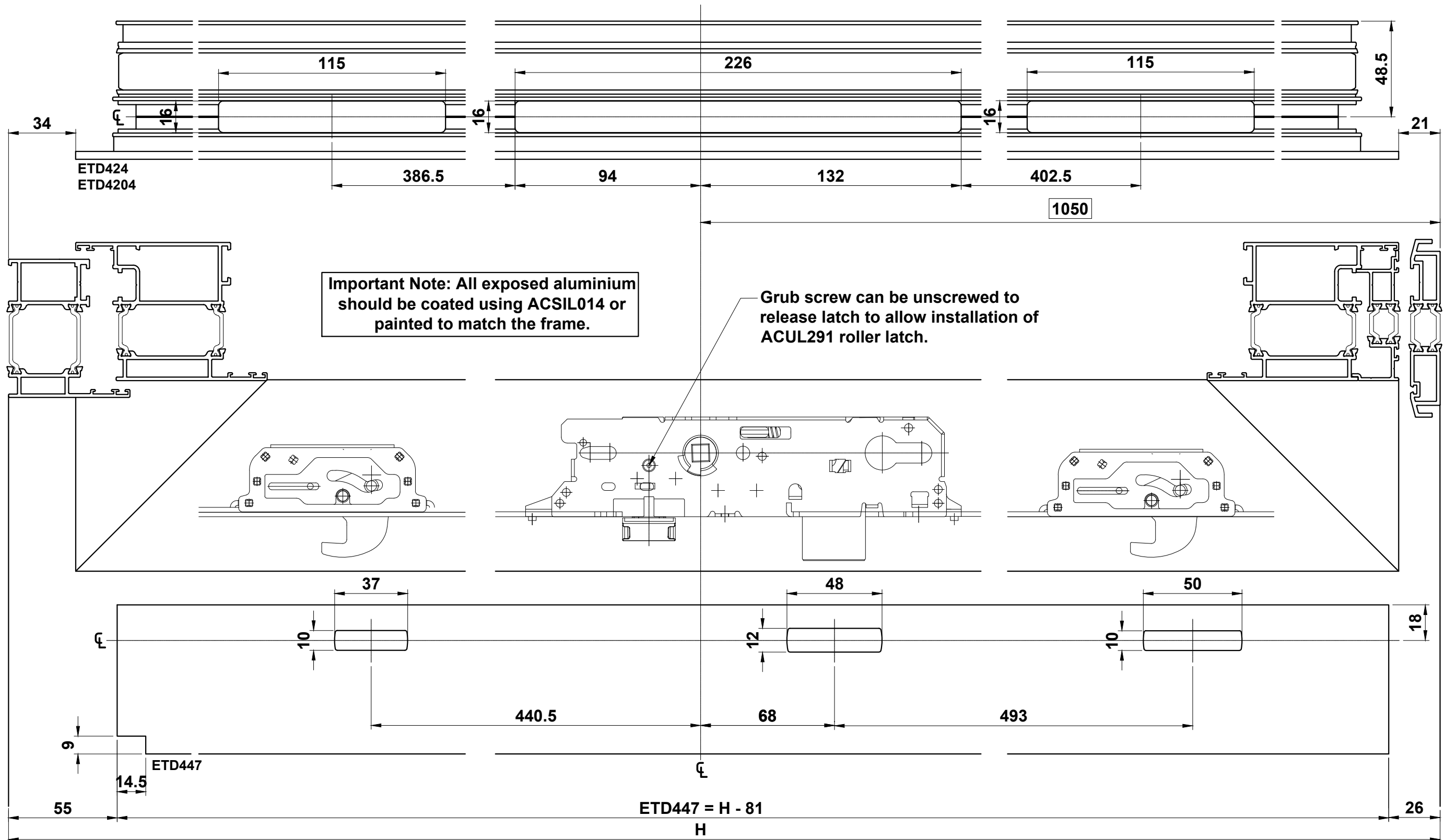


Note: All routing on outer frame require sealant to stop water leakage



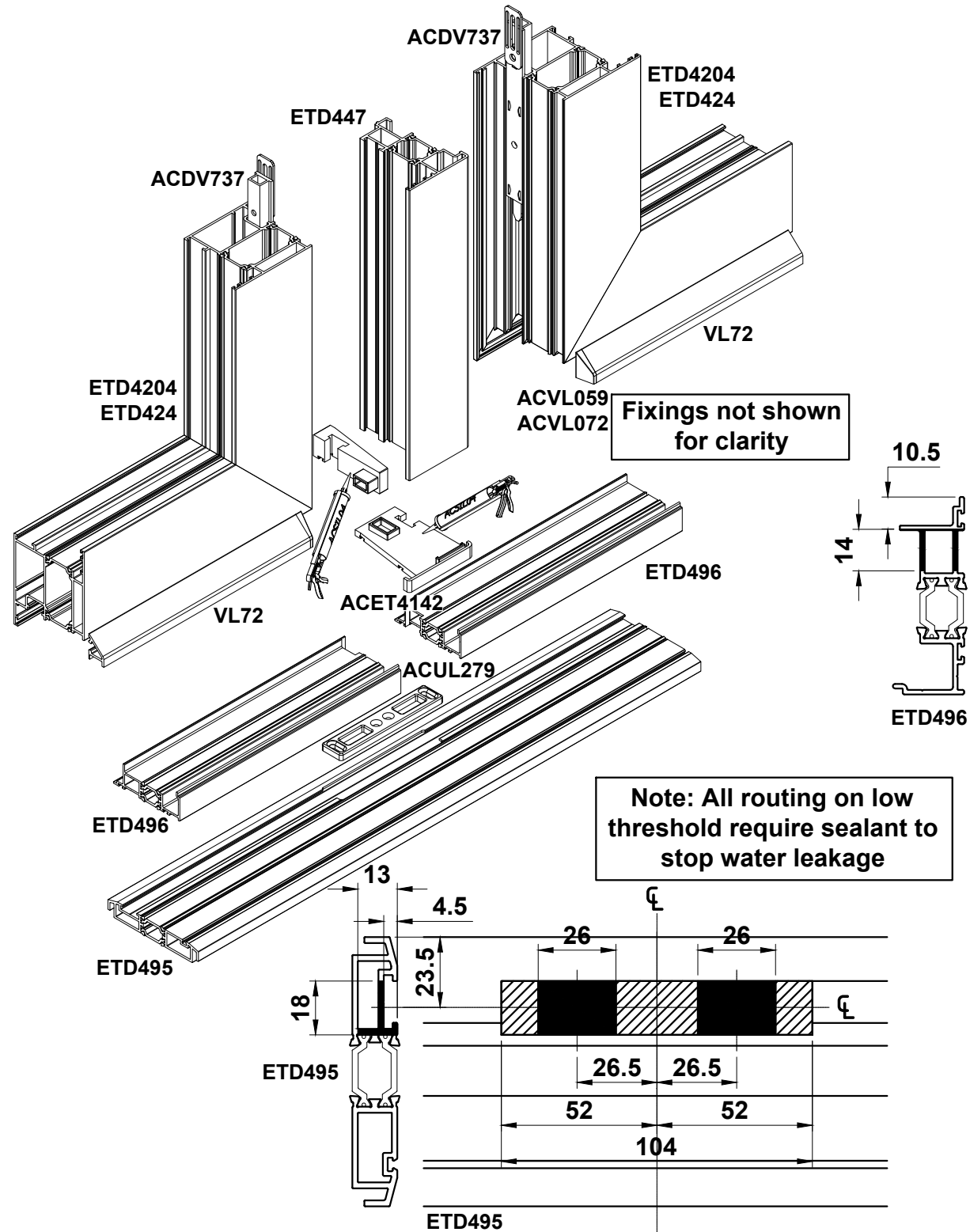
Do Not Scale From This Drawing

**Double Door Lift Lever Lock Preparation for Low Ramp Threshold**

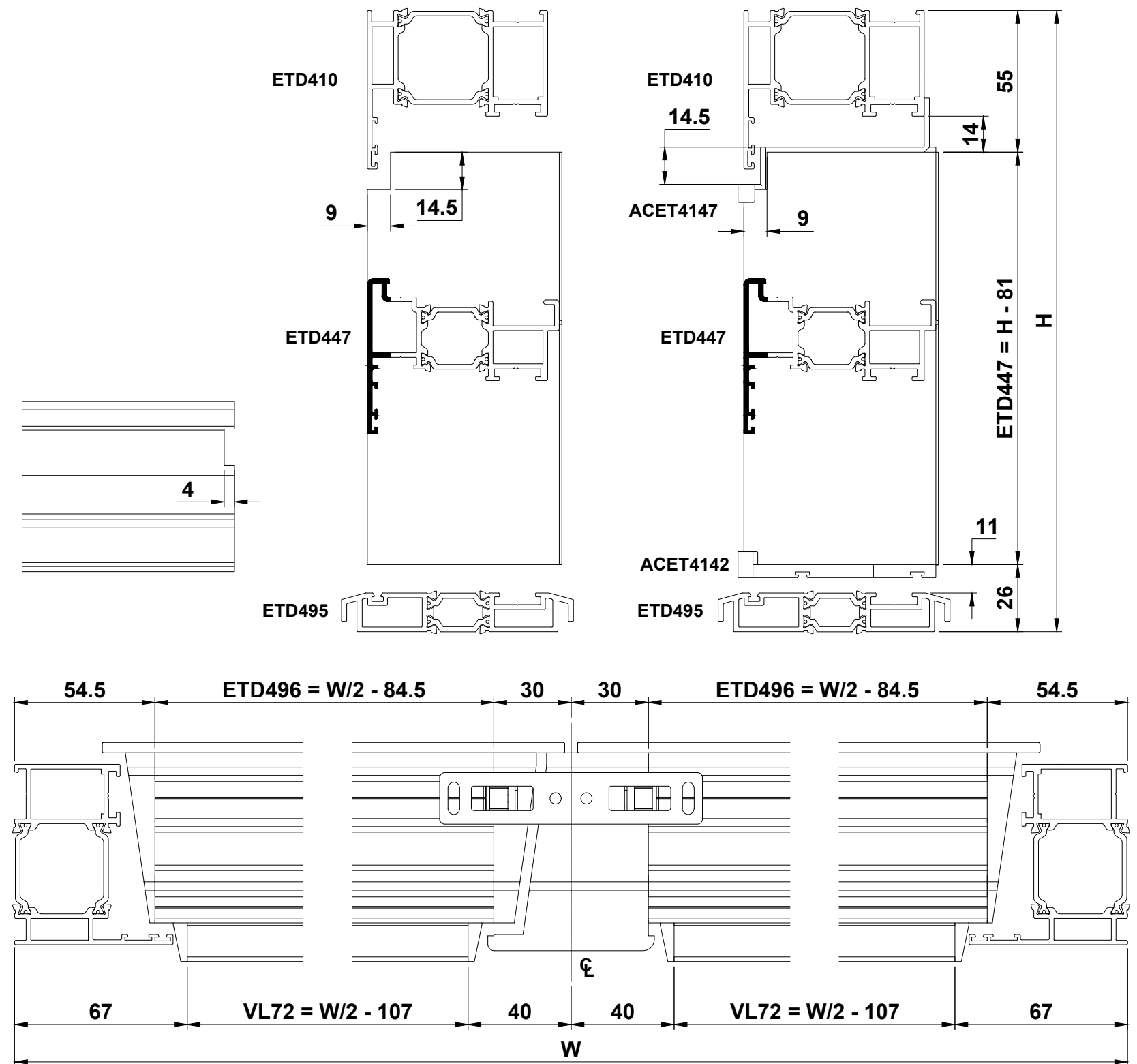
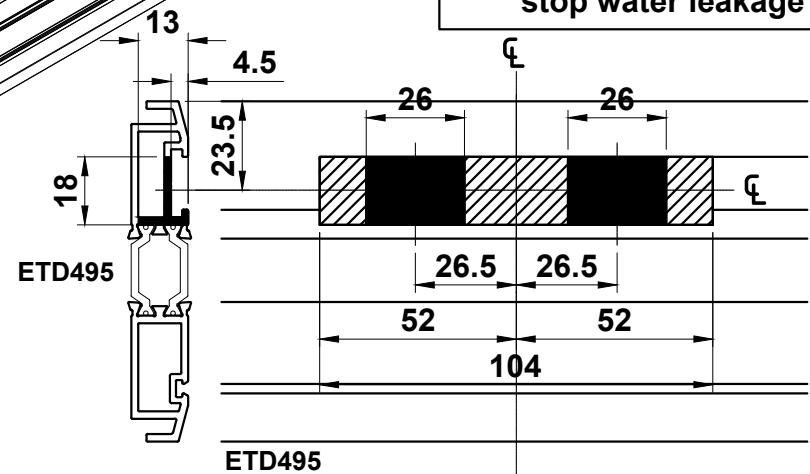


Do Not Scale From This Drawing

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

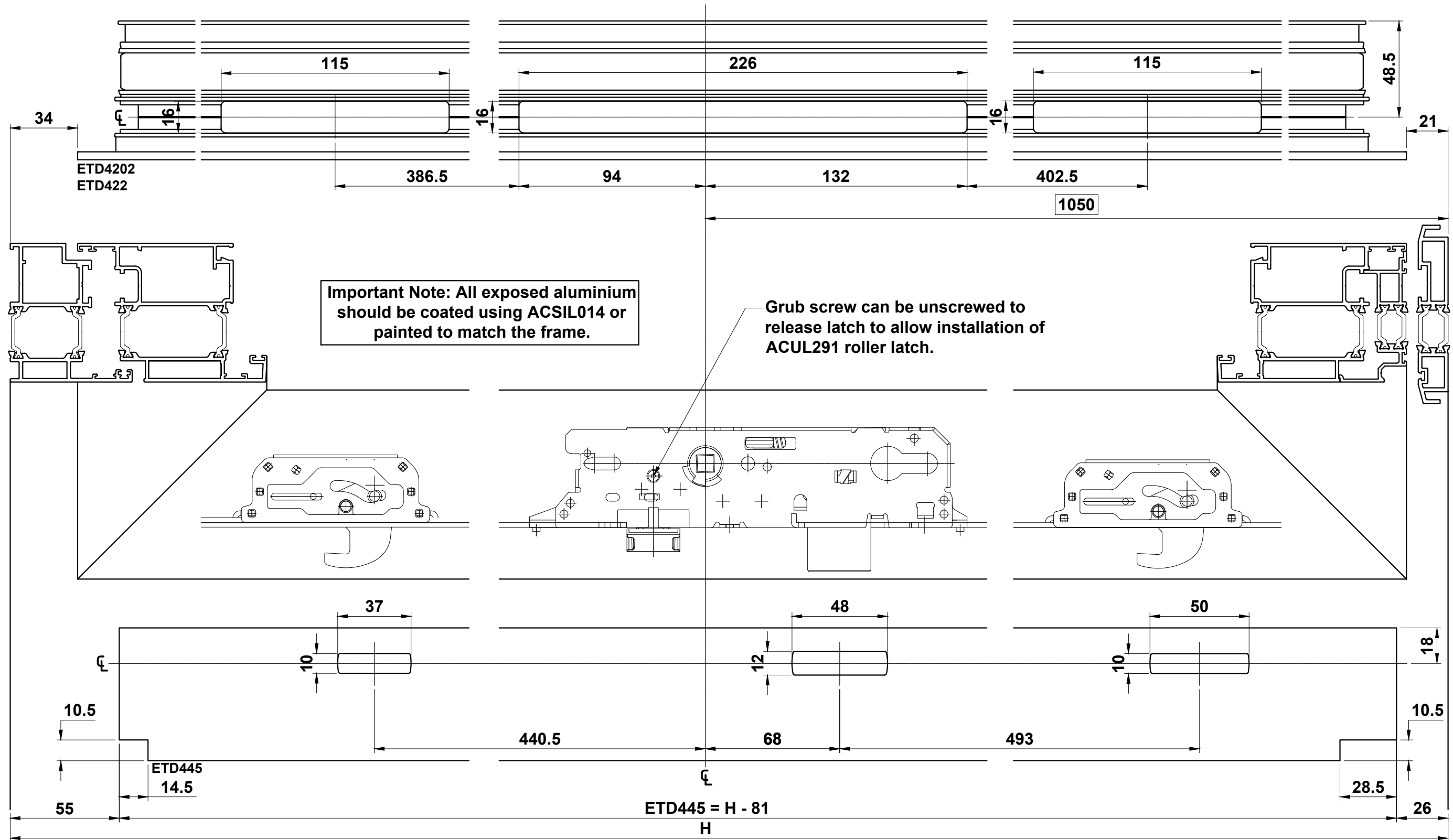


Note: All routing on low threshold require sealant to stop water leakage



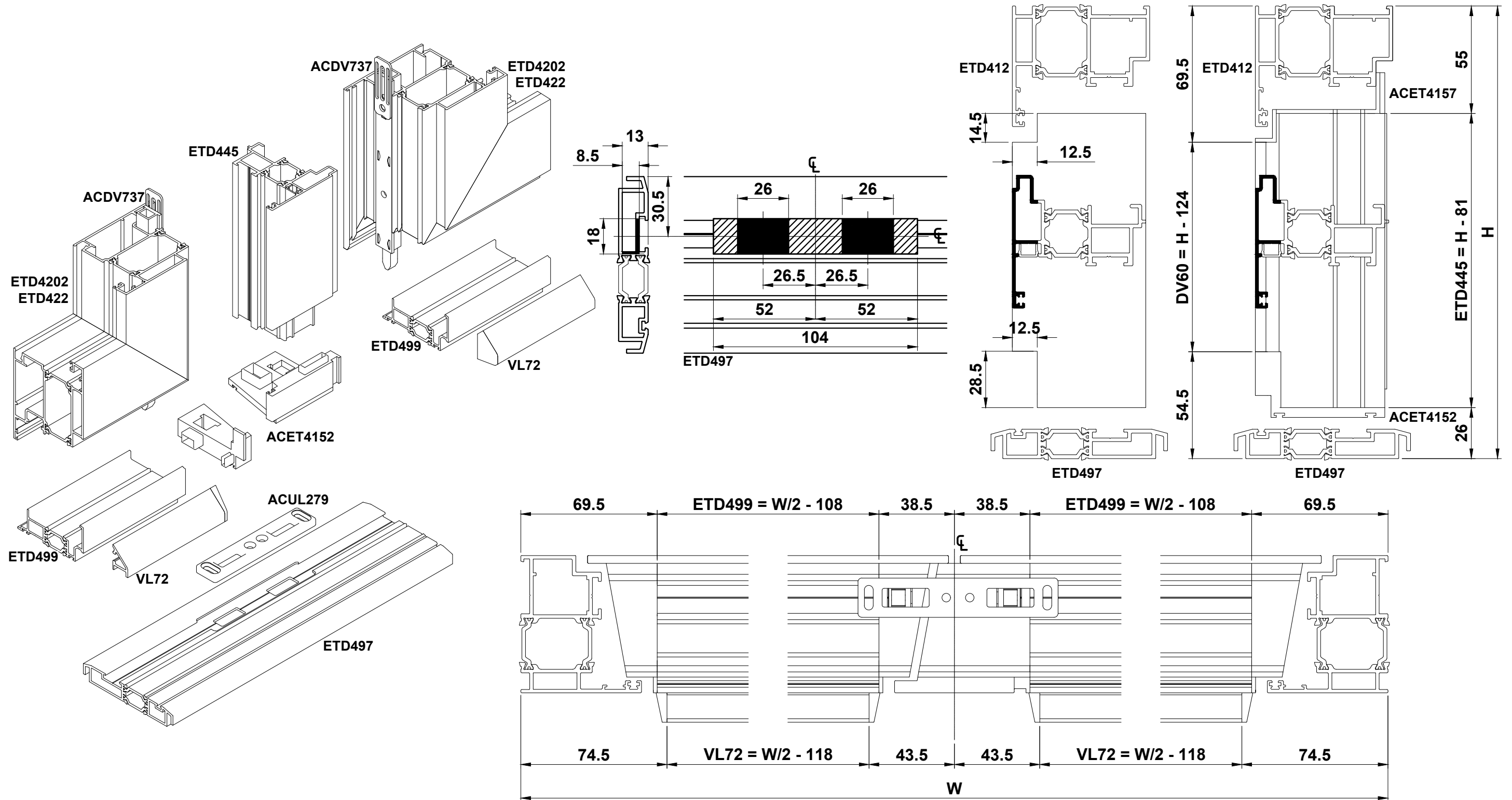
Do Not Scale From This Drawing

Flush Double Door Lift Lever Lock Preparation for Low Ramp Threshold



Do Not Scale From This Drawing

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



Do Not Scale From This Drawing





**Construction Drawings - Open In**

**Double Door Finger Bolt**

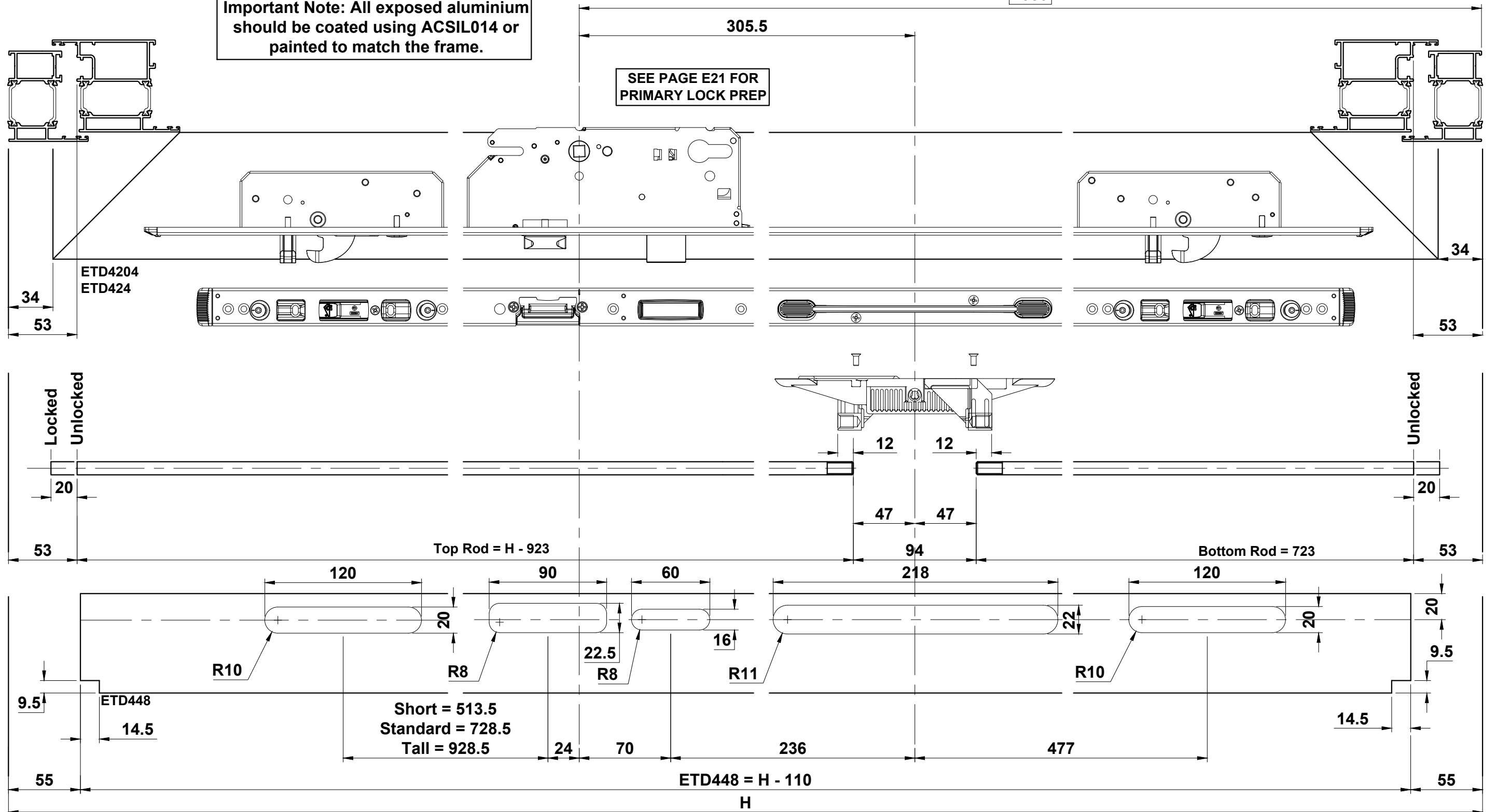
Stepped		Flush	
Full Frame Preparation.....	E38 - E39	Full Frame Preparation.....	E40 - E41
Low Rebate Preparation.....	E42 - E43	Low Rebate Preparation.....	E44 - E45
Low Ramp Preparation.....	E46 - E47	Low Ramp Preparation.....	E48 - E49

Double Door Finger Bolt Lock Preparation for Full Frame

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

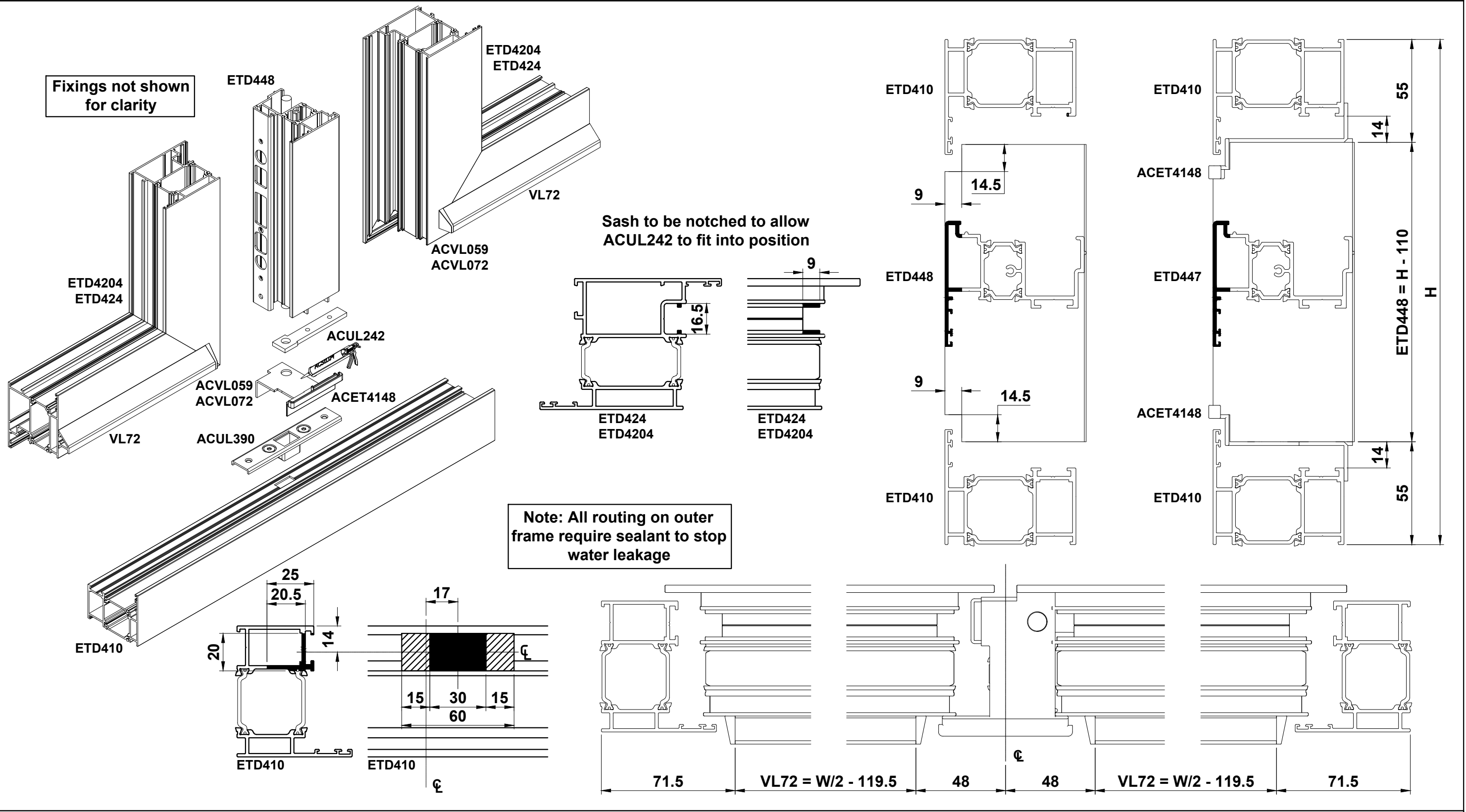
SEE PAGE E21 FOR PRIMARY LOCK PREP

1050



Do Not Scale From This Drawing

**Double Door Finger Bolt Meeting Stile Assembly for Full Frame**

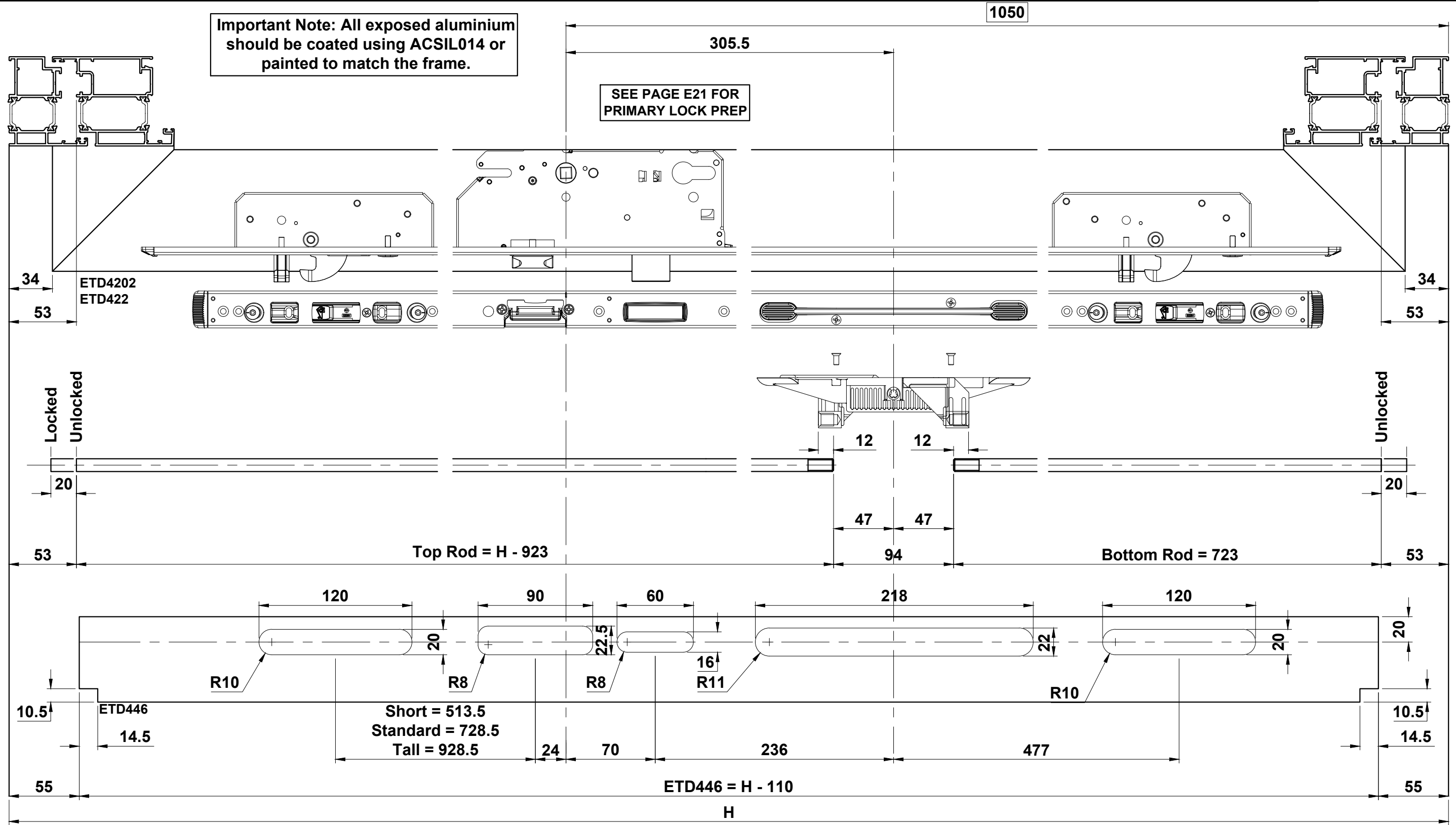


Do Not Scale From This Drawing

Flush Double Door Finger Bolt Lock Preparation for Full Frame

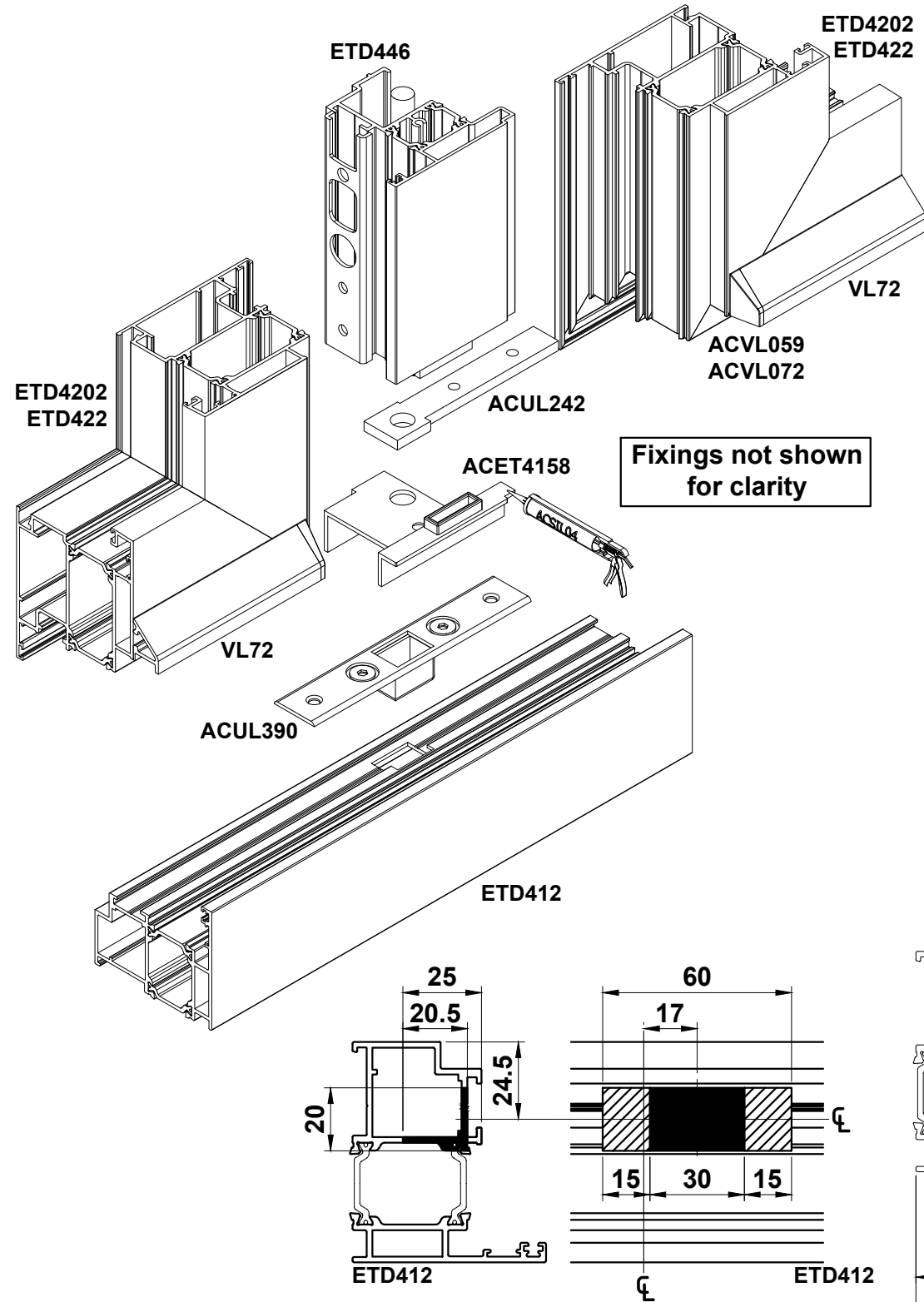
**Important Note:** All exposed aluminium should be coated using ACSIL014 or painted to match the frame.

SEE PAGE E21 FOR PRIMARY LOCK PREP



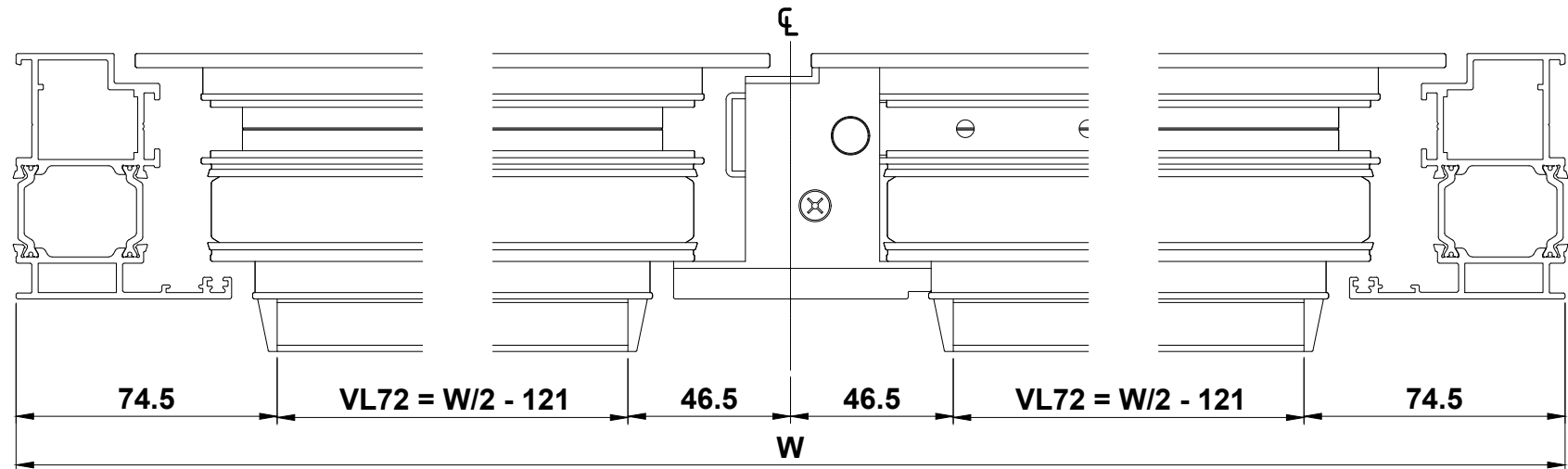
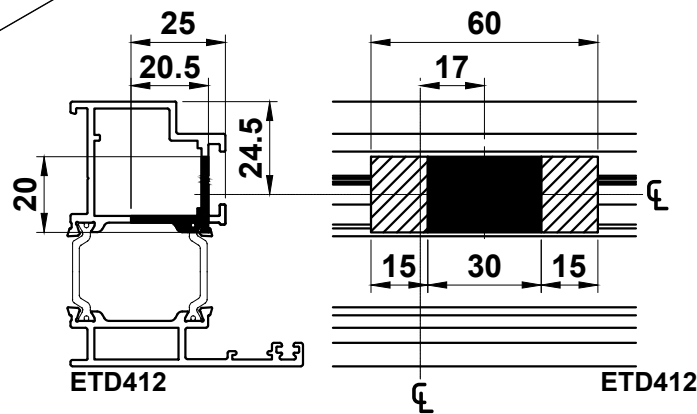
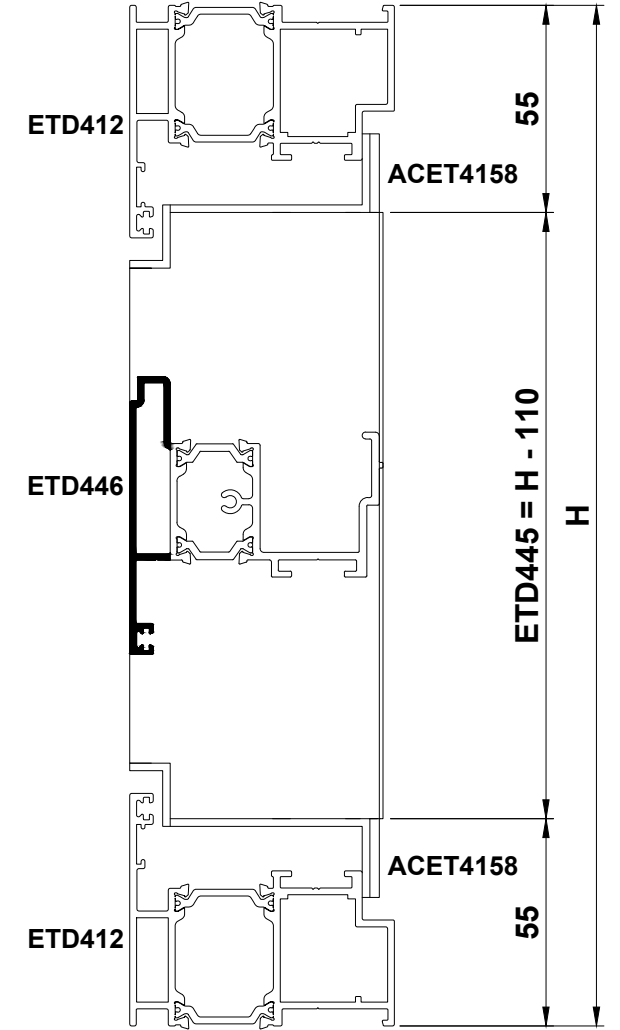
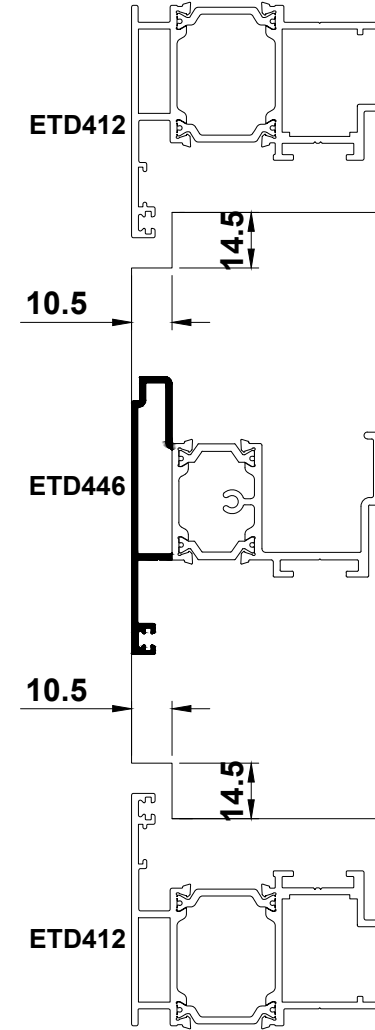
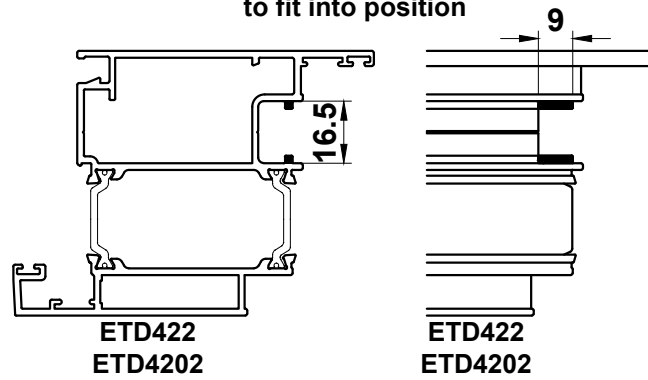
Do Not Scale From This Drawing

**Flush 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



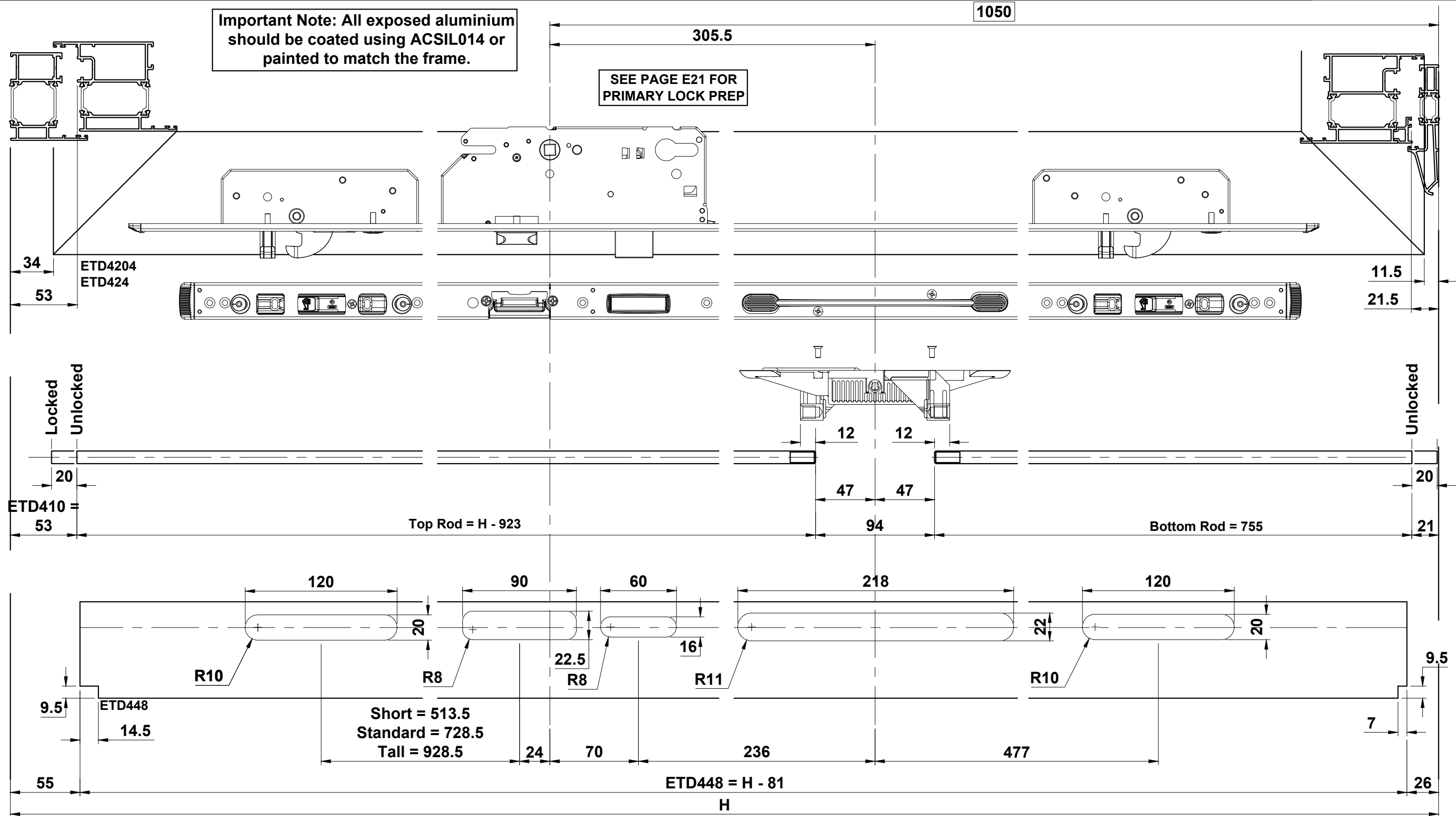
Do Not Scale From This Drawing

**Double Door Finger Bolt Lock Preparation for Low Rebate Threshold**

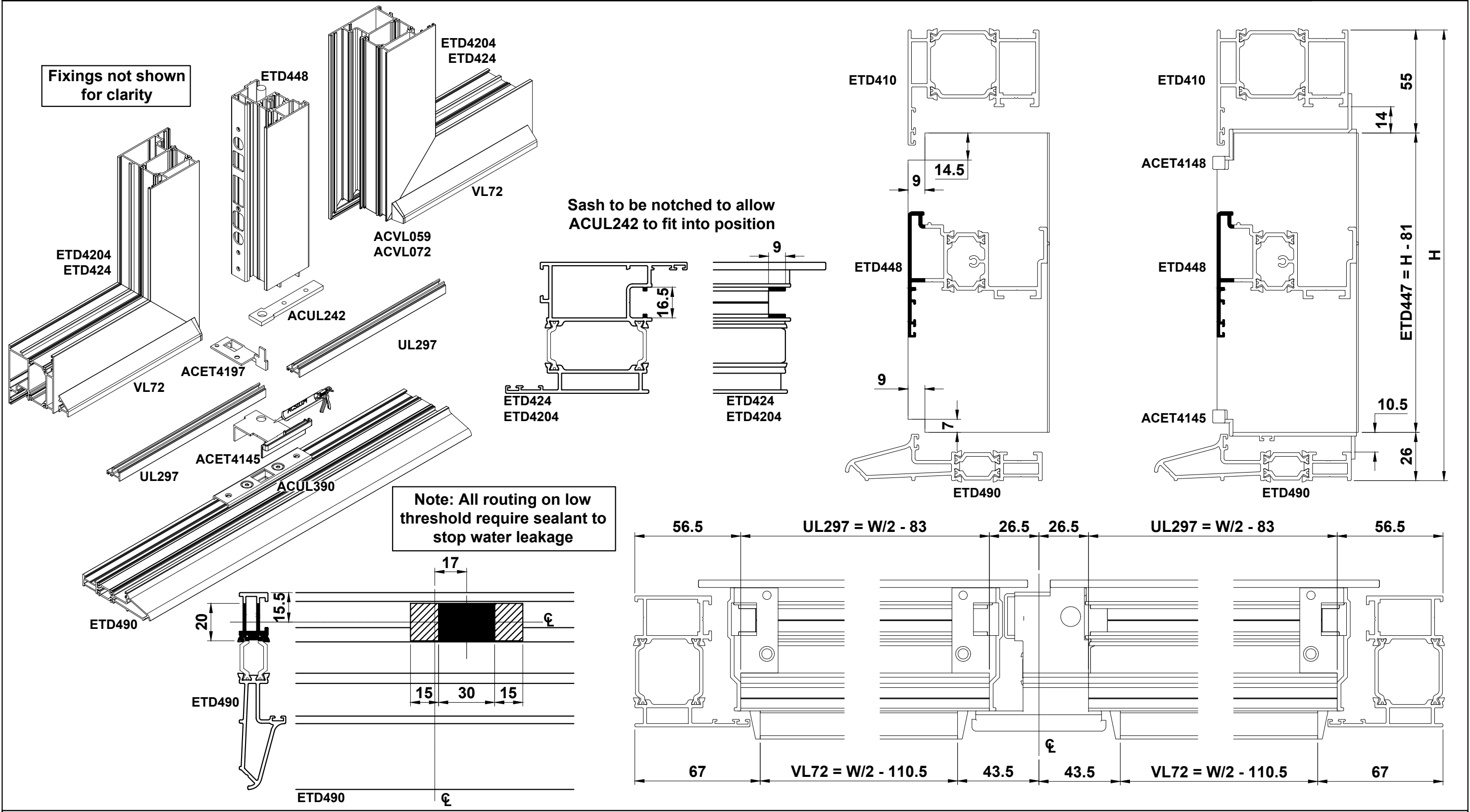
**Important Note: All exposed aluminium should be coated using ACSIL014 or painted to match the frame.**

SEE PAGE E21 FOR PRIMARY LOCK PREP

1050



**Double Door Finger Bolt Meeting Stile Assembly for Low Rebate Threshold**

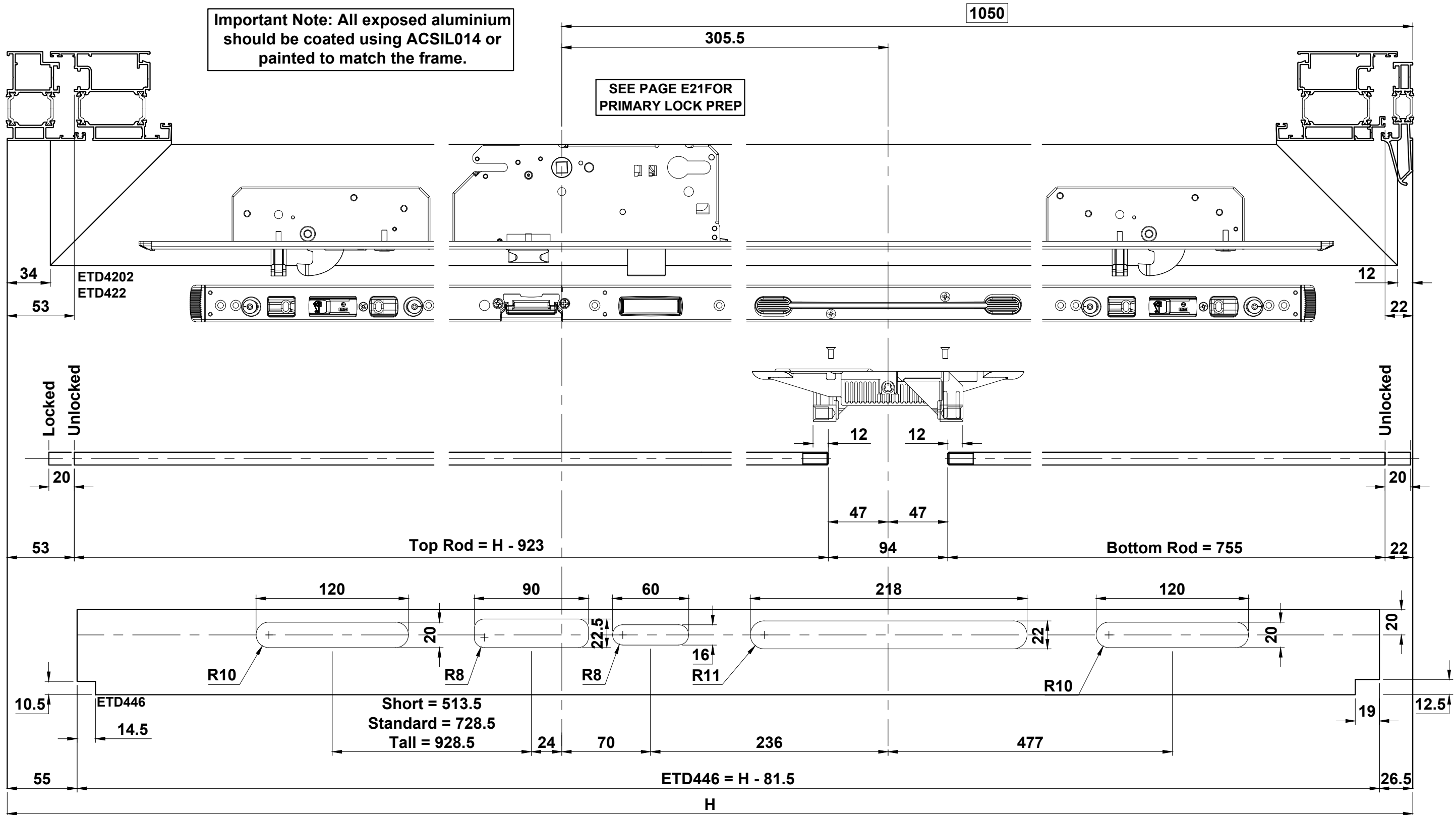


Do Not Scale From This Drawing

Flush Double Door Finger Bolt Lock Preparation for Low Rebate Threshold

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

SEE PAGE E21 FOR PRIMARY LOCK PREP



Do Not Scale From This Drawing

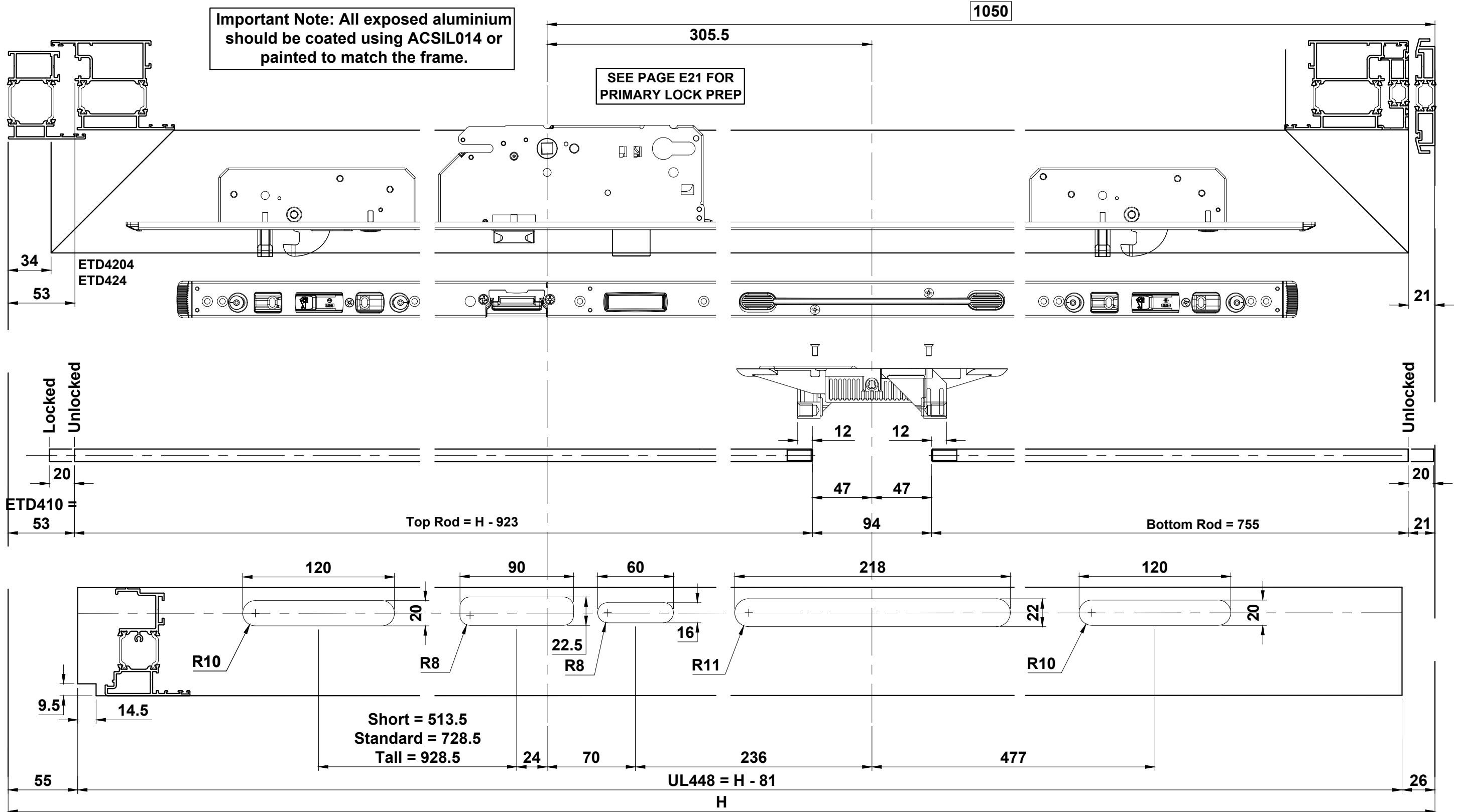




**Double Door Finger Bolt Lock Preparation for Low Ramp Threshold**

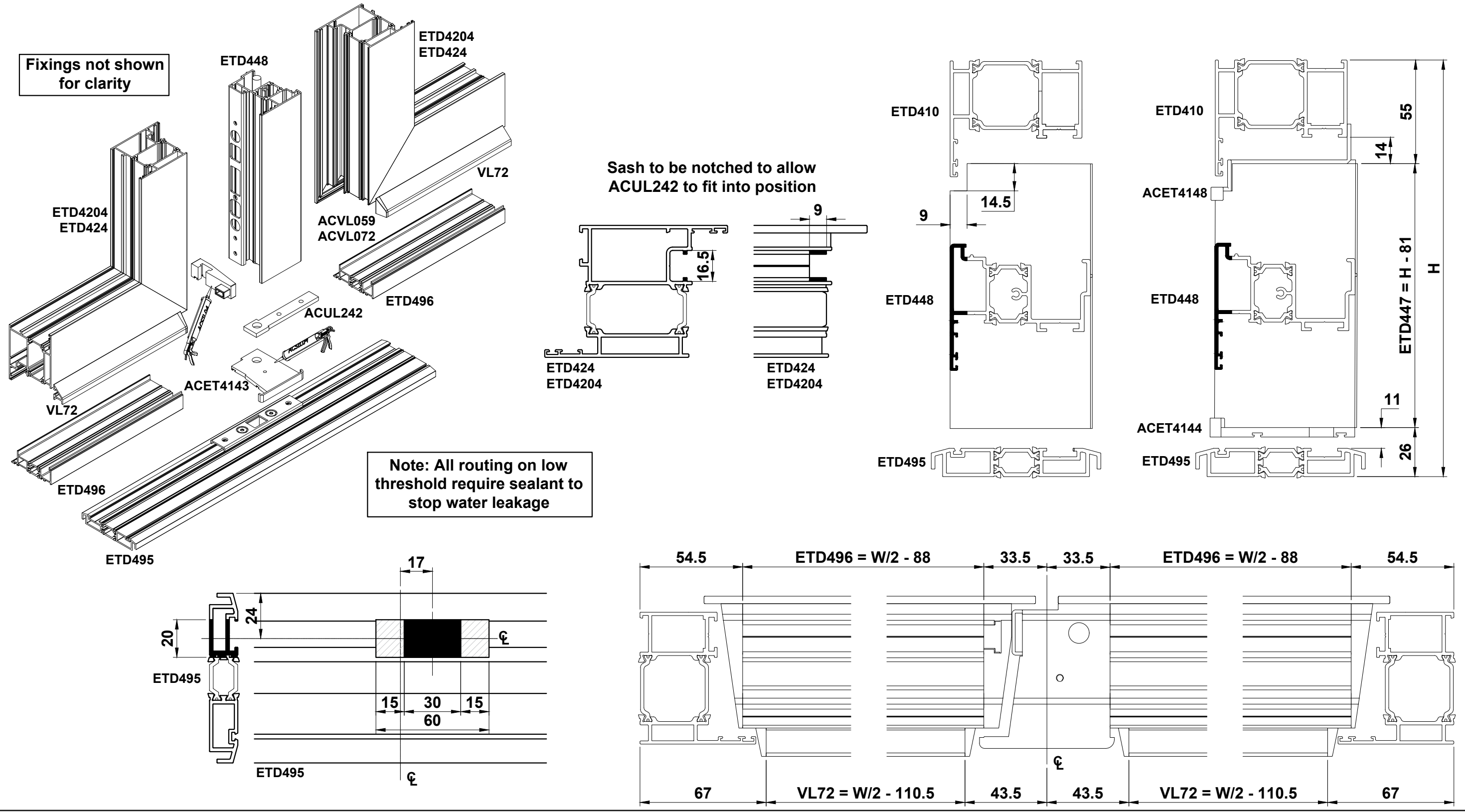
**Important Note: All exposed aluminium should be coated using ACSIL014 or painted to match the frame.**

**SEE PAGE E21 FOR PRIMARY LOCK PREP**



**Do Not Scale From This Drawing**

**Double Door Finger Bolt Meeting Stile Assembly for Low Ramp Threshold**

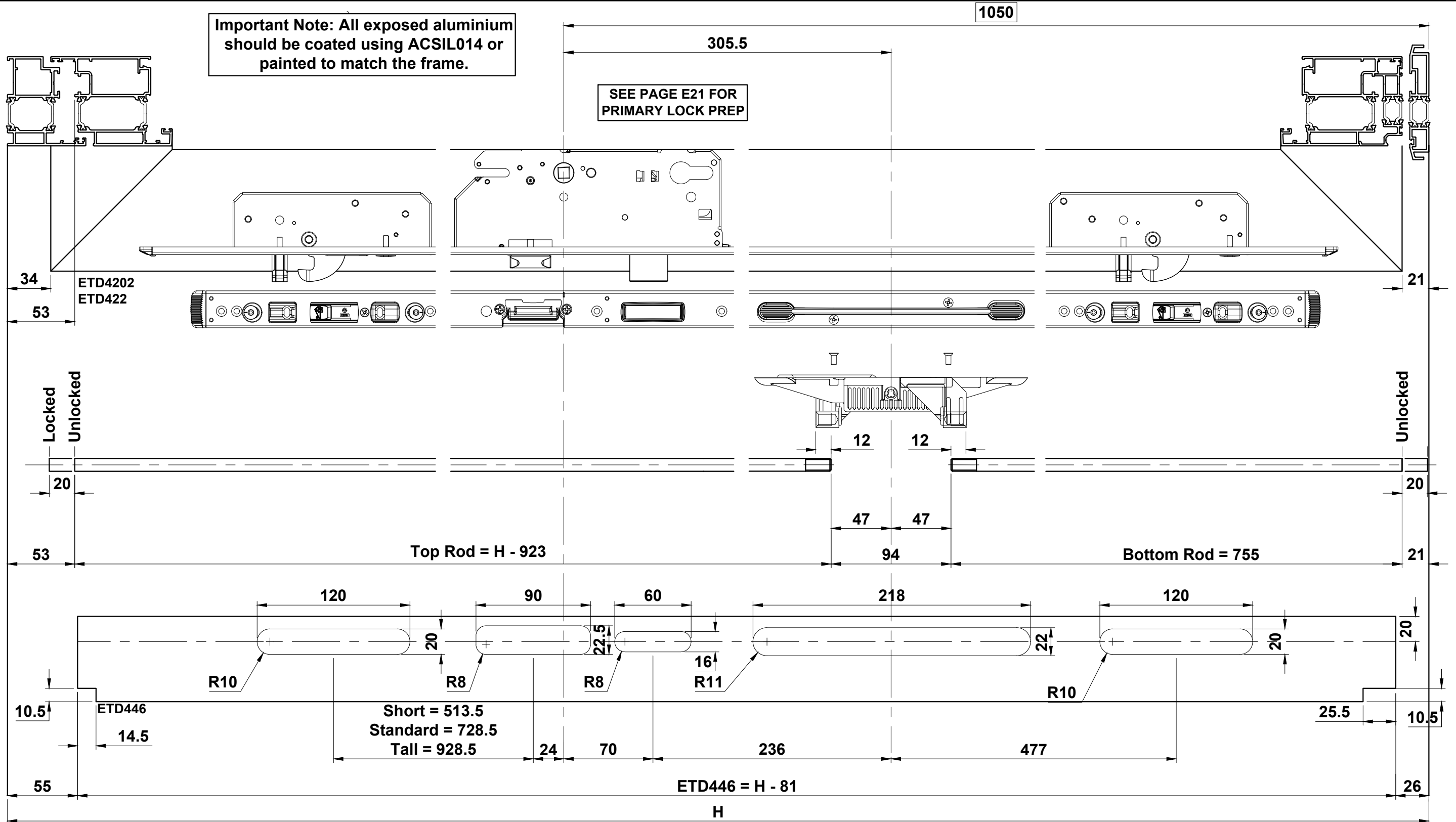


Do Not Scale From This Drawing

**Flush Double Door Finger Bolt Lock Preparation for Low Ramp Threshold**

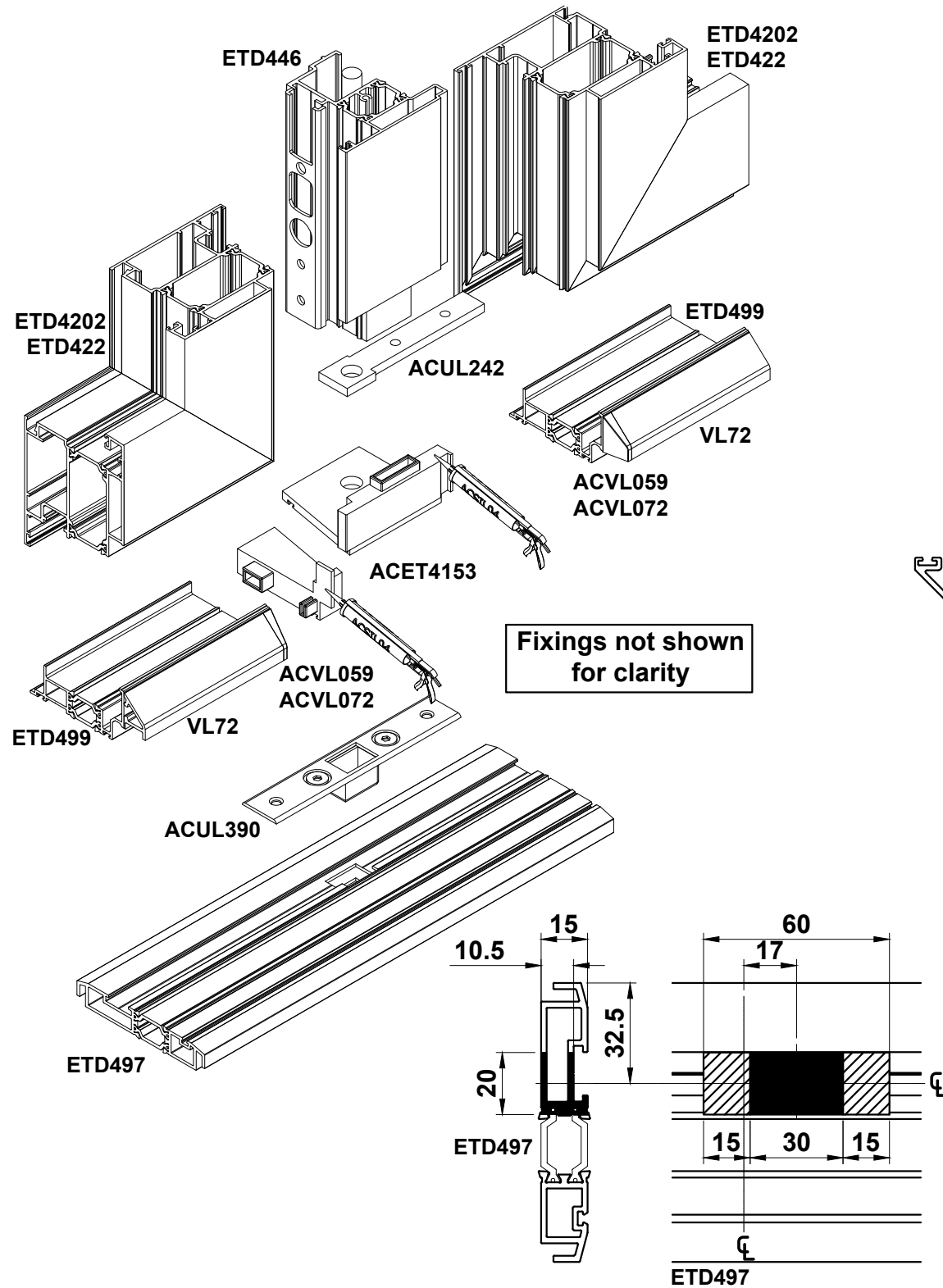
**Important Note:** All exposed aluminium should be coated using ACSIL014 or painted to match the frame.

SEE PAGE E21 FOR PRIMARY LOCK PREP



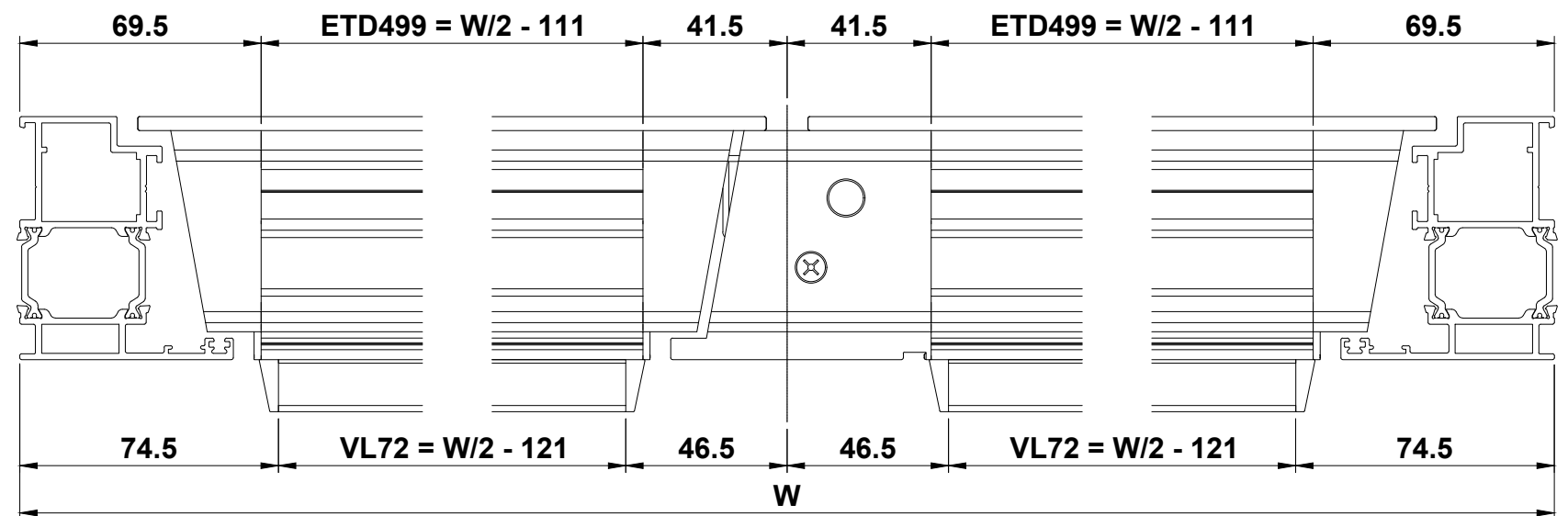
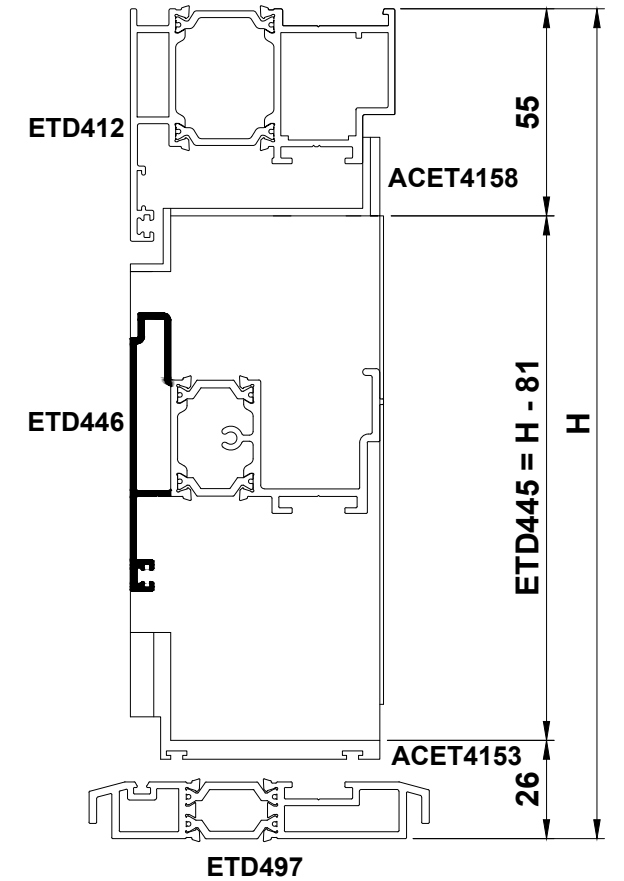
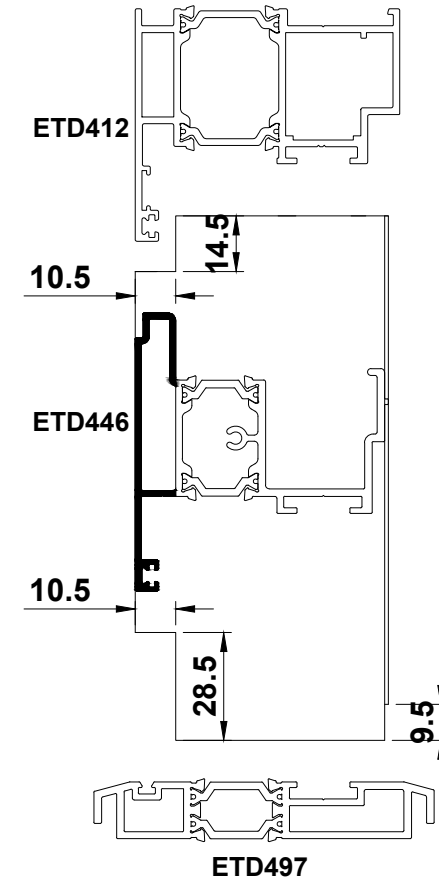
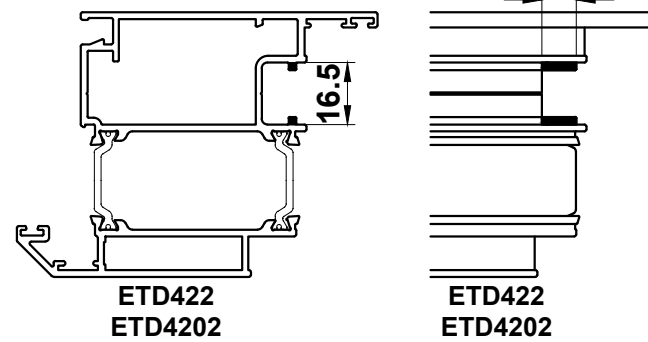
Do Not Scale From This Drawing

**Flush Double Door Finger Bolt Meeting Stile Assembly for Low Ramp Threshold**



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

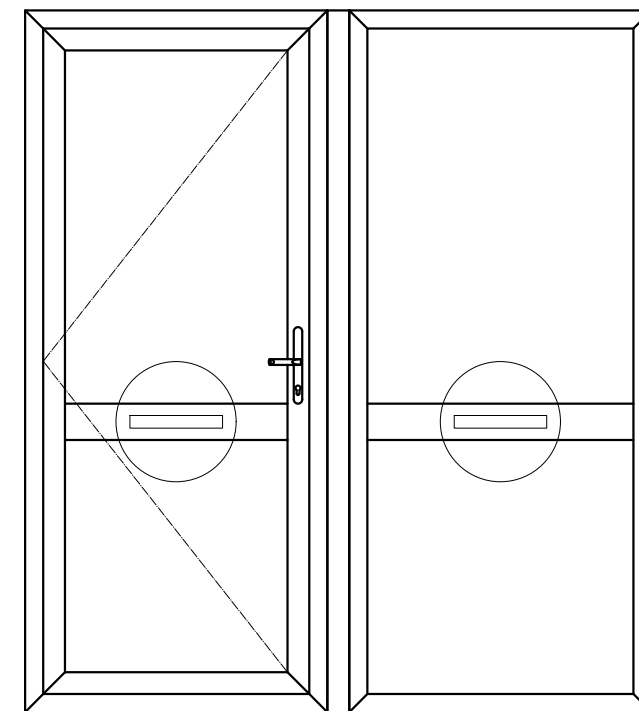
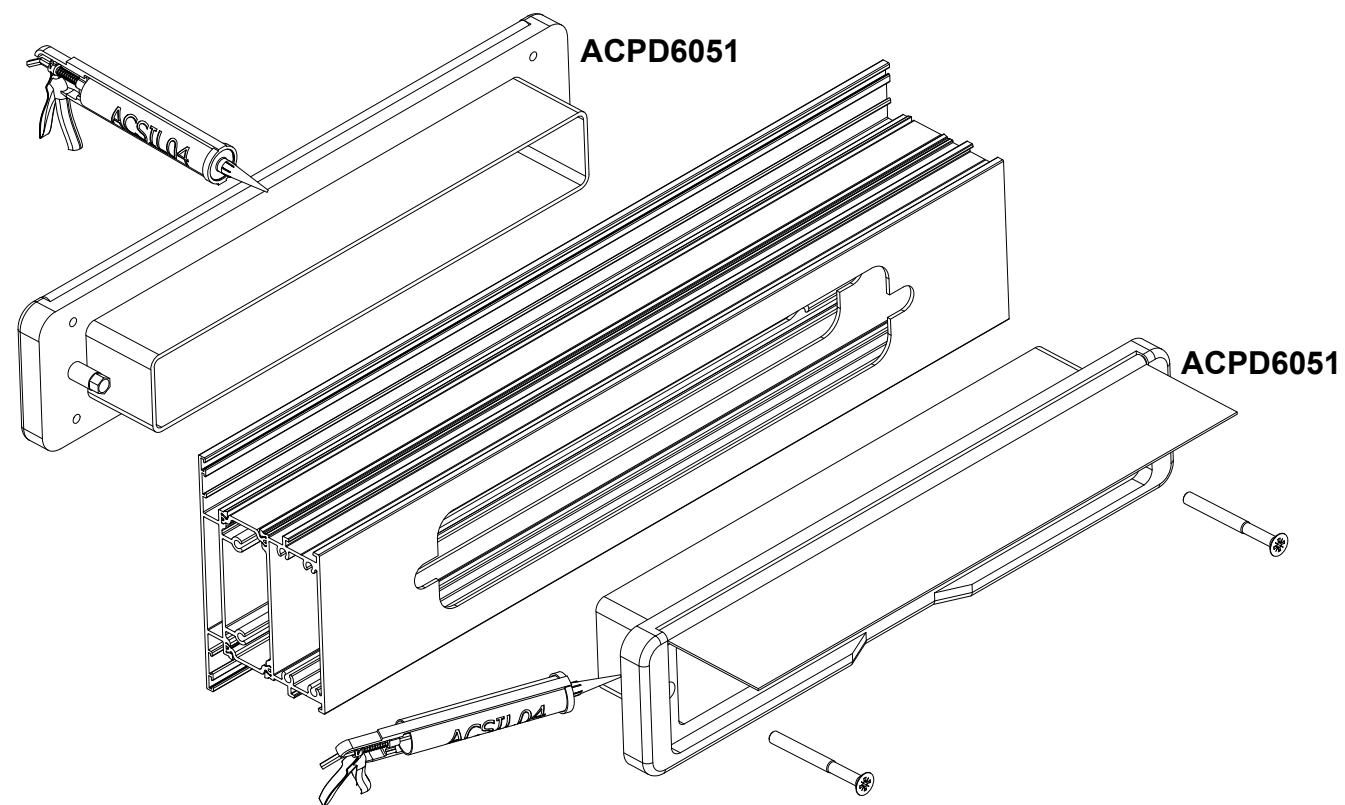
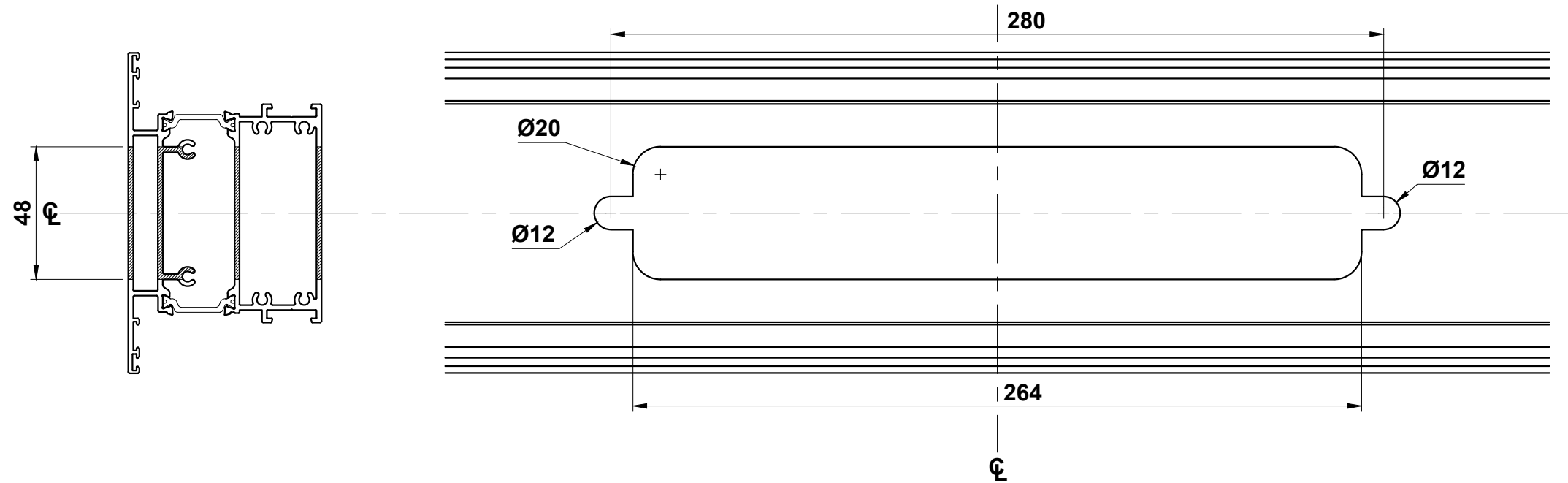


**Construction Drawings - Open In**

**General Continued**

Letter Plate Fitting.....	E51
Glazing Chart.....	E52 - E54
Quick-Glaze Bead.....	E55 - E56
Glass Adjuster.....	E57
Fixing Strap Detail.....	E58
Example Layout.....	E59 - E60

Letter Plate Fitting

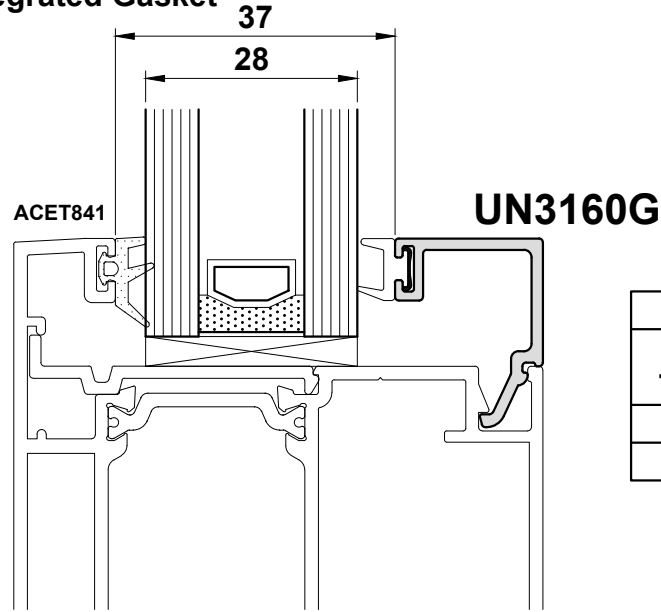


Do Not Scale From This Drawing

**Glazing Chart**

**28mm Glazing**

Integrated Gasket

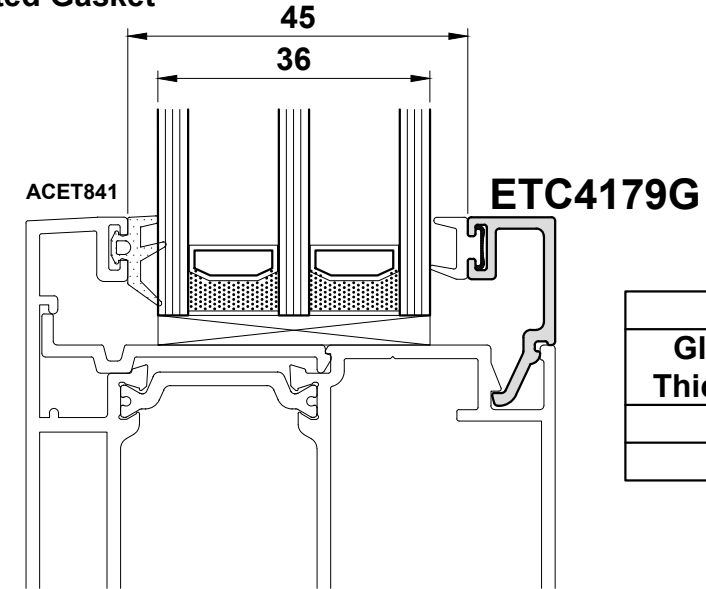


Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
28	ACET841	-
29 (28.8)	ACET842	-

**ETD402 ETD4204  
ETD4202 ETD4301**

**36mm Glazing**

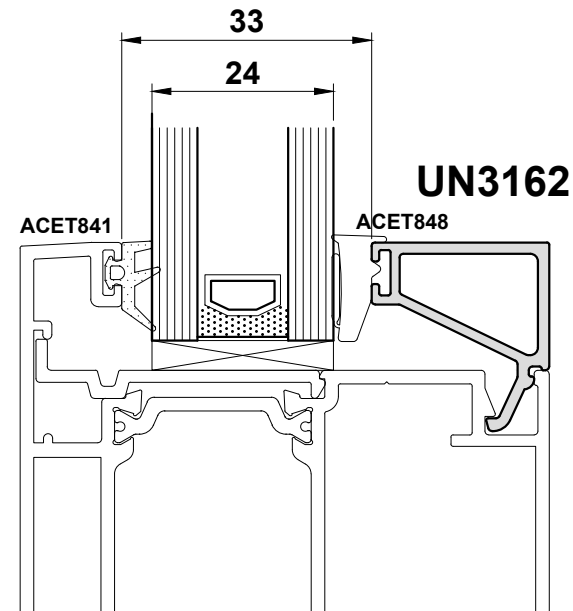
Integrated Gasket



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

**ETD402 ETD4204  
ETD4202 ETD4301**

**24-26mm Glazing**

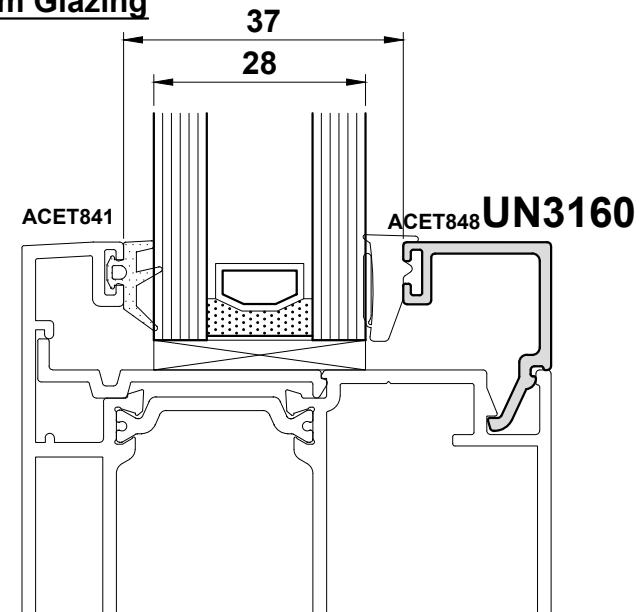


Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
24	ACET841	ACET848
25	ACET842	ACET848
26	ACET843	ACET848

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

**ETD402 ETD4204  
ETD4202 ETD4301**

**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

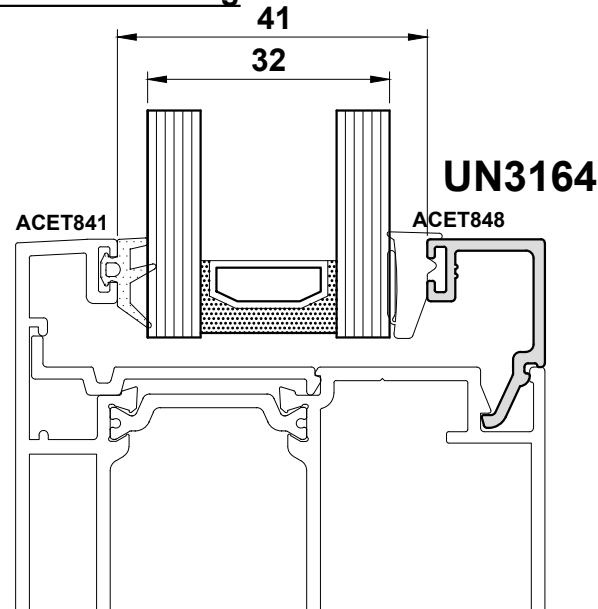
**ETD402 ETD4204  
ETD4202 ETD4301**

Do Not Scale From This Drawing



**Glazing Chart**

**30-32mm Glazing**

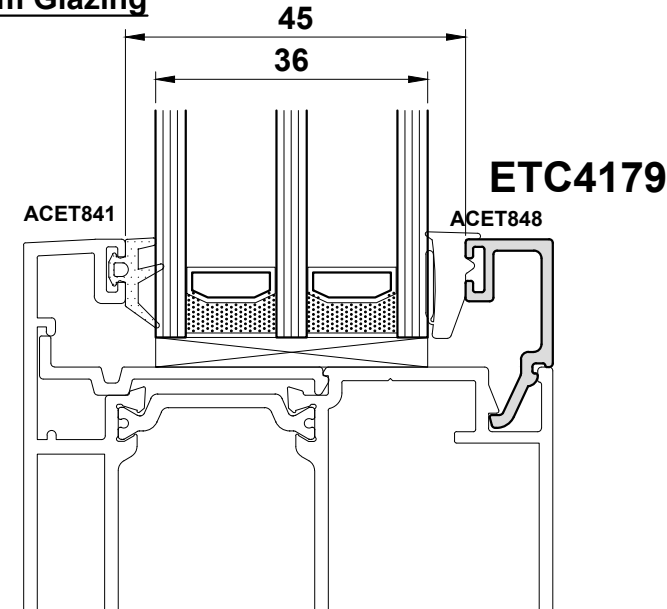


**ETD402 ETD4204  
ETD4202 ETD4301**

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**

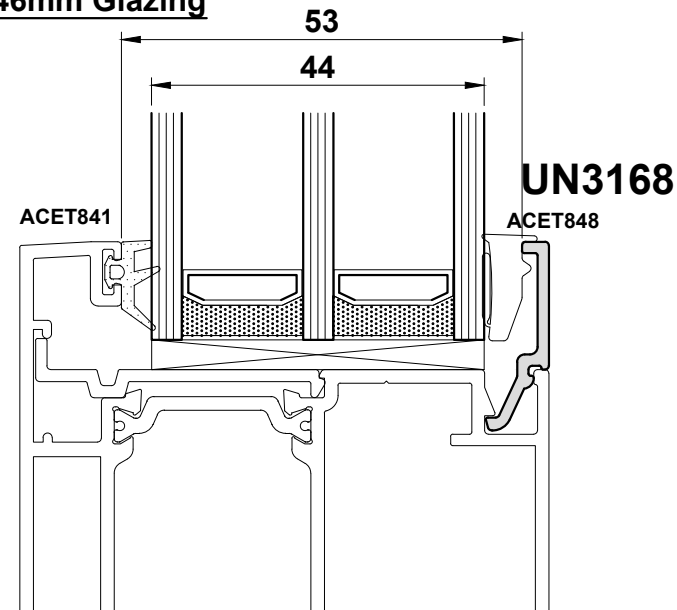


**ETD402 ETD4204  
ETD4202 ETD4301**

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**



**ETD402 ETD4204  
ETD4202 ETD4301**

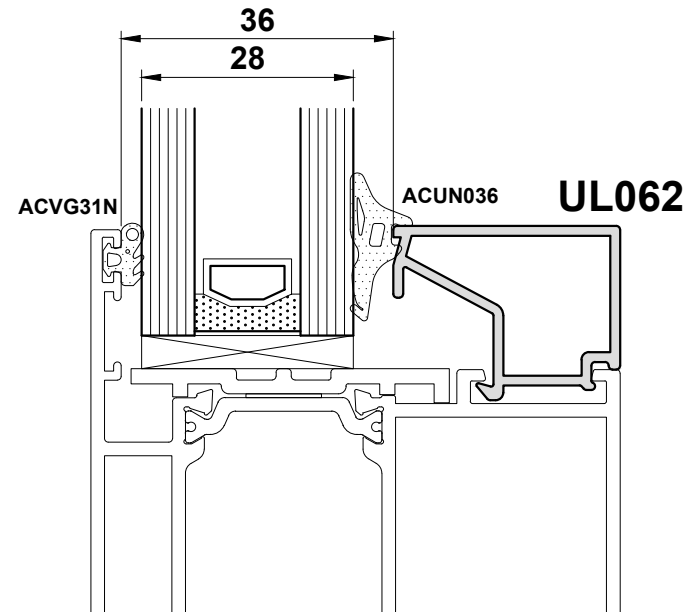
Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
44	ACET841	ACET848
45	ACET842	ACET848
46	ACET843	ACET848

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**

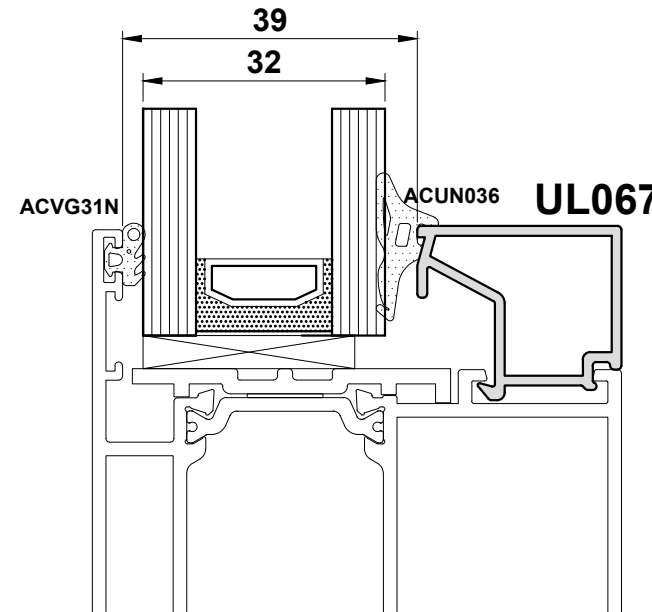


Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
27	ACET841	ACET848
28	ACET842	ACET848
29 (28.8)	ACET843	ACET848

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

ETD404    ETD430  
ETD422    ETD432  
ETD424    ETD442

**30-32mm Glazing**

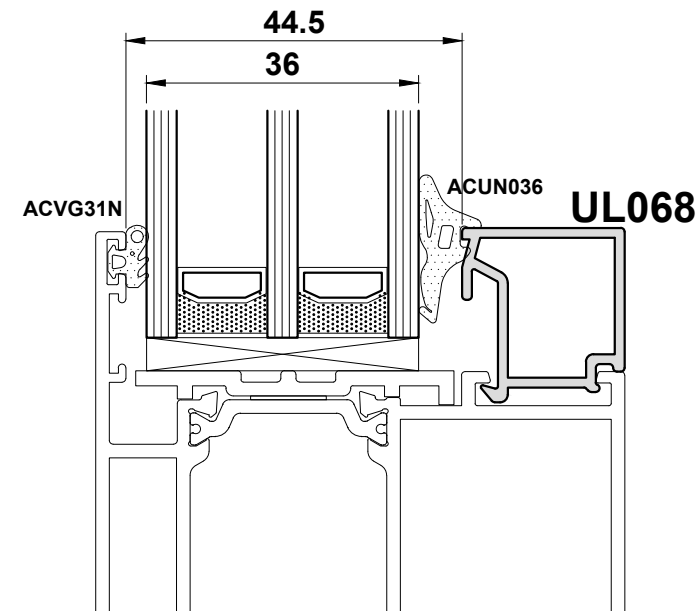


Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
30	ACET841	ACET848
31	ACET842	ACET848
32	ACET843	ACET848

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

ETD404    ETD430  
ETD422    ETD432  
ETD424    ETD442

**36mm Glazing**

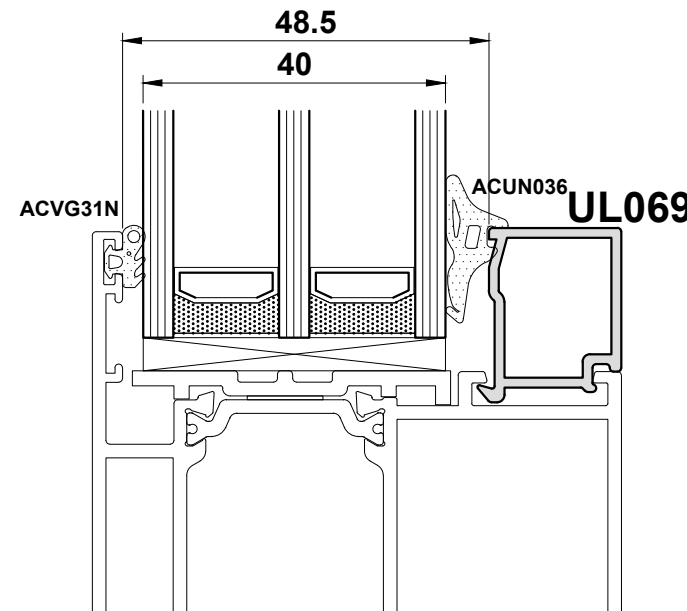


Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
35	ACET841	ACET848
36	ACET842	ACET848
37	ACET843	ACET848

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

ETD404    ETD430  
ETD422    ETD432  
ETD424    ETD442

**42mm 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	ACVG31N	ACUN036
40	ACVG231	ACUN036
41	ACVG231	ACUN036

ETD404    ETD430  
ETD422    ETD432  
ETD424    ETD442

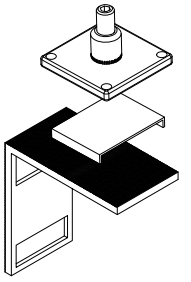
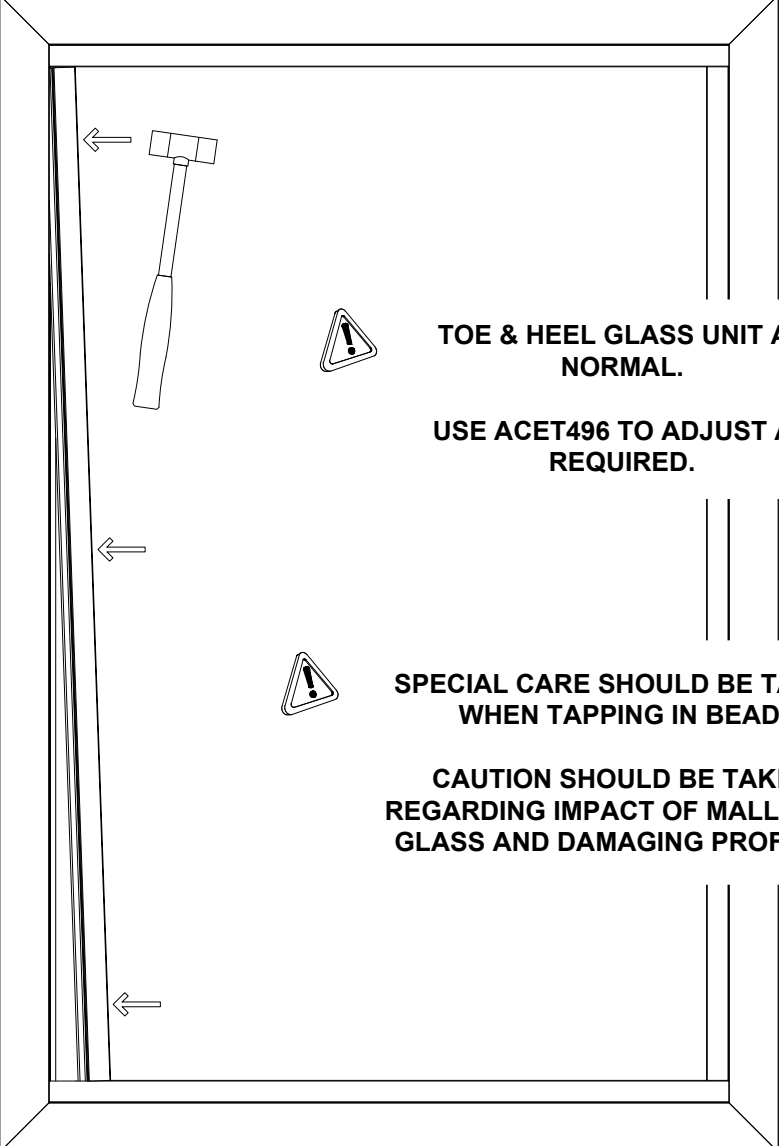
Do Not Scale From This Drawing

**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.**

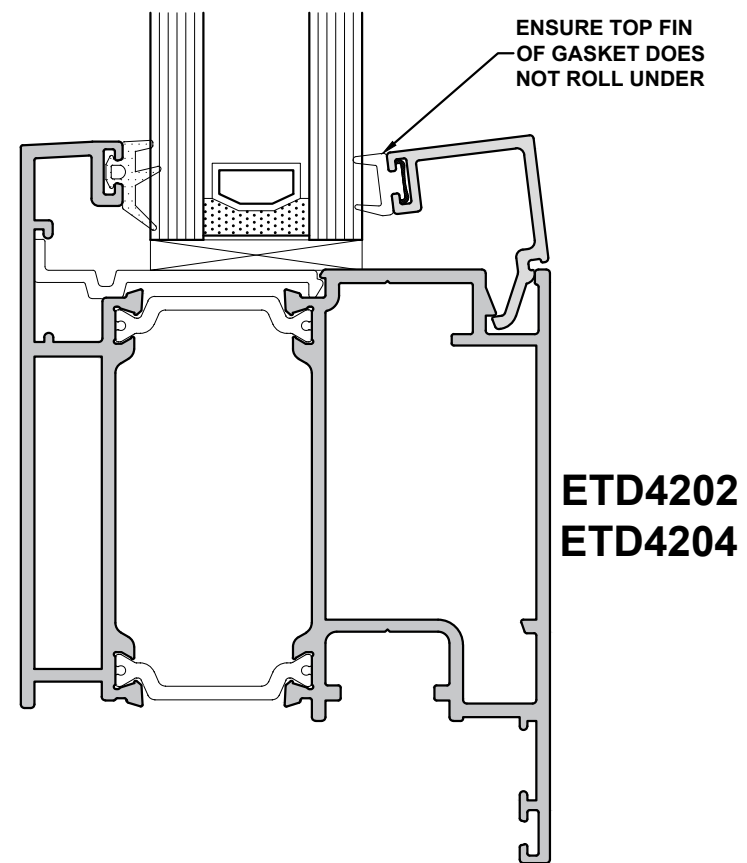
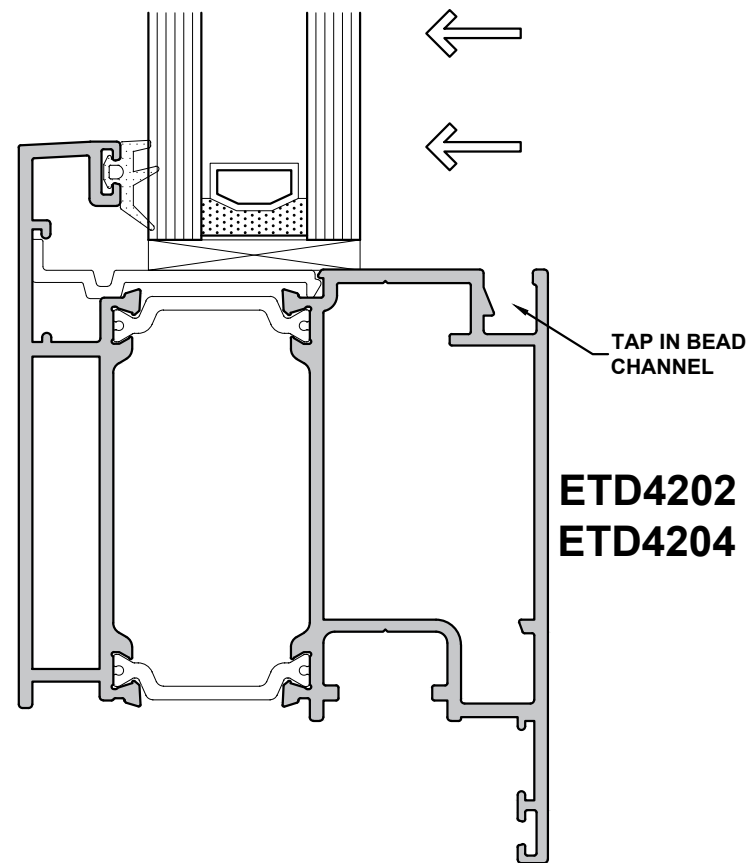



**TOE & HEEL GLASS UNIT AS NORMAL.**

**USE ACET496 TO ADJUST AS REQUIRED.**

**SPECIAL CARE SHOULD BE TAKEN WHEN TAPPING IN BEAD.**

**CAUTION SHOULD BE TAKEN REGARDING IMPACT OF MALLET ON GLASS AND DAMAGING PROFILES.**



Do Not Scale From This Drawing

**Quick-Glaze Bead Removal**

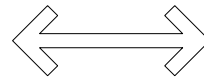
**KEEP INTEGRATED GASKET**

**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

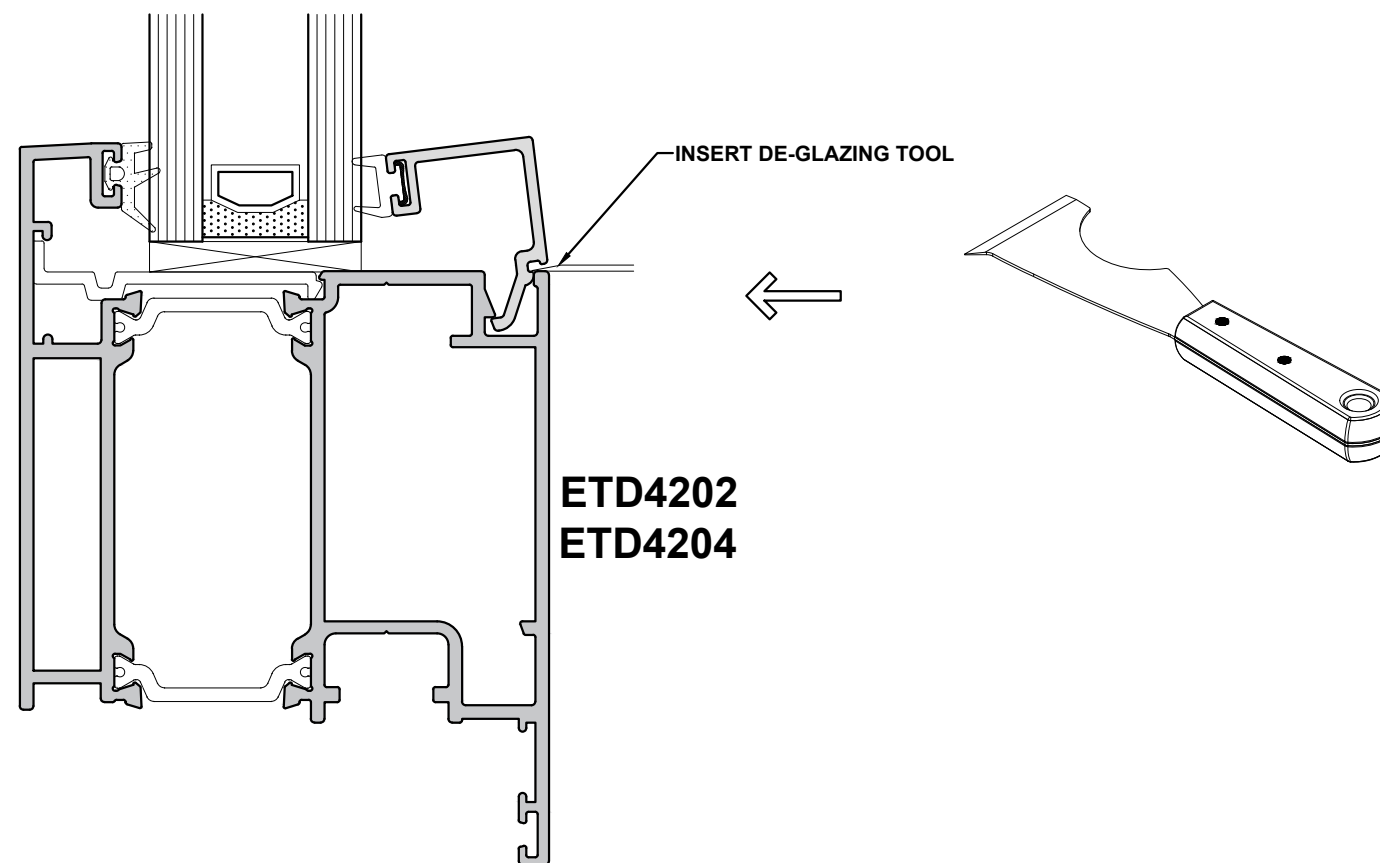
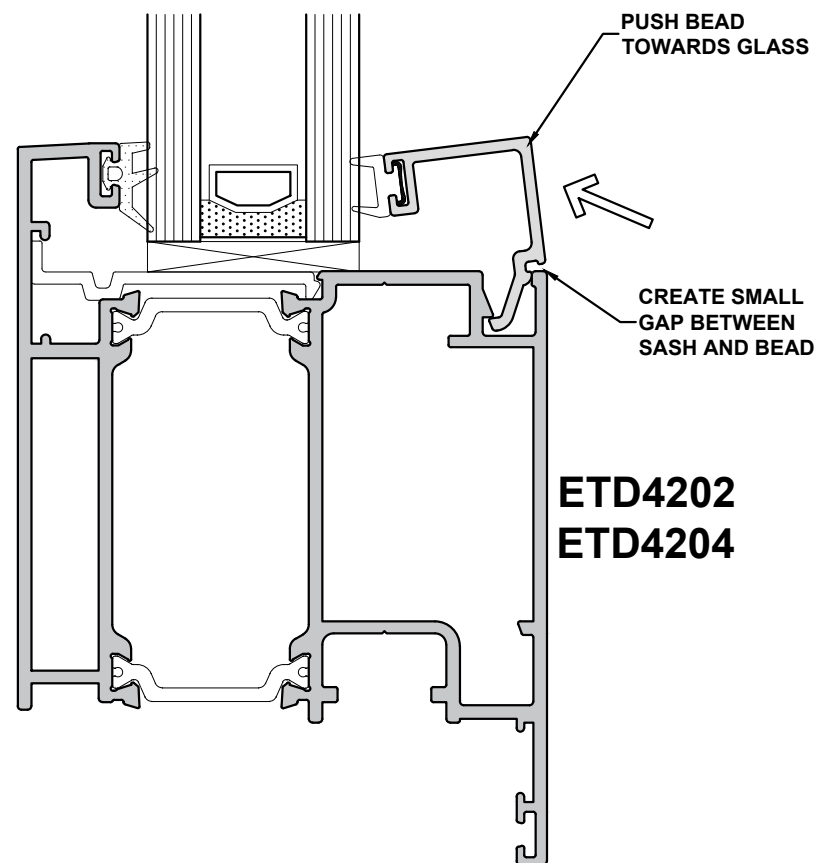


**REPLACE INTEGRATED GASKET**

**QUICK-GLAZE BEAD REMOVAL**

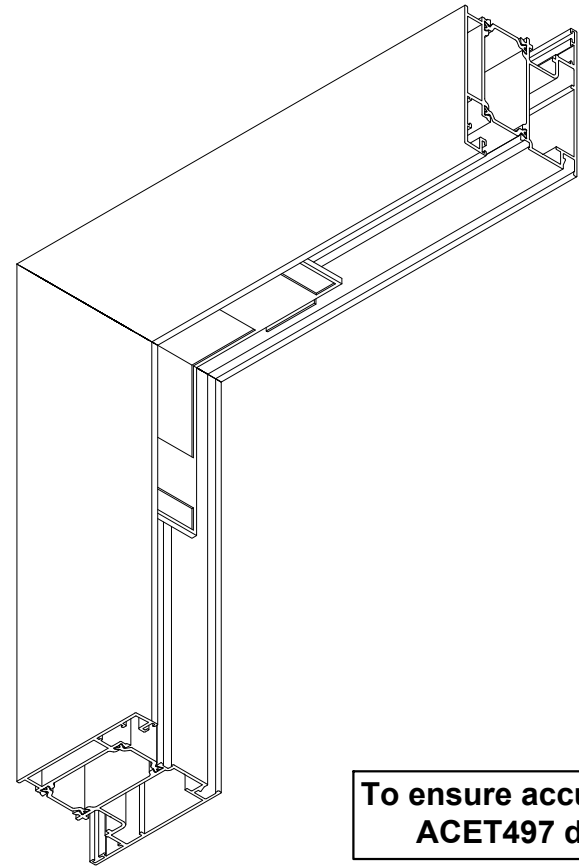
1. USING SMALL FLAT HEADED SCREWDRIVER OR SIMILAR, WEDGE TIP BETWEEN CO EXTRUDED GASKET AND ALUMINIUM.
2. IN A LEVERING MOTION, PRISE THE GASKET AWAY FROM THE ALUMINIUM. PARTICULAR CARE SHOULD BE TAKEN NOT TO DAMAGE THE GLASS UNIT AND ALUMINIUM.
3. COMPLETE THIS AT SEVERAL LOCATIONS ALONG THE LENGTH 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.

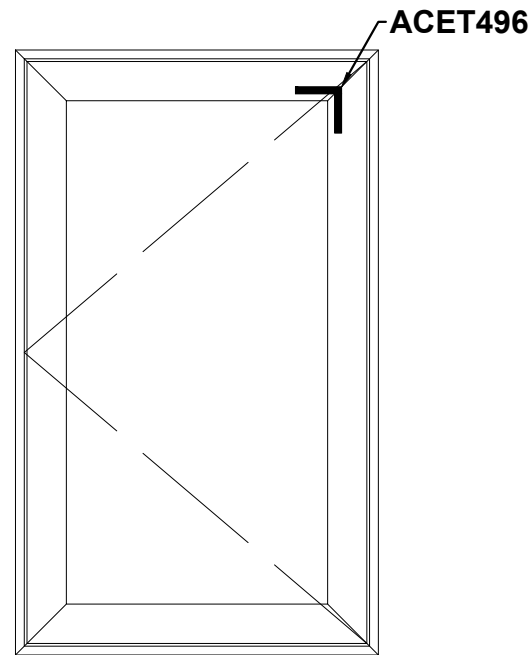


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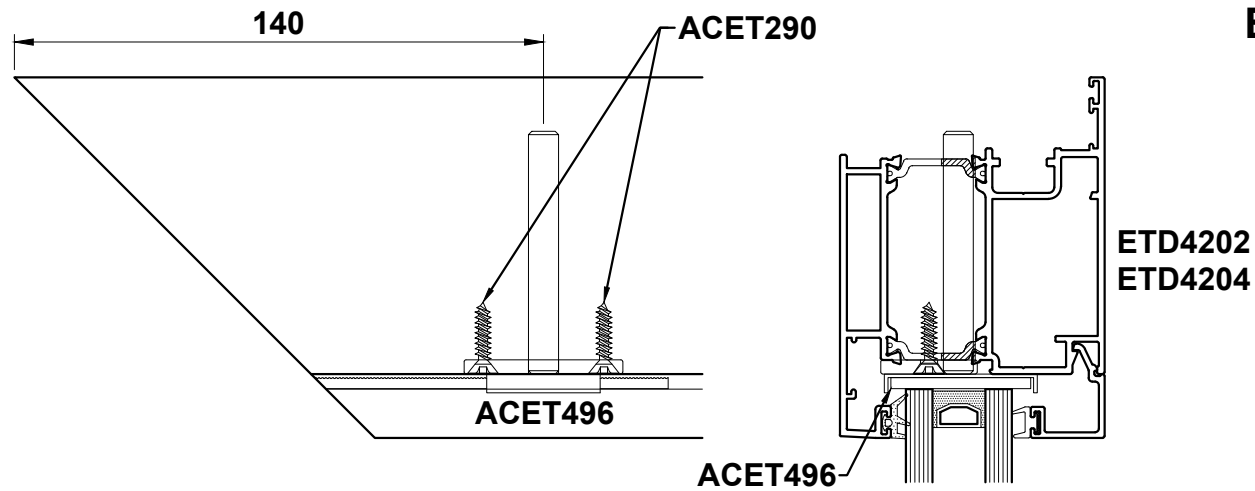
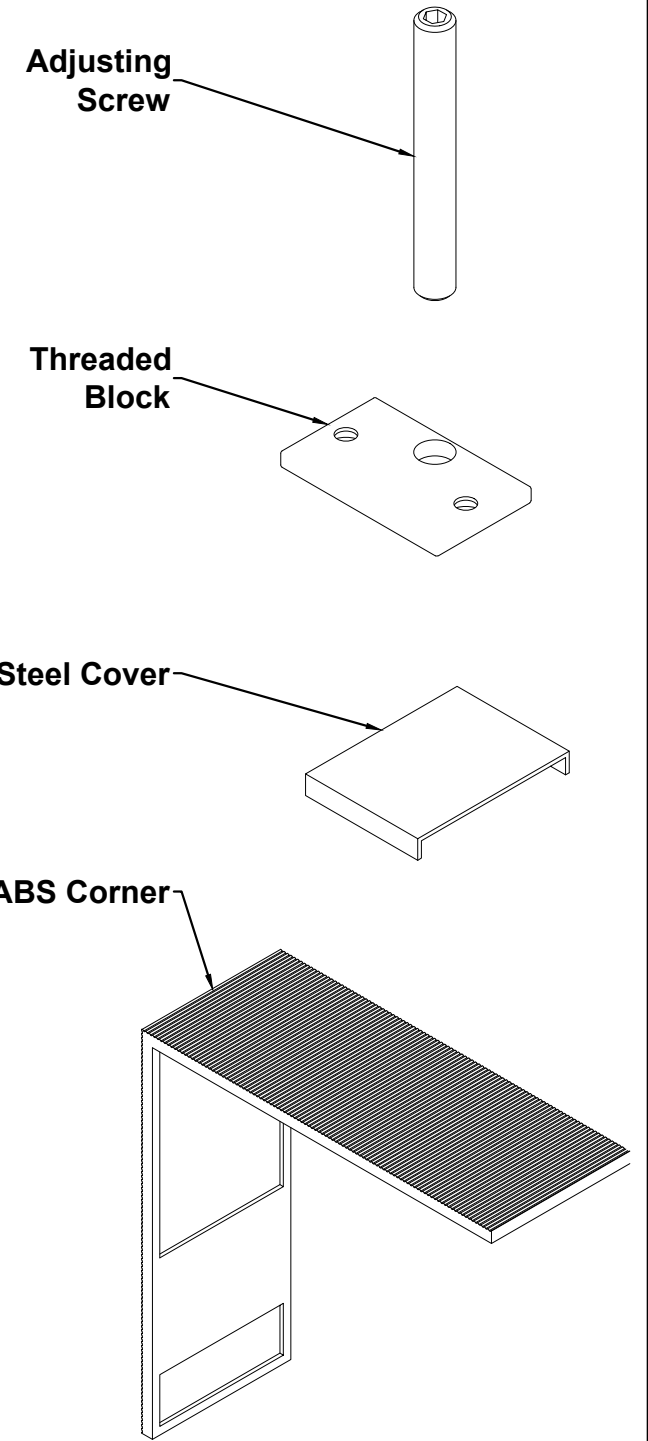
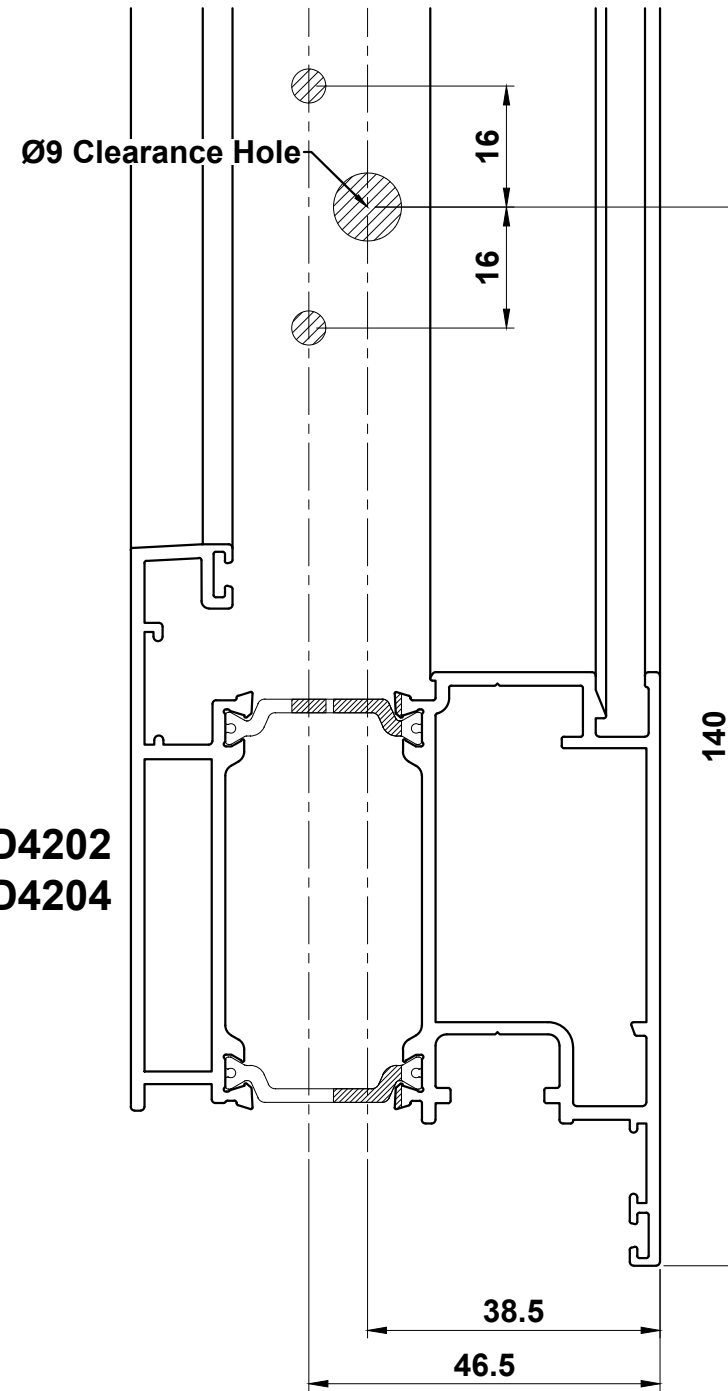
**ACET496 Glass Adjuster**



To ensure accuracy use  
ACET497 drill jig

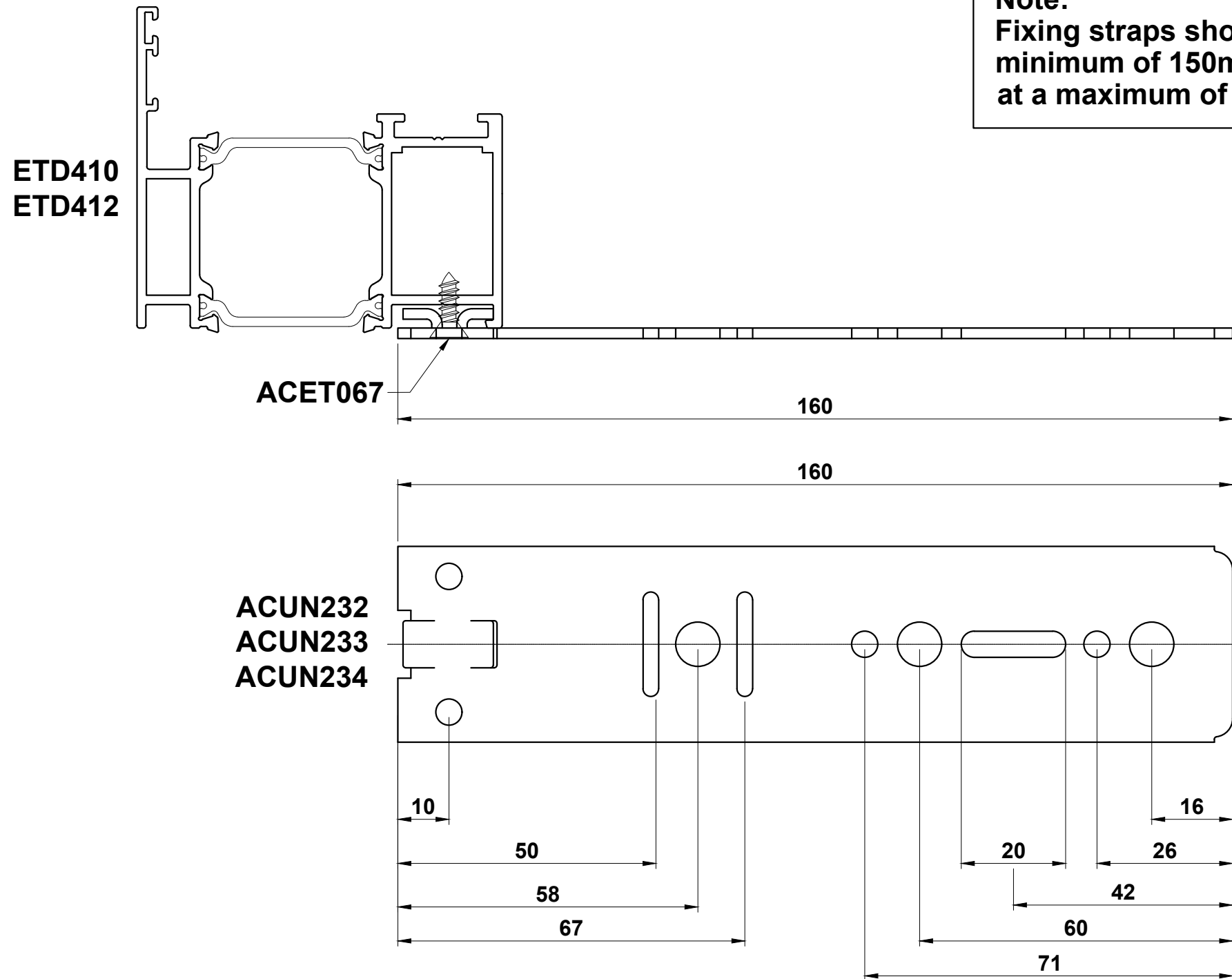


Note: Do not tighten the adjusting  
screw too tightly as it can lead to  
cracked glass.



Do Not Scale From This Drawing

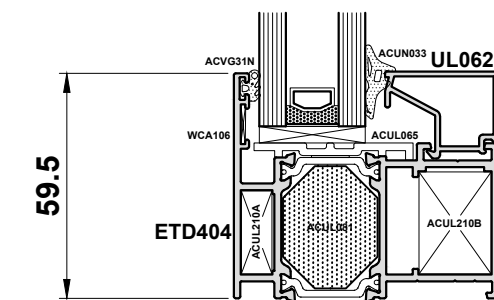
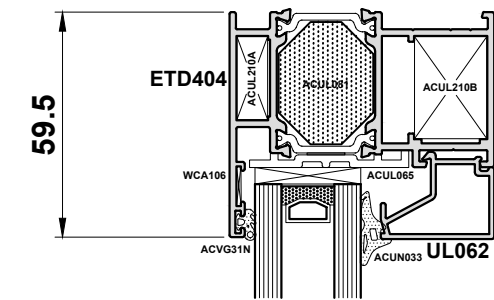
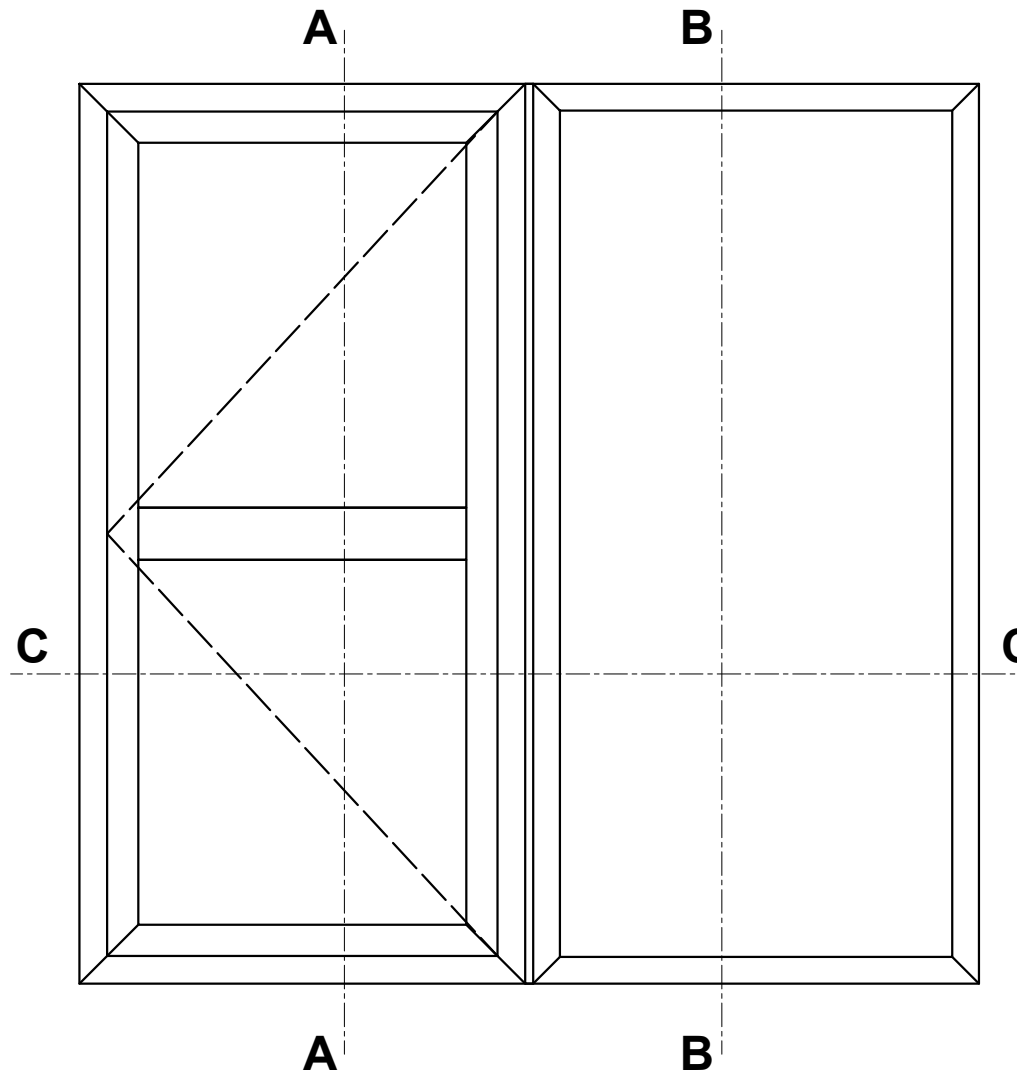
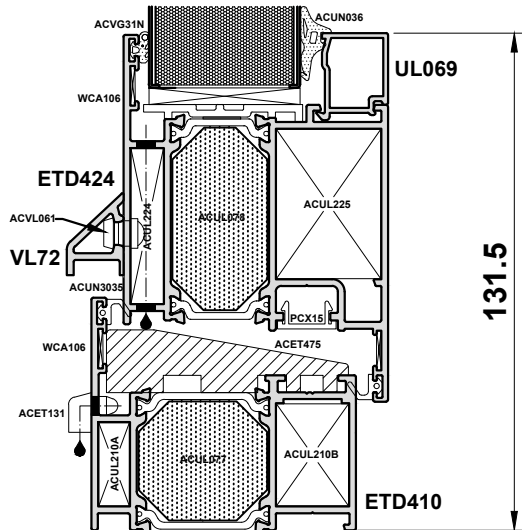
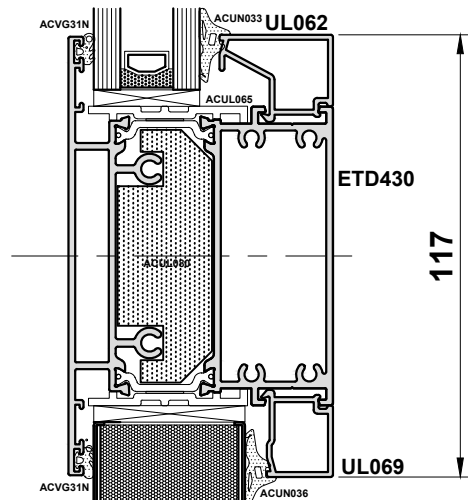
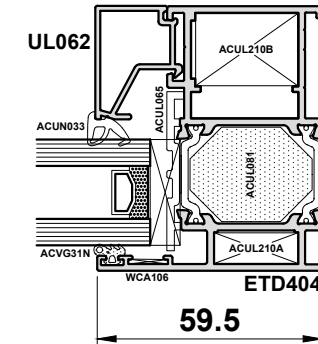
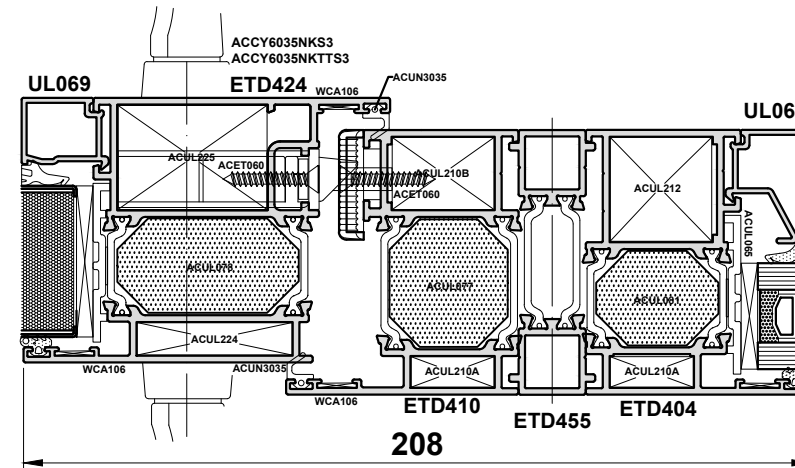
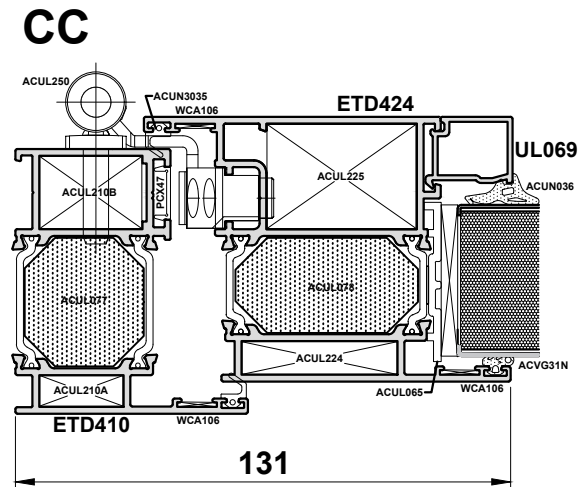
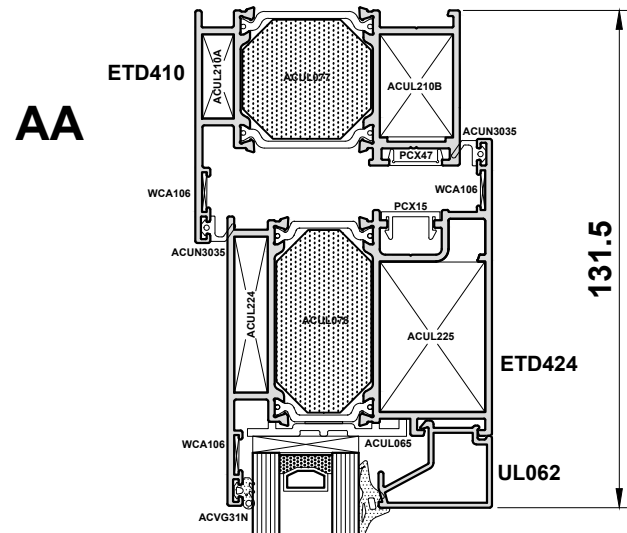
Fixing Strap Detail



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

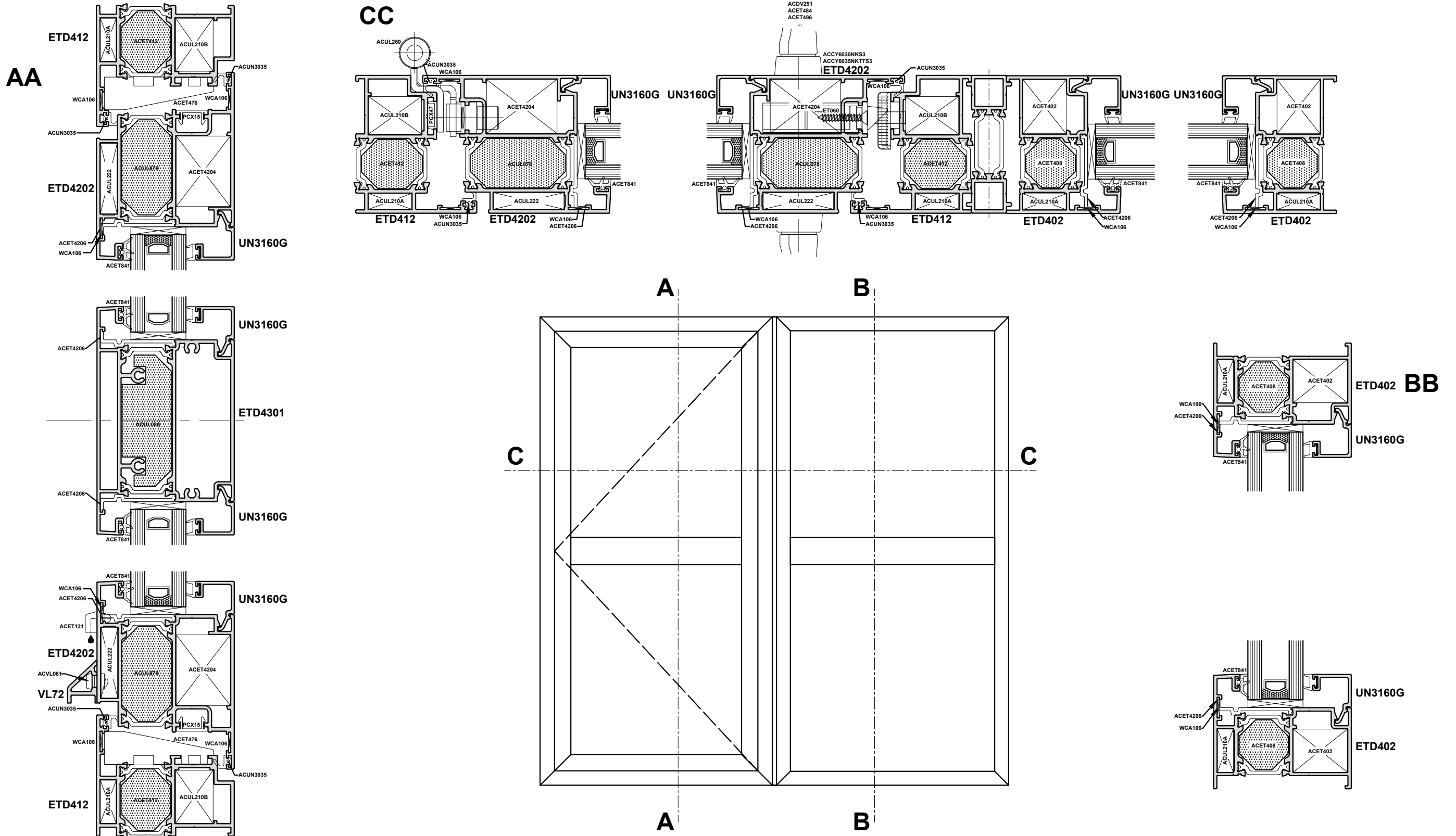
Do Not Scale From This Drawing

**Example Layout**



**Do Not Scale From This Drawing**

**Flush Example Layout**



Do Not Scale From This Drawing



**Section E**

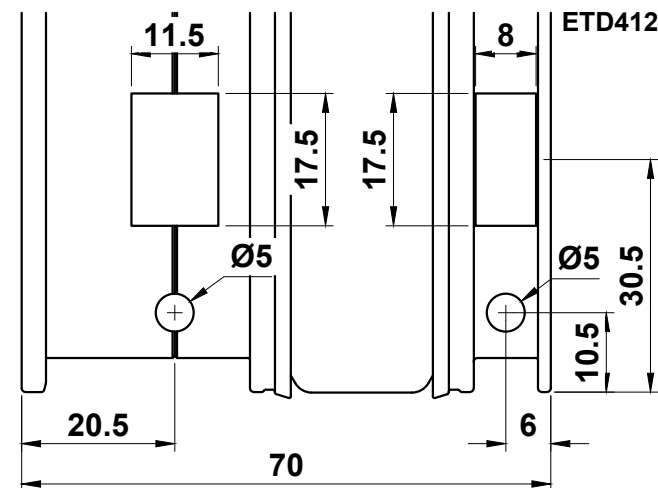
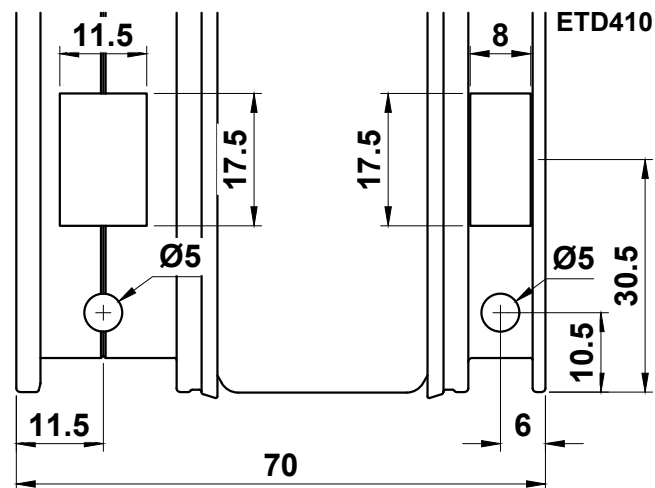
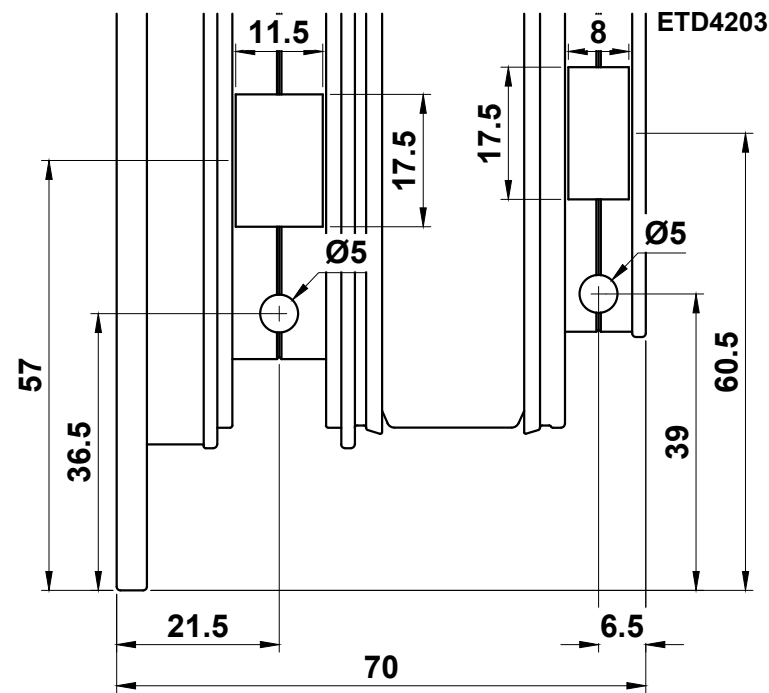
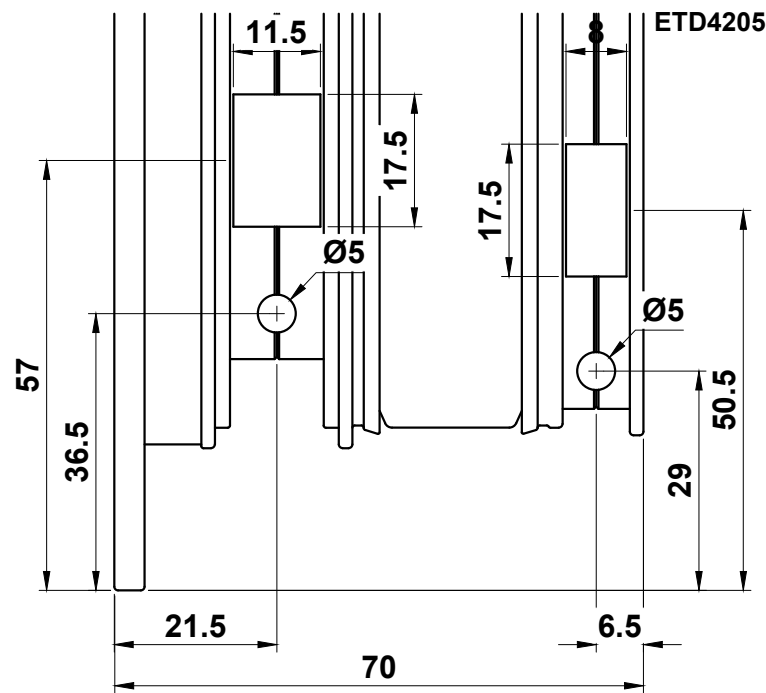


**Construction Drawings - Open Out**

Stepped		General		Flush	
Corner Joint Detail.....	E63	Corner Joint Detail.....	E63	Corner Joint Detail.....	E63
ACUL900.....	E64	ACUL900.....	E64	ACUL900.....	E64
Low Rebate Threshold Assembly.....	E65	Low Rebate Threshold Assembly.....	E66	Low Rebate Threshold Assembly.....	E66
Low Ramp Threshold Assembly.....	E67	Low Ramp Threshold Assembly.....	E68	Low Ramp Threshold Assembly.....	E68
Drainage.....	E69	Drainage.....	E70	Drainage.....	E70
Sub Cill Drainage.....	E71	Sub Cill Drainage.....	E71	Sub Cill Drainage.....	E71
Quick-Glaze Bead Transom Assembly.....	E72	Quick-Glaze Bead Transom Assembly.....	E72	Quick-Glaze Bead Transom Assembly.....	E72
Stainless Steel Hardware.....	E73	Stainless Steel Hardware.....	E73	Stainless Steel Hardware.....	E73
Door Locking Hardware Options.....	E74	Door Locking Hardware Options.....	E74	Door Locking Hardware Options.....	E74
Hinge Preparation.....	E75	Hinge Preparation.....	E76	Hinge Preparation.....	E76
Lock Overview of Single and Double Doors.....	E77	Lock Overview of Single and Double Doors.....	E77	Lock Overview of Single and Double Doors.....	E77
Single Door Lock Preparation.....	E78	Single Door Lock Preparation.....	E78	Single Door Lock Preparation.....	E78

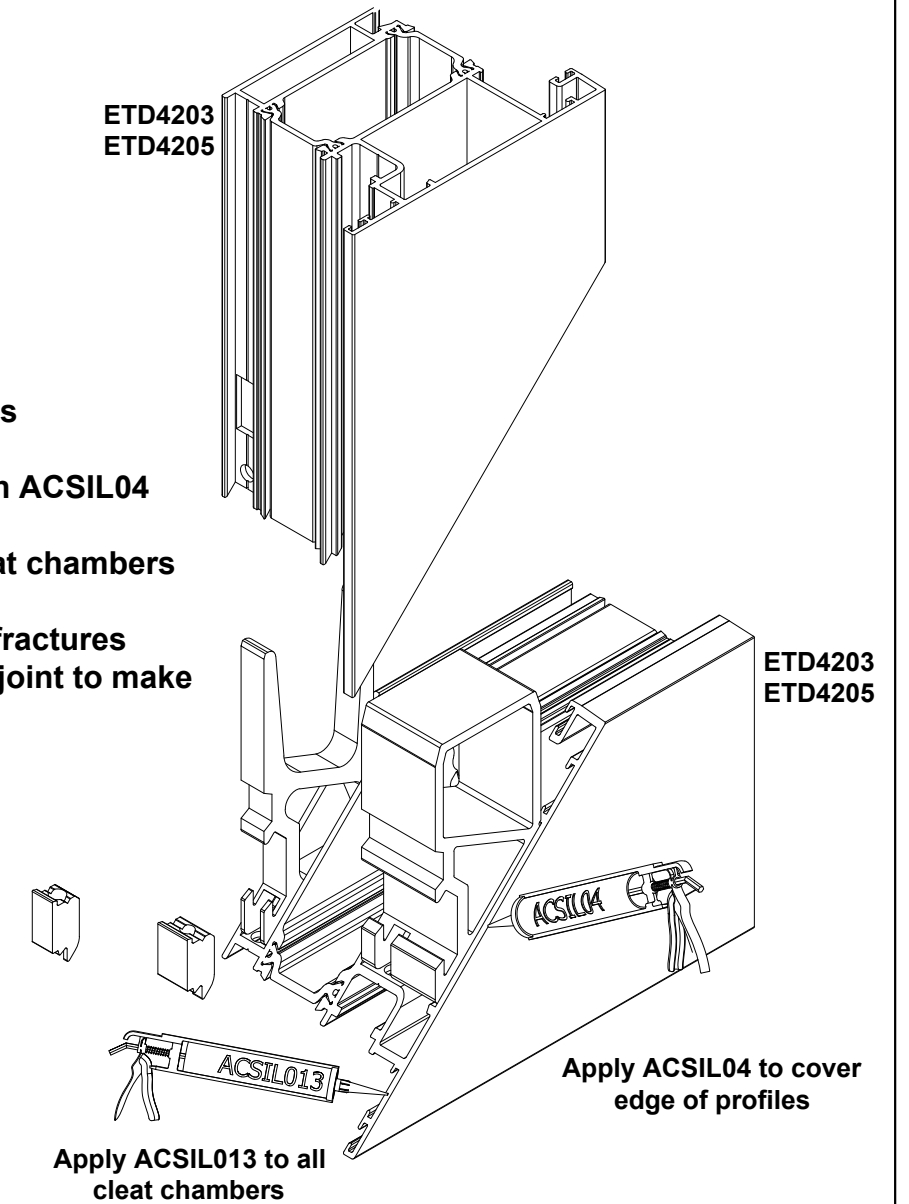


Corner Joint Details

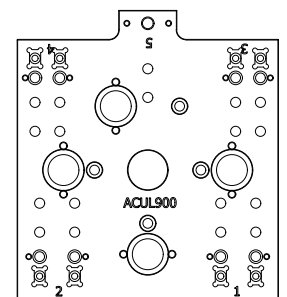


Notes

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



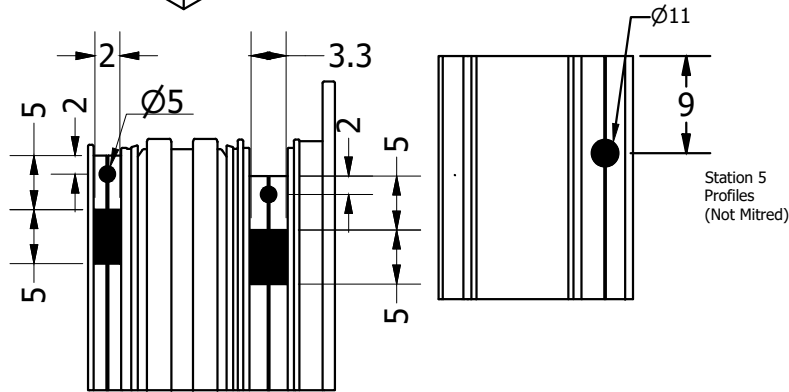
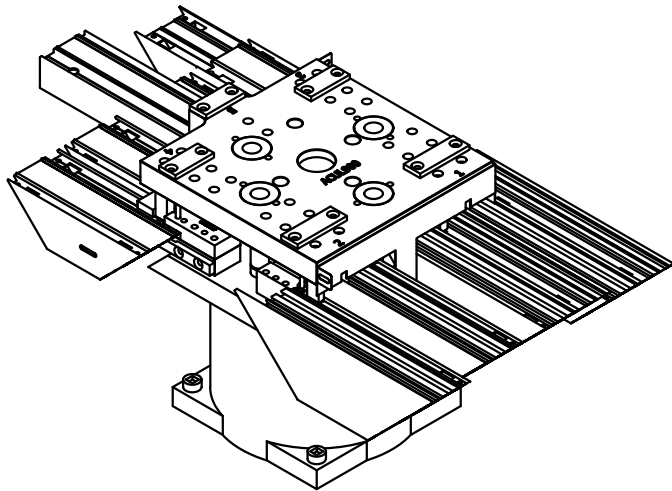
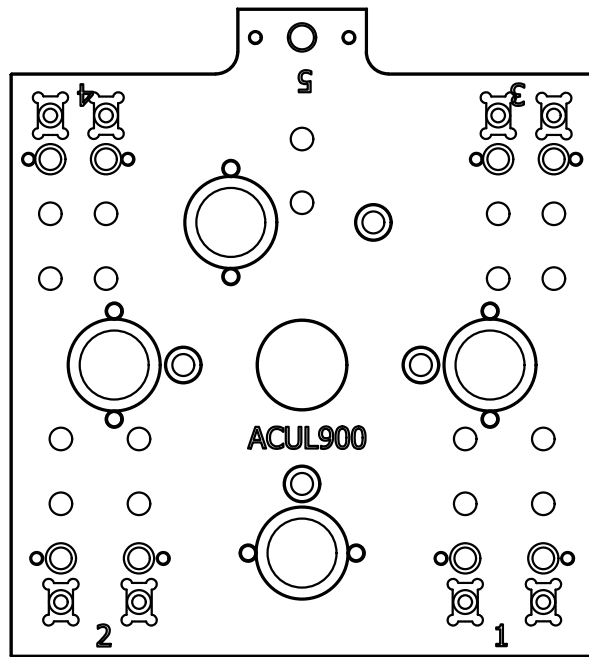
ACUL900



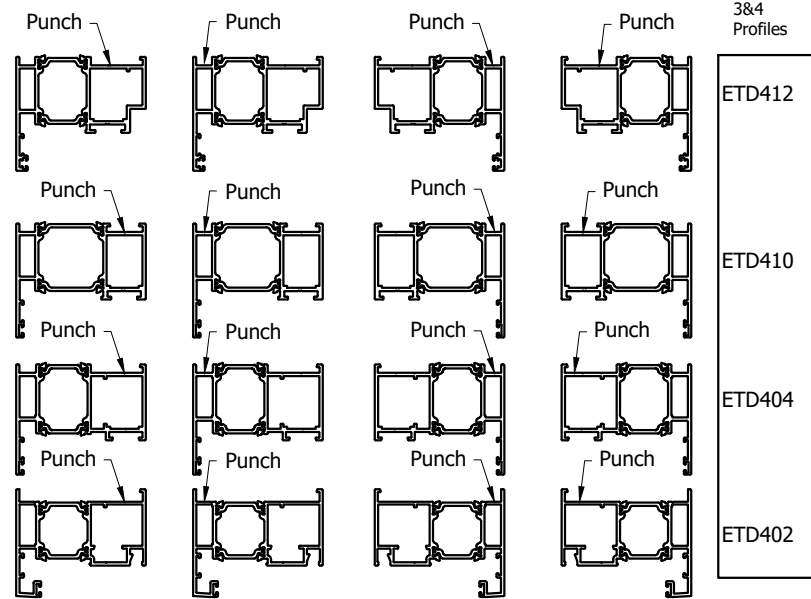
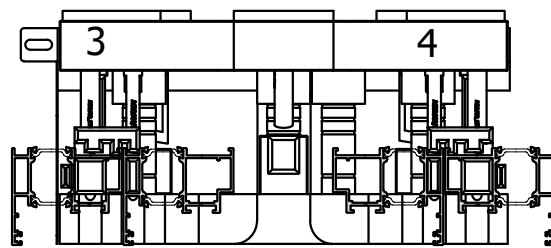
To ensure accurate corners, we recommend the use of support blocks (by others) whilst cutting.

Do Not Scale From This Drawing

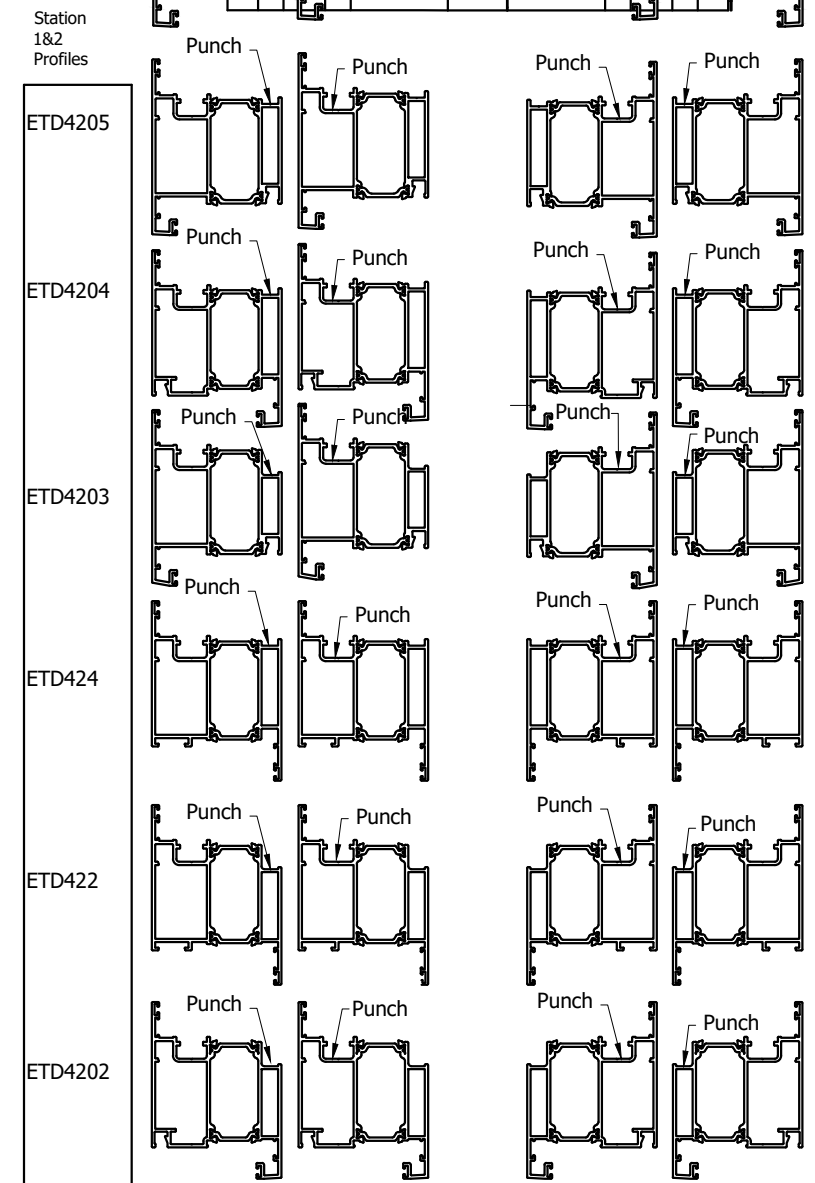
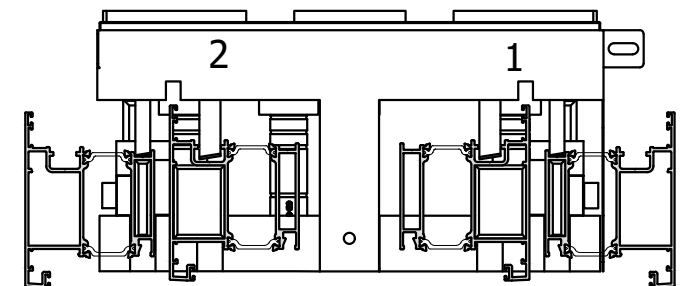
**ACUL900 Punch Tool**



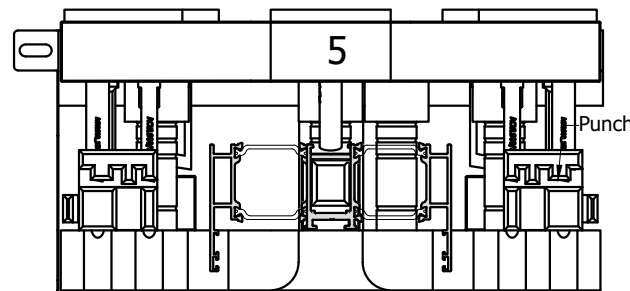
Station 3 & 4



Station 1 & 2



Station 5

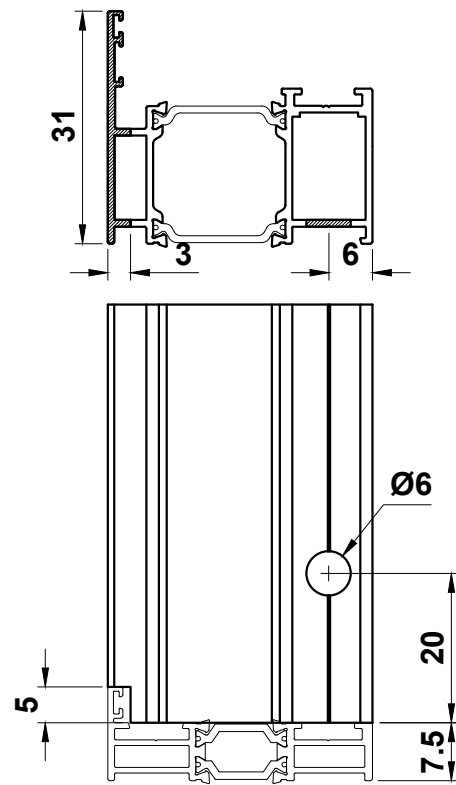
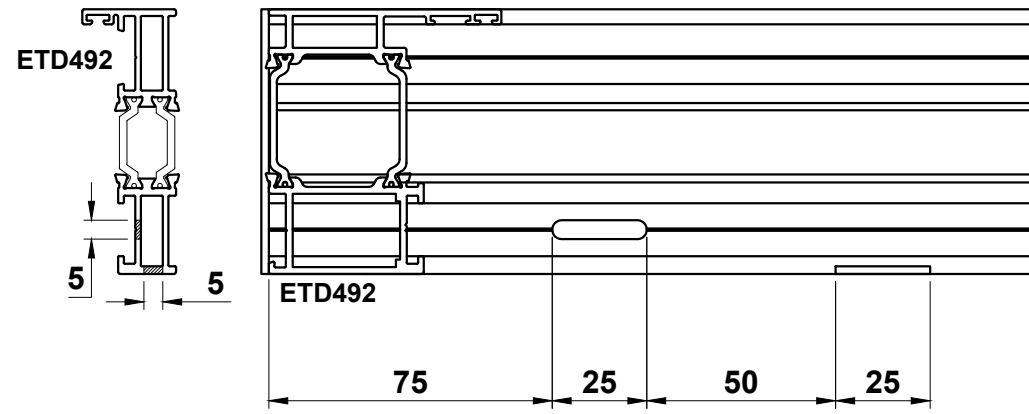


Station 5 Profiles

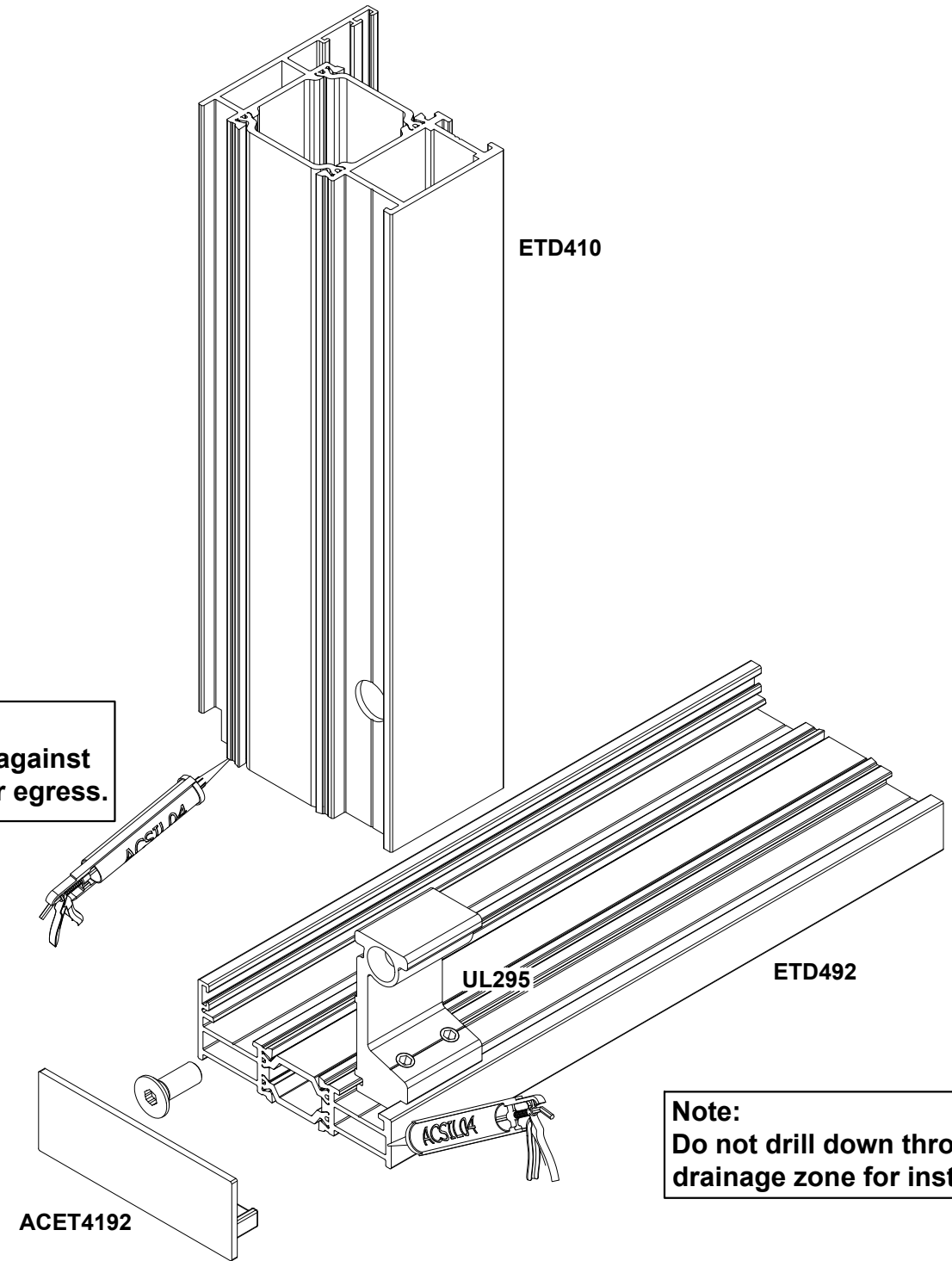


**Do Not Scale From This Drawing**

Low Rebate Threshold Assembly



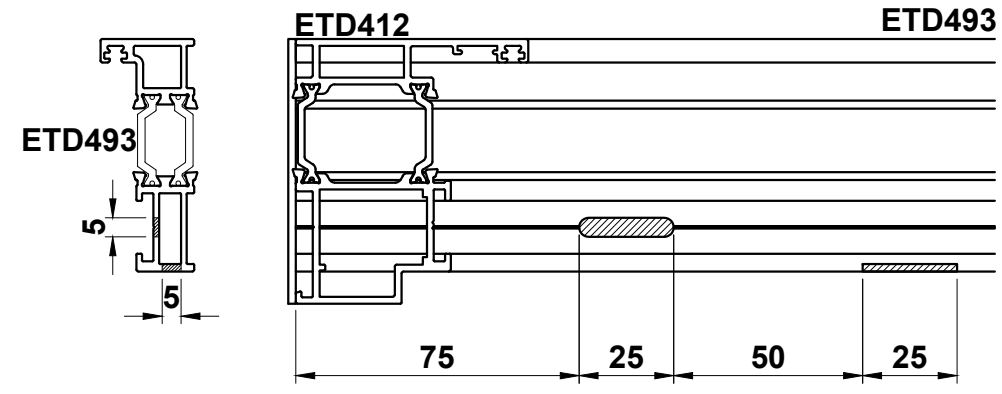
**Important Note:**  
Ensure end cap is sealed against threshold to prevent water egress.



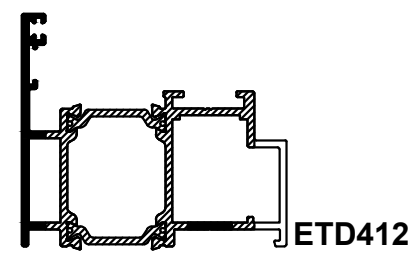
**Note:**  
Do not drill down through drainage zone for installation.

Do Not Scale From This Drawing

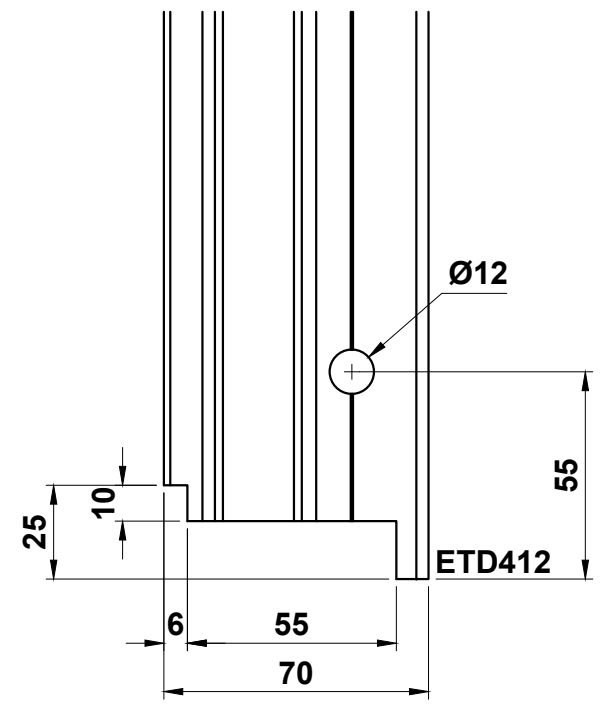
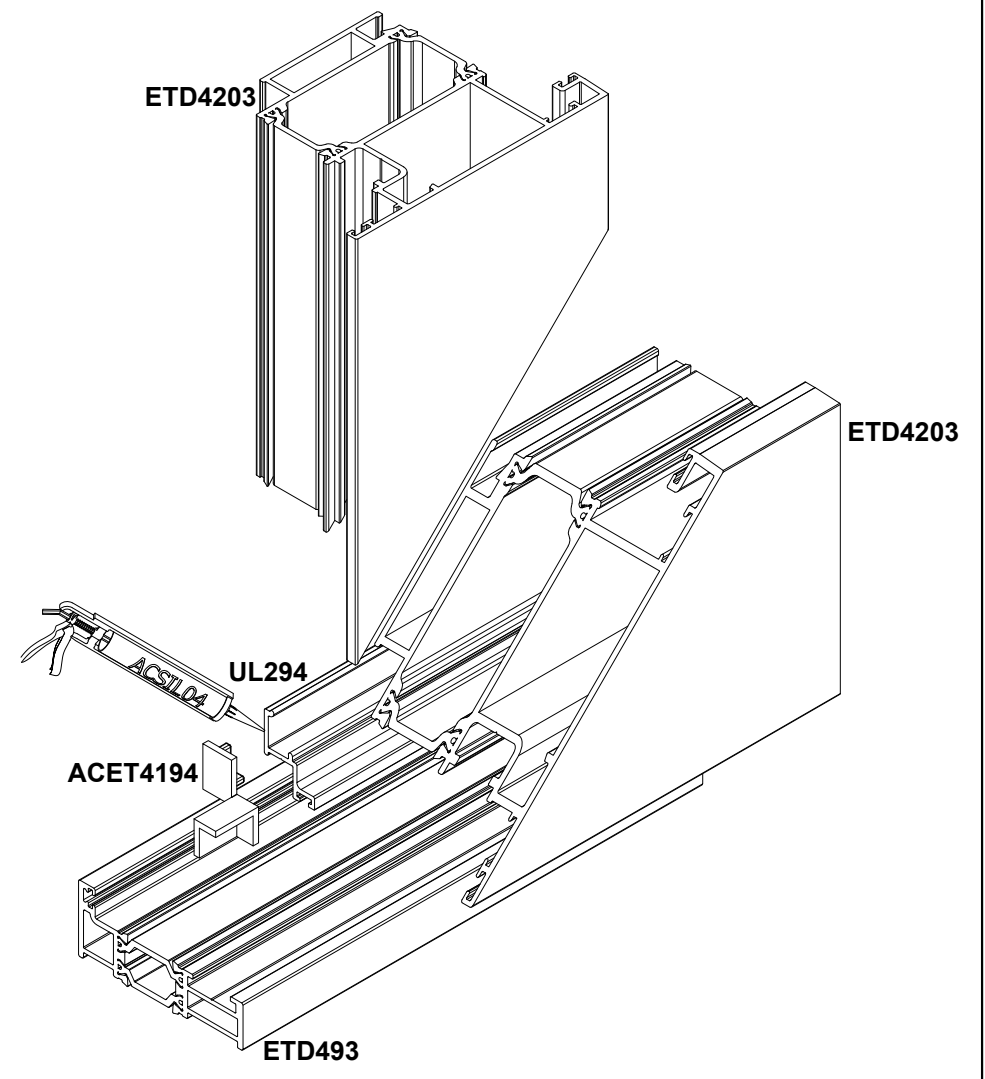
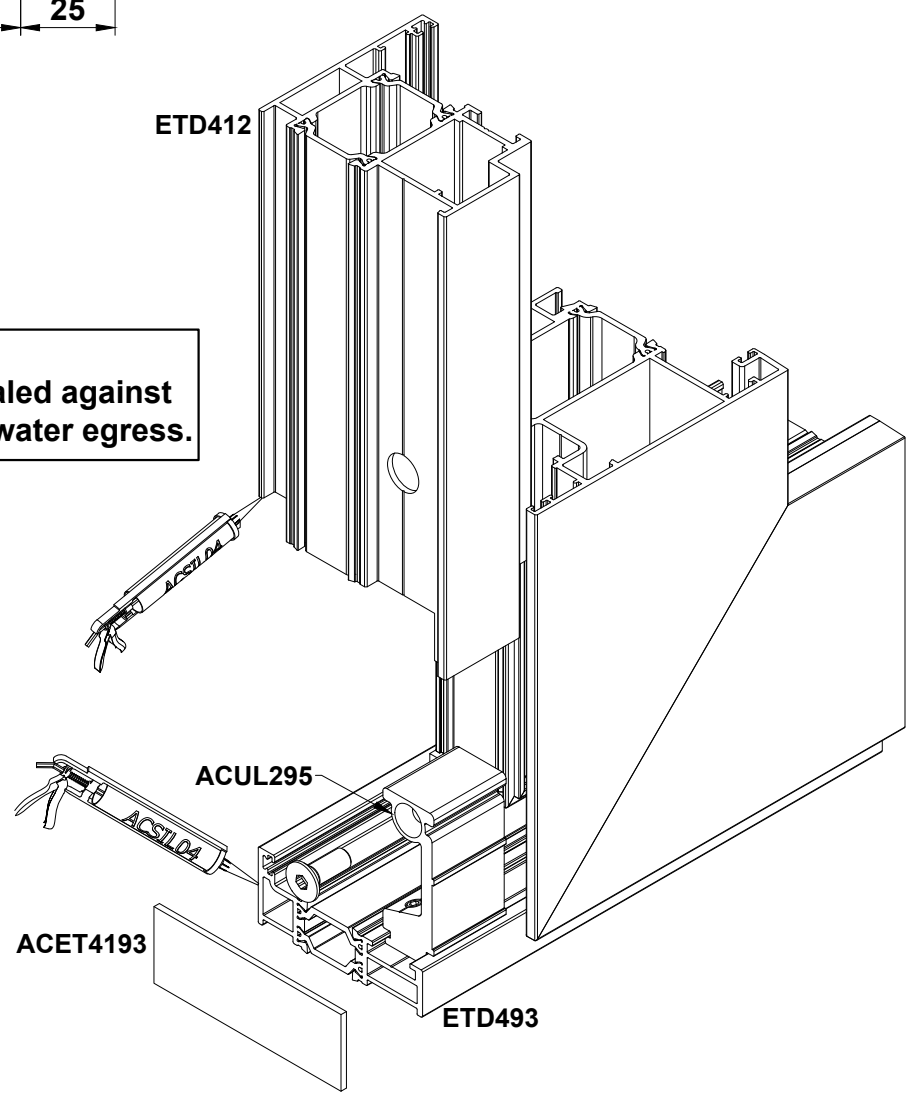
**Flush Low Rebate Threshold Assembly**



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



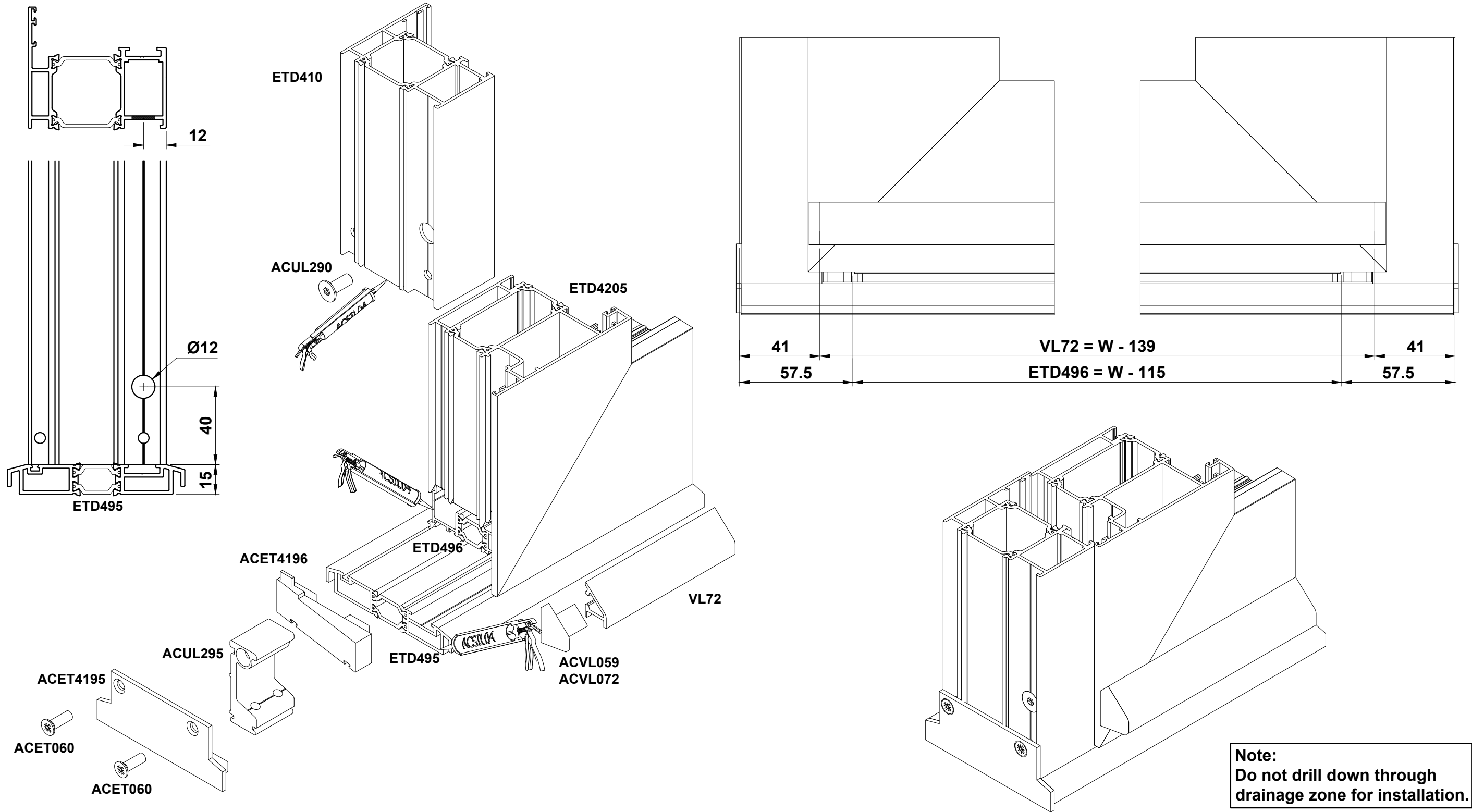
**Important Note:** Ensure end cap is sealed against threshold to prevent water egress.



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

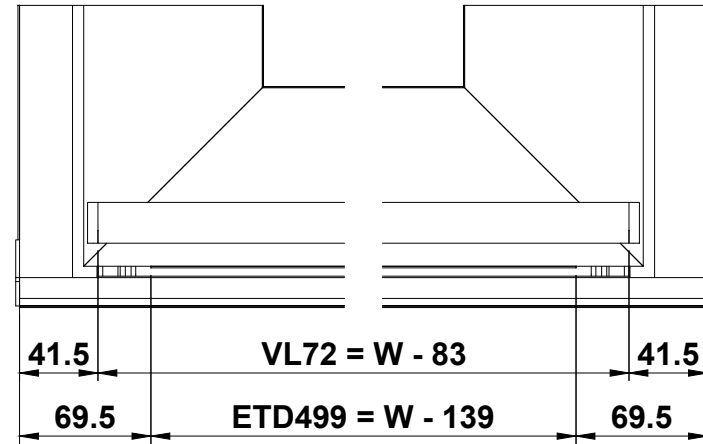
Do Not Scale From This Drawing

Low Ramp Threshold Assembly

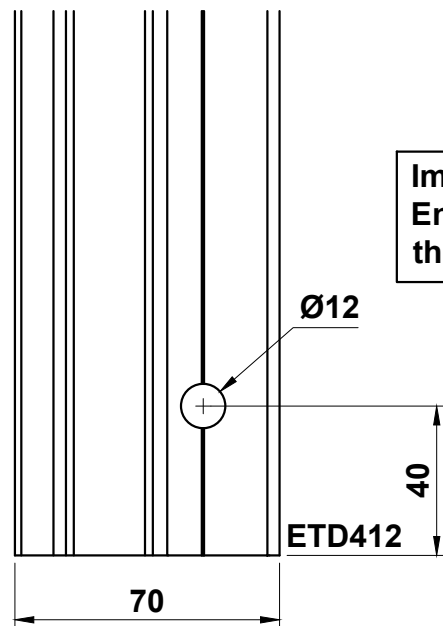
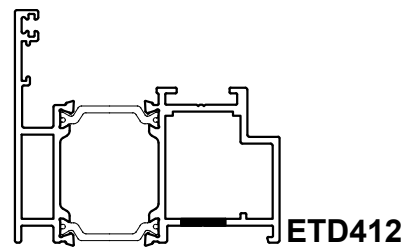


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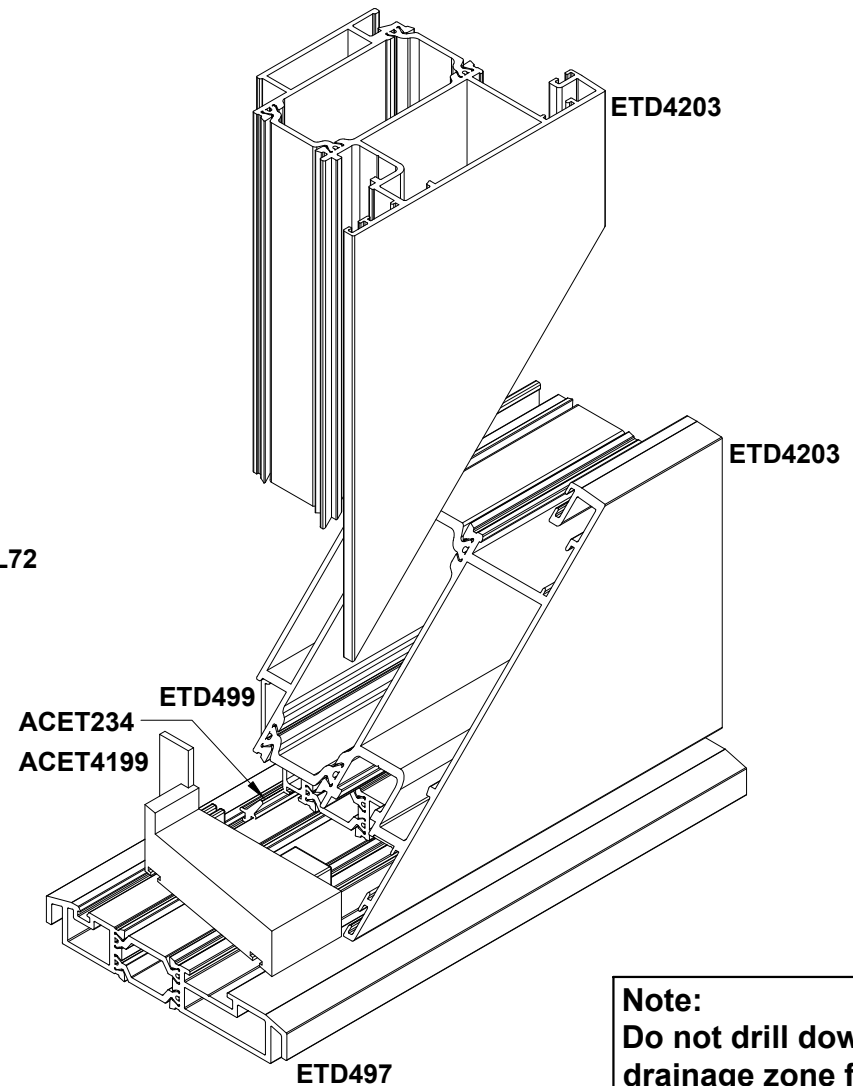
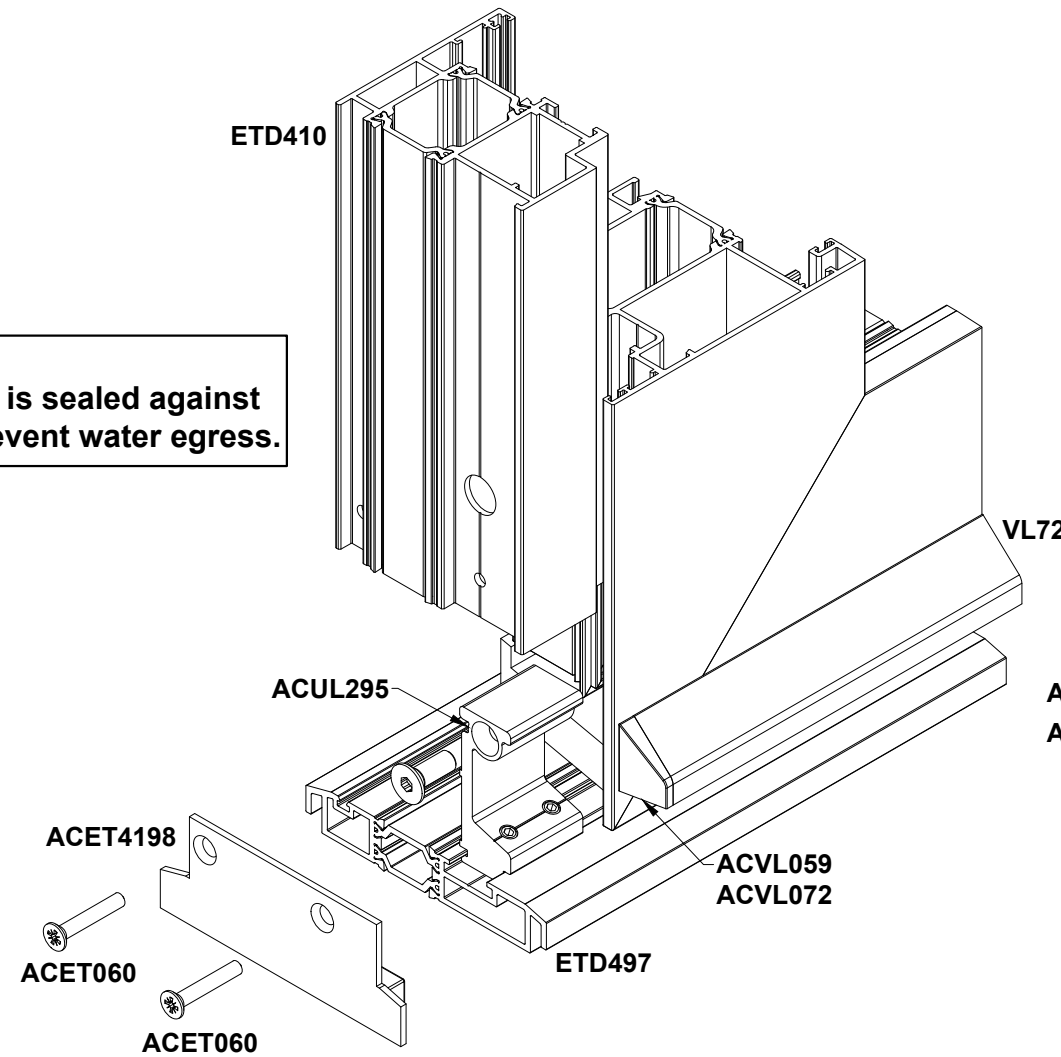
**Flush Low Ramp Threshold Assembly**



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



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



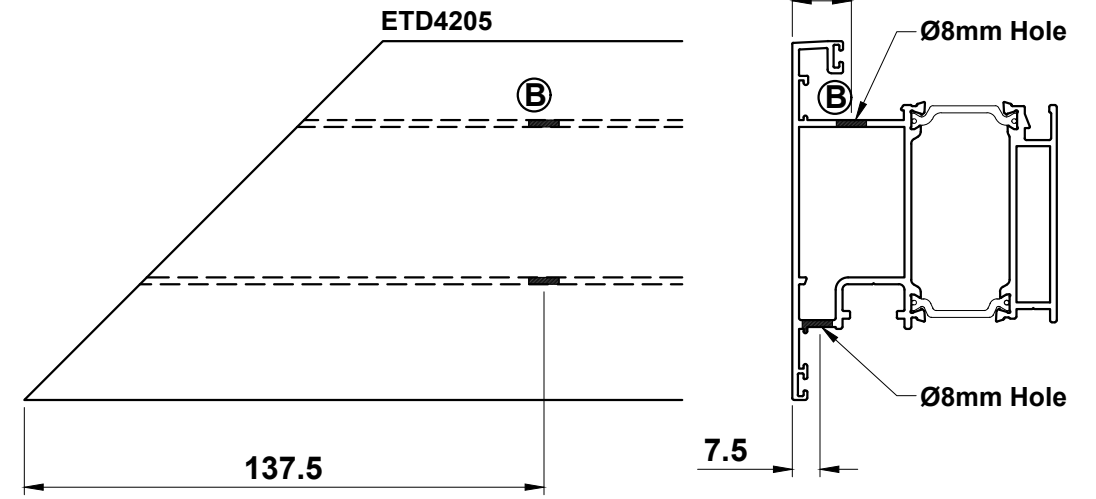
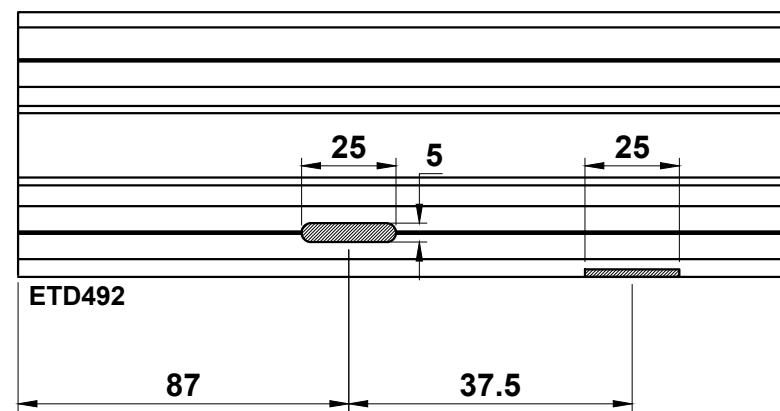
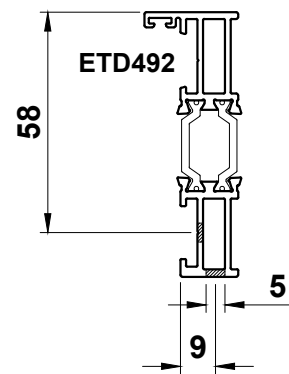
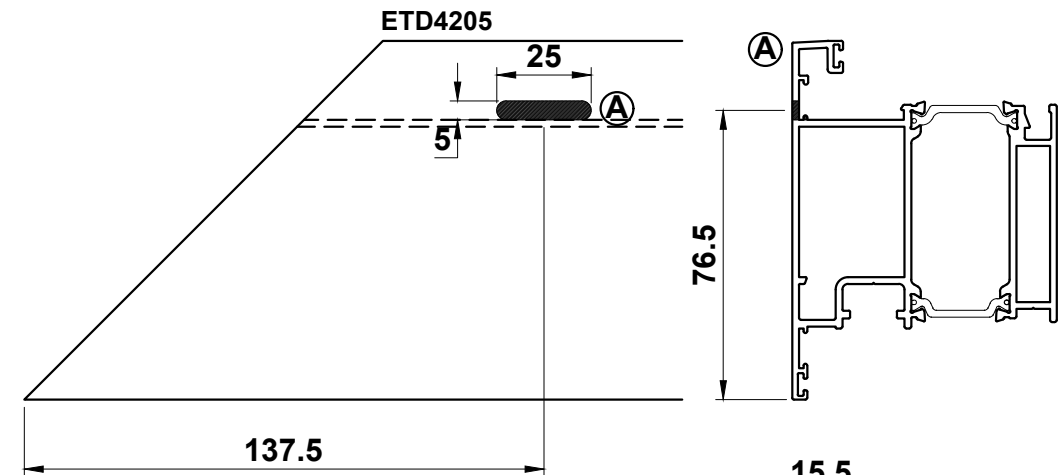
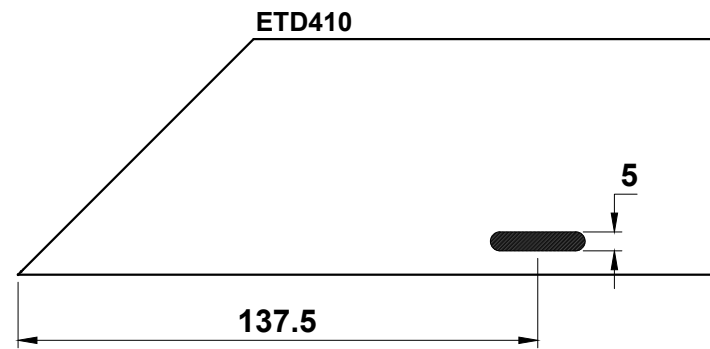
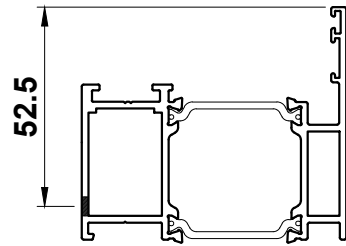
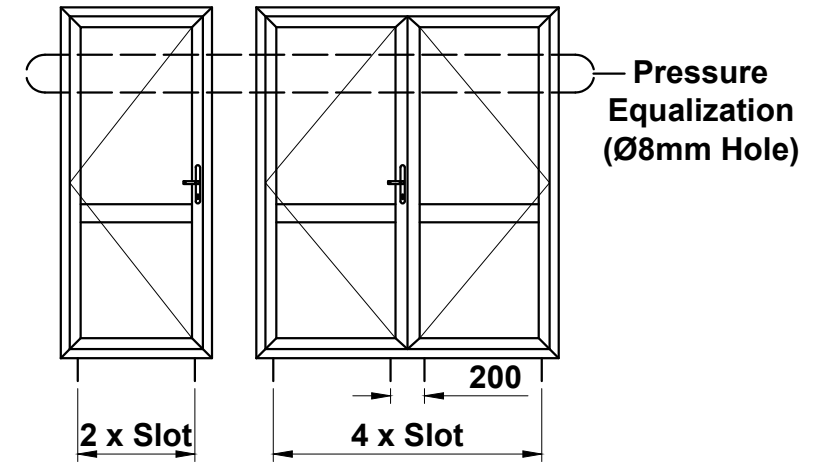
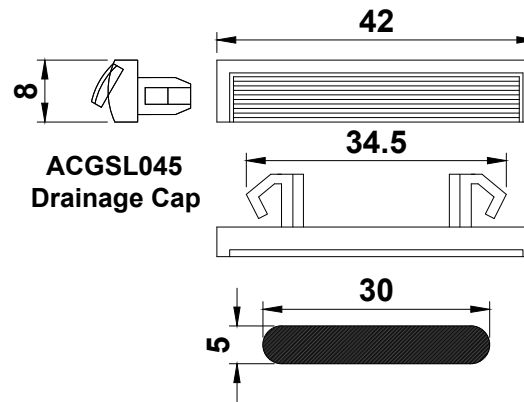
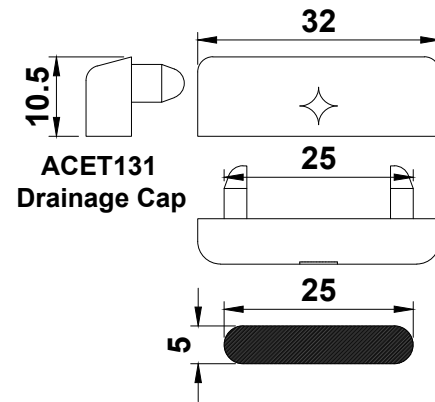
**Note:** Do not drill down through drainage zone for installation.

Do Not Scale From This Drawing



**Drainage**

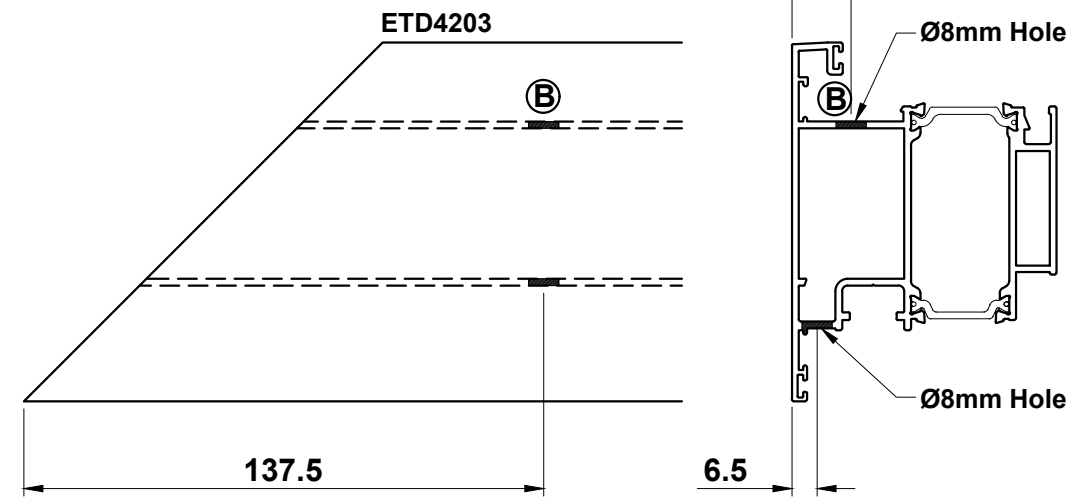
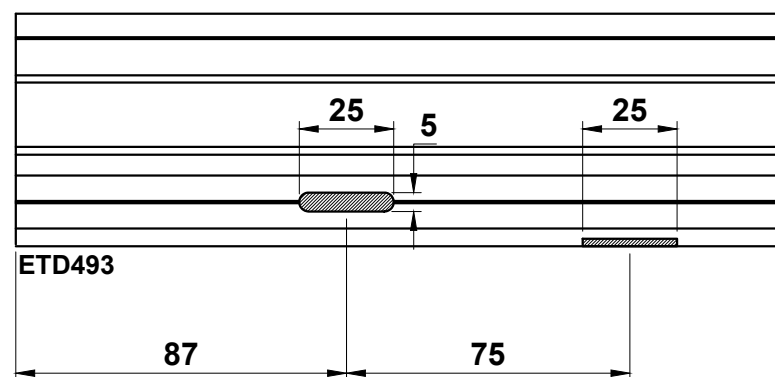
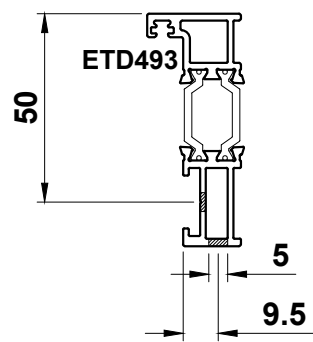
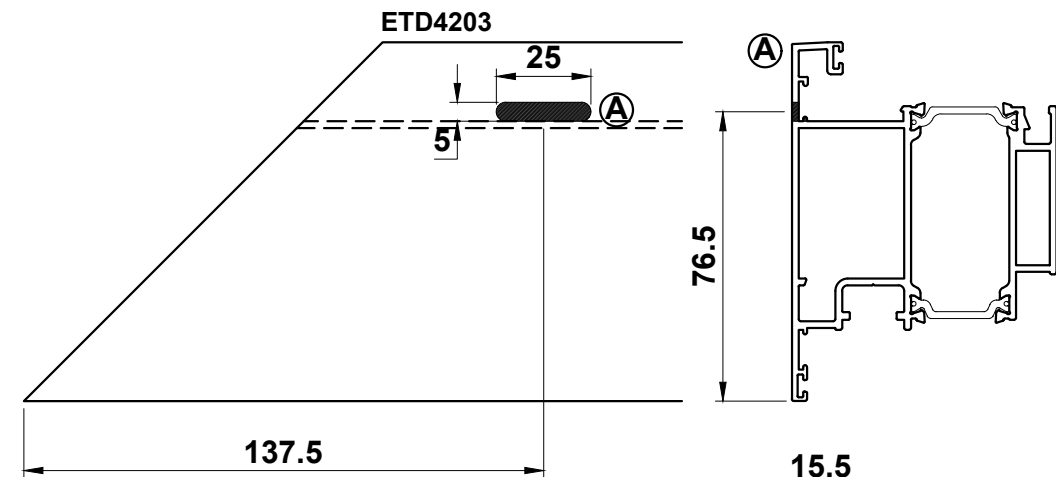
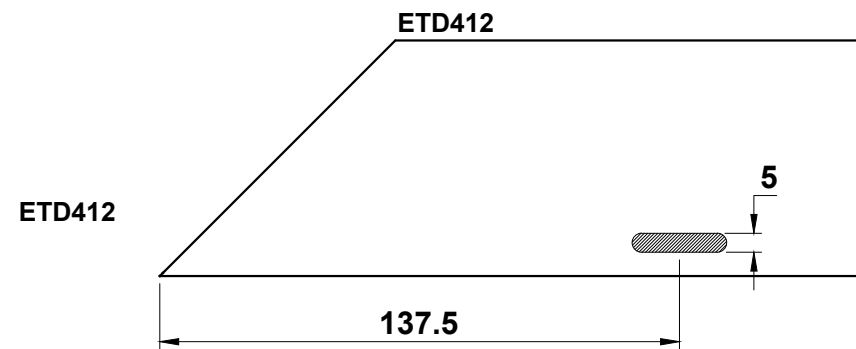
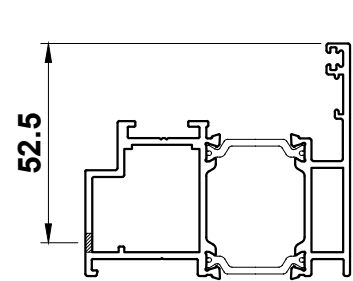
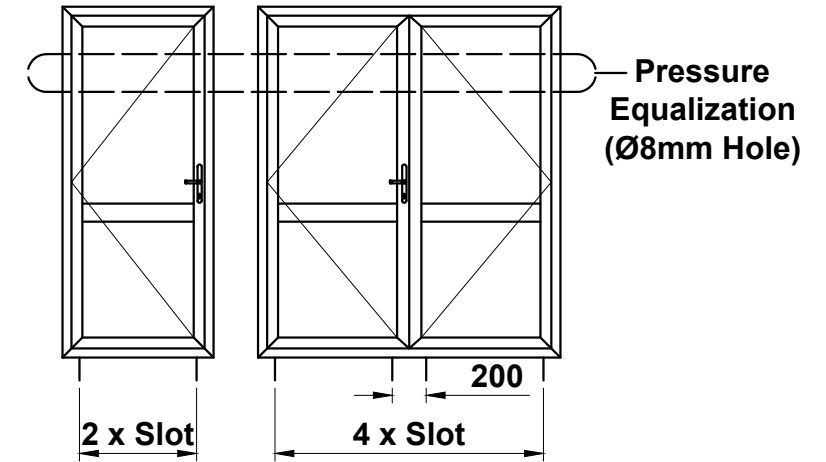
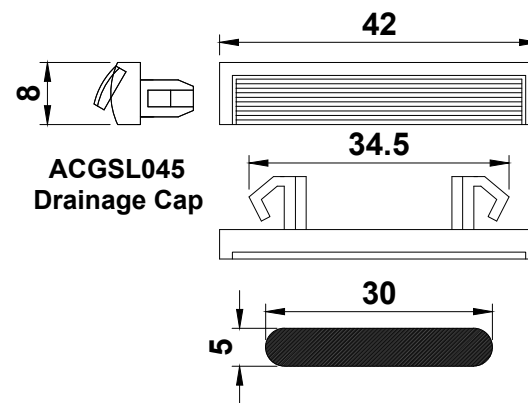
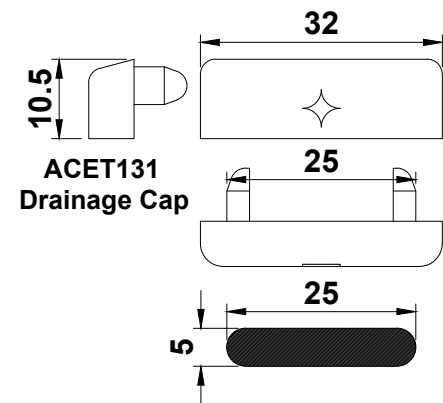
**Important Note: All exposed aluminium should be coated using ACSIL014 or painted to match the frame.**



Do Not Scale From This Drawing

**Flush Drainage**

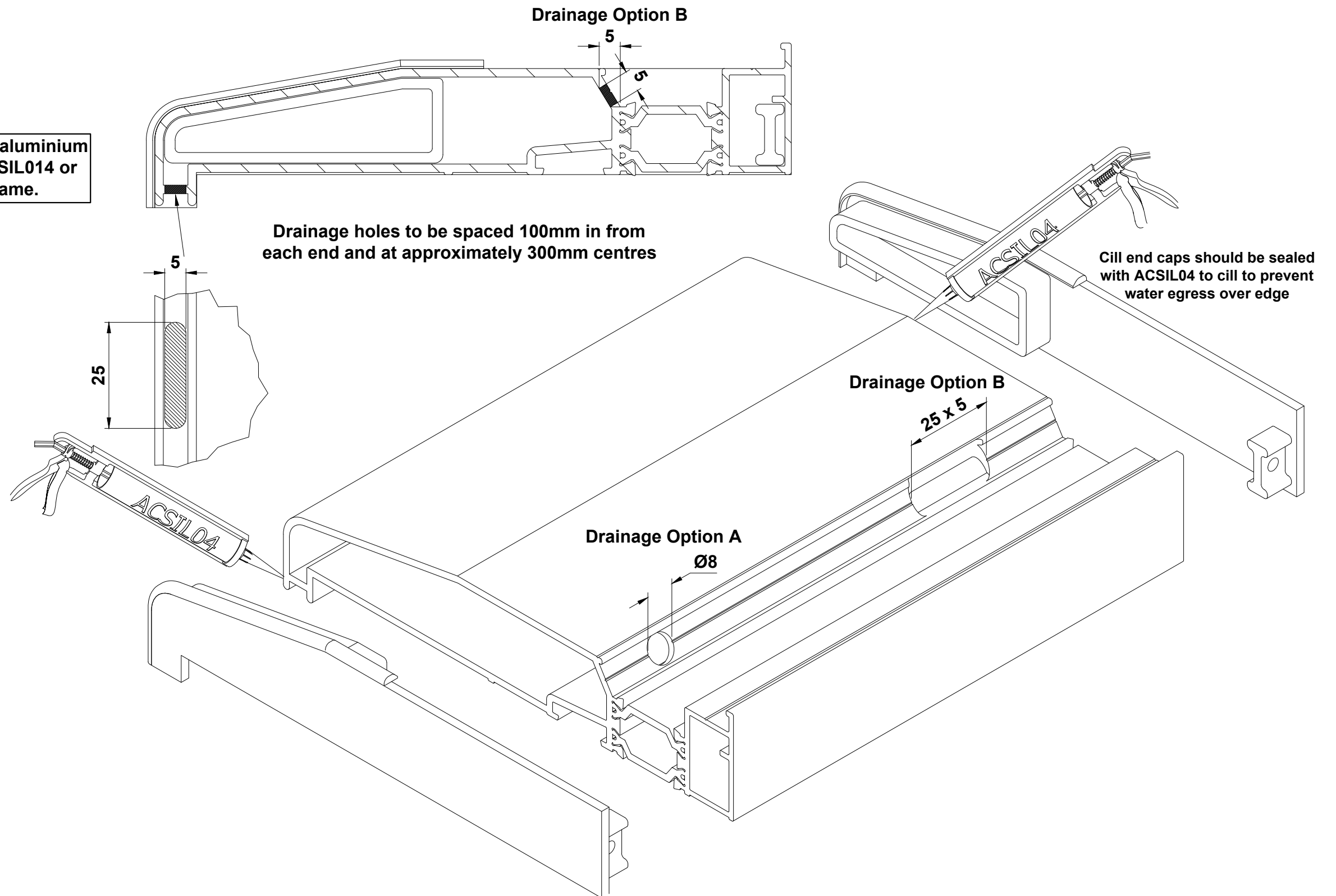
**Important Note: All exposed aluminium should be coated using ACSIL014 or painted to match the frame.**



**Do Not Scale From This Drawing**

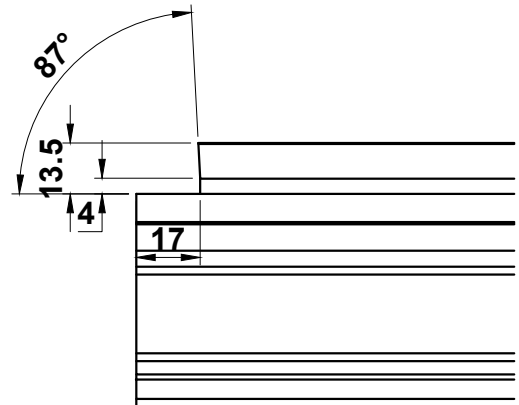
**Sub Cill Drainage**

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



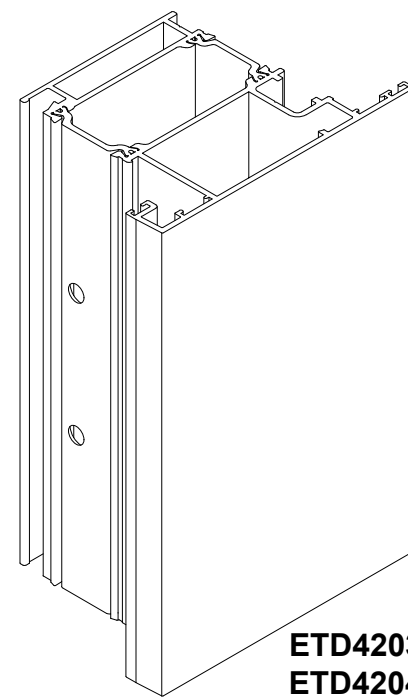
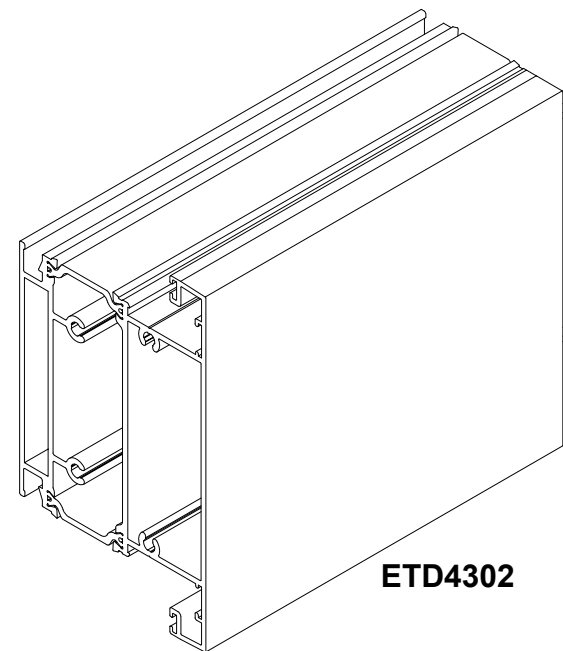
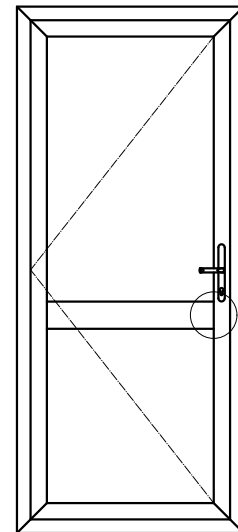
**Do Not Scale From This Drawing**

**ETD4302 Midrail Assembly**



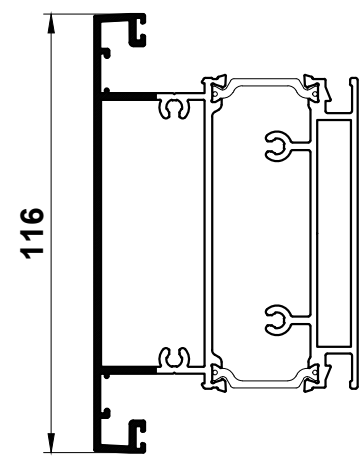
ETD4302

16.5

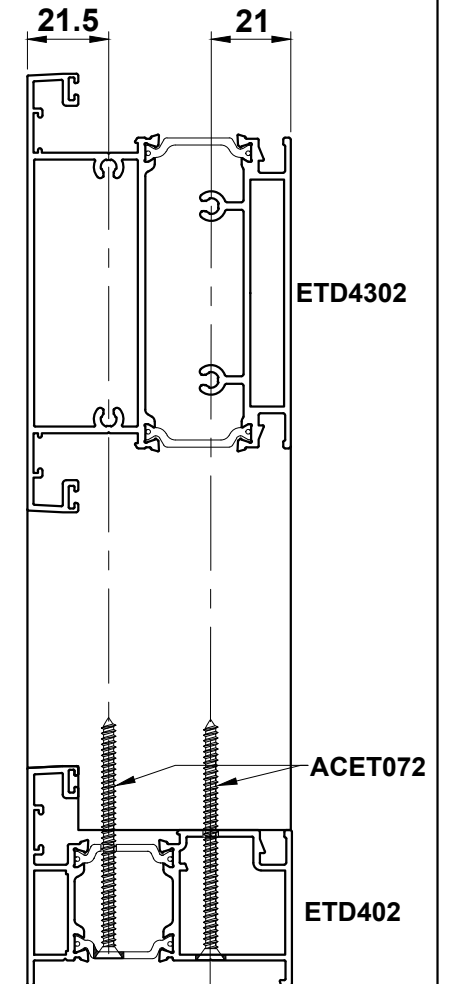
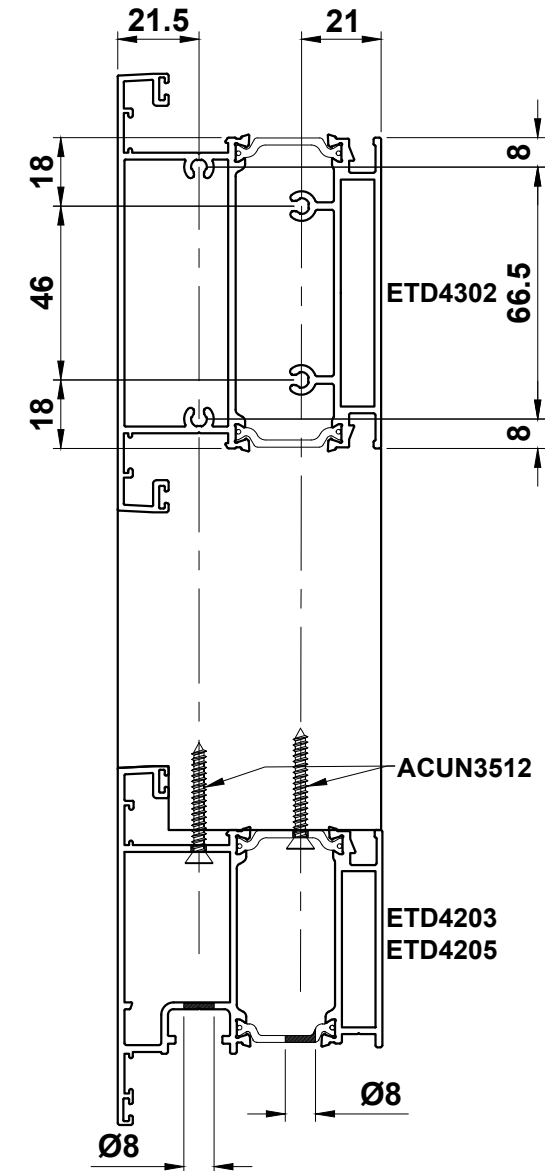


2 X ACUN3512

2 X ACUN3512



ETD4302

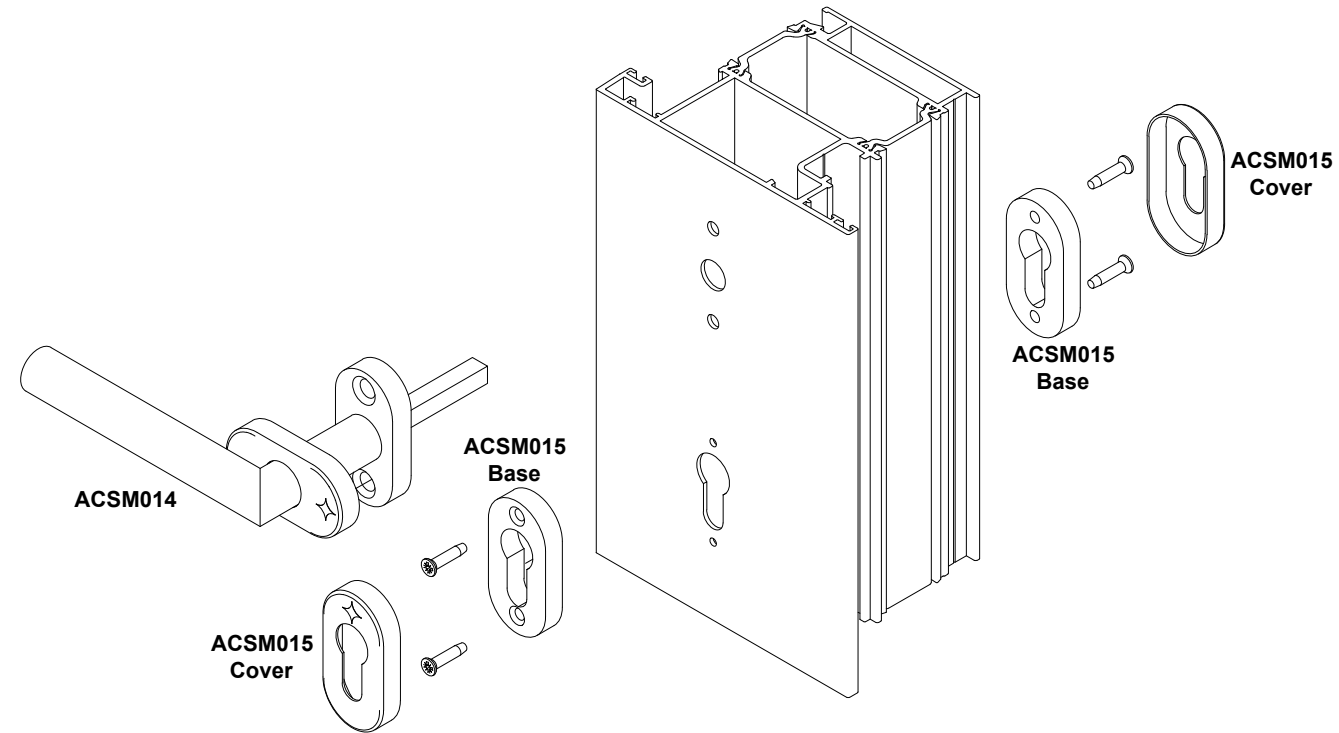


Do Not Scale From This Drawing

**Stainless Steel Hardware - ACSM013, ACSM014 & ACSM015 Fitting Detail**

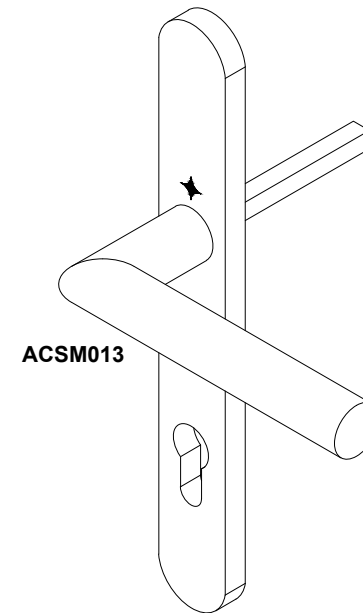
**Please Note:**

ACSM014 is compatible with slam locks and key operated locks only.  
Slam locks must not have an external lever handle.



**Please Note:**

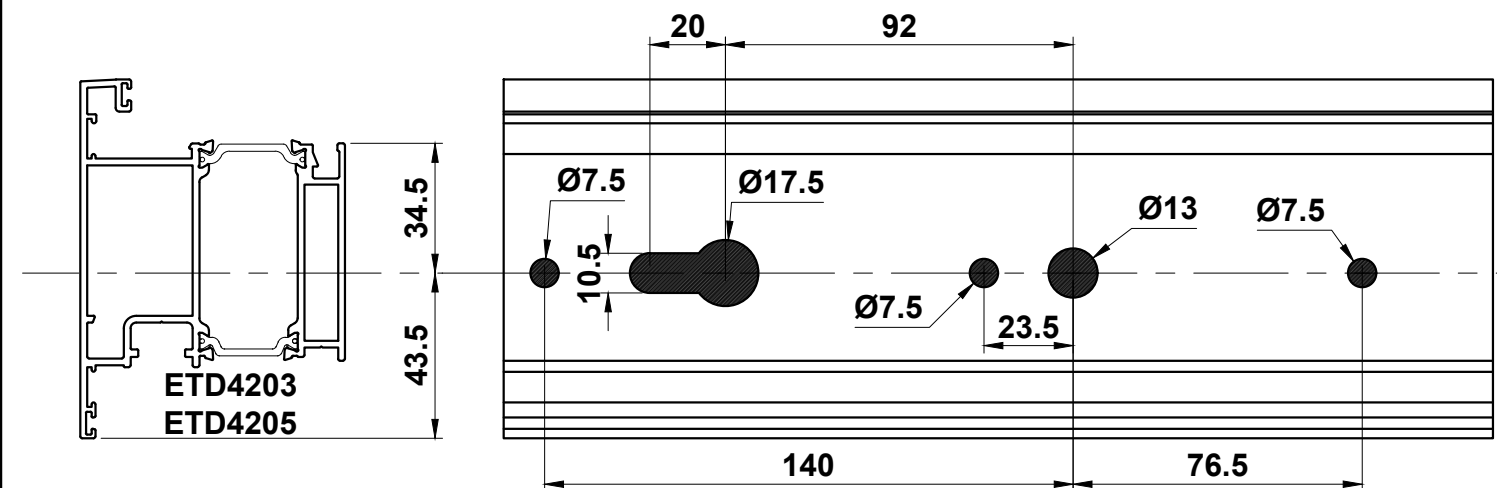
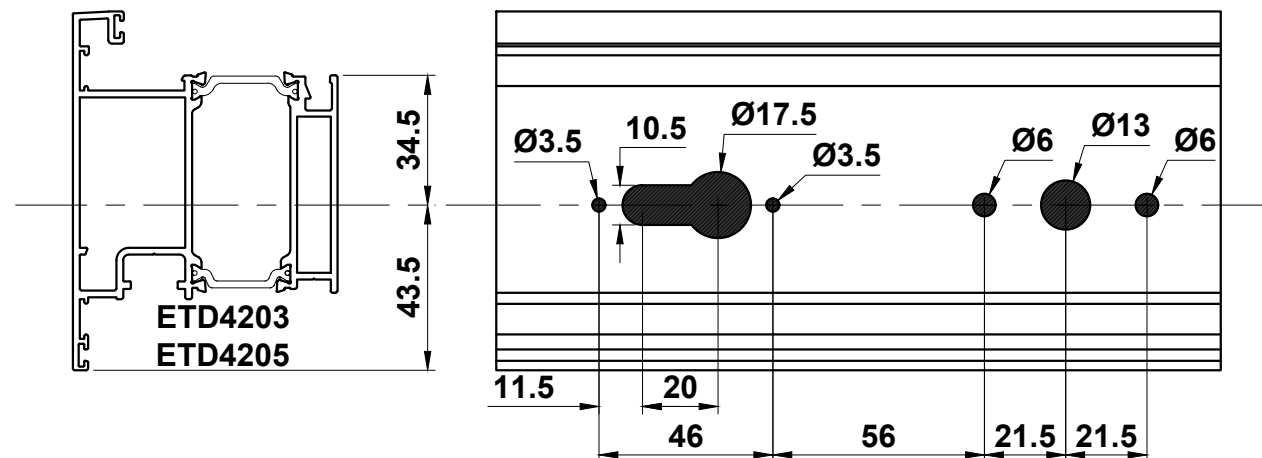
ACSM013 is compatible with all locks.  
Slam locks must not have an external lever handle therefore require WCA134 & ACUN3509 for single side fixing and the spindle will need to be cut down.



**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



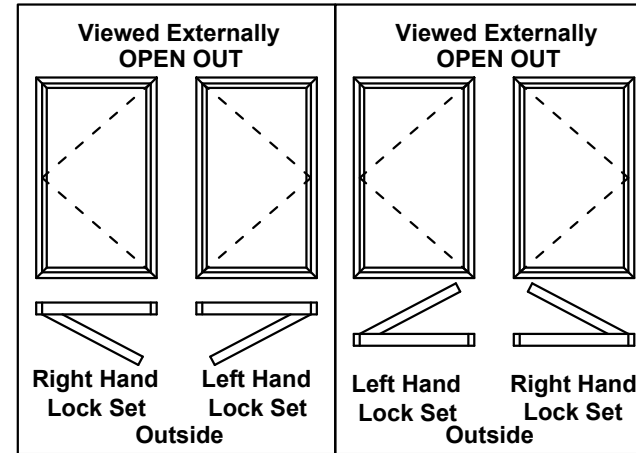
Do Not Scale From This Drawing

Door Locking & SZ Hardware Options

Handle With Large Backplate Guide

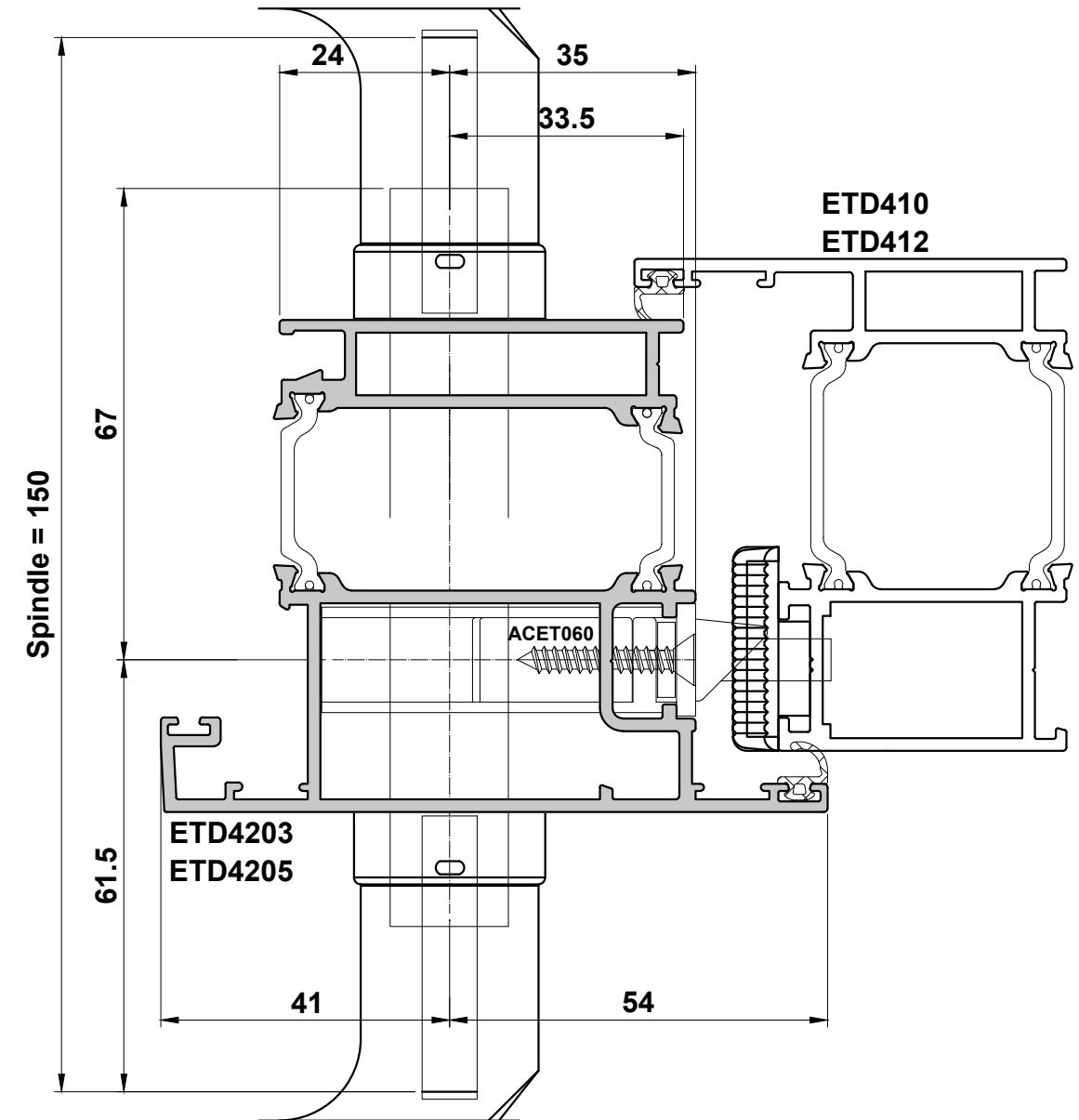
Ext. Handle	Int. Handle	Spindle	Cylinder	Screw
ACSZ800	ACSZ801 ACSZ803 ACSZ830	ACMX409Sq. Spindle 150mm	ACMX035 Half Cylinder	ACMX861 M5 x 75mm
ACSZ802	ACSZ803 ACSZ830		ACCY3560S3 35/60 Cylinder	
ACSZ400 + 2 x ACVS061	ACSZ803 ACSZ830	ACMX008 Sq. Spindle 60mm	ACCY3560S3 35/60 Cylinder	ACVS061 M5 x 40mm

Keep Handing Guide



Handle with Small Backplate Guide

Ext. Handle	Ext. Escutcheon	Int. Handle	Int. Escutcheon	Spindle	Cylinder	Screw	Rivnuts
ACSZ837	ACSZ400	ACSZ836	ACMX208	ACMX409Sq. Spindle 150mm	ACCY3560S3 ACMX0035	WCA134 M5 x 20mm	ACUN3501 M5
	ACSZ400			ACMX008 Sq. Spindle 60mm	ACCY3560S3 ACMX0035	WCA134 M5 x 20mm	ACUN3501 M5
ACSZ837	ACSZ400	ACSZ827		ACMX409Sq. Spindle 150mm	ACCY3560S3 ACMX0030	WCA134 M5 x 20mm	ACUN3501 M5



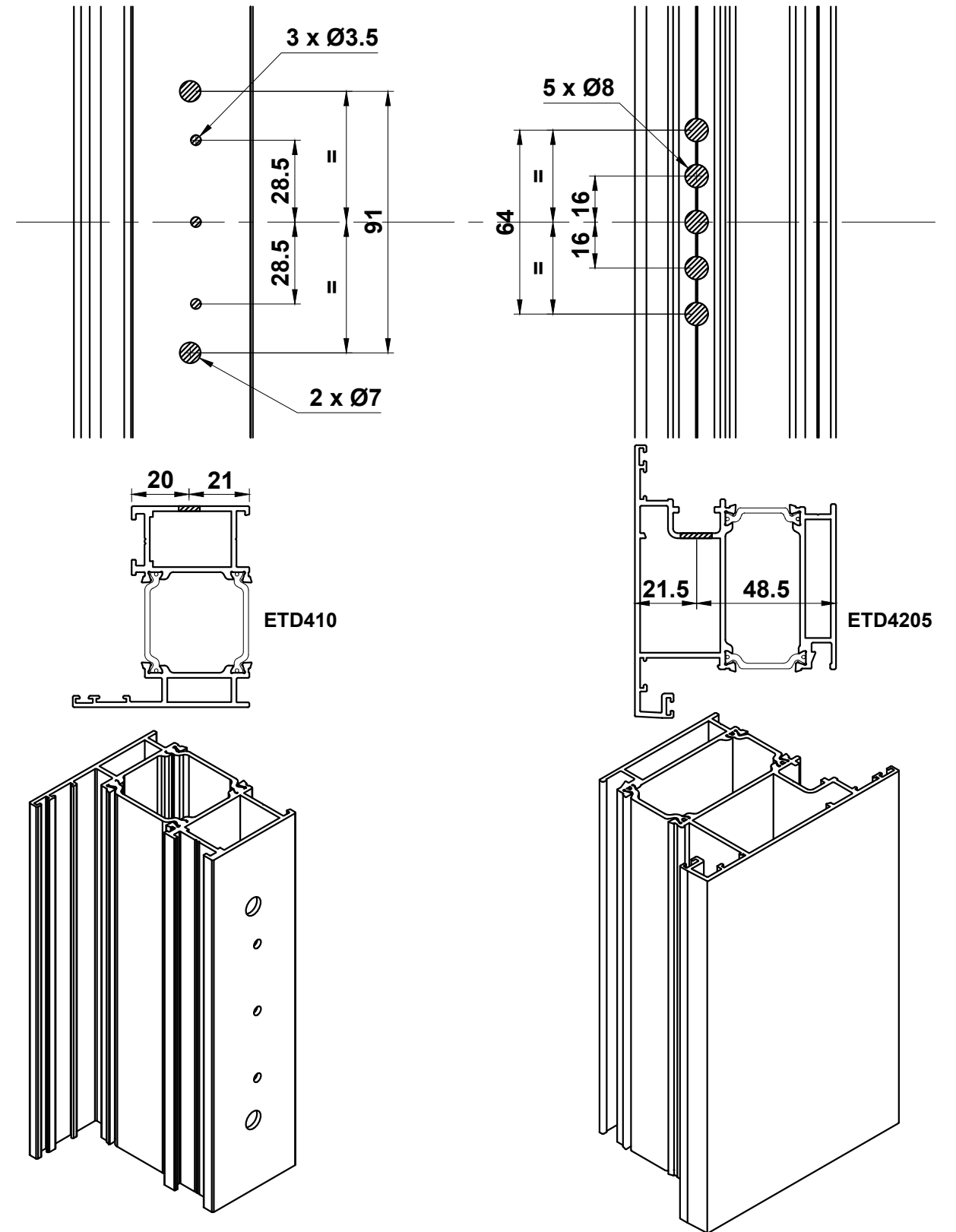
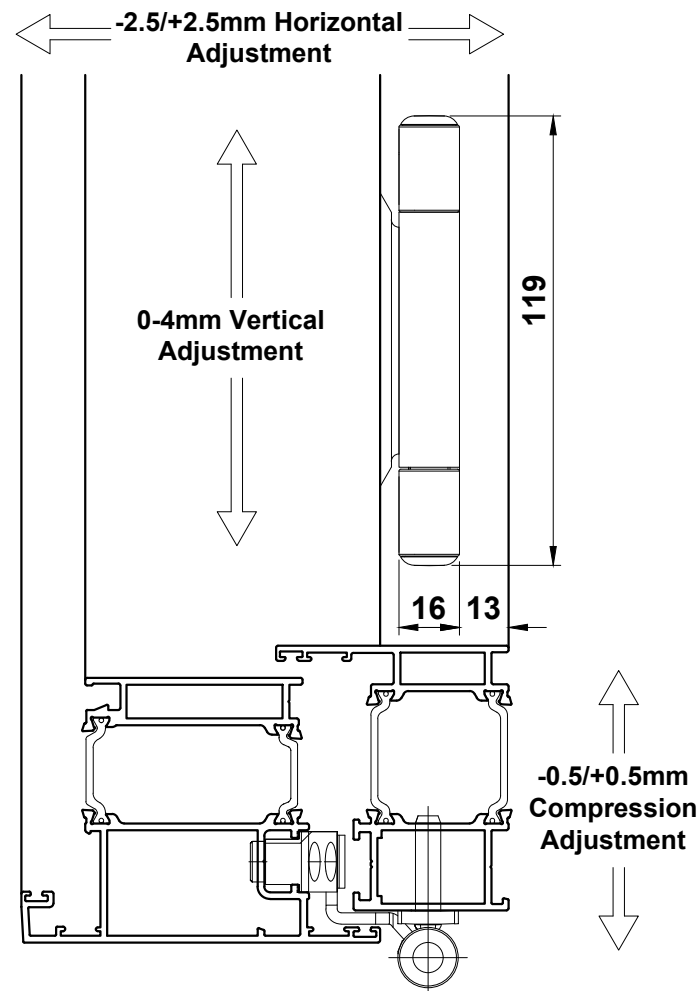
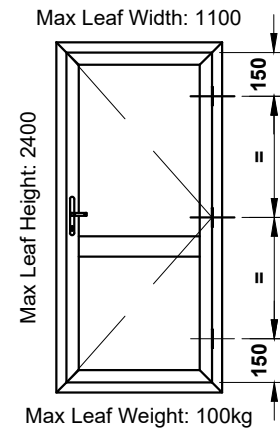
Spindle = 150

- 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

**ACUL250 Hinge Preparation**



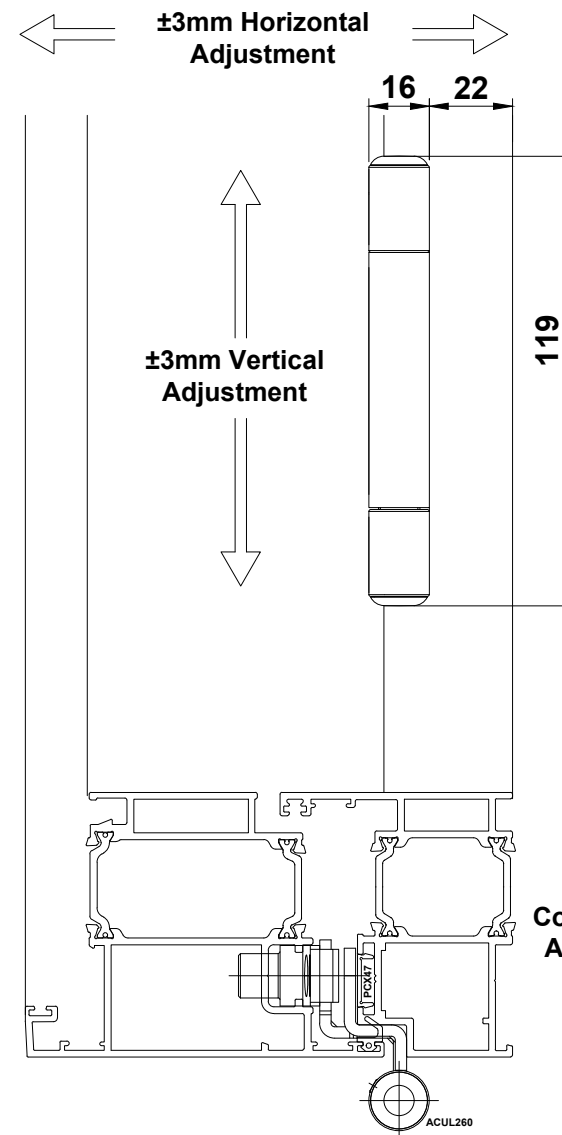
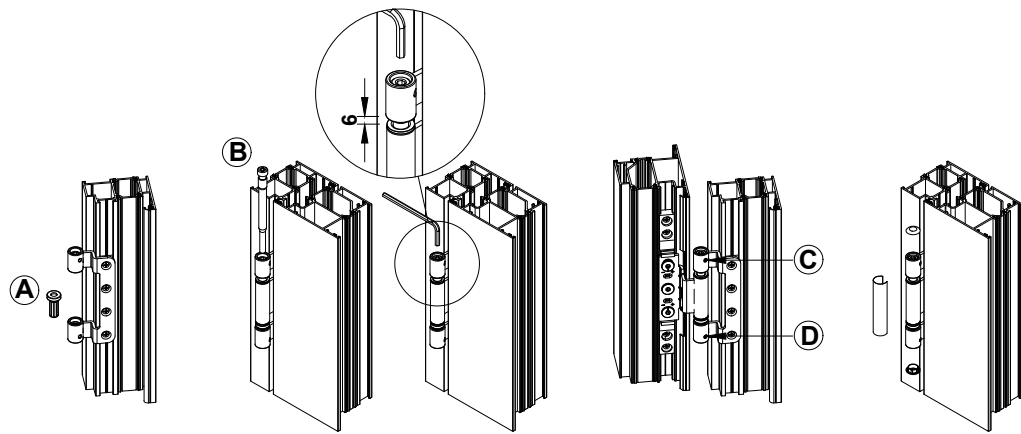
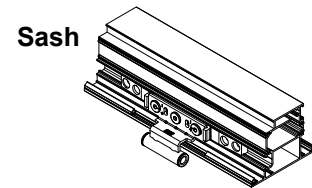
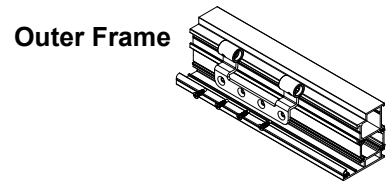
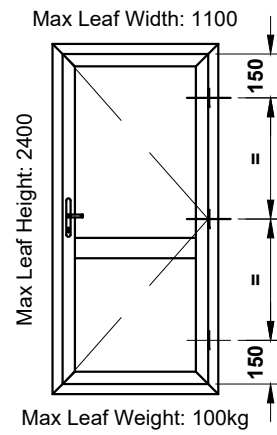
**Fitting Instructions:**

(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.

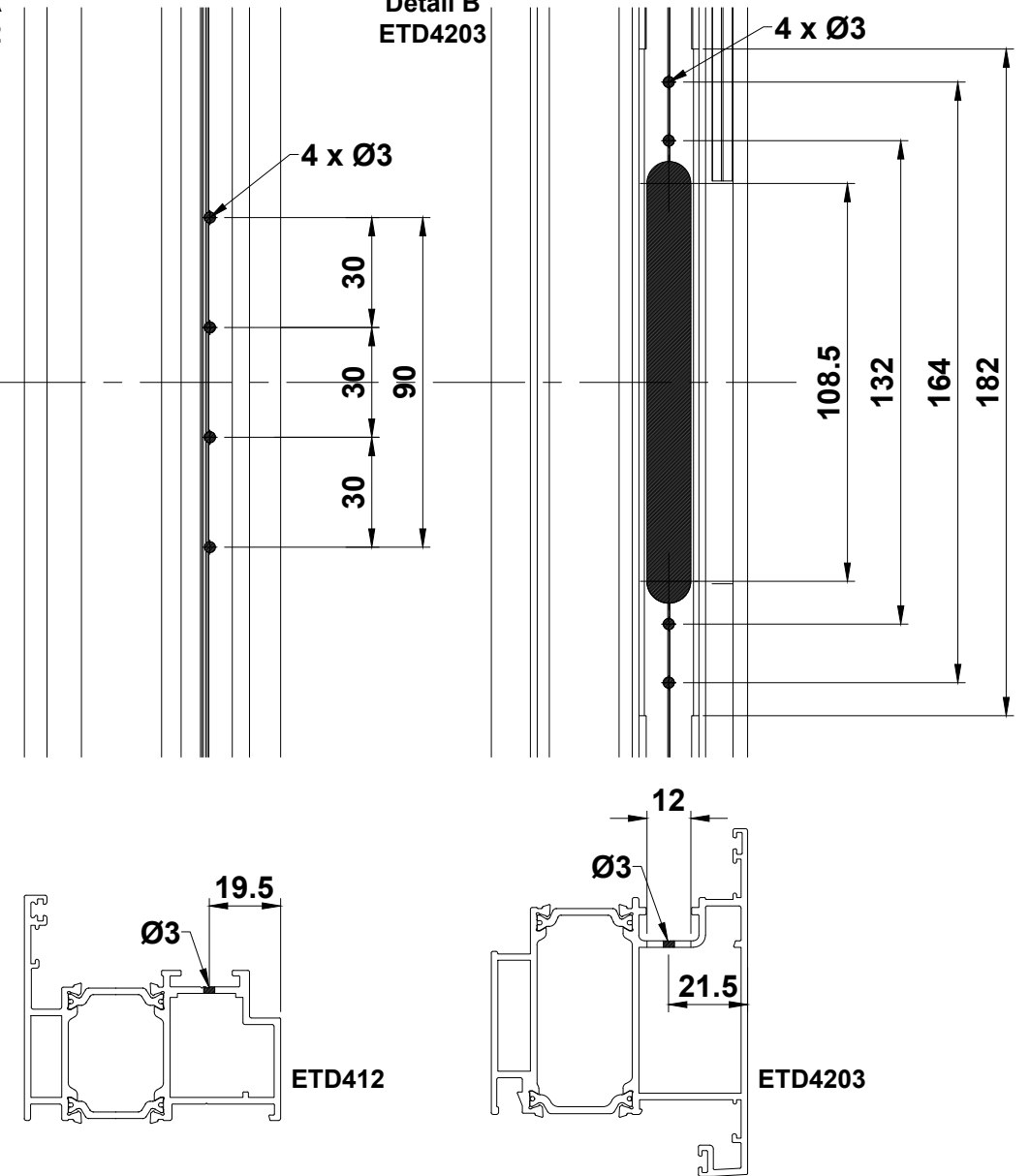
Do Not Scale From This Drawing

**ACUL260 Hinge Preparation**



Detail A  
ETD412

Detail B  
ETD4203



**Fitting Instructions:**

1. Measure and mark the hinge centrelines on the sash & outer frame
2. Mark, drill & machine to the dimensions shown in details A & B
3. Fasten the outer frame hinge part using 4 x ACUN3512 screws
4. Fasten the sash hinge part using 4 x ACUN3512 screws ensuring the grub screws are positioned towards the door sash
5. Using the outer frame hinge part as a guide, remove excess gasket from the sash
6. Insert Bush (A) into the bottom ring
7. Insert the sash into the frame and screw in the pin (B) with a 4mm Allen Key until a 6mm gap is reached
8. Open the sash and screw in the security screws (C) & (D)
9. Fit cover and insert caps



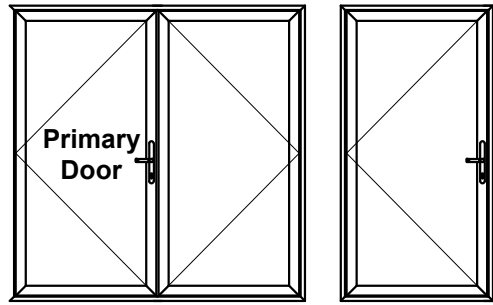
**ACUN3512**  
No.8 x 32 CSK SS  
Self Tapping Screw

Do Not Scale From This Drawing



**Lock Overview of Single and Double Doors**

**Finger Bolt Locking Options**

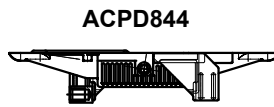


**Single & Primary Door Lock Selection**

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

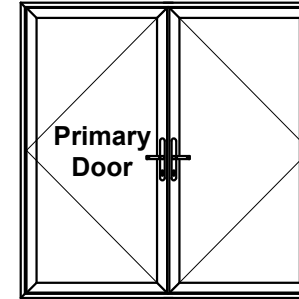
\*Any doors above 2450mm are above the tested limit.

**Secondary Door Accessory Selection**

35mm Backset Shootbolt Adaptor	Bottom 10mm Dia Rod	Top 10mm Dia Rod		Keep	Shootbolt Guide
		Overall Size	Rod Part No.		
 ACPD844	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**



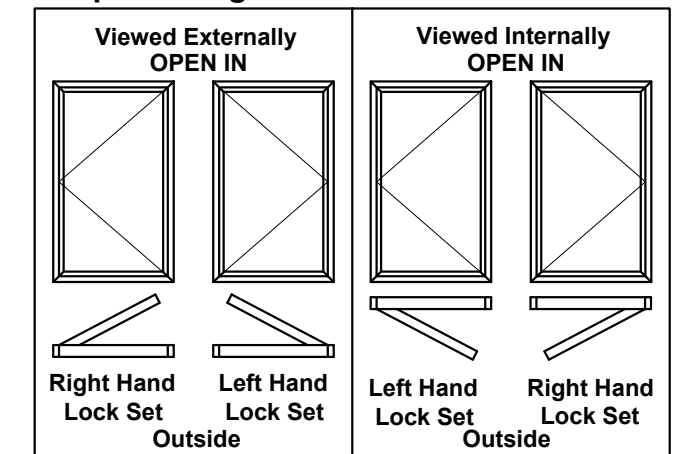
**Double Handle Lift Lever Lock Option**

Overall Sash Height	Primary Door Lift Lever		Secondary Door Lift Lever	Double Door Keep	Shootbolts	Shootbolt Extensions
	Left	Right				
980-2450*	ACUL277	ACUL278	ACUL276	ACUL279	ACDV737 ACDV738	ACDV742 ACDV744

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

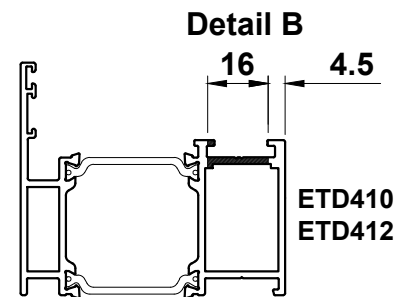
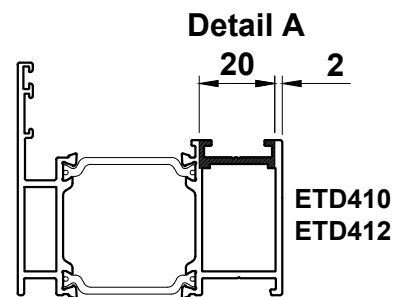
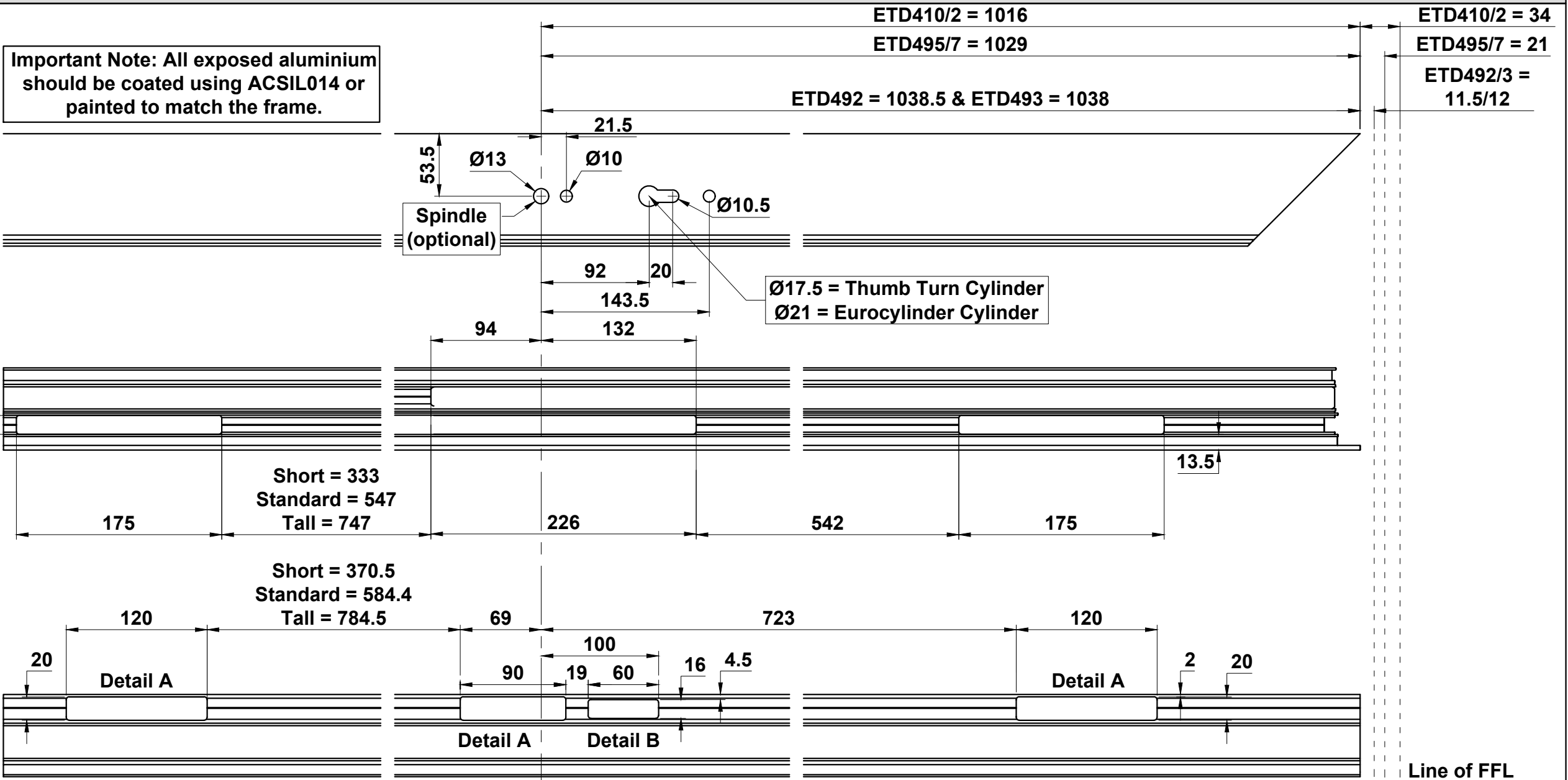
\*\*Please see page E17 for shootbolt layout.

**Keep Handing Guide**



Do Not Scale From This Drawing

Single Door Lock Preparation



Lock Kits

Height	Slam Lock		Key Wind		Lift Lever	
	Left Hand	Right Hand	Left Hand	Right Hand	Left Hand	Right Hand
Short	ACUL360	ACUL361	ACUL362	ACUL363	ACUL377	ACUL378
Standard	ACUL280	ACUL281	ACUL282	ACUL283	ACUL272	ACUL273
Tall	ACUL380	ACUL381	ACUL382	ACUL383	ACUL374	ACUL375

Do Not Scale From This Drawing



**Construction Drawings - Open Out**

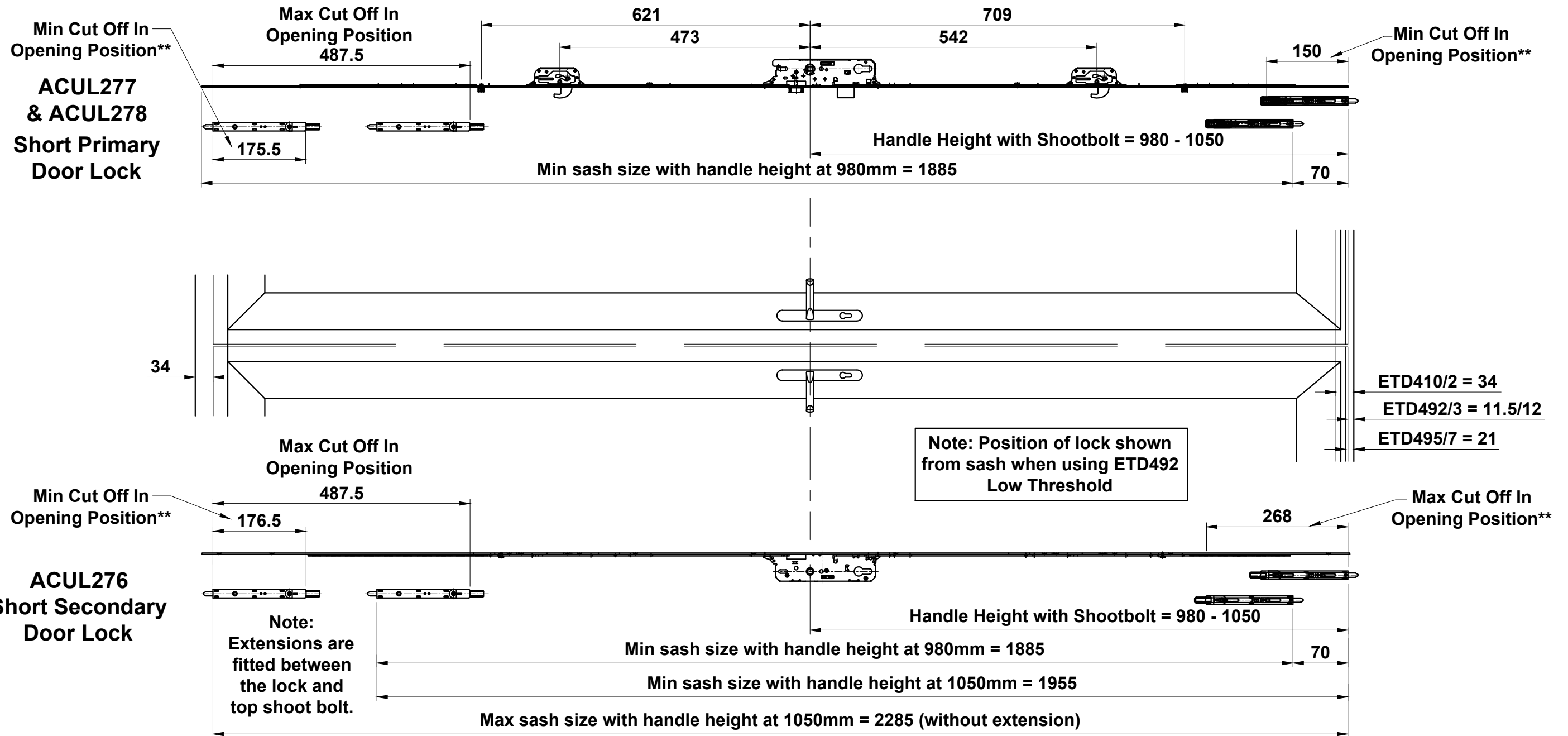
**Double Door Lift Lever**

Stepped		Flush	
Shootbolt Layout.....	E80	Shootbolt Layout.....	E80
Full Frame Preparation.....	E81 - E82	Full Frame Preparation.....	E83 - E84
Low Rebate Preparation.....	E85 - E86	Low Rebate Preparation.....	E87 - E88
Low Ramp Preparation.....	E89 - E90	Low Ramp Preparation.....	E91 - E92

Do Not Scale From This Drawing

**Double Door Lift Lever Shootbolt Layout**

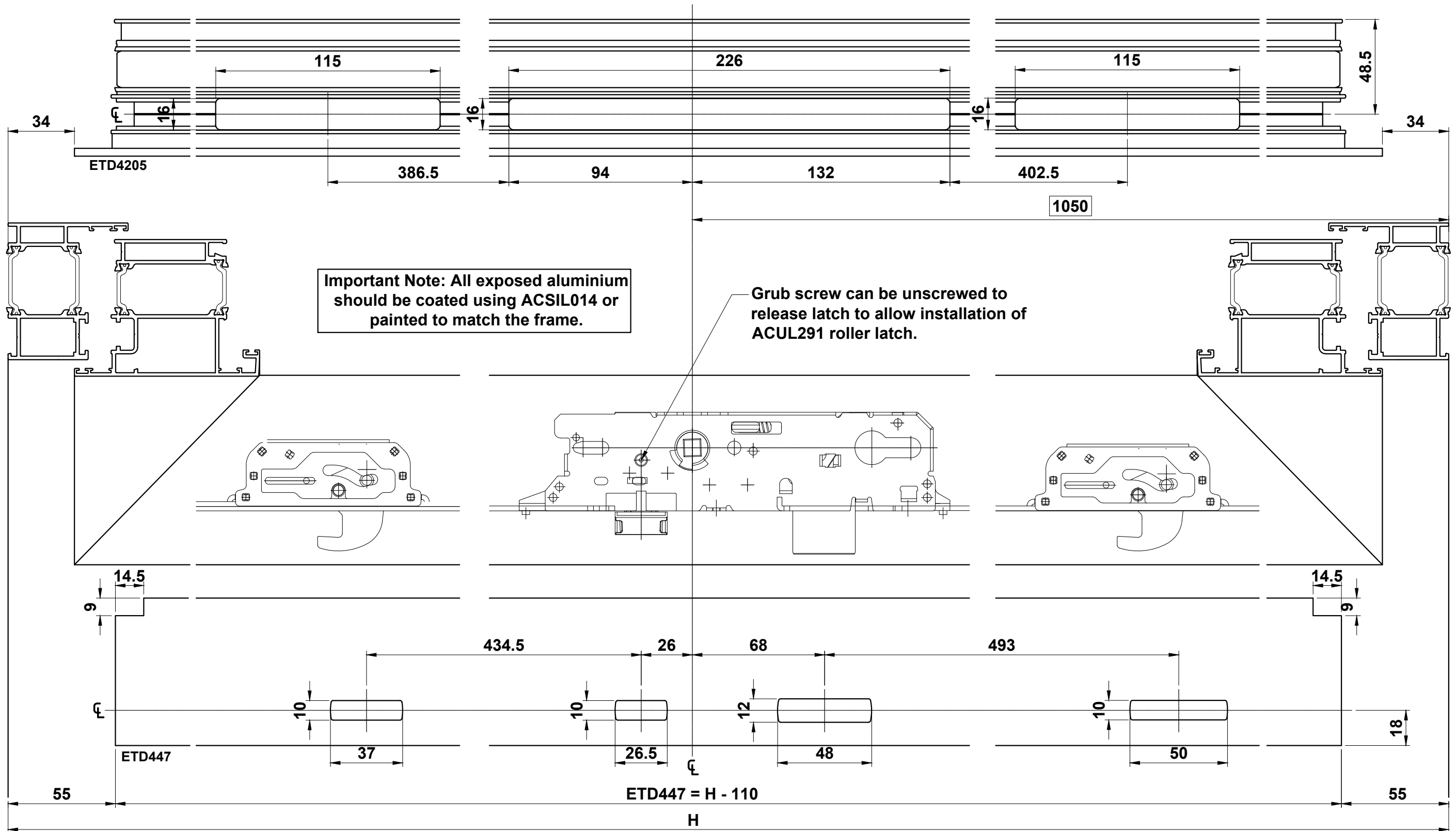
Note: ACDV742 & ACDV744 extensions may be used with all locks



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

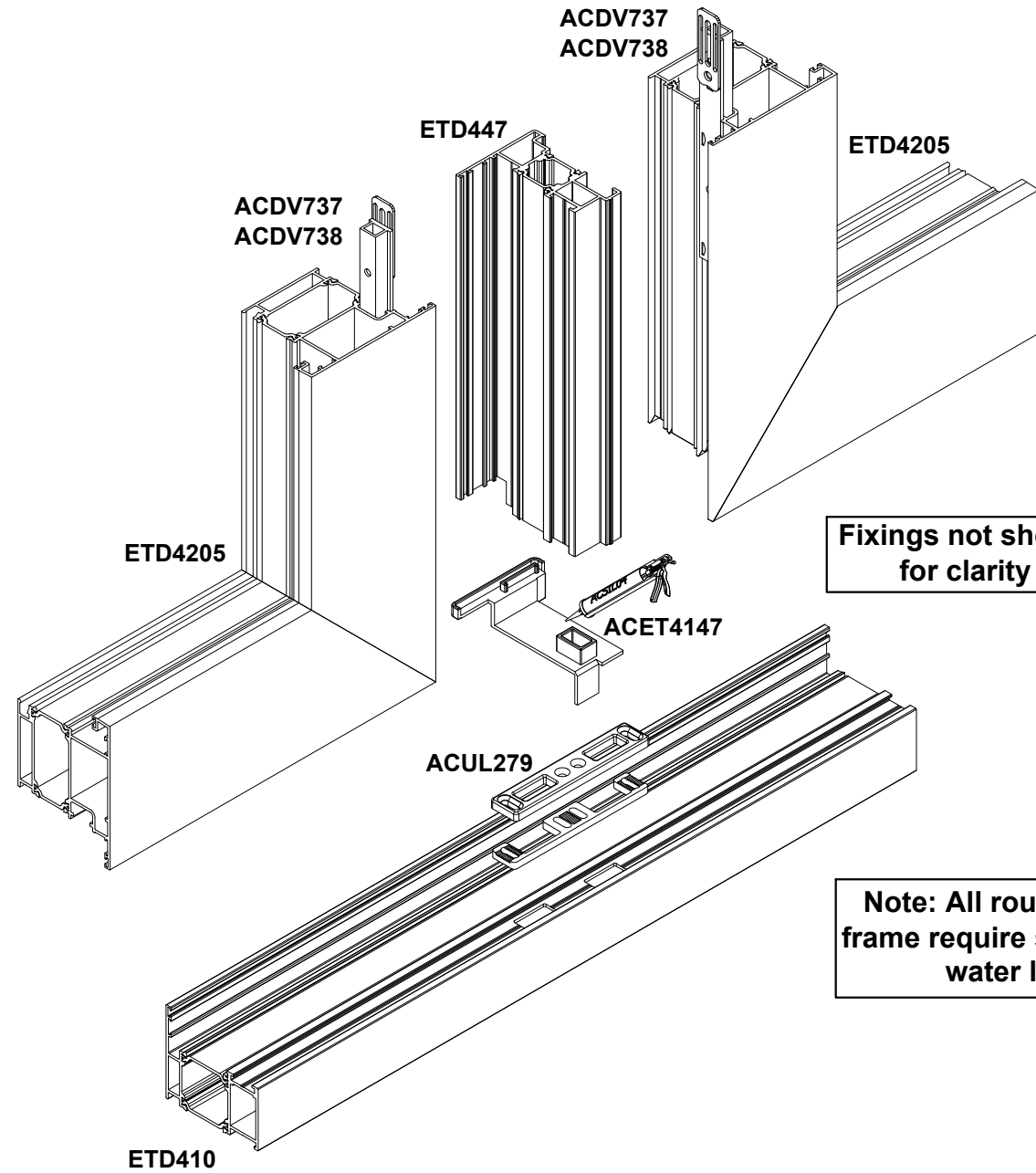
Do Not Scale From This Drawing

**Double Door Lift Lever Lock Preparation for Full Frame**



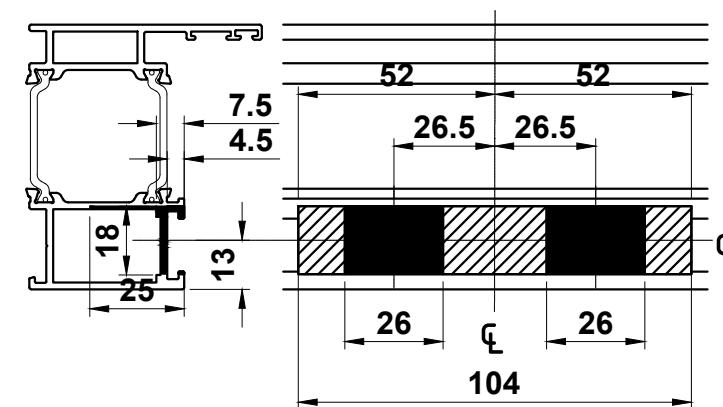
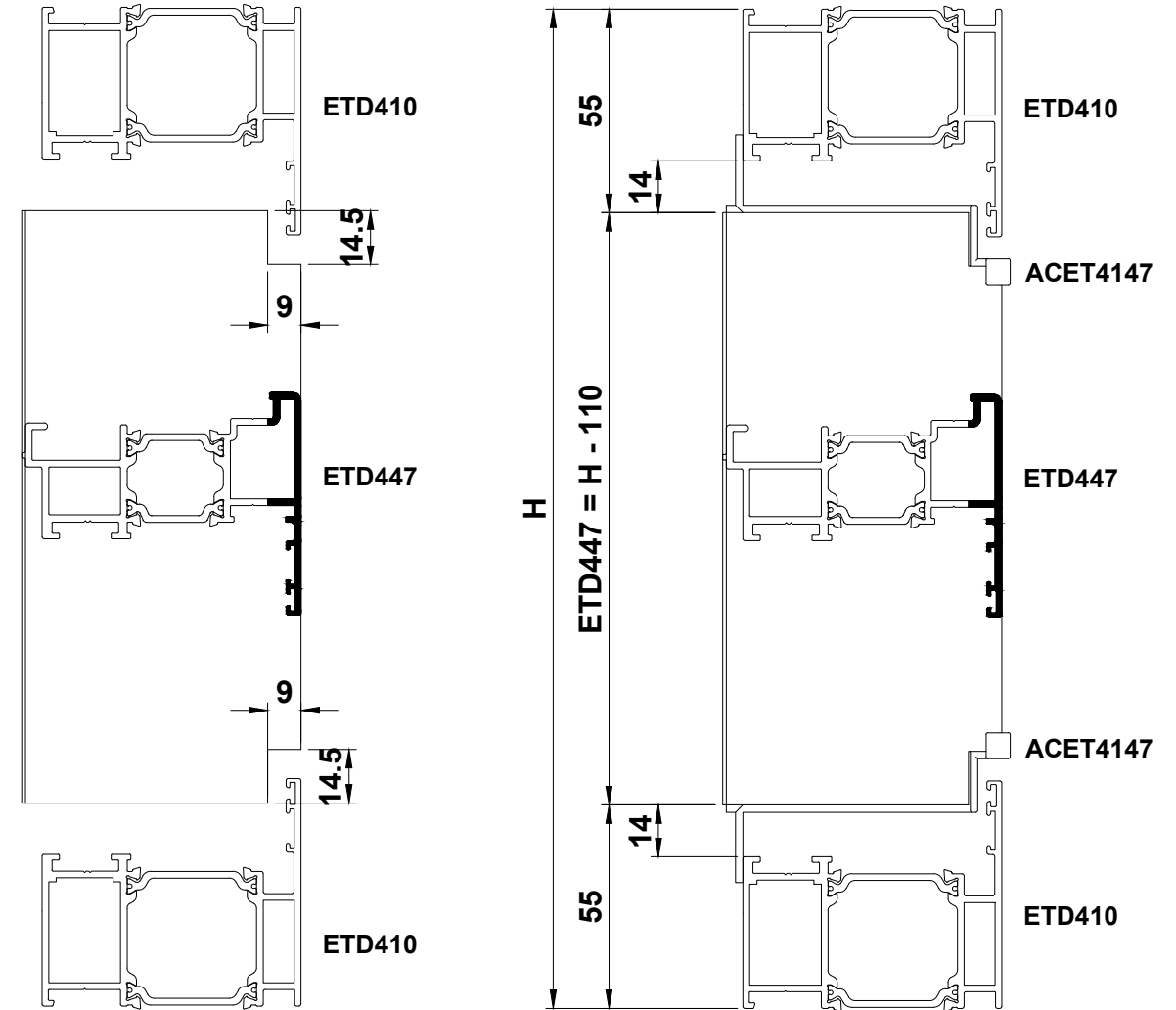
Do Not Scale From This Drawing

Double Door Lift Lever Meeting Stile Assembly for Full Frame



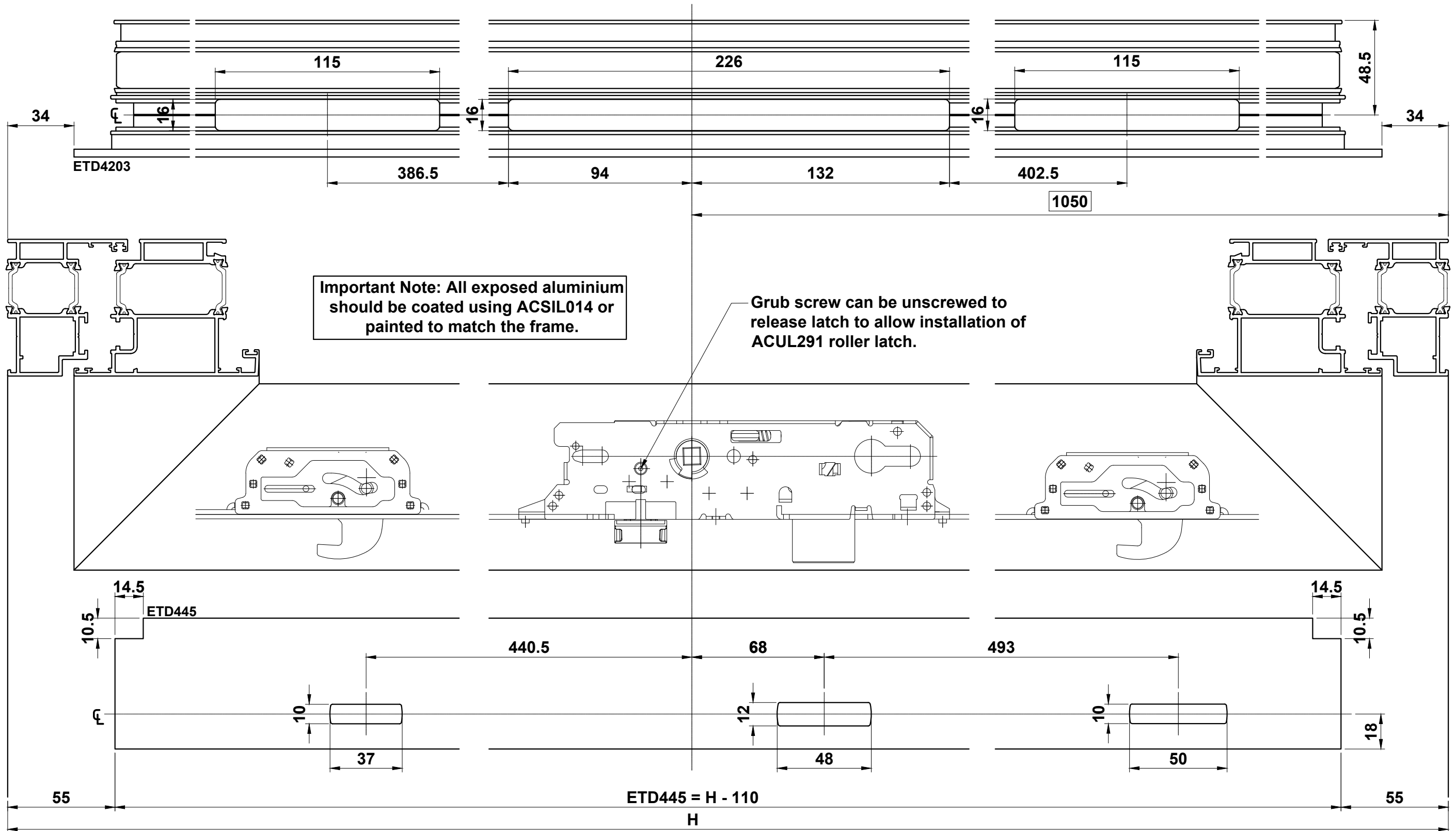
Fixings not shown for clarity

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



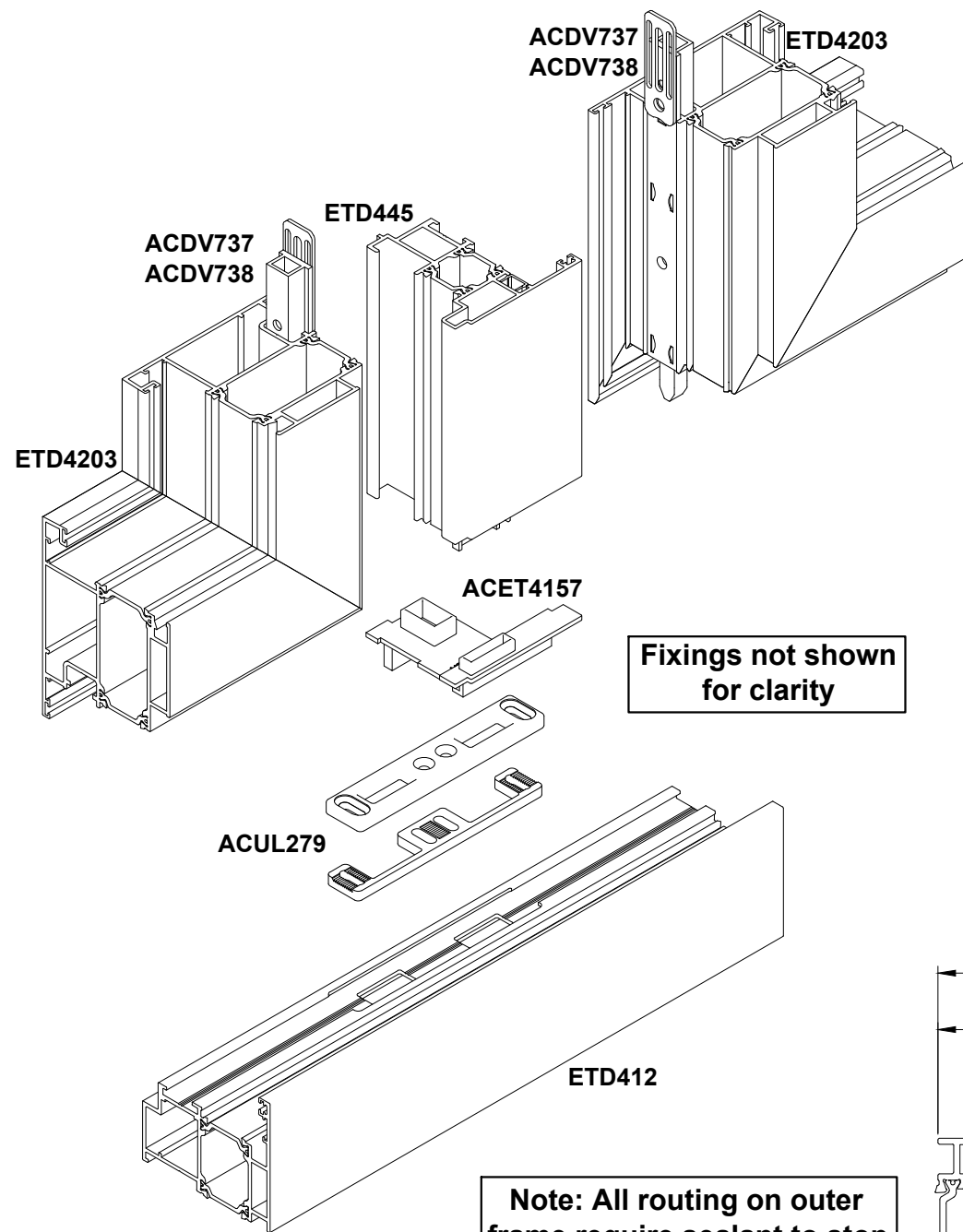
Do Not Scale From This Drawing

Flush Double Door Lift Lever Lock Preparation for Full Frame



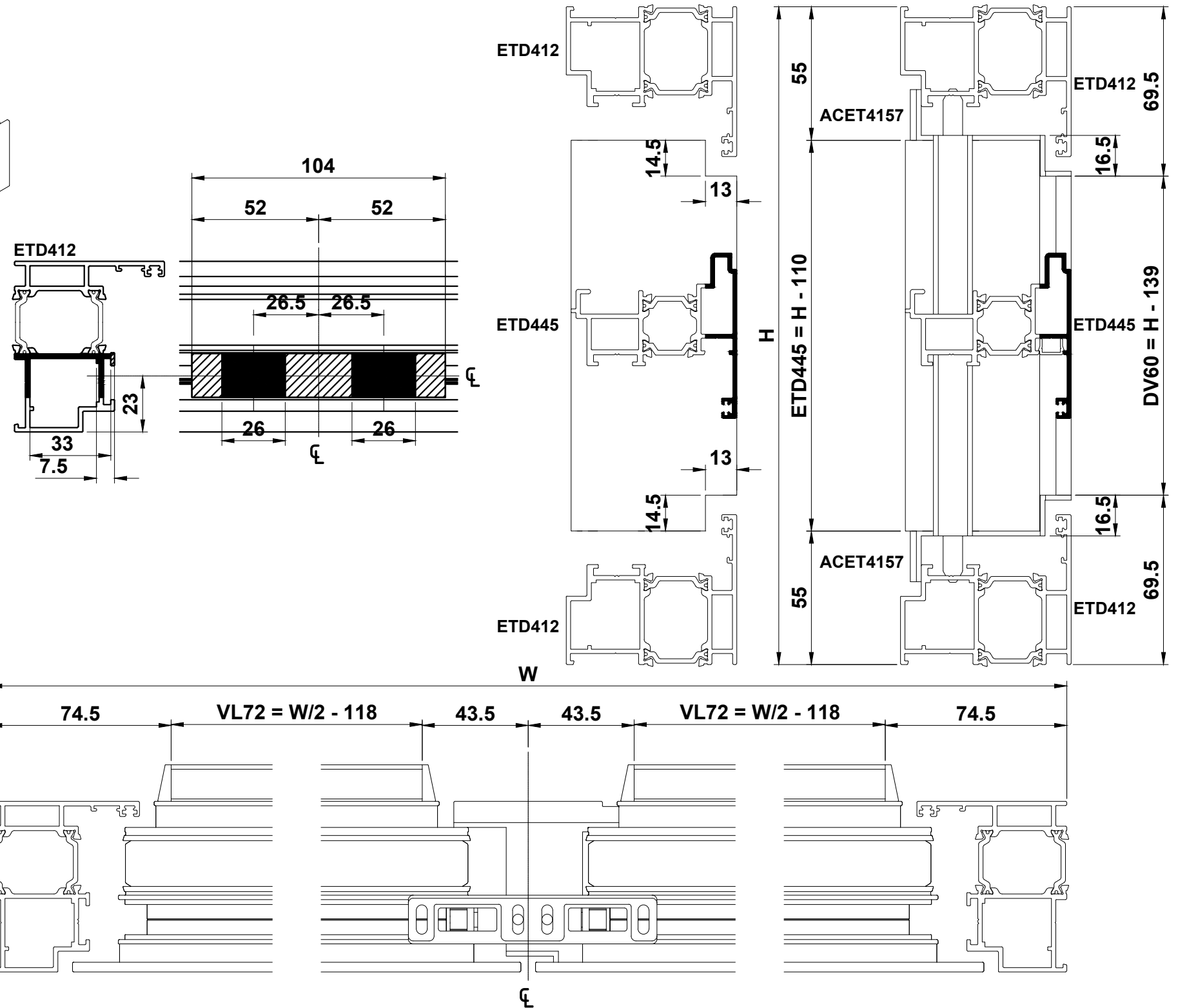
Do Not Scale From This Drawing

**Flush Double Door Lift Lever Meeting Stile Assembly for Full Frame**



Fixings not shown for clarity

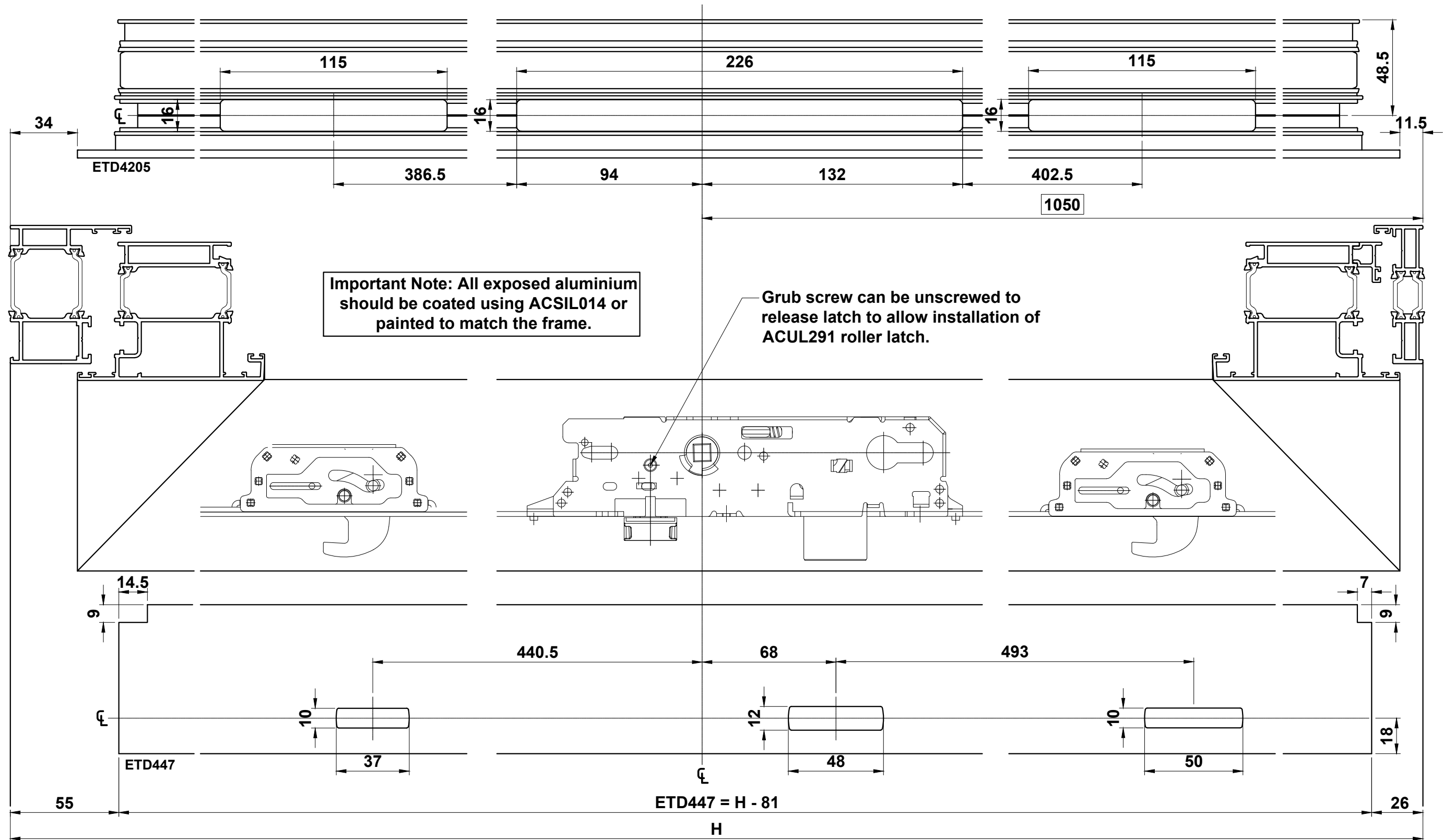
Note: All routing on outer frame require sealant to stop water leakage



Do Not Scale From This Drawing

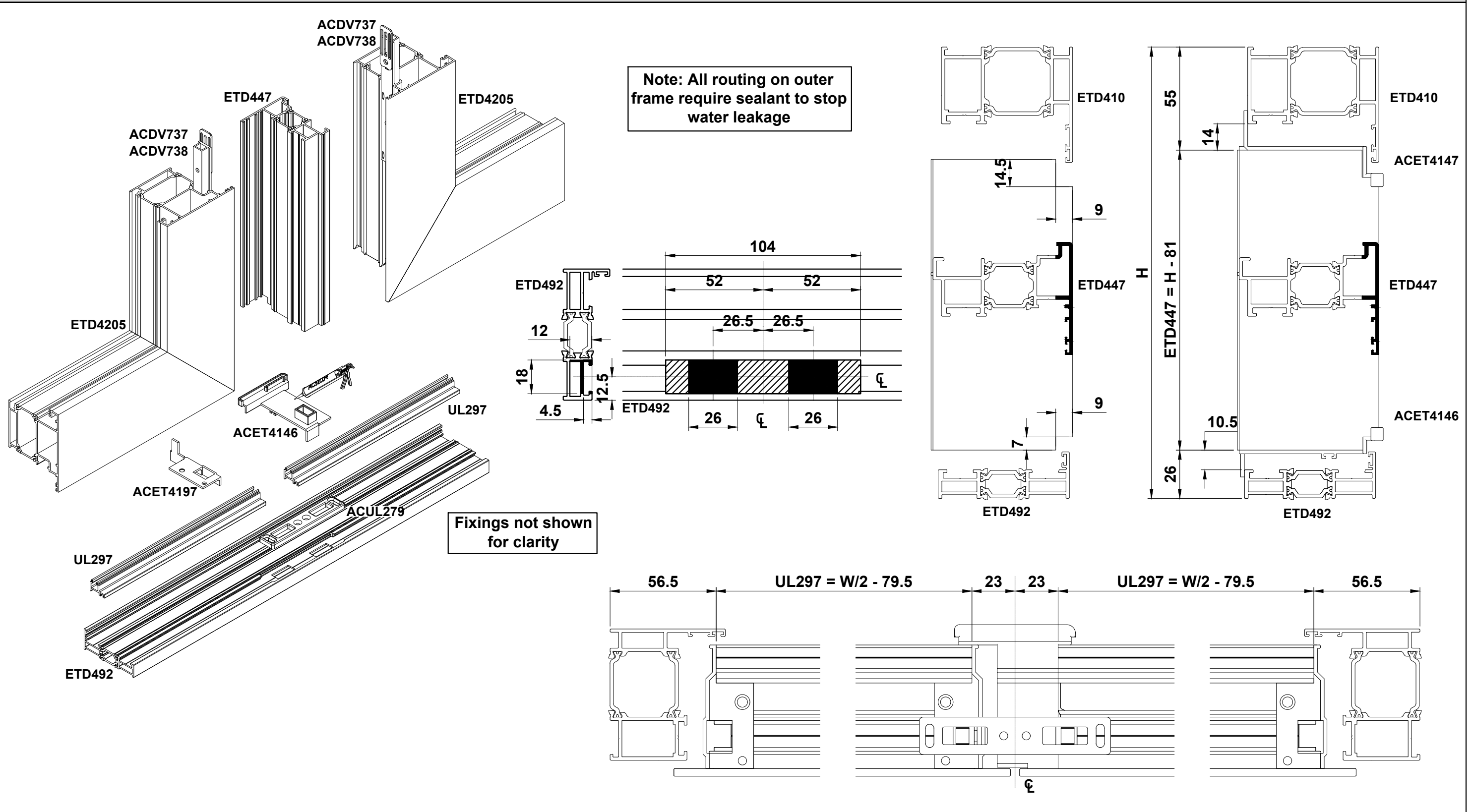


**Double Door Lift Lever Lock Preparation for Low Rebate Threshold**

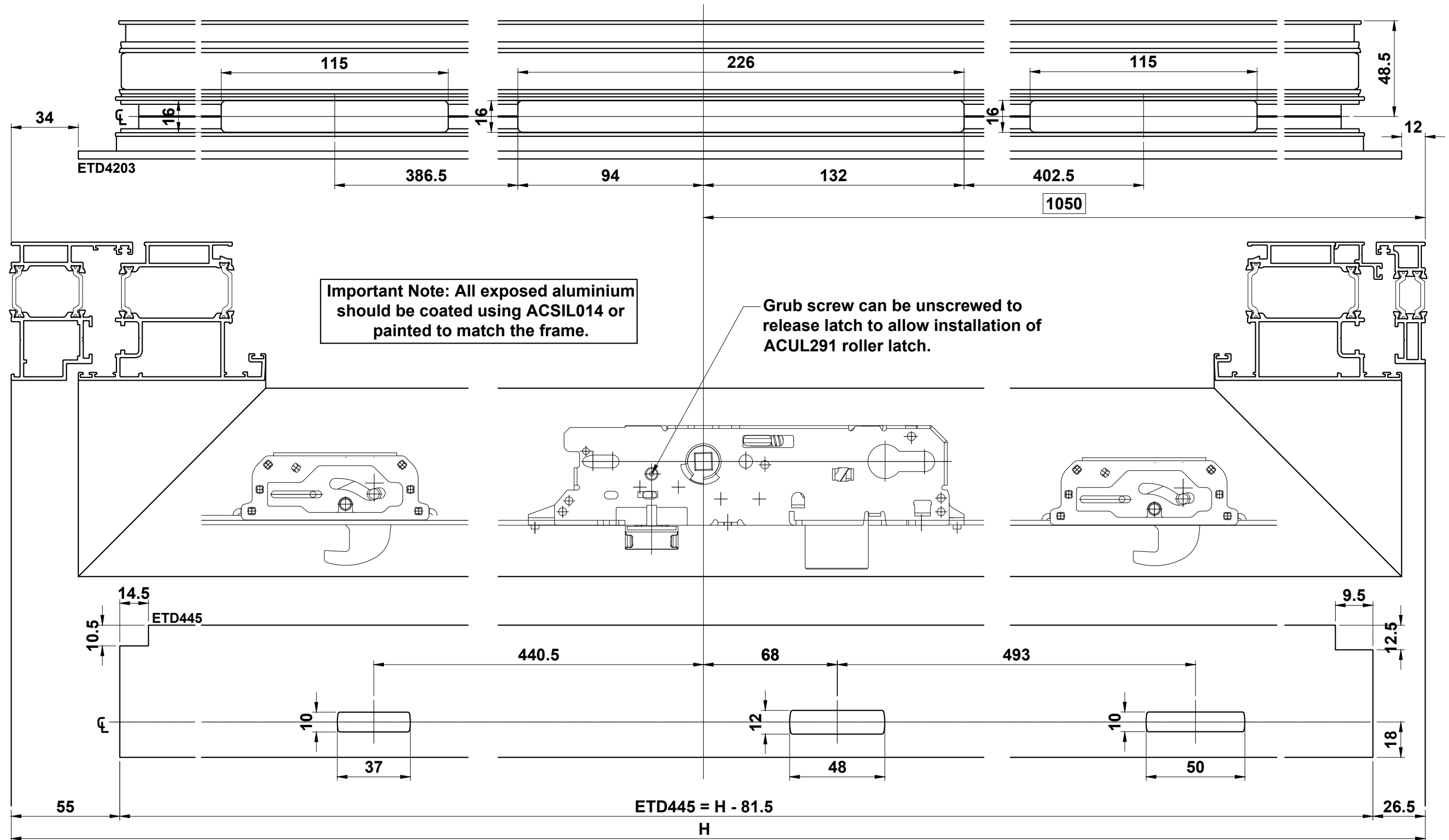


Do Not Scale From This Drawing

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

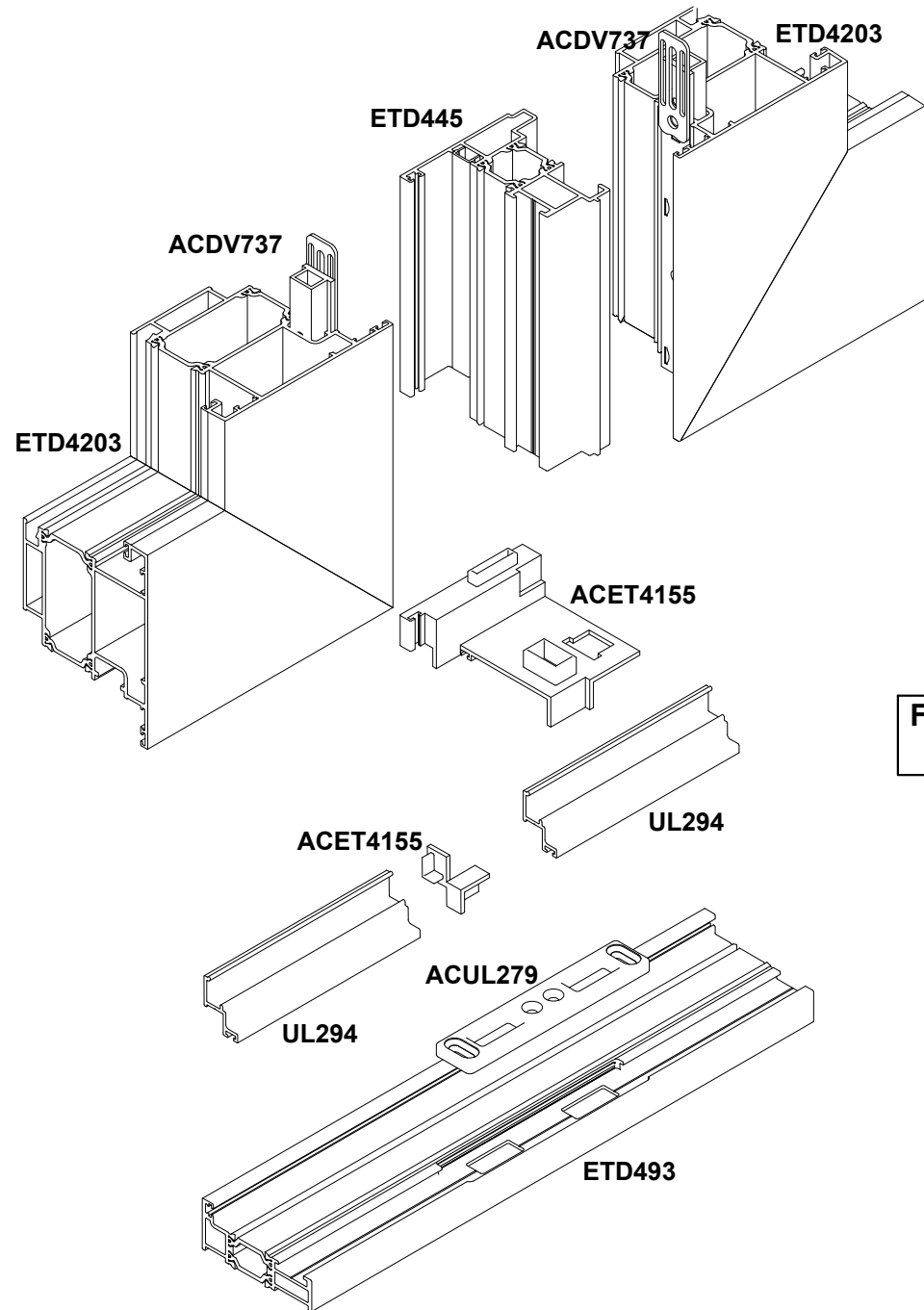


**Flush Double Door Lift Lever Lock Preparation for Low Rebate Threshold**

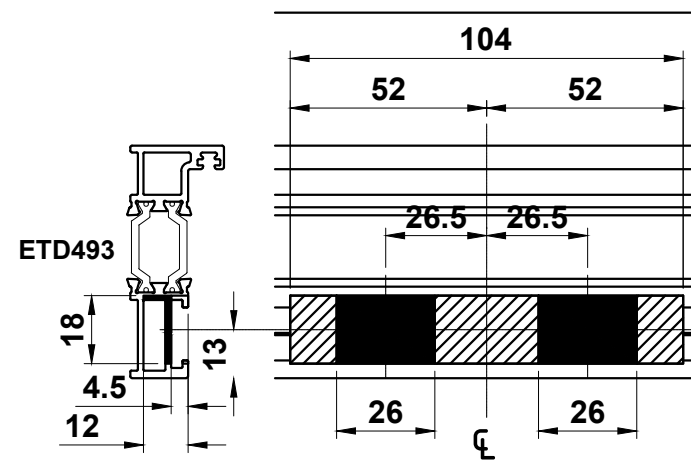


Do Not Scale From This Drawing

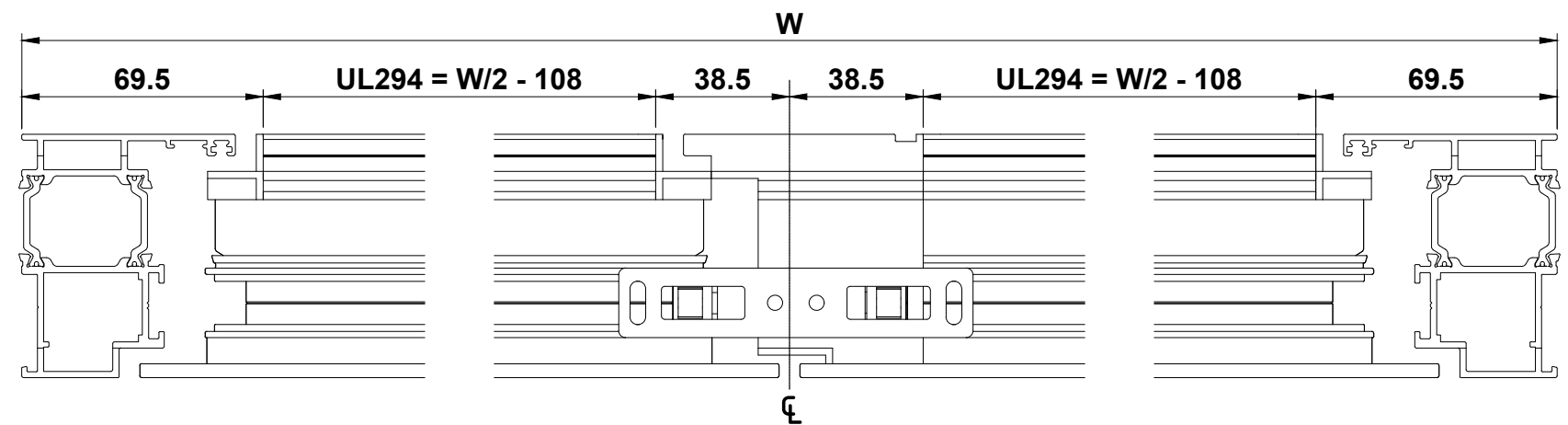
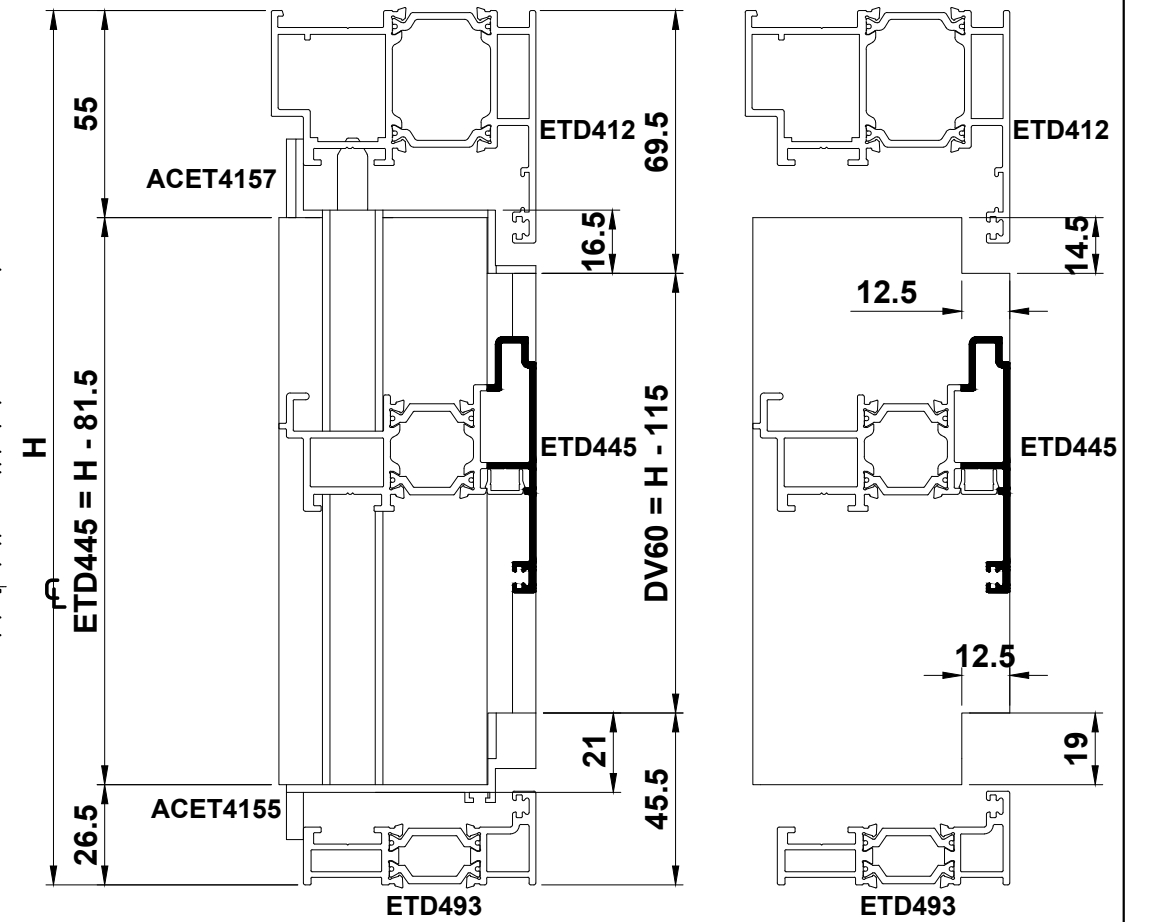
**Flush Double Door Lift Lever Meeting Stile Assembly for Low Rebate Threshold**



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

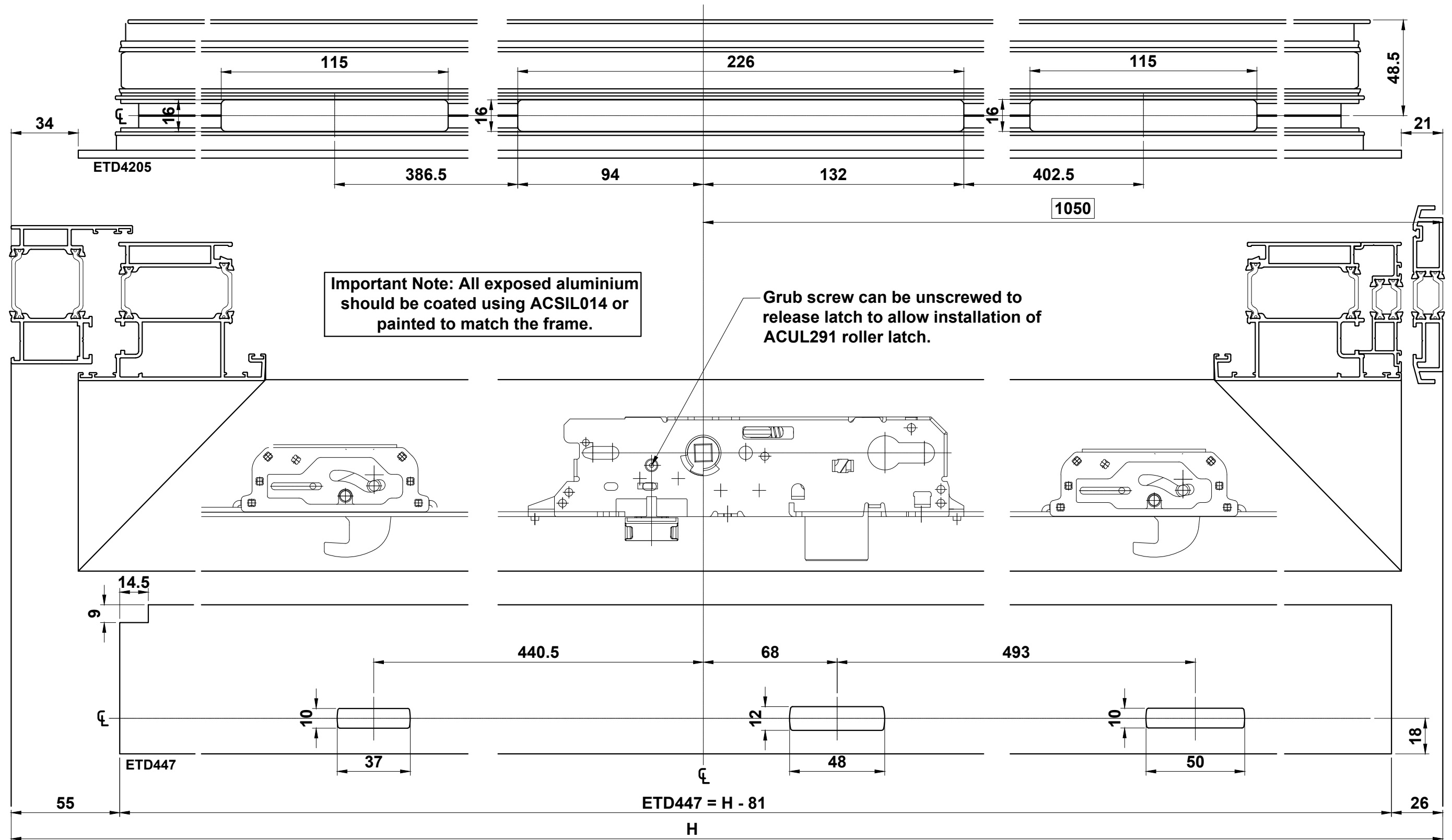


Fixings not shown for clarity



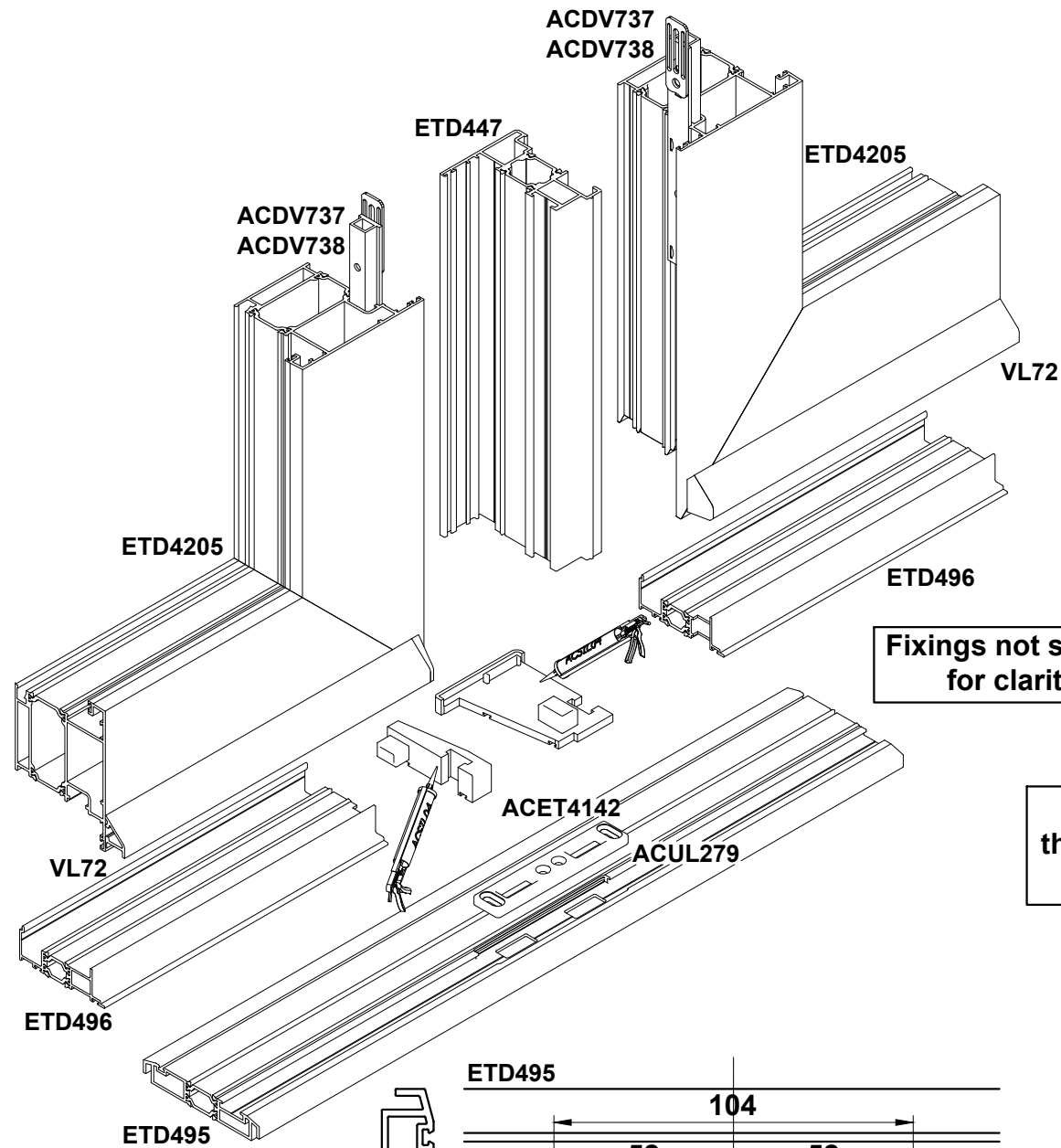
Do Not Scale From This Drawing

**Double Door Lift Lever Lock Preparation for Low Ramp Threshold**



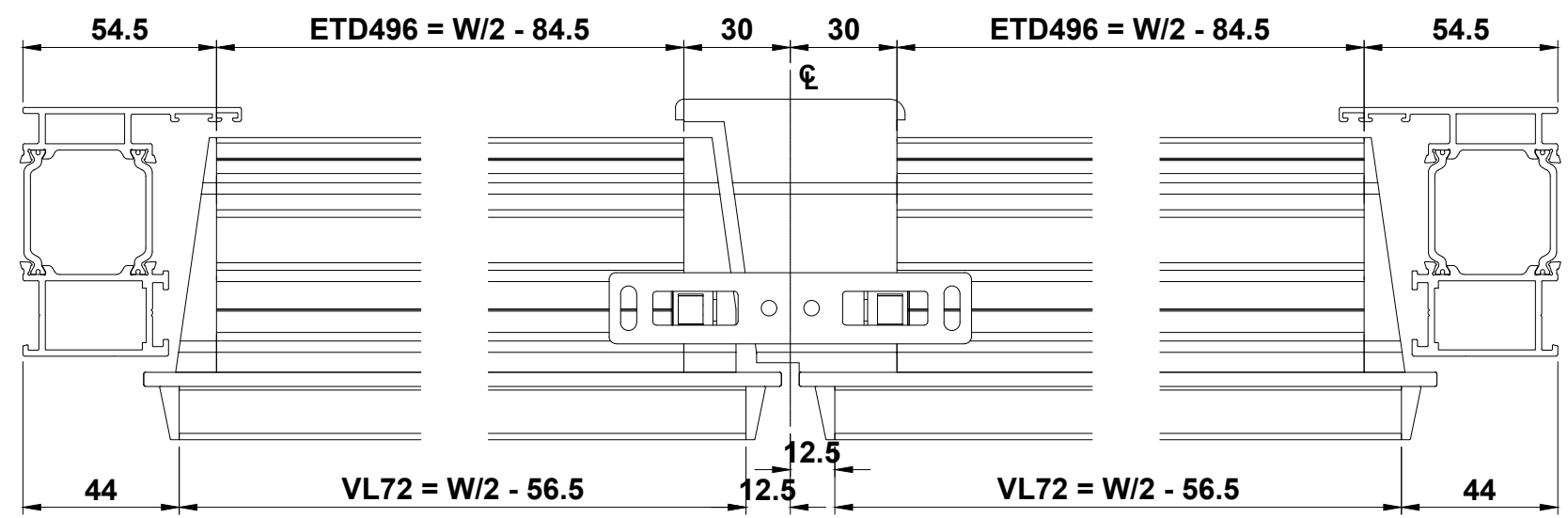
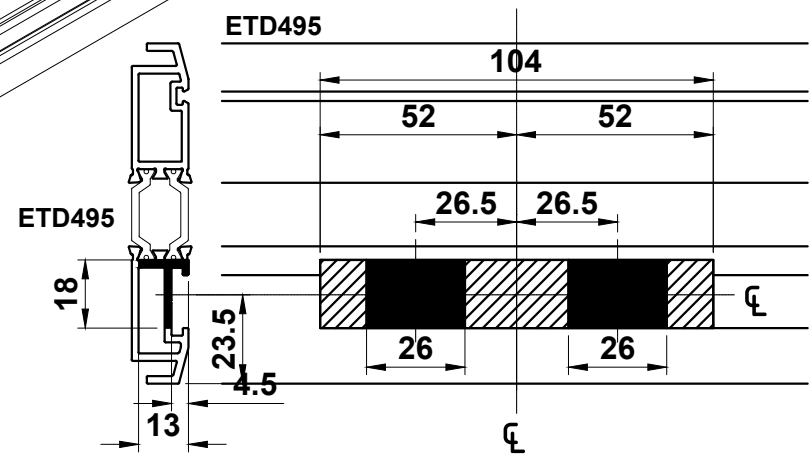
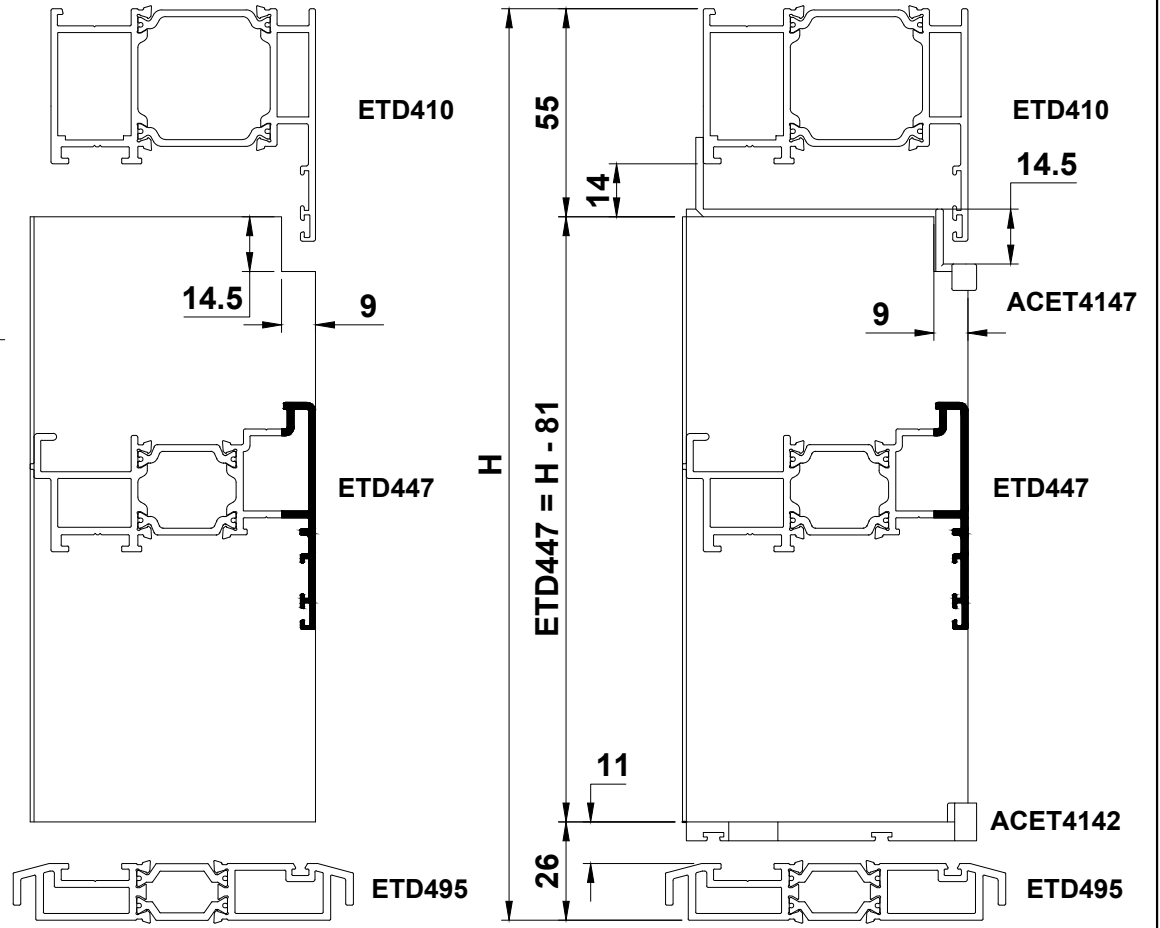
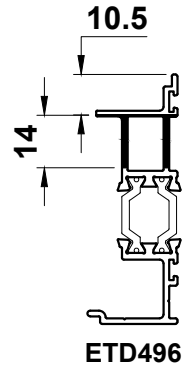
Do Not Scale From This Drawing

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



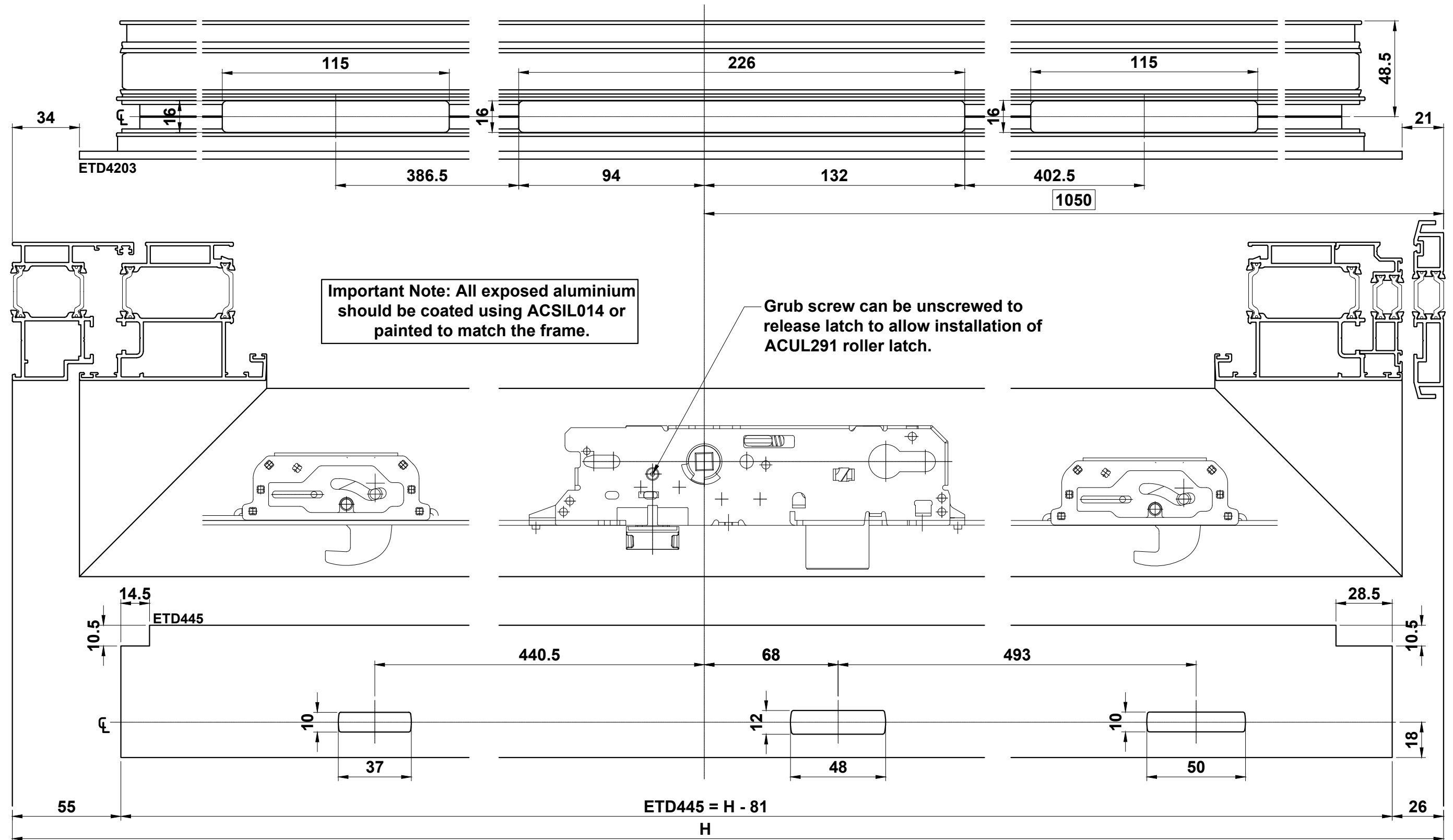
Fixings not shown for clarity

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



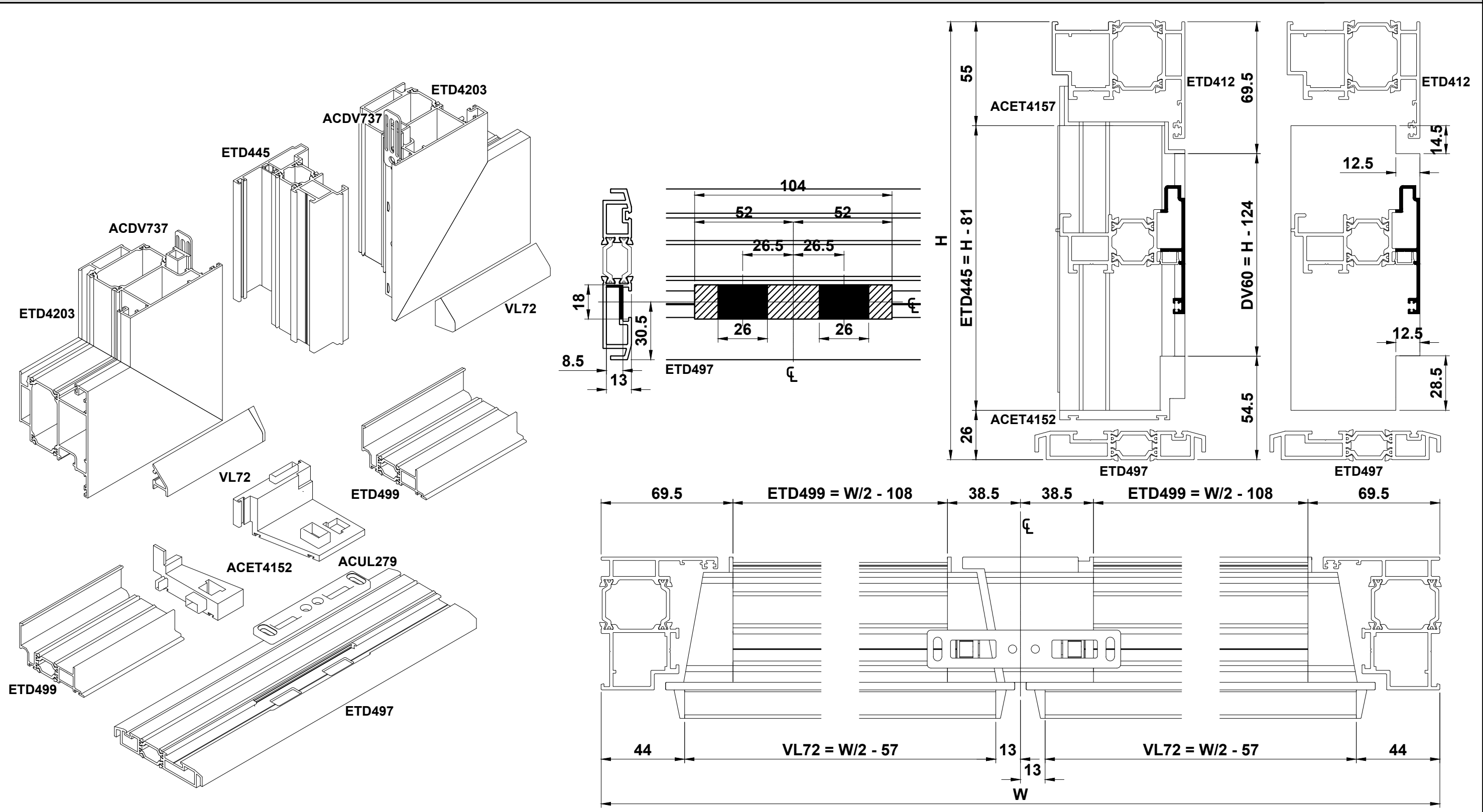
Do Not Scale From This Drawing

Flush Double Door Lift Lever Lock Preparation for Low Ramp Threshold



Do Not Scale From This Drawing

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



Do Not Scale From This Drawing



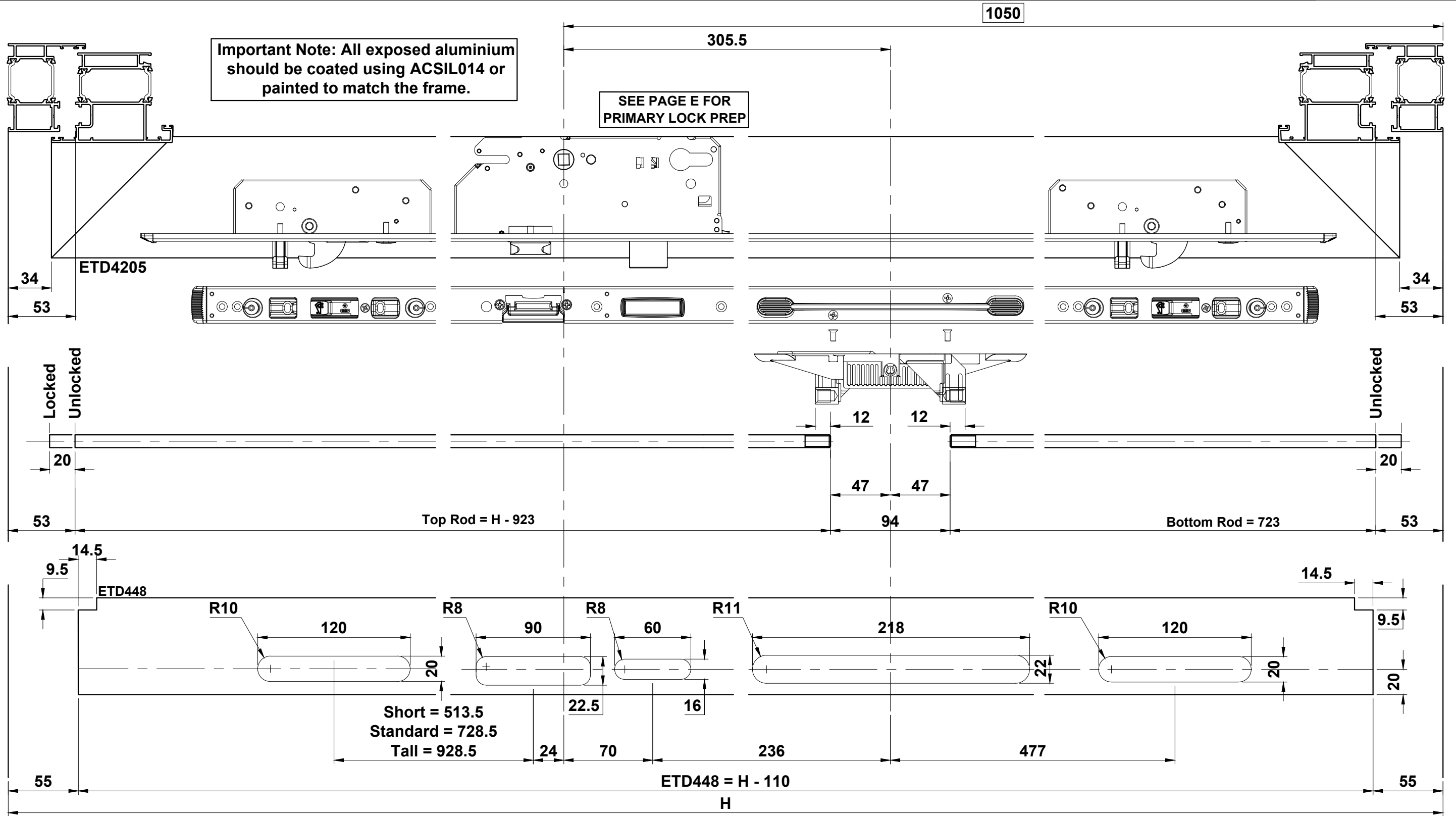


**Construction Drawings - Open Out**

**Double Door Finger Bolt**

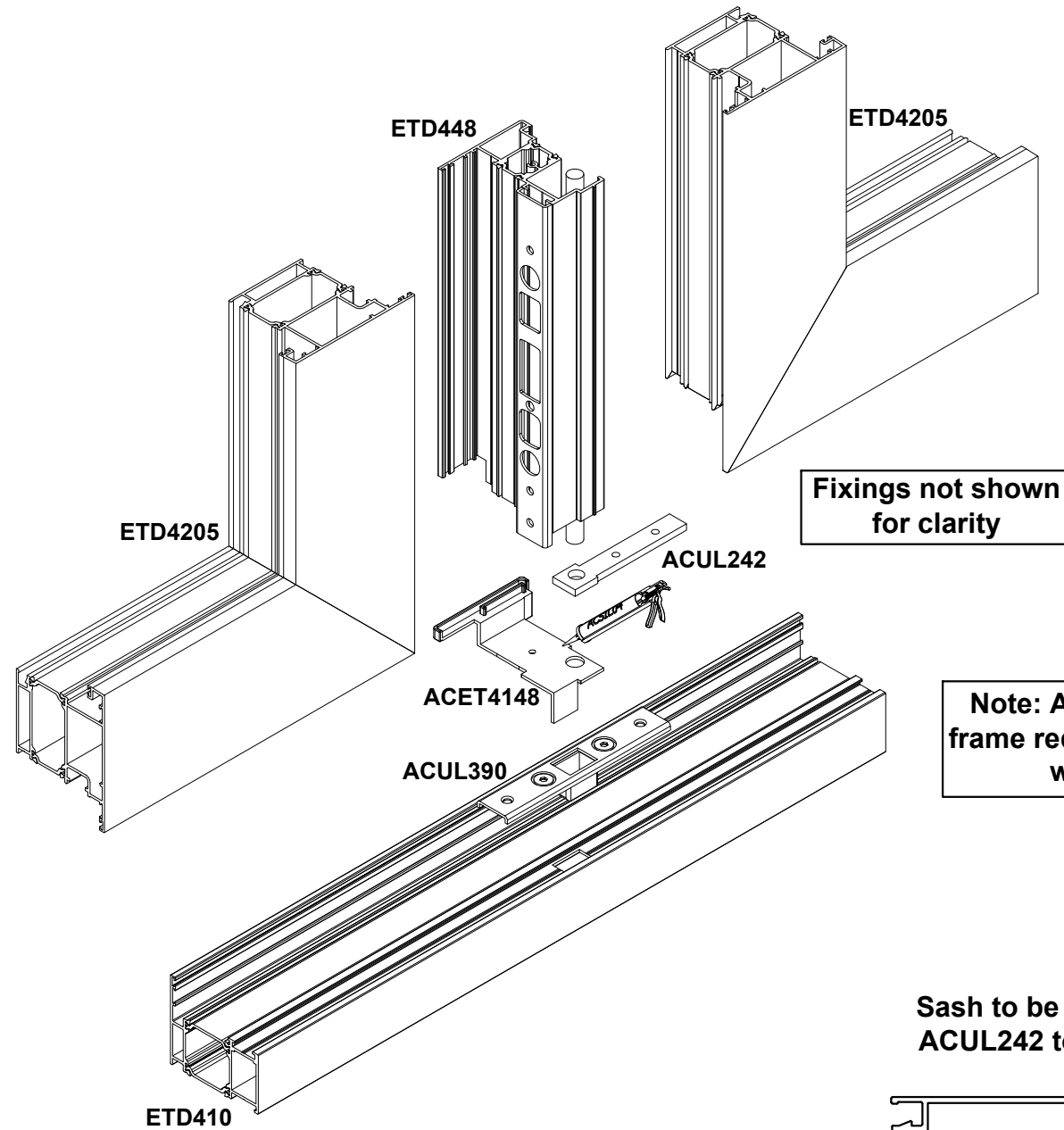
Stepped		Flush	
Full Frame Preparation.....	E94 - E95	Full Frame Preparation.....	E96 - E97
Low Rebate Preparation.....	E98 - E99	Low Rebate Preparation.....	E100 -E101
Low Ramp Preparation.....	E102-E103	Low Ramp Preparation.....	E104-E105

Double Door Finger Bolt Lock Preparation for Full Frame



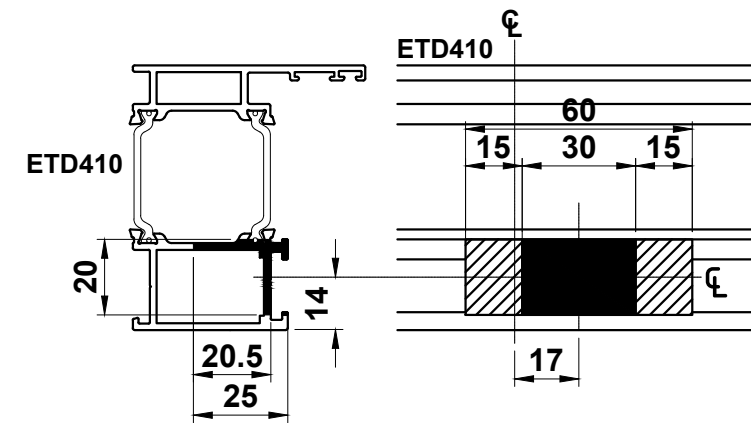
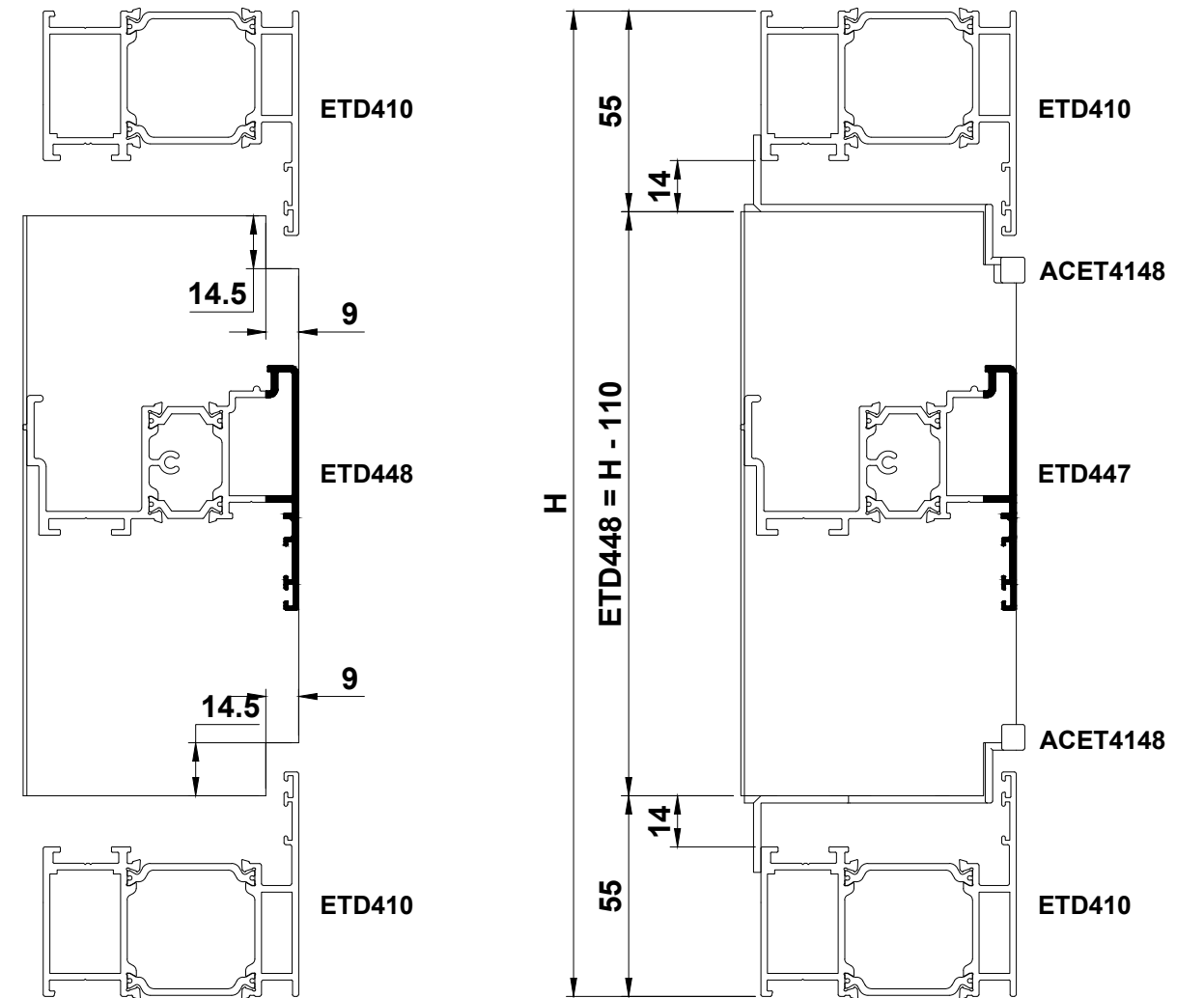
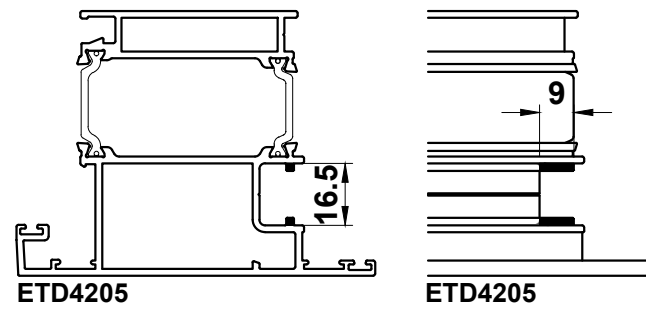
Do Not Scale From This Drawing

**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



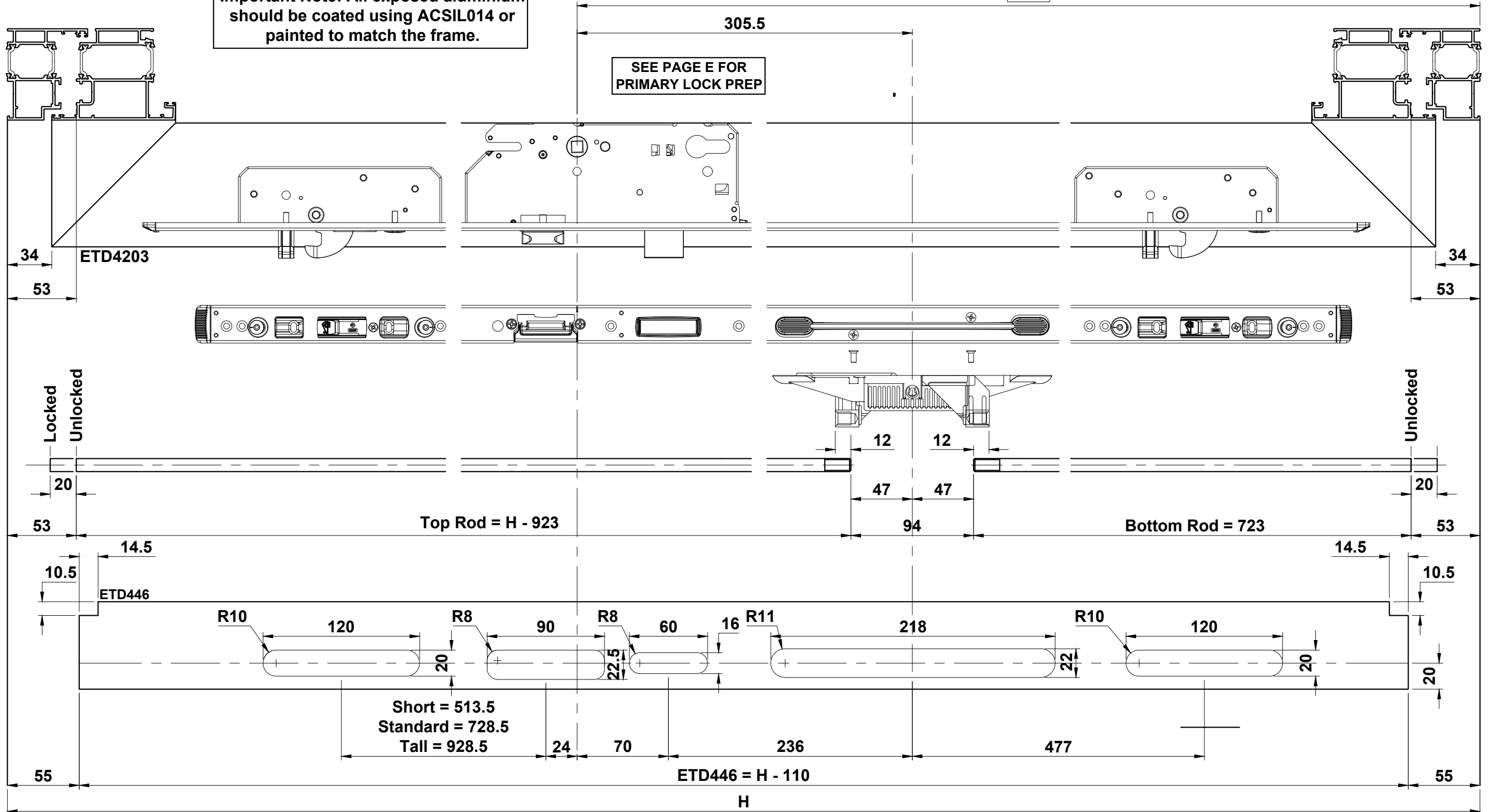
Do Not Scale From This Drawing

Flush Double Door Finger Bolt Lock Preparation for Full Frame

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

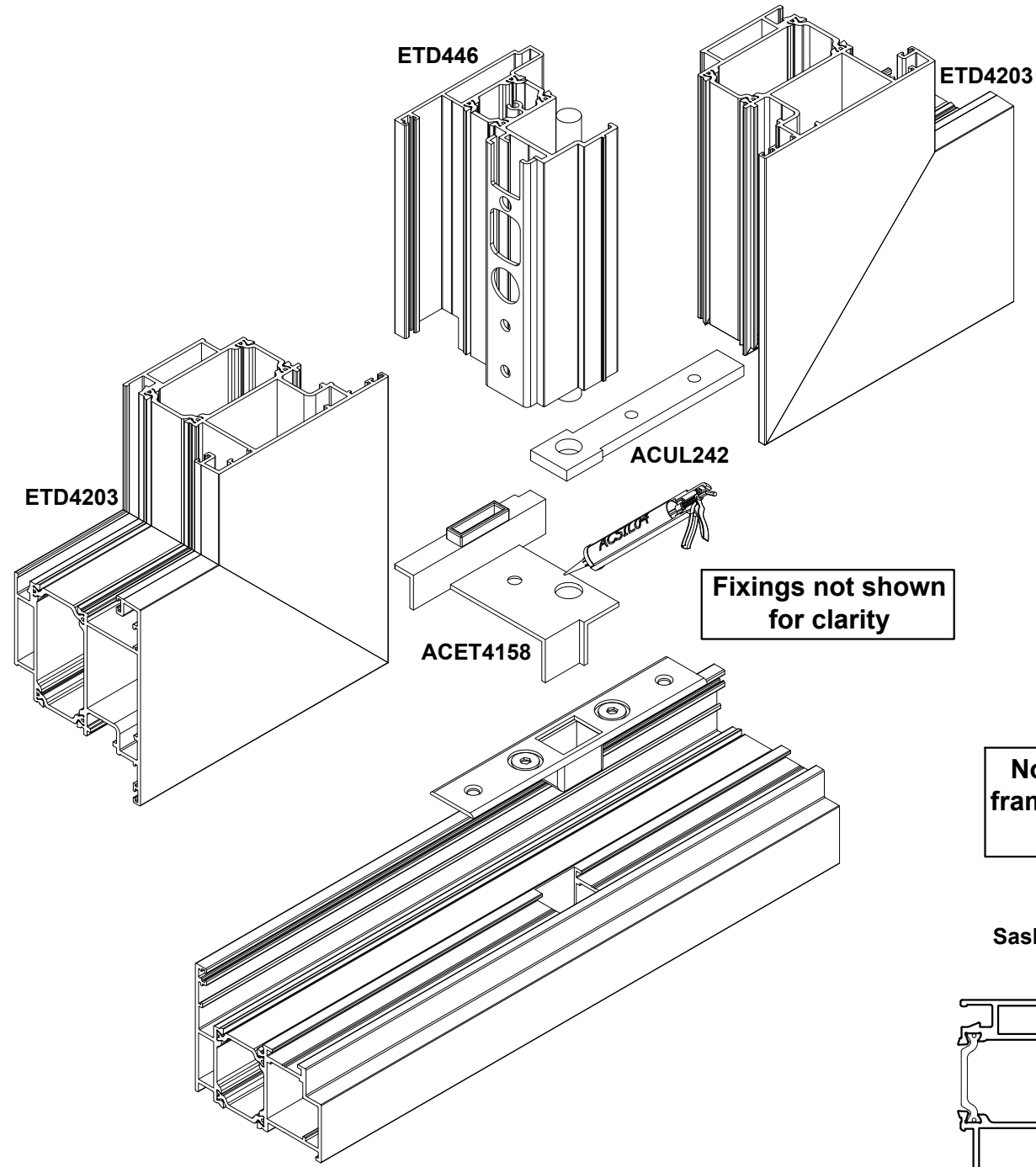
SEE PAGE E FOR PRIMARY LOCK PREP

1050



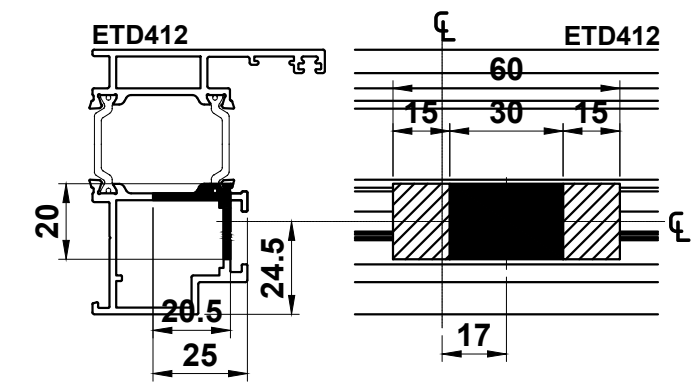
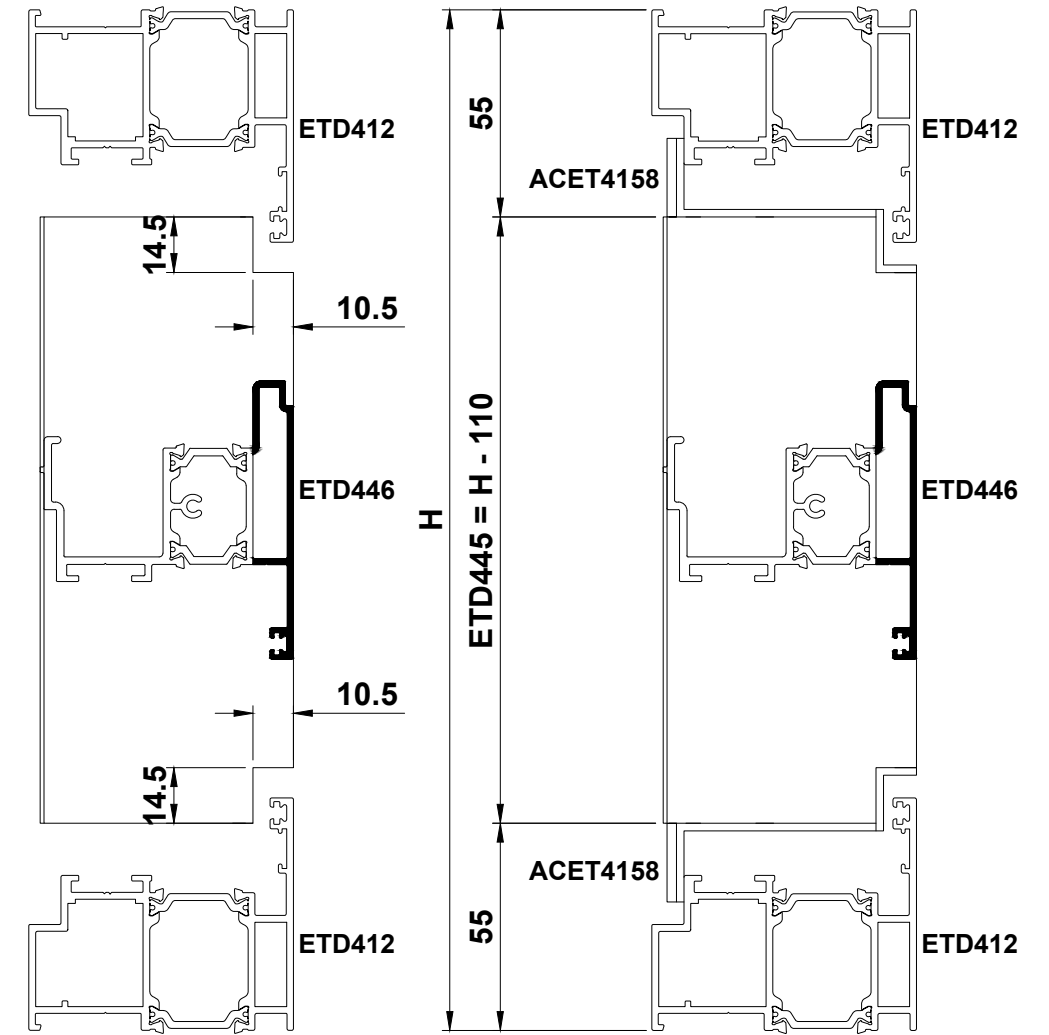
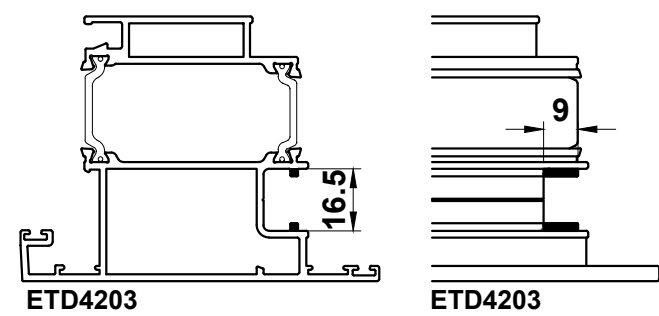
Do Not Scale From This Drawing

**Flush Double Door Finger Bolt Meeting Stile Assembly for Full Frame**

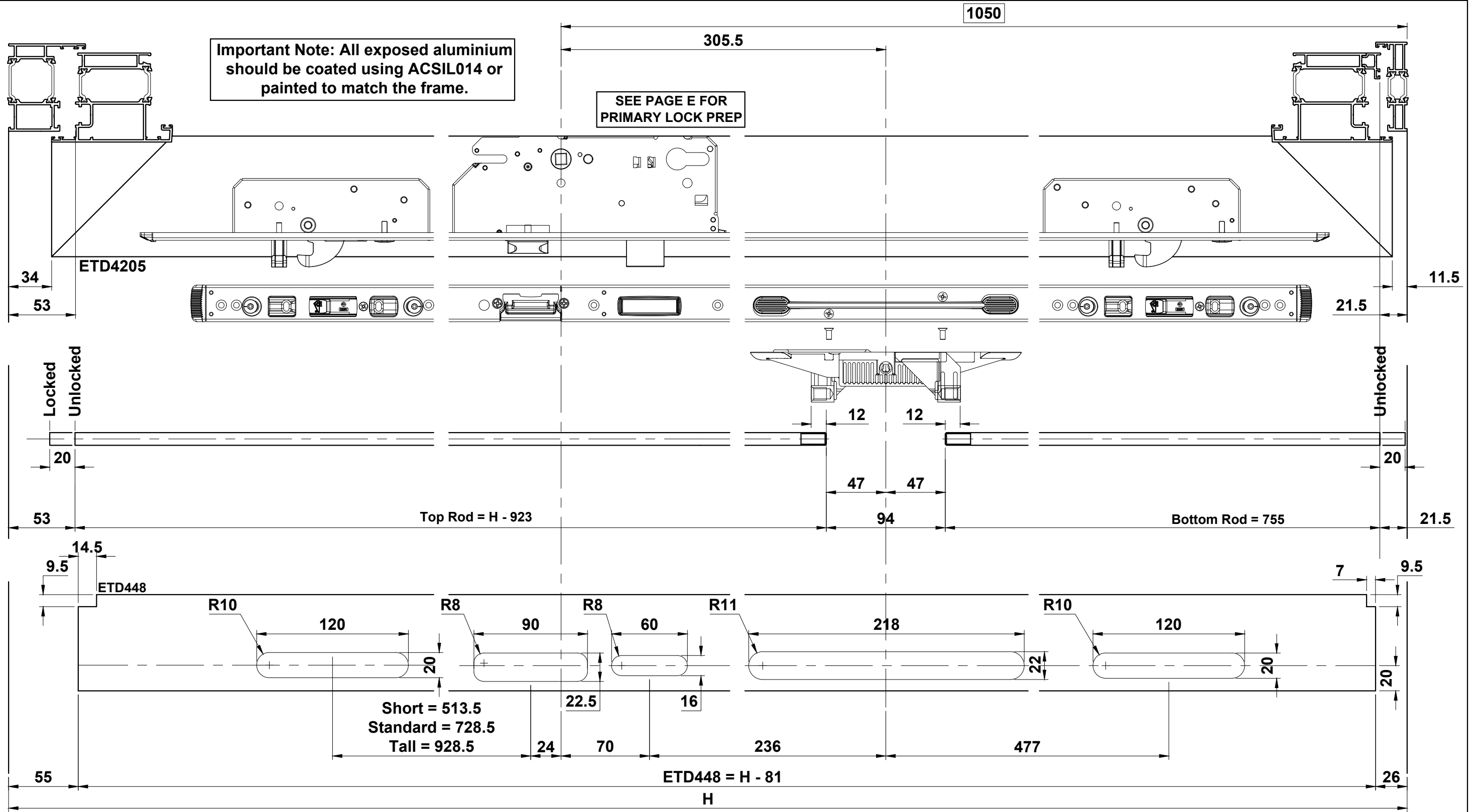


**Note: All routing on outer frame require sealant to stop water leakage**

**Sash to be notched to allow ACUL242 to fit into position**

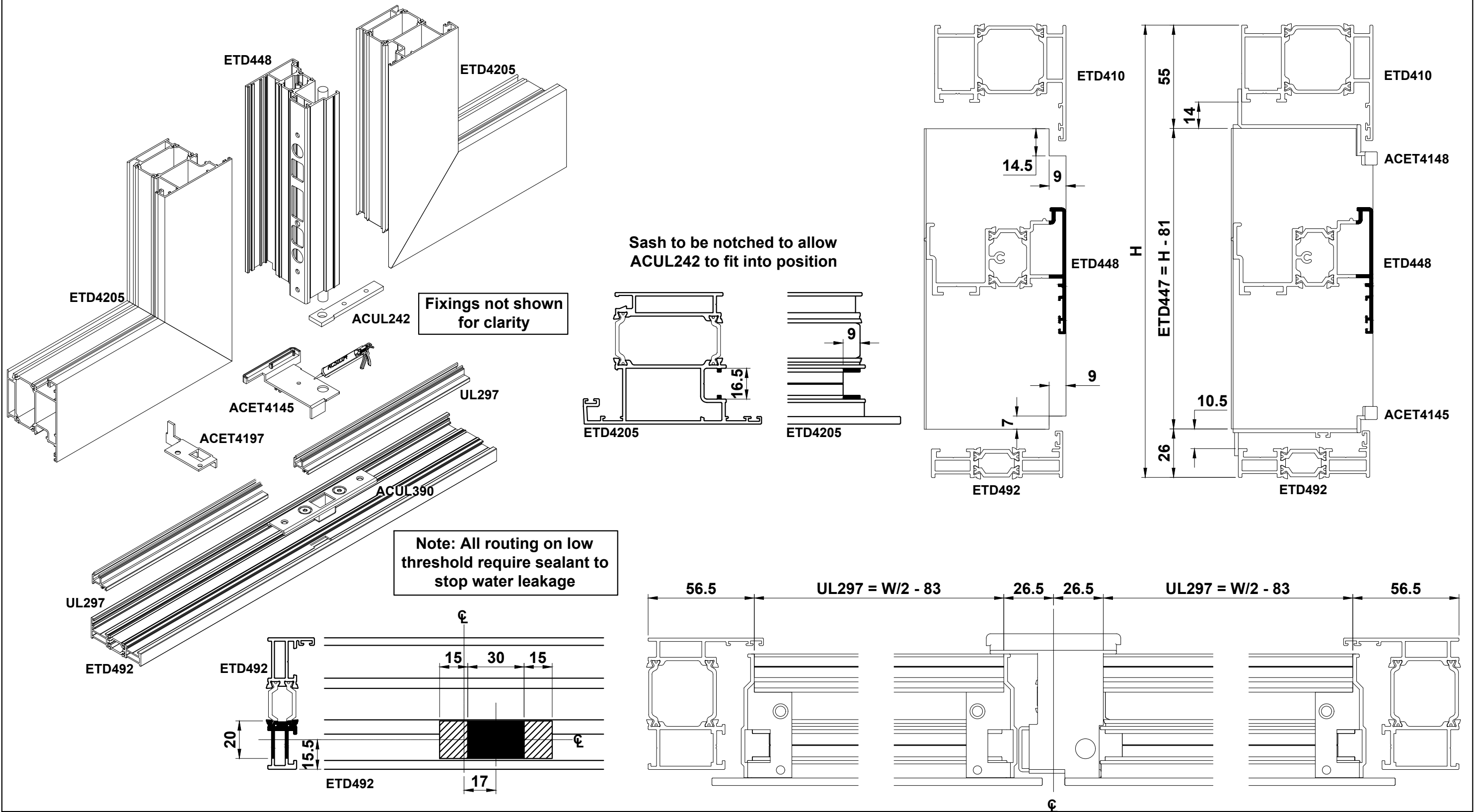


**Double Door Finger Bolt Lock Preparation for Low Rebate Threshold**



Do Not Scale From This Drawing

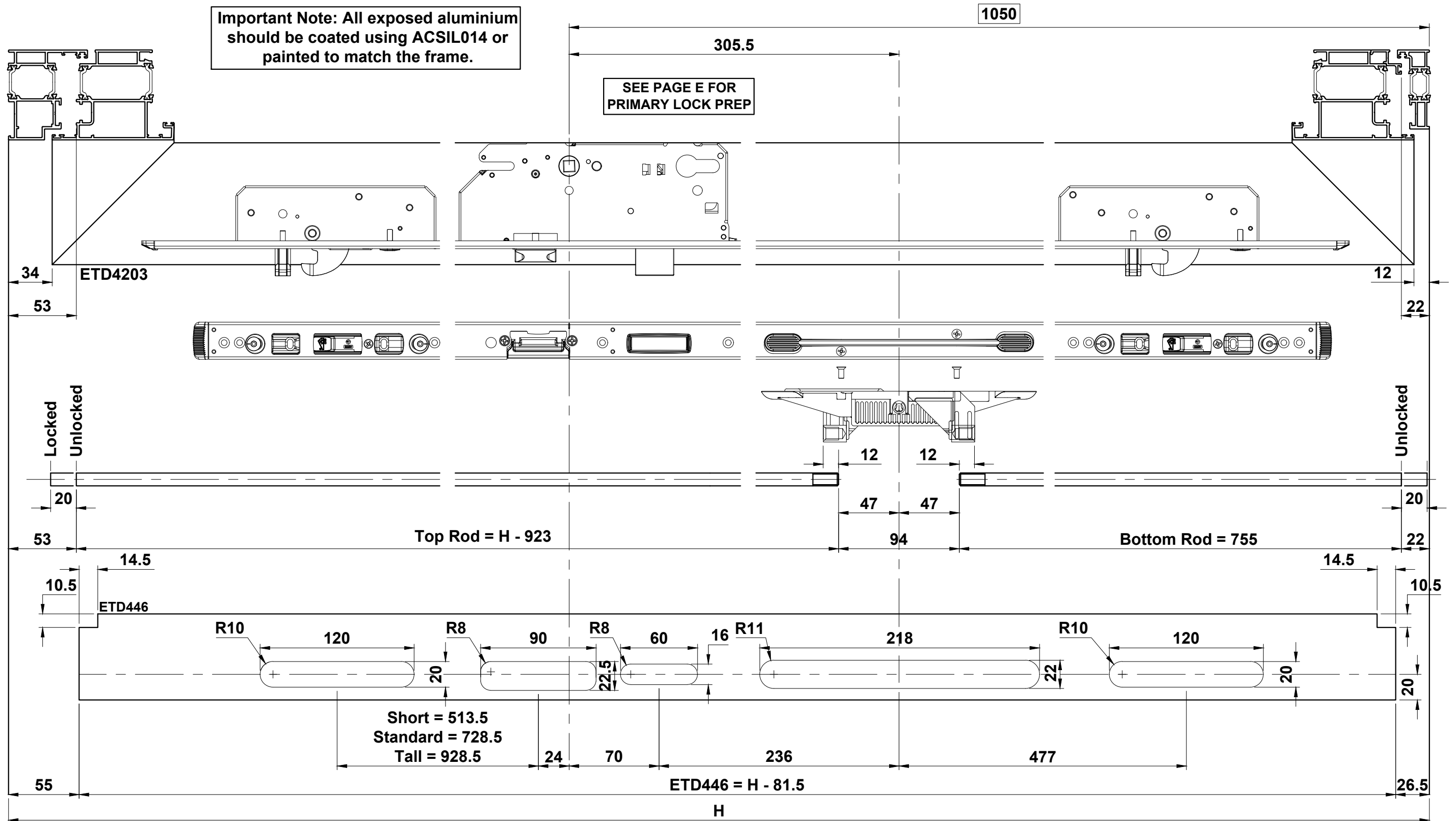
**Double Door Finger Bolt Meeting Stile Assembly for Low Rebate Threshold**



**Flush Double Door Finger Bolt Lock Preparation for Low Rebate Threshold**

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

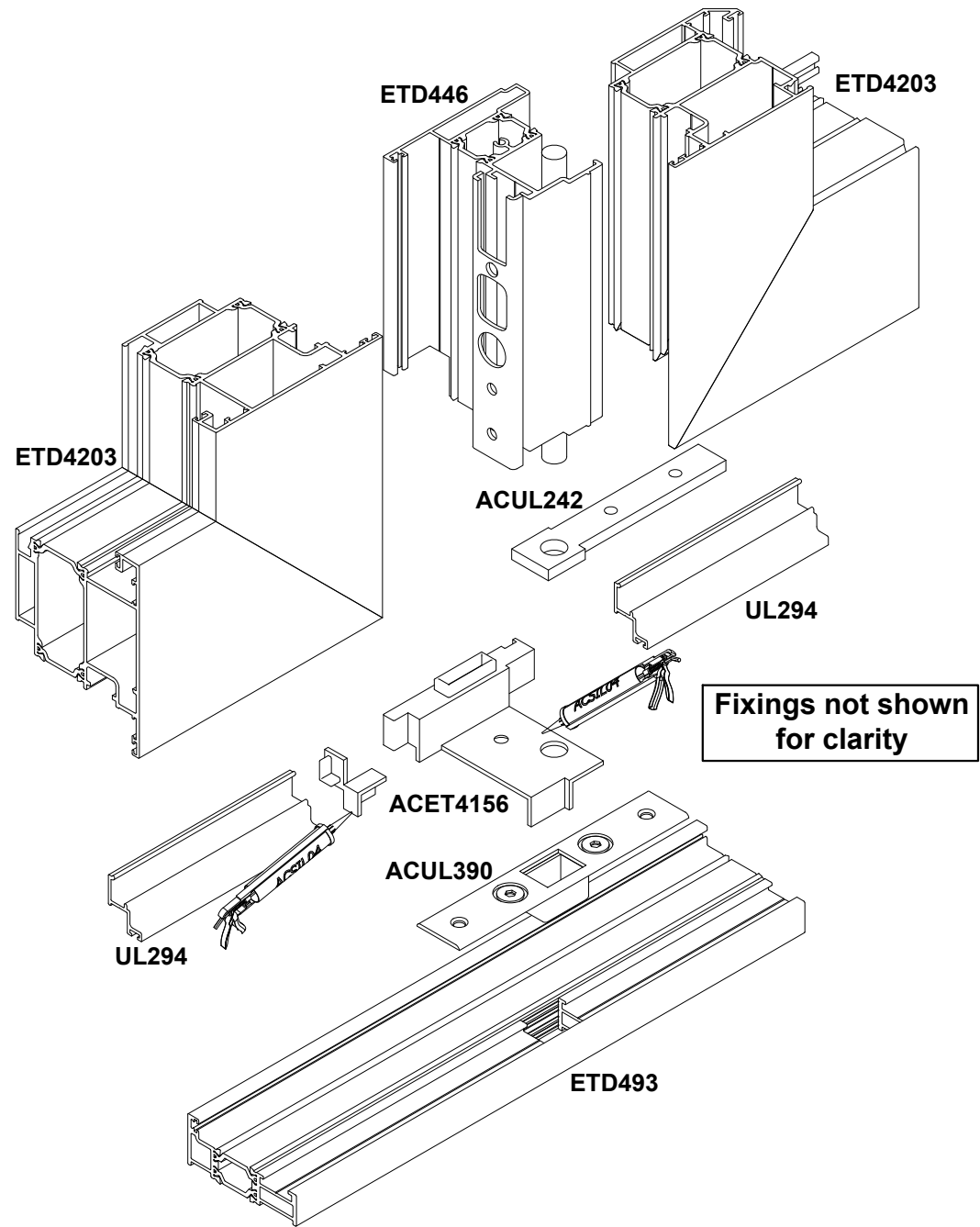
**SEE PAGE E FOR PRIMARY LOCK PREP**



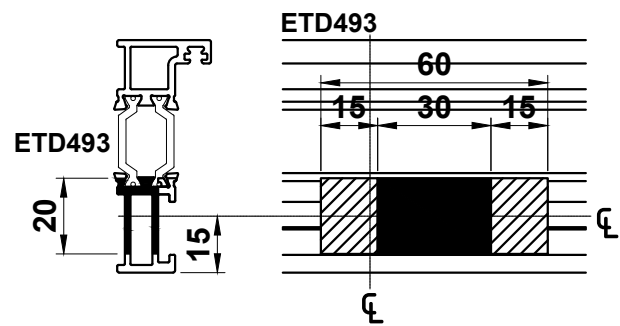
**Do Not Scale From This Drawing**



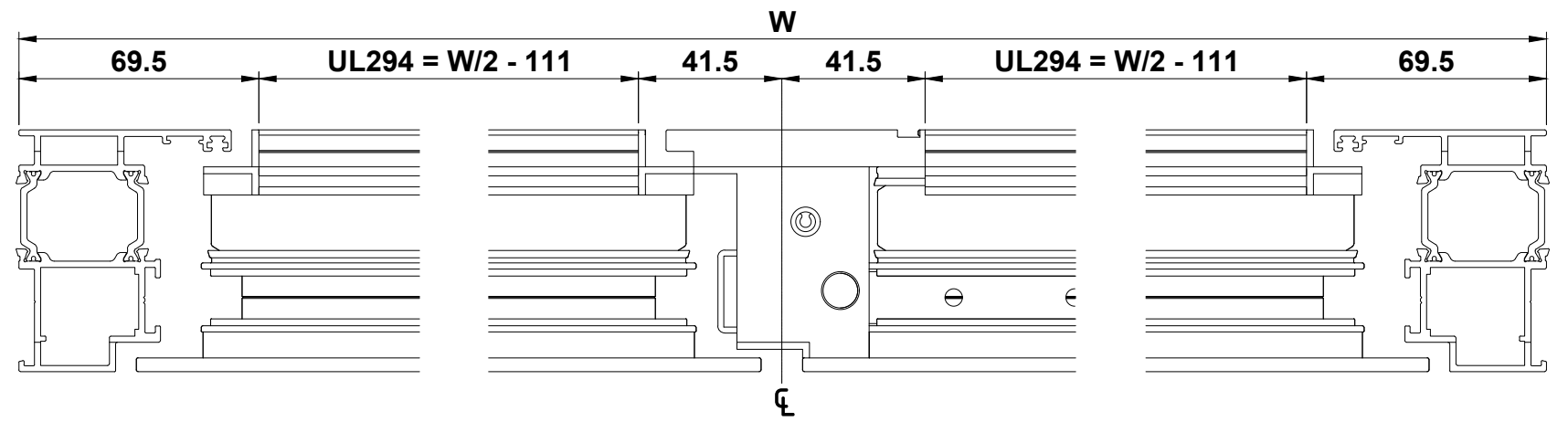
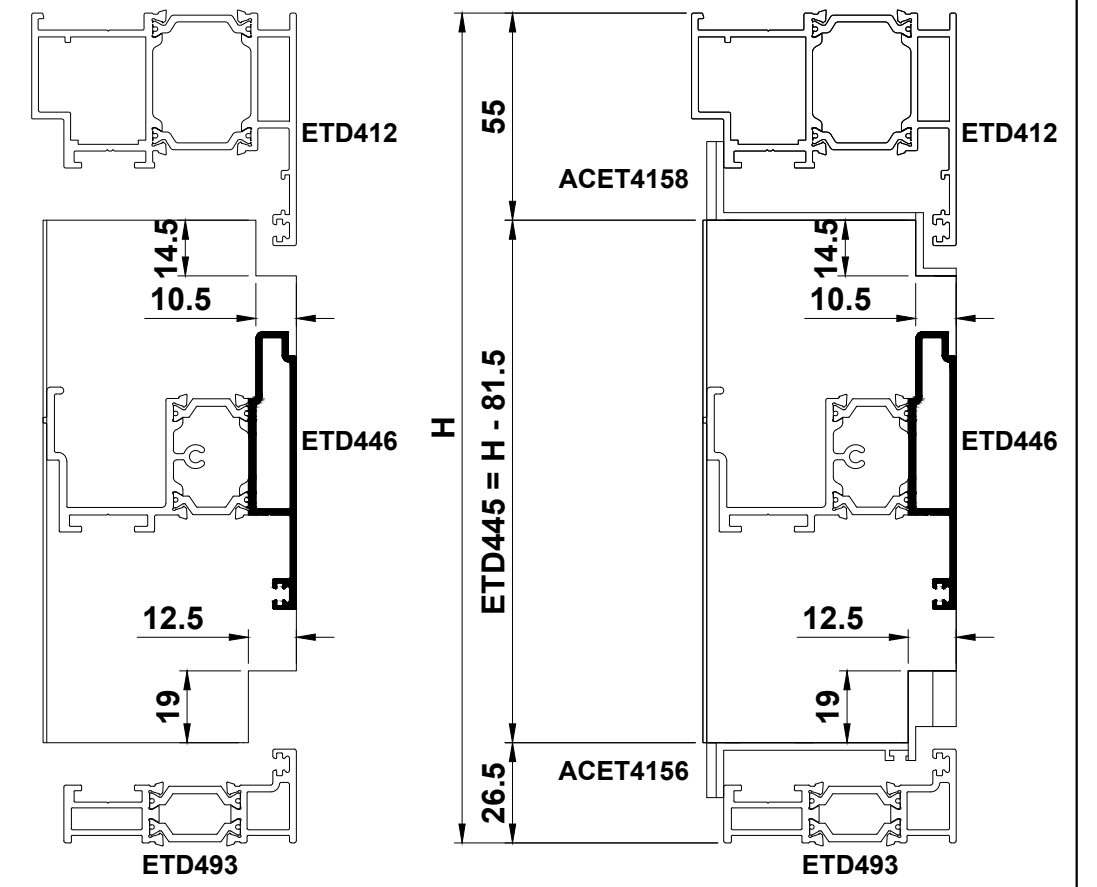
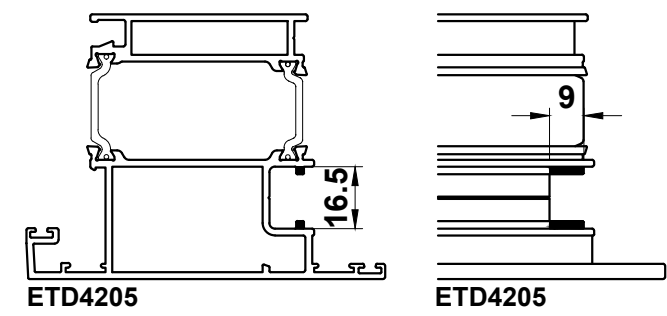
**Flush Double Door Finger Bolt Meeting Stile Assembly for Low Rebate Threshold**



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

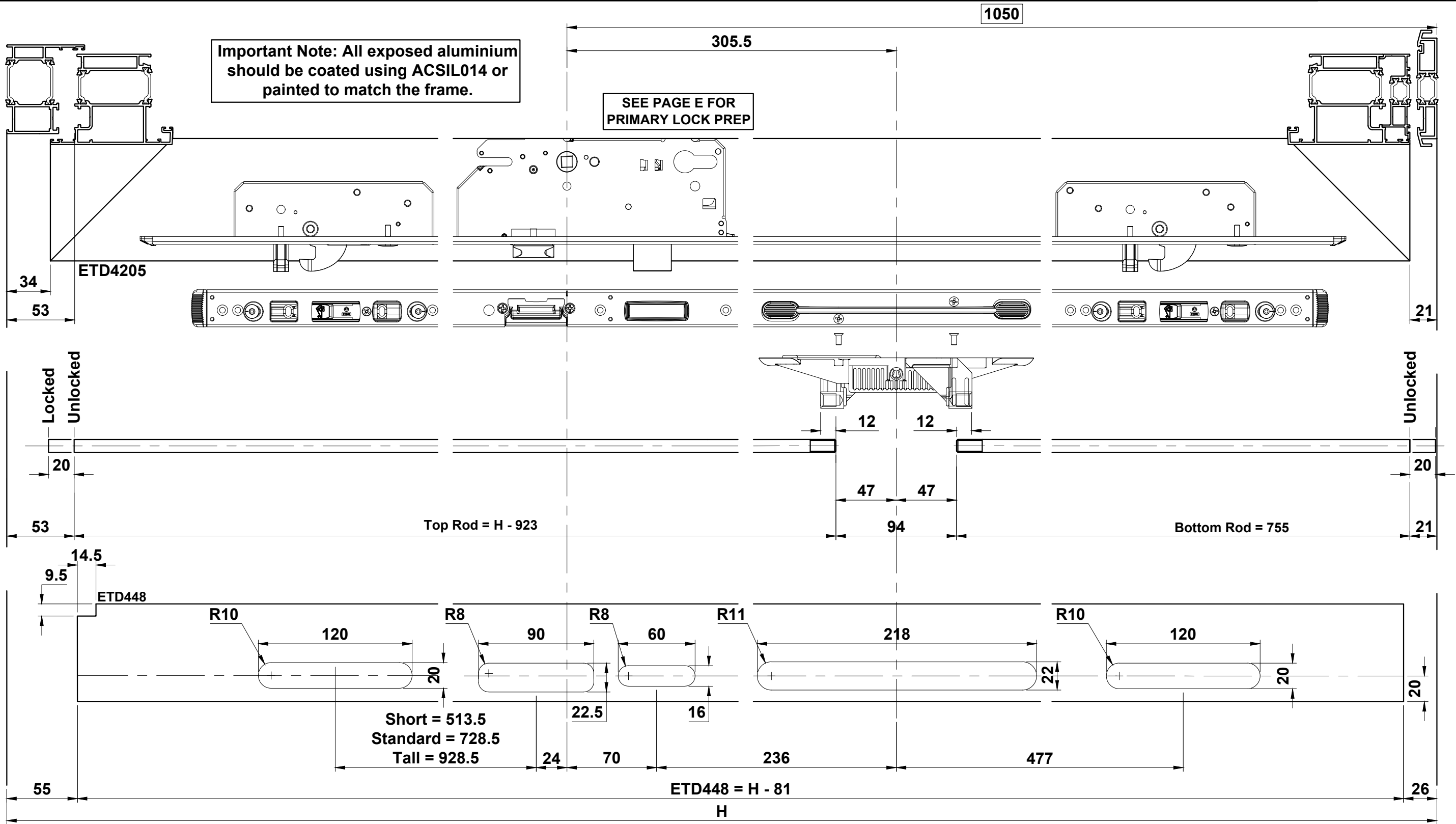


Sash to be notched to allow ACUL242 to fit into position

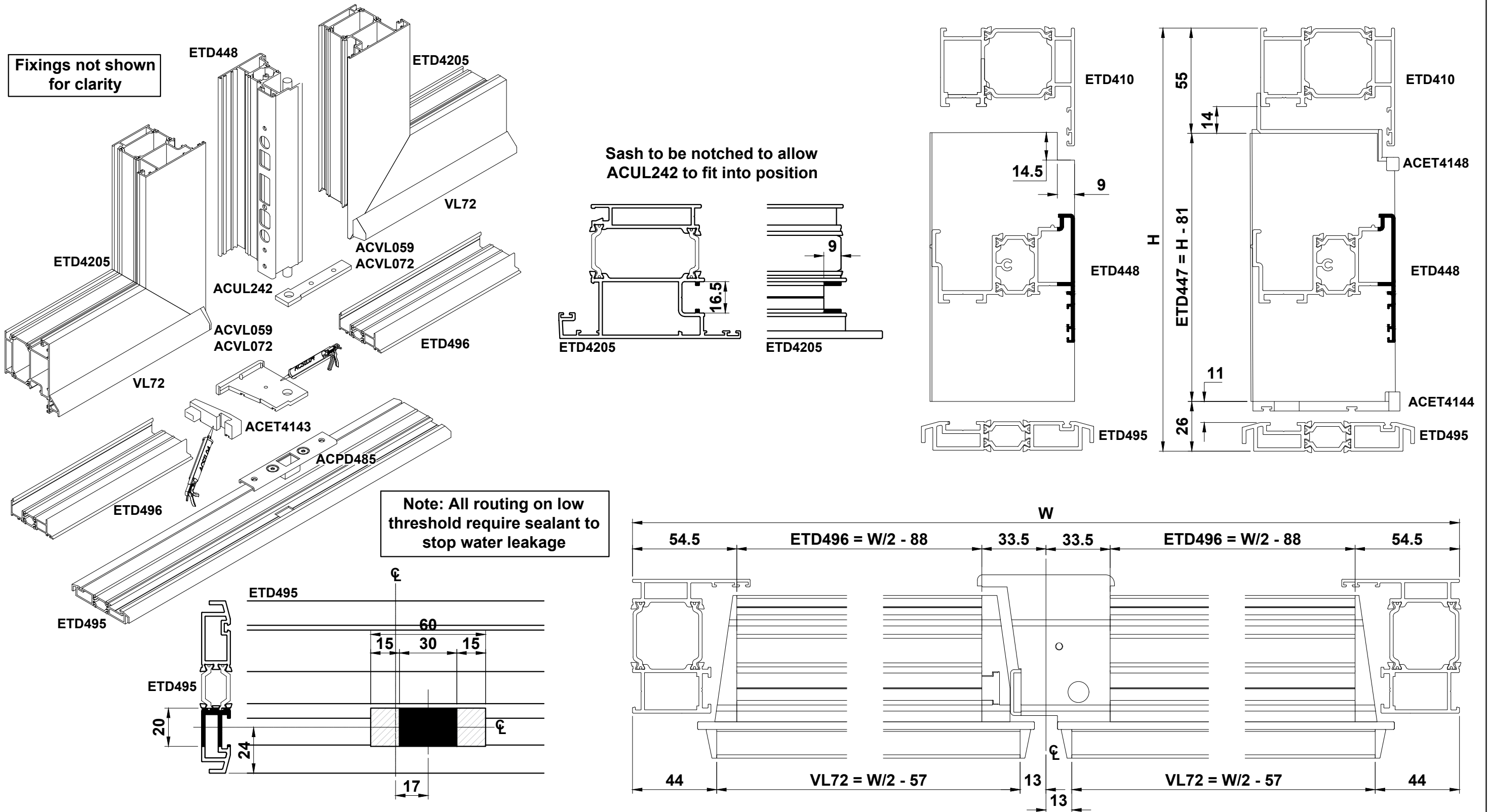


**Do Not Scale From This Drawing**

**Double Door Finger Bolt Lock Preparation for Low Ramp Threshold**



**Double Door Finger Bolt Meeting Stile Assembly for Low Ramp Threshold**

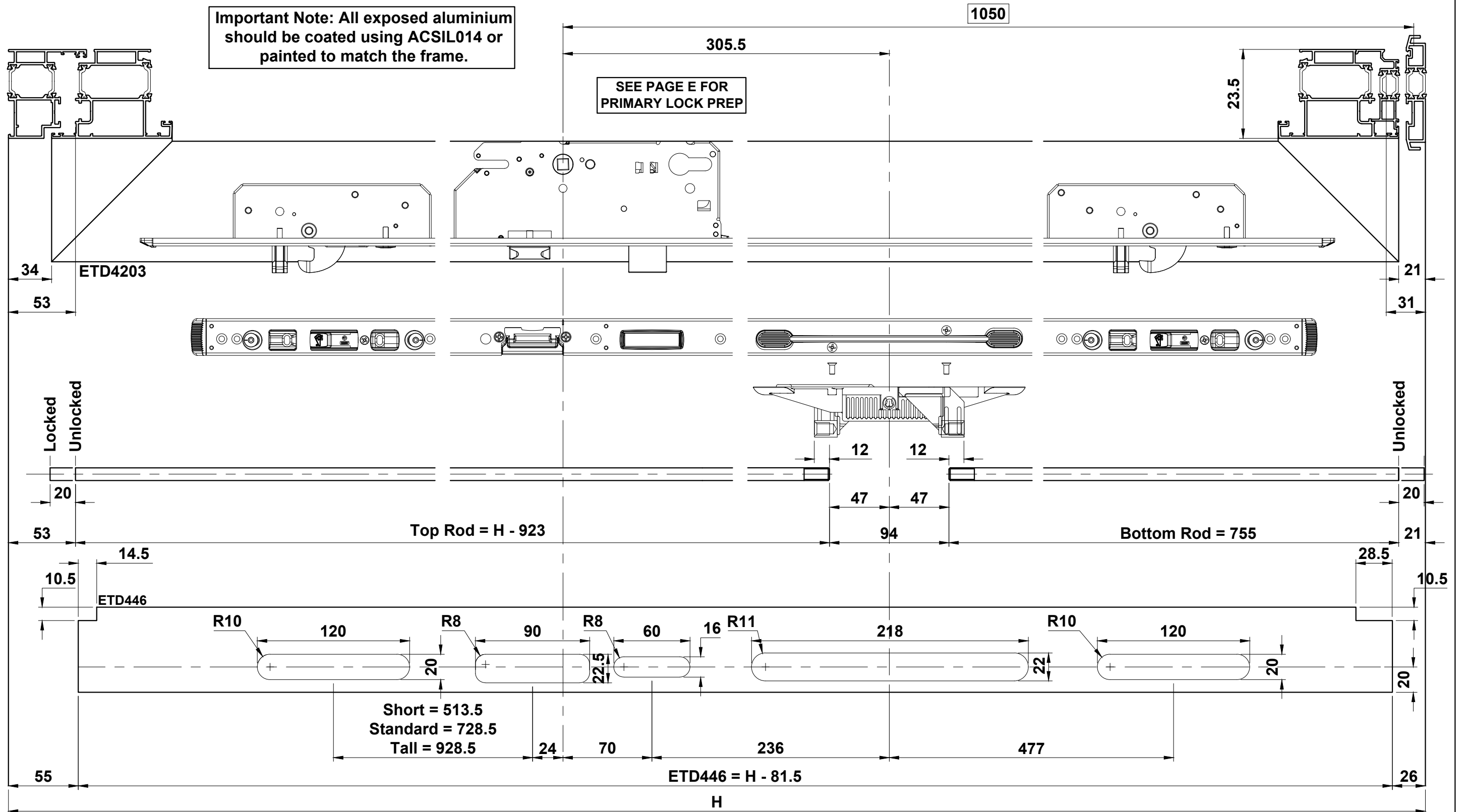


Do Not Scale From This Drawing

Flush Double Door Finger Bolt Lock Preparation for Low Ramp Threshold

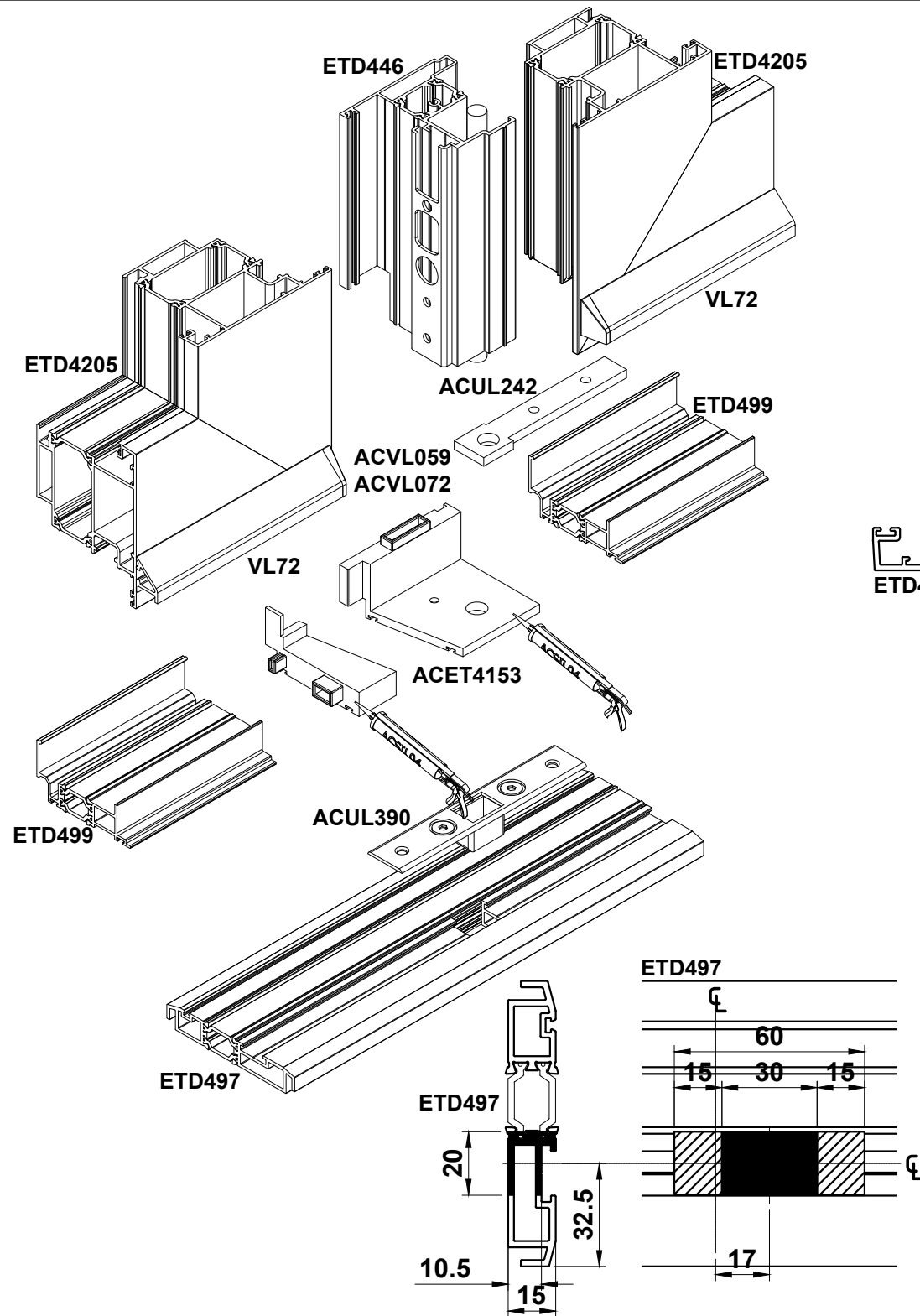
Important Note: All exposed aluminium should be coated using ACSIL014 or painted to match the frame.

SEE PAGE E FOR  
PRIMARY LOCK PREP

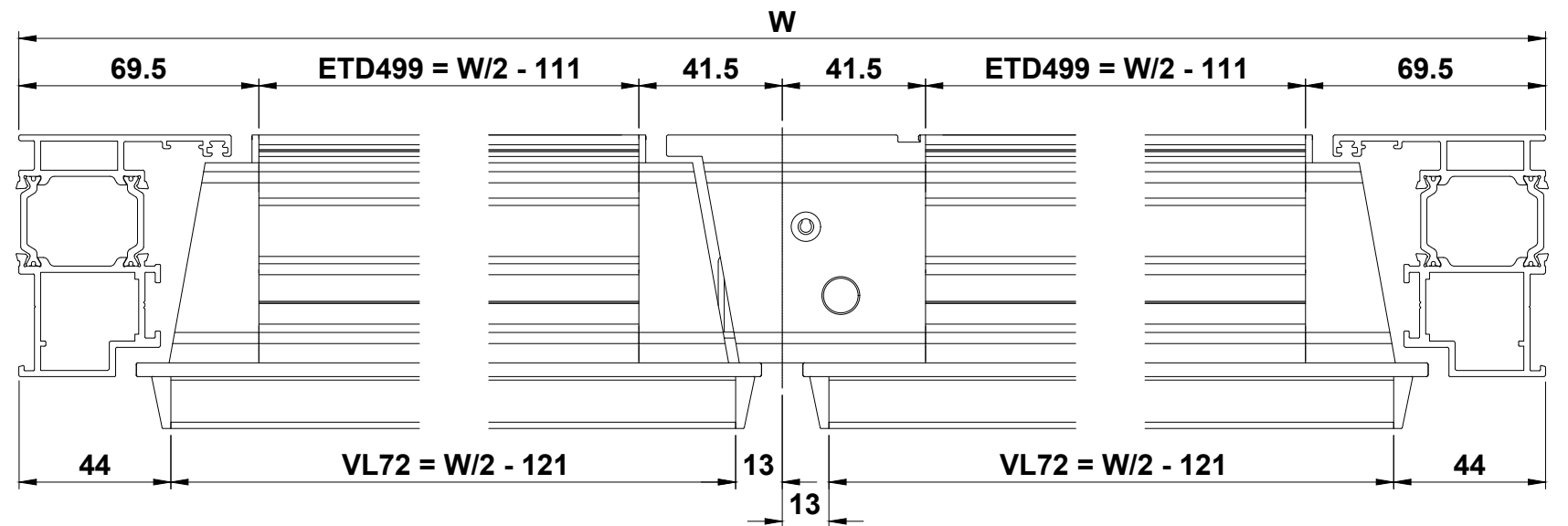
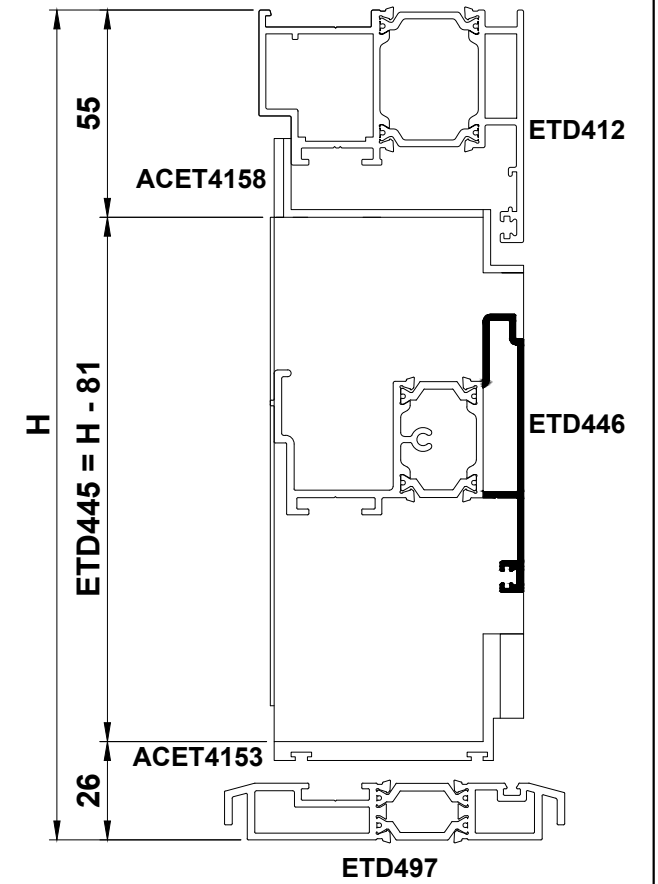
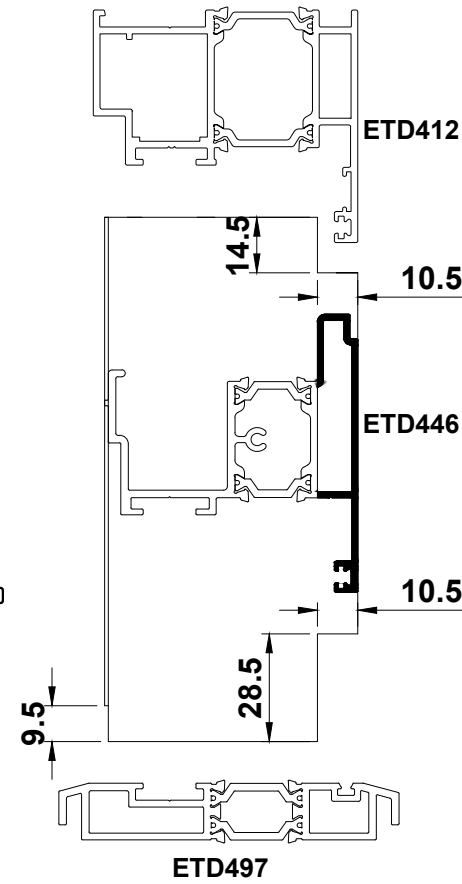
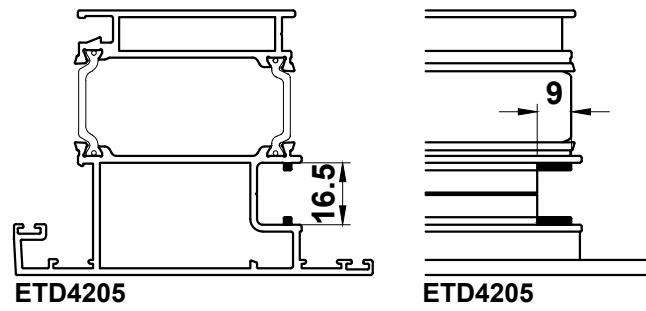


Do Not Scale From This Drawing

**Flush Double Door Finger Bolt Meeting Stile Assembly for Low Ramp Threshold**



Sash to be notched to allow ACUL242 to fit into position



Do Not Scale From This Drawing

**Letter Plate Fitting**



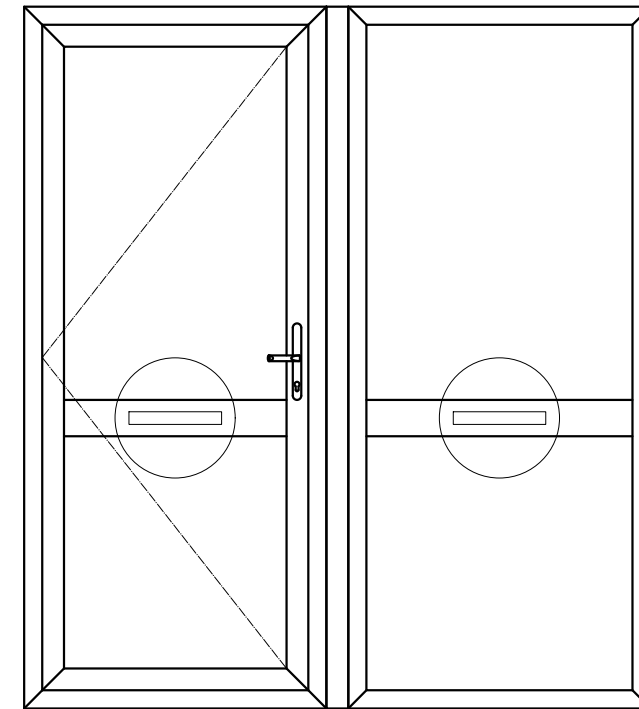
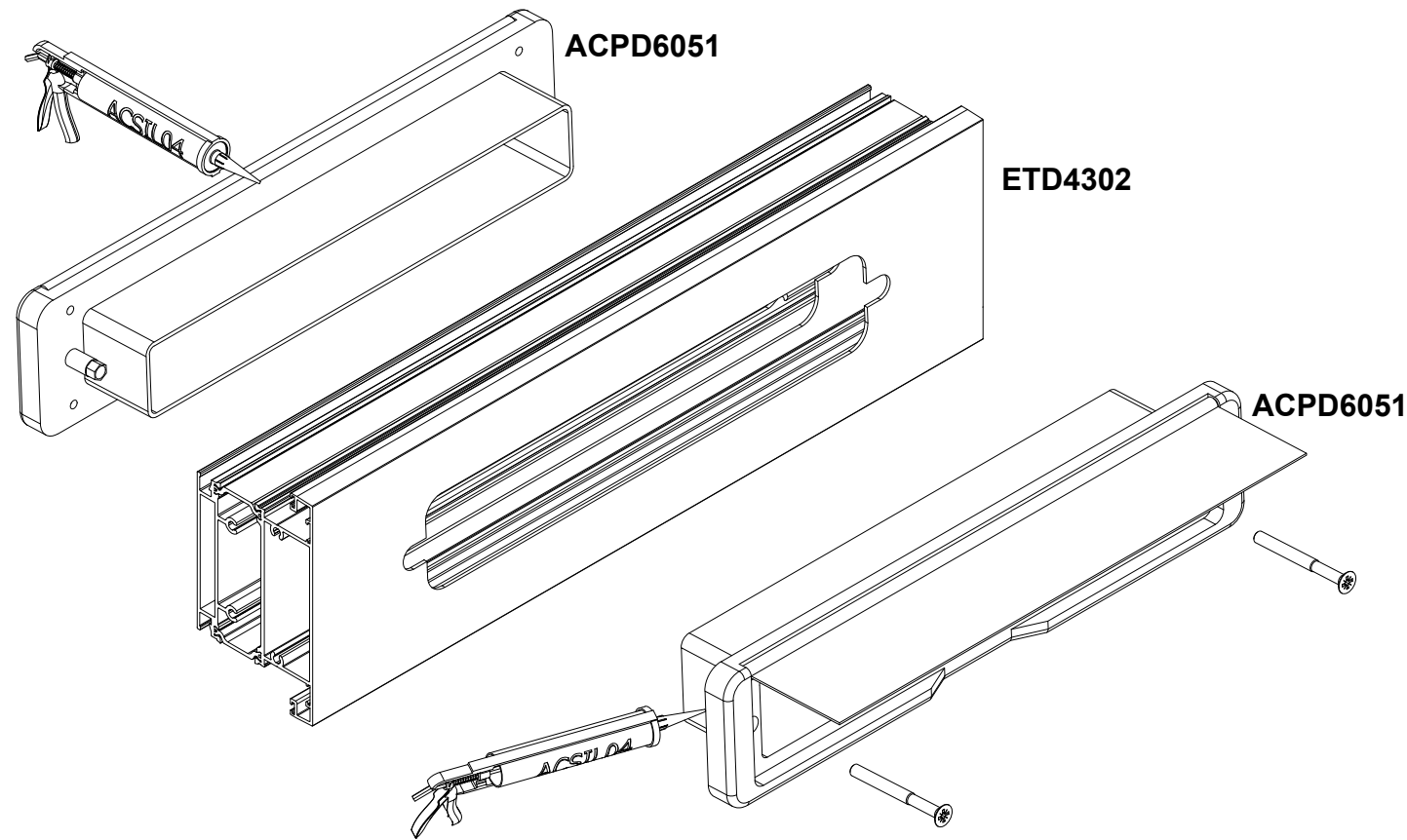
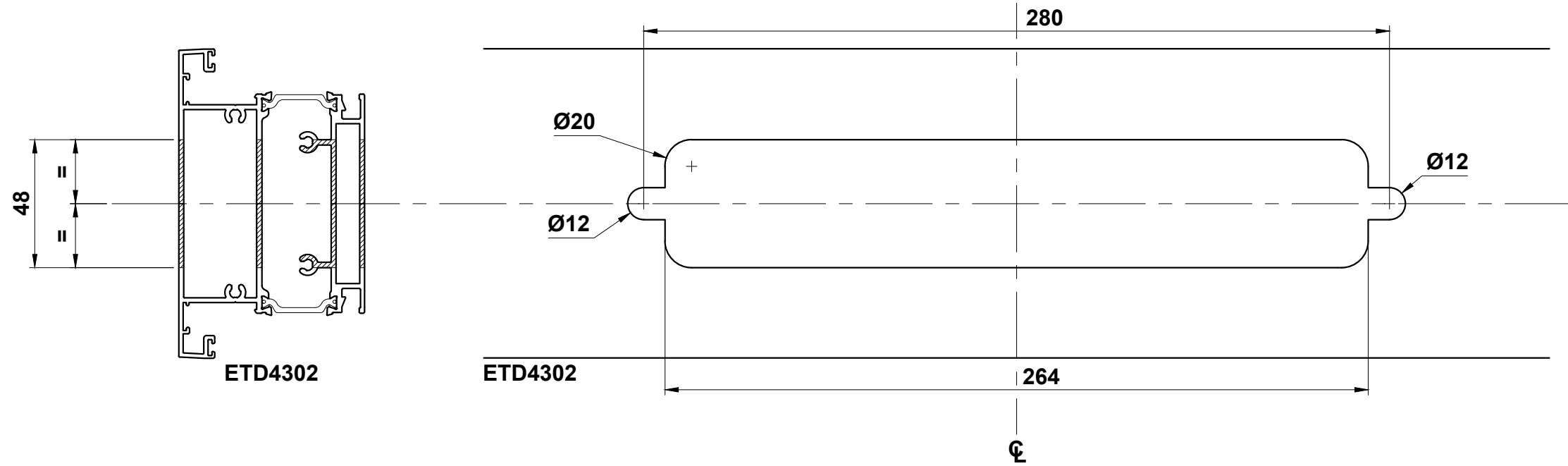
**Construction Drawings - Open Out**

**General Continued**

Letter Plate Fitting.....	E107
Quick-Glaze Bead.....	E109-E111
Glass Adjuster.....	E112
Fixing Strap Detail.....	E113
Example Layout.....	E114 - E116

**Do Not Scale From This Drawing**

Letter Plate Fitting

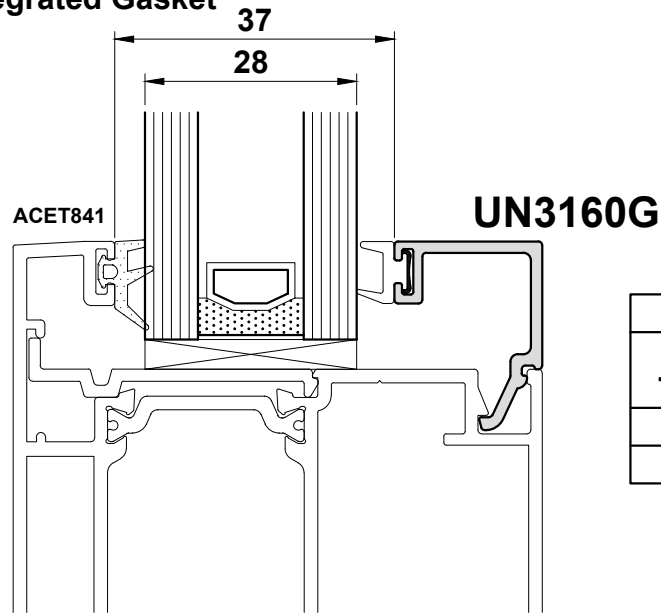


Do Not Scale From This Drawing

**Glazing Chart**

**28mm Glazing**

Integrated Gasket

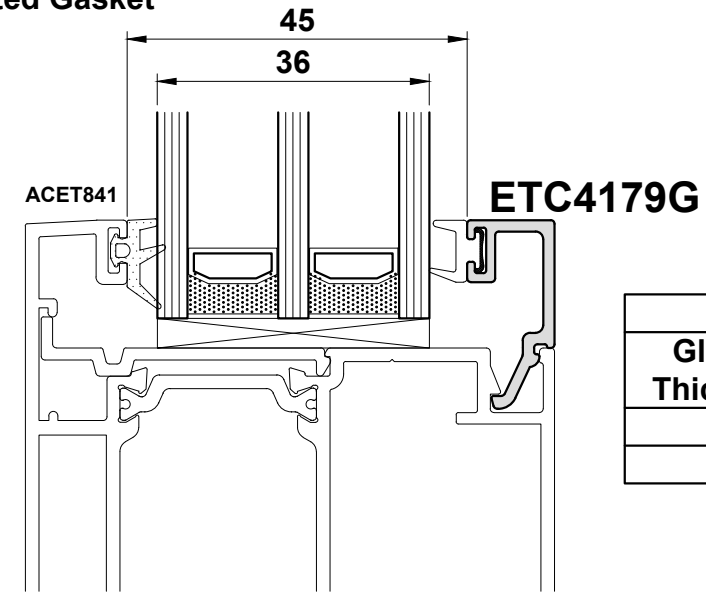


Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
28	ACET841	-
29 (28.8)	ACET842	-

**ETD402 ETD4204  
ETD4202 ETD4301**

**36mm Glazing**

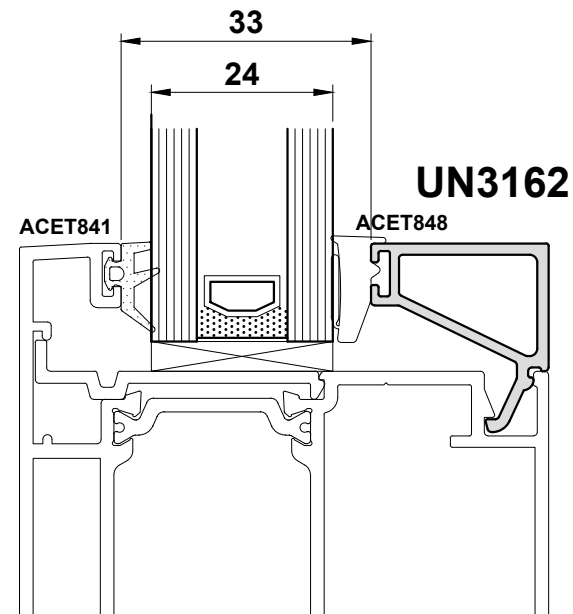
Integrated Gasket



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

**ETD402 ETD4204  
ETD4202 ETD4301**

**24-26mm Glazing**

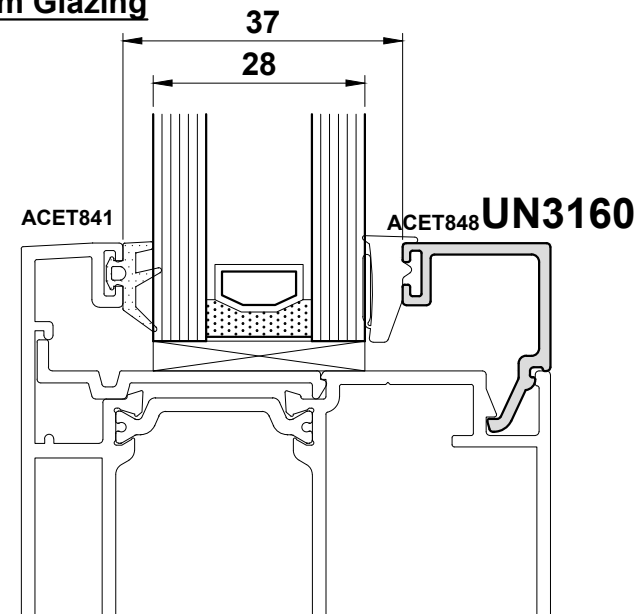


Low Profile Gaskets		
Glazing Thickness	External Gasket	Internal Gasket
24	ACET841	ACET848
25	ACET842	ACET848
26	ACET843	ACET848

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

**ETD402 ETD4204  
ETD4202 ETD4301**

**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

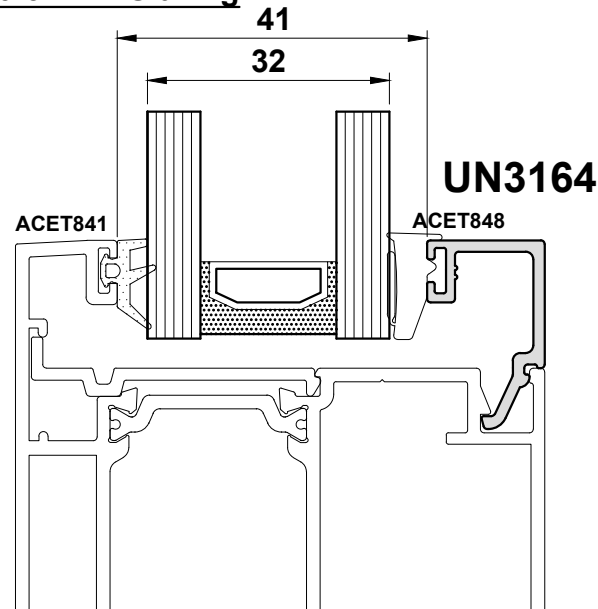
**ETD402 ETD4204  
ETD4202 ETD4301**

Do Not Scale From This Drawing



**Glazing Chart**

**30-32mm Glazing**

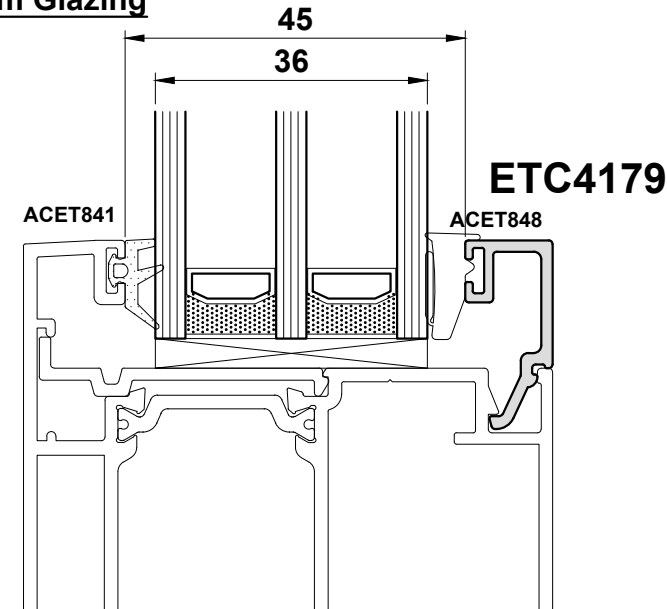


**ETD402 ETD4204  
ETD4202 ETD4301**

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**

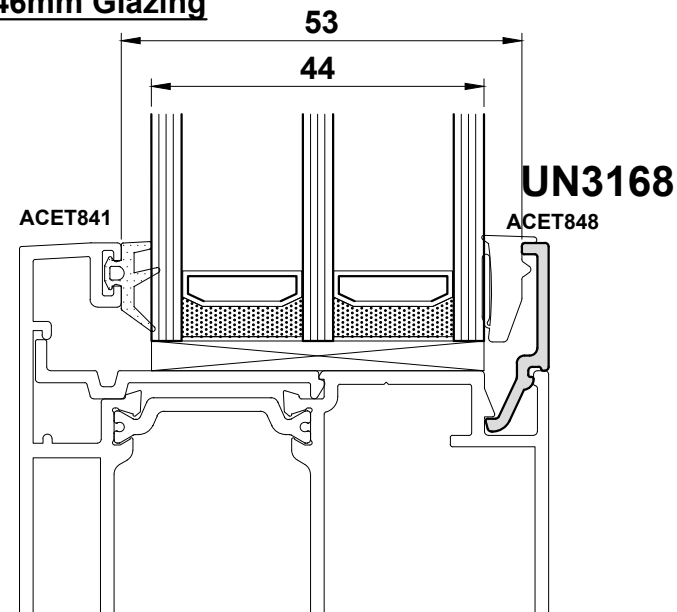


**ETD402 ETD4204  
ETD4202 ETD4301**

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**



**ETD402 ETD4204  
ETD4202 ETD4301**

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

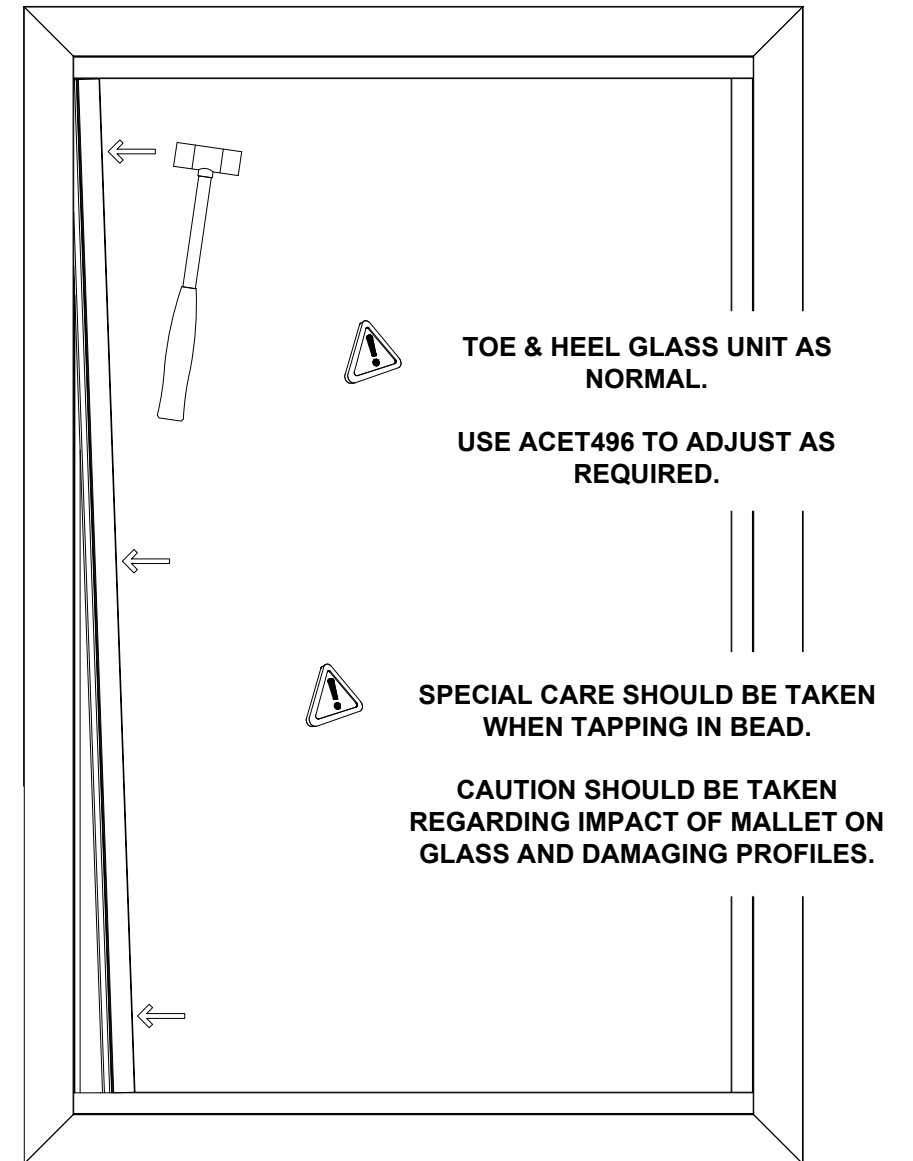
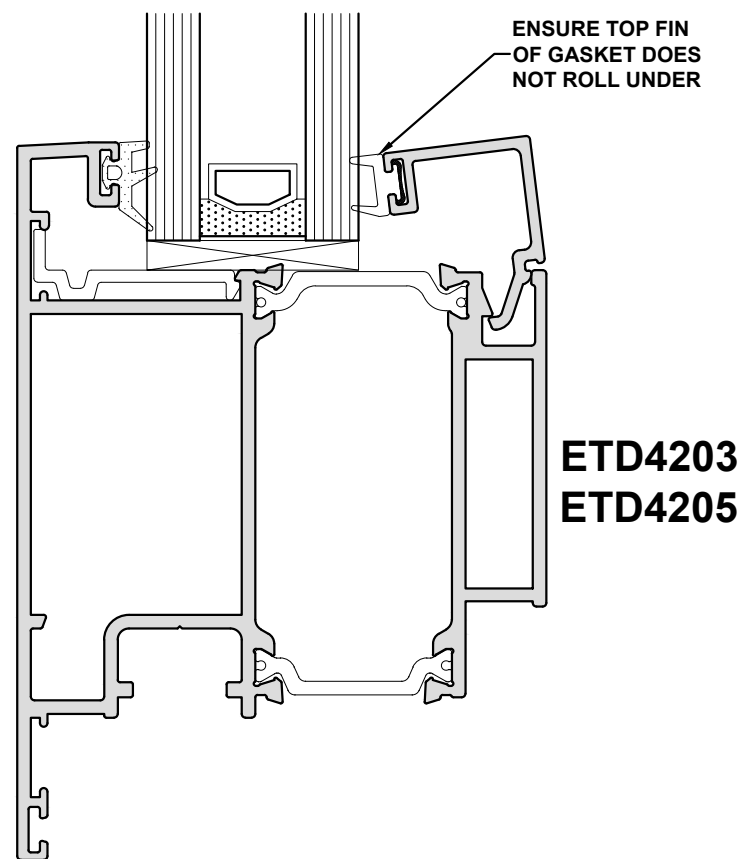
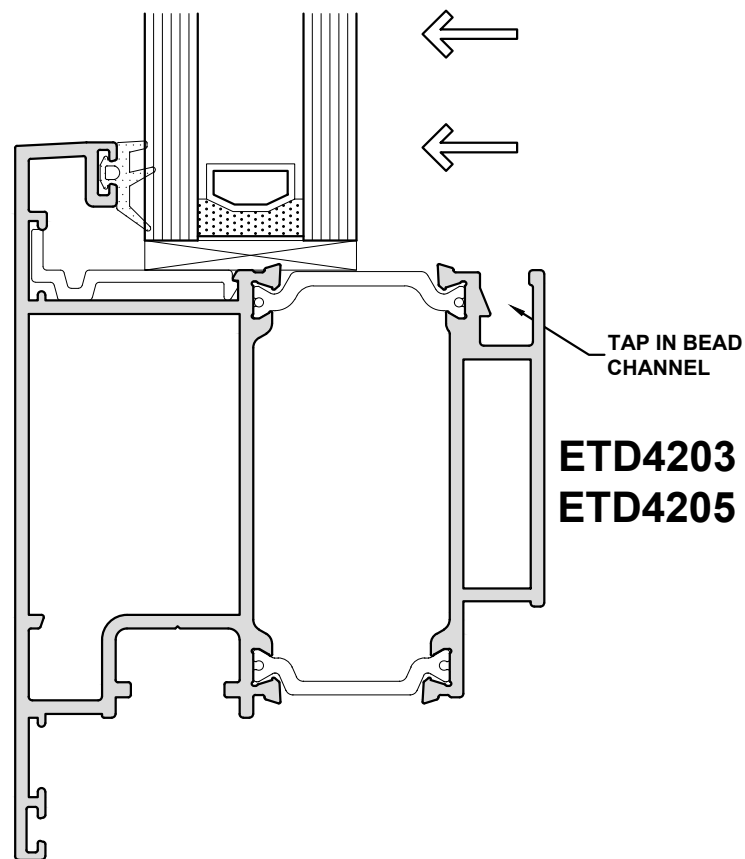
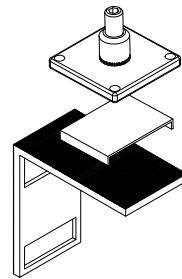
Do Not Scale From This Drawing

**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

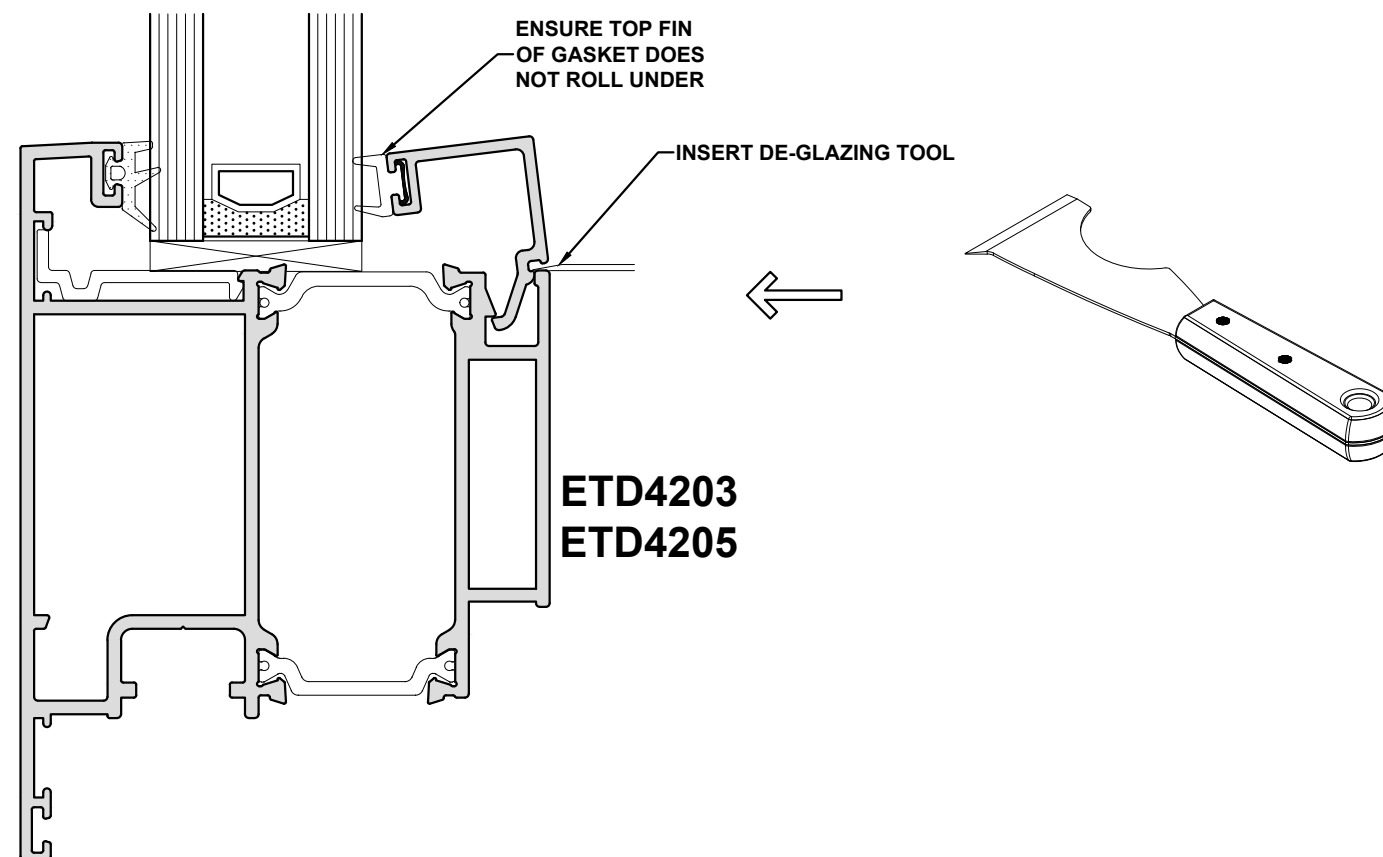
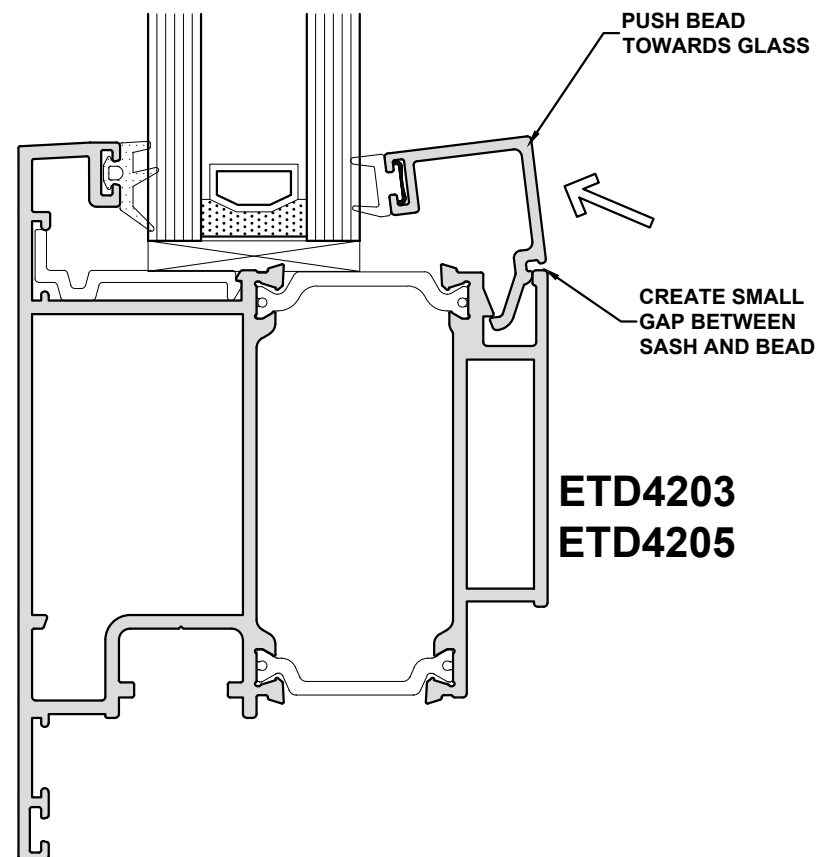


**REPLACE INTEGRATED GASKET**

**QUICK-GLAZE BEAD REMOVAL**

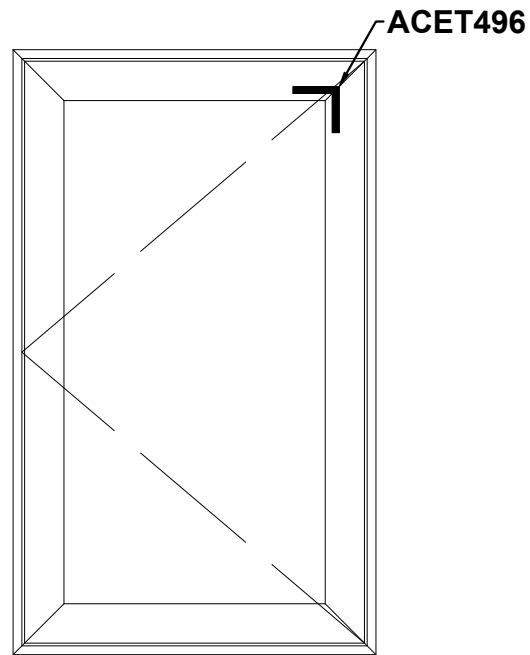
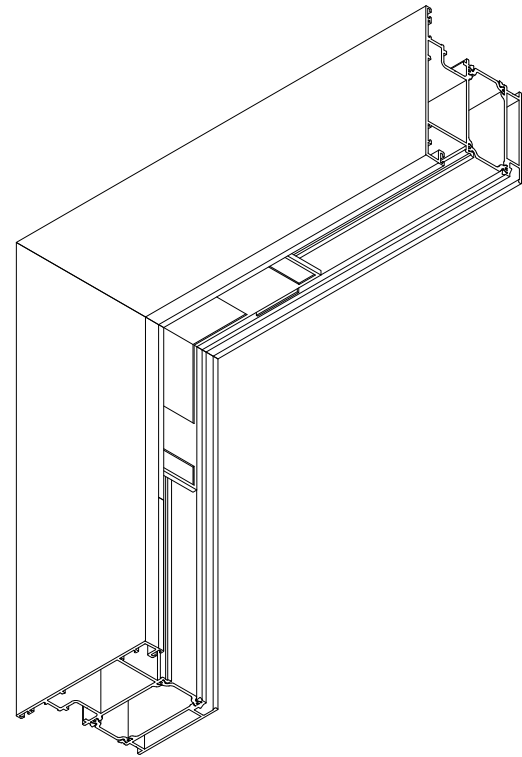
1. USING SMALL FLAT HEADED SCREWDRIVER OR SIMILAR, WEDGE TIP BETWEEN CO EXTRUDED GASKET AND ALUMINIUM.
2. IN A LEVERING MOTION, PRISE THE GASKET AWAY FROM THE ALUMINIUM. PARTICULAR CARE SHOULD BE TAKEN NOT TO DAMAGE THE GLASS UNIT AND ALUMINIUM.
3. COMPLETE THIS AT SEVERAL LOCATIONS ALONG THE LENGTH 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.



Do Not Scale From This Drawing

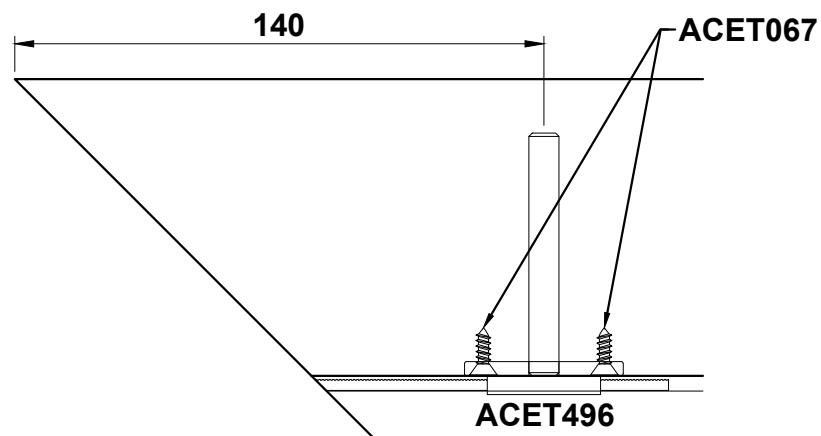
**Glass Adjuster**



ACET496

To ensure accuracy use  
ACET497 drill jig

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

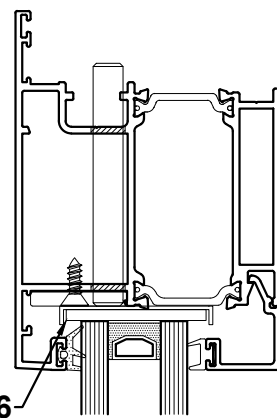


140

ACET067

ACET496

ACET496

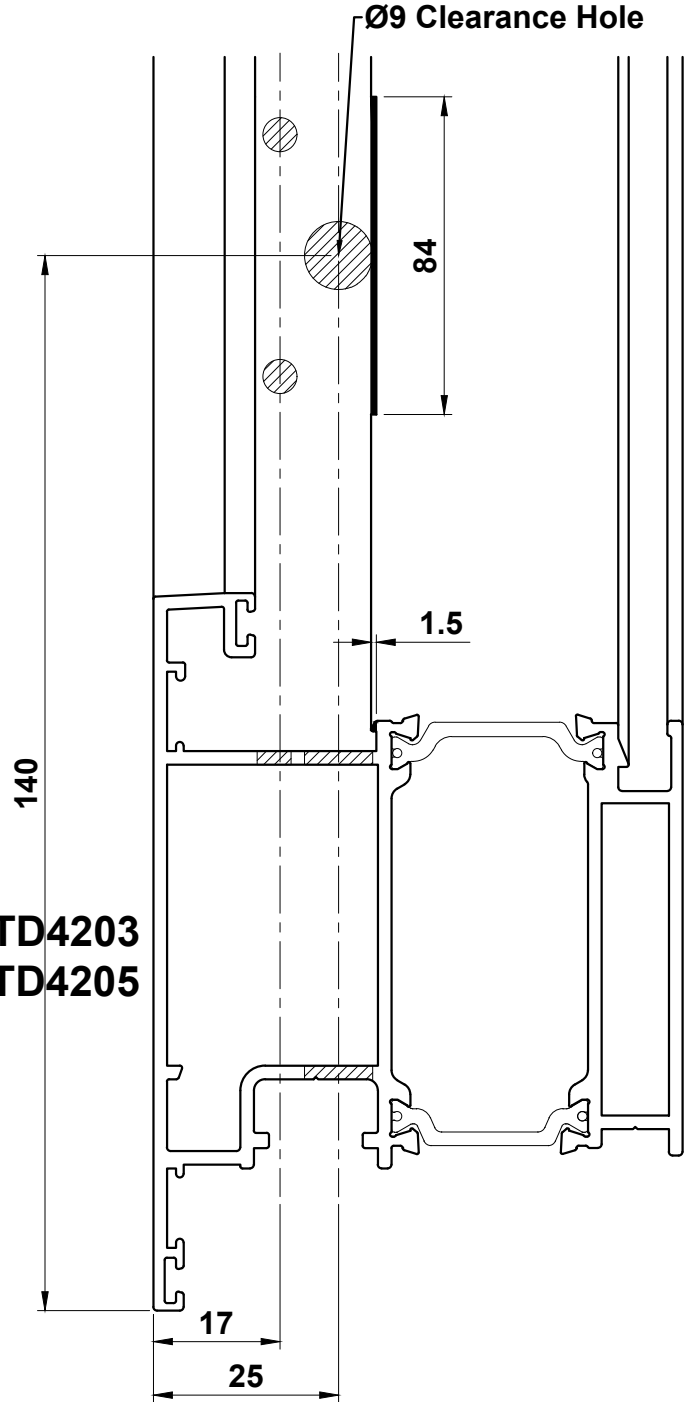


ETD4203  
ETD4205

ETD4203  
ETD4205

140

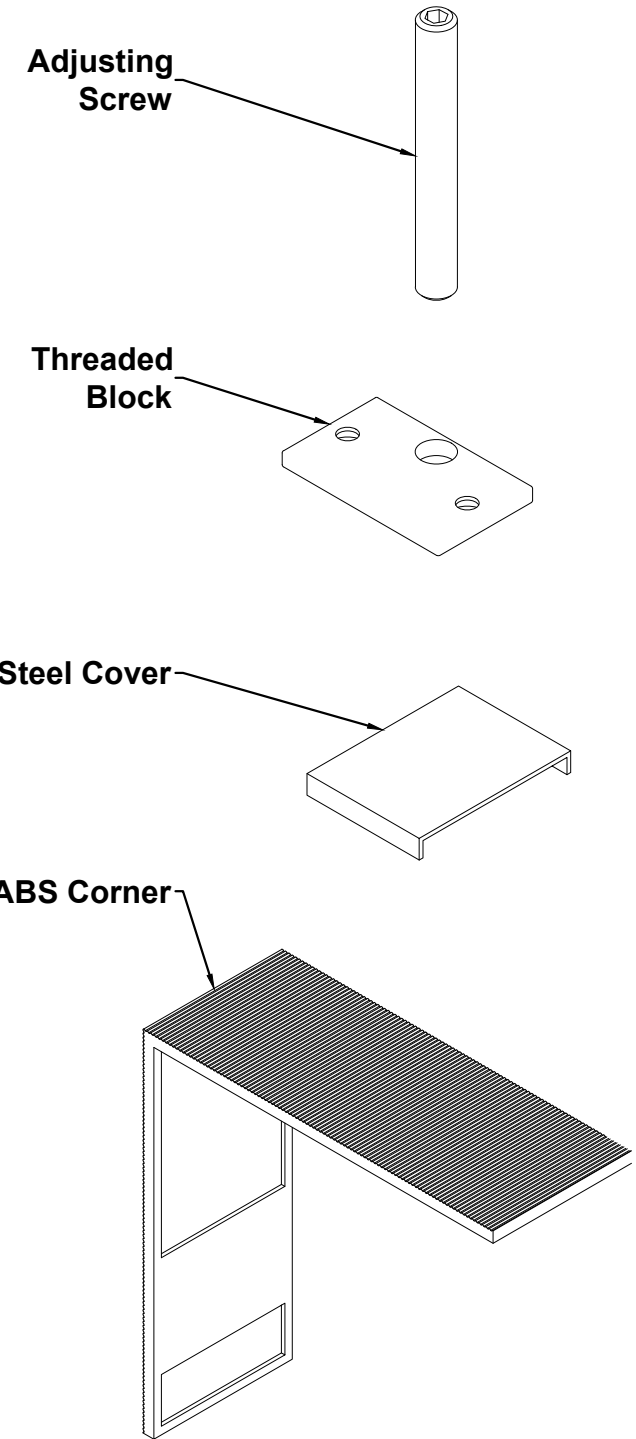
17  
25



Ø9 Clearance Hole

84

1.5



Adjusting  
Screw

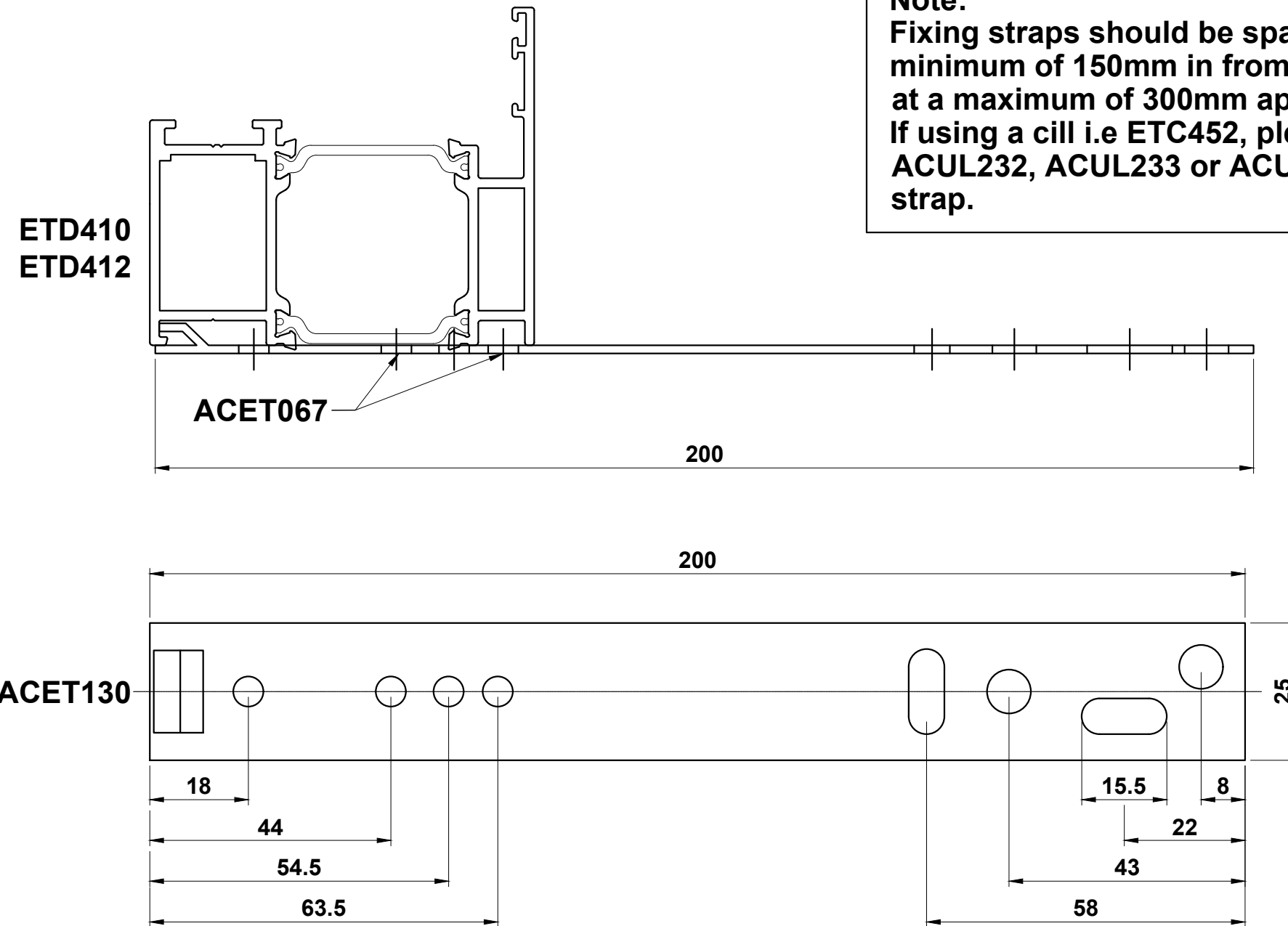
Threaded  
Block

Steel Cover

ABS Corner

Do Not Scale From This Drawing

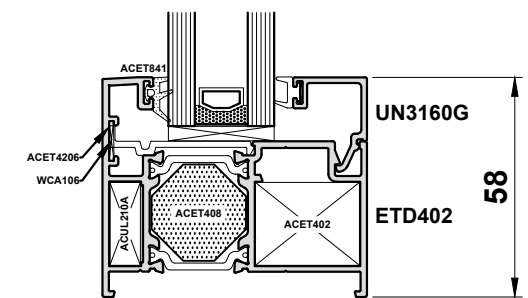
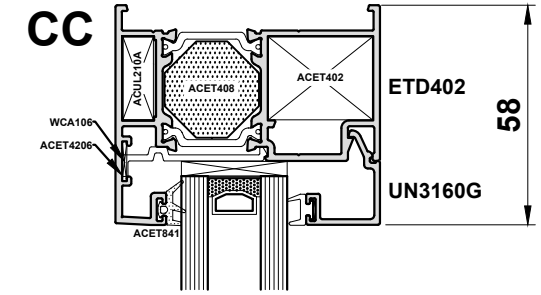
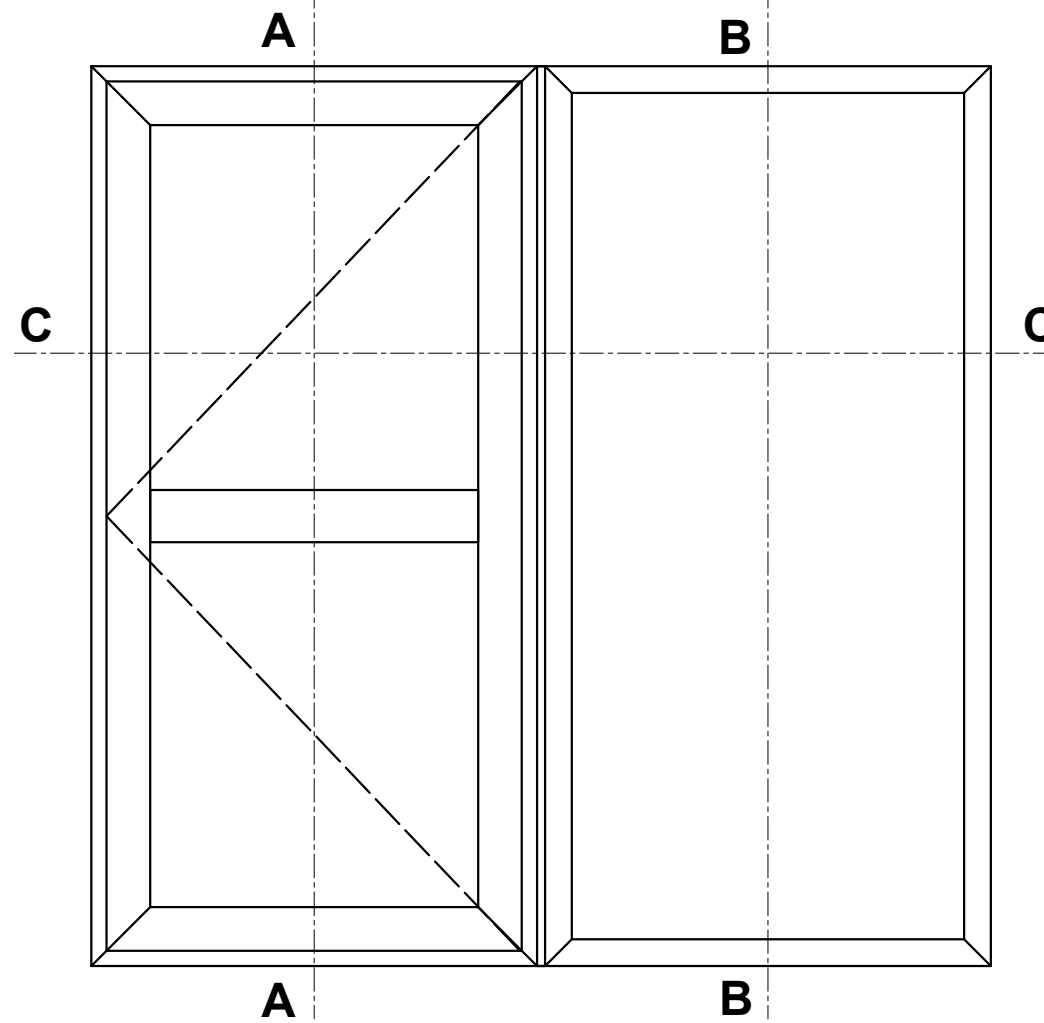
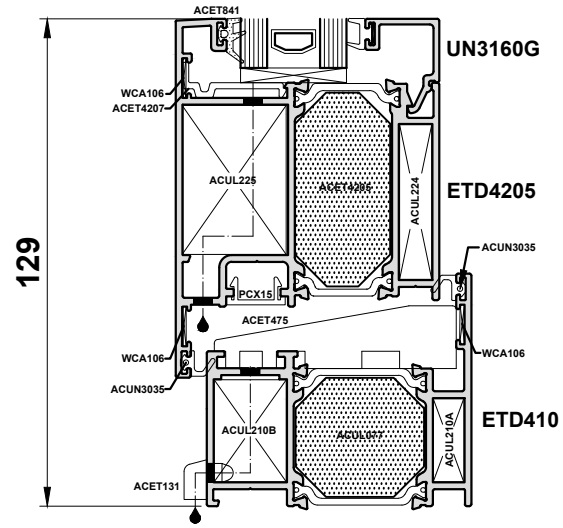
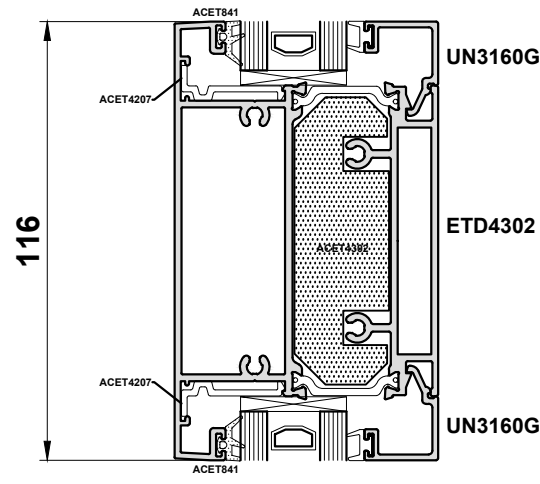
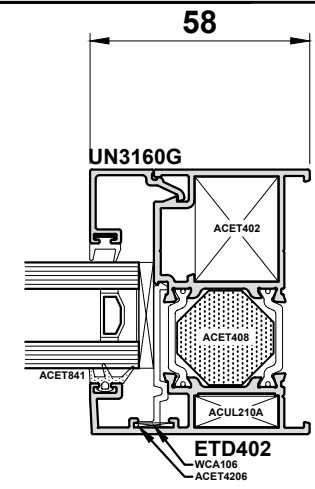
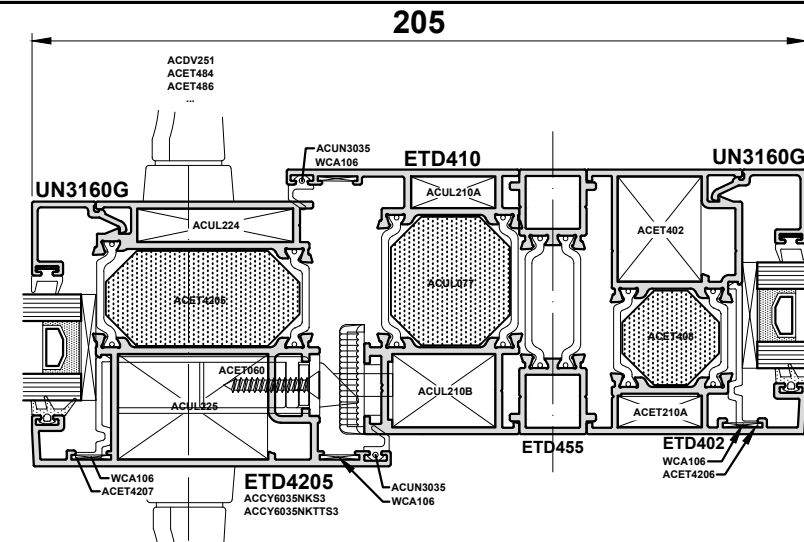
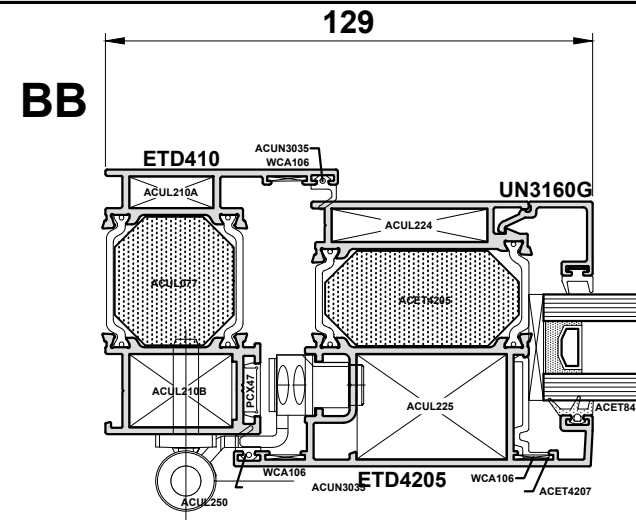
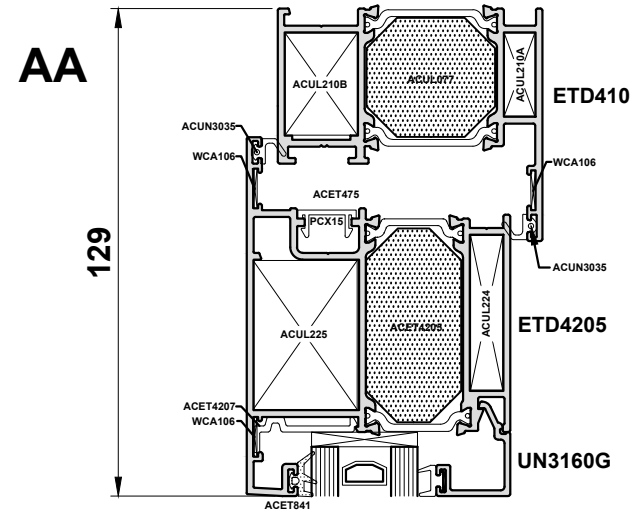
Fixing Strap Detail



**Note:**  
Fixing straps should be spaced a minimum of 150mm in from each end & at a maximum of 300mm apart.  
If using a cill i.e ETC452, please use ACUL232, ACUL233 or ACUL234 fixing strap.

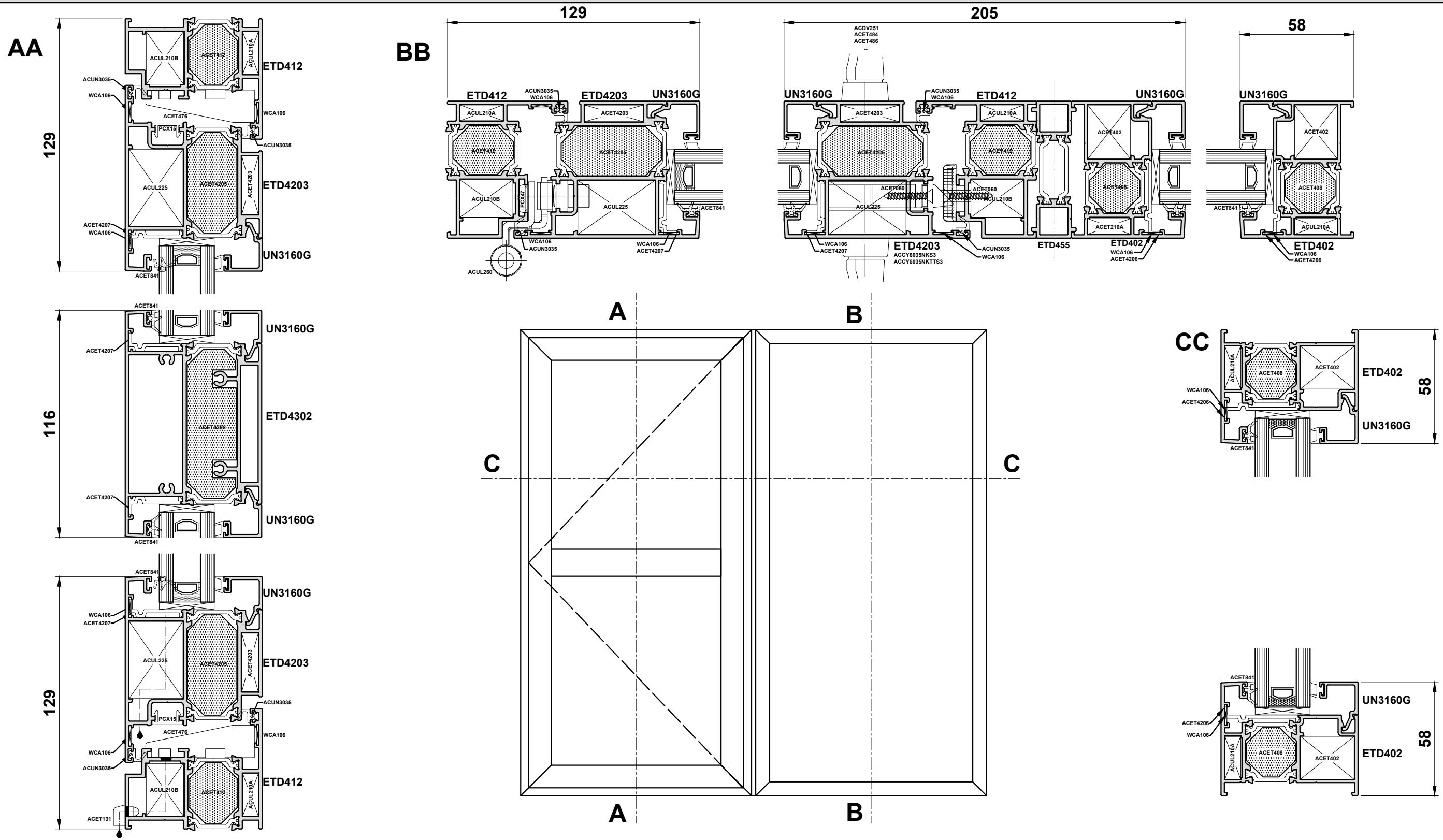
Do Not Scale From This Drawing

Example Layout



Do Not Scale From This Drawing

## Flush Example Layout



Do Not Scale From This Drawing

**Example Layout**

Do Not Scale From This Drawing



**Section F**



**Sawing Tables**

**Open In**

Single Door..... F03 - F10

Double Door Lift Lever..... F11 - F15

Double Door Finger Bolt..... F16 - F20

**Open Out**

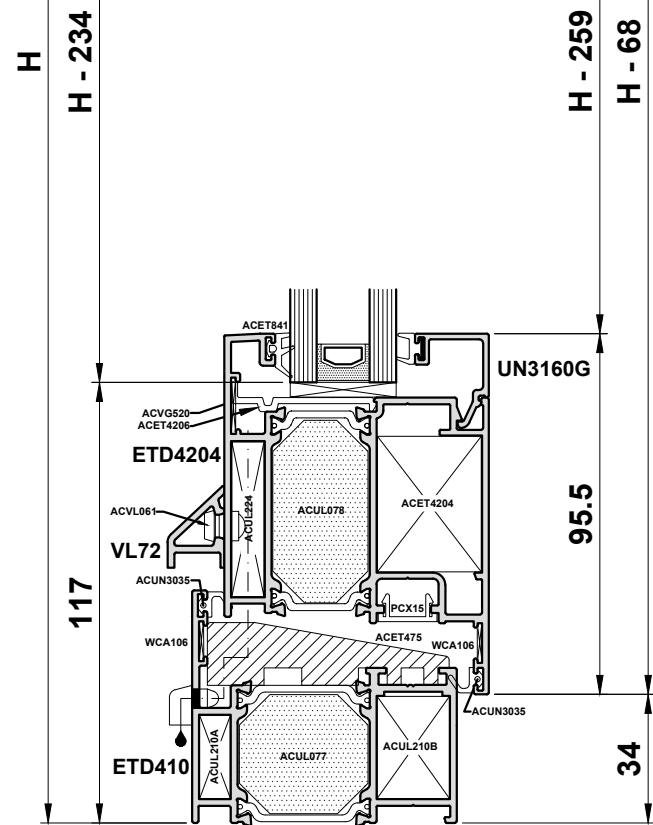
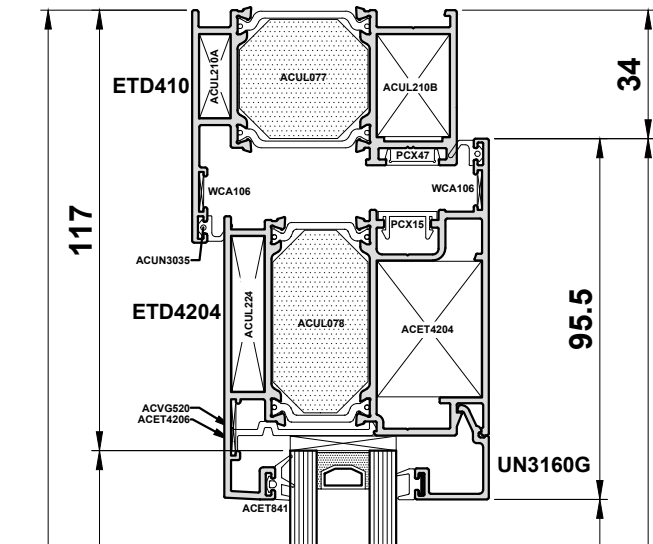
Single Door..... F21 - F24

Double Door Lift Lever..... F25 - F28

Double Door Finger Bolt..... F28 - F32

**Section F**

Open In Single Door Full Frame



Profile Cutting Schedule				
ETD410	2			W
ETD410	2			H
ETD4204	2			W - 68
ETD4204	2			H - 68
UN3160G	2			H - 259
UN3160G	2			W - 225
PCX15	2			H - 106
PCX15	2			W - 106
PCX47	2			H - 82
PCX47	2			W - 82
VL72	1			W - 139

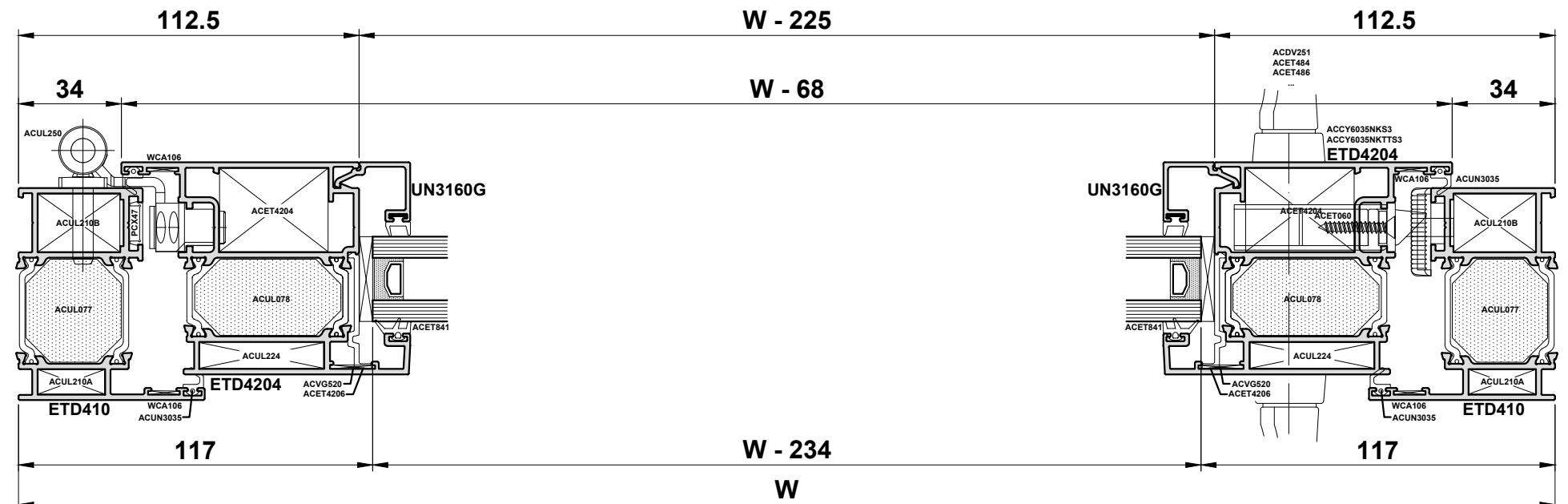
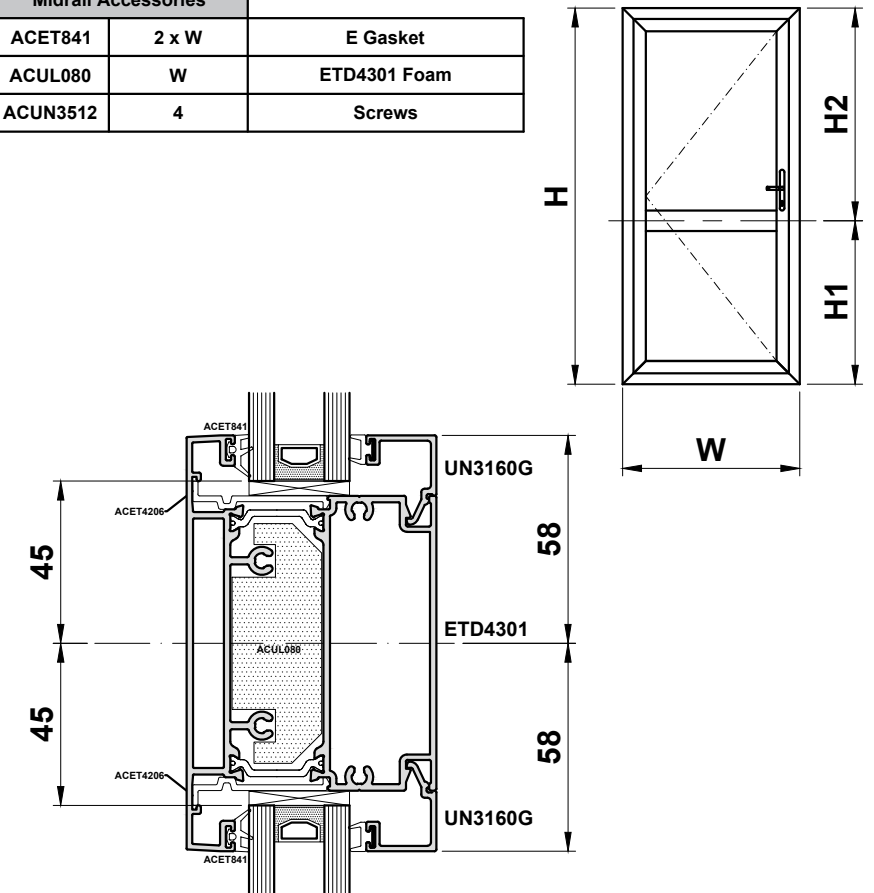
MIDRAIL				
ETD4301	1			W - 225
UN3160G	4			W - 225
UN3160G	2			H1 - 187.5
UN3160G	2			H2 - 187.5

Glass Sizes		
Without ETD430	H - 234	W - 234
Top Glass With ETD430	H2 - 162	W - 234
Bottom Glass With ETD430	H1 - 162	W - 234

Accessories		
ACCY6035S3	1	Euro Cylinder
**	**	Handles
ACET060	16	Screws for Lock
ACET131	2	Drainage Cap
ACET4204	4	Sash Cleat
ACET4206	10	Glass Packers
ACET475	2	Run Up Block
ACET841	2 x W & 2 x H	Gasket
ACIM062	12	Screw for ACUL250
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
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	Chevrons
*	1	Primary Lock

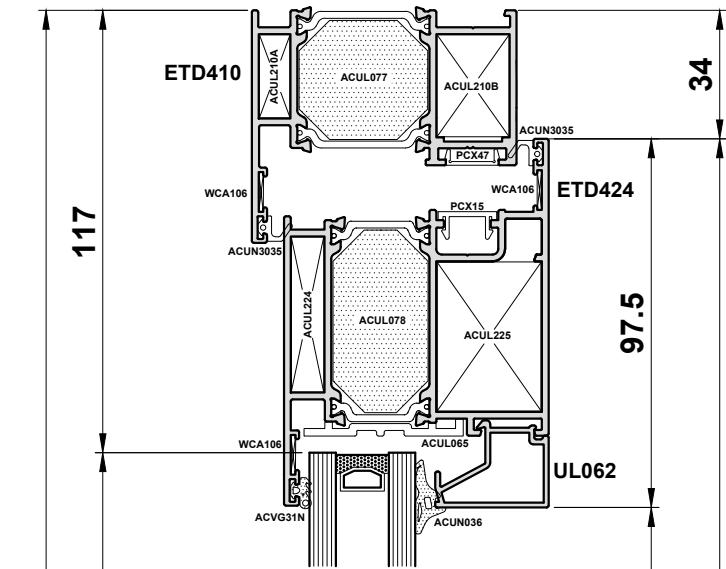
\*See Page E20 for lock options.  
\*\*See B & E for handle options.

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



Do Not Scale From This Drawing

**Open In Single Door Full Frame**



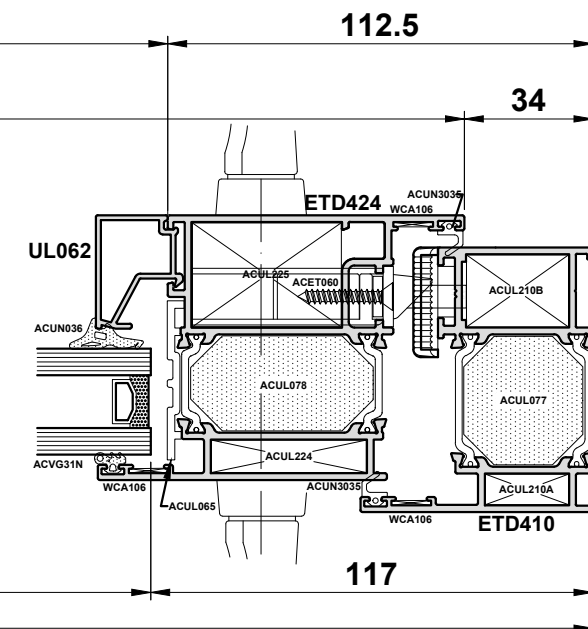
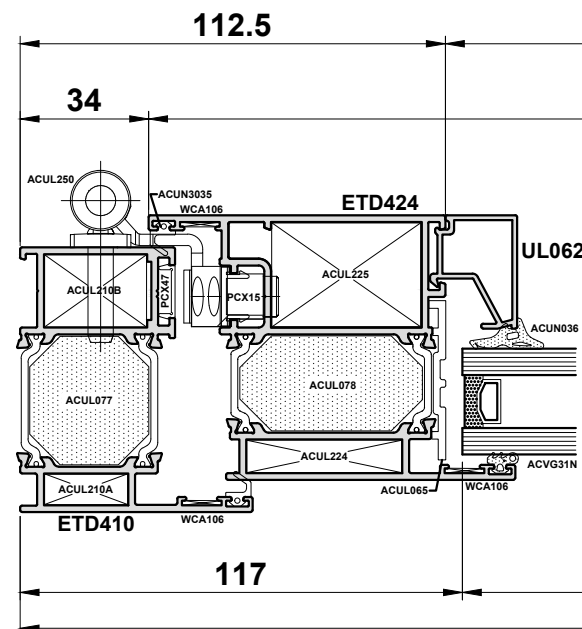
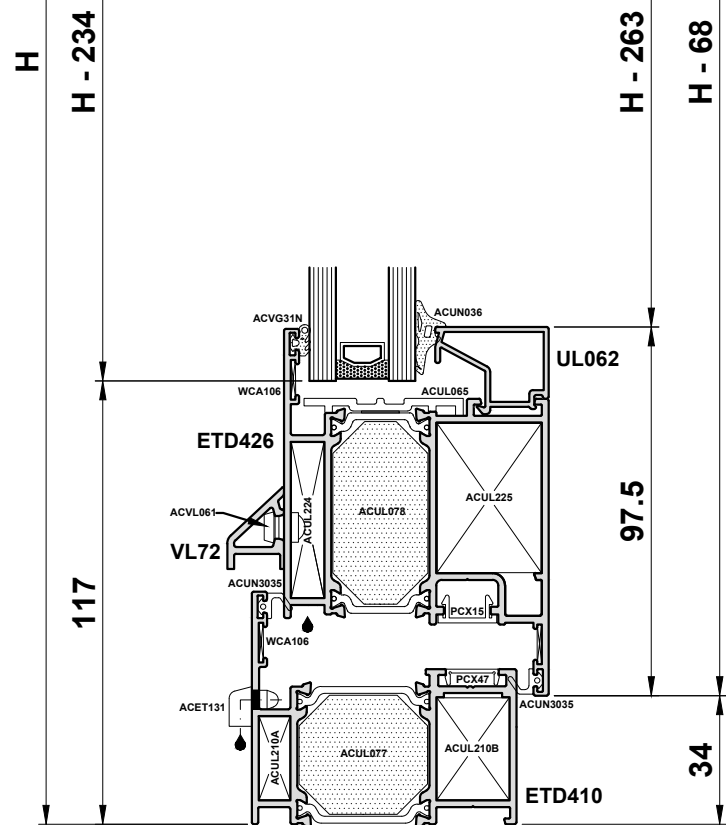
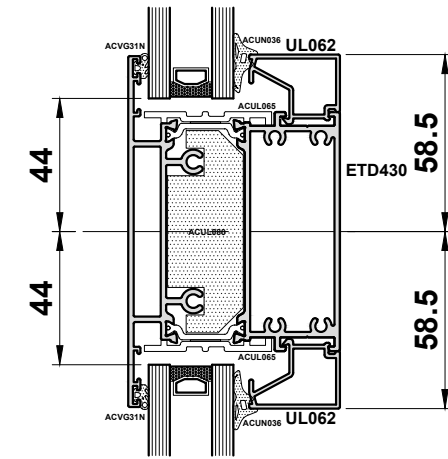
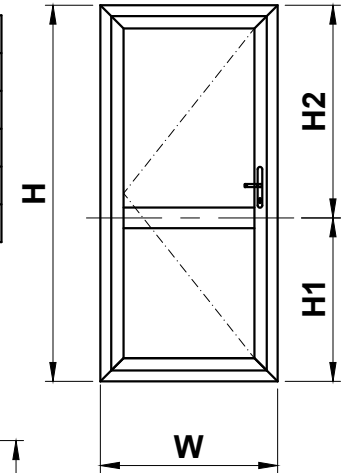
Profile Cutting Schedule					
ETD410	2				W
ETD410	2				H
ETD424	2				W - 68
ETD424	2				H - 68
BEAD	2				H - 263
BEAD	2				W - 225
PCX15	2				H - 106
PCX15	2				W - 106
PCX47	2				H - 82
PCX47	2				W - 82
VL72	1				W - 139

MIDRAIL					
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	Glass 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	Chevrons
*	1	Primary Lock

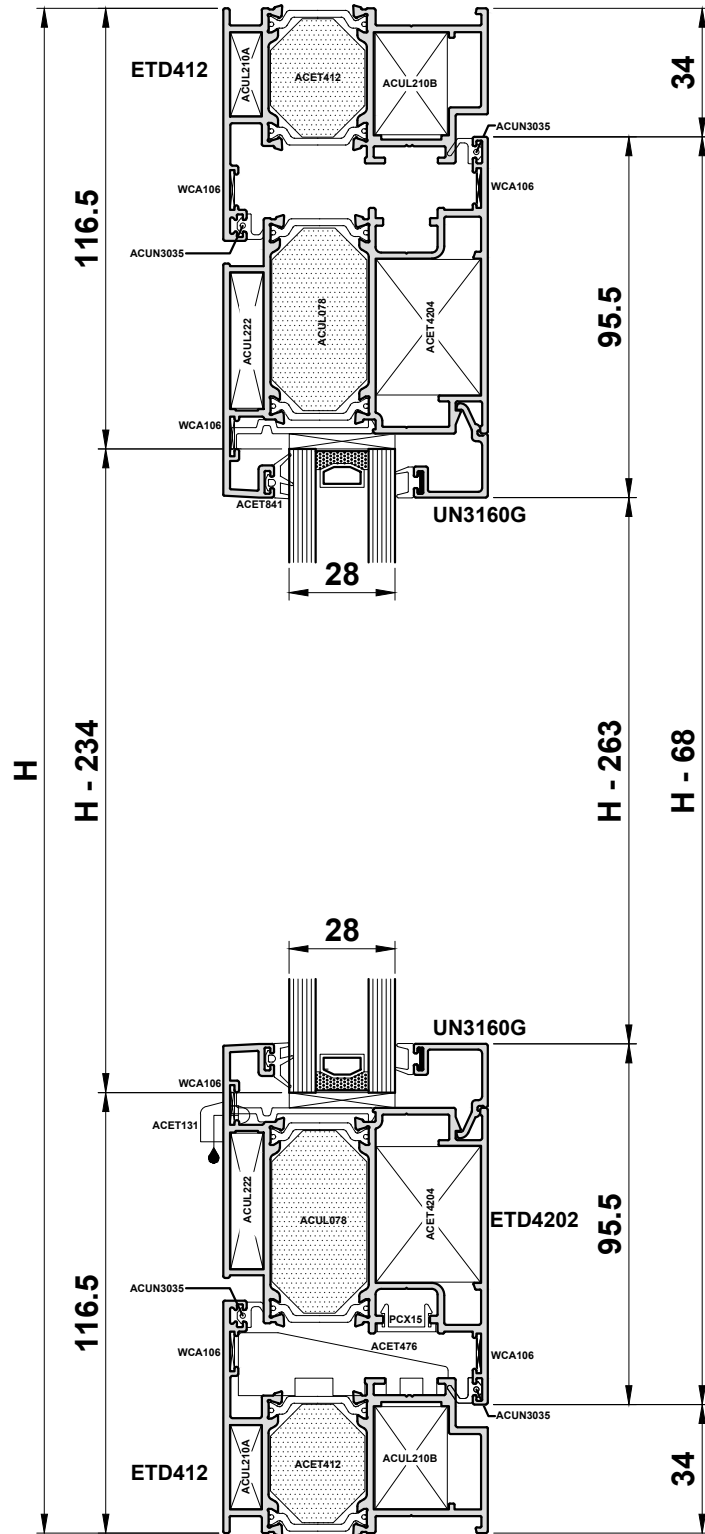
Midrail Accessories		
ACUL080	W	ETD430 Foam
ACUL025	4	Anti-Twist Clip
ACUL299	2	Bracket
ACUN036	2 x W	Wedge Gasket
ACUN3512	4	Screws
ACVG31N	2 x W	E Gasket



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

**Do Not Scale From This Drawing**

Flush Open In Single Door Full Frame



Profile Cutting Schedule				
ETD412	2			W
ETD412	2			H
ETD4202	2			W - 68
ETD4202	2			H - 68
UG3160G	2			H - 263
UG3160G	2			W - 225
PCX15	2			H - 106
PCX15	2			W - 106
PCX47	2			H - 82
PCX47	2			W - 82
VL72	1			W - 139

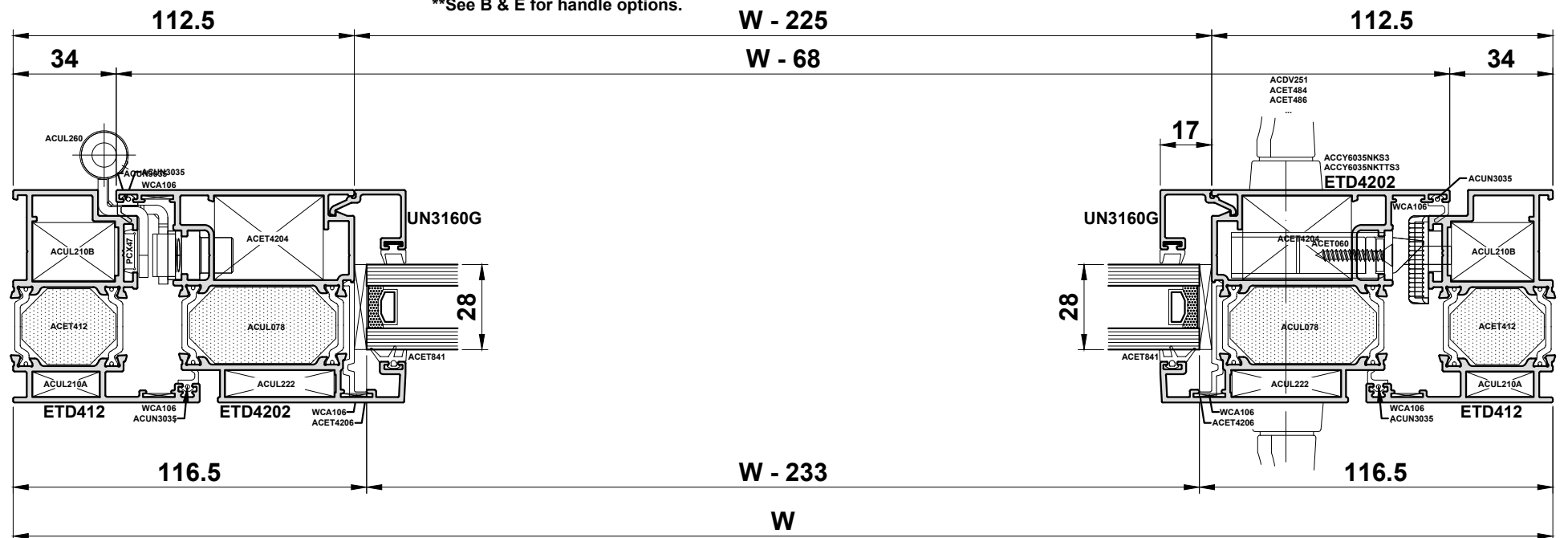
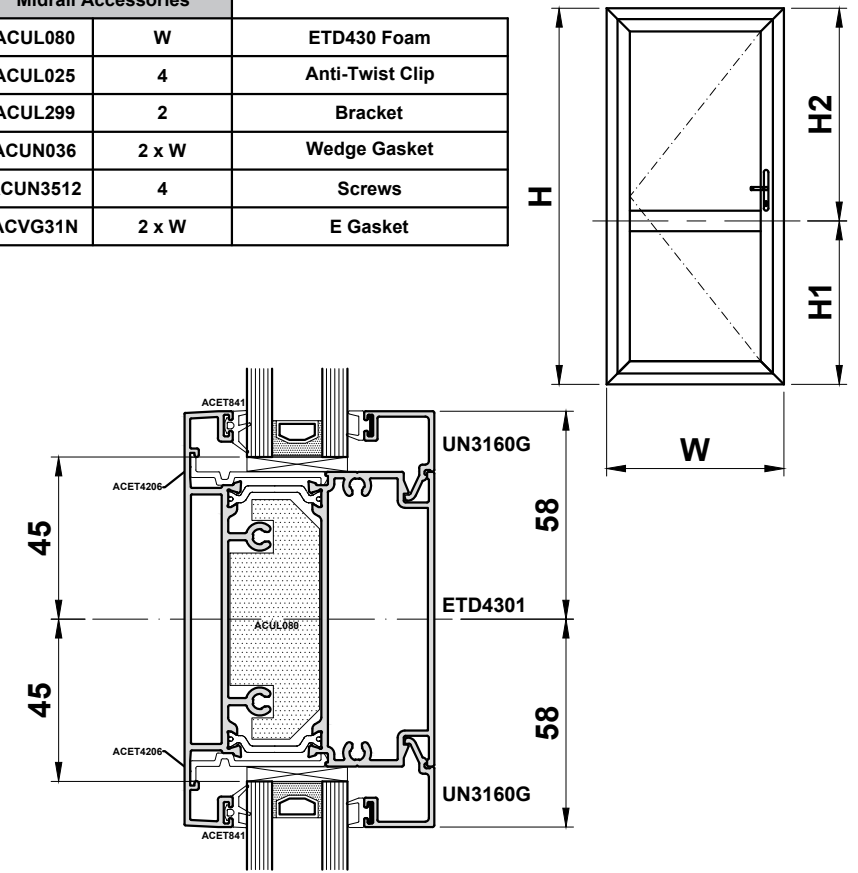
MIDRAIL				
ETD430	1			W - 225
UN3160G	4			W - 225
UN3160G	2			H1 - 190
UN3160G	2			H2 - 190

Glass Sizes		
Without ETD4301	H - 234	W - 233
Top Glass With ETD4301	H2 - 161	W - 233
Bottom Glass With ETD4301	H1 - 161	W - 233

Accessories		
ACCY6035S3	1	Euro Cylinder
**	**	Handles
ACET060	16	Screws for Lock
ACET131	2	Drainage Cap
ACET412	2 x W & 2 x H	Outer Frame Foam
ACET476	2	Run Up Block
...	...	Screw for ACUL260
ACUL065	10	Glass Packers
ACUL078	2 x W & 2 x H	Sash Foam
ACUL210A	4	Outer Frame Cleat
ACUL210B	4	Outer Frame Cleat
ACUL222	4	Sash Cleat
ACET4204	4	Sash Cleat
ACUL260	3	Hinge
ACUN036	2 x W & 2 x H	Wedge Gasket
ACUN3035	4 x W & 4 x H	Flipper Gasket
...	...	Screw for ACUL260
ACVG31N	2 x W & 2 x H	E Gasket
ACVL059 / ACVL072	1 Pair	VL72 End Cap
ACVL061	W/300 + 2	VL72 Rivet
WCA106	12	Chevrons
*	1	Primary Lock

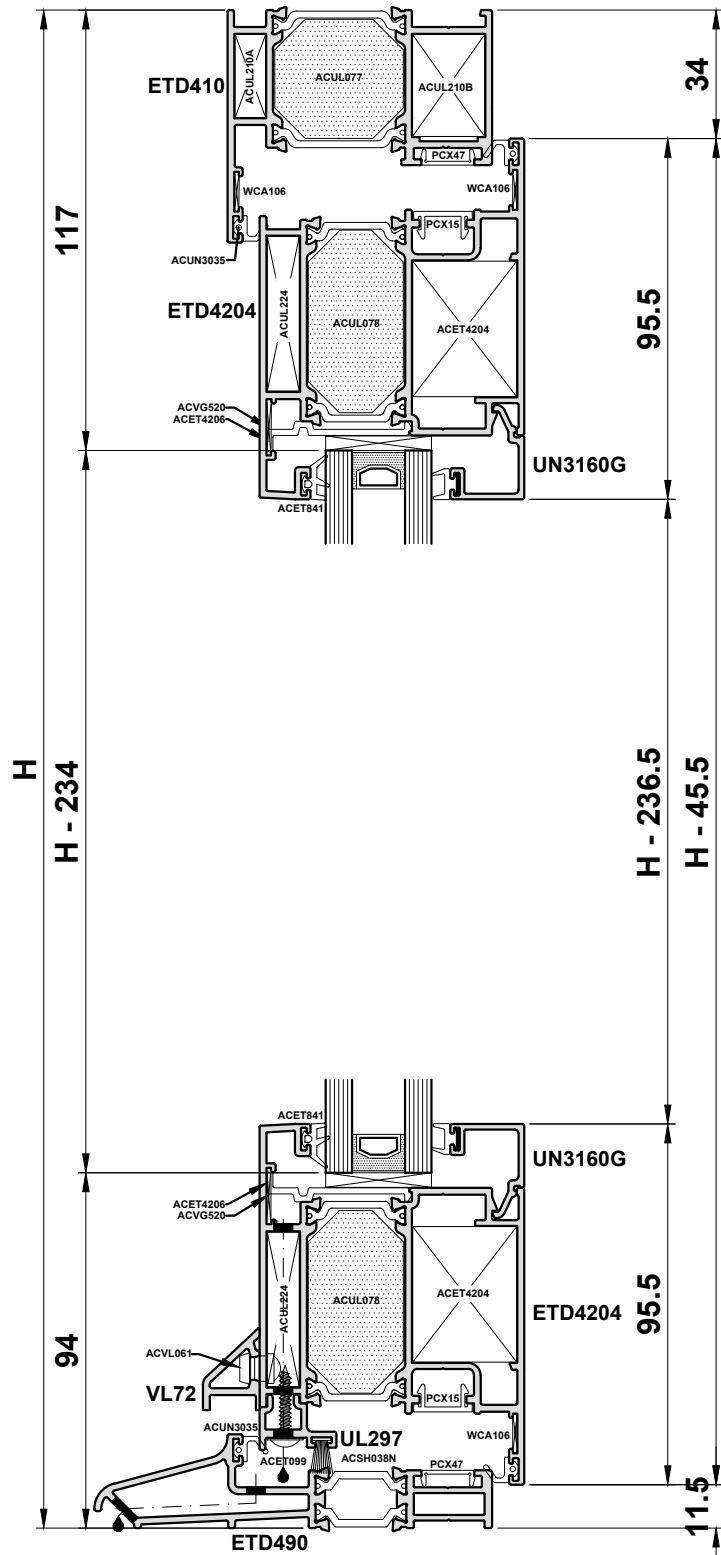
\*See Page E20 for lock options.  
\*\*See B & E for handle options.

Midrail Accessories		
ACUL080	W	ETD430 Foam
ACUL025	4	Anti-Twist Clip
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 Low Rebate Threshold**



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 - 139

MIDRAIL				
ETD4302	1			W - 225
UN3160G	4			W - 225
UN3160G	2			H1 - 165
UN3160G	2			H2 - 187.5

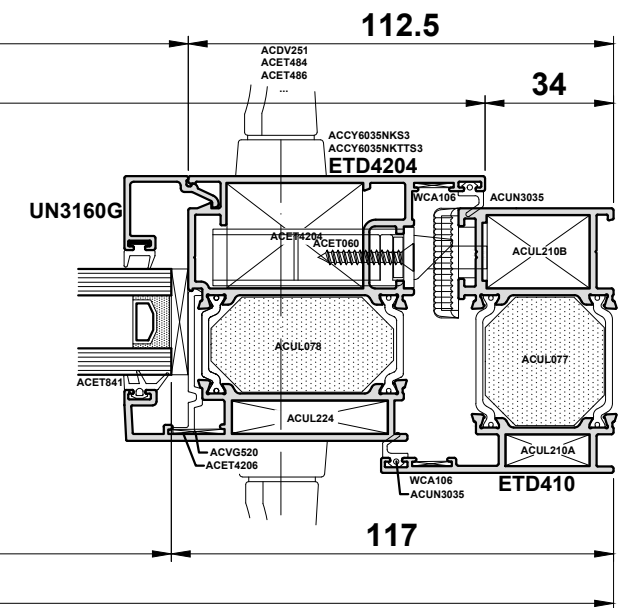
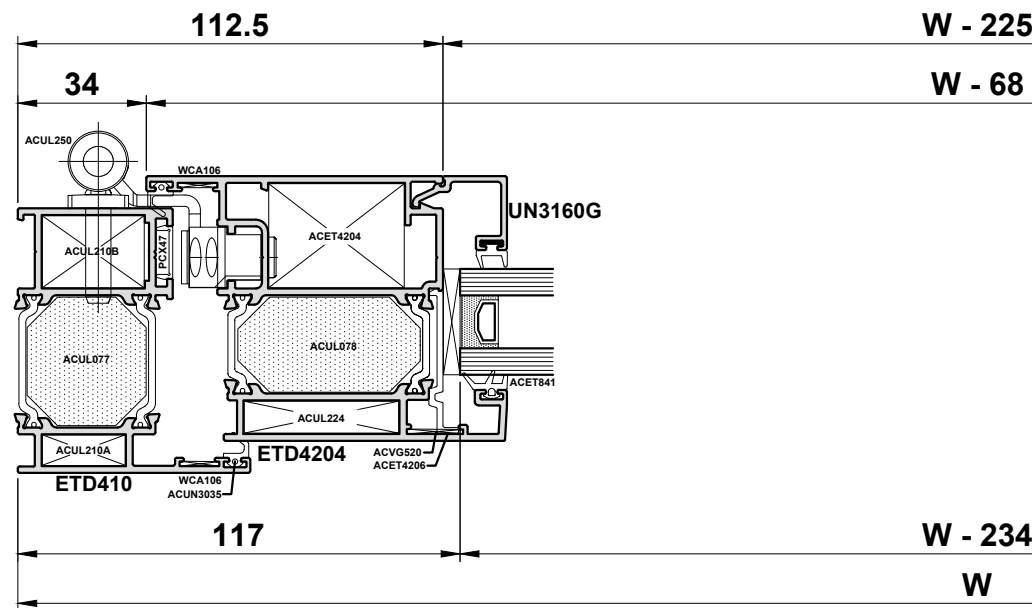
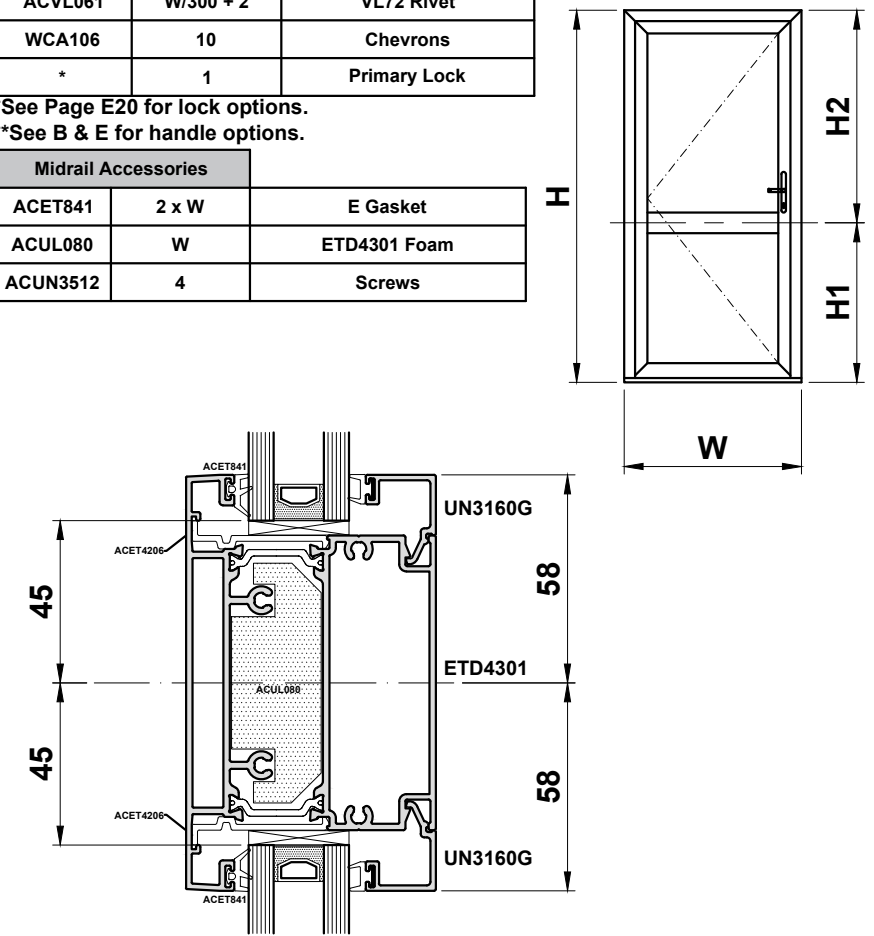
Glass Sizes		
Without ETD430	H - 211	W - 234
Top Glass With ETD430	H2 - 162	W - 234
Bottom Glass With ETD430	H1 - 139	W - 234

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	Glass Packers
ACET475	2	Run Up Block
ACET841	2 x W & 2 x H	E Gasket
ACIM062	12	Screw for ACUL250
ACSH038N	W	Woolpile
ACUL025	2	Anti-Twist Clip
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.

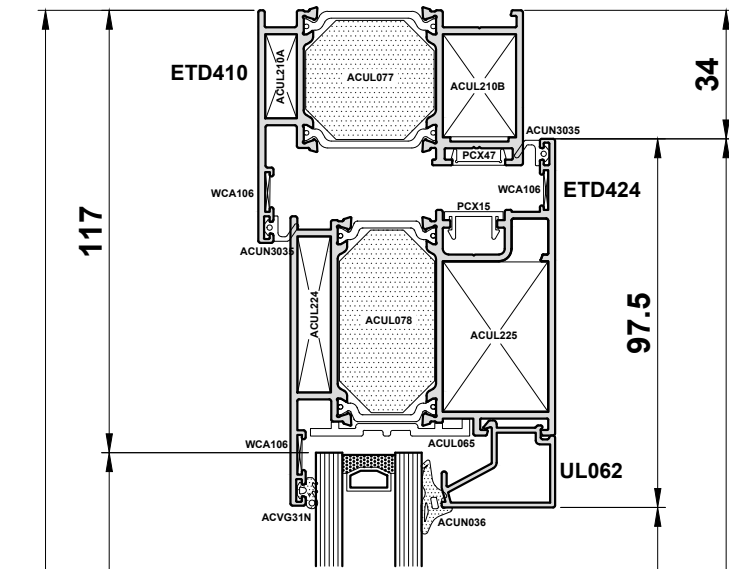
Midrail Accessories		
ACET841	2 x W	E Gasket
ACUL080	W	ETD4301 Foam
ACUN3512	4	Screws



Do Not Scale From This Drawing



**Open In Single Door 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 - 139

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

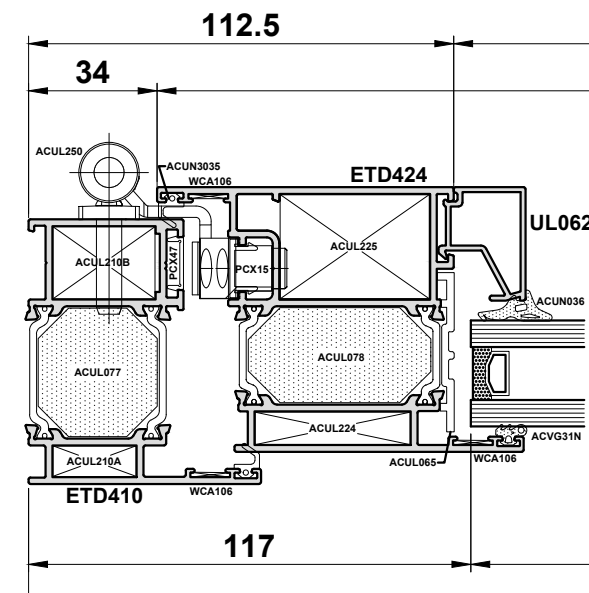
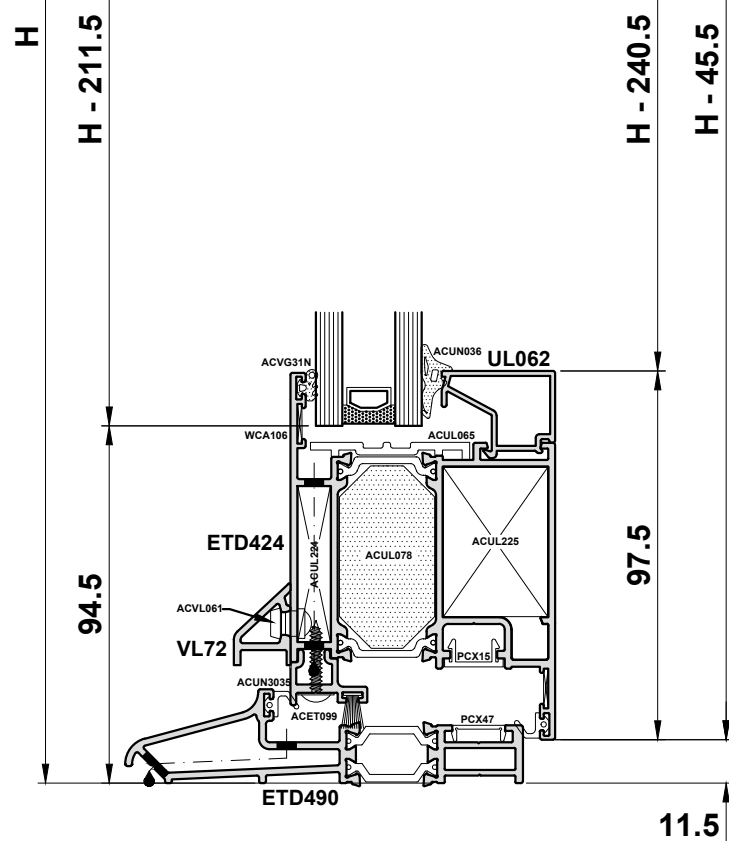
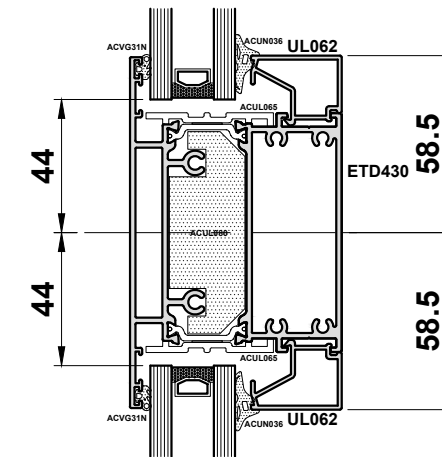
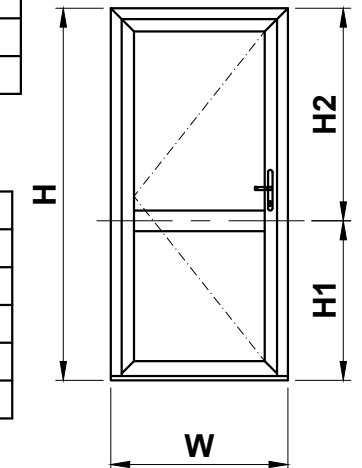
Glass Sizes		
Without ETD430	H - 211.5	W - 234
Top Glass With ETD430	H2 - 161	W - 234
Bottom Glass With ETD430	H1 - 138.5	W - 234

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	Glass 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

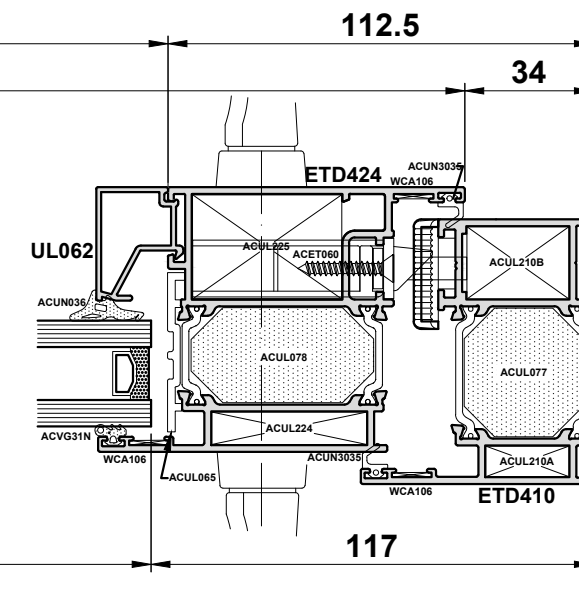
ACVL061	W/300 + 2	VL72 Rivet
WCA106	10	Chevrons
*	1	Primary Lock

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

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



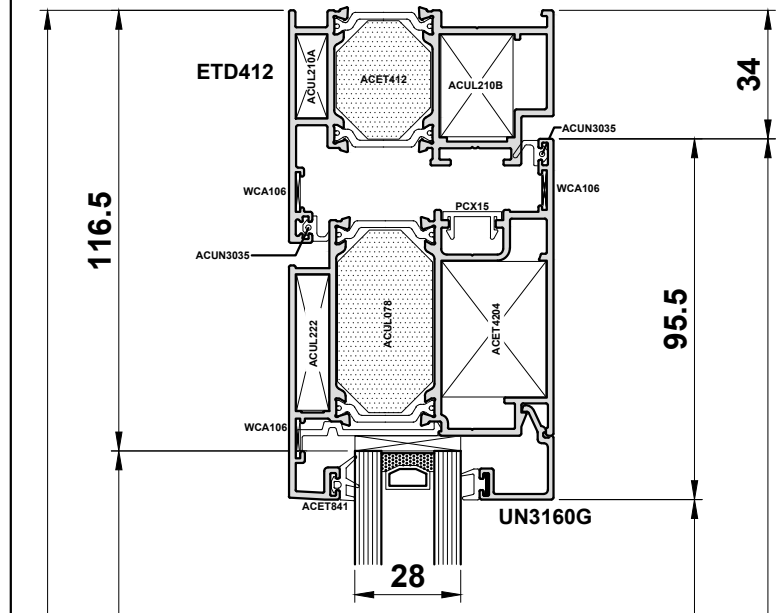
W - 225  
W - 68



W - 234  
W

**Do Not Scale From This Drawing**

Open In Single Door Low Rebate Threshold

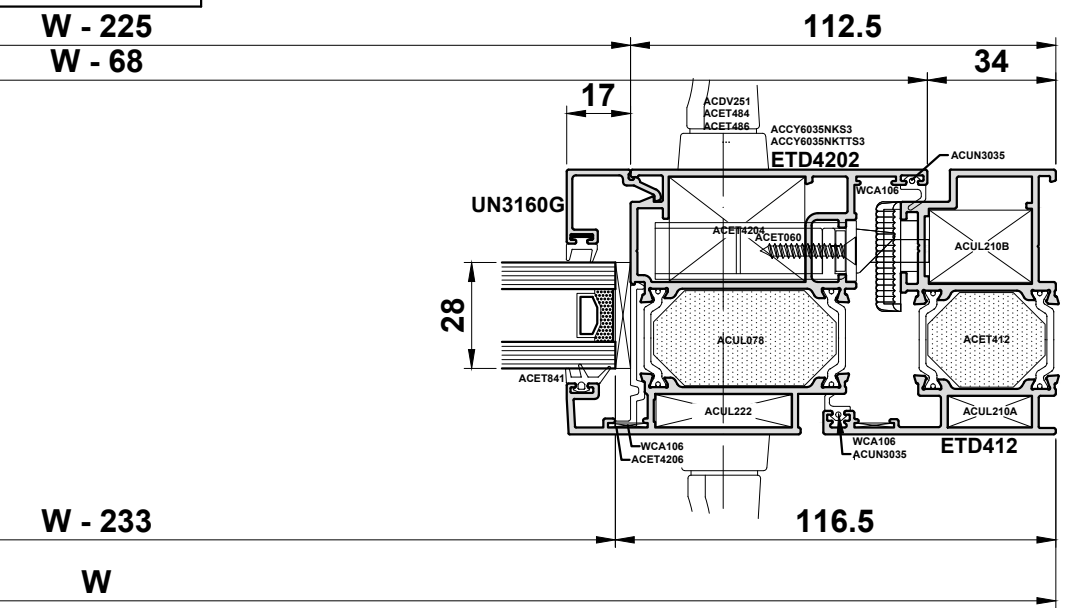
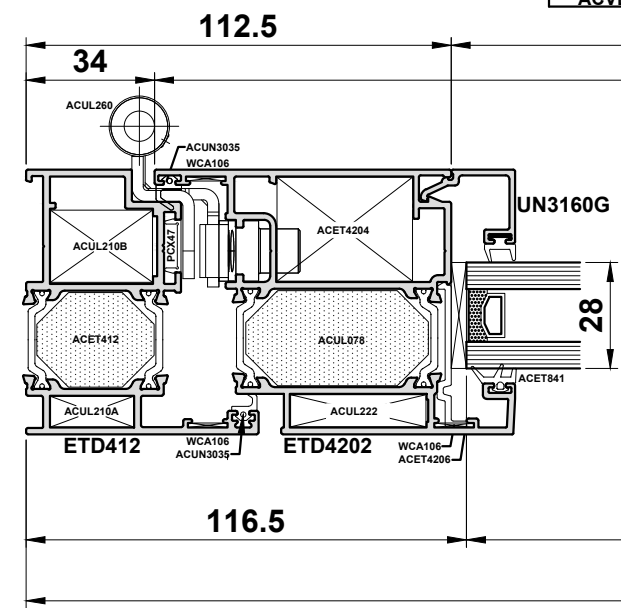
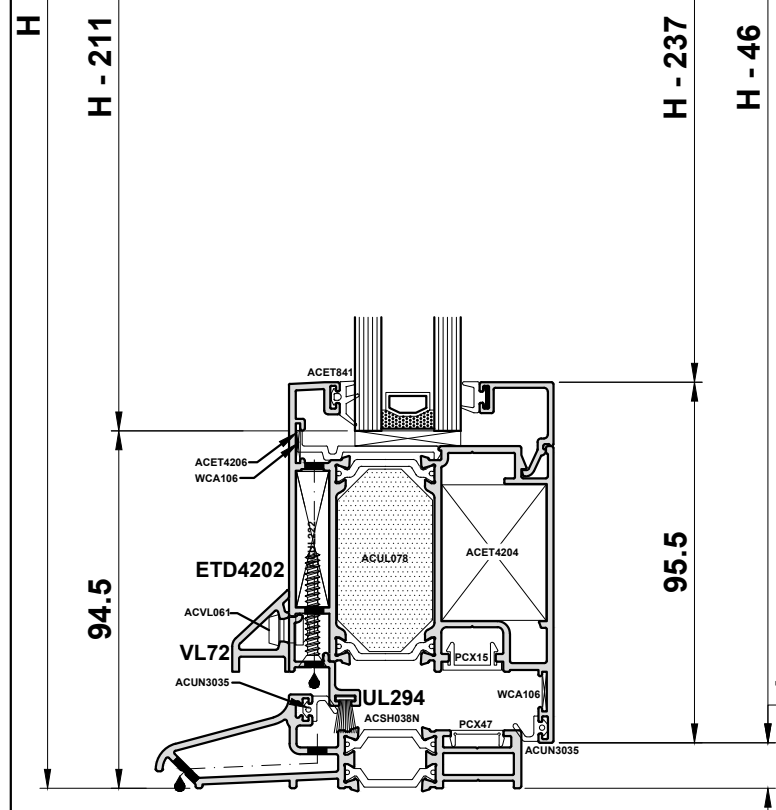
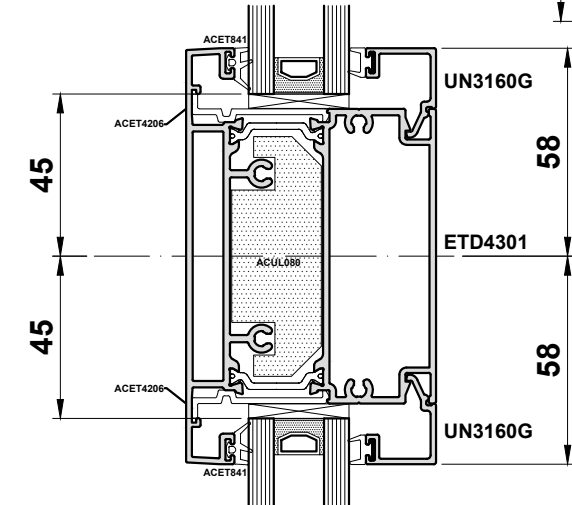
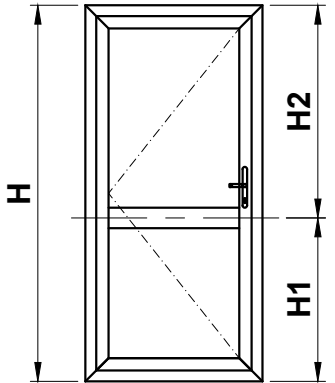


Profile Cutting Schedule				
ETD412	2			W
ETD412	1			H
ETD490	1			W
ETD4202	2			W - 68
ETD4202	2			H - 68
UG3160G	2			H - 263
UG3160G	2			W - 225
PCX15	2			H - 106
PCX15	2			W - 106
PCX47	2			H - 82
PCX47	2			W - 82
VL72	1			W - 139
MIDRAIL				
ETD4301	1			W - 225
UN3160G	4			W - 225
UN3160G	2			H1 - 190
UN3160G	2			H2 - 190

Glass Sizes		
Without ETD4301	H - 211	W - 233
Top Glass With ETD4301	H2 - 161.5	W - 233
Bottom Glass With ETD4301	H1 - 139.5	W - 233

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
ACET476	2	Run Up Block
ACIM062	12	Screw for ACUL250
ACSH038N	W	Woolpile
ACUL025	2	Anti-Twist Clip
ACUL4206	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
ACUL222	4	Sash Cleat
ACUL4204	4	Sash Cleat
ACUL260	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

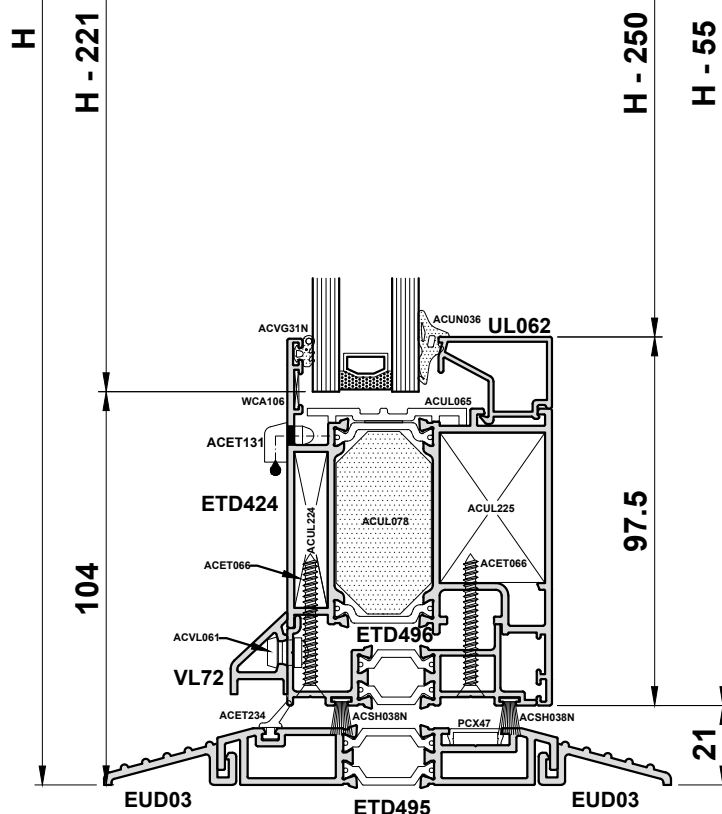
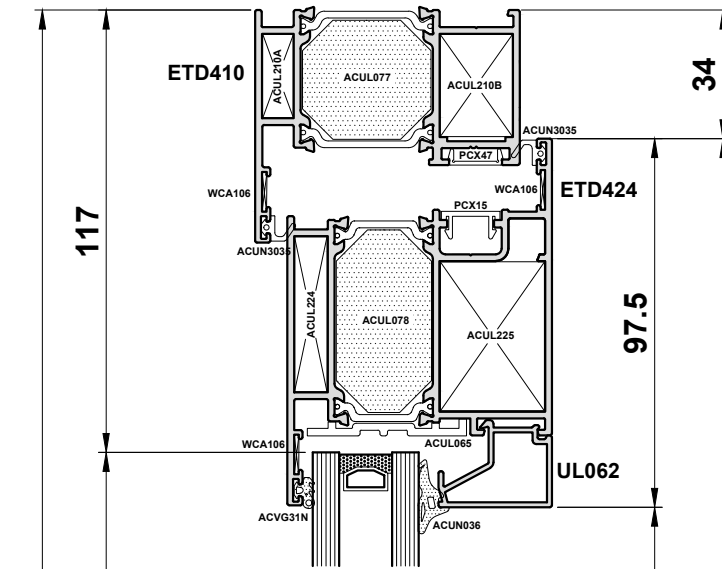
Midrail Accessories		
ACUL080	W	ETD4301 Foam
ACUL025	4	Anti-Twist Clip
ACUL299	2	Bracket
ACUN036	2 x W	Wedge Gasket
ACUN3512	4	Screws
ACVG31N	2 x W	E Gasket



Do Not Scale From This Drawing



**Open In Single Door Low Ramp Threshold**



Profile Cutting Schedule				
ETD410	1			W
ETD410	2			H - 15
ETD495	1			W
EUD03	2			W
ETD424	2			W - 68
ETD424	2			H - 55
ETD496	1			W - 115
BEAD	2			H - 250
BEAD	2			W - 225
PCX15	2			H - 68.5
PCX15	1			W - 106
PCX47	2			H - 56
PCX47	2			W - 82
VL72	1			W - 139

MIDRAIL				
ETD430	1			W - 225
BEAD	4			W - 225
BEAD	2			H1 - 177
BEAD	2			H2 - 190

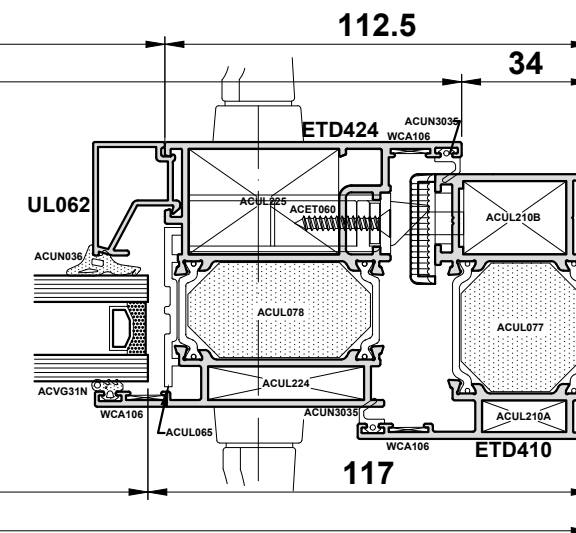
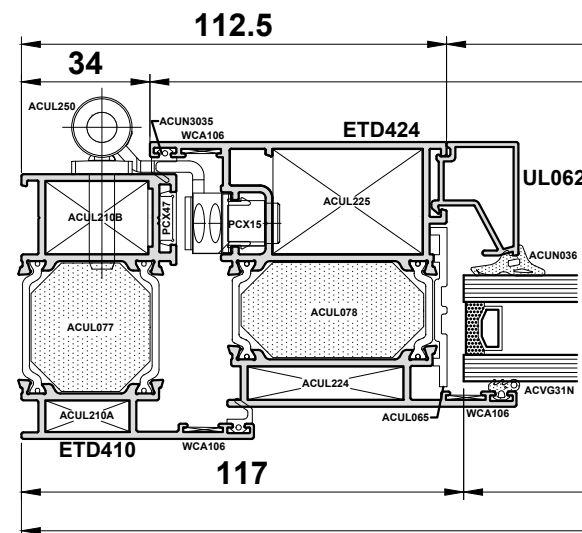
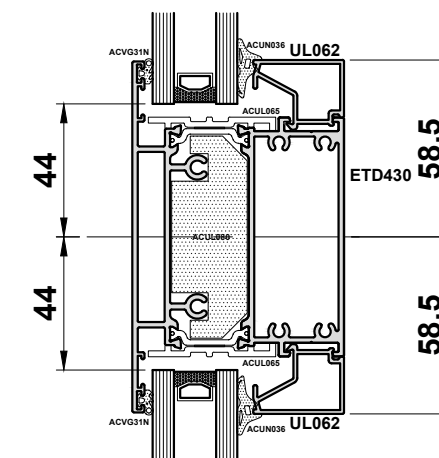
Glass Sizes		
Without ETD430	H - 221	W - 234
Top Glass With ETD430	H2 - 161	W - 234
Bottom Glass With ETD430	H1 - 138.5	W - 234

Accessories		
ACCY6035S3	1	Euro Cylinder
**	**	Handles
ACSH038N	2 x W - 115	Woolpile
ACET060	4	Screw for ACET4195
ACET060	16	Screw for Lock
ACET066	2 x W - 100 / 300	Fixing Screw for ETD496
ACET234	1 x W	Flipper Gasket
ACET4195	Pair	ETD495 End Cap
ACET4196	Pair	ETD496 End Cap
ACET475	2	Run Up Block
ACIM062	12	Screw for ACUL250
ACSH038N	2 x W	Brush Pile
ACUL065	10	Glass 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	2 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	10	Chevrons
*	1	Primary Lock

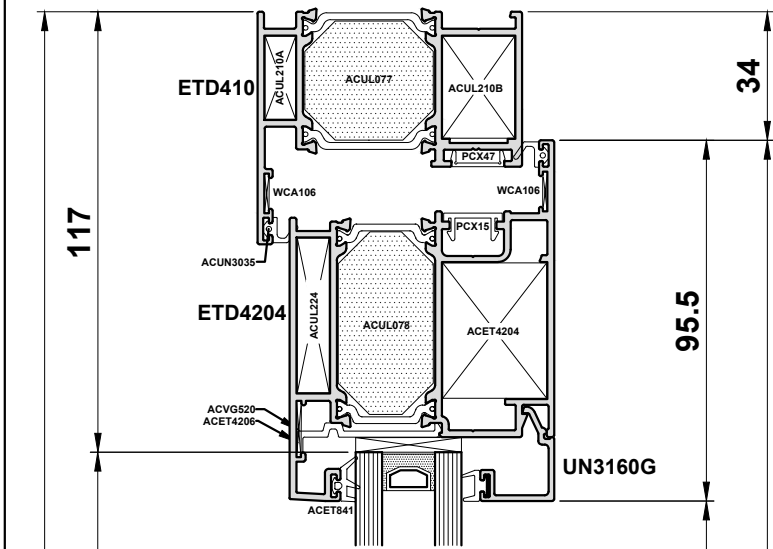
\*See Page E20 for lock options.  
\*\*See B & E for handle options.

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



Do Not Scale From This Drawing

Open In Single Door Low Ramp Threshold



Profile Cutting Schedule				
ETD410	1			W
ETD410	2			H - 15
ETD495	1			W
EUD03	2			W
ETD4204	2			W - 68
ETD4204	2			H - 55
ETD496	1			W - 115
UN3160G	2			H - 246
UN3160G	2			W - 225
PCX15	2			H - 68.5
PCX15	1			W - 106
PCX47	2			H - 56
PCX47	2			W - 82
VL72	1			W - 139

MIDRAIL				
ETD4302	1			W - 225
UN3160G	4			W - 225
UN3160G	2			H1 - 174.5
UN3160G	2			H2 - 187.5

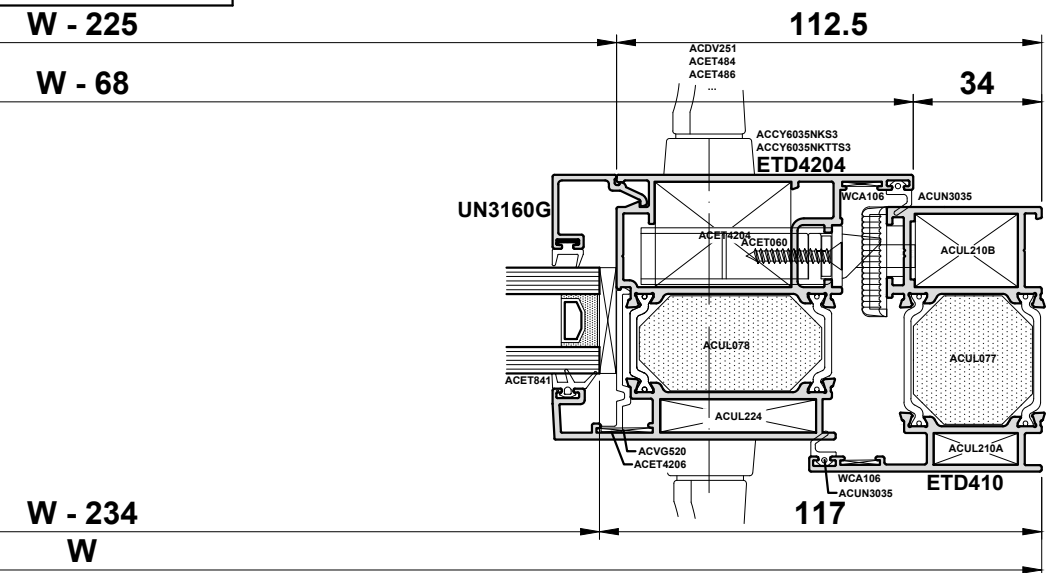
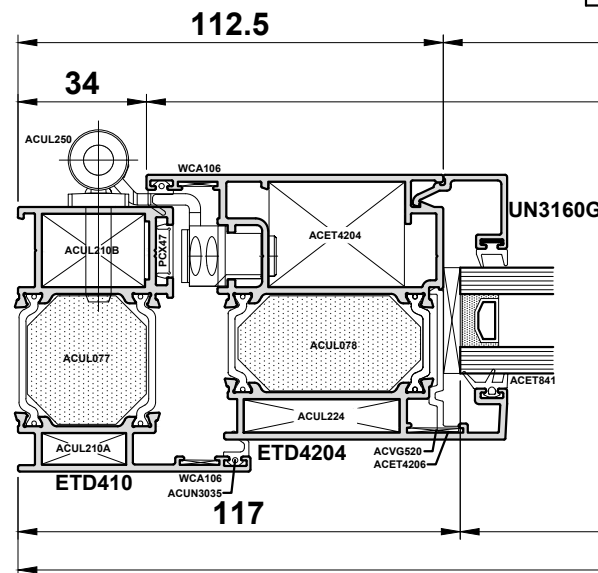
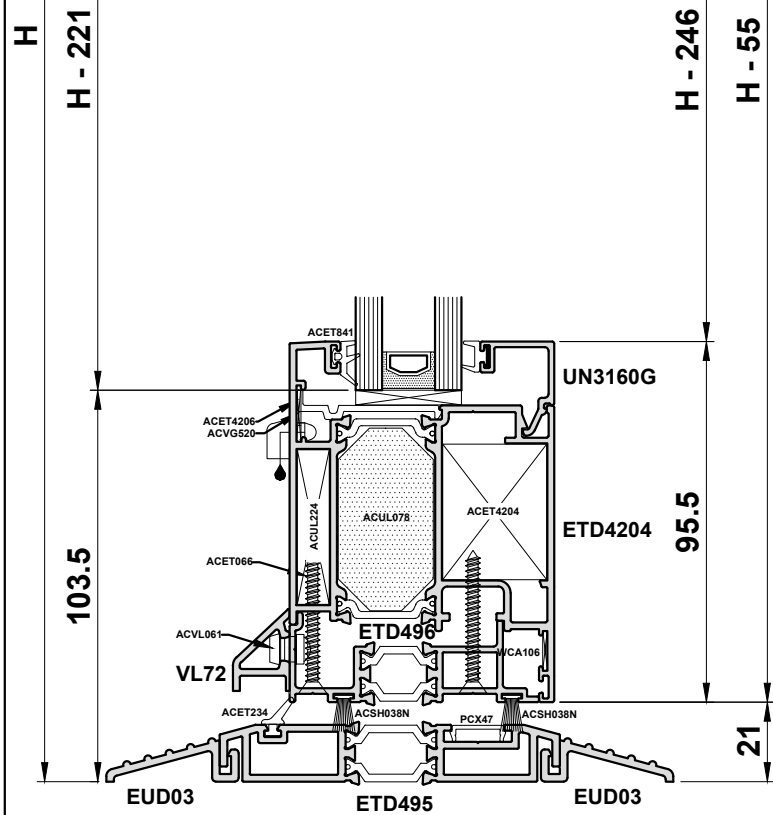
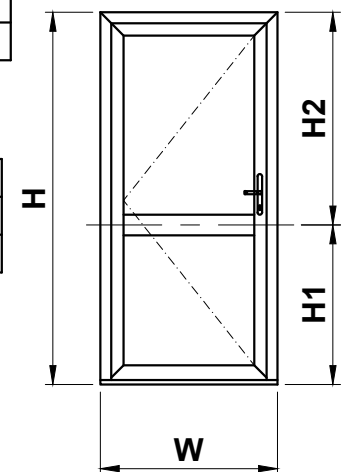
Glass Sizes		
Without ETD430	H - 221	W - 234
Top Glass With ETD430	H2 - 161	W - 234
Bottom Glass With ETD430	H1 - 138.5	W - 234

Accessories		
ACCY6035S3	1	Euro Cylinder
**	**	Handles
ACSH038N	2 x W - 115	Woolpile
ACET060	4	Screw for ACET4195
ACET060	16	Screw for Lock
ACET066	2 x W - 100 / 300	Fixing Screw for ETD496
ACET234	1 x W	Flipper Gasket
ACET4195	Pair	ETD495 End Cap
ACET4196	Pair	ETD496 End Cap
ACET4204	4	Sash Cleat
ACET4206	10	Glass Packers
ACET475	2	Run Up Block
ACET841	2 x W & 2 x H	E Gasket
ACIM062	12	Screw for ACUL250
ACSH038N	2 x W	Brush Pile
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	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

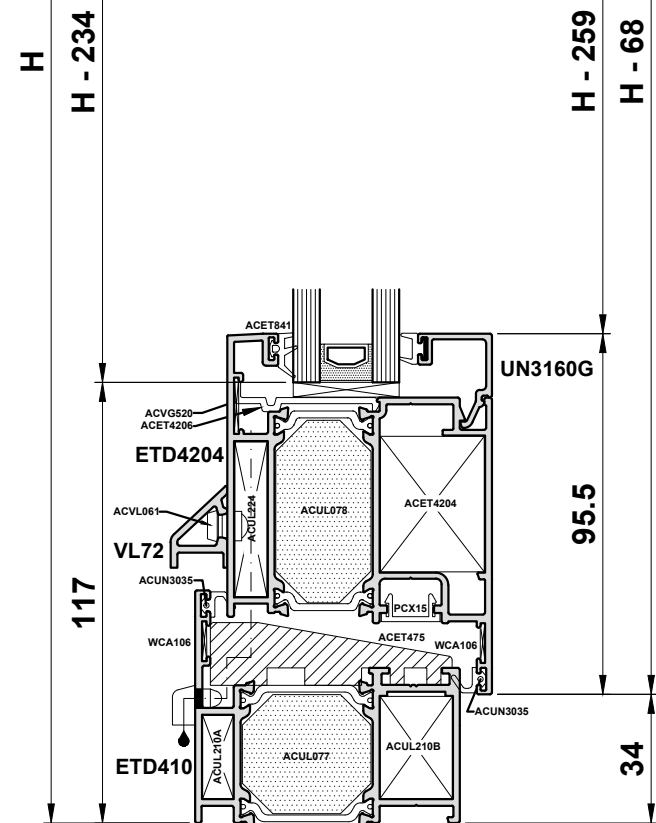
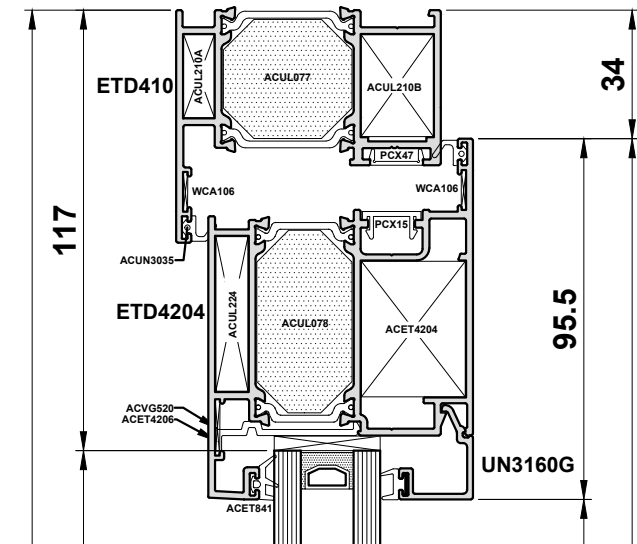
\*See Page E20 for lock options.  
\*\*See B & E for handle options.

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



Do Not Scale From This Drawing

Open In Double Door Lift Lever Full Frame



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 - 107.5

MIDRAIL				
ETD4302	1			W - 225
UN3160G	4			W / 2 - 193.5
UN3160G	2			H1 - 187.5
UN3160G	2			H2 - 187.5

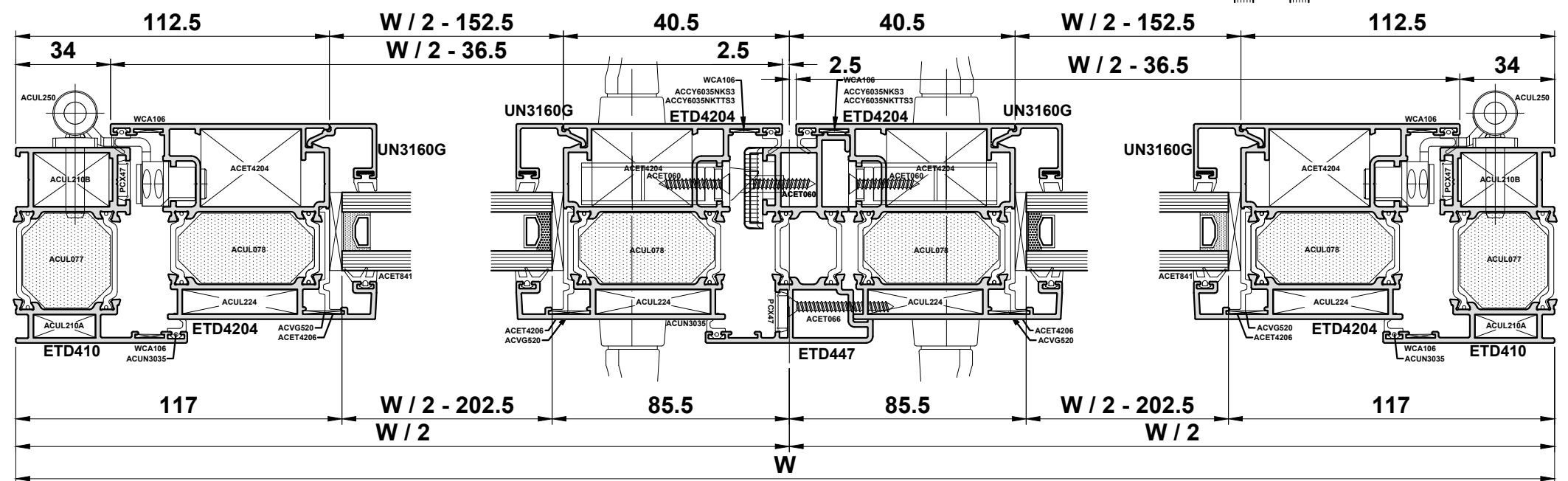
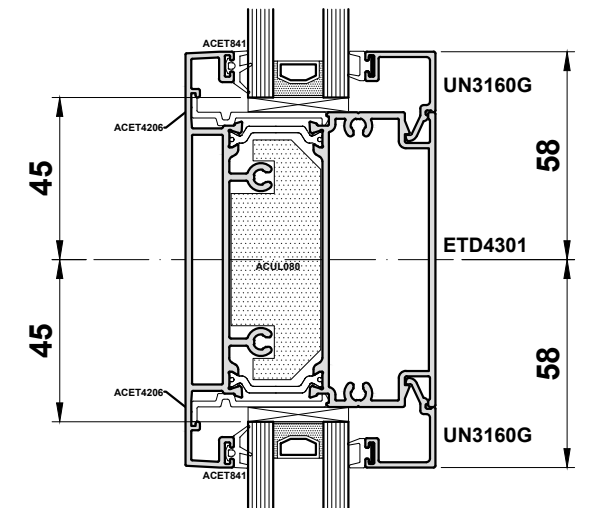
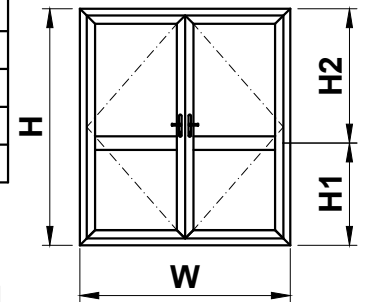
Glass Sizes		
Without ETD430	H - 234	W / 2 - 202.5
Top Glass With ETD430	H2 - 162	W / 2 - 202.5
Bottom Glass With ETD430	H1 - 162	W / 2 - 202.5

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	Glass Packers
ACET475	4	Run Up Block
ACET841	4 x W / 2 & 4 x H	E Gasket
ACIM062	24	Screw for ACUL250
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	Chevrans

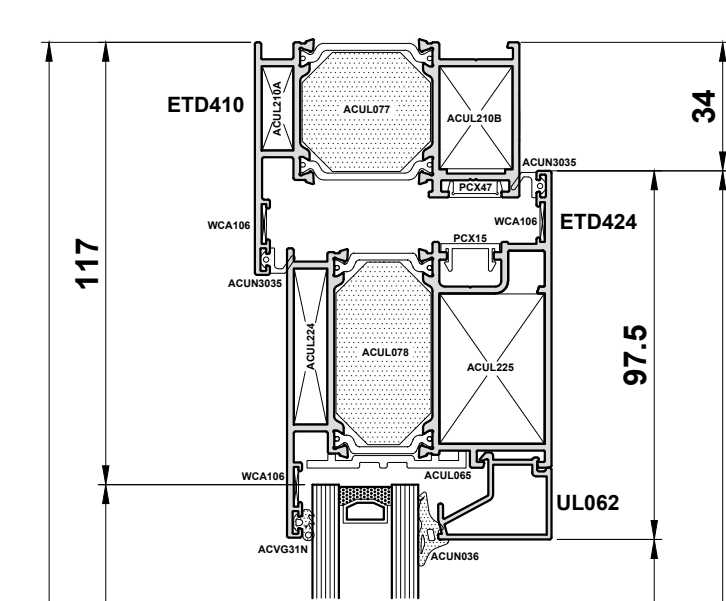
\*See Page E20 for lock options.  
\*\*See B & E for handle options.

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



Do Not Scale From This Drawing

Open In Double Door Lift Lever Full Frame



Profile Cutting Schedule				
ETD410	2			W
ETD410	2			H
ETD424	4			W / 2 - 36.5
ETD424	4			H - 68
ETD447	1			H - 110
BEAD	4			H - 263
BEAD	4			W / 2 - 193.5
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 - 107.5

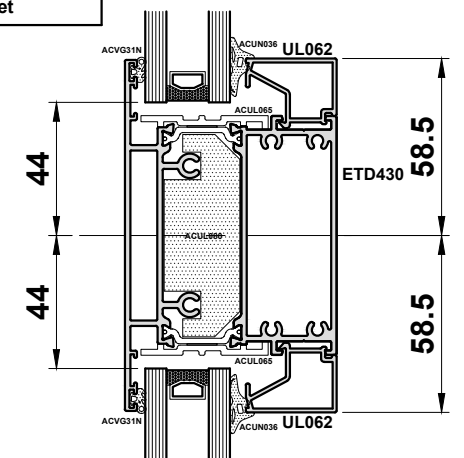
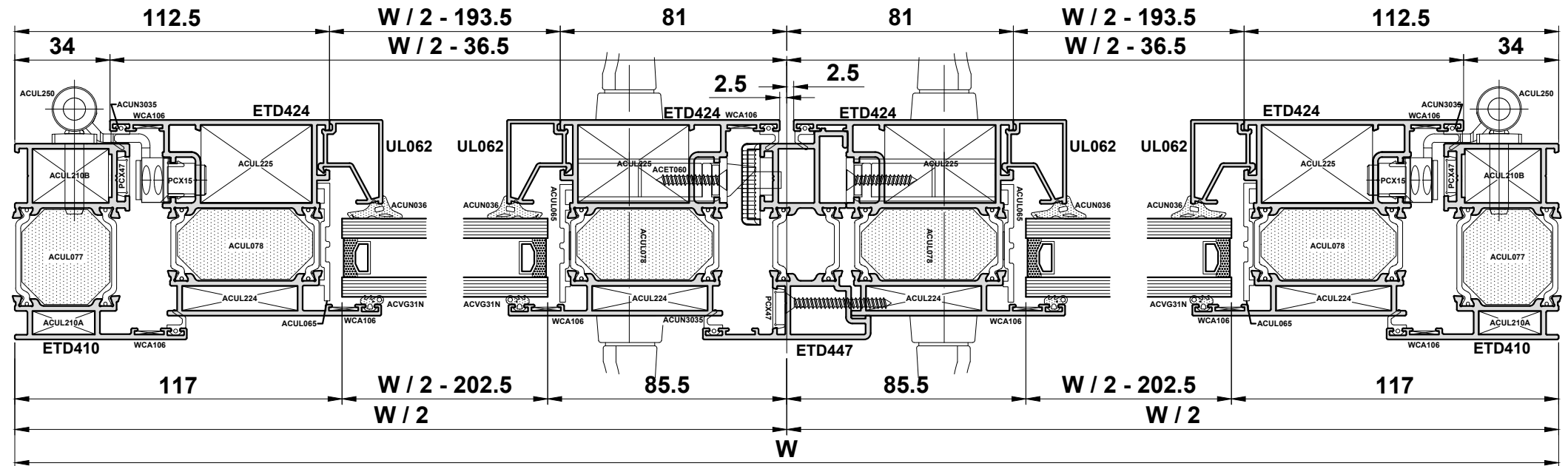
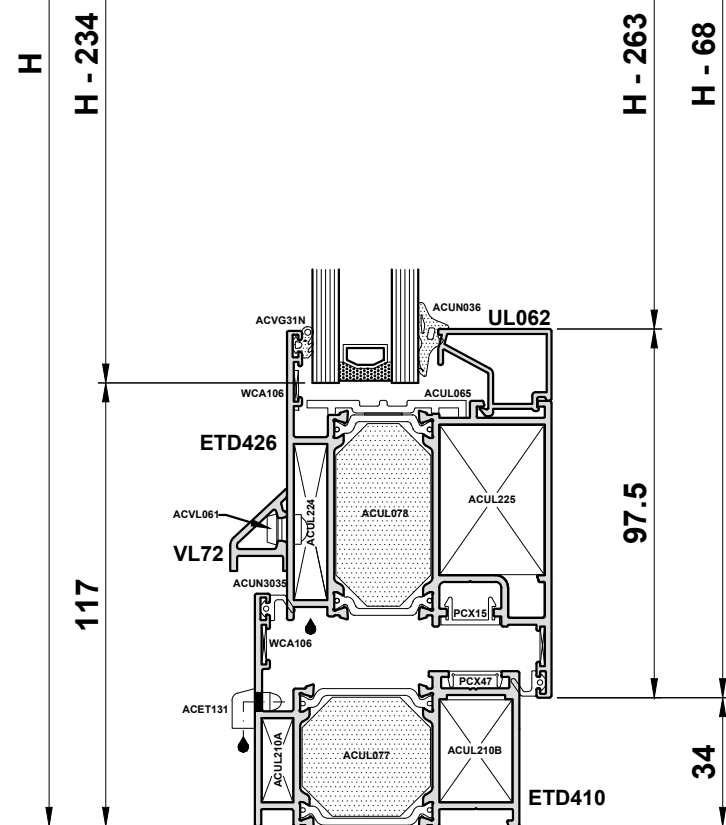
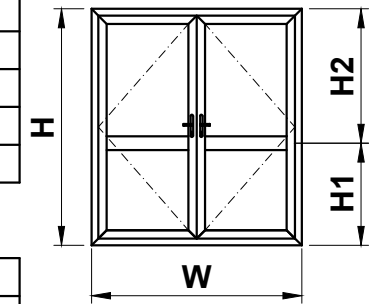
MIDRAIL				
ETD430	2			W / 2 - 193.5
BEAD	8			W / 2 - 193.5
BEAD	4			H2 - 190
BEAD	4			H1 - 190

Glass Sizes		
Without ETD430	H - 234	W / 2 - 202.5
Top Glass With ETD430	H2 - 161	W / 2 - 202.5
Bottom Glass With ETD430	H1 - 161	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
ACET475	4	Run Up Block
ACIM062	24	Screw for ACUL250
ACUL065	20	Glass Packers
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
ACUL225	8	Sash Cleat
ACUL250	6	Hinge
ACUL276	1	Secondary Lock
ACUL277/8	1	Double Door Primary Lock
ACUL279	1	Double Door Keep Kit
ACUN036	4 x W / 2 & 4 x H	Wedge Gasket
ACUN3035	4 x 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 Pairs	VL72 End Cap
ACVL061	W/300 + 2	VL72 Rivet
WCA106	20	Chevrons

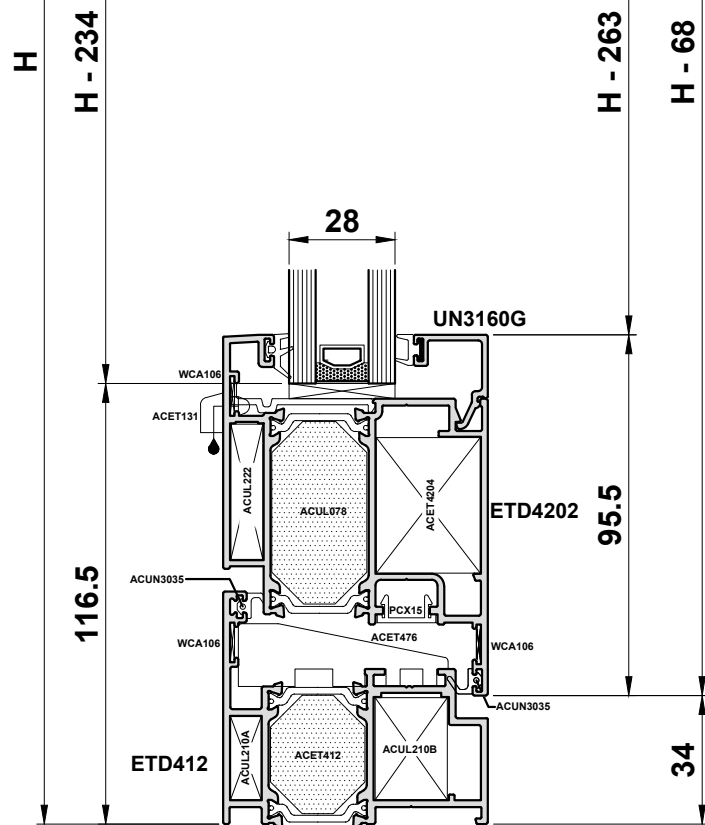
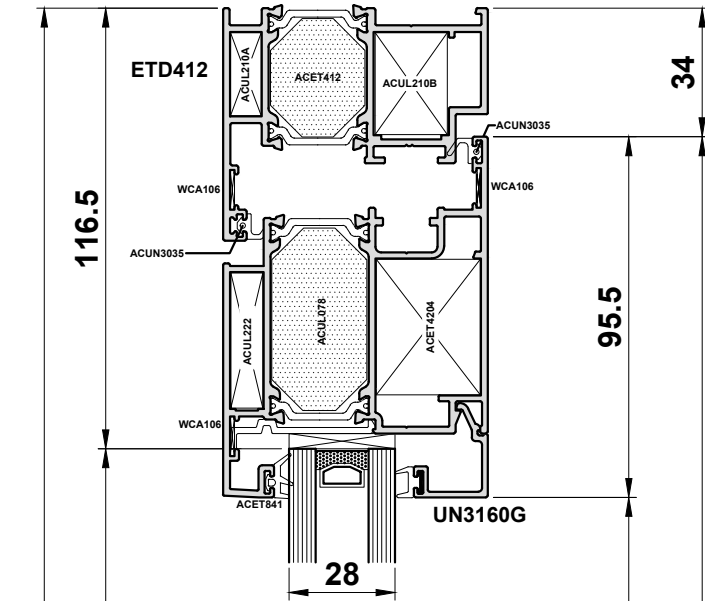
Midrail Accessories		
ACUL080	2 x W / 2	ETD430 Foam
ACUL025	8	Anti-Twist Clip
ACUL299	2	Bracket
ACUN036	4 x W / 2	Wedge Gasket
ACUN3512	4	Screw
ACVG31N	4 x W / 2	E Gasket



Do Not Scale From This Drawing



**Flush Open In Double Door Lift Lever Full Frame**



Profile Cutting Schedule				
ETD412	2			W
ETD412	2			H
ETD4202	4			W / 2 - 37
ETD4202	4			H - 68
ETD445	1			H - 110
UN3160G	4			H - 263
UN3160G	4			W / 2 - 194
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 - 107.5

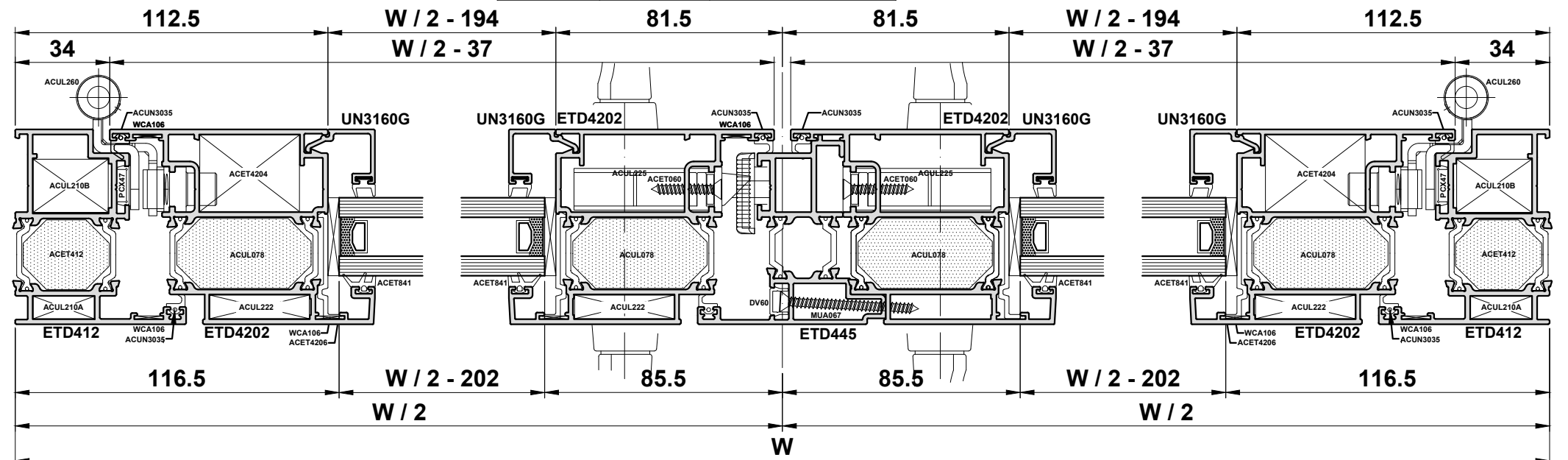
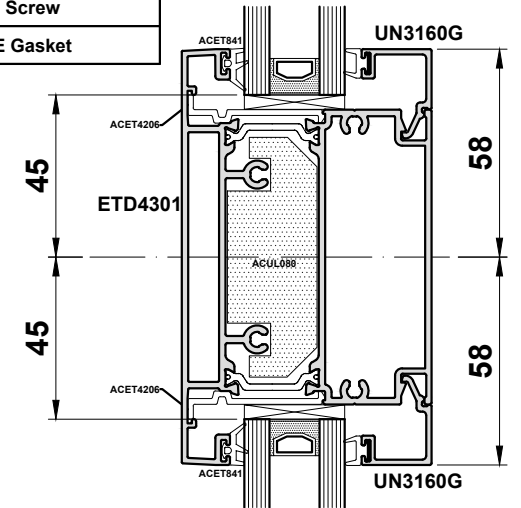
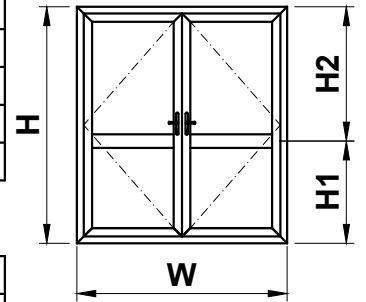
MIDRAIL				
ETD4301	2			W / 2 - 194
UN3160G	8			W / 2 - 194
UN3160G	4			H2 - 190
UN3160G	4			H1 - 190

Glass Sizes		
Without ETD4301	H - 234	W / 2 - 202
Top Glass With ETD4301	H2 - 161	W / 2 - 202
Bottom Glass With ETD4301	H1 - 161	W / 2 - 202

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
ACET412	2 x W & 2 x H	Outer Frame Foam
ACET4157	Pair	ETD445 End Cap
ACET476	4	Run Up Block
...	...	Screw for ACUL260
ACUL065	20	Glass Packers
ACUL078	4 x W / 2 & 4 x H	Sash Foam
ACUL210A	4	Outer Frame Cleat
ACUL210B	4	Outer Frame Cleat
ACUL222	8	Sash Cleat
ACET4204	8	Sash Cleat
ACUL260	6	Hinge
ACUL276	1	Secondary Lock
ACUL277/8	1	Double Door Primary Lock
ACUL279	1	Double Door Keep Kit
ACUN036	4 x W / 2 & 4 x H	Wedge Gasket
ACUN3035	4 x W & 7 x H	Flipper Gasket
...	...	Screw for ACUL260

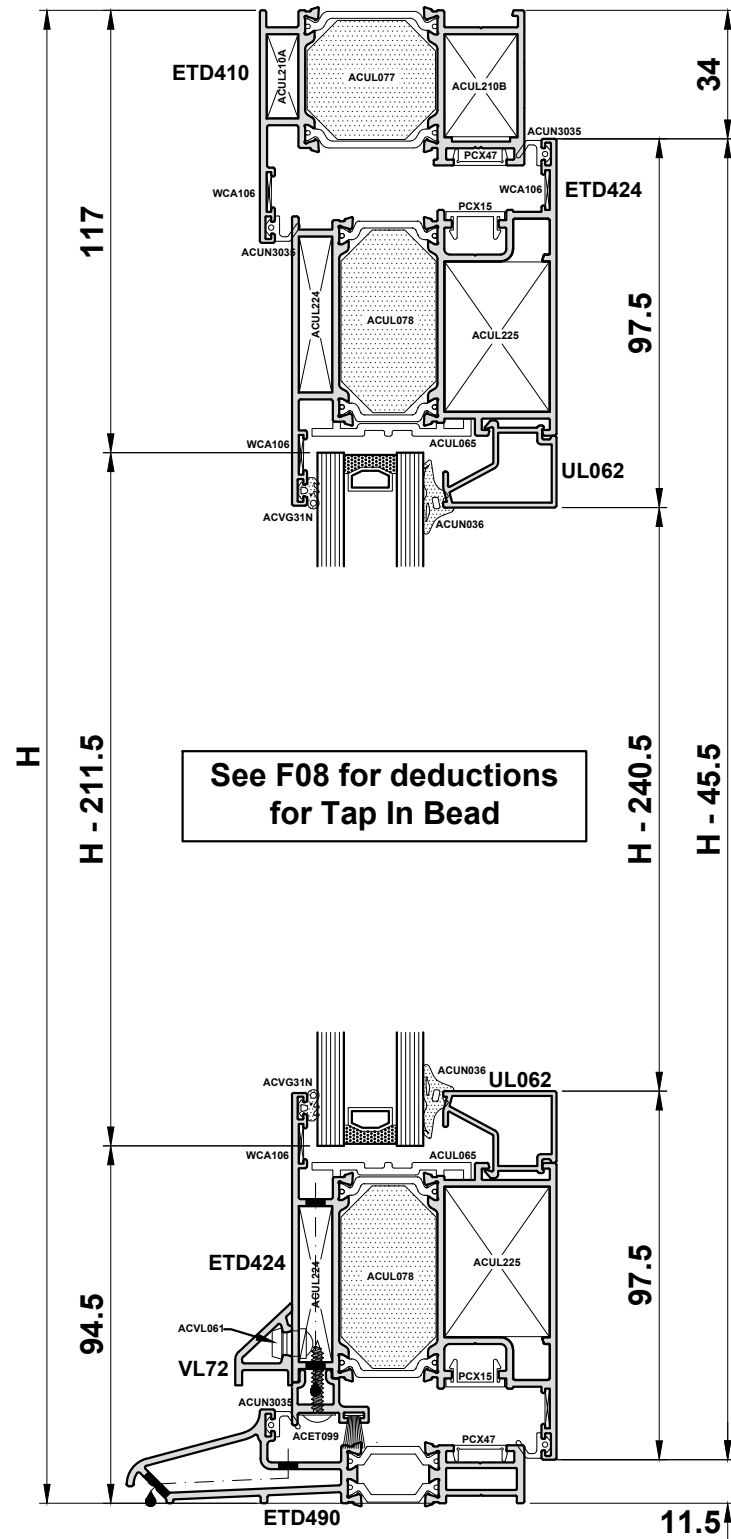
ACUN3513	2 + H / 300	Screw for ETD445
ACVG31N	4 x W / 2 & 4 x H	E Gasket
ACVL072	2 Pairs	VL72 End Cap
ACVL061	W/300 + 2	VL72 Rivet
WCA106	20	Chevrons

Midrail Accessories		
ACUL080	2 x W / 2	ETD4301 Foam
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 Rebate Threshold



See F08 for deductions for Tap In Bead

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 - 107	

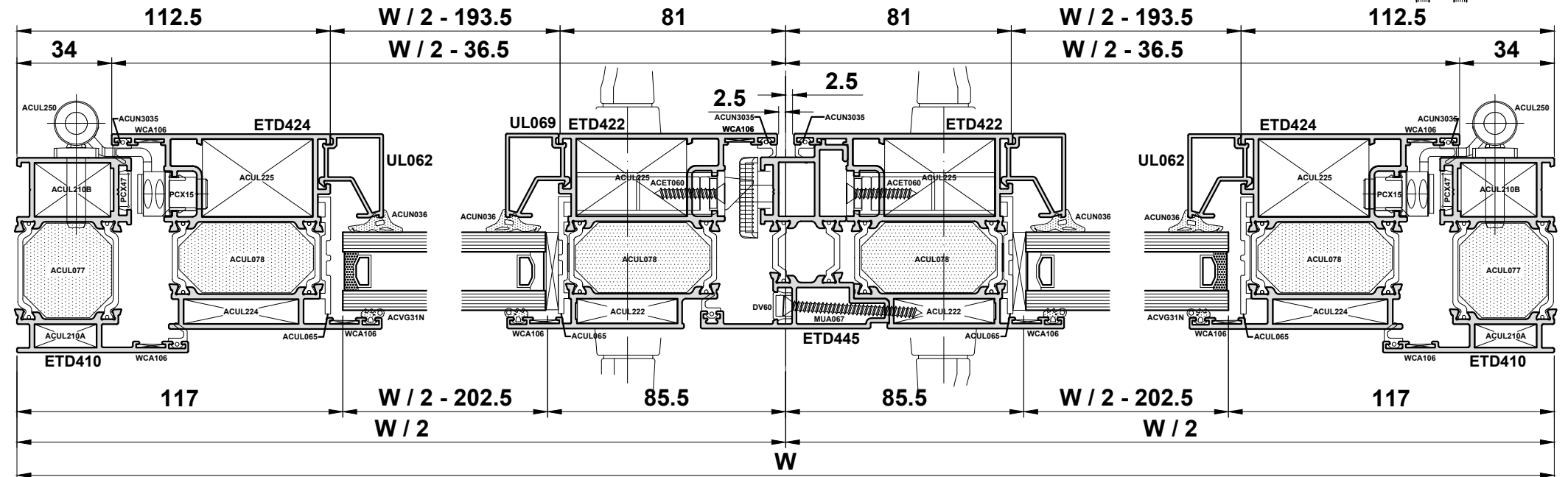
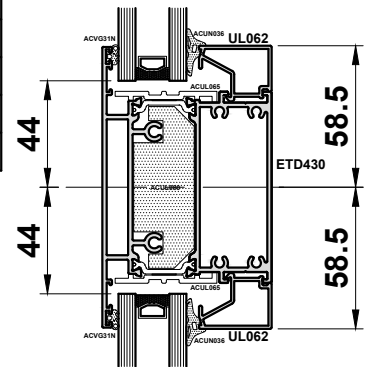
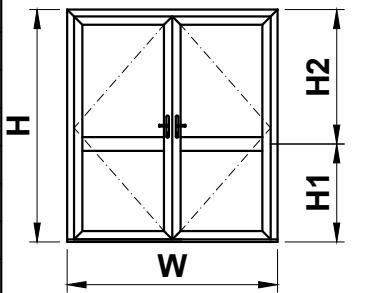
MIDRAIL	Profile	Quantity	Dimensions
	ETD430	2	W / 2 - 193.5
	BEAD	8	W / 2 - 193.5
	BEAD	4	H1 - 167.5
	BEAD	4	H2 - 190

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	Glass 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
ACUL250	6	Hinge

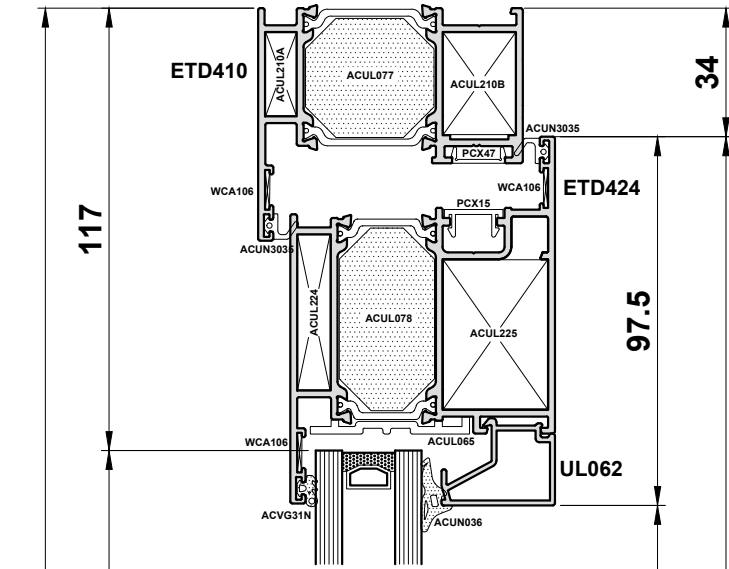
ACUL276	1	Secondary Lock
ACUL277/8	1	Double Door Primary Lock
ACUL279	1	Double Door Keep Kit
ACUL295	2	Low Threshold Bracket
ACUN036	4 x W / 2 & 4 x H	Wedge Gasket
ACUN3035	4 W & 7 x H	Flipper Gasket
ACUN3512	18	Screw for ACUL250
ACUN3513	2 + H / 300	Screw for ETD447
ACVG31N	4 x W / 2 & 4 x H	E Gasket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

Midrail Accessories		
ACUL080	2 x W / 2	ETD430 Foam
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

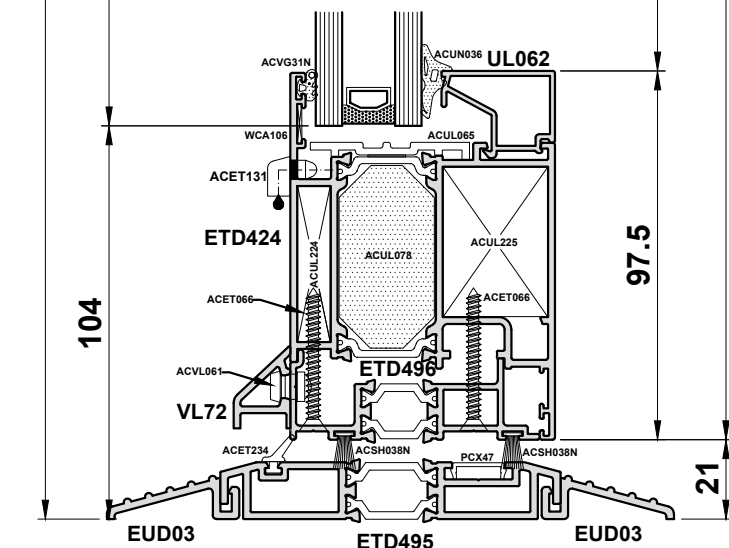


Do Not Scale From This Drawing

Open In Double Door Lift Lever Low Ramp Threshold



See F10 for deductions for Tap In Bead



Profile Cutting Schedule				
ETD410	1			W
ETD410	2			H - 15
ETD495	1			W
EUD03	2			W
ETD424	4			W / 2 - 36.5
ETD424	4			H - 55
ETD496	2			W / 2 - 84.5
ETD447	1			H - 81
BEAD	4			H - 250
BEAD	4			W / 2 - 193.5
PCX15	4			H - 68
PCX15	4			W / 2 - 75
PCX47	2			H - 55
PCX47	1			H - 81
PCX47	2			W - 82
VL72	2			W / 2 - 107

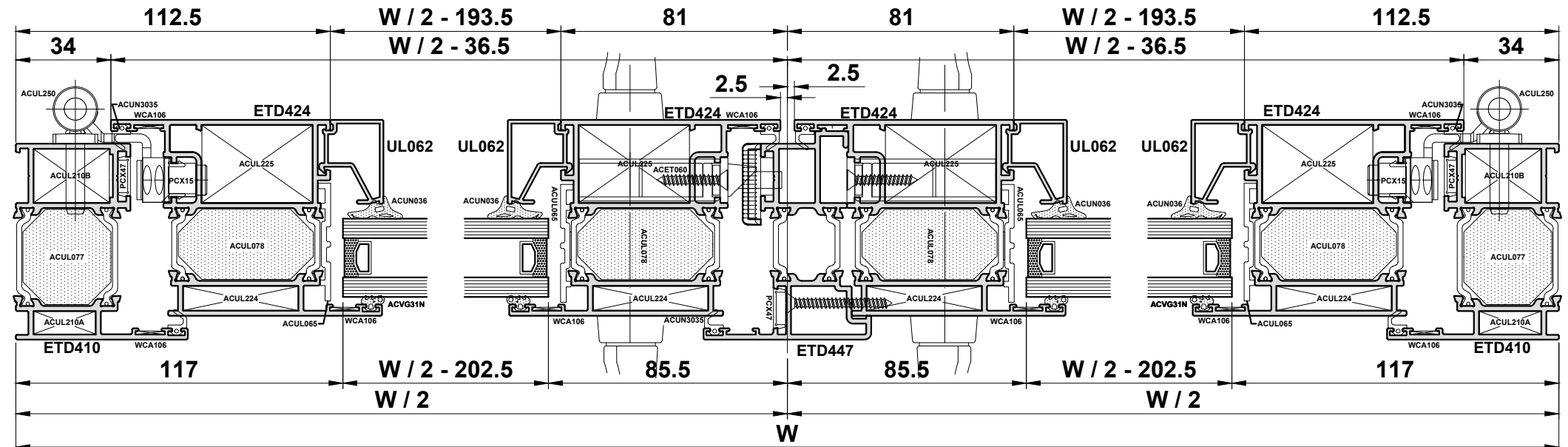
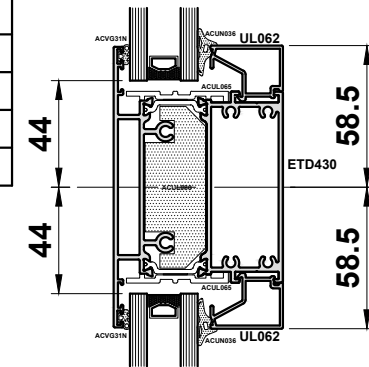
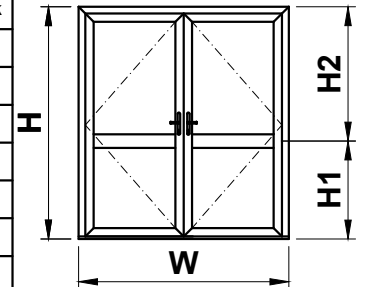
MIDRAIL				
ETD430	2			W / 2 - 193.5
BEAD	8			W / 2 - 193.5
BEAD	4			H1 - 177
BEAD	4			H2 - 190

Glass Sizes			
Without ETD430	H - 221	W / 2 - 202.5	
Top Glass With ETD430	H2 - 161	W / 2 - 202.5	
Bottom Glass With ETD430	H1 - 148	W / 2 - 202.5	

Accessories		
ACCY6035S3	2	Euro Cylinder
ACDV251	2 Pairs	Handles
ACDV737	2	Bottom Shootbolt
ACDV738	2	Top 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	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	Glass 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
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 x 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

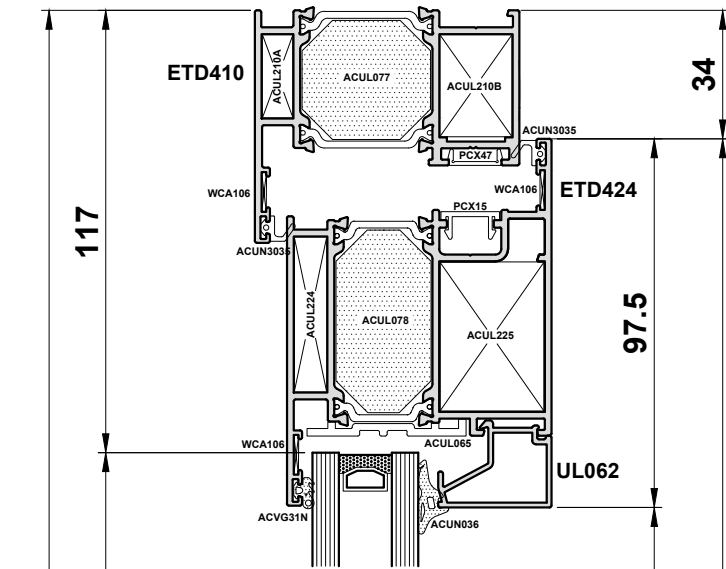
Midrail Accessories		
ACUL080	2 x W / 2	ETD430 Foam
ACUL025	8	Anti-Twist Clip
ACUL299	2	Bracket
ACUN036	4 x W / 2	Wedge Gasket
ACUN3512	4	Screw
ACVG31N	4 x W / 2	E Gasket



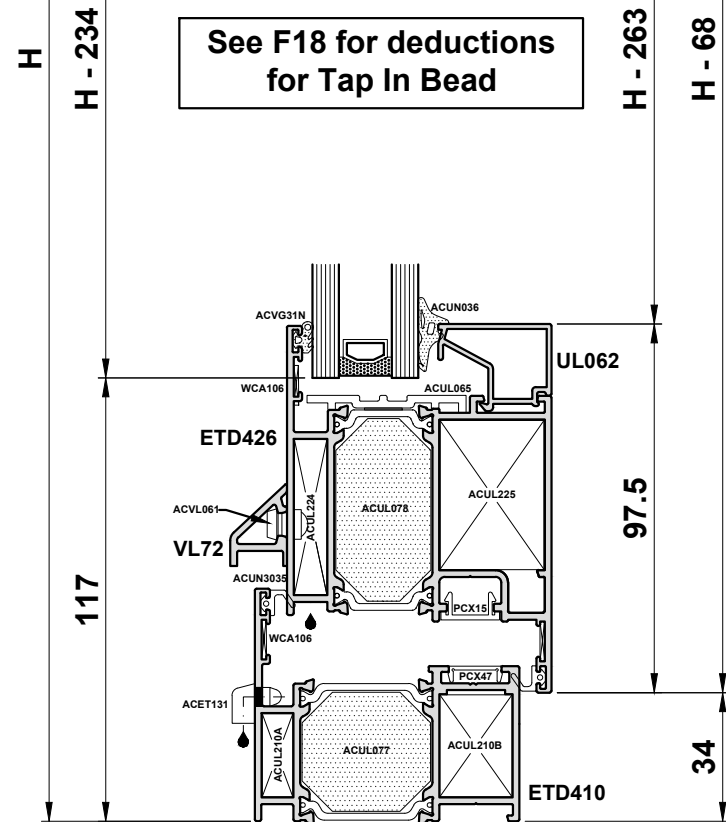
Do Not Scale From This Drawing



Open In Double Door Finger Bolt Full Frame



See F18 for deductions for Tap In Bead



Profile Cutting Schedule				
ETD410	2			W
ETD410	2			H
ETD424	4			W / 2 - 40
ETD424	4			H - 68
ETD448	1			H - 110
BEAD	4			H - 263
BEAD	4			W / 2 - 197
PCX15	4			H - 106
PCX15	4			W / 2 - 58
PCX47	2			H - 82
PCX47	1			H - 110
PCX47	2			W / 2 - 82
VL72	2			W / 2 - 119.5

MIDRAIL				
ETD430	1			W / 2 - 197
BEAD	8			W / 2 - 197
BEAD	4			H2 - 190
BEAD	4			H1 - 190

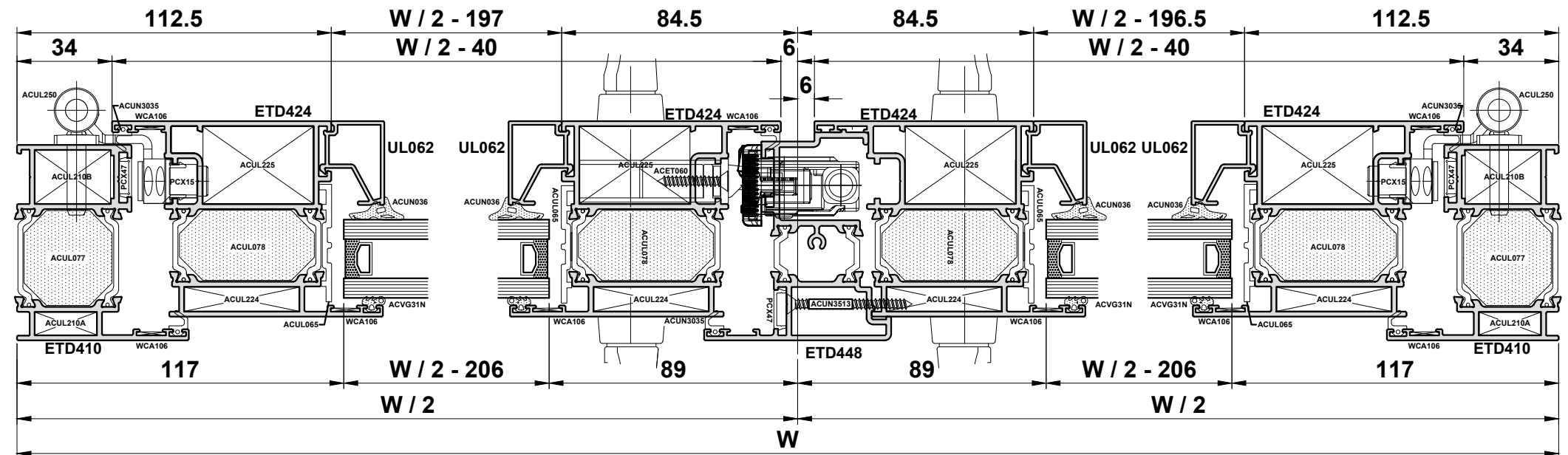
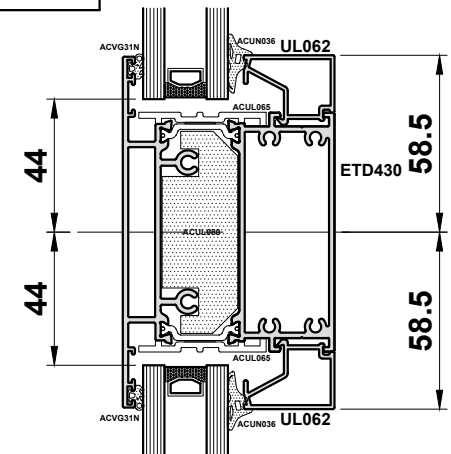
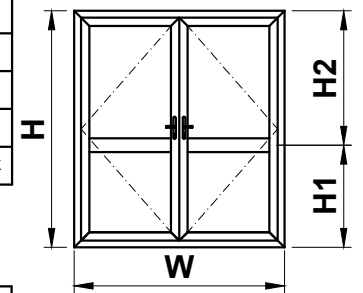
Glass Sizes		
Without ETD430	H - 234	W / 2 - 206
Top Glass With ETD430	H2 - 161	W / 2 - 206
Bottom Glass With ETD430	H1 - 161	W / 2 - 206

Accessories		
ACCY6035S3	1	Euro Cylinder
**	**	Handles
ACET060	16	Screw for Lock
ACET131	4	Drainage Cap
ACET4148	Pair	ETD448 End Cap
ACET475	4	Run Up Block
ACIM062	24	Screw for ACUL250
ACPD844	1	Shootbolt Adaptor
ACPD84..	2	10mm Dia Galvanised Rod
ACSM015	Pair	Escutcheon
ACUL065	20	Glass Packers
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
ACUL225	8	Sash Cleat
ACUL242	2	Finger Bolt Guide
ACUL250	6	Hinge
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 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.

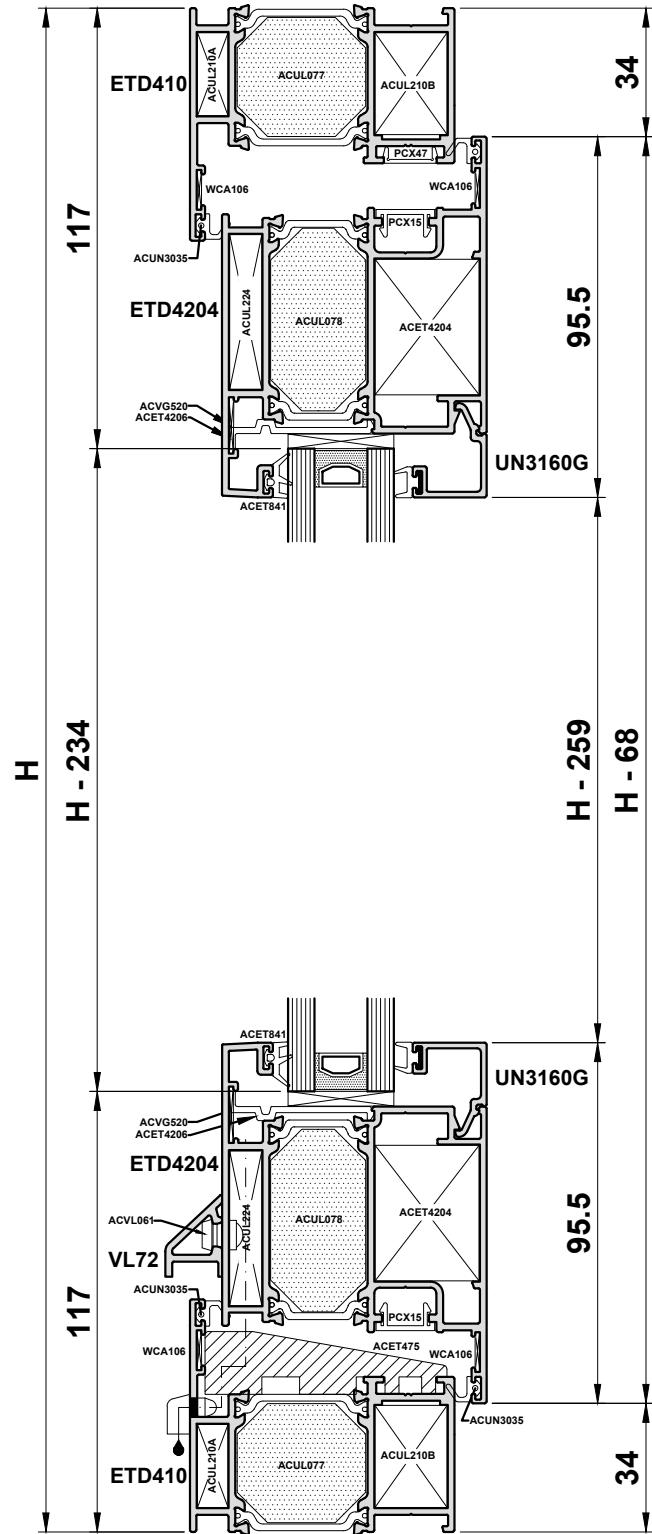
Midrail Accessories		
ACUL080	2 x W / 2	ETD430 Foam
ACUL025	8	Anti-Twist Clip
ACUL299	2	Bracket
ACUN036	4 x W / 2	Wedge Gasket
ACUN3512	4	Screw
ACVG31N	4 x W / 2	E Gasket



Do Not Scale From This Drawing



**Open In Double Door Finger Bolt Full Frame**



Profile Cutting Schedule				
ETD410	2			W
ETD410	2			H
ETD4204	4			W / 2 - 40
ETD4204	4			H - 68
ETD448	1			H - 110
UN3160G	4			H - 259
UN3160G	4			W / 2 - 197
PCX15	4			H - 106
PCX15	4			W / 2 - 58
PCX47	2			H - 82
PCX47	1			H - 110
PCX47	2			W - 82
VL72	2			W / 2 - 119.5

MIDRAIL				
ETD4302	1			W - 225
UN3160G	4			W / 2 - 197
UN3160G	2			H1 - 187.5
UN3160G	2			H2 - 187.5

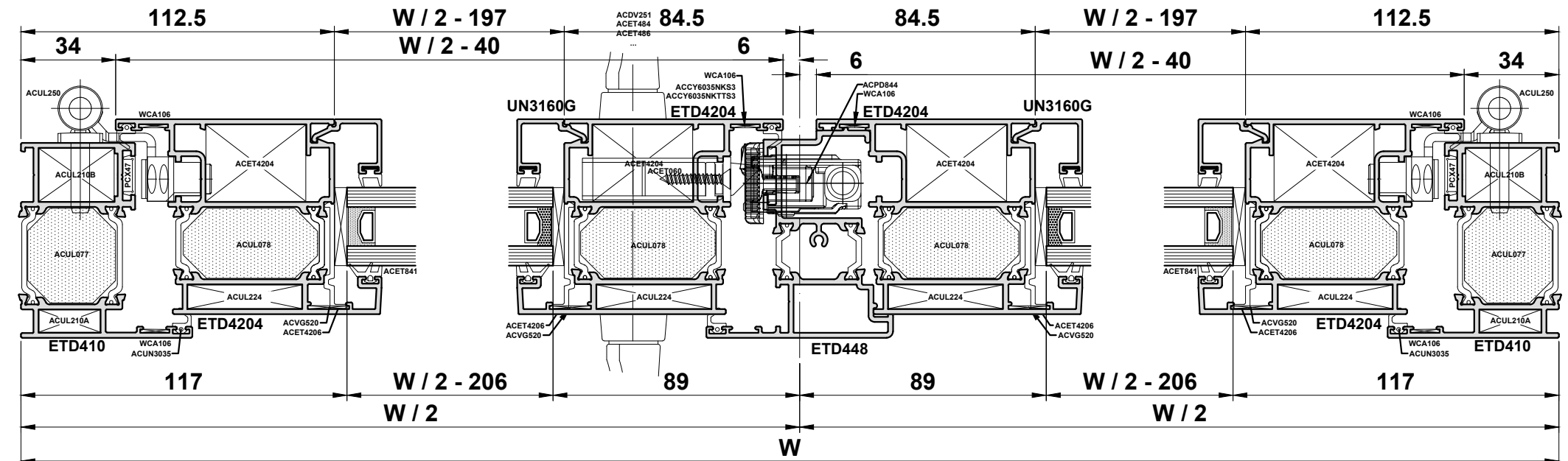
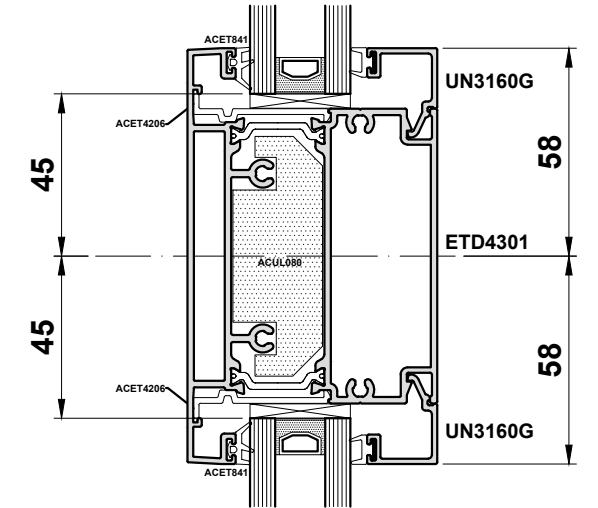
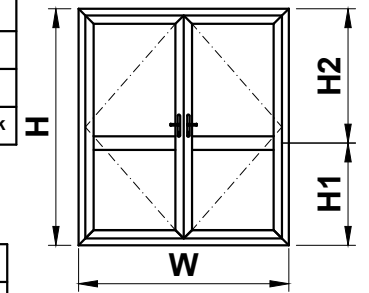
Glass Sizes		
Without ETD430	H - 234	W / 2 - 206
Top Glass With ETD430	H2 - 162	W / 2 - 206
Bottom Glass With ETD430	H1 - 162	W / 2 - 206

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	Glass 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 Galvanised 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.

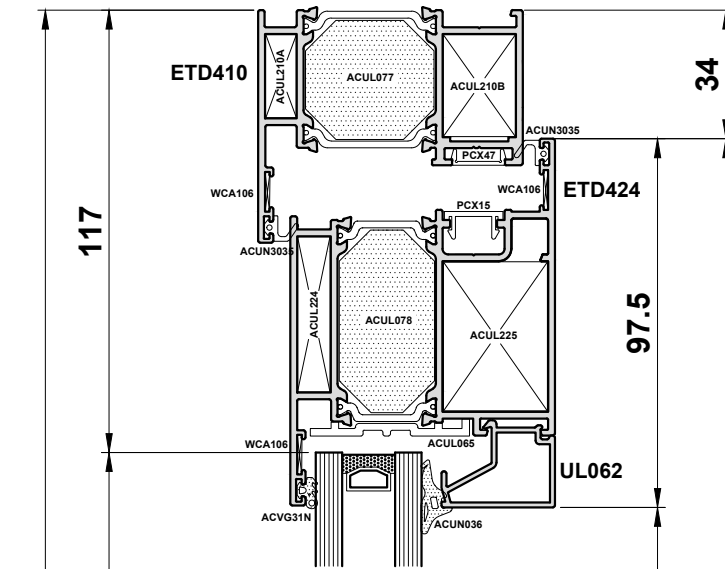
Midrail Accessories		
ACET841	2 x W	E Gasket
ACUL080	W	ETD4301 Foam
ACUN3512	4	Screws



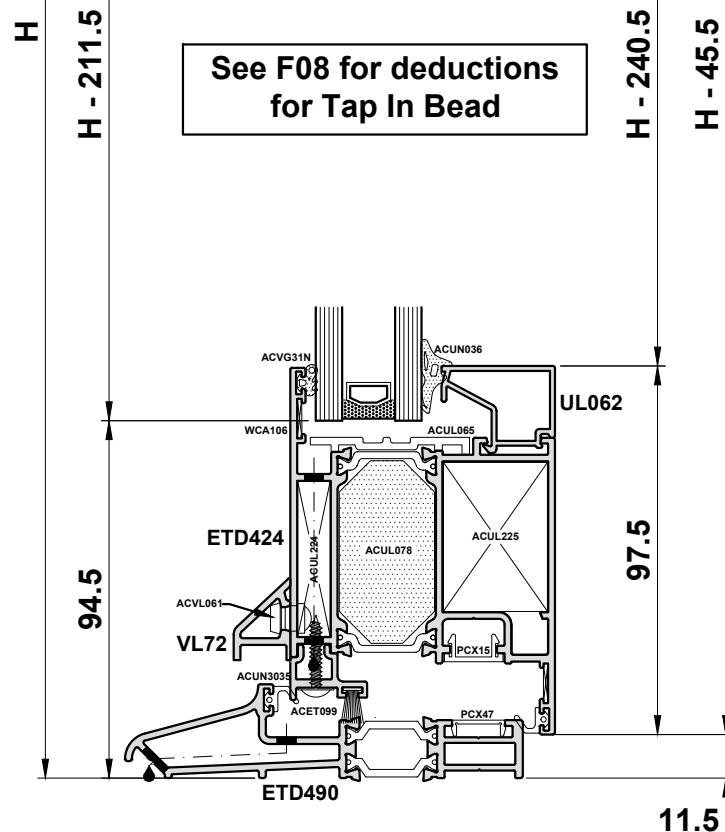
Do Not Scale From This Drawing



Open In Double Door Finger Bolt Low Rebate Threshold



See F08 for deductions for Tap In Bead



Profile Cutting Schedule				
ETD410	1			W
ETD410	2			H - 15.5
ETD490	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 - 110.5

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

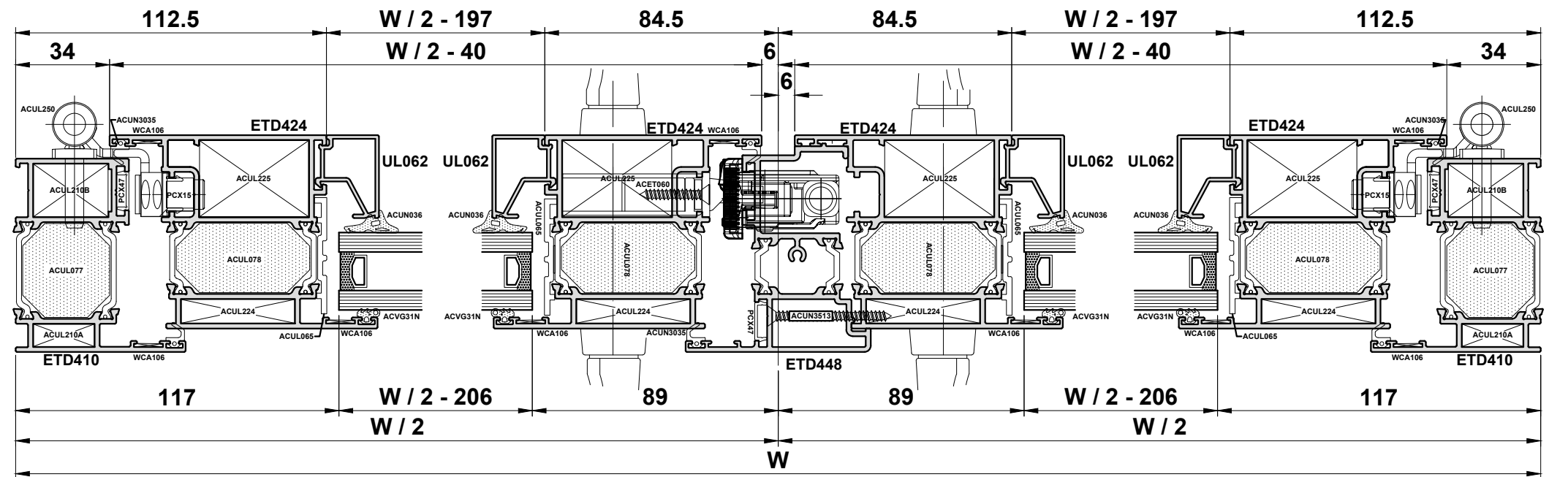
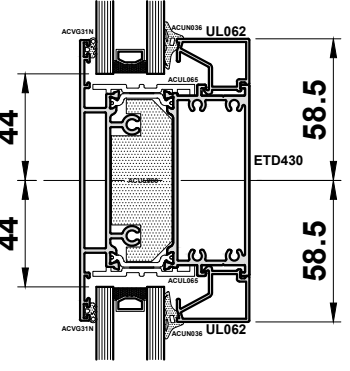
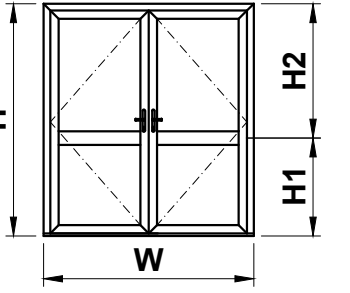
Glass Sizes		
Without ETD430	H - 211.5	W / 2 - 206
Top Glass With ETD430	H2 - 161	W / 2 - 206
Bottom Glass With ETD430	H1 - 138.5	W / 2 - 206

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
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 Galvanised Rod
ACSH038N	1 x W	Woolpile
ACSM015	Pair	Escutcheon
ACUL025	2	Anti-Twist Clip
ACUL065	20	Glass 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.

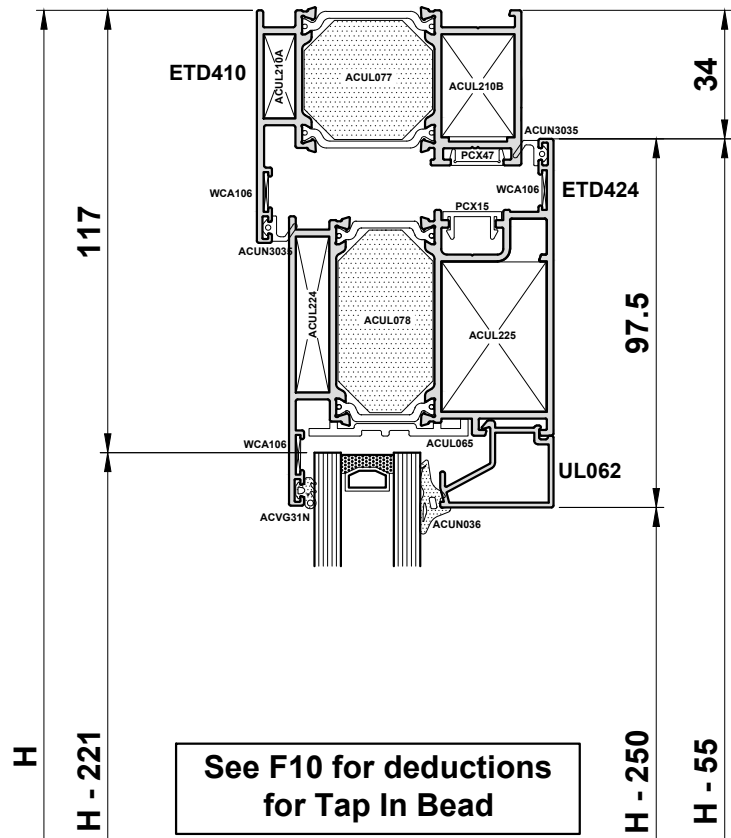
Midrail Accessories		
ACUL080	2 x W / 2	ETD430 Foam
ACUL025	8	Anti-Twist Clip
ACUL299	2	Bracket
ACUN036	4 x W / 2	Wedge Gasket
ACUN3512	4	Screw
ACVG31N	4 x W / 2	E Gasket



Do Not Scale From This Drawing



### Flush Open In Double Door Finger Bolt Full Frame



Profile Cutting Schedule					
ETD410	1			W	
ETD410	2			H - 15	
ETD495	1			W	
EUD03	2			W	
ETD424	4			W / 2 - 40	
ETD424	4			H - 55	
ETD496	2			W / 2 - 88	
ETD448	1			H - 81	
BEAD	4			H - 250	
BEAD	4			W / 2 - 197	
PCX15	4			H - 68	
PCX15	4			W / 2 - 75	
PCX47	2			H - 55	
PCX47	1			H - 81	
PCX47	2			W - 82	
VL72	2			W / 2 - 110.5	

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

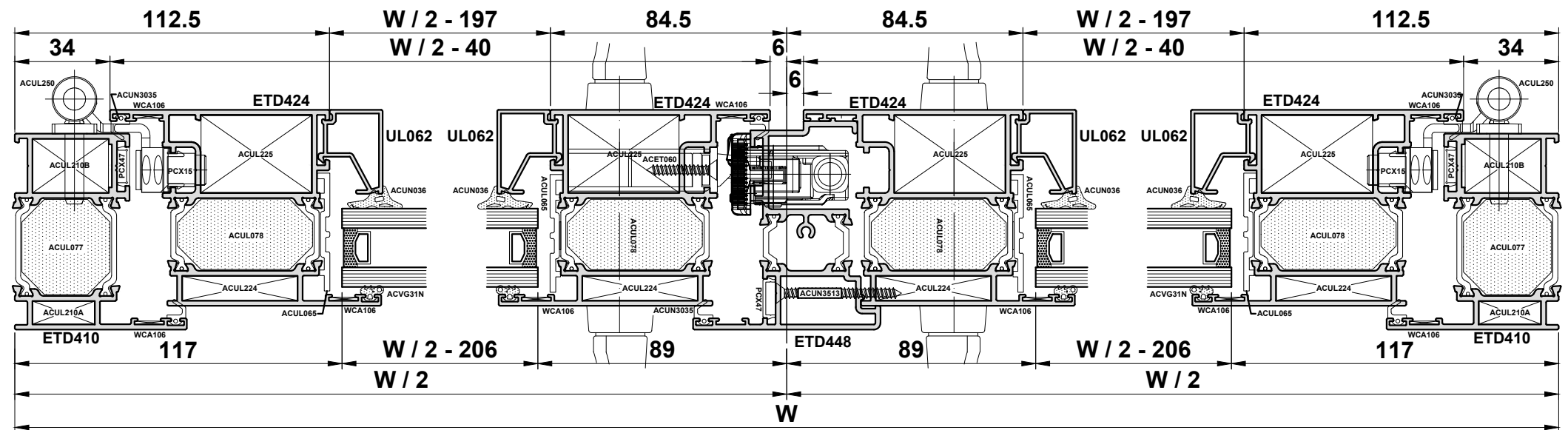
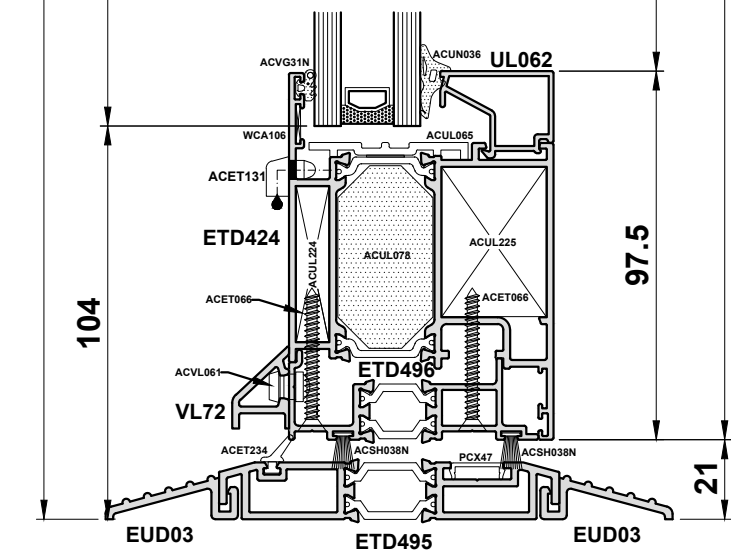
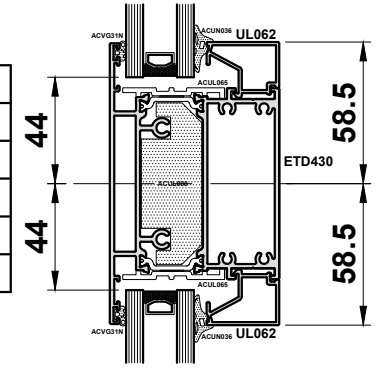
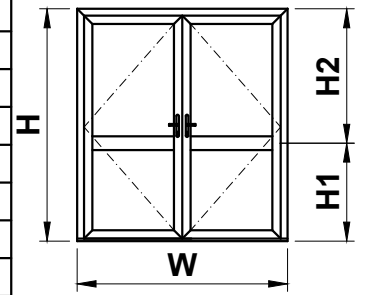
Glass Sizes		
Without ETD430	H - 221	W / 2 - 206
Top Glass <u>With</u> ETD430	H2 - 161	W / 2 - 206
Bottom Glass <u>With</u> ETD430	H1 - 148	W / 2 - 206

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 Galvanised Rod
ACSH038N	2 x W	Woolpile
ACSM015	Pair	Escutcheon
ACUL065	20	Glass 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

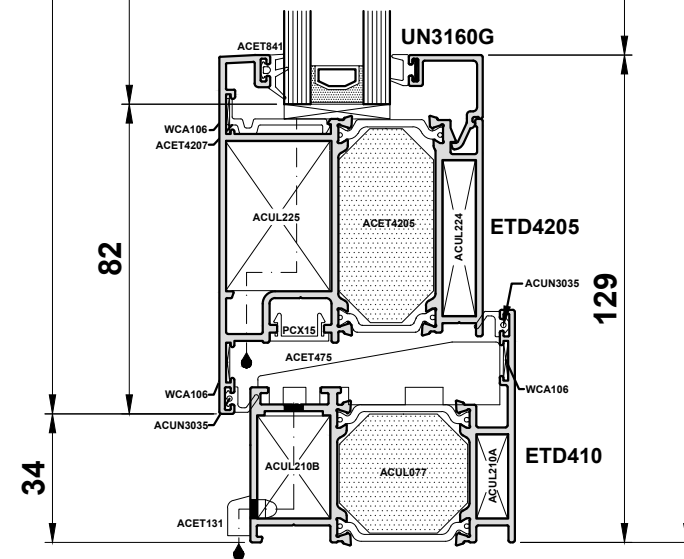
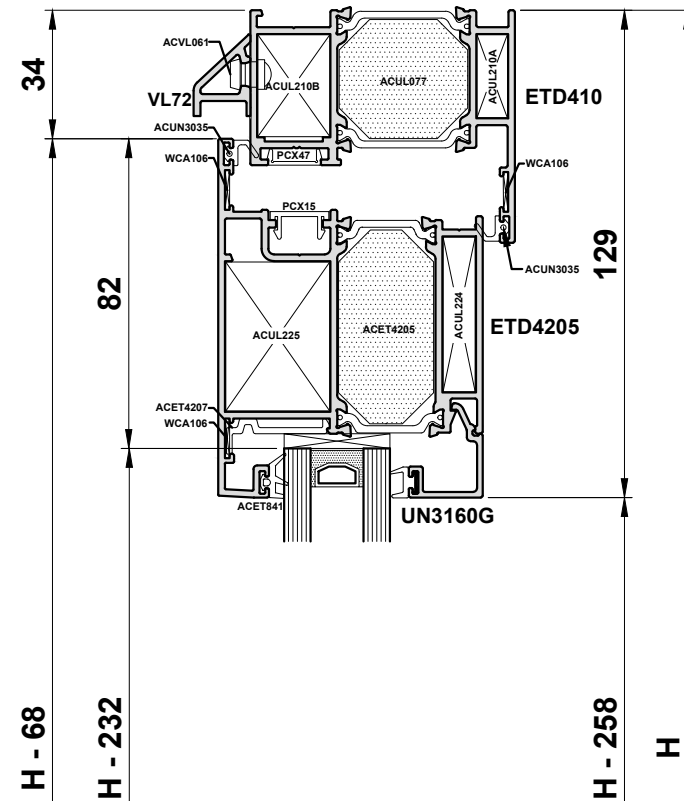
\*See Page E20 for lock options.  
\*\*See B & E for handle options.

Midrail Accessories		
ACUL080	2 x W / 2	ETD430 Foam
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 Out Single Door Full Frame



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 - 139

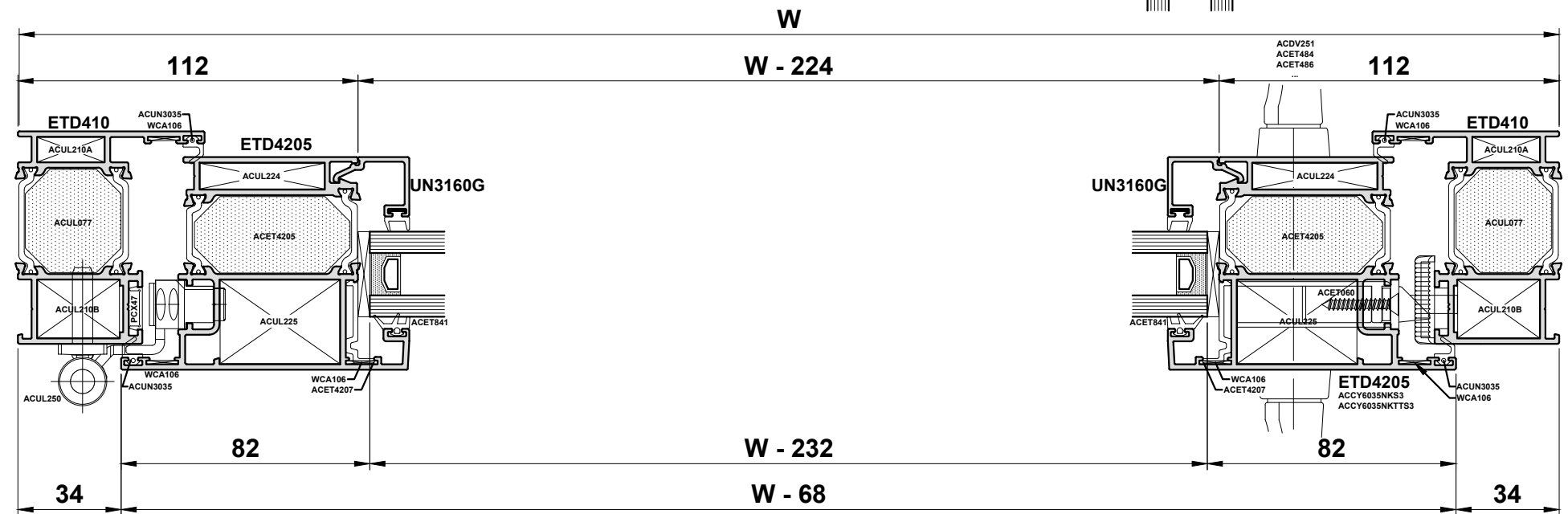
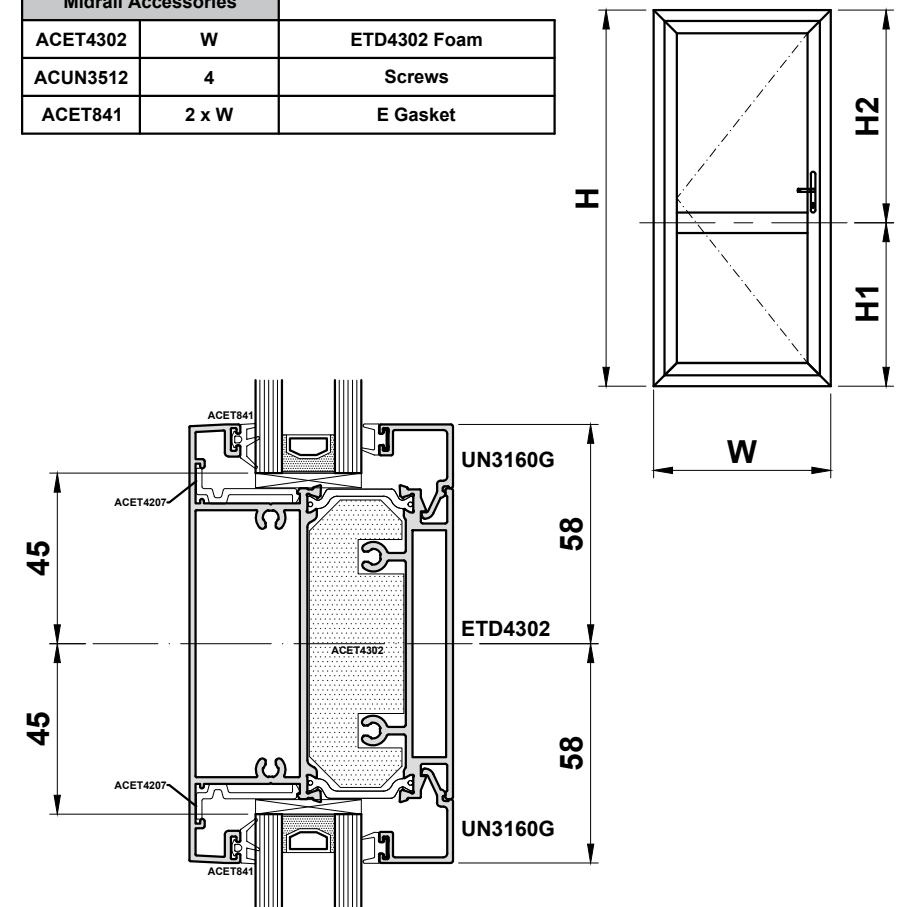
MIDRAIL				
ETD4302	1			W - 224
UN3160G	4			W - 224
UN3160G	2			H1 - 187
UN3160G	2			H2 - 187

Glass Sizes		
Without ETD4302	H - 232	W - 232
Top Glass With ETD4302	H2 - 161	W - 232
Bottom Glass With 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	Glass 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	Chevrons
*	1	Primary Lock

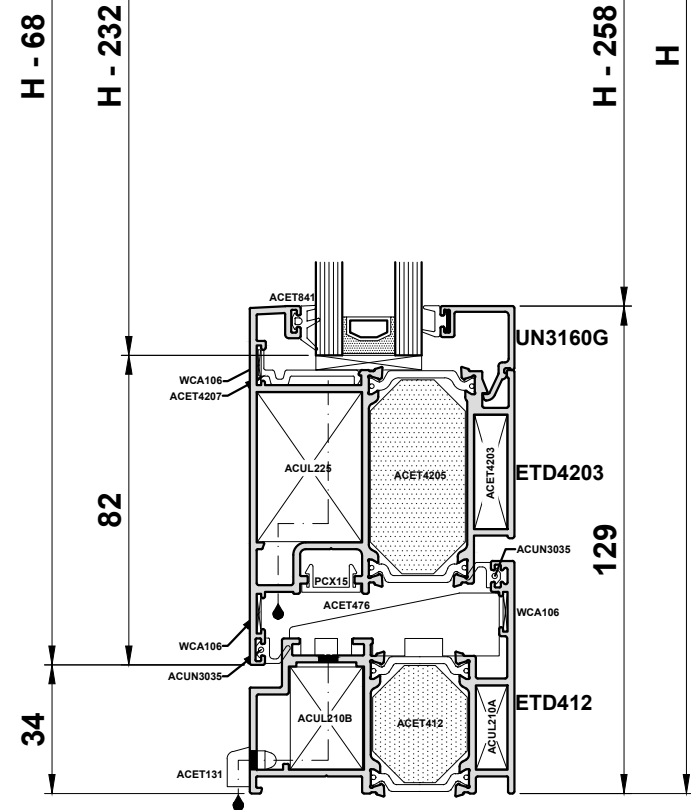
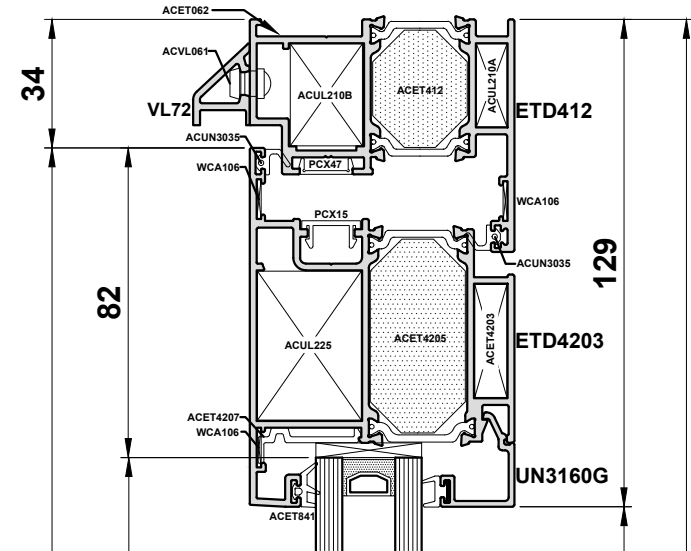
\*See Page E72 for lock options.  
\*\*See B & E for handle options.

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



Do Not Scale From This Drawing

**Flush Open Out Flush Single Door Full Frame**



Profile Cutting Schedule				
UN3160G	2			H - 258
UN3160G	2			W - 224
ETD412	2			W
ETD412	2			H
ETD4203	2			W - 68
ETD4203	2			H - 68
PCX15	2			H - 106
PCX15	2			W - 106
PCX47	2			H - 82
PCX47	2			W - 82
VL72	1			W - 139

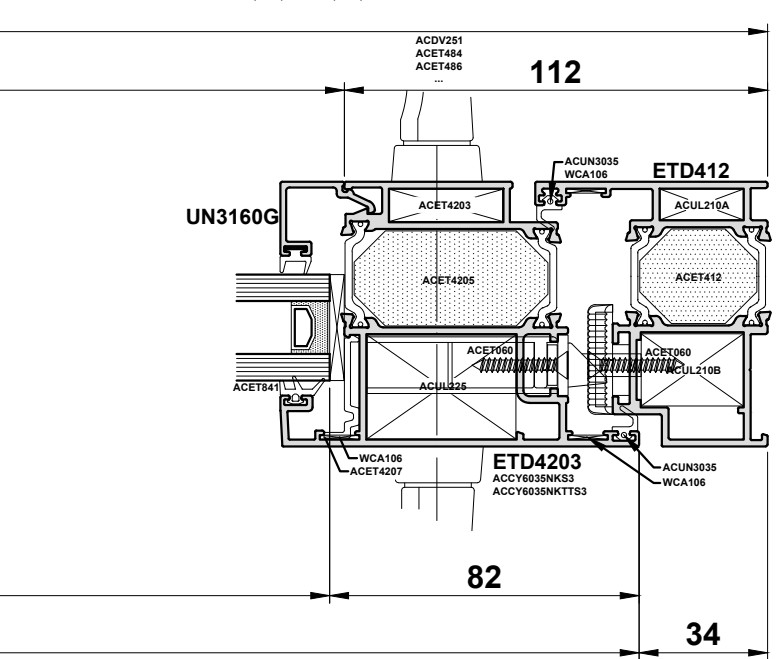
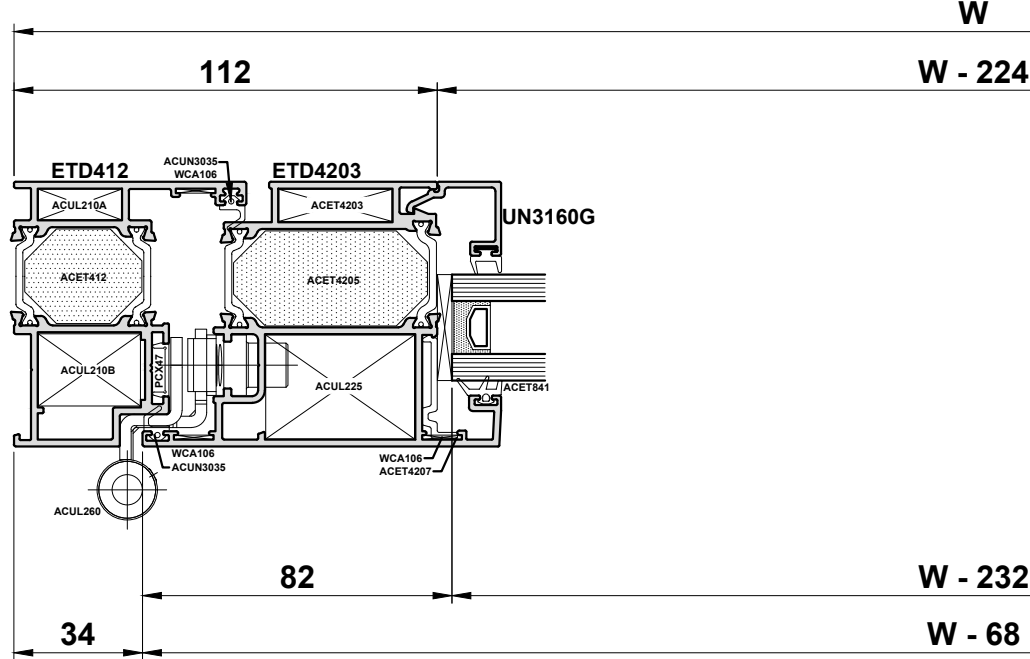
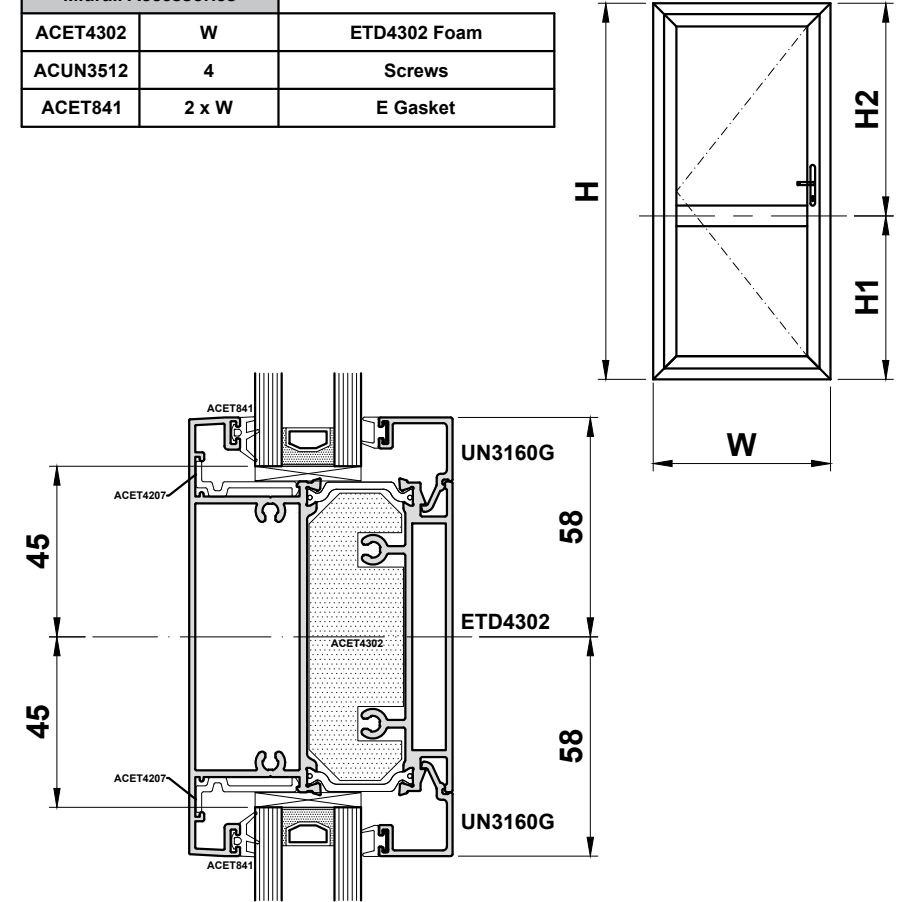
MIDRAIL	Qty	Profile	Dimension
ETD4302	1		W - 224
UN3160G	4		W - 224
UN3160G	2		H1 - 187
UN3160G	2		H2 - 187

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

Accessories		
ACCY3560S3	1	Euro Cylinder
**	**	Handles
ACET060	16	Screws for Lock
ACET131	2	Drainage Cap
ACET412	2 x W & 2 x H	Outer Frame Foam
ACET4203	4	Sash Cleat
ACET4205	2 x W & 2 x H	Sash Foam
ACET4207	10	Glass Packers
ACET476	2	Run Up Block
ACET841	2 x W & 2 x H	E Gasket
...	...	Screw for ACUL260
ACUL210A	4	Outer Frame Cleat
ACUL210B	4	Outer Frame Cleat
ACUL225	4	Sash Cleat
ACUL260	3	Hinge
ACUN3035	4 x W & 4 x H	Flipper Gasket
...	...	Screw for ACUL260
ACVL059 / ACVL072	1 Pair	VL72 End Cap
ACVL061	W/300 + 2	VL72 Rivet
WCA106	12	Chevrans
*	1	Primary Lock

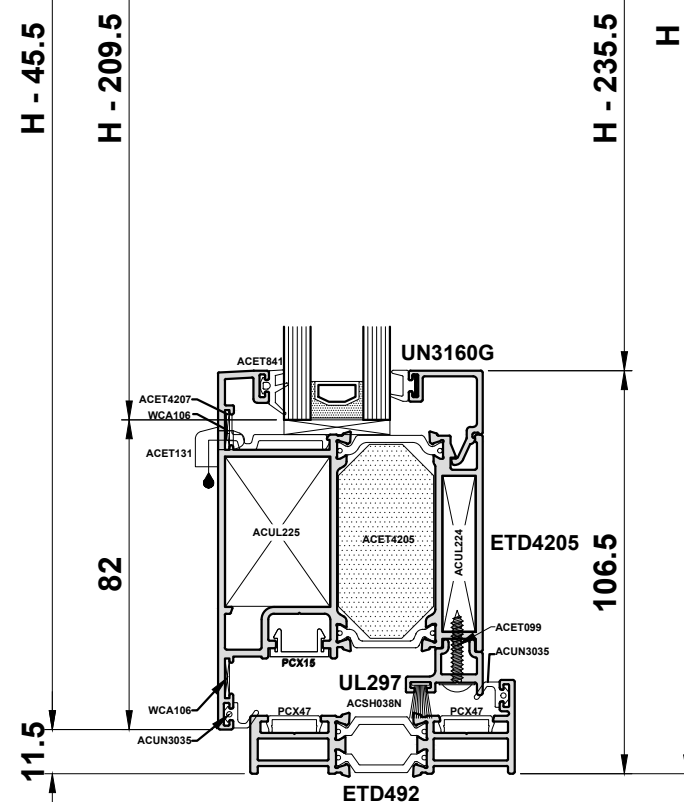
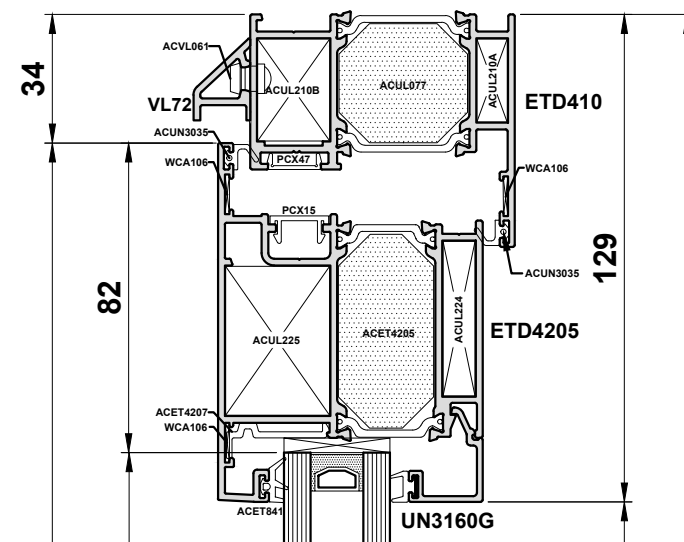
\*See Page E72 for lock options.  
\*\*See B & E for handle options.

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



**Do Not Scale From This Drawing**

**Open Out Single Door Low Rebate Threshold**



Profile Cutting Schedule					
UN3160G	2			H - 235.5	
UN3160G	2			W - 224	
ETD410	1			W	
ETD410	2			H - 15.5	
ETD4205	2			W - 68	
ETD4205	2			H - 45.5	
ETD492	1			W	
UL297	1			W - 113	
PCX15	2			H - 83.5	
PCX15	2			W - 106	
PCX47	2			H - 56.5	
PCX47	2			W - 82	
VL72	1			W - 139	

MIDRAIL		Profile Cutting Schedule			
ETD4302	1			W - 224	
UN3160G	4			W - 224	
UN3160G	2			H1 - 164.5	
UN3160G	2			H2 - 187	

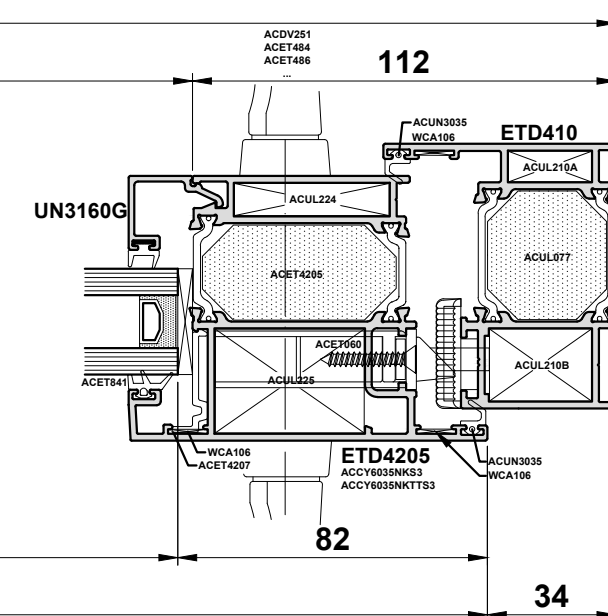
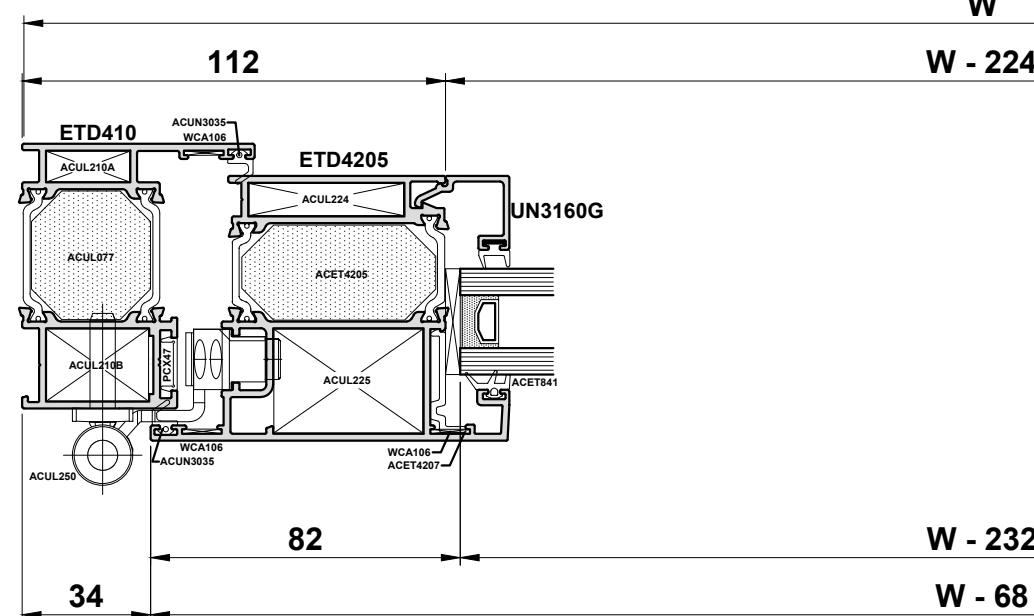
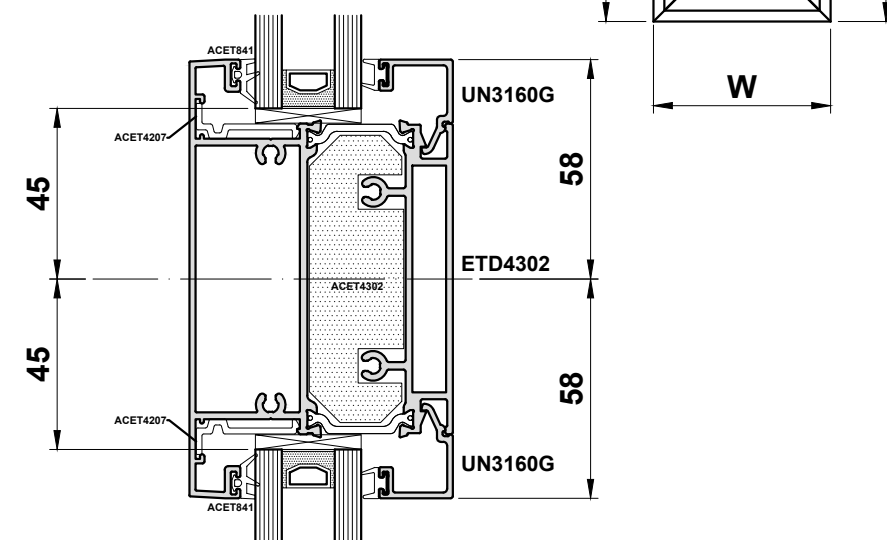
Glass Sizes		
Without ETD4302	H - 232	W - 232
Top Glass With ETD4302	H2 - 161	W - 232
Bottom Glass With ETD4302	H1 - 138.5	W - 232

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	Glass 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.

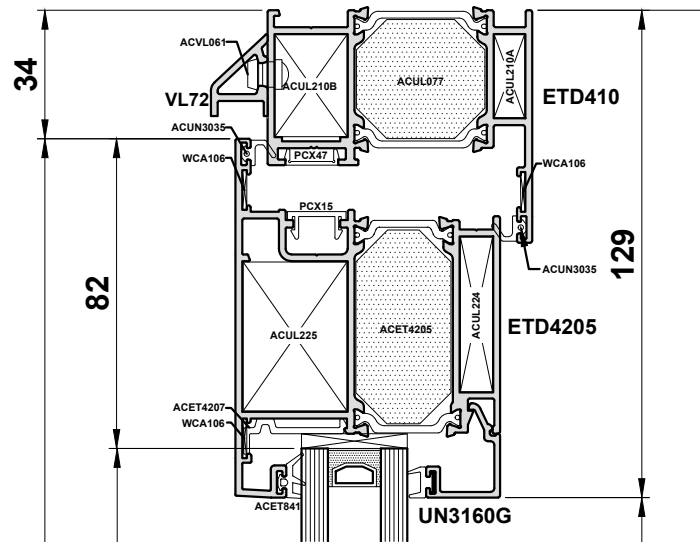
Midrail Accessories		
ACET4302	W	ETD4302 Foam
ACUN3512	4	Screws
ACET841	2 x W	E Gasket



**Do Not Scale From This Drawing**



**Open Out Single Door Low Ramp Threshold**



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 - 139

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

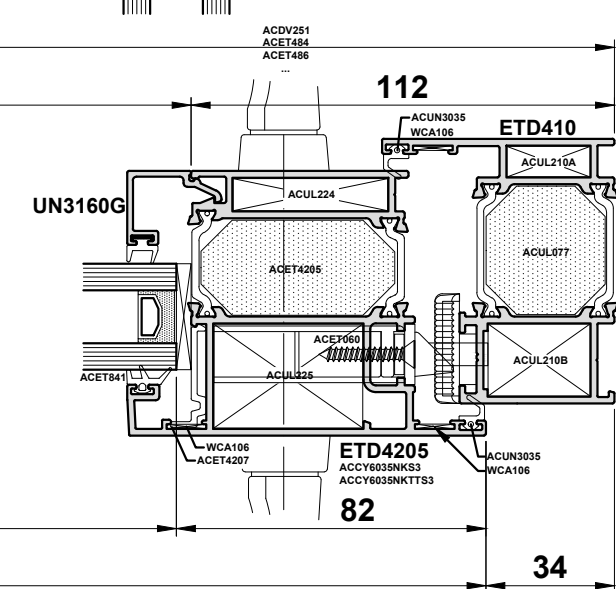
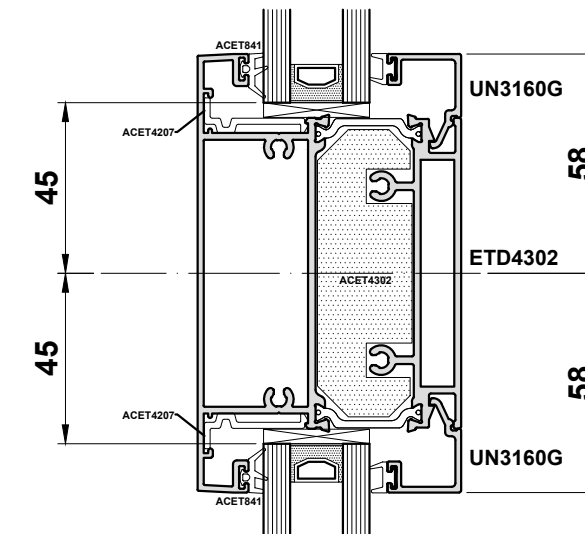
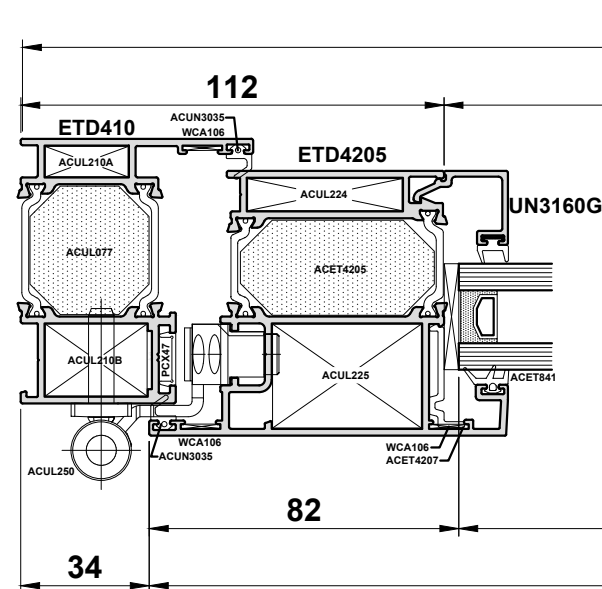
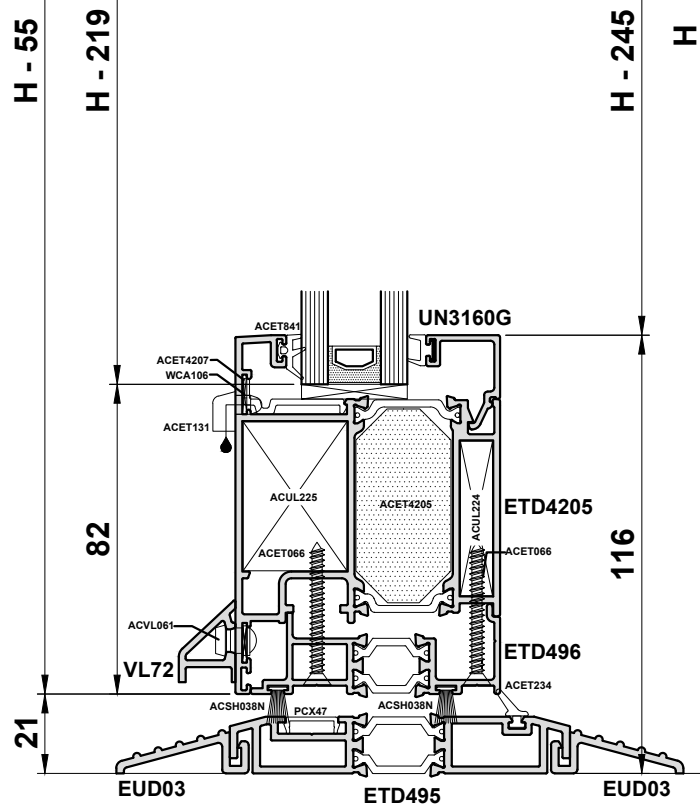
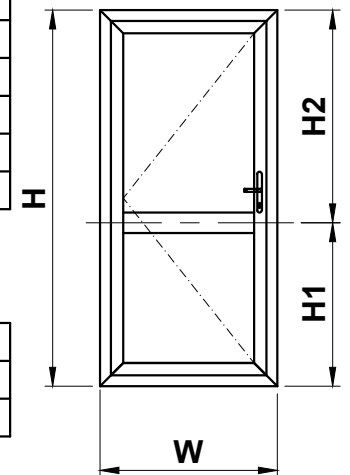
Glass Sizes		
Without ETD4302	H - 219	W - 232
Top Glass With ETD4302	H2 - 161	W - 232
Bottom Glass With ETD4302	H1 - 148	W - 232

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	Glass 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.

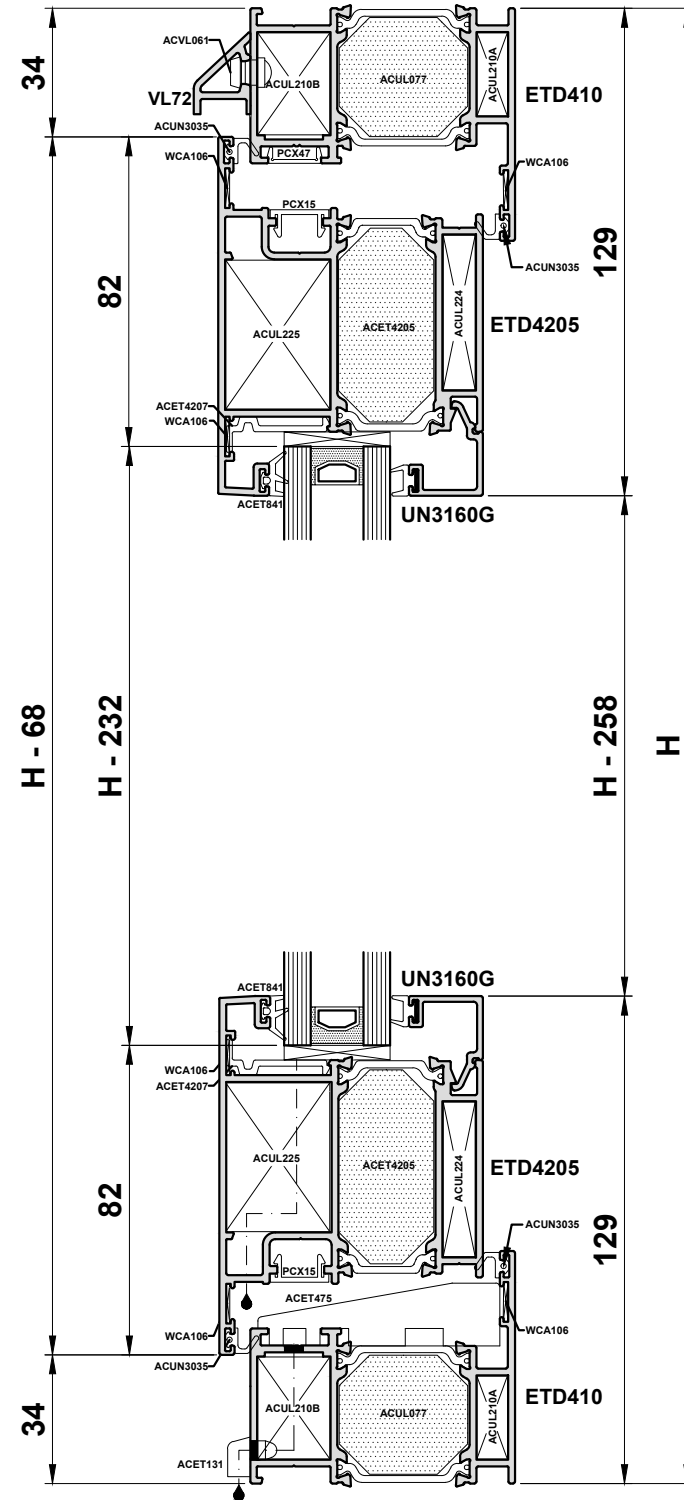
Midrail Accessories		
ACET4302	W	ETD4302 Foam
ACUN3512	4	Screws
ACET841	2 x W	E Gasket



Do Not Scale From This Drawing



Open Out Double Door Lift Lever Full Frame



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	2			W / 2 - 107.5

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

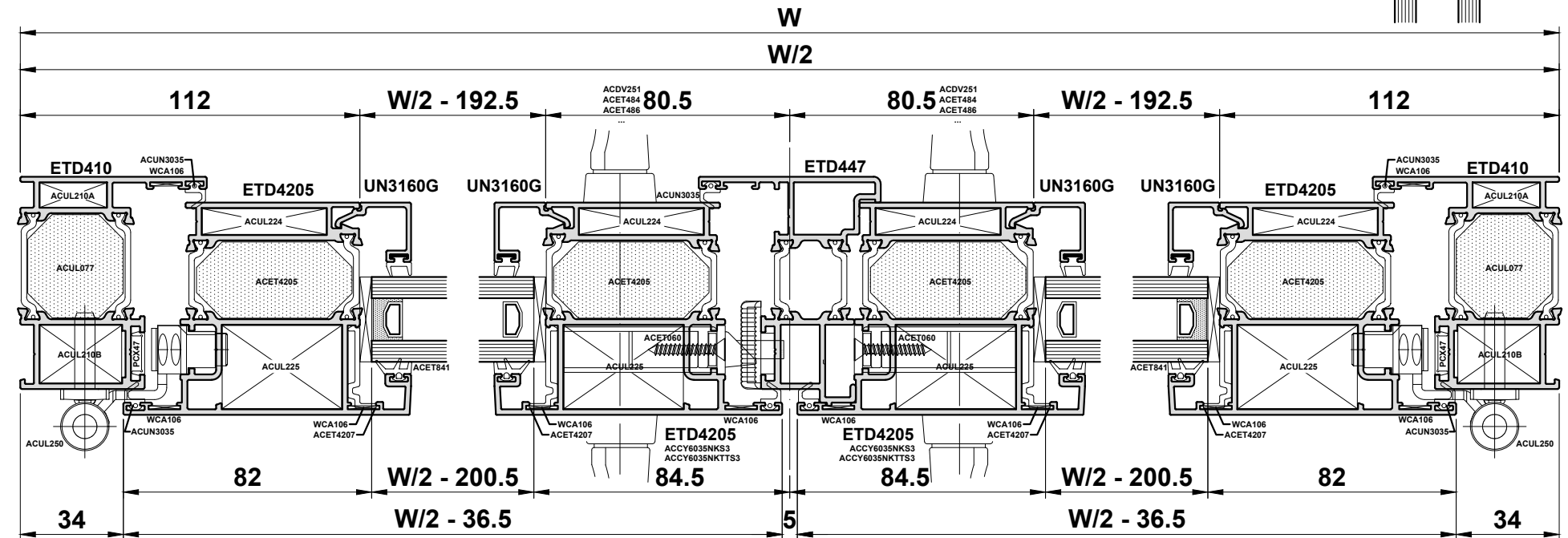
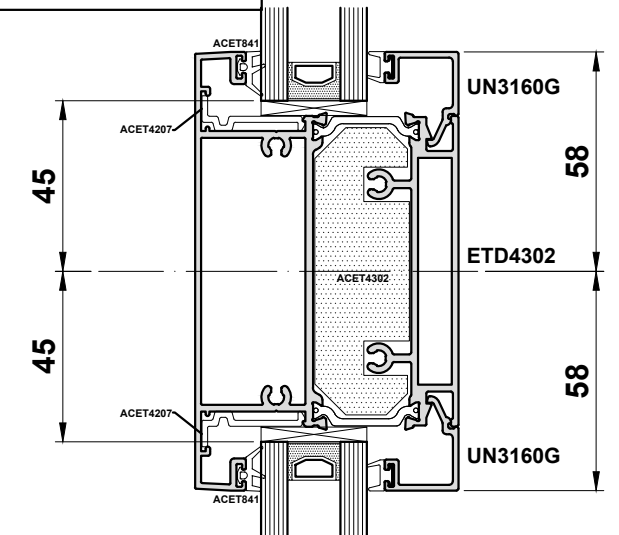
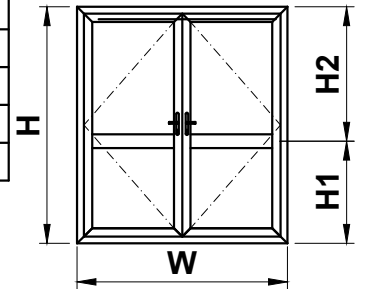
Glass Sizes			
Without ETD4302	H - 232	W / 2 - 200.5	
Top Glass With ETD4302	H2 - 161	W / 2 - 200.5	
Bottom Glass With ETD4302	H1 - 161	W / 2 - 200.5	

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	Glass Packers
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

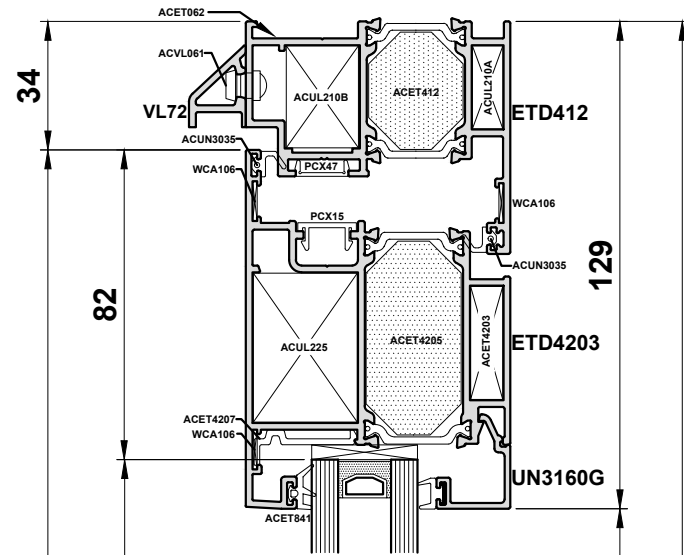
\*See Page E72 for lock options.  
\*\*See B & E for handle options.

Midrail Accessories		
ACET4302	2 x W	ETD4302 Foam
ACUN3512	8	Screws
ACET841	2 x W	E Gasket



Do Not Scale From This Drawing

## Flush Open Out Double Door Lift Lever Full Frame



H - 68  
H - 232  
H - 258  
H

Profile Cutting Schedule				
UN3160G	4			H - 258
UN3160G	4			W / 2 - 193
ETD412	2			W
ETD412	2			H
ETD4203	4			W / 2 - 37
ETD4203	4			H - 68
ETD445	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	2			W / 2 - 107.5

MIDRAIL				
ETD4302	2			W / 2 - 193
UN3160G	8			W / 2 - 193
UN3160G	4			H2 - 187
UN3160G	4			H1 - 187

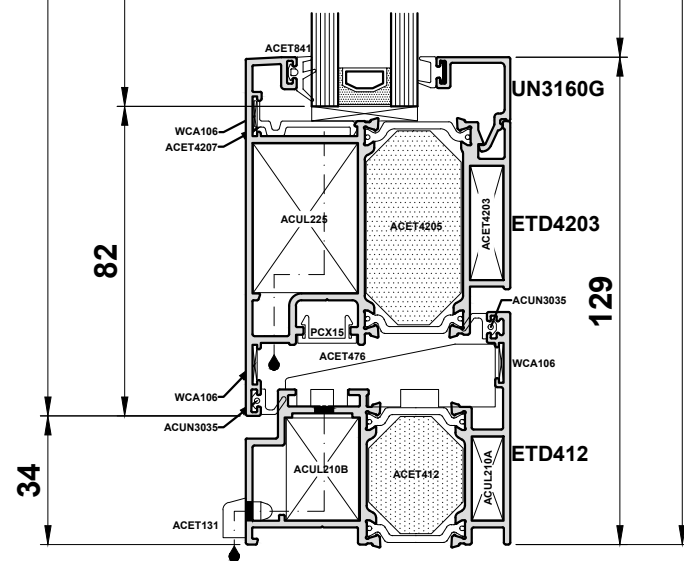
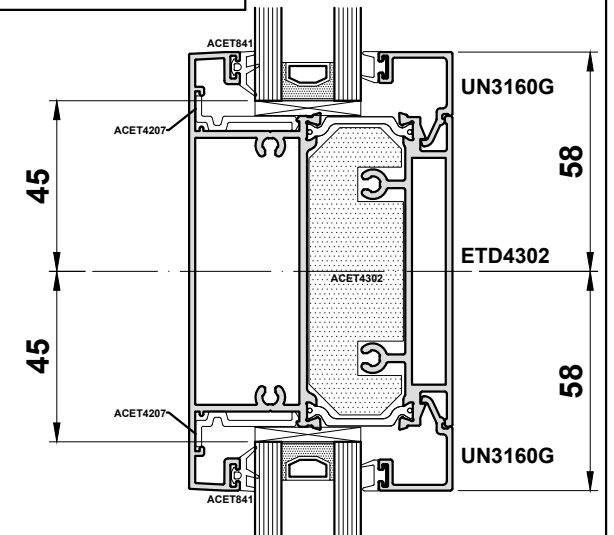
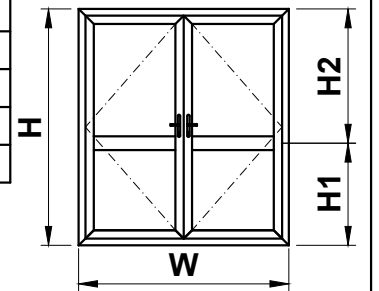
Glass Sizes		
Without ETD4302	H - 232	W / 2 - 201
Top Glass With ETD4302	H2 - 161	W / 2 - 201
Bottom Glass With ETD4302	H1 - 161	W / 2 - 201

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
ACET4157	Pair	ETD445 End Cap
ACET4203	8	Sash Cleat
ACET4205	4 x W / 2 & 4 x H	Sash Foam
ACET476	4	Run Up Block
...	...	Screw for ACUL260
ACET4207	20	Glass Packers
ACET841	4 x W / 2 & 4 x H	E Gasket
ACUL077	2 x W & 2 x H	Outer Frame Foam
ACUL210A	4	Outer Frame Cleat
ACUL210B	4	Outer Frame Cleat
ACUL225	8	Sash Cleat
ACUL260	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

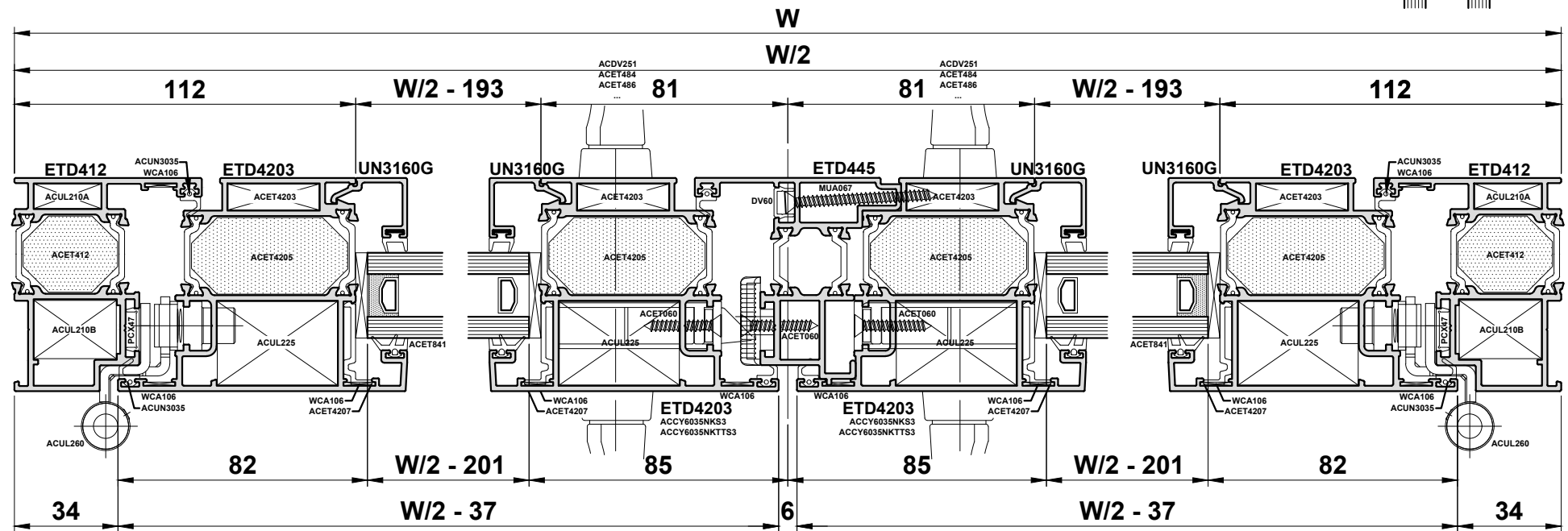
...	...	Screw for ACUL260
ACUN3513	2 + H / 300	Screw for ETD447
ACVL059 / ACVL072	2 Pair	VL72 End Cap
ACVL061	W/300 + 2	VL72 Rivet
WCA106	20	Chevrons

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

Midrail Accessories		
ACET4302	2 x W	ETD4302 Foam
ACUN3512	8	Screws
ACET841	2 x W	E Gasket

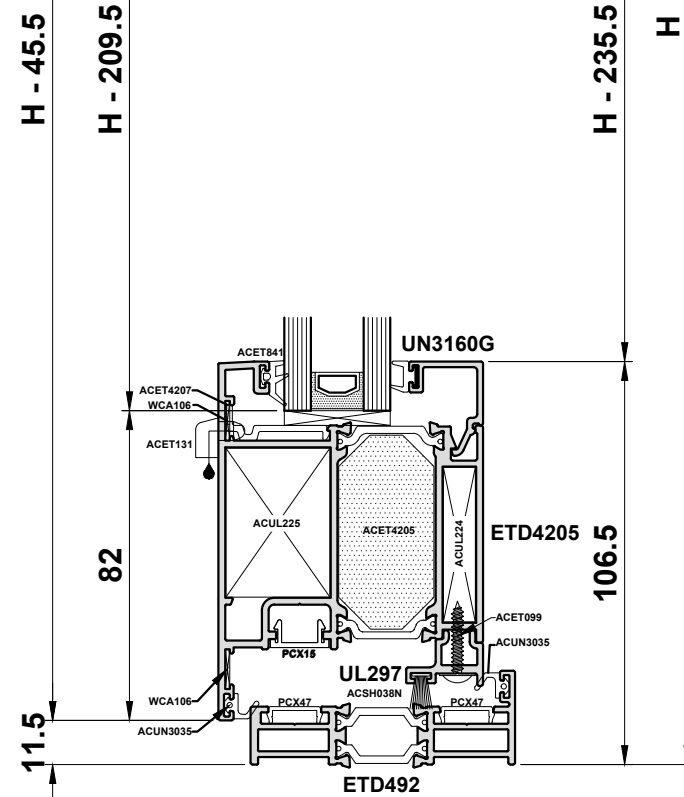
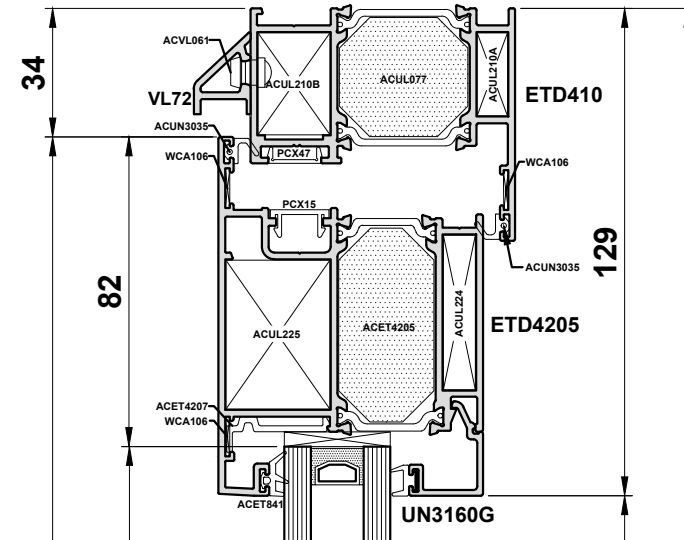


H - 68  
H - 232  
H - 258  
H



Do Not Scale From This Drawing

Open Out Double Door Lift Lever Low Rebate Threshold



Profile Cutting Schedule				
UN3160G	4			H - 235.5
UN3160G	4			W / 2 - 192.5
ETD410	1			W
ETD410	2			H - 15.5
ETD4205	4			W / 2 - 45.5
ETD4205	4			H - 68
ETD447	1			H - 81
ETD492	1			W
UL297	2			W / 2 - 79.5
PCX15	4			H - 106
PCX15	4			W / 2 - 106
PCX47	2			H - 82
PCX47	1			H - 81
PCX47	2			W / 2 - 82
VL72	2			W / 2 - 107.5

MIDRAIL	Glass Sizes			
	ETD4302	2		W / 2 - 192.5
	UN3160G	8		W / 2 - 192.5
	UN3160G	4		H2 - 187
UN3160G	4			H1 - 164.5

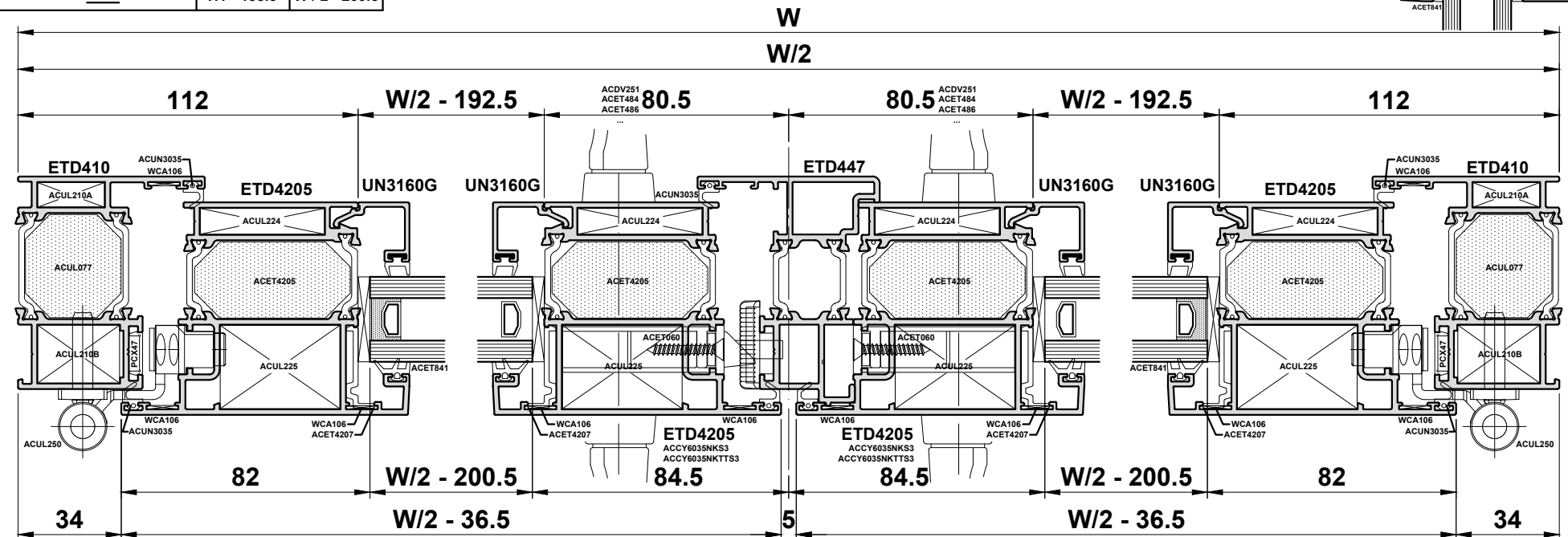
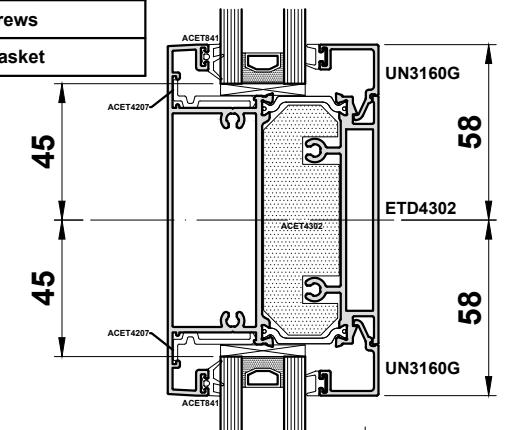
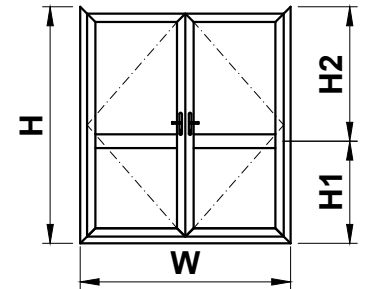
Glass Sizes		
Without ETD4302	H - 209.5	W / 2 - 200.5
Top Glass With ETD4302	H2 - 161	W / 2 - 200.5
Bottom Glass With ETD4302	H1 - 138.5	W / 2 - 200.5

Accessories		
ACCY3560S3	2	Euro Cylinder
ACDV251	2 Pairs	Handles
ACDV737	2	Bottom Shootbolt
ACDV738	2	Top Shootbolt
ACET060	40	Screw for Lock & Keep
ACET060	8	Screw for ACDV737/738
ACET099	W / 2 - 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
ACET4205	4 x W / 2 & 4 x H	Sash Foam
ACET4207	20	Glass Packers
ACET475	4	Run Up Block
ACET841	4 x W / 2 & 4 x H	E Gasket
ACIM062	24	Screw for ACUL250
ACSH038N	1 x W	Woolpile
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 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.

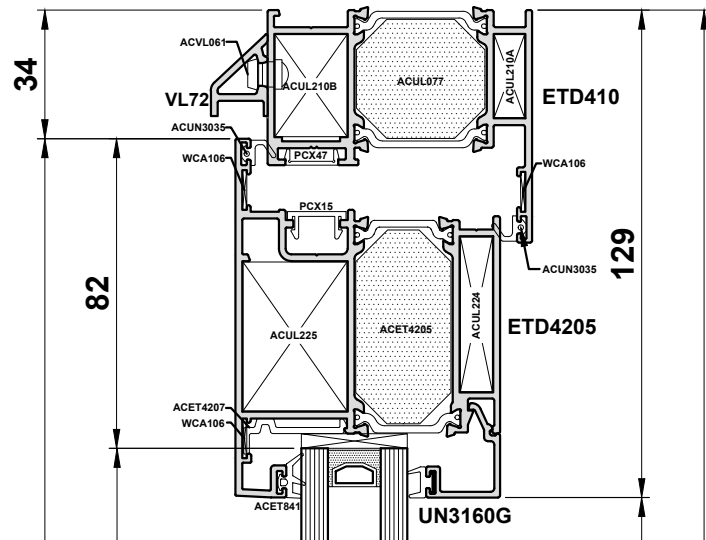
Midrail Accessories		
ACET4302	2 x W	ETD4302 Foam
ACUN3512	8	Screws
ACVG841	2 x W	E Gasket



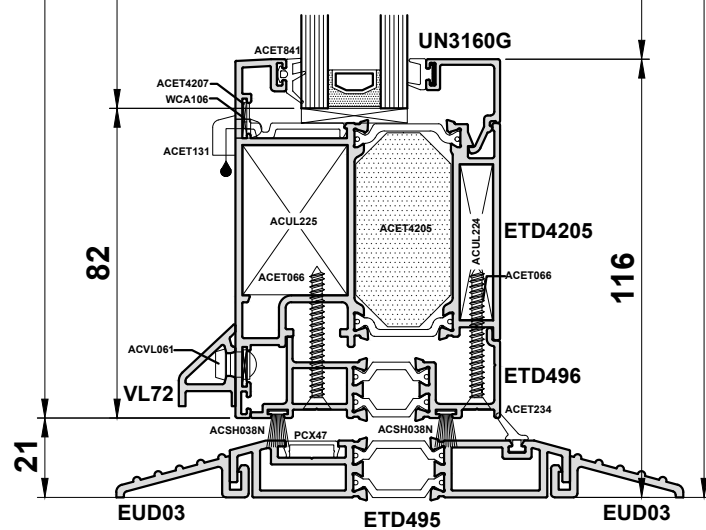
Do Not Scale From This Drawing



**Open Out Double Door Lift Lever Low Ramp Threshold**



H - 55  
H - 219  
H - 245



82  
116

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	2			W / 2 - 107

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

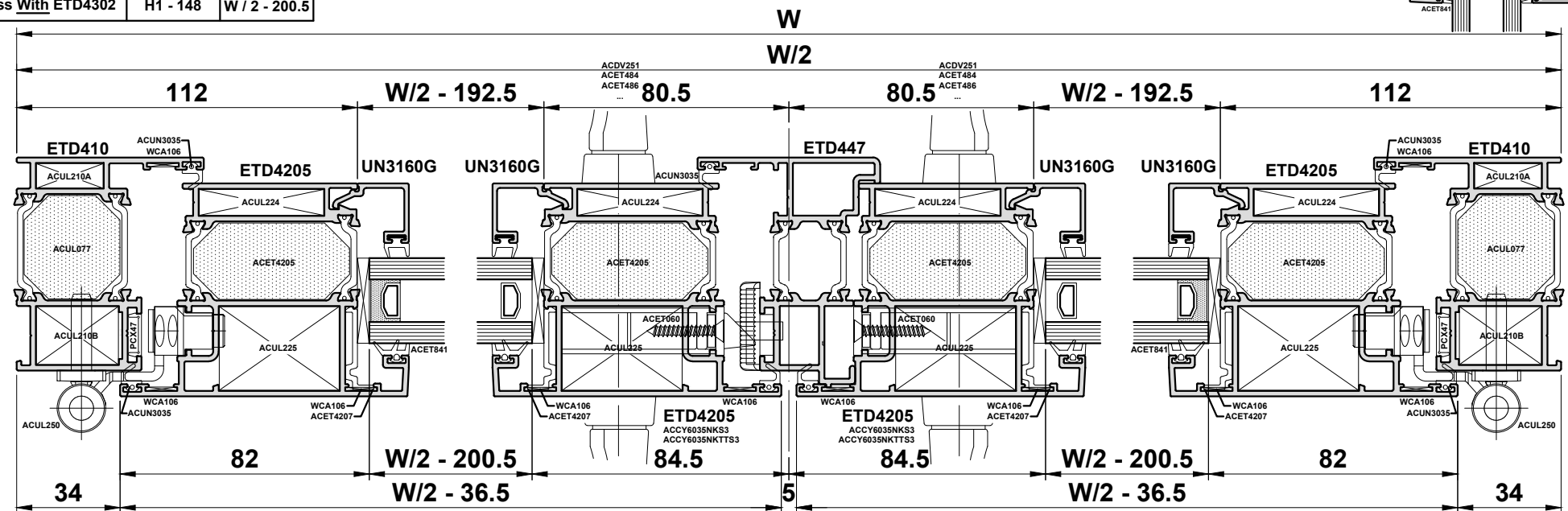
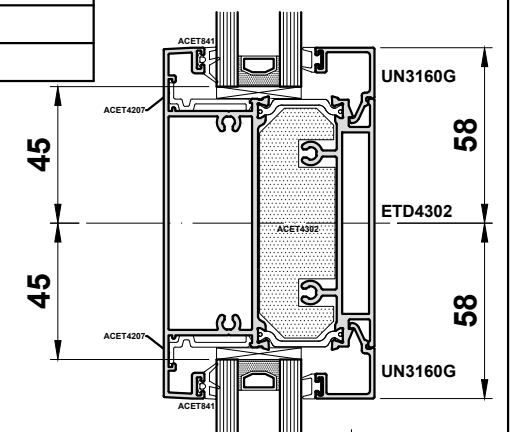
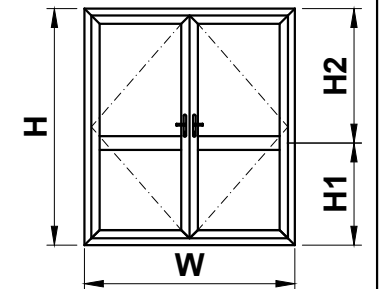
Glass Sizes		
Without ETD4302	H - 219	W / 2 - 200.5
Top Glass With ETD4302	H2 - 161	W / 2 - 200.5
Bottom Glass With ETD4302	H1 - 148	W / 2 - 200.5

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	Glass 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
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

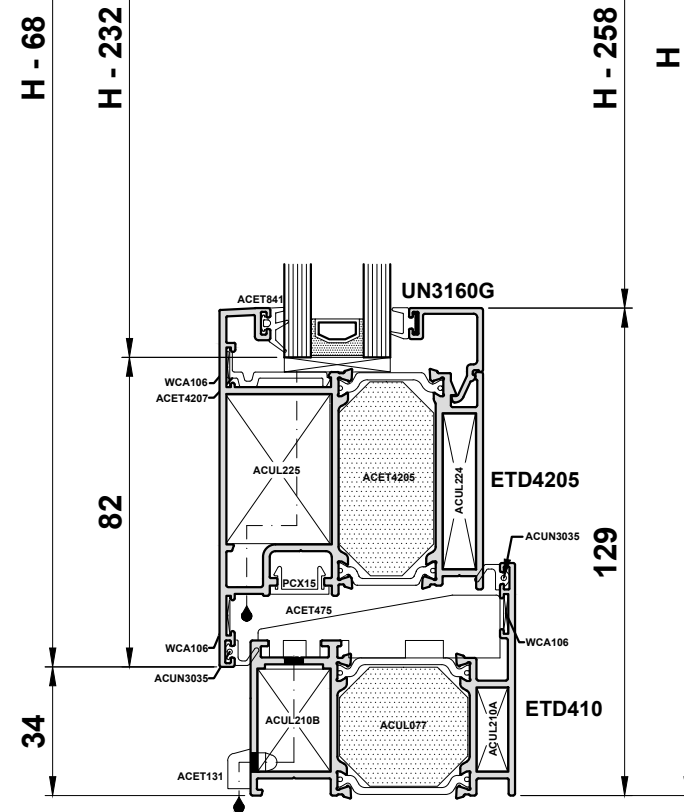
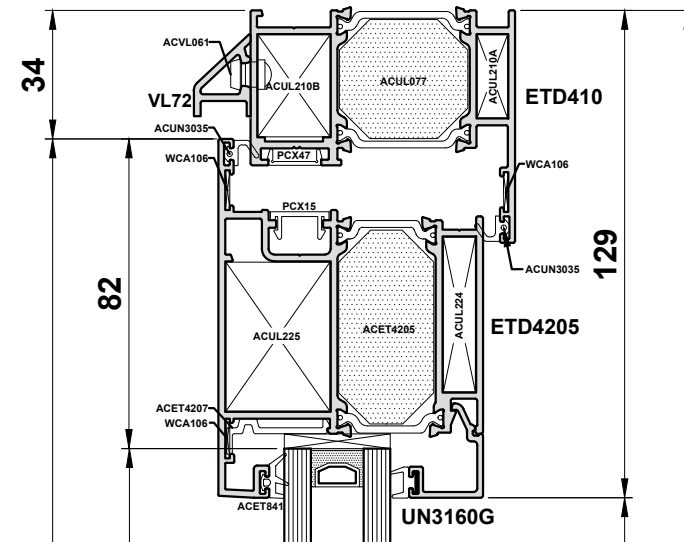
\*See Page E72 for lock options.  
\*\*See B & E for handle options.

Midrail Accessories		
ACET4302	2 x W	ETD4302 Foam
ACUN3512	8	Screws
ACET841	2 x W	E Gasket



**Do Not Scale From This Drawing**

Open Out Double Door Finger Bolt Full Frame



Profile Cutting Schedule				
UN3160G	4			H - 258
UN3160G	4			W / 2 - 196
ETD410	2			W
ETD410	2			H
ETD4205	4			W / 2 - 40
ETD4205	4			H - 68
ETD448	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	2			W / 2 - 107.5

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

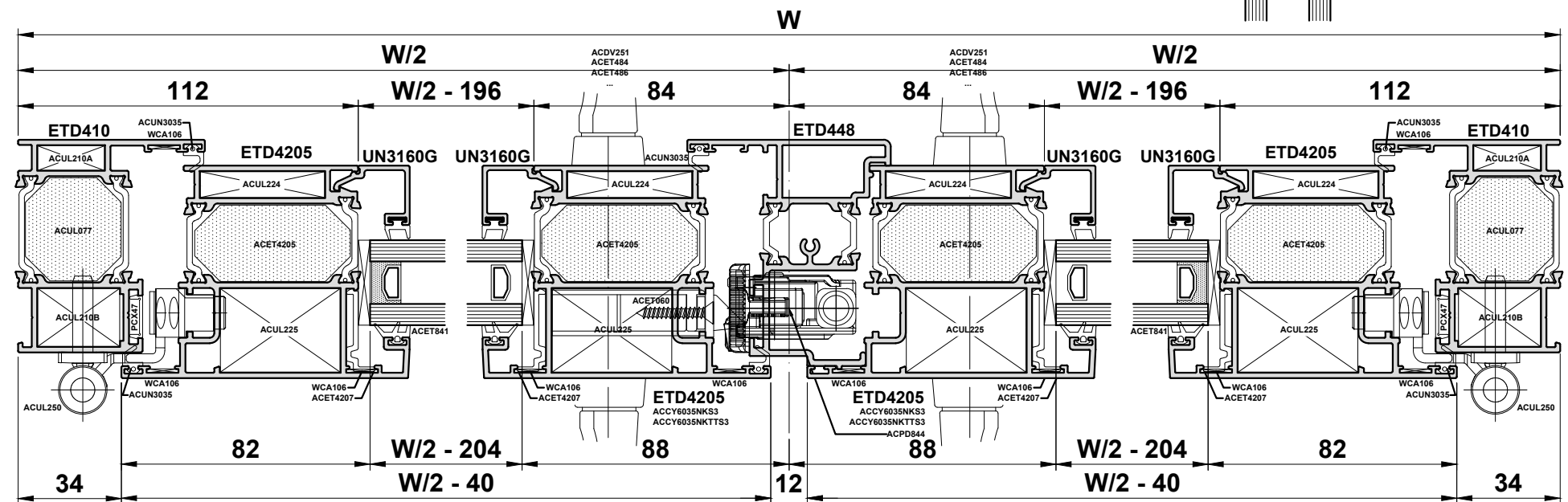
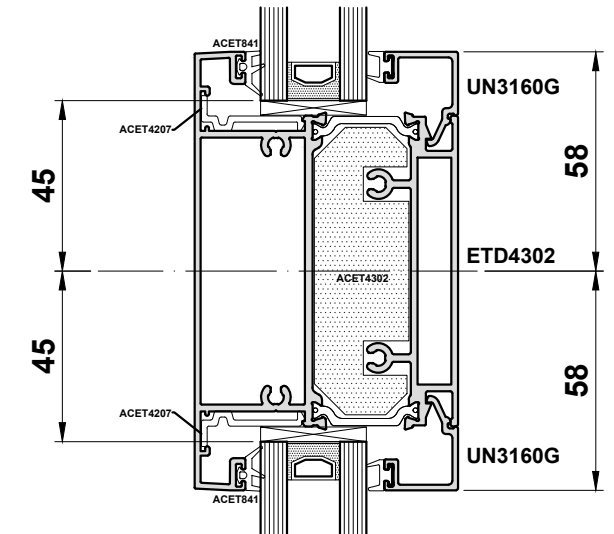
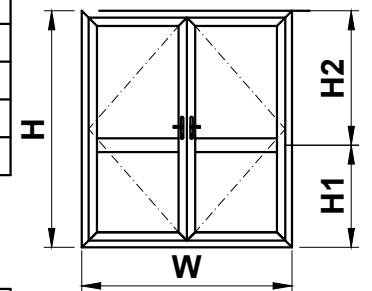
Glass Sizes			
Without ETD4302	H - 232	W / 2 - 204	
Top Glass With ETD4302	H2 - 161	W / 2 - 204	
Bottom Glass With ETD4302	H1 - 161	W / 2 - 204	

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	Glass Packers
ACET475	4	Run Up Block
ACIM062	24	Screw for ACUL250
ACPD844	1	Shootbolt Adaptor
ACPD84..	1	10mm Dia Galvanised 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

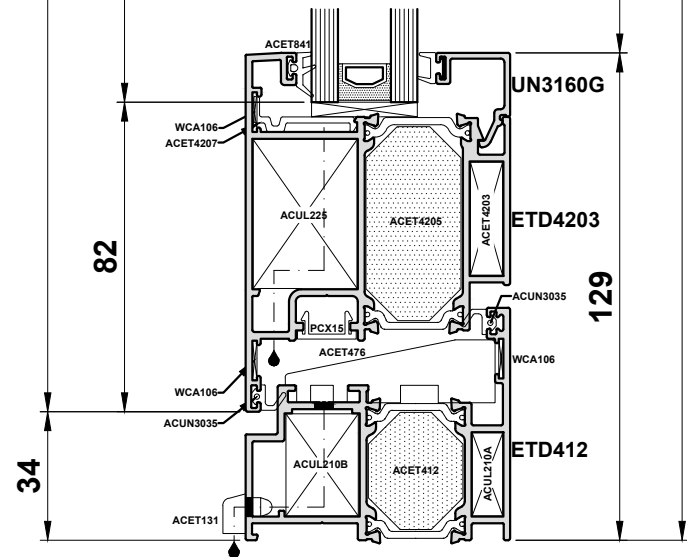
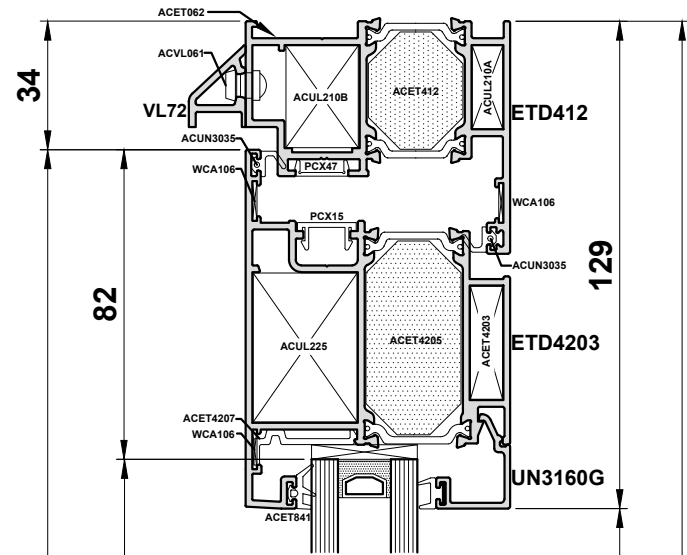
\*See Page E72 for lock options.  
\*\*See B & E for handle options.

Midrail Accessories		
ACET4302	2 x W	ETD4302 Foam
ACUN3512	8	Screws
ACET841	2 x W	E Gasket



Do Not Scale From This Drawing

**Flush Open Out Double Door Finger Bolt Full Frame**



Profile Cutting Schedule				
UN3160G	4			H - 258
UN3160G	4			W / 2 - 196
ETD412	2			W
ETD412	2			H
ETD4203	4			W / 2 - 40
ETD4203	4			H - 68
ETD446	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	2			W / 2 - 107.5

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

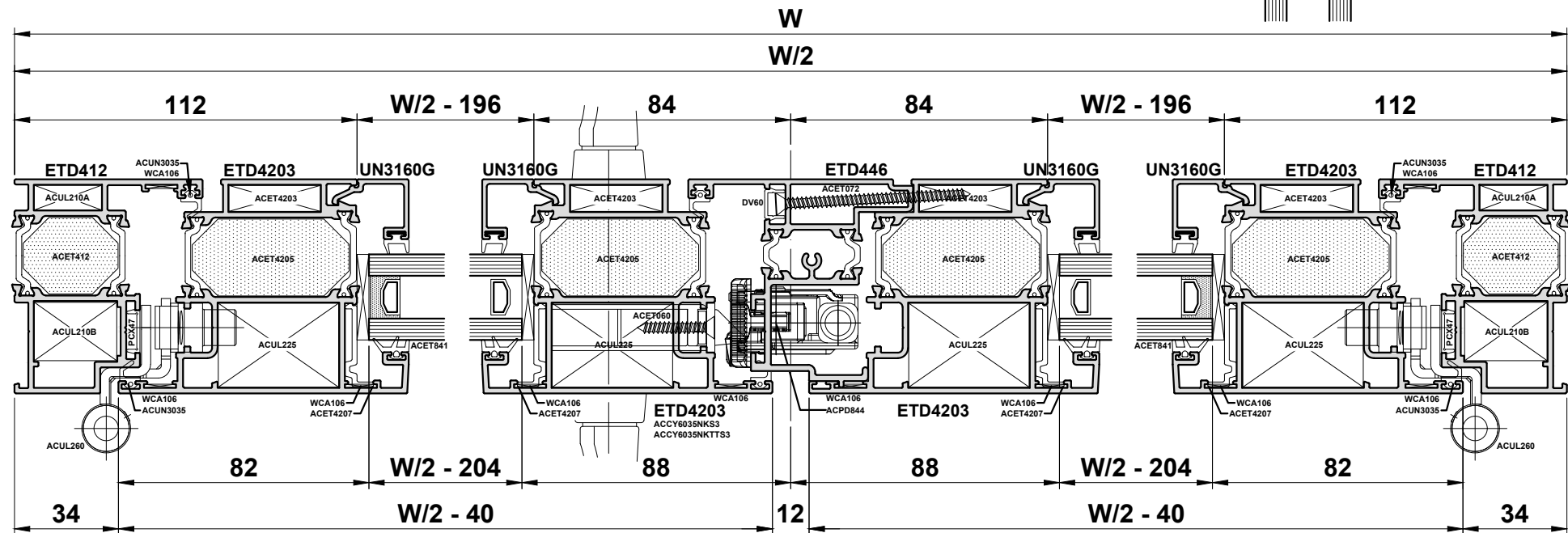
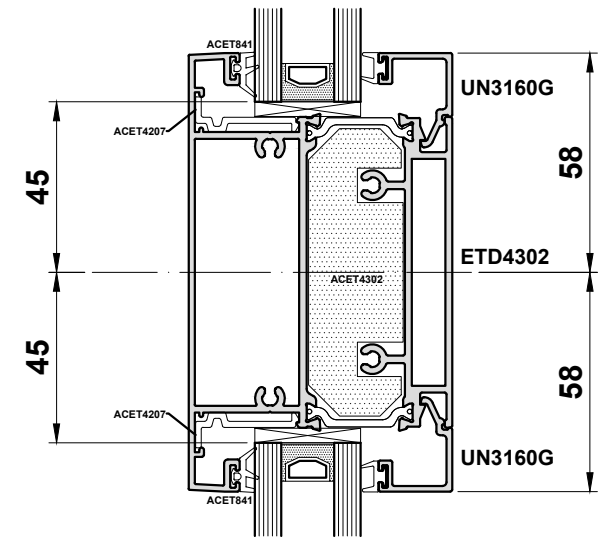
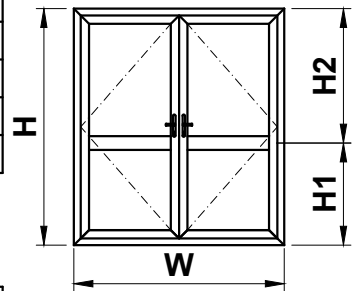
Glass Sizes		
Without ETD4302	H - 232	W / 2 - 204
Top Glass With ETD4302	H2 - 161	W / 2 - 204
Bottom Glass With ETD4302	H1 - 161	W / 2 - 204

Accessories		
ACCY3560S3	1	Euro Cylinder
**	**	Handles
ACET060	16	Screw for Lock
ACET131	X	Drainage Cap
ACET4158	Pair	ETD448 End Cap
ACET4203	8	Sash Cleat
ACET4205	2 x W & 4 x H	Sash Foam
ACET4207	20	Glass Packers
ACET475	4	Run Up Block
...	...	Screw for ACUL260
ACPD844	1	Shootbolt Adaptor
ACPD84..	1	10mm Dia Galvanised Rod
ACSM015	Pair	Escutcheon
ACET412	2 x W & 2 x H	Outer Frame Foam
ACUL210A	4	Outer Frame Cleat
ACUL210B	4	Outer Frame Cleat
ACUL225	8	Sash Cleat
ACUL242	2	Finger Bolt Guide
ACUL260	6	Hinge
ACUL390	Pair	Finger Bolt Flat Keep
ACUN3035	4 x W & 6 x H	Flipper Gasket
...	...	Screw for ACUL260
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.

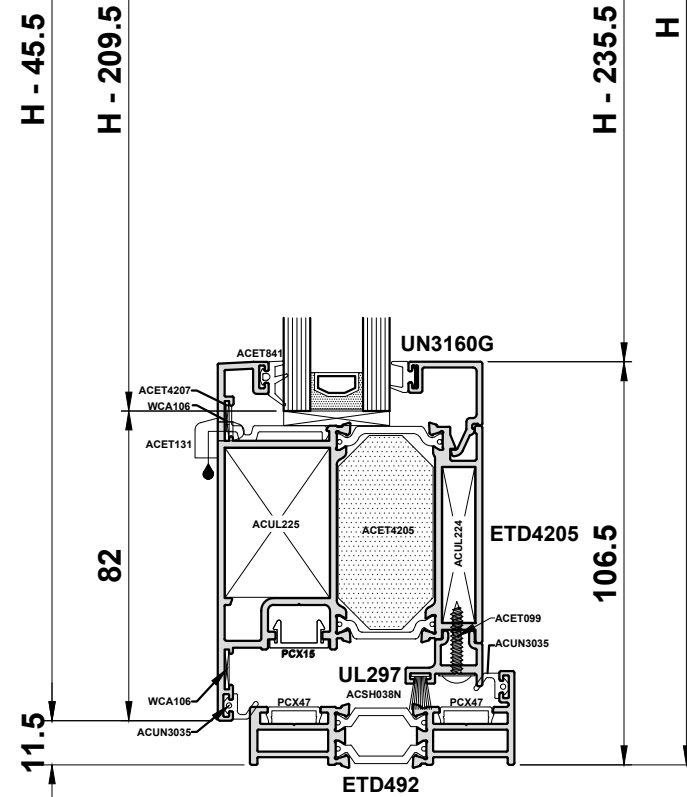
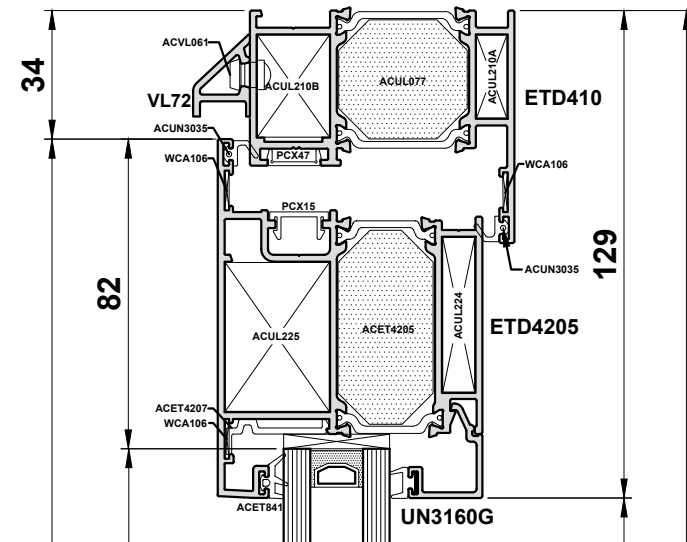
Midrail Accessories		
ACET4302	2 x W	ETD4302 Foam
ACUN3512	8	Screws
ACET841	2 x W	E Gasket



Do Not Scale From This Drawing



Open Out Double Door Finger Bolt Low Rebate Threshold



Profile Cutting Schedule				
ETD410	1			W
ETD410	2			H - 15.5
ETD492	1			W
ETD4205	4			W / 2 - 40
ETD4205	4			H - 45.5
ETD448	1			H - 81
UL297	2			W / 2 - 83
UN3160G	4			H - 235.5
UN3160G	4			W / 2 - 196
PCX15	2			H - 106
PCX15	4			W / 2 - 106
PCX47	2			H - 82
PCX47	1			H - 81
PCX47	2			W / 2 - 82
VL72	2			W / 2 - 110.5

MIDRAIL	Profile Cutting Schedule			
	ETD4302	2		W / 2 - 196
	UN3160G	8		W / 2 - 196
	UN3160G	4		H1 - 164.5
UN3160G	4		H2 - 187	

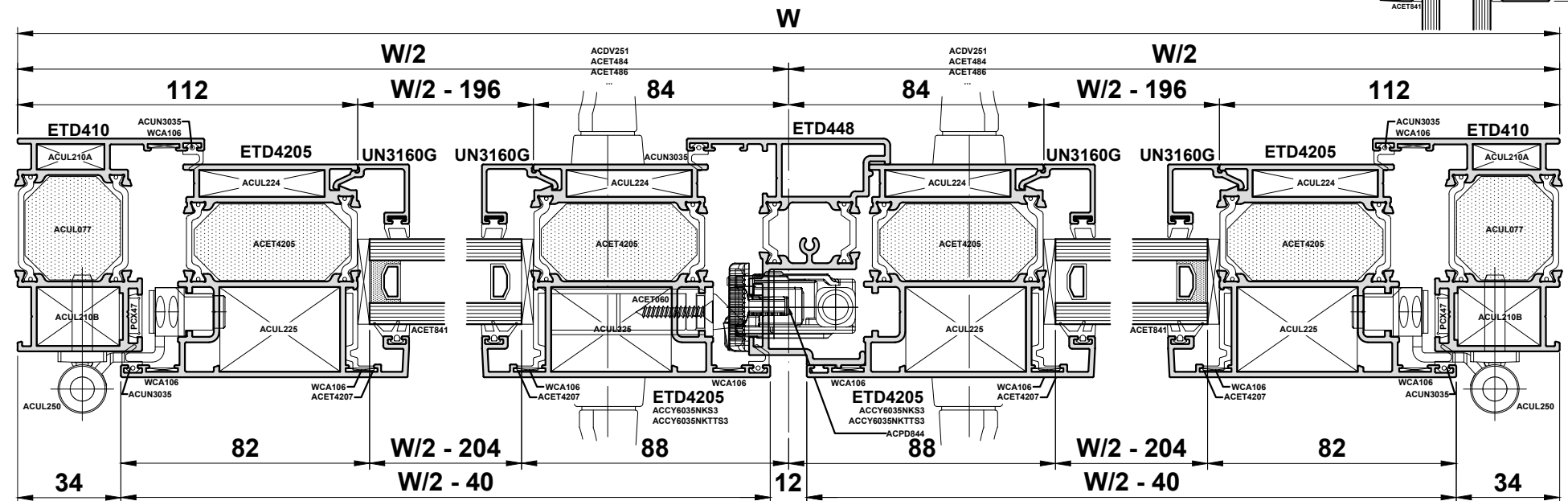
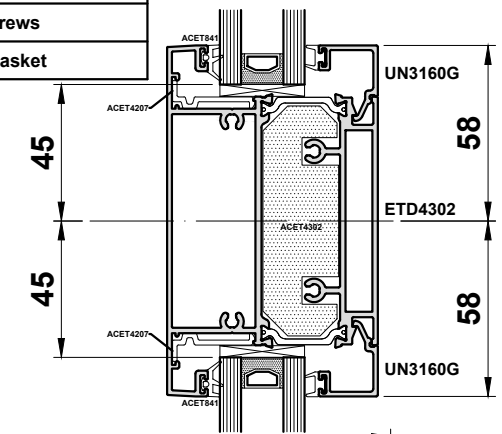
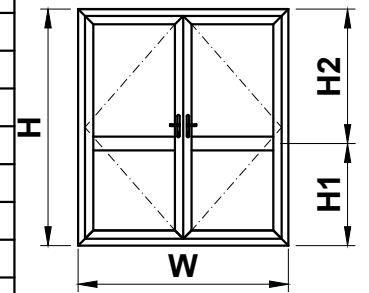
Glass Sizes		
Without ETD430	H - 209.5	W / 2 - 204
Top Glass With ETD430	H2 - 161	W / 2 - 204
Bottom Glass With ETD430	H1 - 138.5	W / 2 - 204

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	Glass 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 Galvanised 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	Chevrons
*	1	Double Door Primary Lock

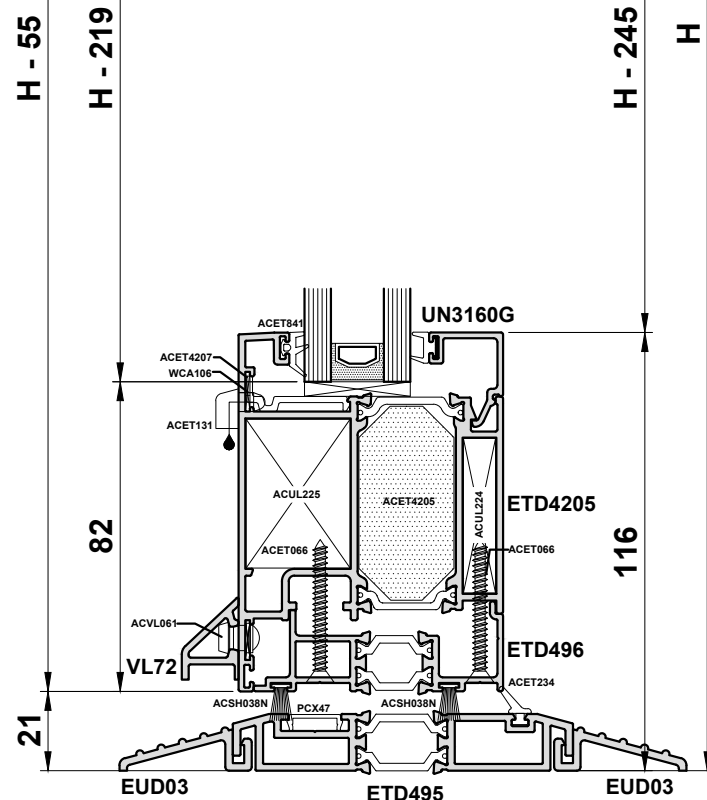
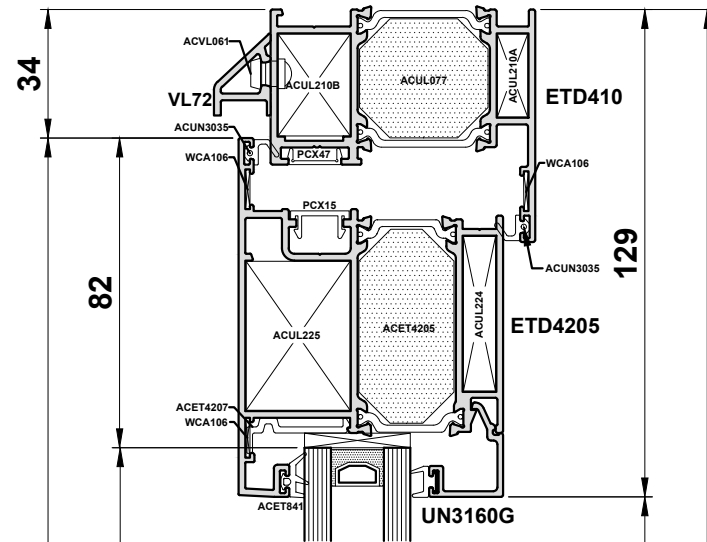
\*See Page E72 for lock options.  
\*\*See B & E for handle options.

Midrail Accessories		
ACET4302	2 x W	ETD4302 Foam
ACUN3512	8	Screws
ACET841	2 x W	E Gasket



Do Not Scale From This Drawing

Open Out Double Door Finger Bolt Low Ramp Threshold



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	2			W / 2 - 110.5

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

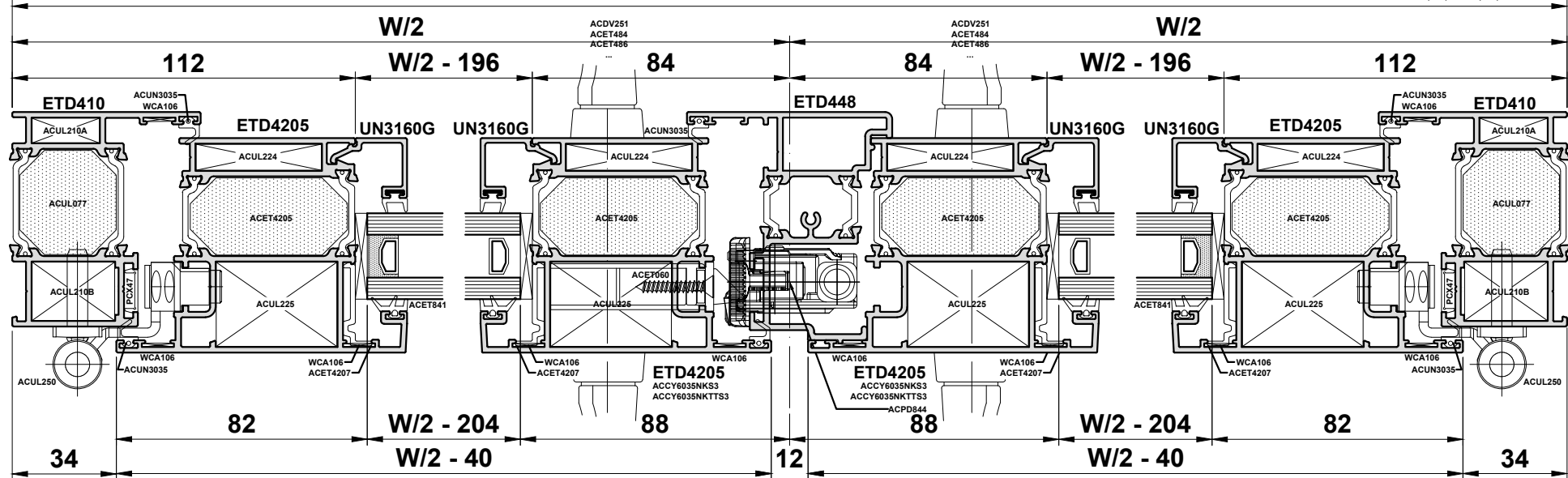
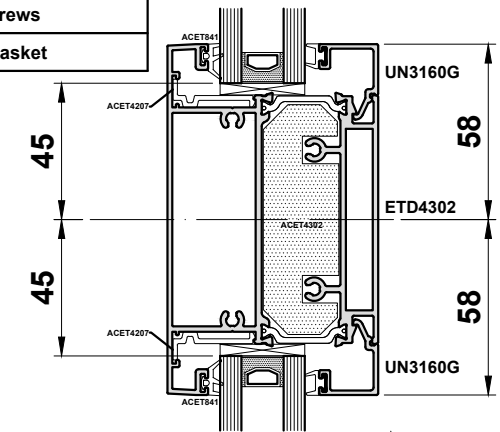
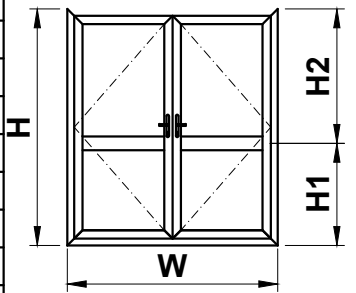
Glass Sizes		
Without ETD4302	H - 219	W / 2 - 204
Top Glass With ETD4302	H2 - 161	W / 2 - 204
Bottom Glass With ETD4302	H1 - 148	W / 2 - 204

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	Glass 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 Galvanised 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	ETD4302 Foam
ACUN3512	8	Screws
ACET841	2 x W	E Gasket



Do Not Scale From This Drawing