Technical Bulletin's

The following Technical Bulletin's

ETC017
ETC027
ETC123
ETC165
ETC178
ETC179
ETC475
ETC575

Were released after the February 2007 manual had gone to press.

We have attached these Technical notes
at the front of your February 2007 manual for easy reference.

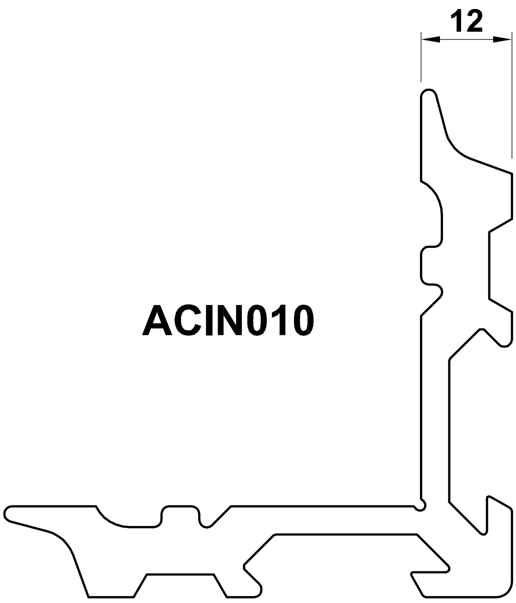
Note: Main Index follows after these Bulletin's

Bulletin

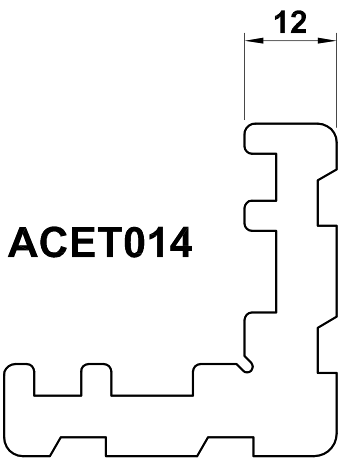
ACIN010 has been superseded by ACET014 to enable the corners to be double crimped.

The crimping punch required for ACET014 is ACET904. The vee blocks are unchanged.

ACIN010

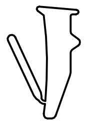


ACET014



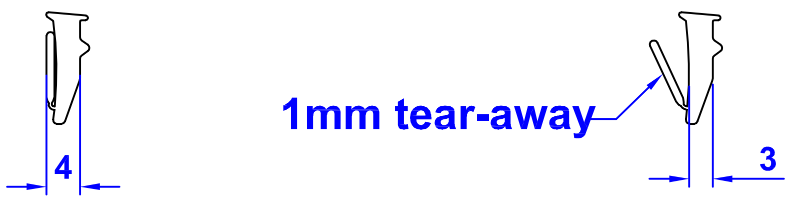
Bulletin

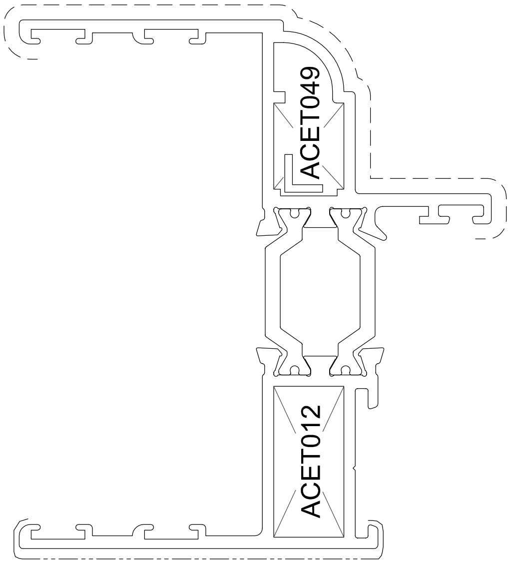
New

Image	Part Code	Pack	Unit	Application
	**ACW20038** **4-3mm Tear-away Low-line Wedge Gasket Black Only**	**200**	**m**	**Alitherm series, Evolution**

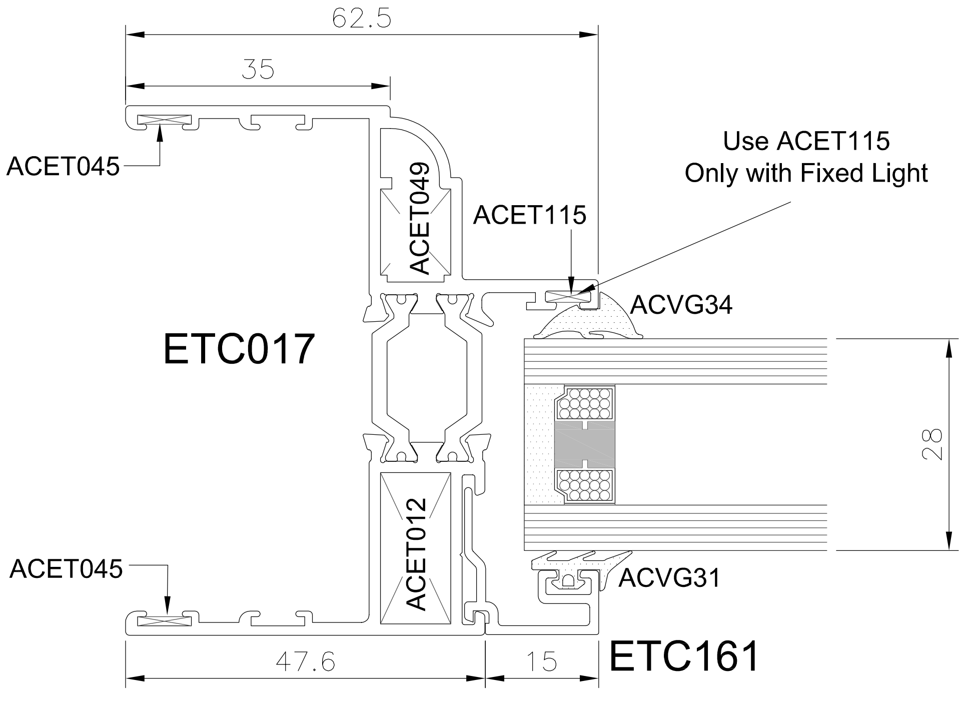
ACW20038

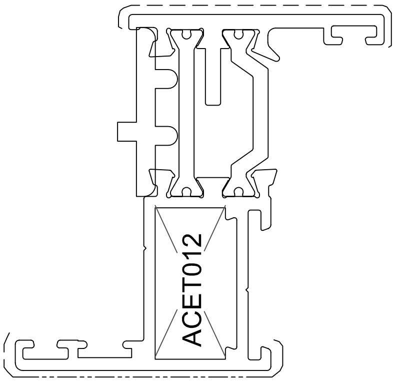
New alternative wedge gasket to ACW20034 with tear-away strip to reduce from a 4mm wedge to 3mm wedge.



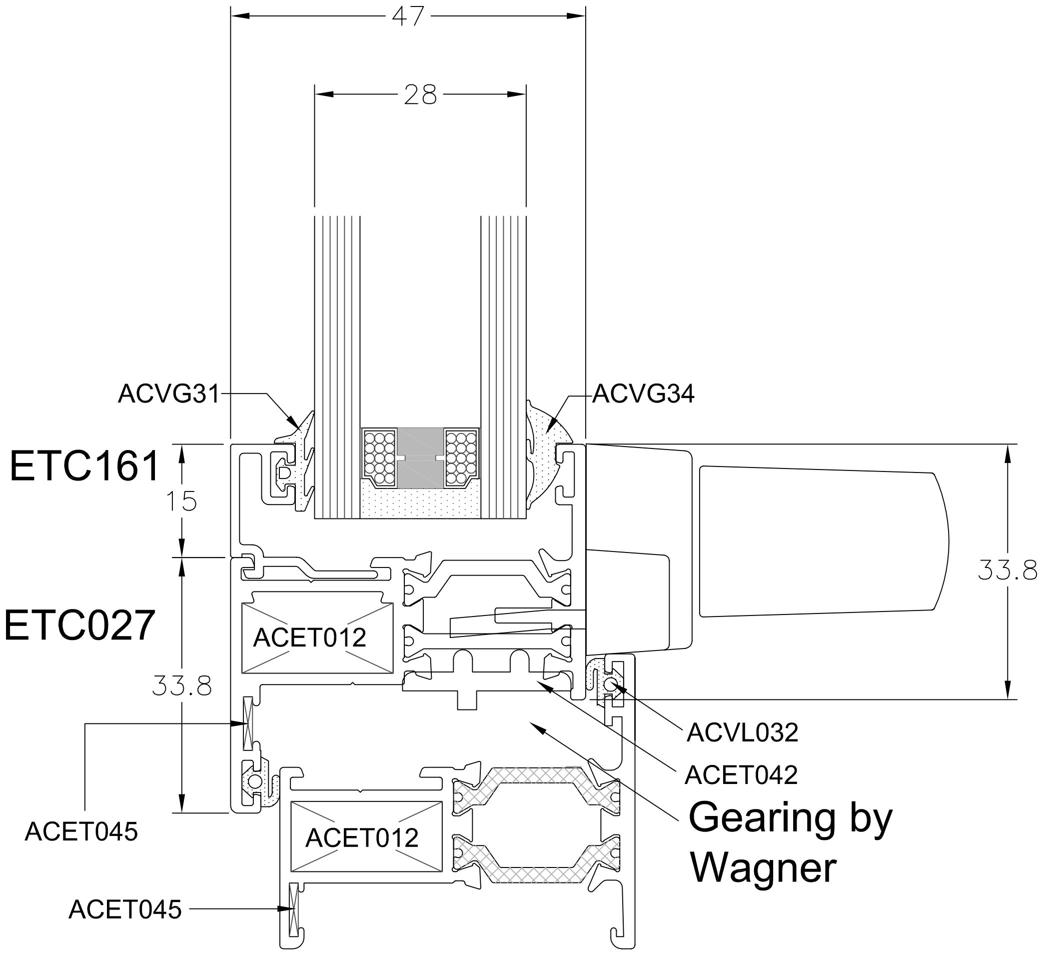


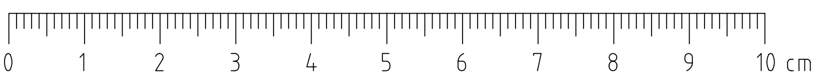
ETC017			
ALITHERM 47 - Window Deep Outer frame			
	Ixx	Iyy	L
449	26.5	7.9	6500

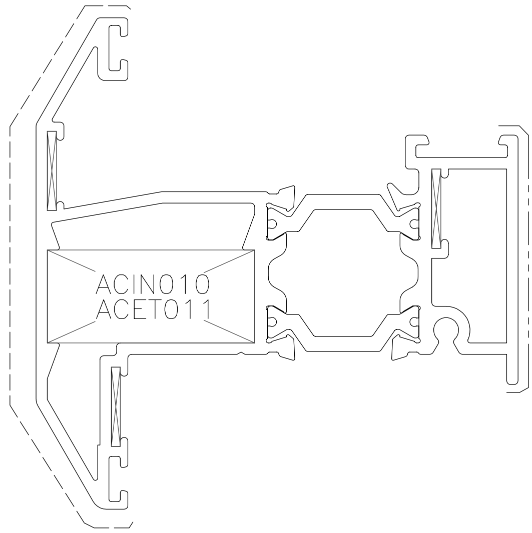




ETC027			
ALITHERM 47 - Window Vent Only			
☐	Ixx	Iyy	L
299	9.3	2.8	6500

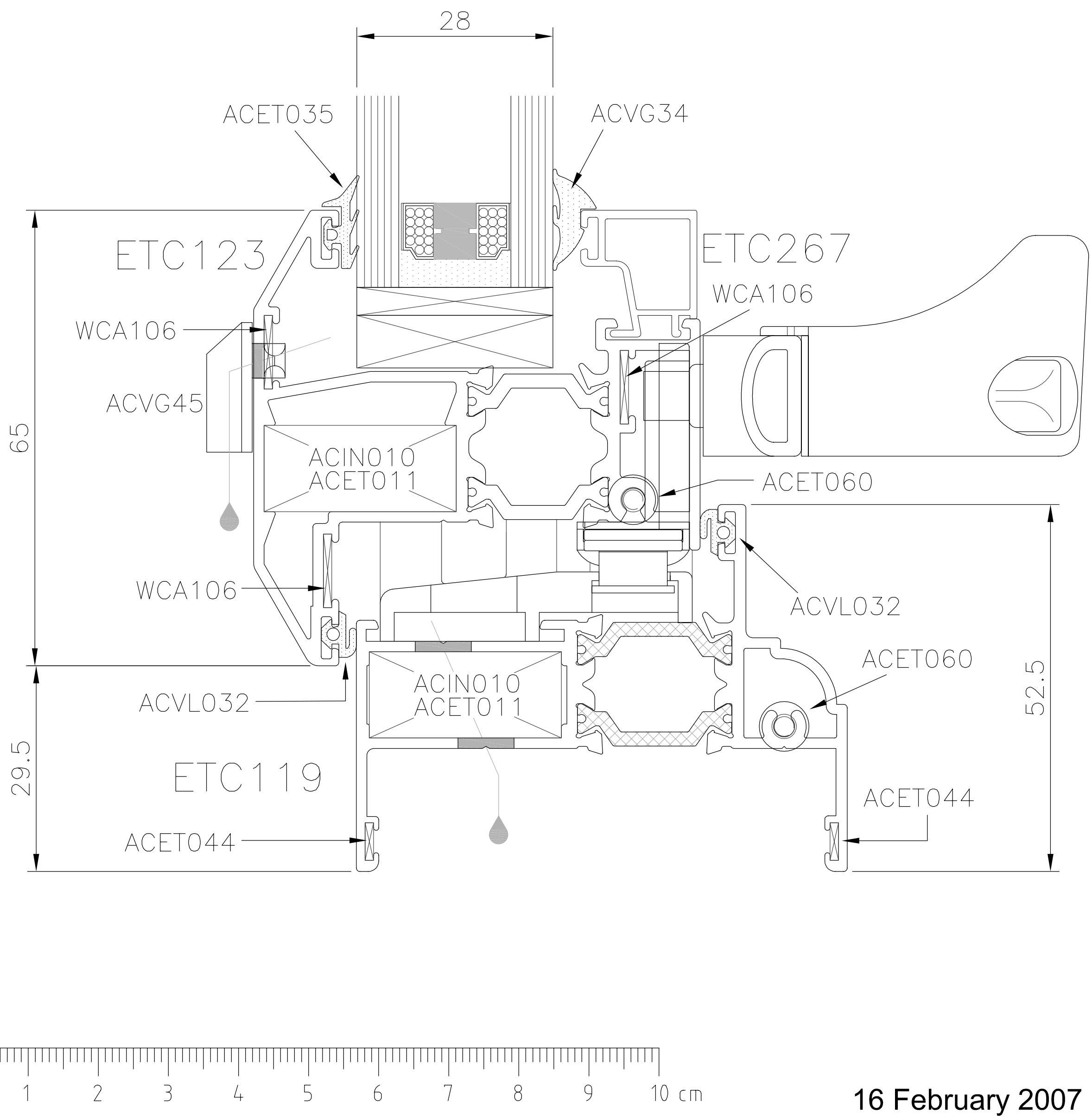


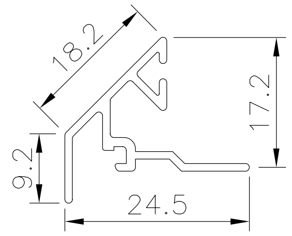




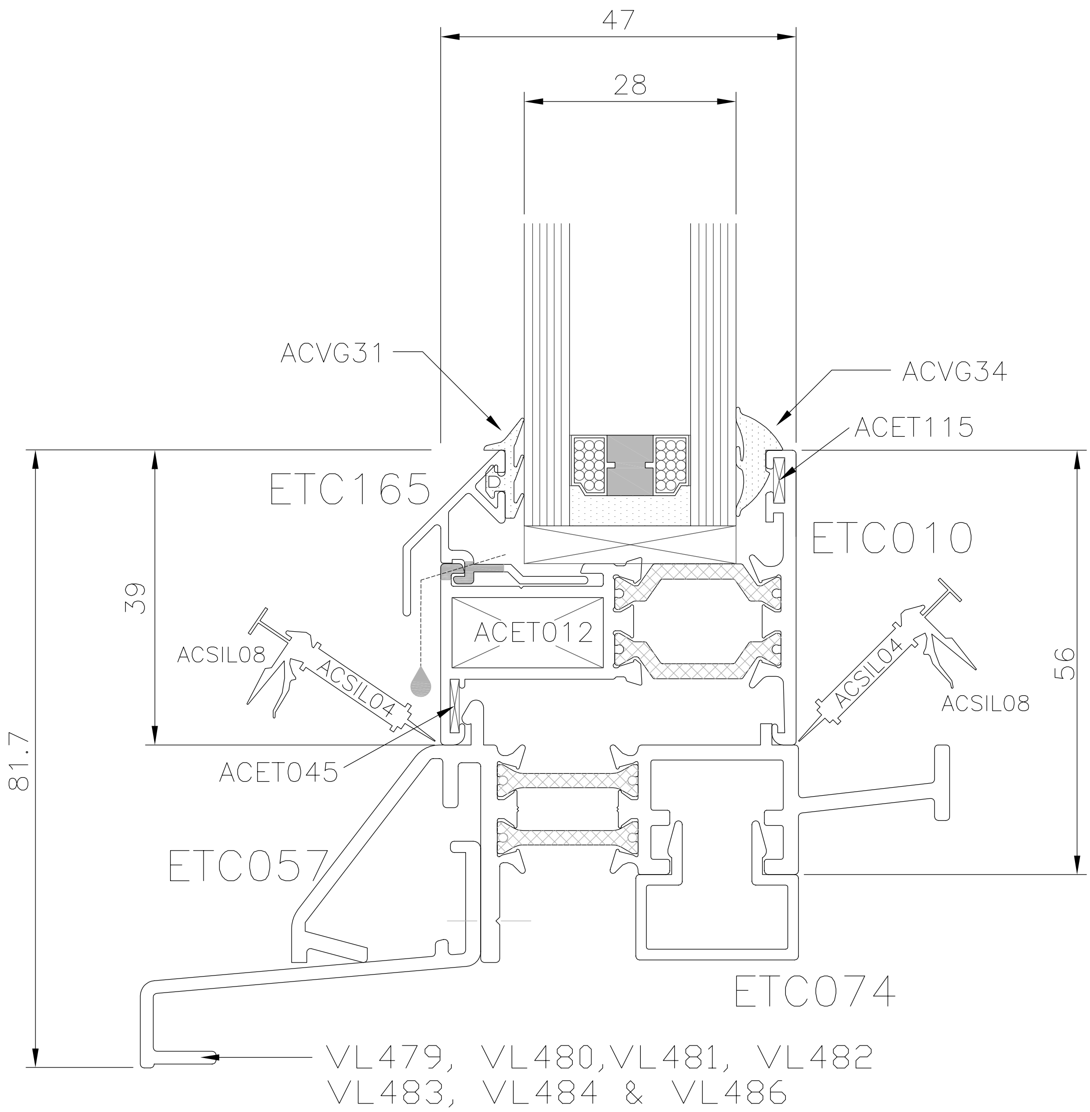
ETC123			
ALITHERM 55 - Sash Internally Beaded			
	Ixx	Iyy	L
349	23.5	10.3	6500

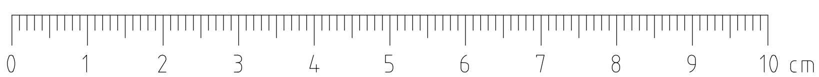
Note: Dummy Vent NOT YET Available





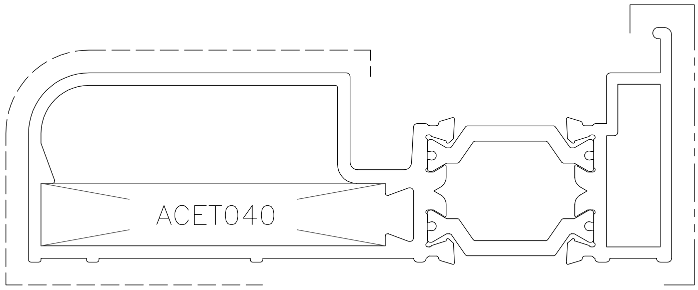
ETC165			
ALITHERM 47 - External Glazing Bead			
⧉	Ixx	Iyy	L
131			6500

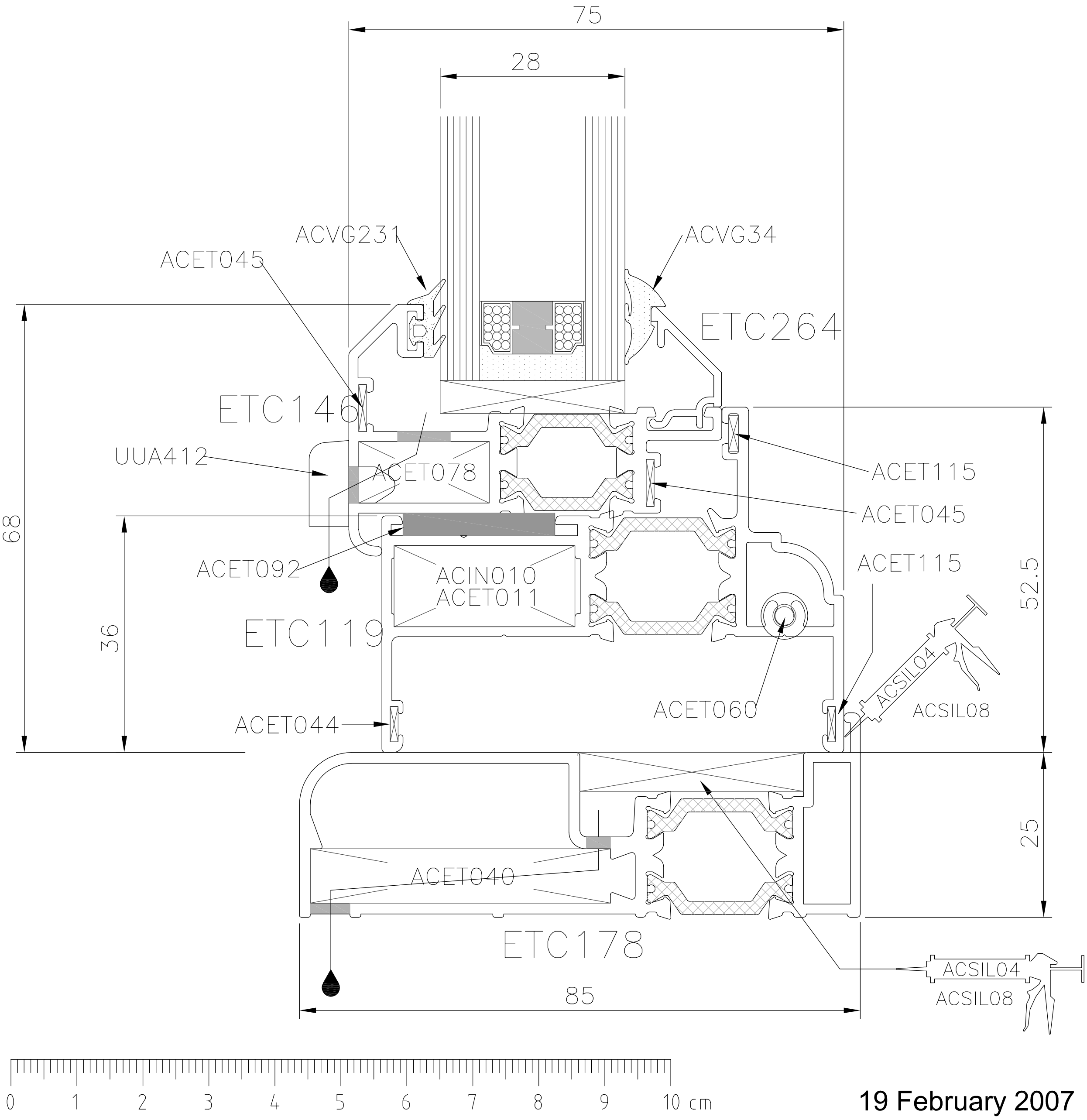




19 February 2007

ETC178			
ALITHERM 55 - 85mm Stub Sill			
	Ixx	Iyy	L
258			6500



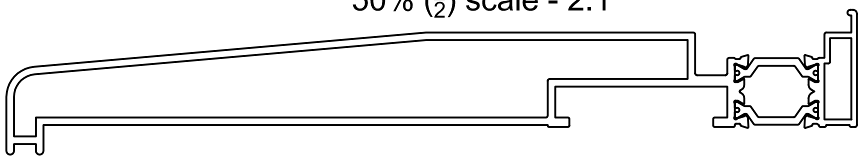


ETC179

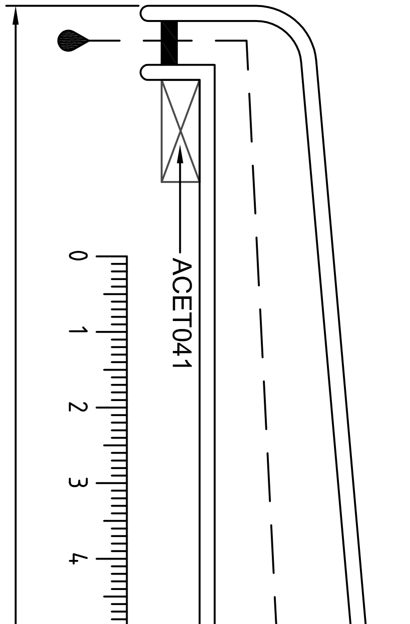
ALITHERM 55 - 225mm Sill

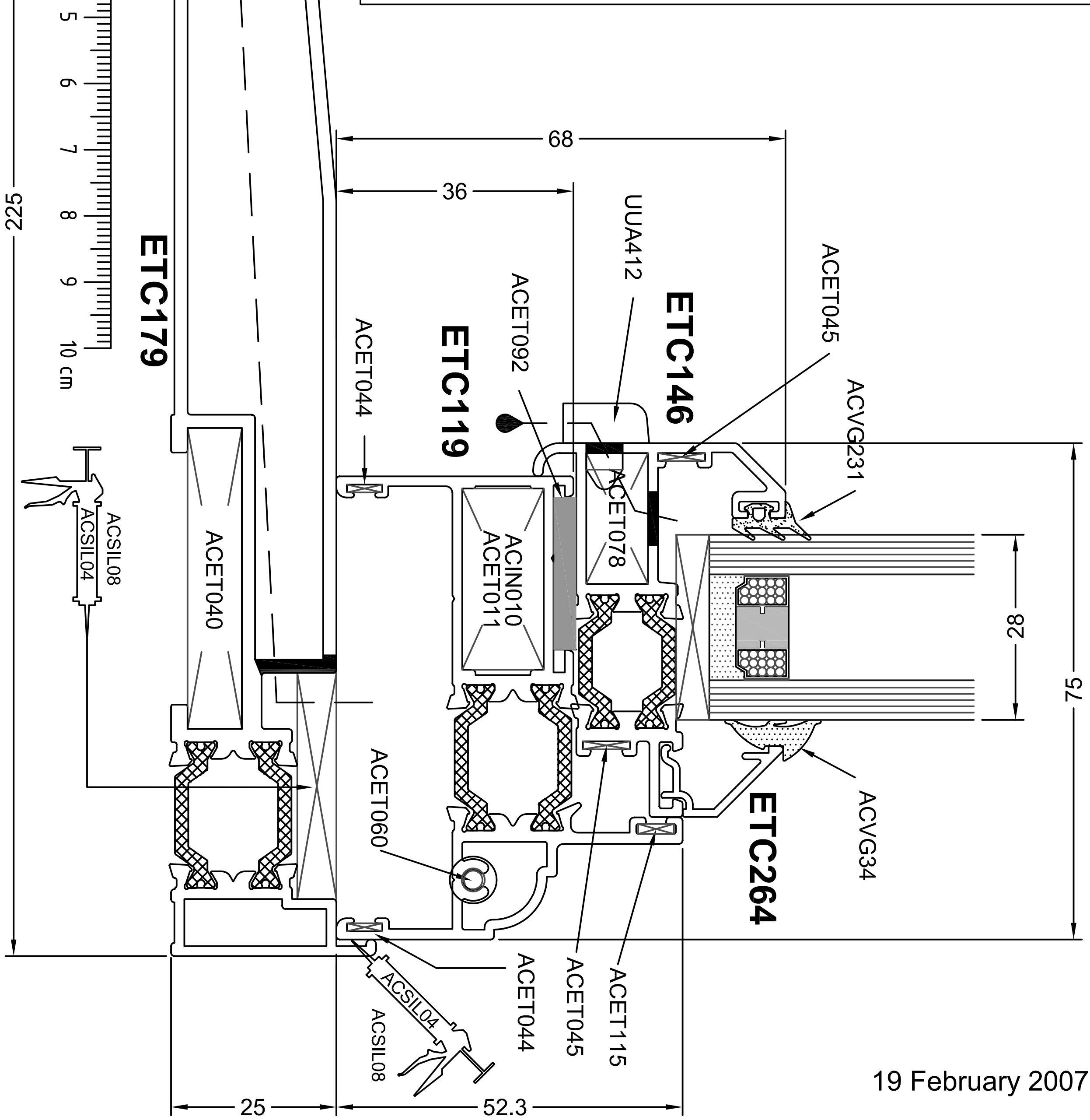
⧉	Ixx	Iyy	L
436			6500

This Inset drawn at 50% ($\frac{1}{2}$) scale - 2:1

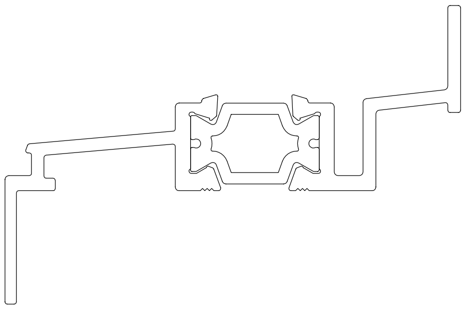


End Cap - ACET179





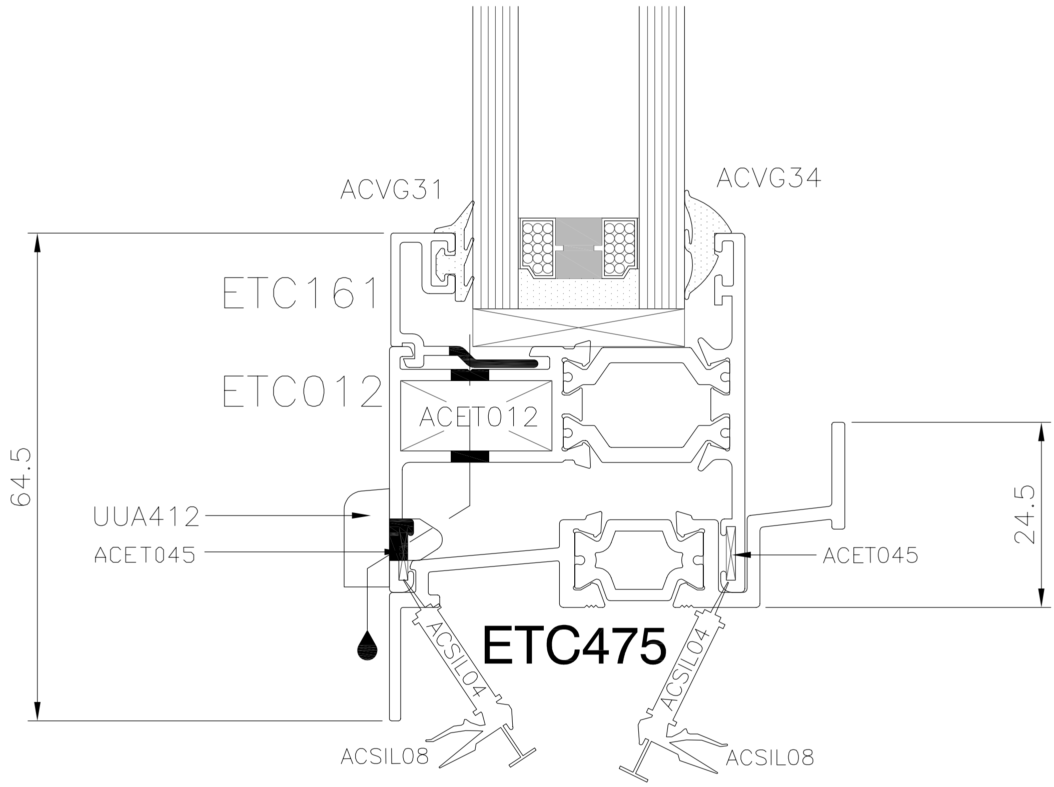
19 February 2007

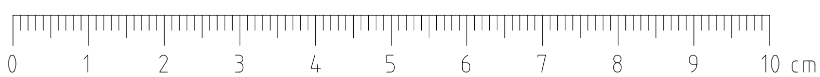


ETC475

ALITHERM 47 SYSTEM
ETC012 CONDENSATION TRAY

	Ixx	Iyy	L
475mm			6500mm





26 June 2006

BULLETIN

Alitherm Technical Manual Update

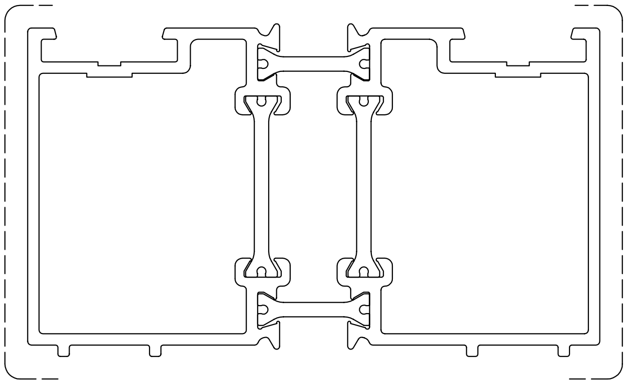
Please find enclosed additional page(s) for the above Technical Manual from Smart Systems. The attached page(s) should be placed at the front of the relevant Technical Manual.

If you have any queries regarding this bulletin please contact the Technical Department on 01934 876100

SMART SYSTEMS LTD ARNOLDS WAY YATTON NORTH SOMERSET BS49 4QN
Tel: 01934 876100 Fax: 01934 835169 Email: sales@smartsystems.co.uk Web site: www.smartsystems.co.uk

ALITHERM

Primary Paint – – – – – –



ETC515

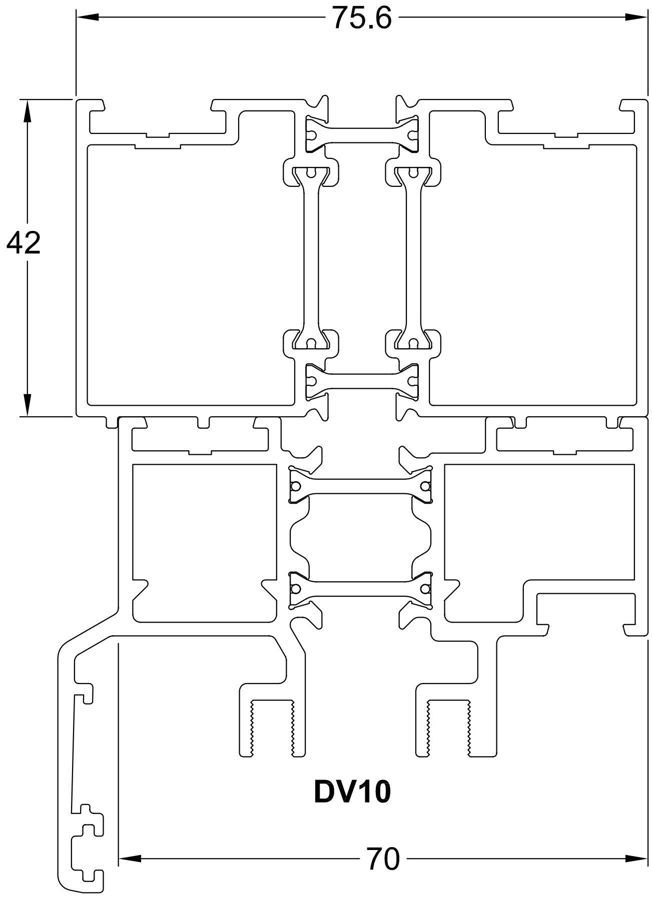
42mm Head Extention
for 70mm Outer Frame

	Ixx	Iyy	L
631.59			6500

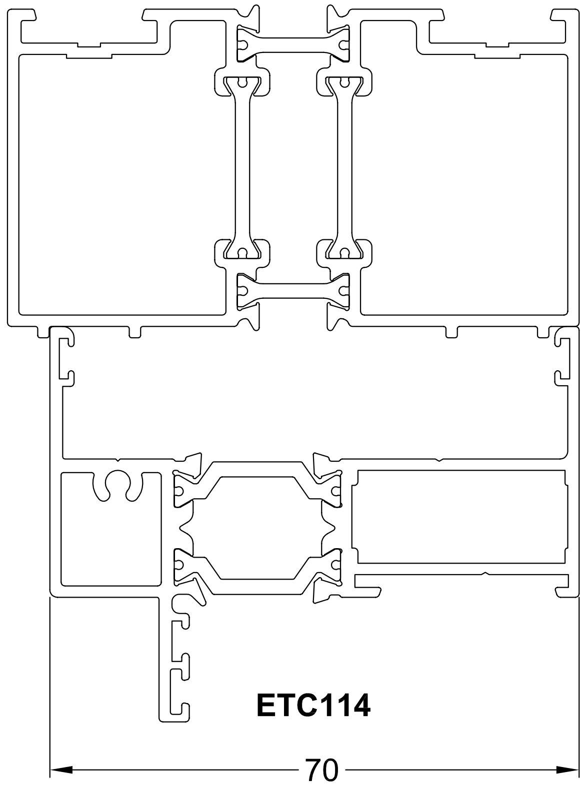
Note

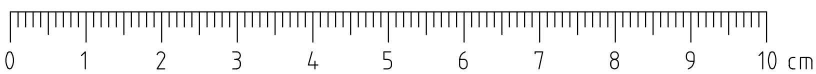
Remove internal vertical strips after rolling

ETC515

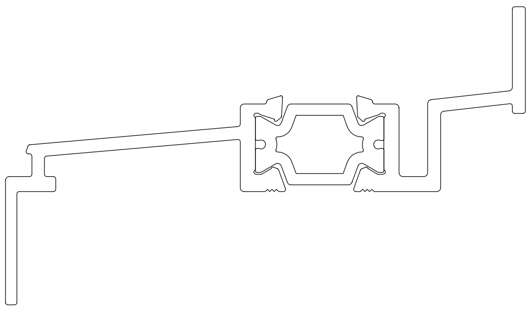


ETC515

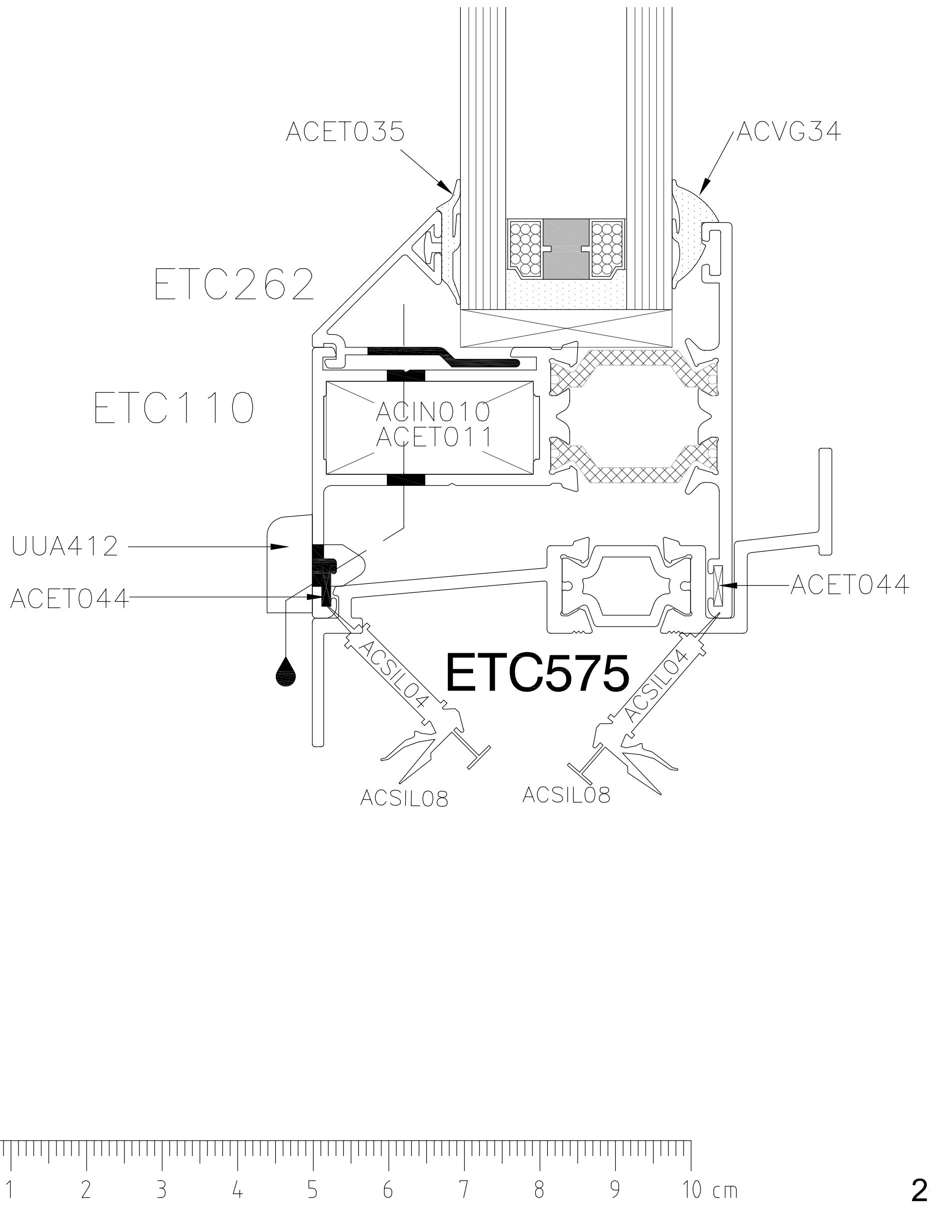




16th November 2007



ETC575			
ALITHERM 55 SYSTEM CONDENSATION SILL - ETC110			
⬚	Ixx	Iyy	L
122mm	****	****	6500mm



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ALITHERM
WINDOW
MANUAL

Index

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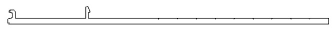
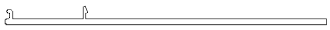
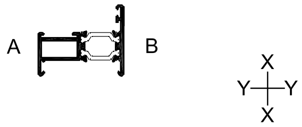
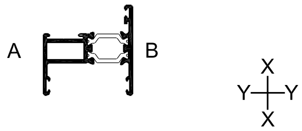
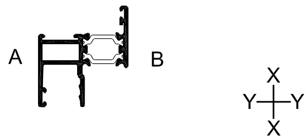
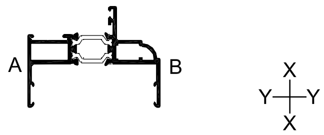
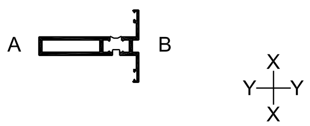
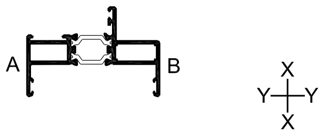
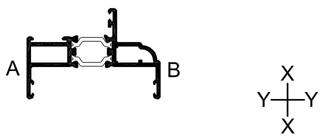
PROFILES

NUMBER	IMAGE	PAGE	PERIM. mM	MEC. mm	Ix(cm4) / wx(cm3)	Iy(cm4) / wy(cm3)	LENGTH	PACK QTY	MF	SA	WP	HP	KL	MI
ECZ52	 FIXING LUG (55) USE WITH ETC110		373	-------	-------	-------	3	1	X					
ECZ53	 FIXING LUG (47) USE WITH ETC010		373	-------	-------	-------	3	1	X					
ETC010		15	238	70	7.9 ------- 3.0	1.9 ------- 0.8	6.5	1	X	X	X	X	X	X
ETC012		15	279	86	9.5 -------- 3.7	3.2 -------- 1.4	6.5	1	X	X	X	X	X	X
ETC014		15	297	89	8.9 -------- 3.6	4.6 -------- 1.8	6.5	1	X	X	X	X	X	X
ETC015		16	347	132	22.3 ------- 6.3	4.6 ------- 1.8	6.5	1	X	X	X	X	X	X
ETC16		31	259	127	8.9 ------- 2.7	1.2 ------- 0.6	5	1	X	X	X	X	X	
ETC018		16	325	125	21.1 -------- 5.6	3.4 -------- 1.4	6.5	1	X	X	X	X	X	X
ETC019		17	321	122	20.2 -------- 5.8	3.4 -------- 1.4	6.5	1	X	X	X	X	X	X

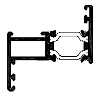
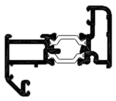
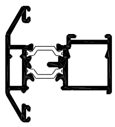
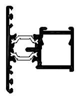
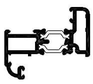
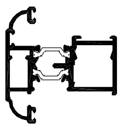
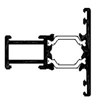
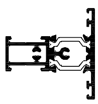
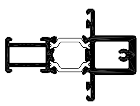
MF = MILL FINISH
SA = ANODISED
WP = WHITE
HP = SPECIAL COLOR
KL = BLACK
MI = DUAL COLOUR

A = OUTSIDE
B = INSIDE

ALITHERM

smart SYSTEMS

PROFILES

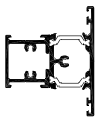
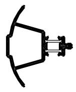
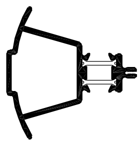
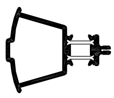
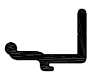
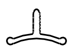
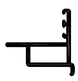
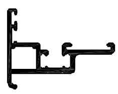
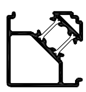
NUMBER	IMAGE	PAGE	PERIM. mM	MEC. mm	Ix(cm4) wx(cm3)	Iy(cm4) wy(cm3)	LENGTH	PACK QTY	MF	SA	WP	HP	KL	MI
ETC020	A  B	20	247	76	8.7 ------- 3.6	2.6 ------- 1.0	6.5	1	X	X	X	X	X	X
ETC022	A  B	20	295	95	14.3 -------- 4.7	4.6 -------- 1.9	6.5	1	X	X	X	X	X	X
ETC023	A  B	21	347	108	15.4 -------- 4.7	8.5 ------ 2.8	6.5	1	X	X	X	X	X	X
ETC 024N	A  B	21	307	103	10.8 -------- 3.8	6.6 -------- 2.2	6.5	1	X	X	X	X	X	X
ETC025	A  B	22	294	87	13.7 -------- 4.8	4.3 --------- 1.9	6.5	1	X	X	X	X	X	X
ETC026	A  B	22	380	121	17.9 ------- 5.2	9.5 ------- 3.1	6.5	1	X	X	X	X	X	X
ETC030	A  B	23	257	59	8.0 ------- 2.8	2.5 ------- 1.0	6.5	1	X	X	X	X	X	X
ETC 031N	A  B REPLACES ETC031	24	257	59	8.5 ------- 3.0	2.8 ------- 1.2	6.5	1	X	X	X	X	X	X
ETC032	A  B	25	300	131	20.8 -------- 5.0	3.8 --------- 1.6	6.5	1	X	X	X	X	X	X

A = OUTSIDE
B = INSIDE

MF = MILL FINISH
SA = ANODISED
WP = WHITE
HP = SPECIAL COLOR
KL = BLACK
MI = DUAL COLOUR

1/2/07

PROFILES

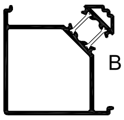
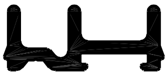
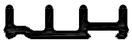
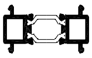
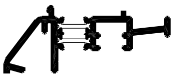
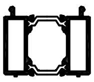
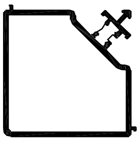
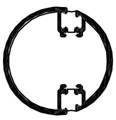
NUMBER	IMAGE	PAGE	PERIM. mM	MEC. mm	Ix(cm4) / wx(cm3)	Iy(cm4) / wy(cm3)	LENGTH	PACK QTY	MF	SA	WP	HP	KL	MI
ETC033	A  B NEW PROFILE - CHECK AVAILABILITY X Y Y X	25	278	102	10.6 ------- 3.9	6 ------- 2.1	6.5	1	X	X	X	X	X	X
ETC040	A  B X Y Y X	35	312	103	22.7 --------- 5.6	18.2 -------- 4.2	6.5	1	X	X	X	X	X	
ETC041	A  B X Y Y X	35	273	83	22.0 -------- 5.6	12.3 --------- 3.5	6.5	1	X	X	X	X	X	
ETC042	A  B X Y Y X	35	241	67	20.6 -------- 5.4	9.2 -------- 3.3	6.5	1	X	X	X	X	X	
ETC043		36	78				4		X					
ETC044		36	48	22			4	1	X	X	X	X	X	
ETC045	 B X Y Y X	45	163	44			6.5	1	X	X	X	X	X	
ETC046	A  X Y Y X	45	237	44			6.5	1	X	X	X	X	X	
ETC047	A  B X Y Y X	37	256	94	11.7 -------- 4.7	11.7 -------- 4.8		1	X	X	X	X	X	

MF = MILL FINISH
SA = ANODISED
WP = WHITE
HP = SPECIAL COLOR
KL = BLACK
MI = DUAL COLOUR

A = OUTSIDE
B = INSIDE

ALITHERM

PROFILES

NUMBER	IMAGE	PAGE	PERIM. mM	MEC. mm	Ix(cm4) / wx(cm3)	Iy(cm4) / wy(cm3)	LENGTH	PACK QTY	MF	SA	WP	HP	KL	MI
ETC048	A  B	37	347	140	42.6 / 5.9	42.6 / 5.9	6.5	1	X	X	X	X	X	
ETC051		46					4	1	X					
ETC052		46					4	1	X					
ETC053	A  B	31	179	32	6.9 / 2.9	1.1 / 0.8	6.5	1	X	X	X	X	X	X
ETC057	A  B	40	375	40			6.5	1	X	X	X	X	X	X
ETC058	A  B	31	191	33	9.5 / 4.0	4.9 / 2.4	6.5	1	X	X	X	X	X	X
ETC60	A 	38	390	140	51.5 / 13.9	51.7 / 14.0	5	1	X	X	X	X	X	
ETC63	A  B	40	279	24			5	1	X	X	X	X	X	
ETC69	A  B	39	269	179	19.4 / 6.2	21.6 / 7.2	5	1	X	X	X	X	X	

A = OUTSIDE
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MF = MILL FINISH
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WP = WHITE
HP = SPECIAL COLOR
KL = BLACK
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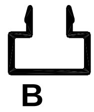
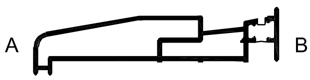
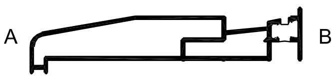
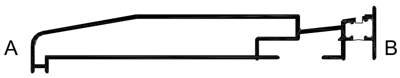
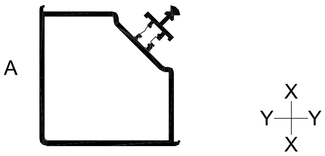
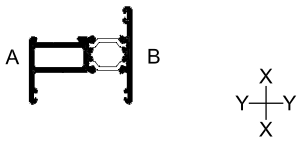
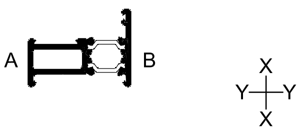
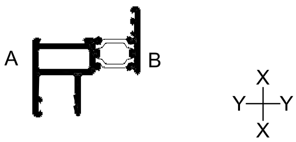
PROFILES

NUMBER	IMAGE	PAGE	PERIM. mM	MEC. mm	Ix(cm4) / wx(cm3)	Iy(cm4) / wy(cm3)	LENGTH	PACK QTY	MF	SA	WP	HP	KL	MI
ETC074		41	130				4	1	X	X	X	X	X	
ETC75		41	416	150			5	1	X	X	X	X	X	X
ETC76		42	443	166			5	1	X	X	X	X	X	X
ETC77		43	524	206			5	1	X	X	X	X	X	X
ETC78		41	309	102			5	1	X	X	X	X	X	X
ETC80		38	410	160	64.5 ------- 16.5	64.8 ------- 16.6	5.0	1	X	X	X	X	X	
ETC110		18	307	94	15.0 -------- 4.8	4.4 -------- 1.6	6.5	1	X	X	X	X	X	X
ETC112		18	258	74	12.5 ------- 4.0	2.6 ------- 1.0	6.5	1	X	X	X	X	X	X
ETC113		18	330	84	14.1 ------- 4.9	6.0 ------- 2.1	6.5	1	X	X	X	X	X	X

MF = MILL FINISH
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WP = WHITE
HP = SPECIAL COLOR
KL = BLACK
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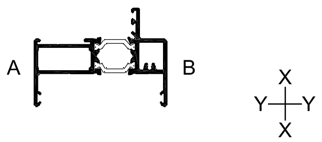
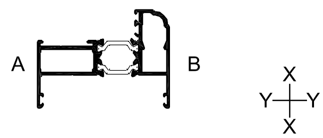
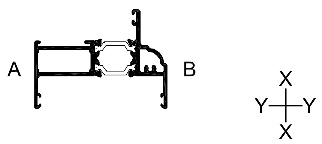
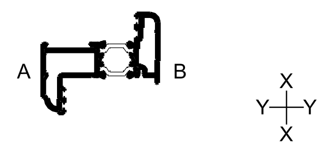
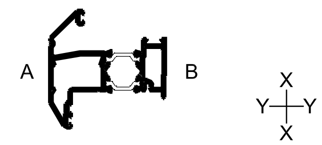
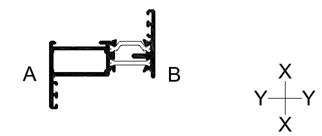
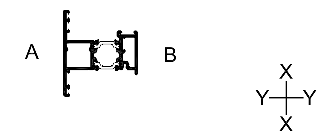
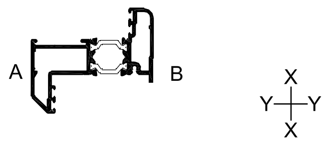
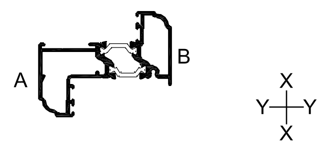
A = OUTSIDE
B = INSIDE

ALITHERM

smart SYSTEMS

PROFILES

NUMBER	IMAGE	PAGE	PERIM. mM	MEC. mm	Ix(cm4) / wx(cm3)	Iy(cm4) / wy(cm3)	LENGTH	PACK QTY	MF	SA	WP	HP	KL	MI
ETC114		19	343	113	24.8 ------- 6.5	4.8 ------- 1.8	6.5	1	X	X	X	X	X	X
ETC116		19	340	108	26.1 ------- 6.6	6.4 ------- 2.5	6.5	1	X	X	X	X	X	X
ETC119		19	331	86	23.4 ------- 6.3	5.6 ------- 1.8	6.5	1	X	X	X	X	X	X
ETC120		26	306	104	22.2 ------- 6.6	7.1 ------- 2.4	6.5	1	X	X	X	X	X	X
ETC121		26	360	120	23.6 ------- 6.7	10.4 ------- 3.1	6.5	1	X	X	X	X	X	X
ETC122		27	290	83	14.1 ------- 4.9	3.6 ------- 1.3	6.5	1	X	X	X	X	X	X
ETC124		26	332	112	18.5 ------- 5.9	7.9 ------- 2.4	6.5	1	X	X	X	X	X	X
ETC125		27	309	103	22.1 ------- 6.6	7.1 ------- 2.6	6.5	1	X	X	X	X	X	X
ETC126		27	323	115	25.5 ------- 7.1	8.3 ------- 3.1	6.5	1	X	X	X	X	X	X

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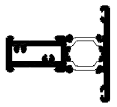
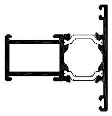
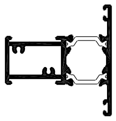
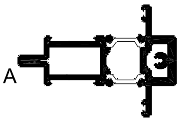
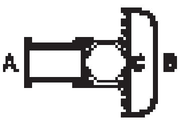
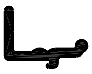
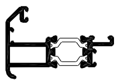
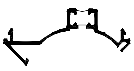
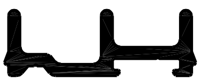
PROFILES

NUMBER	IMAGE	PAGE	PERIM. mM	MEC. mm	Ix(cm4) / wx(cm3)	Iy(cm4) / wy(cm3)	LENGTH	PACK QTY	MF	SA	WP	HP	KL	MI
ETC130	A  B X Y-Y X	28	281	84	13.4 ------- 4.1	3.4 ------- 1.3	6.5	1	X	X	X	X	X	X
ETC131	A  B X Y-Y X	28	292	95	13.8 ------- 4.1	5.3 ------- 1.8	6.5	1	X	X	X	X	X	X
ETC132	A  B X Y-Y X	28	293	93	15.3 -------- 6.5	5.6 --------- 1.9	6.5	1	X	X	X	X	X	X
ETC135	A  B X Y-Y X	29	346	152	39.4 ------- 11.2	6.6 ------- 2.3	6.5	1	X	X	X	X	X	X
ETC136	A  B X Y-Y X	29	331	121	24.5 ----- 5.7	10.3 ------- 3.5	6.5	1	X	X	X	X	X	X
ETC143		36	78				4	1	X					
ETC146	A  B X Y-Y X	29	269	52	9.2 -------- 2.6	2.2 -------- 1.3	6.5	1	X	X	X	X	X	
ETC150	A  B X Y-Y X	39	287	31			6.5	1	X	X	X	X	X	
ETC151		46					4	1	X					

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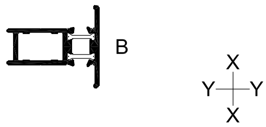
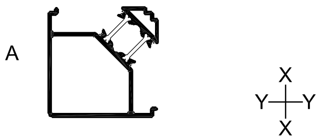
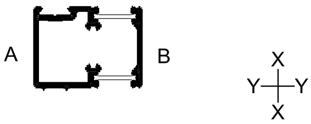
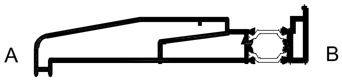
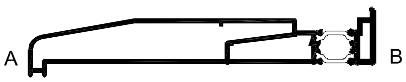
ALITHERM

PROFILES

NUMBER	IMAGE	PAGE	PERIM. mM	MEC. mm	Ix(cm4) / wx(cm3)	Iy(cm4) / wy(cm3)	LENGTH	PACK QTY	MF	SA	WP	HP	KL	MI
ETC153		33	214	51	8.8 ------- 3.0	2.7 ------- 1.2	6.5	1	X	X	X	X	X	X
ETC155		37	290	111	19.9 -------- 6.8	19.9 -------- 6.9	6.5	1	X	X	X	X	X	
ETC156		29	238	93			6.5	1	X	X	X	X	X	X
ETC157		40	391	131			6.5	1	X	X	X	X	X	X
ETC158		40	471	171			6.5	1	X	X	X	X	X	X
ETC160		30	95	23			6.5	1	X	X	X	X	X	
ETC161		30	115	27			6.5	1	X	X	X	X	X	
ETC162		30	123	31			6.5	1	X	X	X	X	X	
ETC163		30	106	26			6.5	1						

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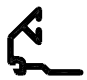
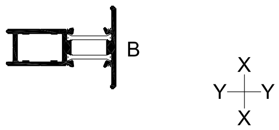
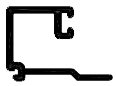
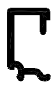
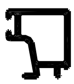
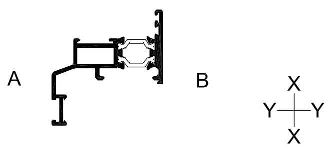
PROFILES

NUMBER	IMAGE	PAGE	PERIM. mM	MEC. mm	Ix(cm4) / wx(cm3)	Iy(cm4) / wy(cm3)	LENGTH	PACK QTY	MF	SA	WP	HP	KL	MI
ETC164		30	103	25			6.5	1						
ETC253		34	233	51	13.5 ------- 4.1	2.7 ------- 1.2	6.5	1	X	X	X	X	X	X
ETC262		30	131	31			6.5	1	X	X	X	X	X	
ETC263		30	161	55			6.5	1	X	X	X	X	X	
ETC264		30	74	24			4	1	X	X	X	X	X	
ETC265		30	152	37			6.5	1						
ETC266		30	90	28			6.5	1						
ETC267		30	90	35	-------	-------	6.5	1	X	X	X	X	X	X
ETC510		17	345	128	16.9 ------- 5.2	6.3 ------- 2.3	6.5	1	X	X	X	X	X	X

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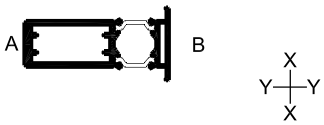
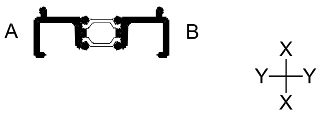
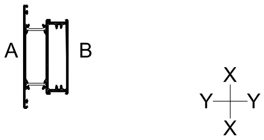
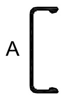
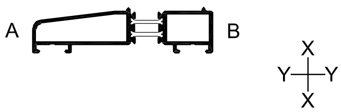
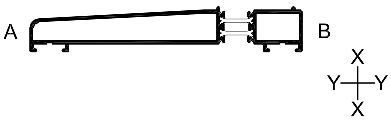
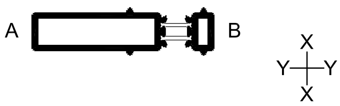
ALITHERM

NUMBER	IMAGE	PAGE	PERIM. mM	MEC. mm	Ix(cm4) wx(cm3)	Iy(cm4) wy(cm3)	LENGTH	PACK QTY	MF	SA	WP	HP	KL	MI
ETC517		31	240	162	39.6 ------- 9.8	5.3 ------- 2.7	6.5	1	X	X	X	X	X	X
ETC559		39	285	41			6.5	1	X	X	X	X	X	X
ETD030		23	397	203	21.6 -------- 8.7	57.3 -------- 10.5	6.5	1	X	X	X	X	X	X
ETD092		41	172	25	-------	-------	5	1	X	X	X	X	X	
IN052		33					6.5	1	X	X	X	X	X	X
IN054		33					6.5	1	X					
IN057		43	309	95			6.5	1	X	X	X	X	X	X
IN157		43	409	152			6.5	1	X	X	X	X	X	X
VL54		44	282	150	48.5 ------- 9.2	3.1 ------- 2.5	6.5	1	X	X	X	X	X	X

A = OUTSIDE
B = INSIDE

MF = MILL FINISH
SA = ANODISED
WP = WHITE
HP = SPECIAL COLOR
KL = BLACK
MI = DUAL COLOUR

PROFILES

NUMBER	IMAGE	PAGE	PERIM. mM	MEC. mm	Ix(cm4) / wx(cm3)	Iy(cm4) / wy(cm3)	LENGTH	PACK QTY	MF	SA	WP	HP	KL	MI
VL72	A 	44	101	54			6.5	1	X	X	X	X	X	
VL75		46					6.5	1	X					

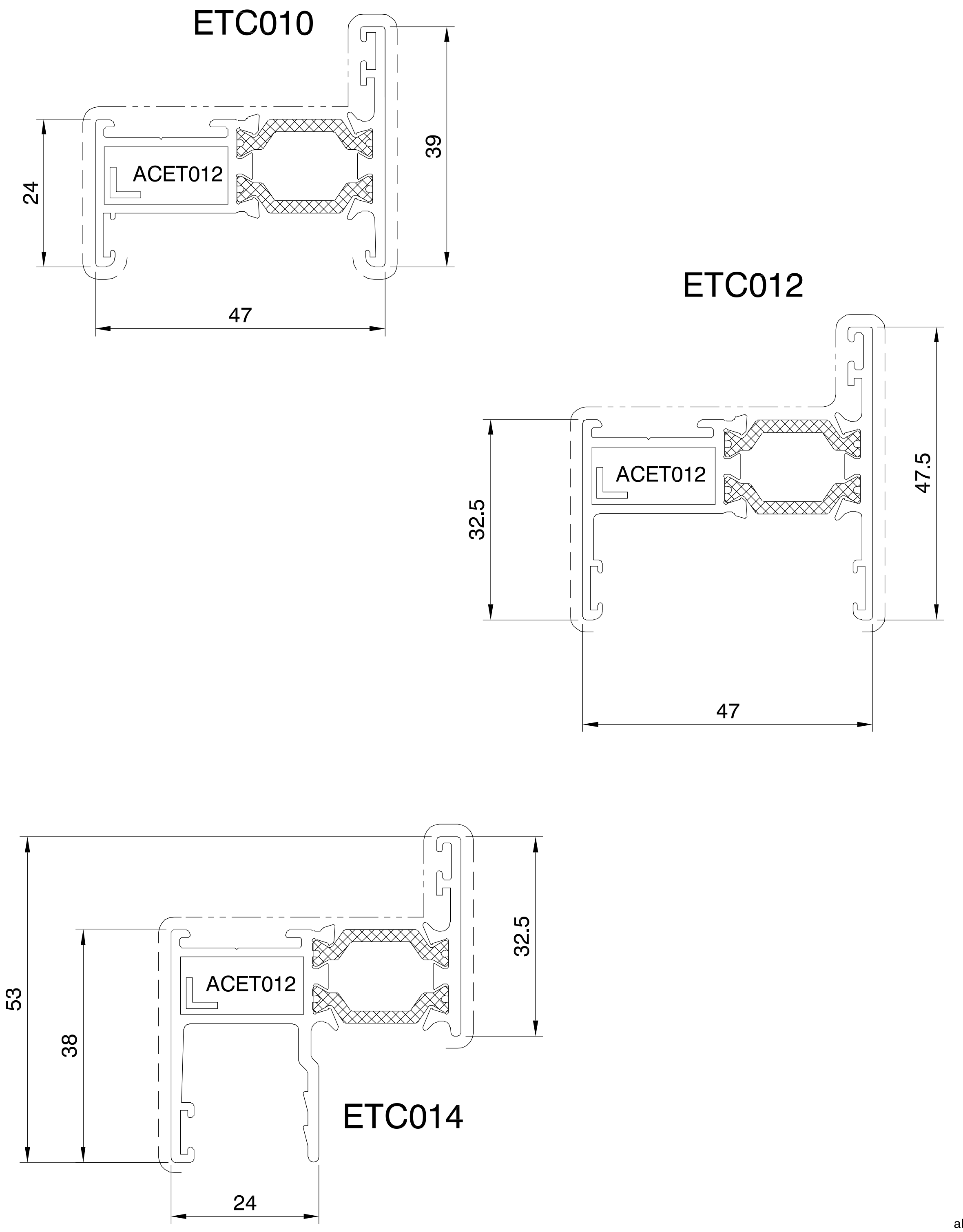
PROFILES

Primary visible sides

Secondary visible side ide

PROFILES

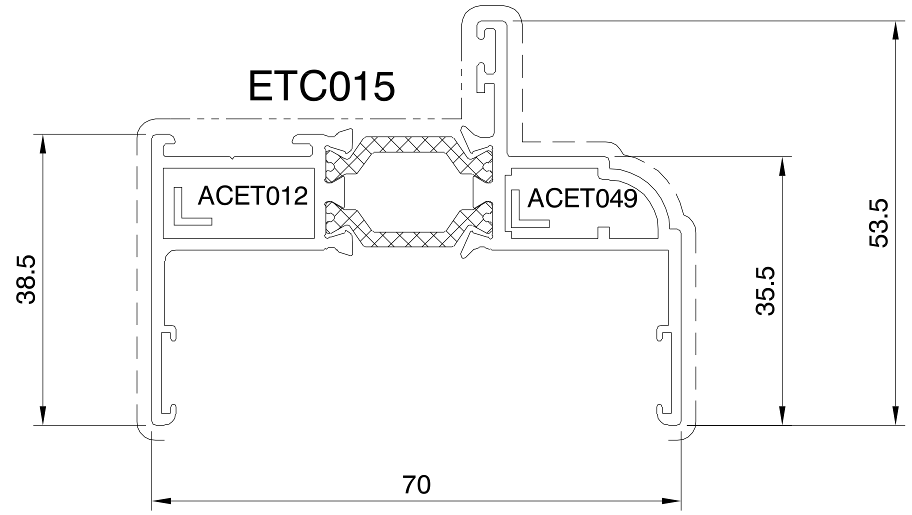
Primary visible side — Secondary visible side

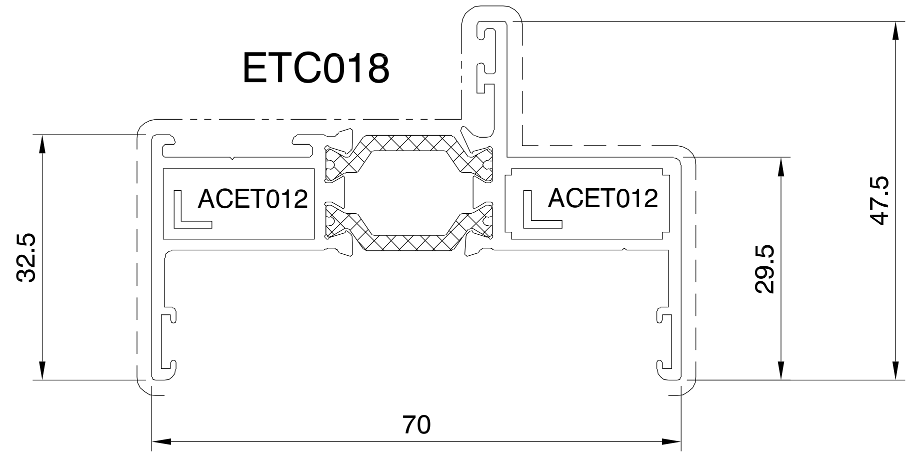


aETC-01-01

PROFILES

_ — — — — — _ **Primary visible side** — _ _ —— _ _ — **Secondary visible side**

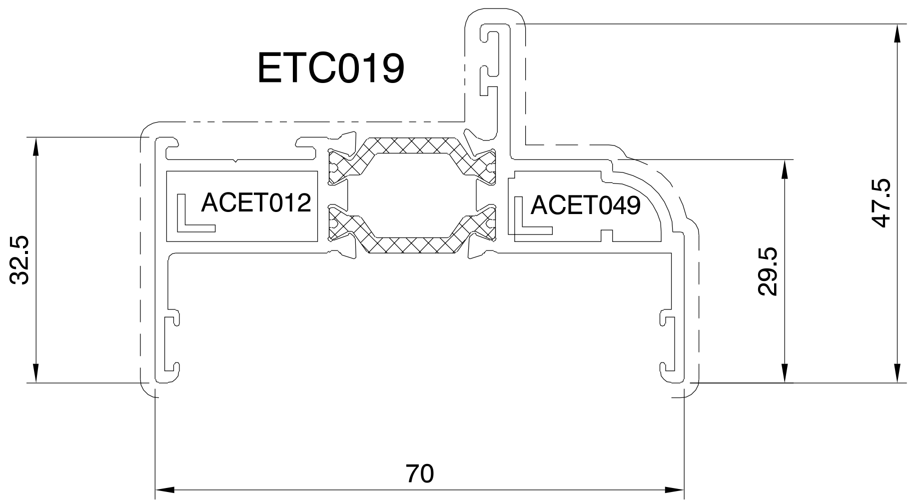


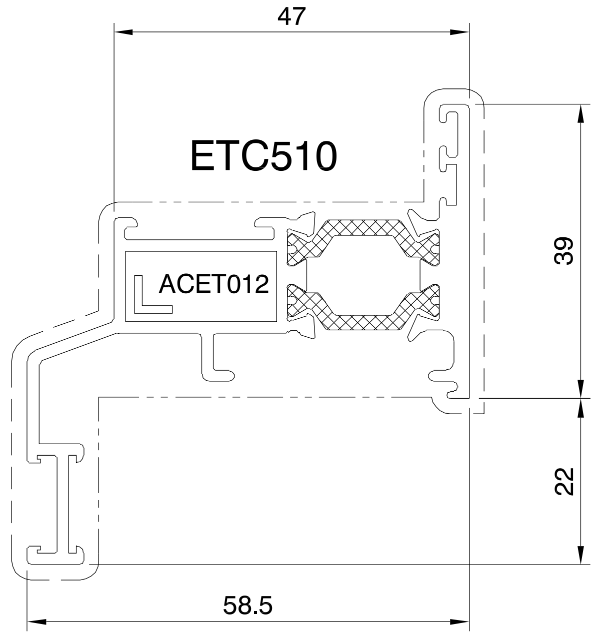


aETC-26-02

PROFILES

Primary visible side — Secondary visible side



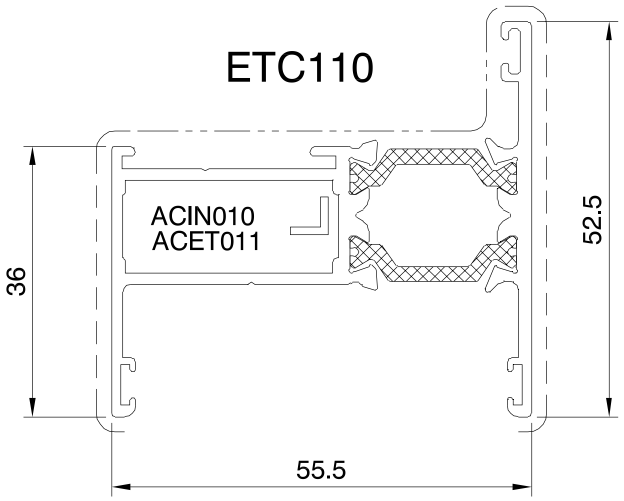


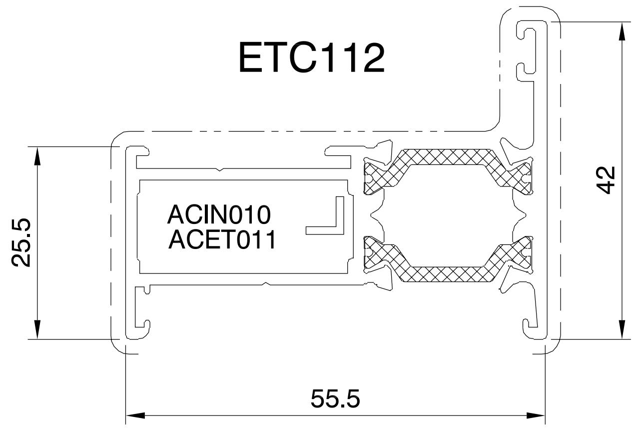
aETC-31-00

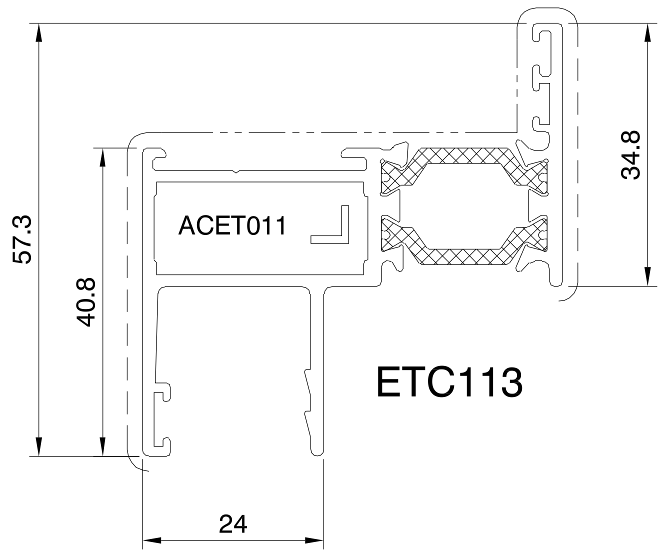
ALITHERM

PROFILES

Primary visible side — Secondary visible side



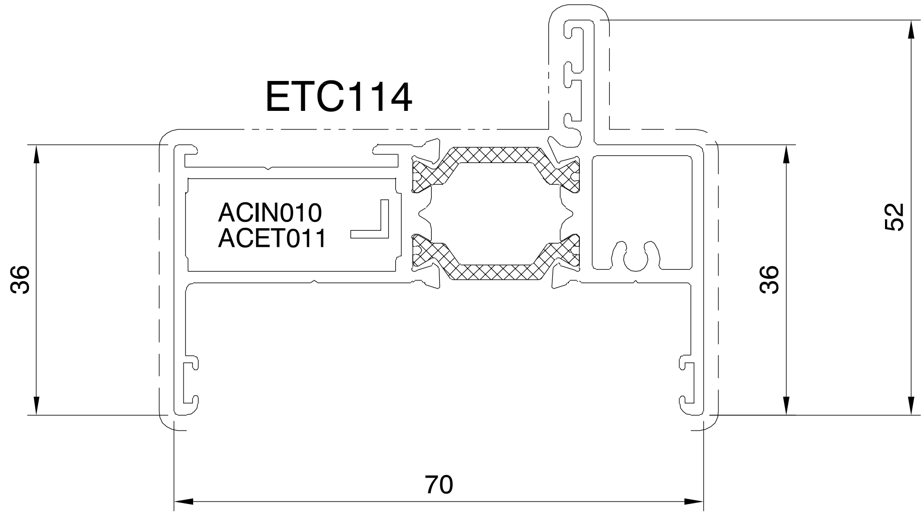


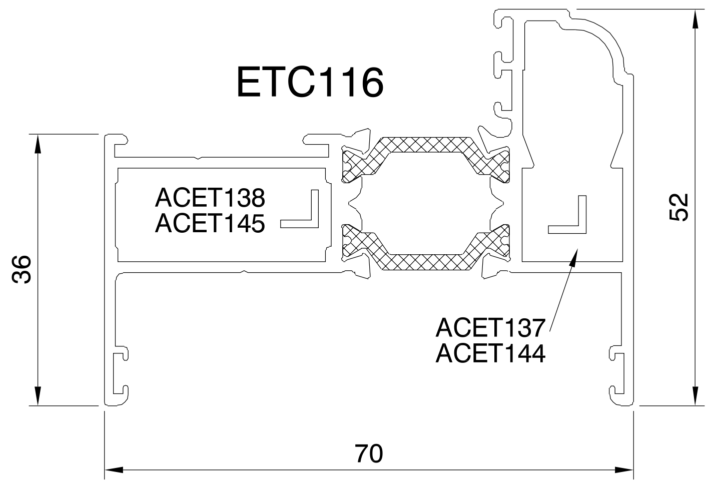


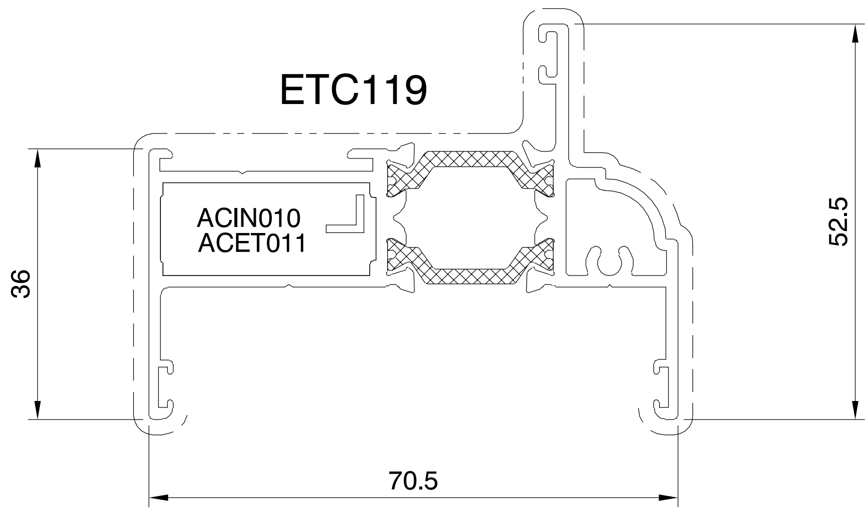
aETC-16-01

PROFILES

Primary visible side   Secondary visible side





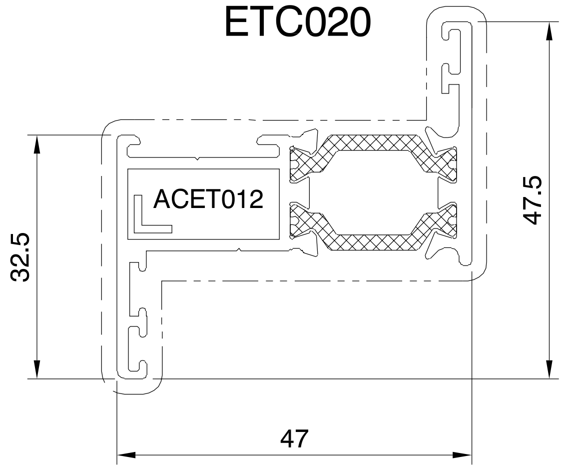


aETC-04-02

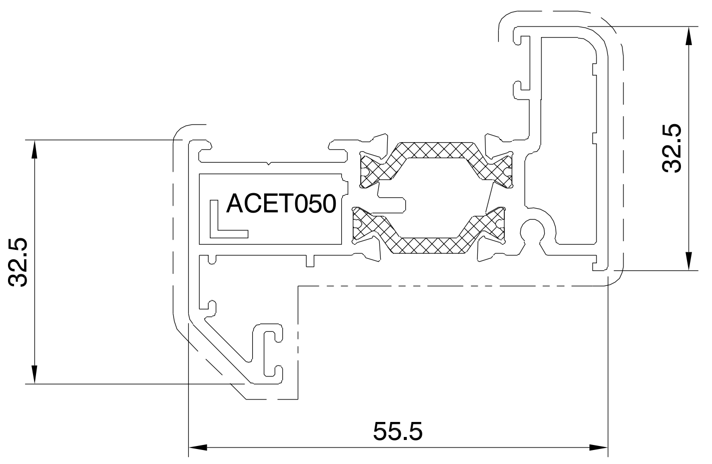
PROFILES

Primary visible side — Secondary visible side

ETC020



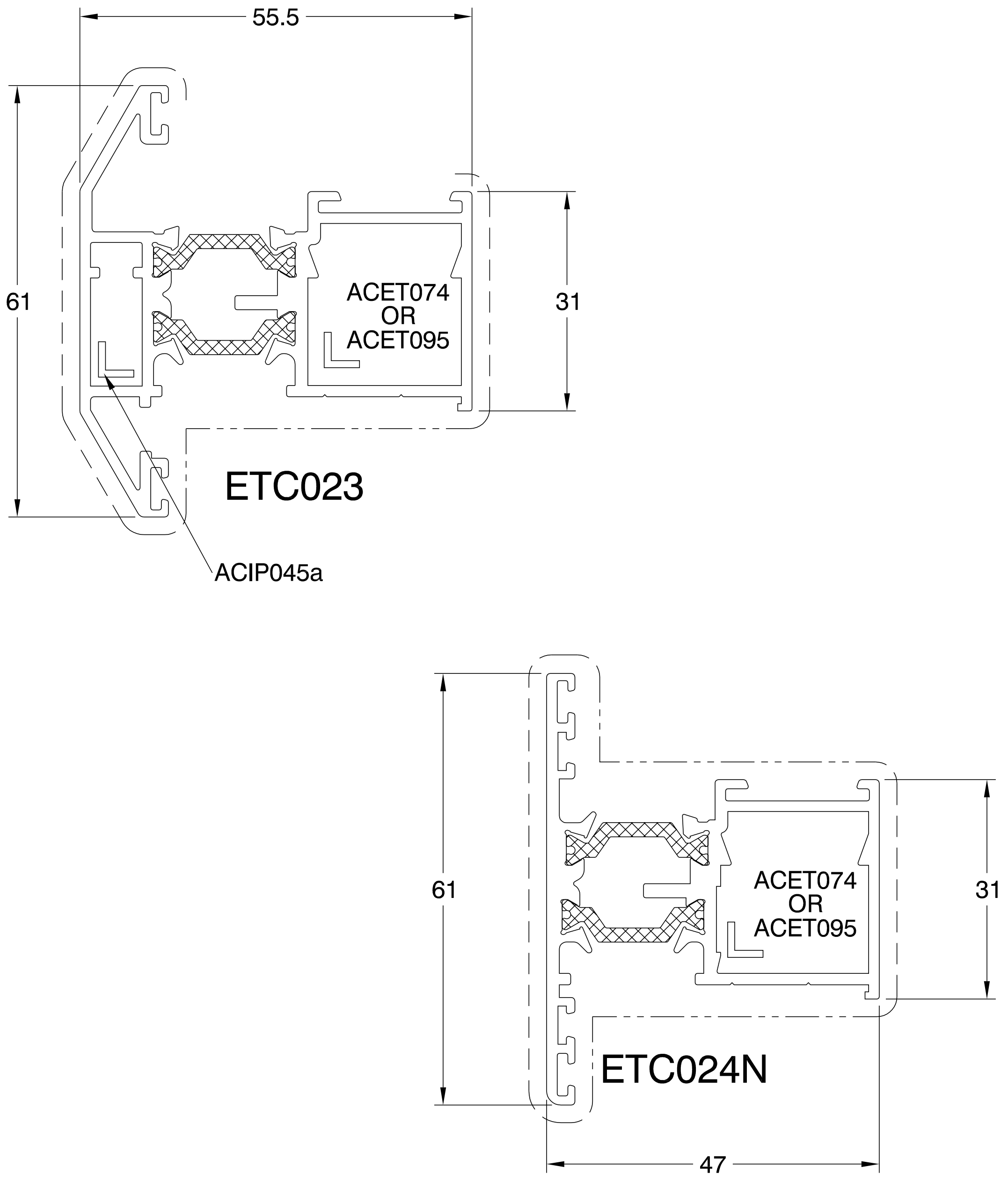
ETC022



aETC-03-01

PROFILES

_ _ _ _ _ _ _ Primary visible side — — — — — — — Secondary visible side

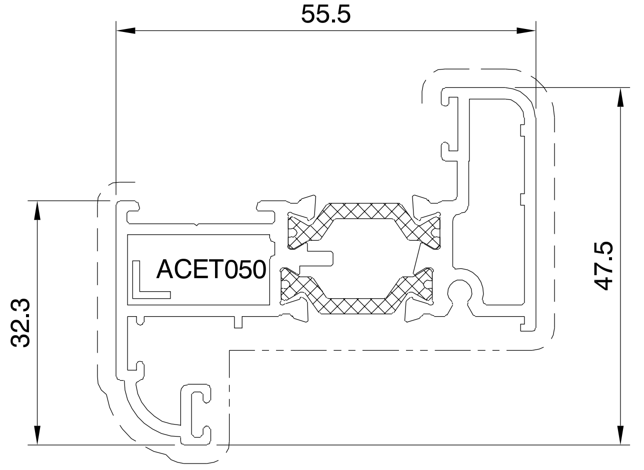


aETC-17-02

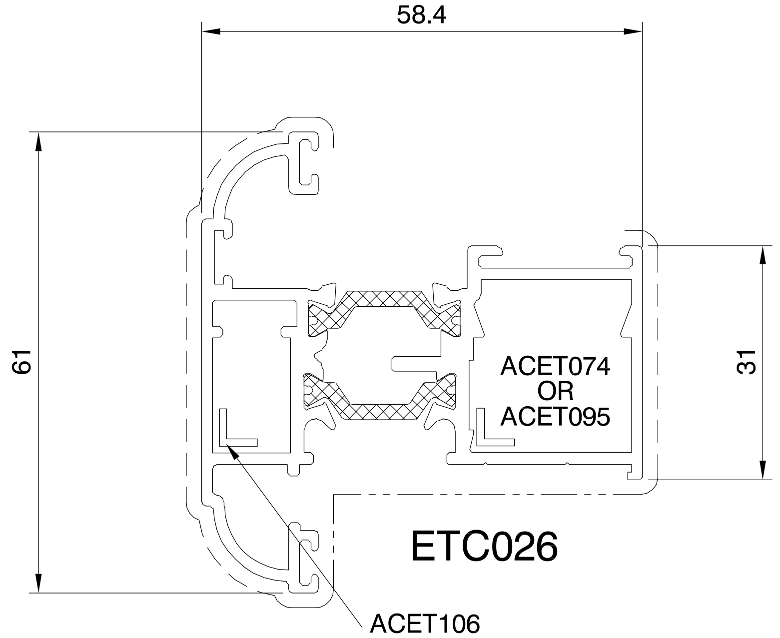
ALITHERM

PROFILES

Primary visible side — Secondary visible side



ETC025

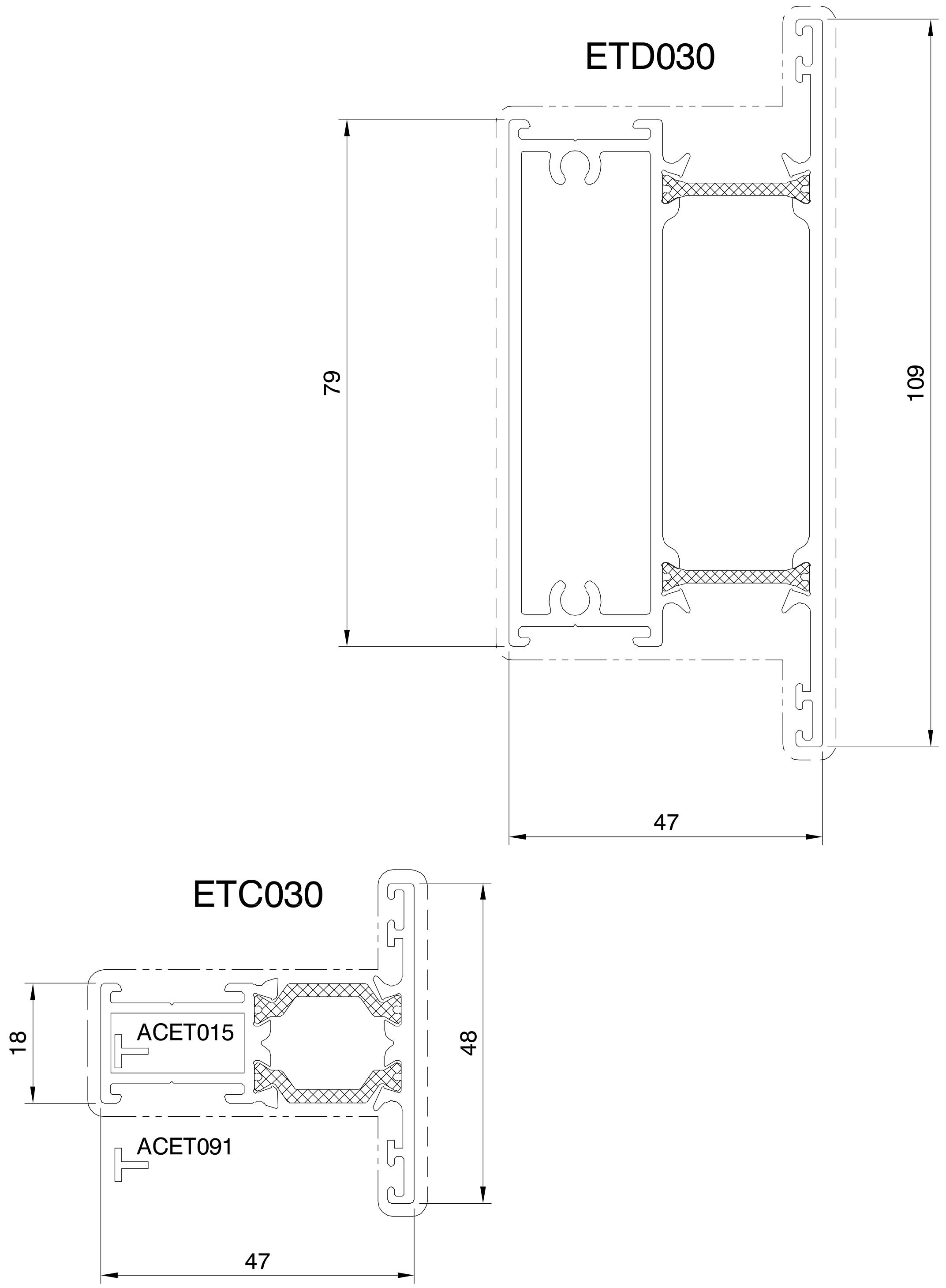


ETC026

aETC-30-01

PROFILES

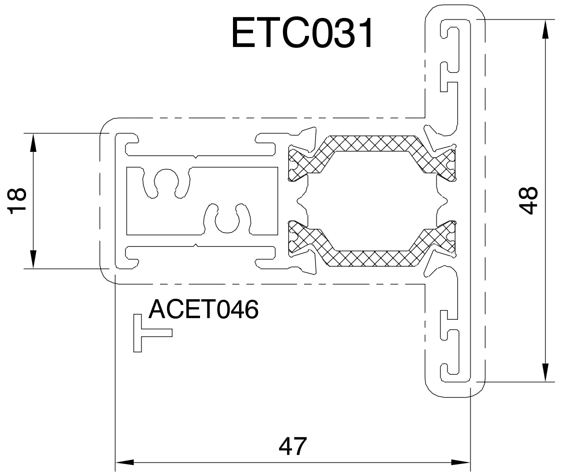
Primary visible side — Secondary visible side

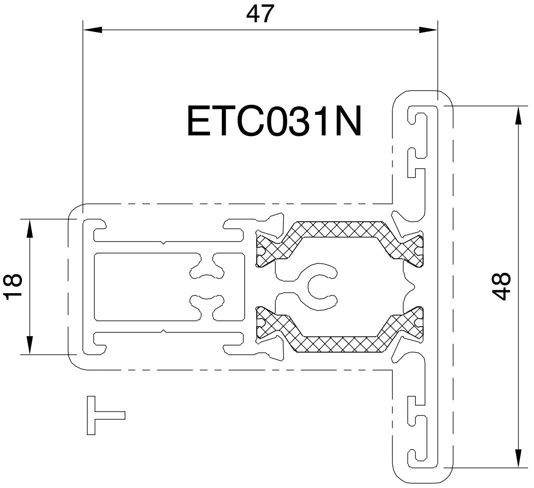


aETC-18-01

PROFILES

Primary visible side   Secondary visible side

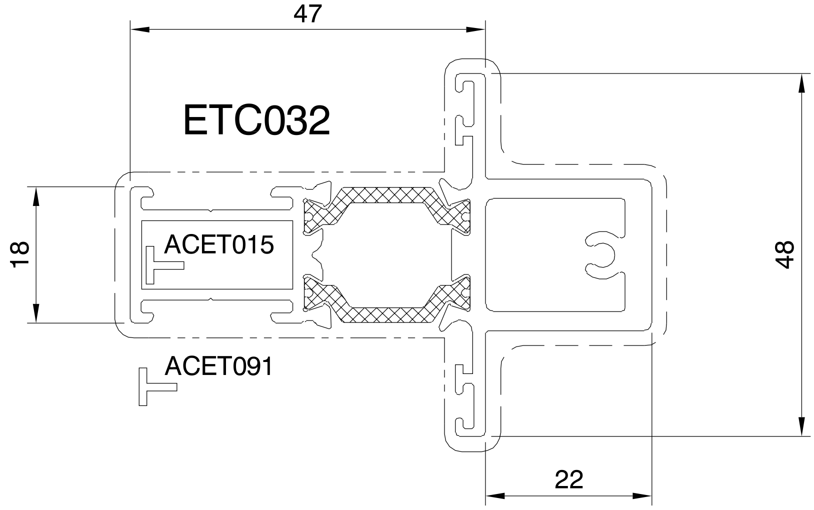


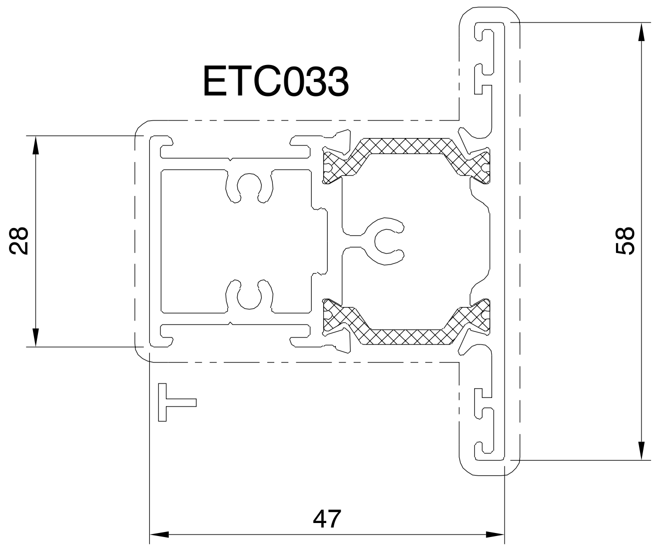


aETC-19-02

PROFILES

Primary visible side
Secondary visible side

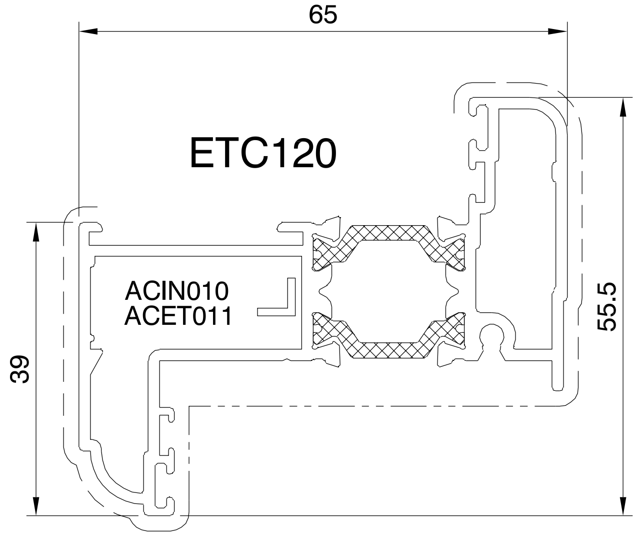


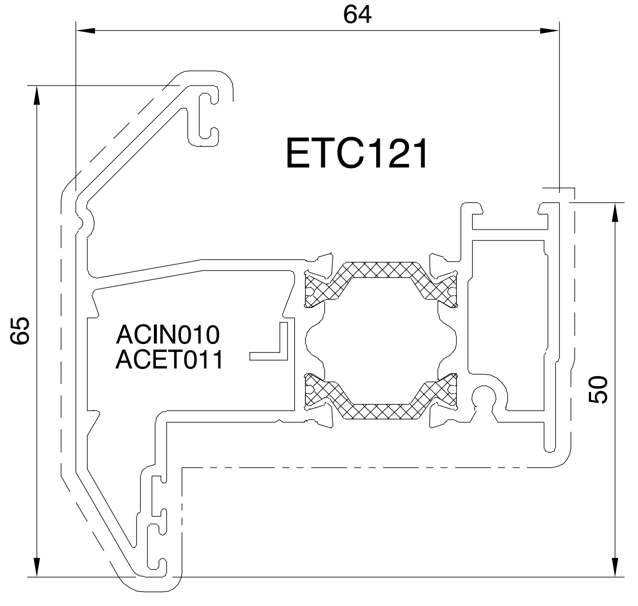


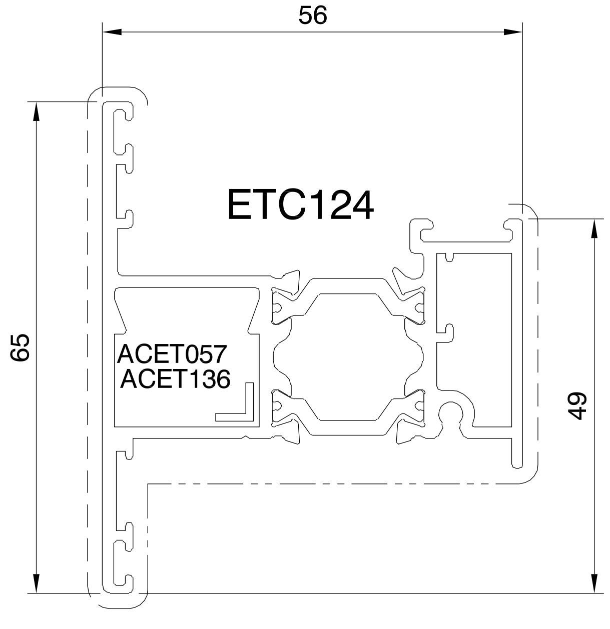
aETC-34-00

PROFILES

Primary visible side   Secondary visible side



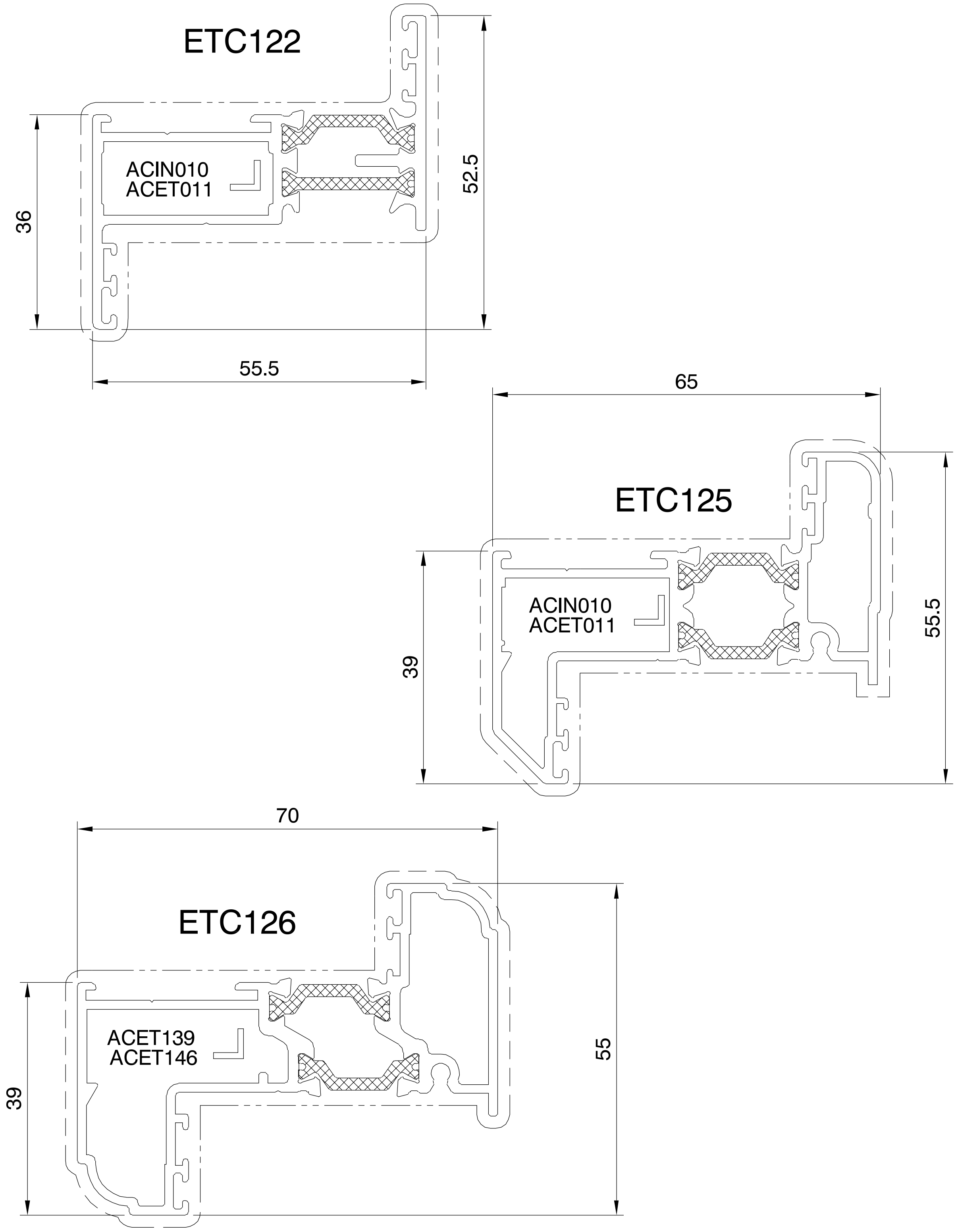




aETC-29-01

PROFILES

_ _ _ _ _ _ _ Primary visible side — — — — — — — Secondary visible side

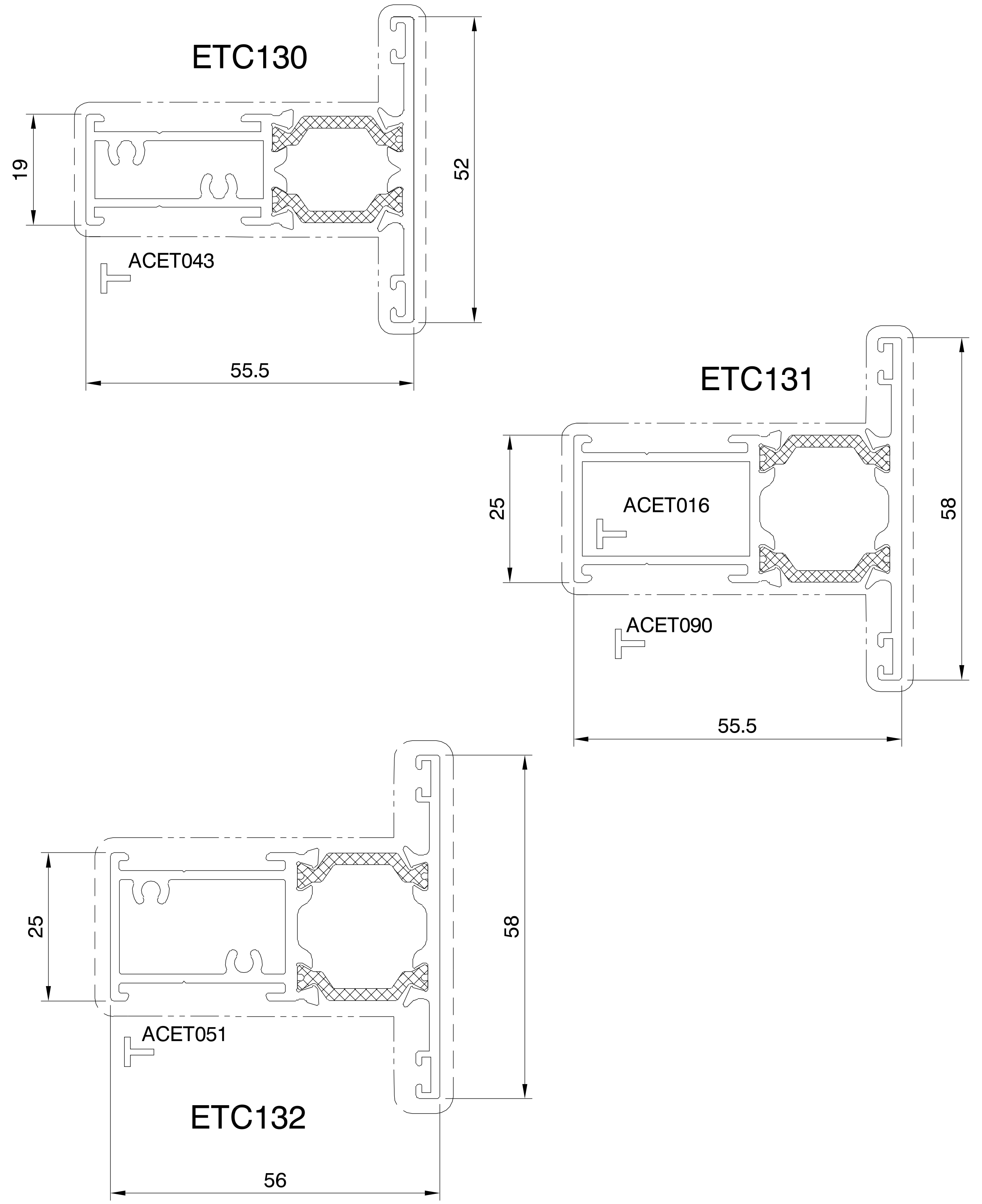


aETC-28-01

PROFILES

Primary visible side

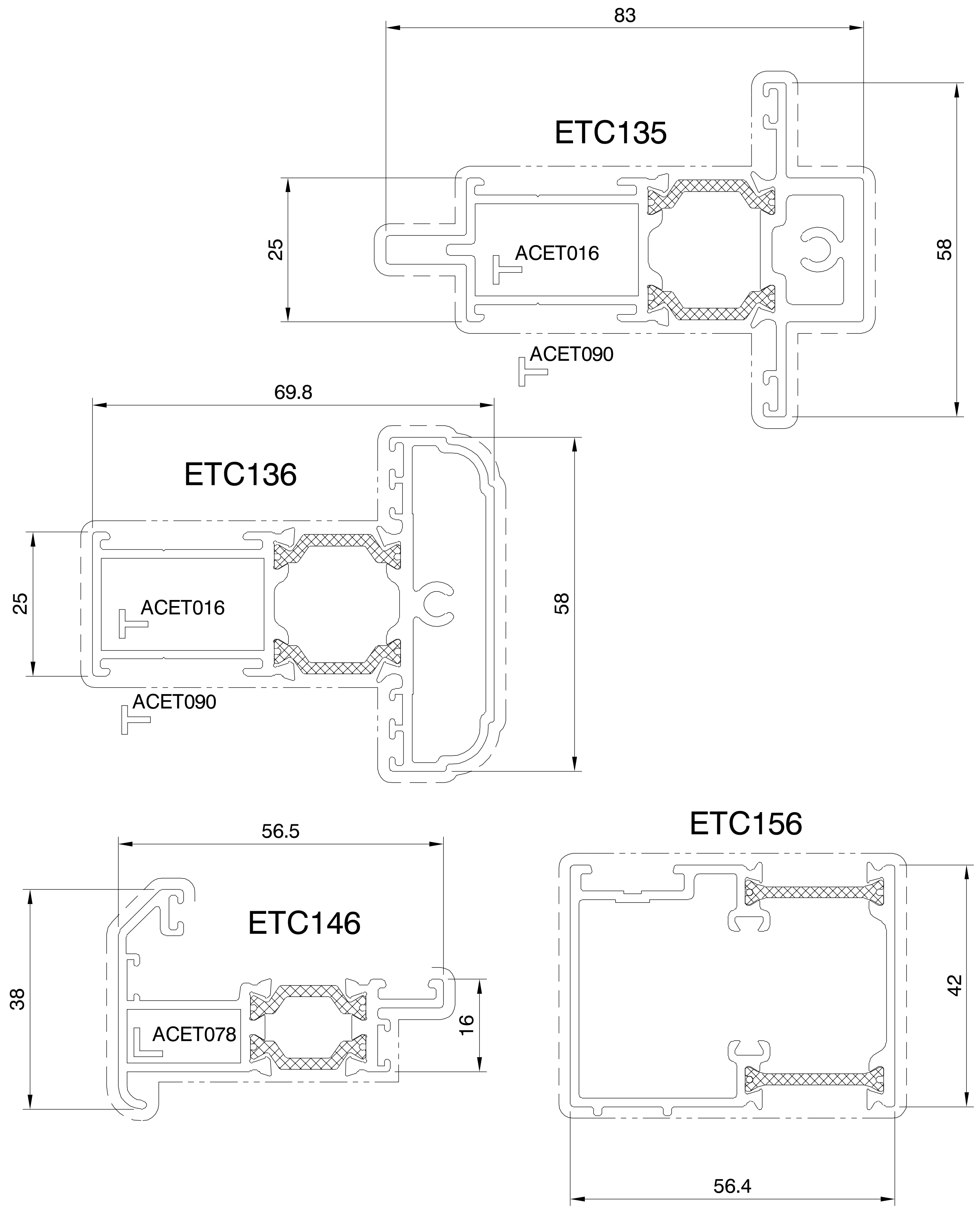
Secondary visible side



aETC-20-01

PROFILES

Primary visible side — Secondary visible side

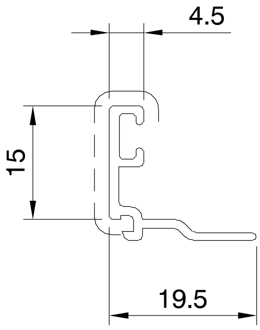


aETC-27-01

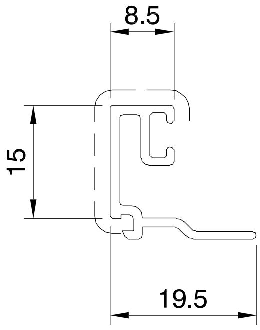
PROFILES

Primary visible side — Secondary visible side

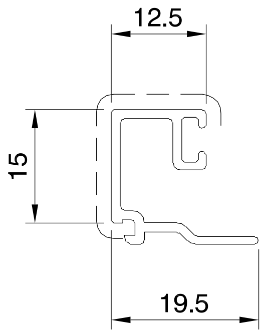
ETC160



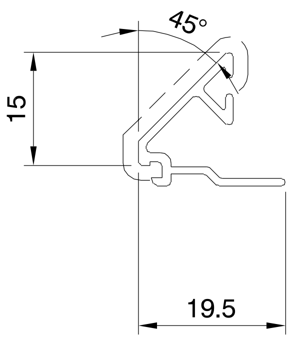
ETC161



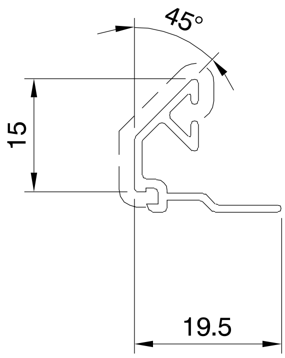
ETC162



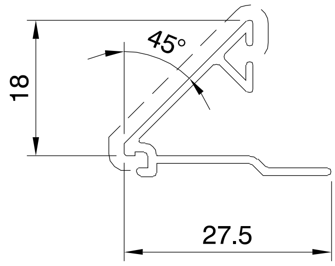
ETC163



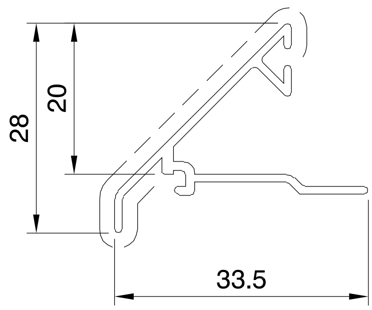
ETC164



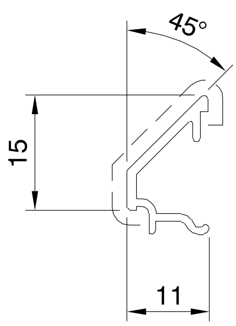
ETC262



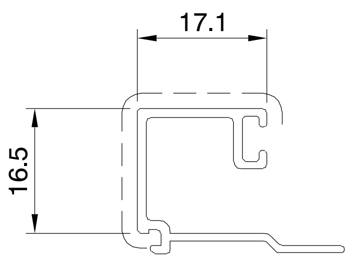
ETC263



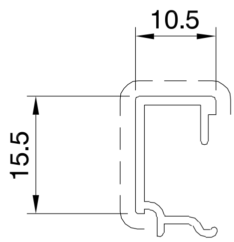
ETC264



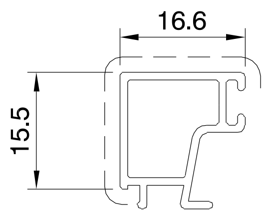
ETC265



ETC266



ETC267

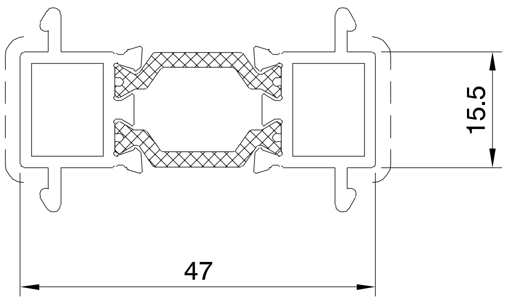


aETC-06-02

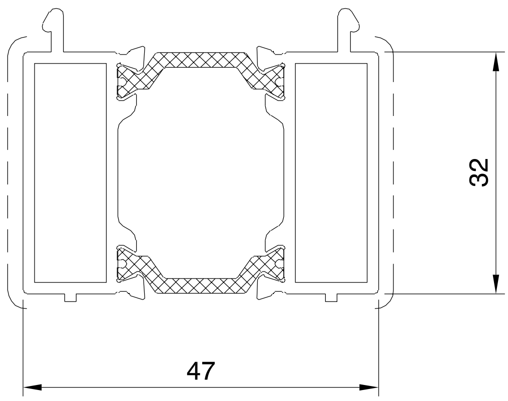
PROFILES

Primary visible side — Secondary visible side

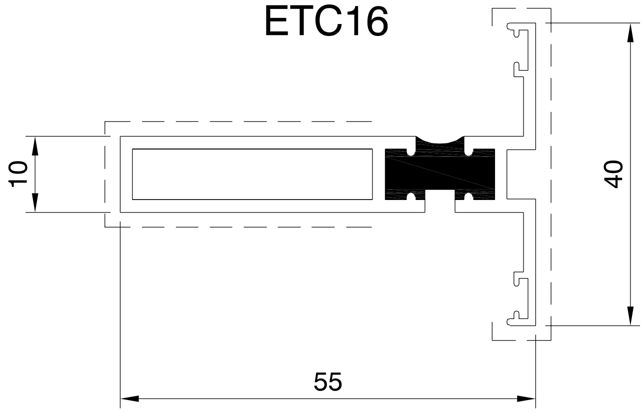
ETC053



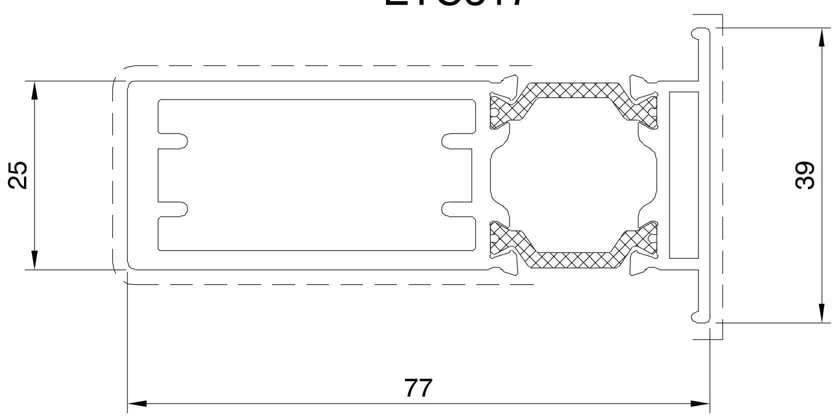
ETC058



ETC16



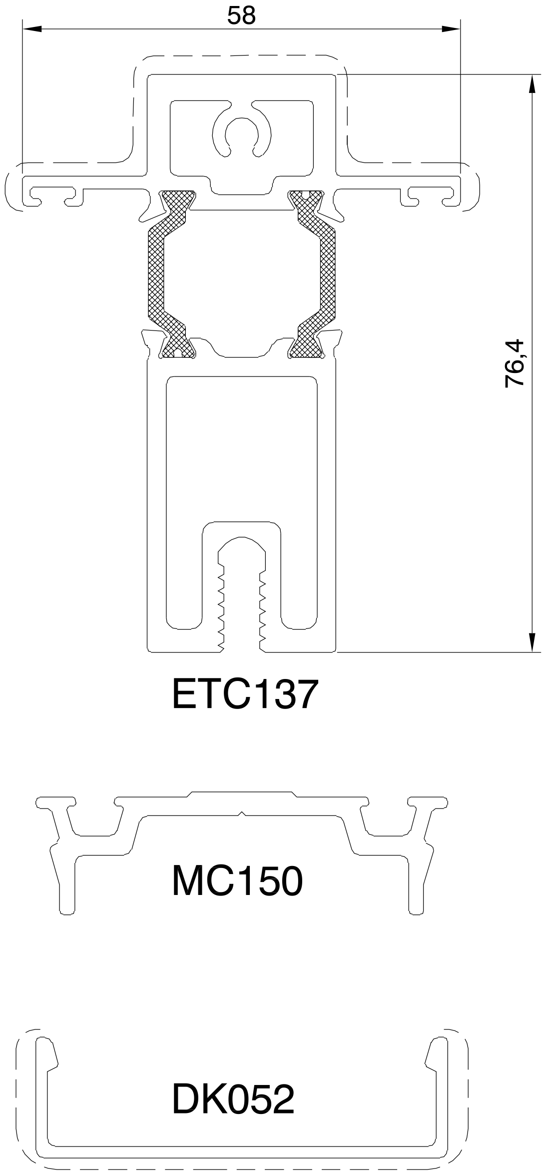
ETC517



aETC-07-01

PROFILES

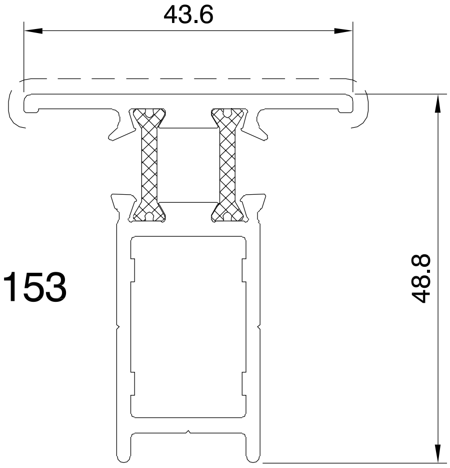
Primary visible side — Secondary visible side



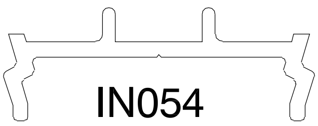
aETC-35-00

PROFILES

Primary visible side — Secondary visible side



ETC153



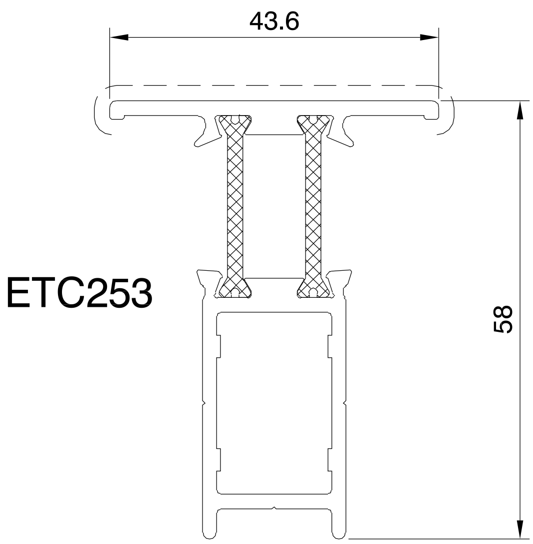
IN054

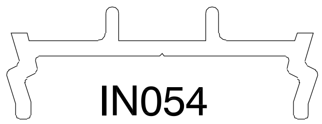
IN052

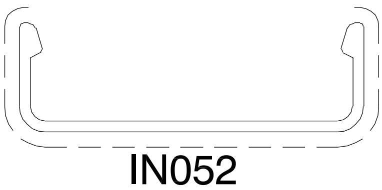
aETC-32-00

PROFILES

Primary visible side — Secondary visible side



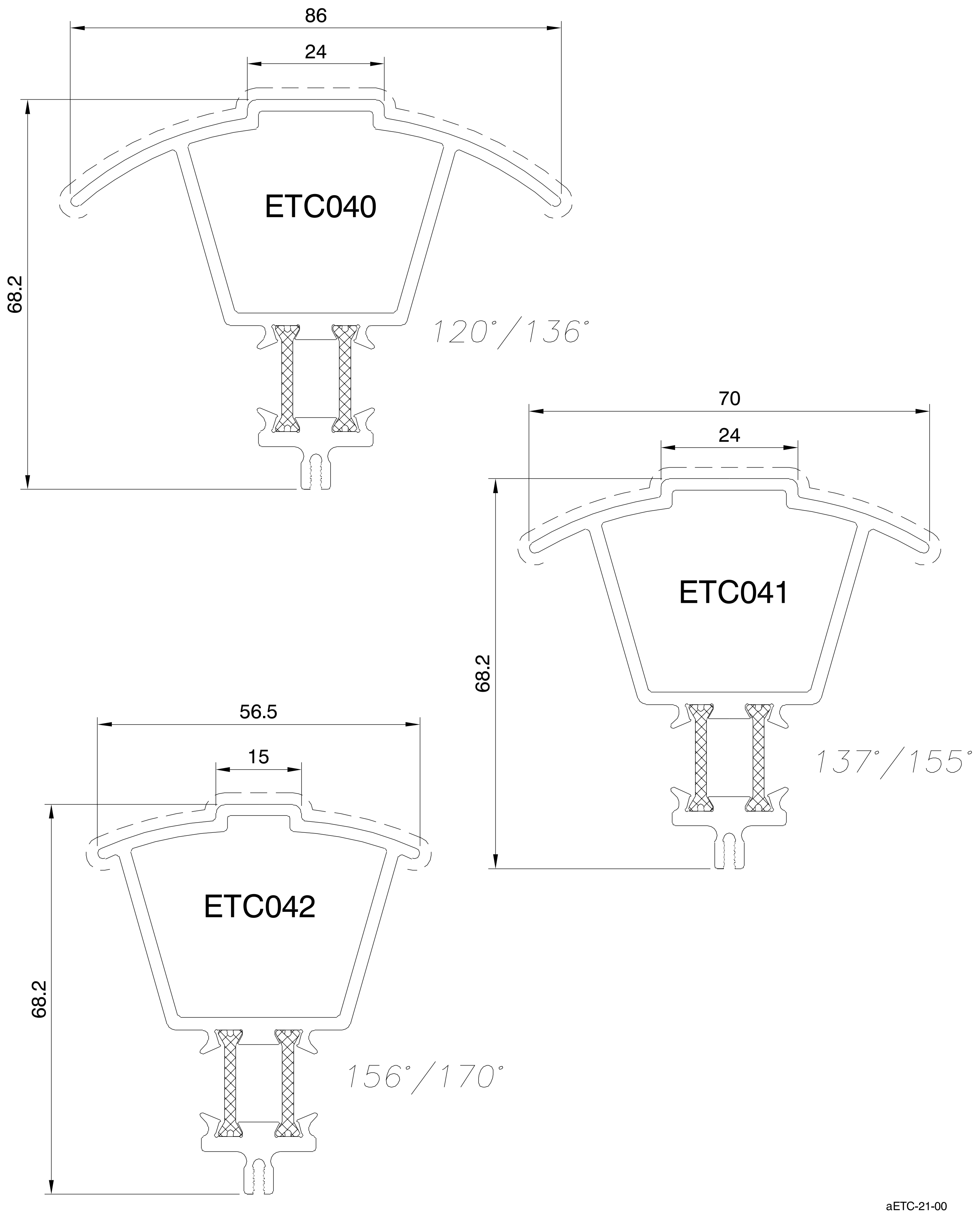




aETC-33-00

PROFILES

Primary visible side — Secondary visible side

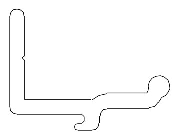


aETC-21-00

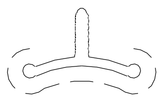
PROFILES

Primary visible side

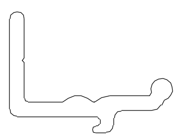
Secondary visible side



ETC043



ETC044

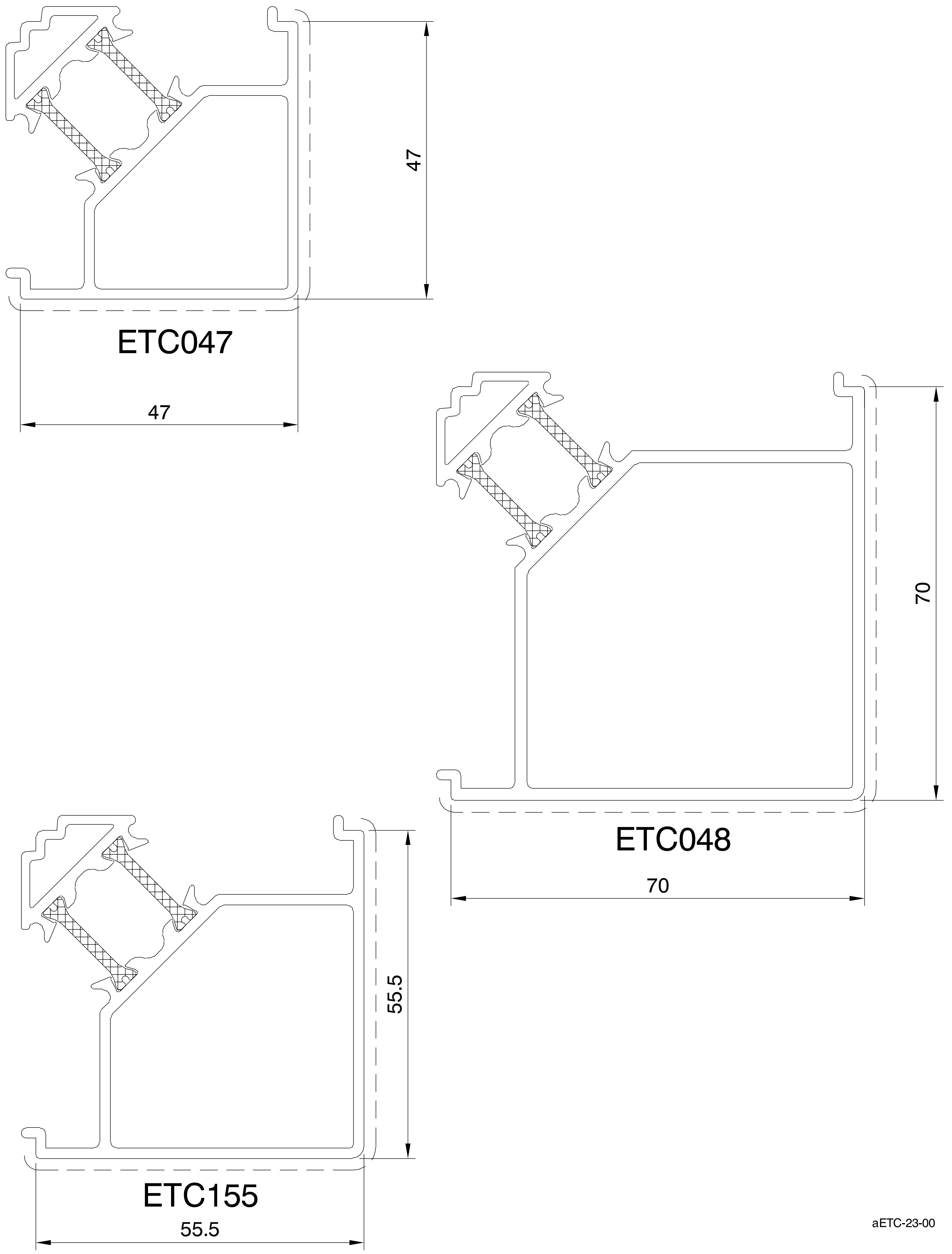


ETC143

aETC-22-00

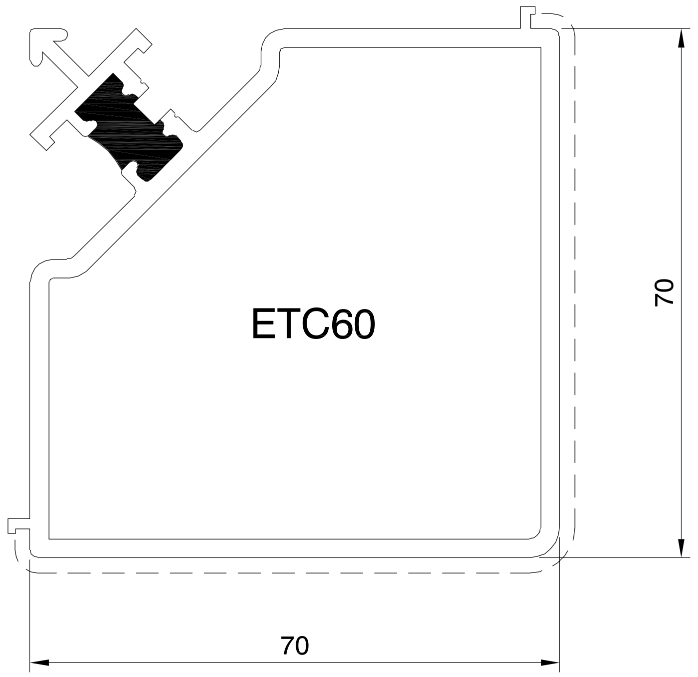
PROFILES

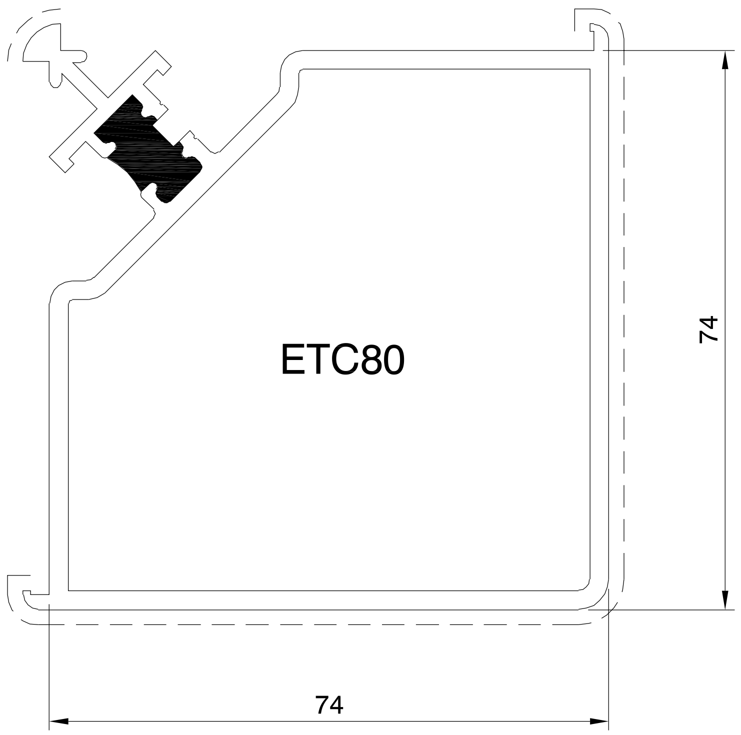
Primary visible side   Secondary visible side



PROFILES

Primary visible side — Secondary visible side



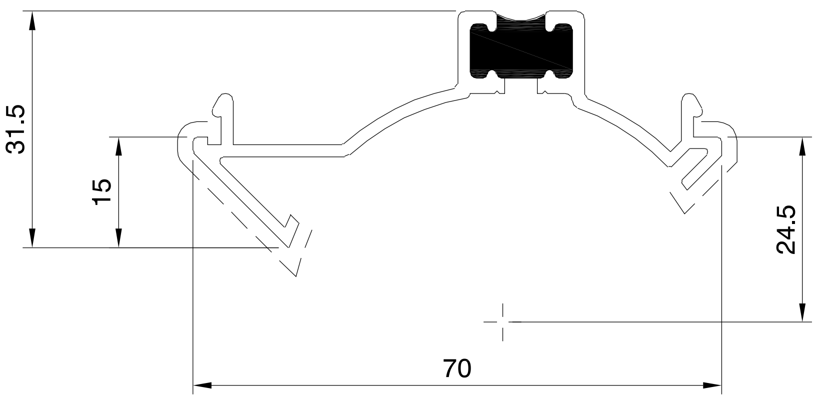


aETC-08-01

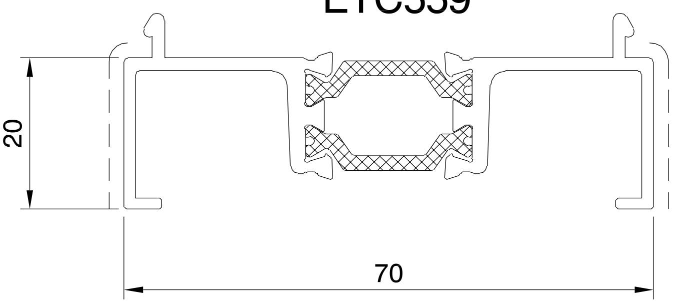
PROFILES

Primary visible side — Secondary visible side

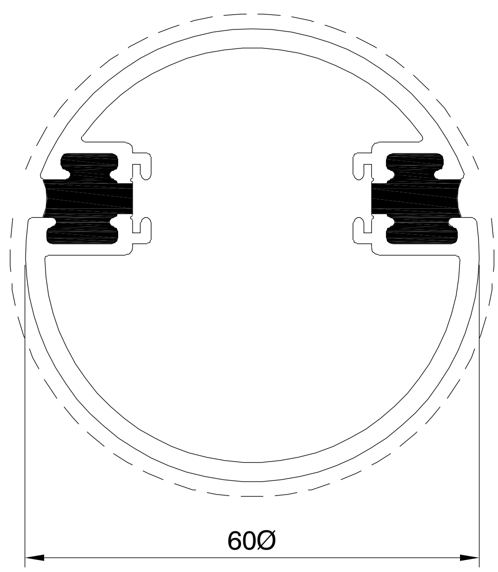
ETC150



ETC559



ETC69



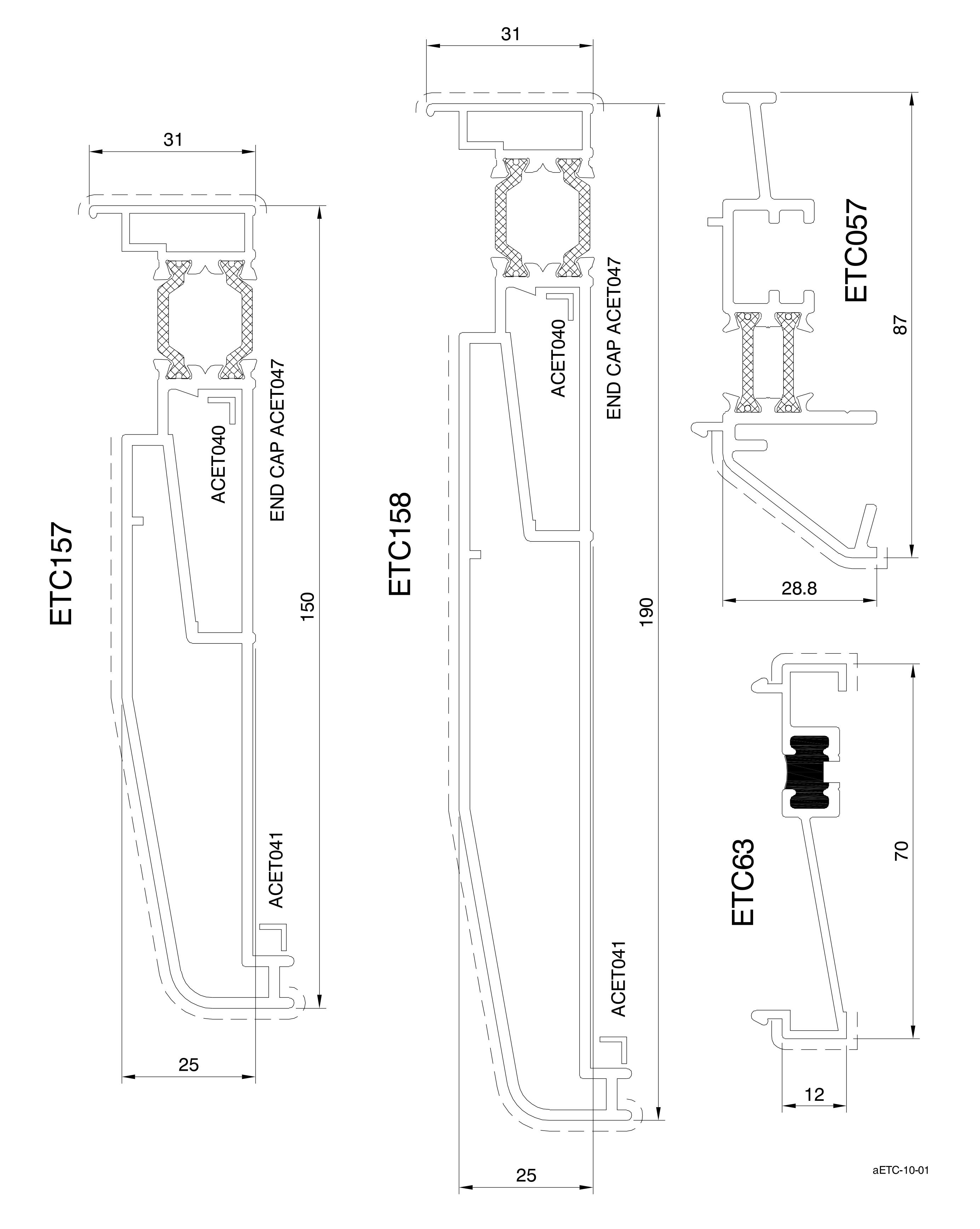
aETC-09-01

ALITHERM

PROFILES

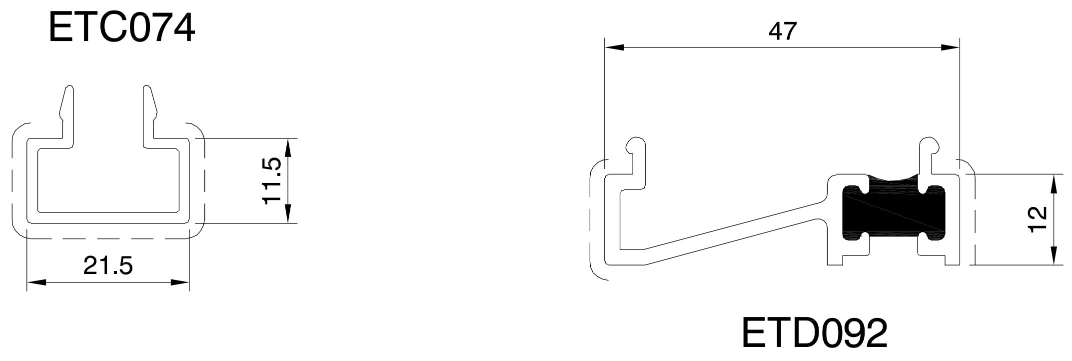
Primary visible side

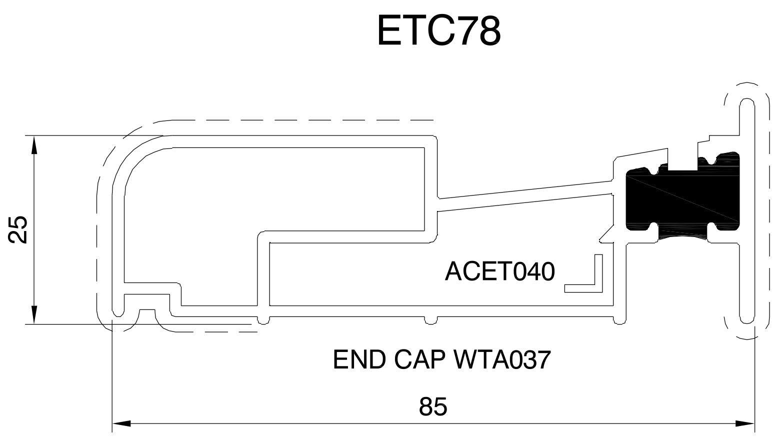
Secondary visible side

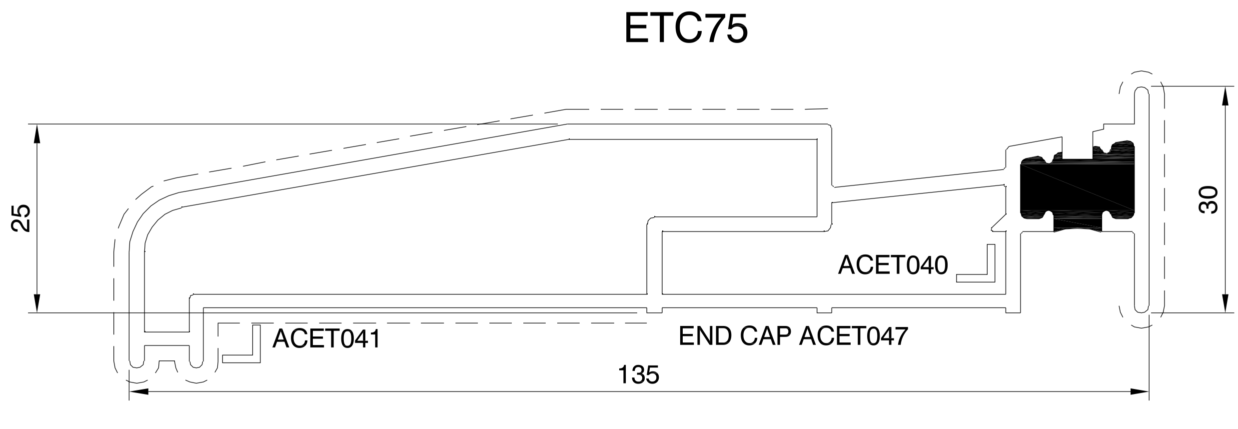


PROFILES

Primary visible side | Secondary visible side



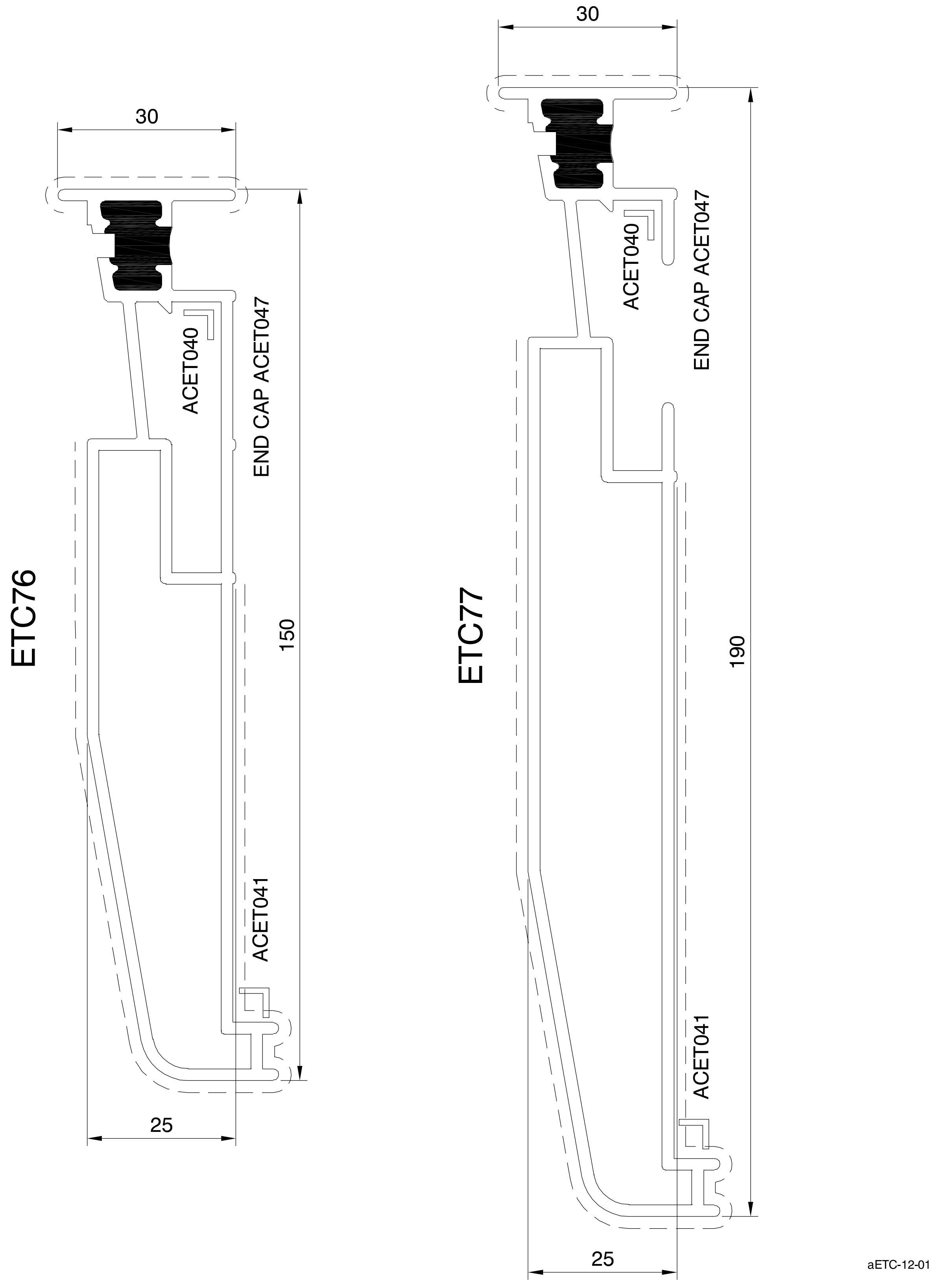




aETC-11-02

PROFILES

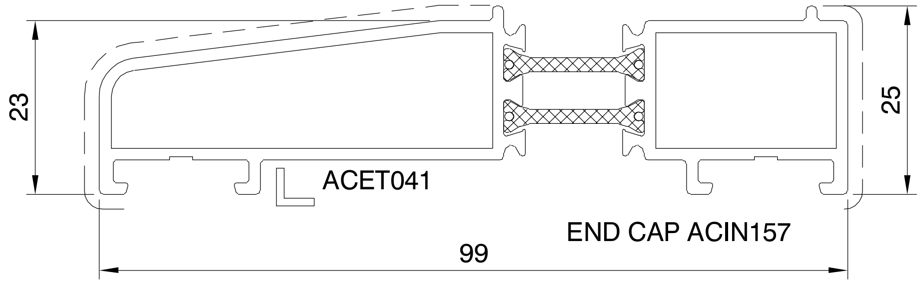
Primary visible side — Secondary visible side



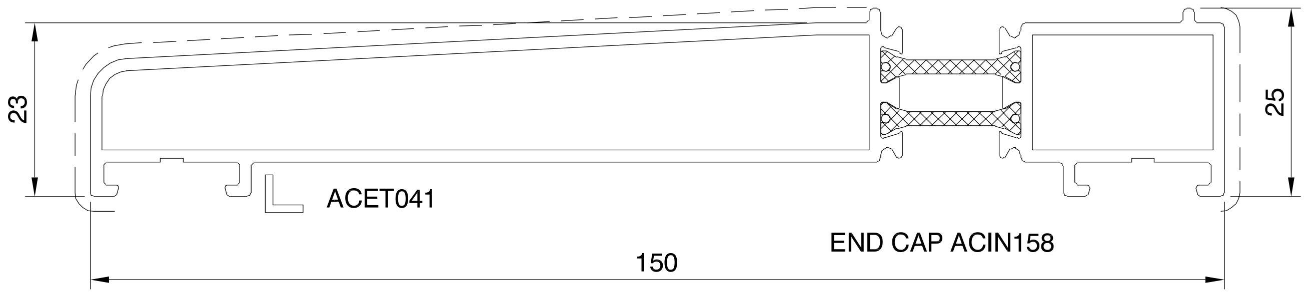
Primary visible side

Secondary visible side

IN057



IN157



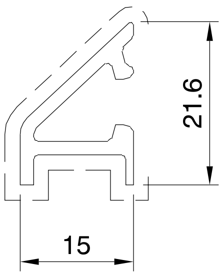
aETC-13-01

ALITHERM

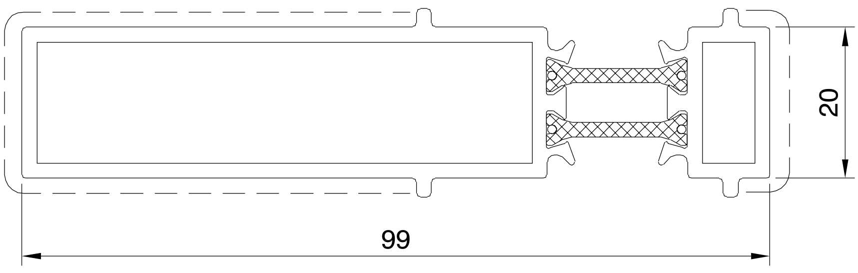
PROFILES

Primary visible side — Secondary visible side

VL72



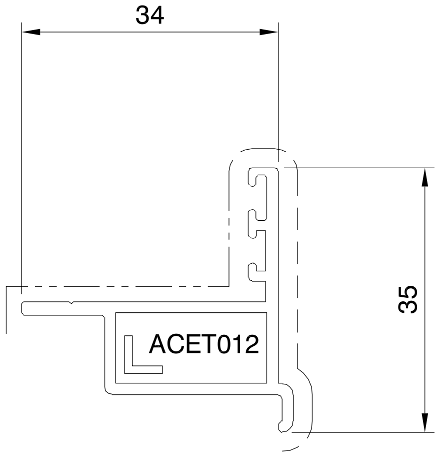
VL54



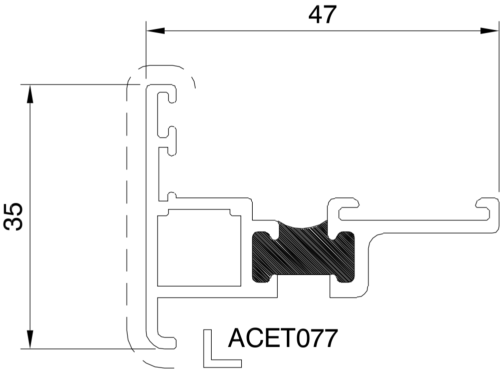
aETC-15-01

PROFILES

Primary visible side | Secondary visible side



ETC045



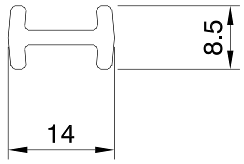
ETC046

aETC-25-01

PROFILES

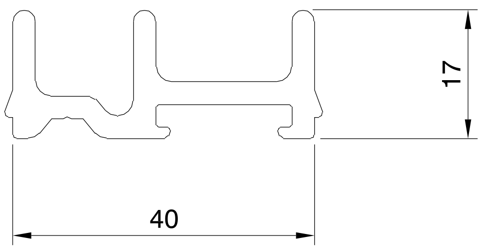
Primary visible side — Secondary visible side

VL75



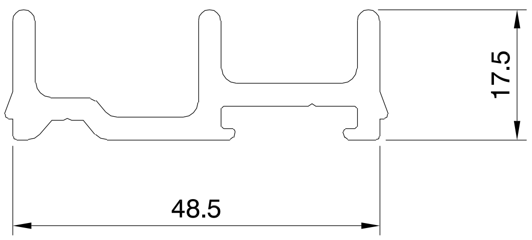
ETC051

PVC PROFILE



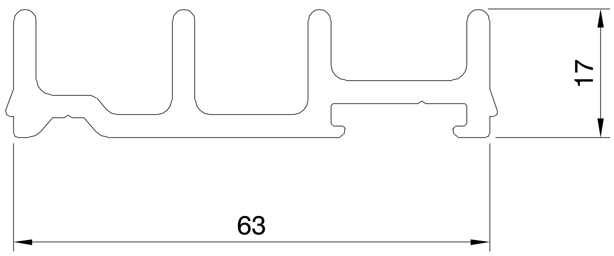
ETC151

PVC PROFILE



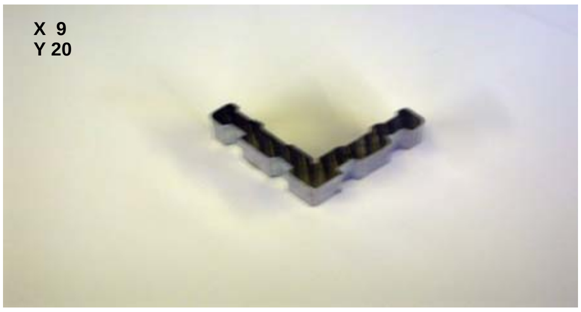
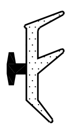
ETC052

PVC PROFILE



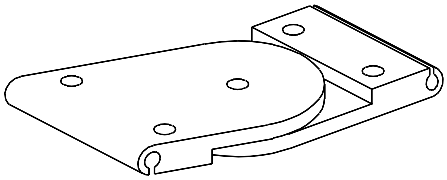
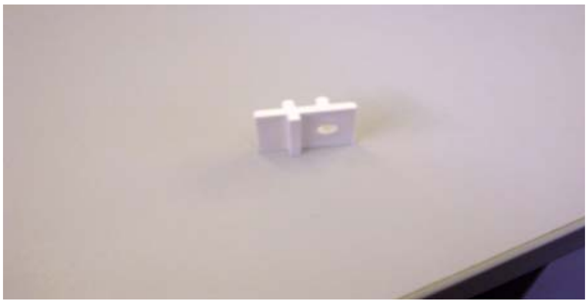
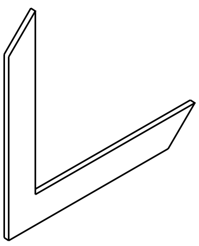
aETC-24-00

ACCESSORIES

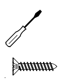
		Pack	Unit	Application	Colour
	**ACET011** -Mechanical corner cleat.	24	Each	ETC110 ETC112 ETC113 ETC114 ETC119 ETC120 ETC121 ETC122 ETC125	MF X SA WP HP BL SB
	**ACET012** -Crimping corner cleat.	24	Each	ETC010 ETC012 ETC014 ETC015 ETC018 ETC019 ETC020 ETC045 ETC510	MF X SA WP HP BL SB
	**ACET015** -Mechanical transom cleat	24	Each	ETC030 ETC032	MF X SA WP HP BL SB
	**ACET016** -Mechanical transom cleat	24	Each	ETC131 ETC135	MF X SA WP HP BL SB
	**ACET035** -External captive glazing bead	100m	Coil		MF X SA WP HP BL SB

ALITHERM

ACCESSORIES

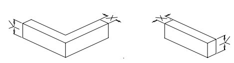
		Pack	Unit	Application	Colour
	**ACET040** -Cleat for variable angle sill joints	10	Each	ETC75 ETC76 ETC77 ETC78 ETC157 ETC158	MF X SA WP HP BL SB
	**ACET041** -Nose bracket for variable angled cill joints.	1	Each	IN057 IN157	MF X SA WP HP BL SB
	**ACET042** -Espagnolette location block	100	Each	ETC122	MF X SA WP HP BL SB
	**ACET043** -Fixing plate for cruciform joint	5 pairs	Each	ETC130	MF X SA WP HP BL SB
	**ACET044** --Stainless steel chevron	100	Each		MF SA WP HP BL ST X

MF = MILL FINISH BL = BLACK
SA = ANODISED ST = STAINLESS STEEL
WP = WHITE
HP = SPECIAL COLOR

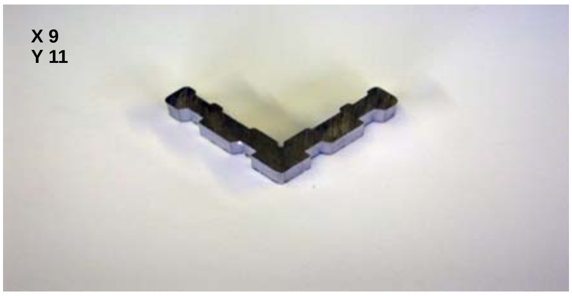
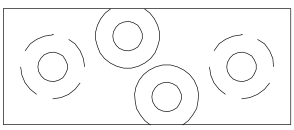


TOOL

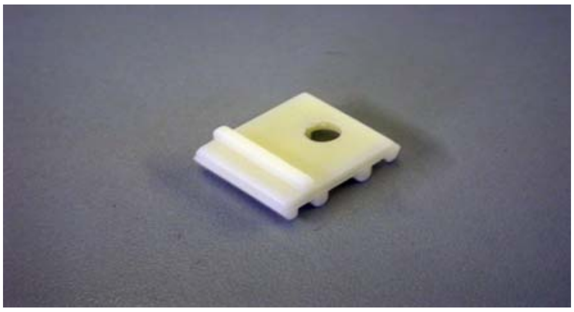
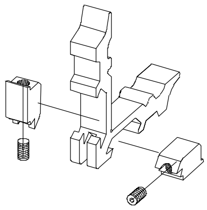
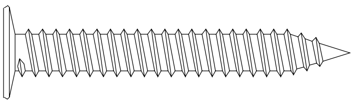
FIXING



ACCESSORIES

		Pack	Unit	Application	Colour
	**ACET045** -Stainless steel chevron	100	Each		MF SA WP HP BL ST X
	**ACET047** -Sill end caps	10	Each	ETC75 ETC76 ETC77 ETC157 ETC158	MF SA WP X HP BL X SB
	**ACET049** Cleat	24	Each	ETC015 ETC019	MF SA WP HP BL SB
	**ACET050** Cleat	24	Each	ETC022 ETC025	MF SA WP HP BL SB
	**ACET051** Fixing Plate	5	Each	ETC132	MF SA WP HP BL SB

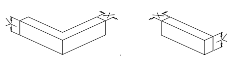
ACCESSORIES

		Pack	Unit	Application	Colour
	**ACET052** Hinge location block	100	Each	ETC023 ETC024	MF SA WP X HP BL X SB
	**ACET057** Mechanical cleat			ETC124	MF SA WP HP BL SB
	**ACET060** 7 X 1" CSK S/Steel. S/tapping Screw				MF X SA WP HP BL SB
	**ACET061** -No. 6 x 10mm csk hd. mc. screw	100	Each	ACET090 ACET091	MF X SA WP HP BL SB
	**ACET062** -No 10 x 2 csk hd. s/steel s/tapping screw.	100	Each	ETC60 ETC69 ETC80 ETC047 ETC048 ETC155	MF SA WP HP BL ST X

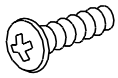
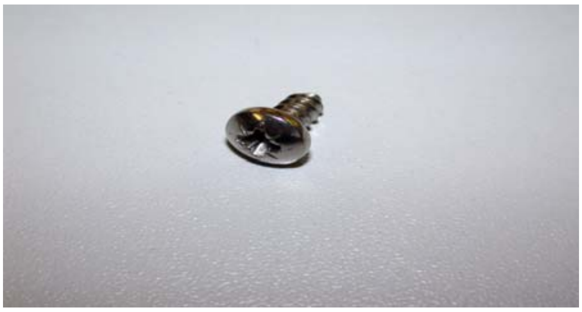
MF = MILL FINISH BL = BLACK
SA = ANODISED ST = STAINLESS STEEL
WP = WHITE
HP = SPECIAL COLOR

TOOL

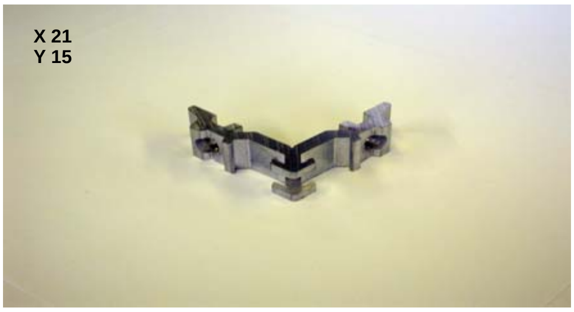
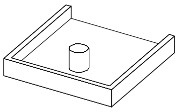
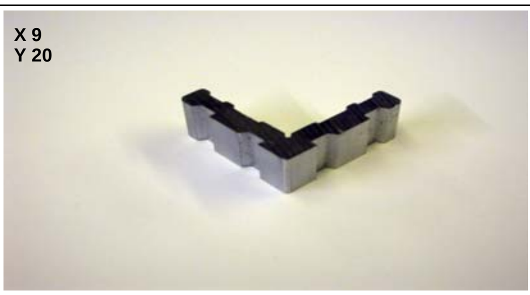
FIXING



ACCESSORIES

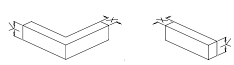
		Pack	Unit	Application	Colour
	**ACET063** -No. 8 x 1/2" pan hd. s/steel. s/tapping screw. Friction stays	100	Each	ETC022 ETC025	MF SA WP HP BL ST X
	**ACET064** -No. 8 x 5/8" csk hd. s/steel. s/tapping screw. Locking hardware	100	Each		MF SA WP HP BL ST X
	**ACET065** -No. 8 x 3/8" pan hd. s/steel. s/tapping screw. Friction stay to vent and outer frame	100	Each		MF SA WP HP BL ST X
	**ACET066** -No. 7 x 1 1/2" csk. s/steel. s/tapping screw.	100	Each	ETC031N ETC032 ETC130 ETC132 ACET090 ACET091	MF SA WP HP BL ST X
	**ACET067** -No. 7 x 1/2" csk. s/steel. s/tapping screw.	100	Each	ACET043, ACET 046 ACET 051	MF SA WP HP BL ST X

ACCESSORIES

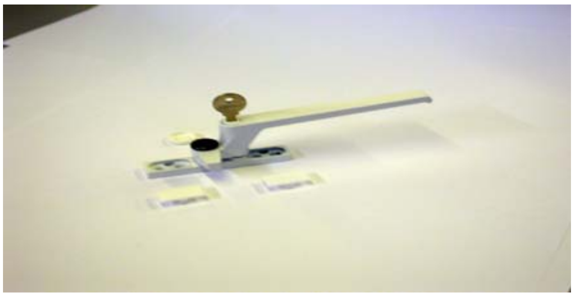
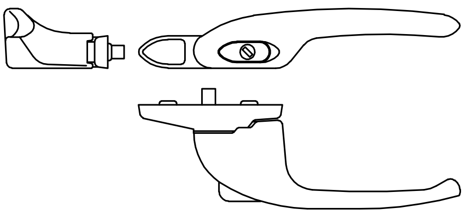
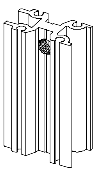
		Pack	Unit	Application	Colour
	**ACET069** -M5 x 12mm short csk. screw. Locking handle	100	Each		MF X SA WP HP BL GO
	**ACET074** Cleat for use with shootbolt	20	Each	ETC023 ETC024 ETC026	MF SA WP HP BL SB
	**ACET075** End Cap	50	Each	ETC032	MF SA WP HP BL SB
	**ACET077** Cleat	24	Each	ETC046	MF SA WP HP BL SB
	**ACET078** Cleat	24	Each	ETC146	MF SA WP HP BL SB

MF = MILL FINISH BL = BLACK
SA = ANODISED ST = STAINLESS STEEL
WP = WHITE
HP = SPECIAL COLOR

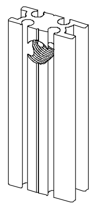
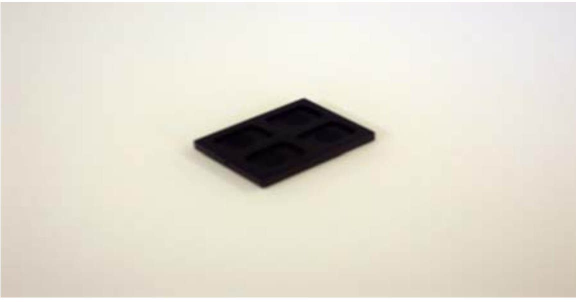
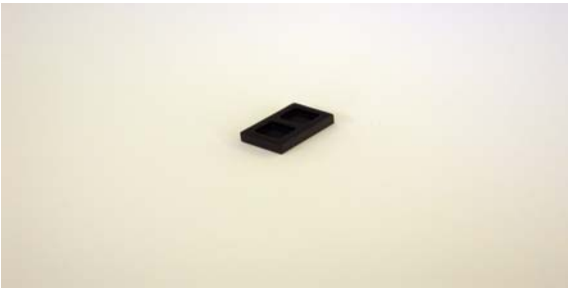
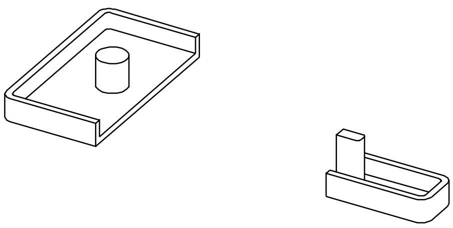
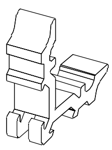
TOOL
FIXING



ACCESSORIES

		Pack	Unit	Application	Colour
	**ACET080L/R** -Cockspur handles	5	Each		MF SA X WP X HP BL X SB X
	**ACET081L/R** -9mm spindle handles.	1	Each		MF SA WP X HP BL X GO
	**ACET082** -Cadenza fork locking handles	5 1	Each Each		MF SA WP X HP BL GO
	**ACET083** Cockspur handle wedge	100	Each		MF SA WP X HP BL x GO
	**ACET090** Fixing Block	24	Each	ETC131 To ETC110 ETC112 ETC119	MF SA WP HP BL SB

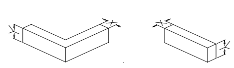
ACCESSORIES

		Pack	Unit	Application	Colour
	**ACET091** Fixing Block	24	Each	ETC030 ETC032 To ETC010 ETC012 ETC018 ETC019	MF SA WP HP BL SB
	**ACET092** Packer	25	Each	ETC146	MF SA WP HP BL SB
	**ACET093** Packer	25	Each	ETC046	MF SA WP HP BL SB
	**ACET094** End Cap	10	Each	ETC135	MF SA WP HP BL X SB
X=29 Y=12 	**ACET095** Crimping cleat for use with Cockspur only	24	Each	ETC023 ETC024 ETC026	MF SA WP HP BL SB

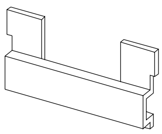
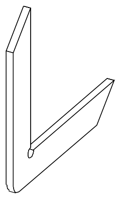
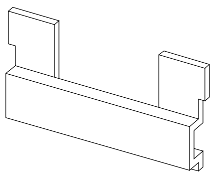
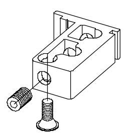
MF = MILL FINISH BL = BLACK
SA = ANODISED ST = STAINLESS STEEL
WP = WHITE
HP = SPECIAL COLOR

TOOL

FIXING

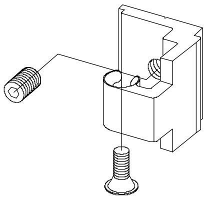
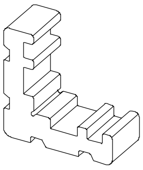
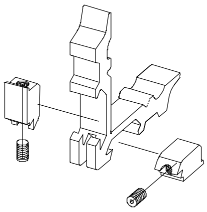
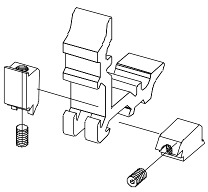


ACCESSORIES

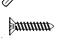
		Pack	Unit	Application	Colour
	**ACET106** Cleat	24	Each	ETC026	MF SA WP HP BL SB
	**ACET114** Clip	100	Each	ETC030 ETC031N	MF SA WP HP BL SB
	**ACET115** Chevron			ETC010 ETC012 ETC014 ETC015 ETC018 ETC019 ETC020 ETC110 ETC112 ETC119	MF SA WP HP BL SB
	**ACET125** Clip	100	Each	ETC033	MF SA WP HP BL SB
	**ACET126** Mechanical cleat	24	Each	ETC031N	MF SA WP HP BL SB

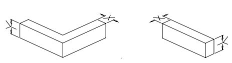
ALITHERM

ACCESSORIES

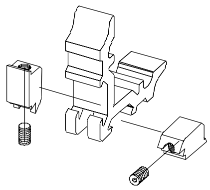
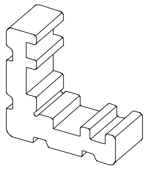
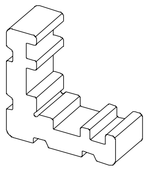
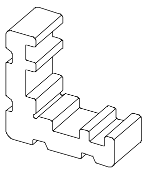
		Pack	Unit	Application	Colour
	**ACET129** Mechanical cleat	24	Each	ETC033	MF SA WP HP BL SB
Image not available	**ACET135** Vee block			ETC124	MF SA WP HP BL SB
X=19 Y=12 	**ACET136** Crimping cleat			ETC124	MF SA WP HP BL SB
X=13 Y=12 	**ACET137** Mechanical cleat	24	Each	ETC116	MF SA WP HP BL SB
X=27 Y=12 	**ACET138** Mechanical cleat	24	Each	ETC116	MF SA WP HP BL SB

MF = MILL FINISH BL = BLACK
SA = ANODISED ST = STAINLESS STEEL
WP = WHITE
HP = SPECIAL COLOR


TOOL

FIXING



ACCESSORIES

		Pack	Unit	Application	Colour
X=15 Y=21 	**ACET139** Mechanical cleat	24	Each	ETC126	MF SA WP HP BL SB
X=13 Y=12 	**ACET144** Crimping cleat	24	Each	ETC126	MF SA WP HP BL SB
X=27 Y=12 	**ACET145** Crimping cleat	24	Each	ETC126	MF SA WP HP BL SB
X=28 Y=12 	**ACET146** Crimping cleat	24	Each	ETC126	MF SA WP HP BL SB
Image not available	**ACET900** -Vee block.	1	Each		MF X SA WP HP BL SB

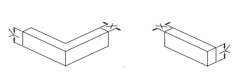
ALITHERM

ACCESSORIES

		Pack	Unit	Application	Colour
Image not available	**ACET901** -Vee block.	1	Each		MF X SA WP HP BL SB
Image not available	**ACET902** -Crimping punch.	1	Each		MF X SA WP HP BL SB
Image not available	**ACET903** -Vee block.	1	Each		MF X SA WP HP BL SB
Image not available	**ACET904** -Crimping punch.	1	Each		MF X SA WP HP BL SB
Image not available	**ACET905** -Crimping punch.	1	Each		MF X SA WP HP BL SB

MF = MILL FINISH BL = BLACK
SA = ANODISED ST = STAINLESS STEEL
WP = WHITE
HP = SPECIAL COLOR

TOOL
FIXING



ACCESSORIES

		Pack	Unit	Application	Colour
Image not available	**ACET906** -Punch tool for mechanically fixed corner joints.	1	Each		MF X SA WP HP BL SB
Image not available	**ACET907** -Stepped twist drill for corner joints.	1	Each		MF X SA WP HP BL SB
Image not available	**ACET908** -Drill jig - transom/mullion screw fixing holes	1	Each	ETC130	MF X SA WP HP BL SB
Image not available	**ACET909** -Drill jig - transom/mullion screw fixing holes	1	Each	ETC131	MF X SA WP HP BL SB
Image not available	**ACET911** Drill Jig for Hinges Top hung - 47 system				MF SA WP HP BL SB

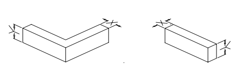
ACCESSORIES

		Pack	Unit	Application	Colour
Image not available	**ACET915** Drill Jig for Hinges Side hung - 47 system				MF SA WP HP BL SB
Image not available	**ACET922** Punch tool				MF SA WP HP BL SB
Image not available	**ACET932** Egress friction stay drilling jig	1	Each	ETC022 ETC025	MF SA WP HP BL SB
Image not available	**ACET933** Friction stay drilling jig	1	Each	ETC022 ETC025	MF SA WP HP BL SB
Image not available	**ACET934** Friction stay drilling jig	1	Each	ETC022 ETC025	MF SA WP HP BL SB

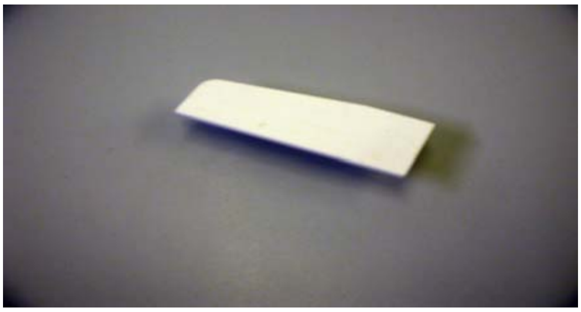
MF = MILL FINISH   BL = BLACK
SA = ANODISED   ST = STAINLESS STEEL
WP = WHITE
HP = SPECIAL COLOR

TOOL

FIXING



ACCESSORIES

		Pack	Unit	Application	Colour
	**ACIN010** -Climping cleat.	1	Each	ETC110 ETC112 ETC118 ETC119 ETC120 ETC121 ETC122	MF X SA WP HP BL SB
	**ACIN157** Sill End Cap	Pair	Each	IN057	MF SA WP HP BL SB
	**ACIN158** Sill End Cap	Pair	Each	IN157	MF SA WP HP BL SB
	**ACIP045a** Cleat	1	Each	ETC023	MF SA WP HP BL SB
	**ACMX09700** --Alu-polish	1	Each		MF X SA WP HP BL SB

ACCESSORIES

		Pack	Unit	Application	Colour
	**ACMX09761** -Maxi-gloss	1	Each		MF X SA KL HP WP
	**ACMX09762** -Alu-bright	1	Each		MF X SA KL HP WP
	**ACMX09763** -Teflon spray	1	Each		MF X SA KL HP WP
	**ACMX09764** -Maxi-cleaner	1	Each		MF X SA KL HP WP

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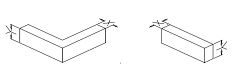
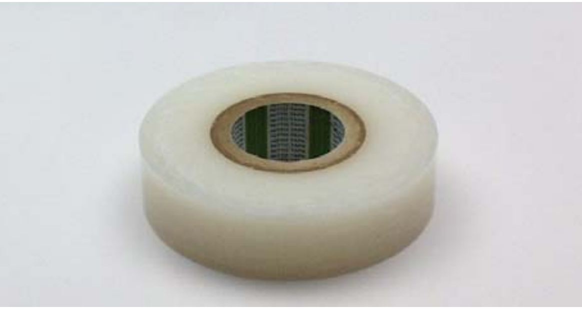
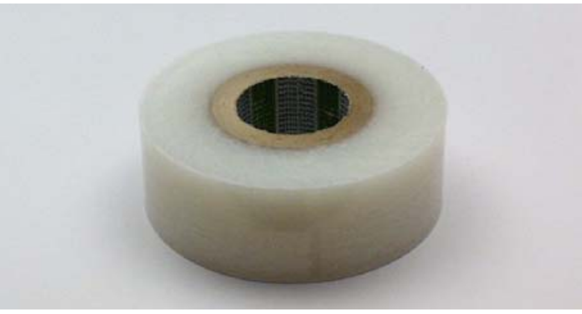
TOOL

FIXING

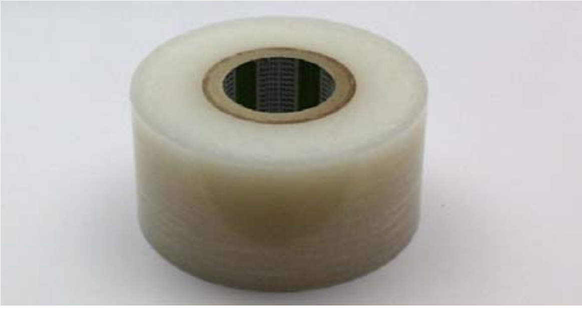


ACCESSORIES

		Pack	Unit	Application	Colour
	**ACMX09765** -Alu-cleaner	1	Each		MF X SA KL HP WP
	**ACMX09770** -Roll andywrap 100mm	1	Each		MF X SA KL HP WP
	**ACMX09775** -Grip andywrap	1	Each		MF X SA KL HP WP
	**ACMX09801** -Protective tape 50mm	1	Each		MF X SA KL HP WP
	**ACMX09802** -Protective tape 70mm	1	Each		MF X SA KL HP WP

ALITHERM

ACCESSORIES

		Pack	Unit	Application	Colour
	**ACMX09803** -Protective tape 100mm	1	Each		MF X SA KL HP WP
	**ACMX09830** -Gum for EPDM-rubber	1	Each		MF X SA KL HP WP
	**ACSIL04 GW/Z** -Silicone GW = White Z= Black	1	Each		MF X SA KL HP WP
	**ACSIL08** -Silicone gun	1	Each		MF X SA KL HP WP
	**ACSIL013** -Glue for mitre	1	Each		MF X SA KL HP WP

MF = MILL FINISH BL = BLACK
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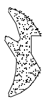
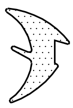
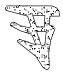
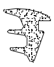
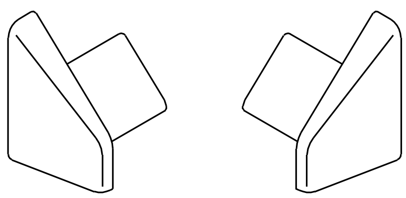
TOOL
FIXING

ACCESSORIES

		Pack	Unit	Application	Colour
	**ACSIL014** -Anti-corro - protection product	1	Each		MF X SA KL HP WP
	**ACVG31** -Glazing captive gasket.	200m	Coil		MF X SA KL HP WP
	**ACVG33**	200	Coil		MF SA WP HP BL SB
	**ACVG34** -Glazing gasket 5mm.	100m	Coil		MF X SA KL HP WP
	**ACVG45** Drain Cap	1	Each		MF SA WP HP BL SB

ACCESSORIES

		Pack	Unit	Application	Colour
	**ACVG49** Seal	200	Coil		MF SA WP HP BL SB
	**ACVG231** -	200	Coil		MF X SA KL HP WP
	**ACVG340** Seal	200	Coil	SC030 ETC014	MF X SA KL HP WP
	**ACVL032** -Weatherseal flipper gasket.	100m	Coil		MF X SA WP HP BL SB
	**ACVL059** -End cap for VL72.	1	Pair		MF X SA WP HP BL SB

MF = MILL FINISH BL = BLACK
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WP = WHITE
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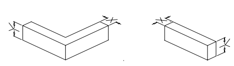
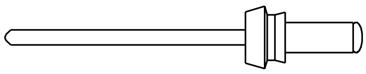
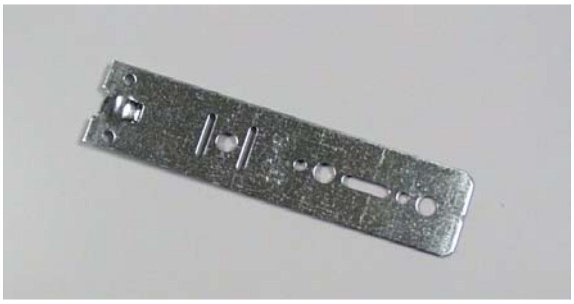
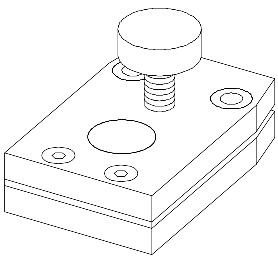
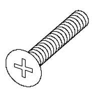
TOOL

FIXING

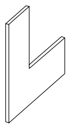


ACCESSORIES

		Pack	Unit	Application	Colour
	**ACVL061** -Fixing for VL72 drip.	1	Each		MF X SA WP HP BL SB
	**ACVL130** Anchor	1	Each	ETC012 ETC018 ETC019 ETC110 ETC114 ETC119	MF SA WP HP BL SB
Image not available	-Espag lock and cadenza handle available from Wagners.				MF SA WP HP BL SB
	**HEJ050ALZ** Drill Jig	1	Each	ETC075 ETC076 ETC077 ETC078 ETC157 ETC158	MF X SA WP HP BL SB
	**RUA015SSZ** Friction stay	100	Each	ETC023 ETC024 ETC026	MF SA WP HP BL SB

ALITHERM

ACCESSORIES

		Pack	Unit	Application	Colour
	**UUA412** Drain Cap	20	Each	ETC131 ETC132	MF SA WP HP BL SB
	**WCA106** Corner chevron			ETC124	MF SA WP HP BL SB
Image not available	**WTT066HSZ** V. Block			ETC146	MF SA WP HP BL SB

MF = MILL FINISH BL = BLACK
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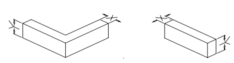
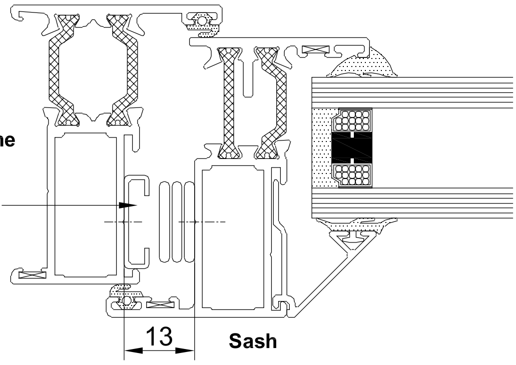
TOOL

FIXING



Alitherm 55 (With Cockspur ETC122)



Friction Hinge Stays (13mm Stack)

Top Hung Windows

Top Hung	type of Hinge / Stay	Max. Vent Weight	Height		Typical Width
			Minimum	Maximum	
ACINDS10	Standard	16	220	500	-
ACINDS16		21	420	750	-
ACINDS20		24	530	1000	-
ACINDS24		35	630	1200	-
ACINDA10	Austenitic	12	270	500	-
ACINDA16		21	420	750	-
ACINDA20		24	630	1000	-
ACINDA24		35	630	1200	-
ACINV10	Vector	20	270	500	-
ACINV16		21	420	750	-
ACINV20		24	630	1000	-
ACINV24		35	630	1200	-
ACINDR12	Restricted	21	320	750	-
ACINDR16		21	420	750	-
ACINDR20		24	530	1000	-
ACINDR24		35	630	1200	-

Side Hung Windows

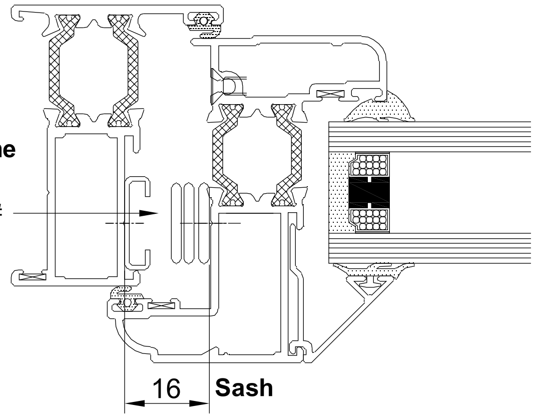
Side Hung	type of Hinge / Stay	Max. Vent Weight	Width		Typical Height
			Minimum	Maximum	
ACINDSSH16	Standard	24	420	600	-
ACINDASH16	Austenitic				
ACINVSH16	Vector				
ACINDRSH16	Restricted				
ACINDESH16	Egress				

Note1: Vent Height / Width is measured in mm from rebate to rebate (not overall size or outer frame)
Note2: Top hung height and side hung width sizes to be reduced by 2mm where size is 450mm or smaller
Note3: Typical Dimentions based on Max. Size and Glass 30kg/metre

DO NOT SCALE FROM THIS DRAWING

ALITHERM 55

Alitherm 55 (Non-Cockspur NOT ETC122)



Friction Hinge Stays (16mm Stack)

Top Hung Windows

Top Hung	Type of Hinge / Stay	Max. Vent Weight (kg's)	Height		Typical Width
			Minimum	Maximum	
ACETDHS08	Standard	12	220	350	-
ACETDHS10		16	270	400	-
ACETDHS12		20	320	550	-
ACETDHS16		21	420	780	-
ACETDHS20		26	530	1100	-
ACETDHS24		40	630	1300	-
ACETDTH24	Heavy Duty	50	630	1500	-

Side Hung Windows

Side Hung	Type of Hinge / Stay	Max. Vent Weight (kg's)	Width		Typical Height
			Minimum	Maximum	
ACETDHSSH12	Standard	22	320	600	-
ACETDHSSH16		24	420	700	-
ACETDESH16	Egress	24	420	700	-

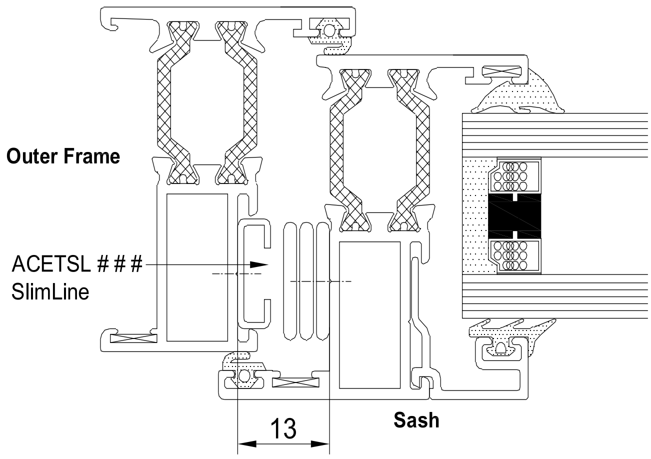
Note1: Vent Height / Width is measured in mm from rebate to rebate (not overall size or outer frame)
Note2: Top hung height and side hung width sizes to be reduced by 2mm where size is 450mm or smaller
Note3: Typical Dimentions based on Max. size and Glass 30kg/metre

DO NOT SCALE FROM THESE DRAWINGS

MF = MILL FINISH BL = BLACK
SA = ANODISED ST = STAINLESS STEEL
WP = WHITE
HP = SPECIAL COLOR

TOOL
FIXING

Alitherm 47 (Without Reverse Adapter ETC045)



Friction Hinge Stays 13mm Stack (SlimLine)

Top Hung Windows

Top Hung	Type of Hinge / Stay	Max. Vent Weight (kg's)	Height		Typical Width
			Mimimum	Maximum	
ACETSL08	SlimLine	10	220	300	-
ACETSL10		16	270	450	-
ACETSL12		21	320	600	-
ACETSL16		22	420	750	-
ACETSL20		24	530	900	-
ACETSL24		32	630	1200	-

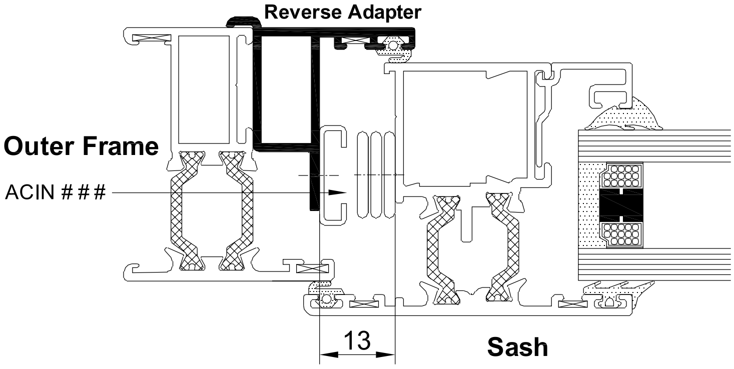
Side Hung Windows

Side Hung	Type of Hinge / Stay	Max. Vent Weight (kg's)	Width		Typical Height
			Minimum	Maximum	
ACETSL12SH	SlimLine	20	320	500	-
ACETSL16		28	420	700	-
ACETSL12E	SlimLine Egress Easy Clean	18	320	500	-
ACETSL16E	SlimLine Egress Easy Clean	21	420	600	-

Note1: Vent Height / Width is measured in mm from rebate to rebate (not overall size or outer frame)
Note2: Top hung height and side hung width sizes to be reduced by 2mm where size is 450mm or smaller
Note3: Typical Dimentions based on Max. Size and Glass 30kg/metre

DO NOT SCALE FROM THESE DRAWINGS

Alitherm 47+ (with Reverse Adapter)



Friction Hinge Stays (13mm Stack)

Top Hung Windows

Top Hung	Type od Hinge / Stay	Max. Vent Weight (Kg's)	Height		Typical Width
			Minimum	Maximum	
ACINDS10	Standard	16	270	500	-
ACINDS16		21	420	750	-
ACINDS20		24	530	1000	-
ACINDS24		35	630	1200	-
ACINDA10	Austenitic	12	270	500	-
ACINDA16		21	420	750	-
ACINDA20		24	530	1000	-
ACINDA24		35	630	1200	-
ACINV10	Vector	20	270	500	-
ACINV16		21	420	750	-
ACINV20		24	530	1000	-
ACINV24		35	630	1200	-
ACINDR12	Restricted	21	320	750	-
ACINDR16		21	420	750	-
ACINDR20		24	530	1000	-
ACINDR24		35	630	1200	-

Side Hung Windows

Side Hung	Type of Hinge / Stay	Max. Vent Width (kg's)	Width		Typical Height
			Minimum	Maximum	
ACINDSSH16	Standard	24	420	600	-
ACINDASH16	Austenitic				
ACINVSH16	Vector				
ACINDRSH16	Restricted				
ACINDESH16	Egress				

Note1: Vent Height / Width is measured in mm from rebate to rebate (not overall size or outer frame)
Note2: Top hung height and side hung width sizes to be reduced by 2mm where size is 450mm or smaller
Note3: Typical Dimention based on Max. Size and Glass 30kg/metre

DO NOT SCALE FROM THIS DRAWING

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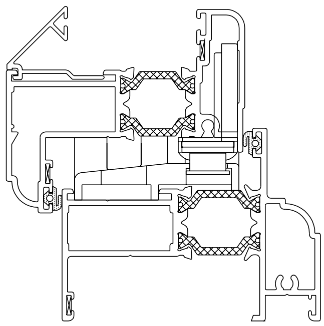
WP = WHITE
HP = SPECIAL COLOR

TOOL
FIXING

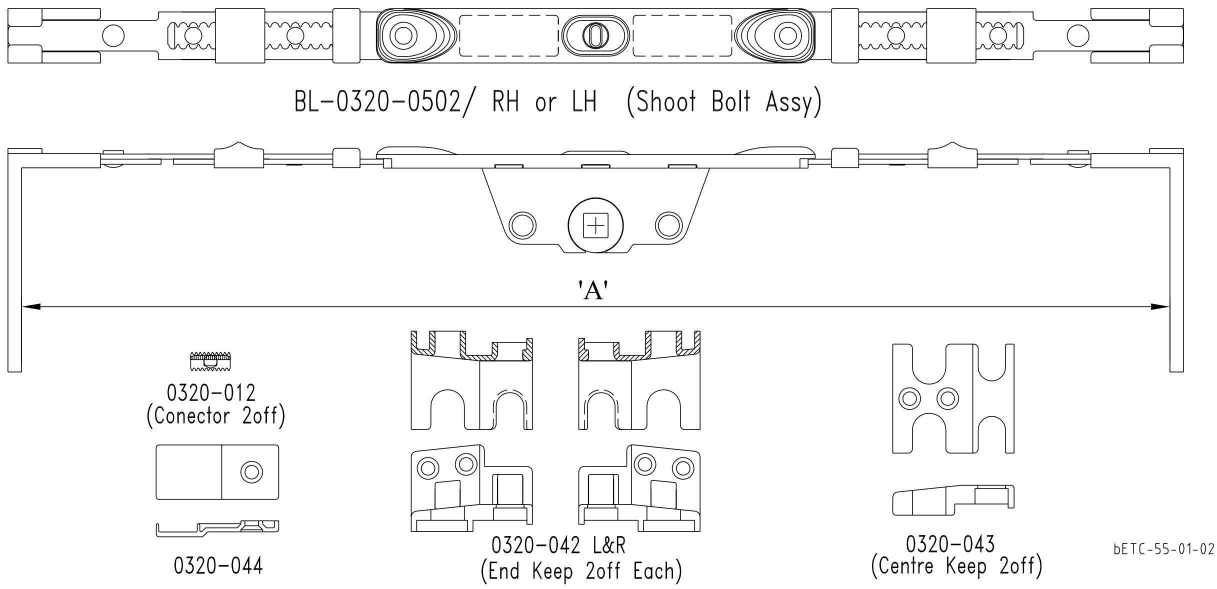
Alitherm 55 (Non-Cockspur NOT ETC122)



Part Code	Sash Size		Handing
	Minimum	Maximum	
ACETOS35R	350	410	Right Handle
ACETOS35L	350	410	Left Handle
ACETOS41R	410	530	Right Handle
ACETOS41L	410	530	Left Handle
ACETOS53R	530	710	Right Handle
ACETOS53L	530	710	Left Handle
ACETOS71R	710	945	Right Handle
ACETOS71L	710	945	Left Handle
ACETOS84R	945	1400	Right Handle
ACETOS84L	945	1400	Left Handle

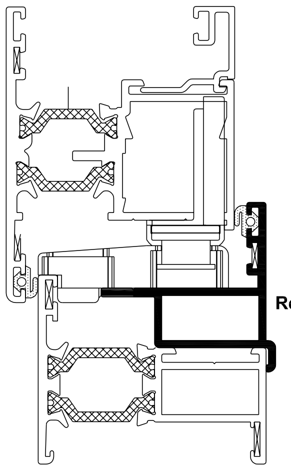
Note1: Sash Limitations are Side Hung Width or Top Hung Height

Note2: To Suit Handle ACET081



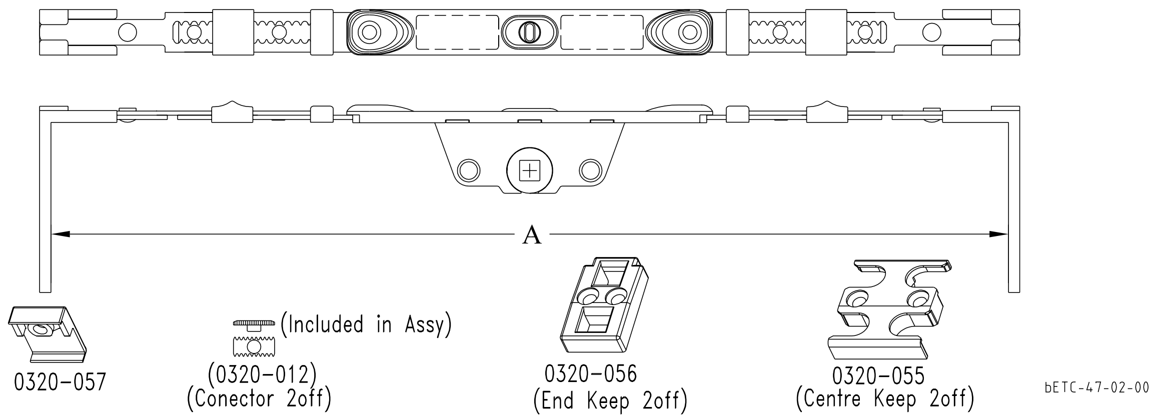
INTERNALLY BEADED VENT FRAME DIRECTLY MOUNTED ONTO REVERSE ADAPTER - ETC045

Alitherm 47+ (with Reverse Adapter ETC045)



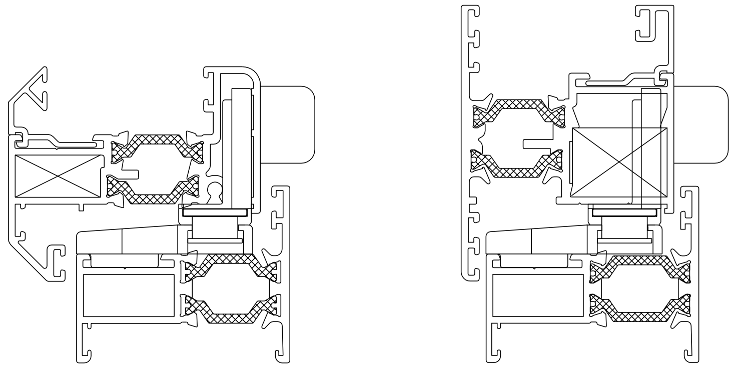
Part Code	Sash Size		Handing
	Minimum	Maximum	
ACETIS35R/47	350	410	Right Handle
ACETIS35L/47	350	410	Left Handle
ACETIS41R/47	410	530	Right Handle
ACETIS41L/47	410	530	Left Handle
ACETIS53R/47	530	710	Right Handle
ACETIS53L/47	530	710	Left Handle
ACETIS71R/47	710	945	Right Handle
ACETIS71L/47	710	945	Left Handle
ACETIS84R/47	945	1400	Right Handle
ACETIS84L/47	945	1400	Left Handle

Note1: Sash Limitations are Side Hung Width or Top Hung Height
Note2: To Suit Handle ACET081



MF = MILL FINISH SA = ANODISED WP = WHITE HP = SPECIAL COLOR	BL = BLACK ST = STAINLESS STEEL	TOOL FIXING

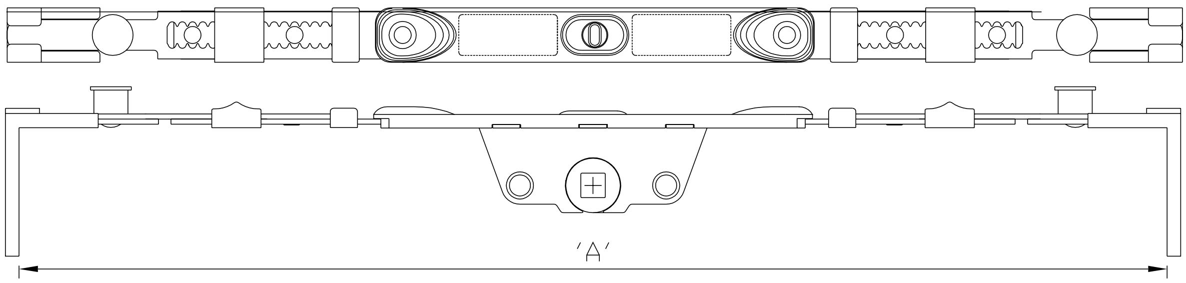
Alitherm 47 (Without Reverse Adapter ETC045)

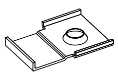


Part Code	Sash Size		Handing
	Minimum	Maximum	
ACETOS35R/47	350	410	Right Handle
ACETOS35L/47	350	410	Left Handle
ACETOS41R/47	410	530	Right Handle
ACETOS41L/47	410	530	Left Handle
ACETOS53R/47	530	710	Right Handle
ACETOS53L/47	530	710	Left Handle
ACETOS71R/47	710	945	Right Handle
ACETOS71L/47	710	945	Left Handle
ACETOS84R/47	945	1400	Right Handle
ACETOS84L/47	945	1400	Left Handle

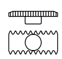
Note1: Sash Limitations are Side Hung Width or Top Hung Height

Note2: To Suit Handle ACET081

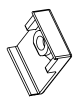




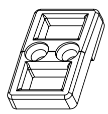
0320-069 (Use With ETC022 & 025)



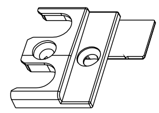
0320-012 (Connector 2off)



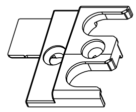
0320-057 (Use With ETC023, 024N & 026)



0320-090 (End Keep)



0320-091 (LH Keep)



0320-091 (RH Keep)

bETC-47-01-02

Window System Restrictors

Alitherm 47 System

Wagner

Option 1

2 JBA 0007 L/H.

2 JBA 0008 R/H 80mm ARM.

2 JBA 0002 9.5mm STUD. 13 TO 14mm STACK.

2 JBA 0003 11.5mm STUD. 14 TO 16mm STACK.

STUD NEEDS TO BE SKIMMED DOWN FROM 15.9mm TO 15.0mm.

SUITED TO TOP AND SIDE HUNG WINDOWS.

RESTRICTOR IS RELEASABLE.

Option 2

5 REN 2008 13mm TO 14.5mm STACK.

RELEASABLE RESTRICTOR. SKIM FROM 15.5mm TO 15mm.

Alitherm 55 System

Option 1

5 GUM 0010 L/H RESTRICTOR RELEASABLE.

5 GUM 0011 R/H.

SIDE HUNG ONLY.

15mm STACK.

PACK SIDE ARM WITH 2mm WASHER.

Smart System

Option 2

WUA 041 RESTRICTOR STAY NON RELEASABLE.

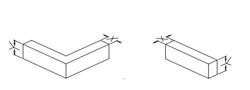
13mm STACK.

TOP AND SIDE HUNG.

PACK SIDE ARM BY 2mm.

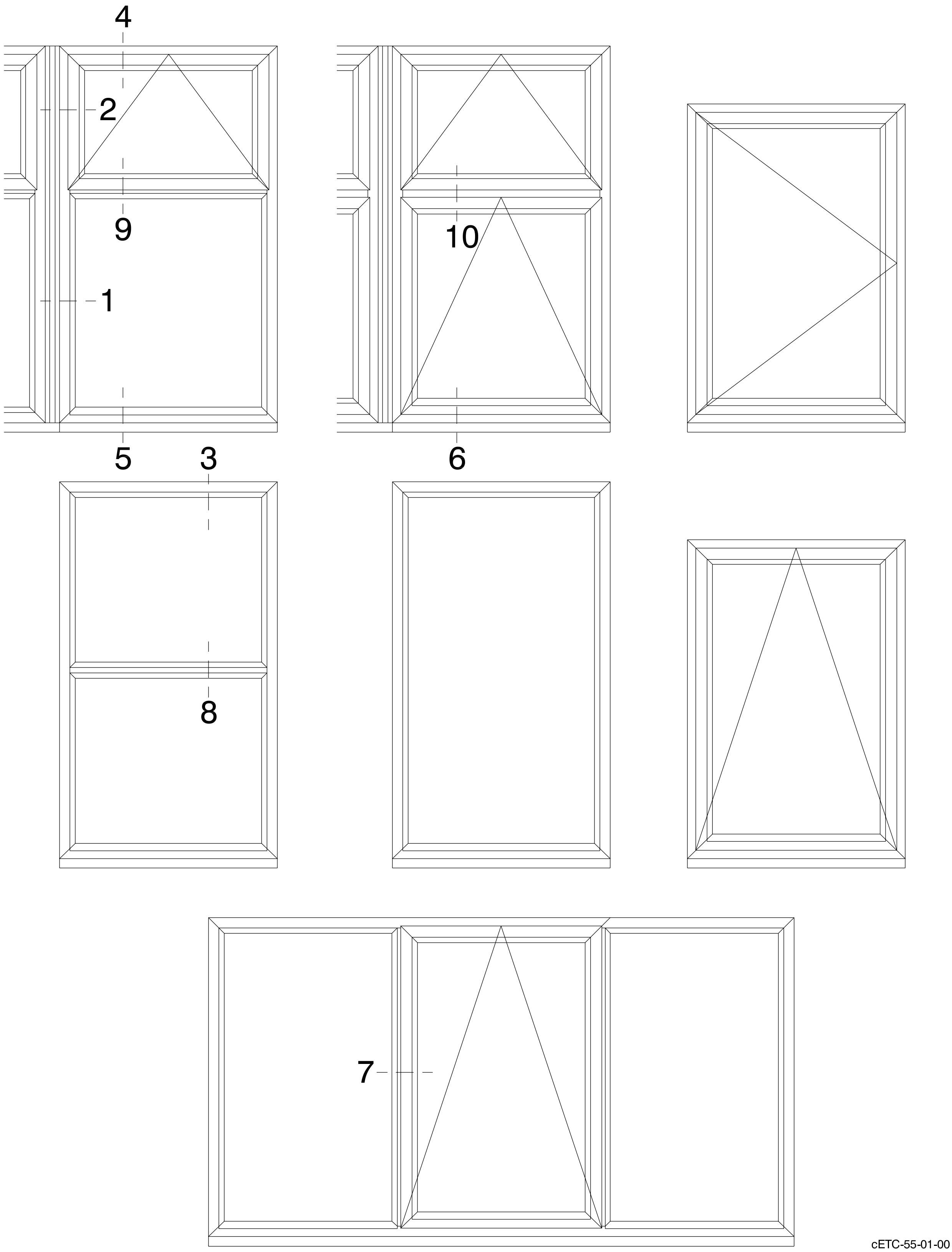
bETC-01-00

MF = MILL FINISH SA = ANODISED WP = WHITE HP = SPECIAL COLOR	BL = BLACK ST = STAINLESS STEEL	TOOL FIXING



SECTION

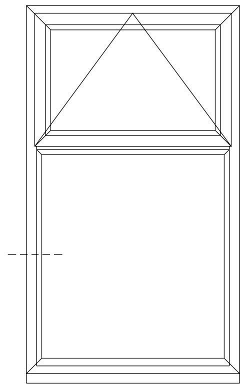
ELEVATIONS

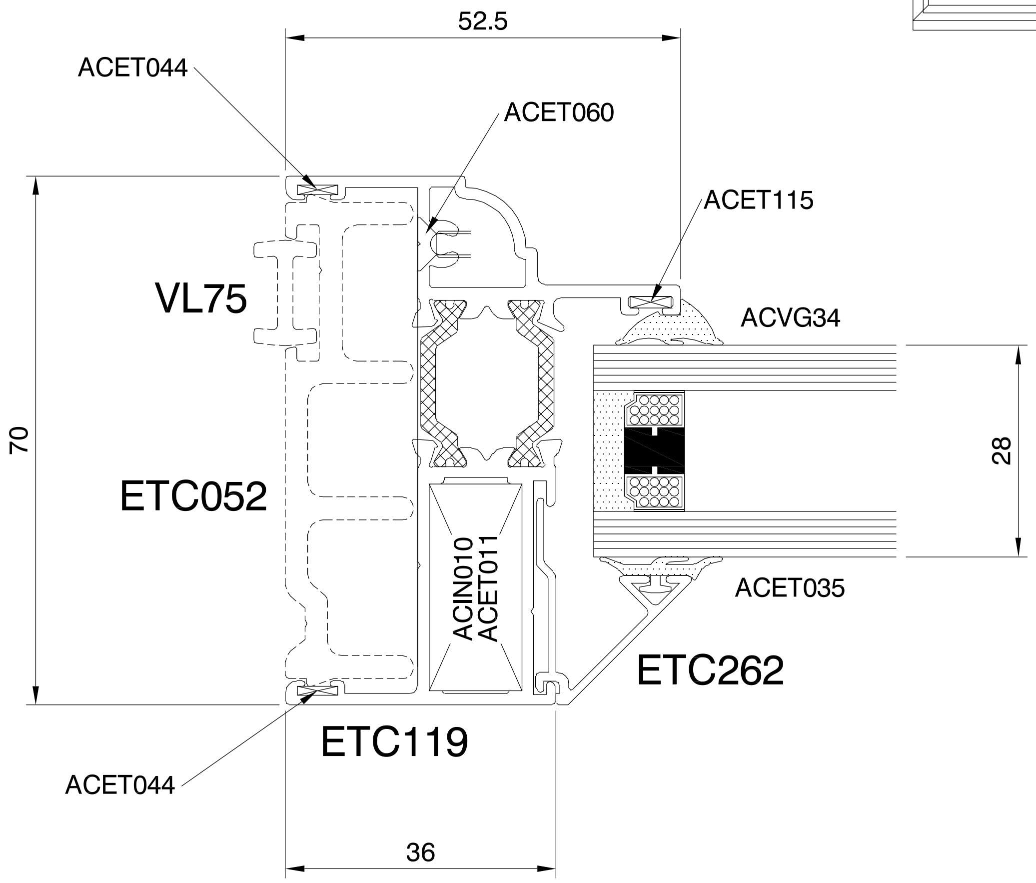


ALITHERM - 55

SECTION

1A

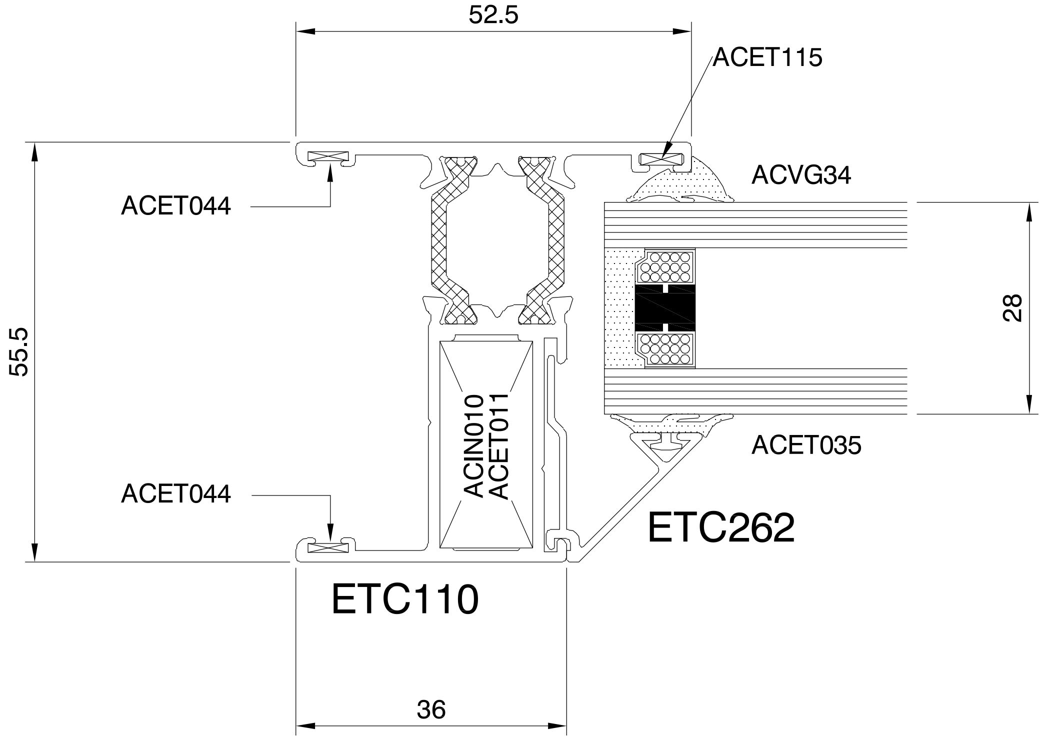


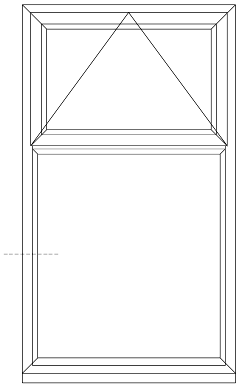


cETC-55-02-01

SECTION

1B





cETC-55-03-01

SECTION

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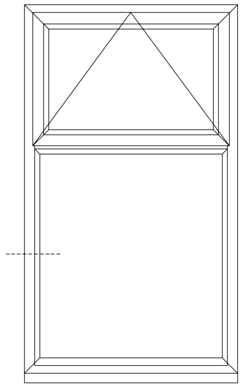

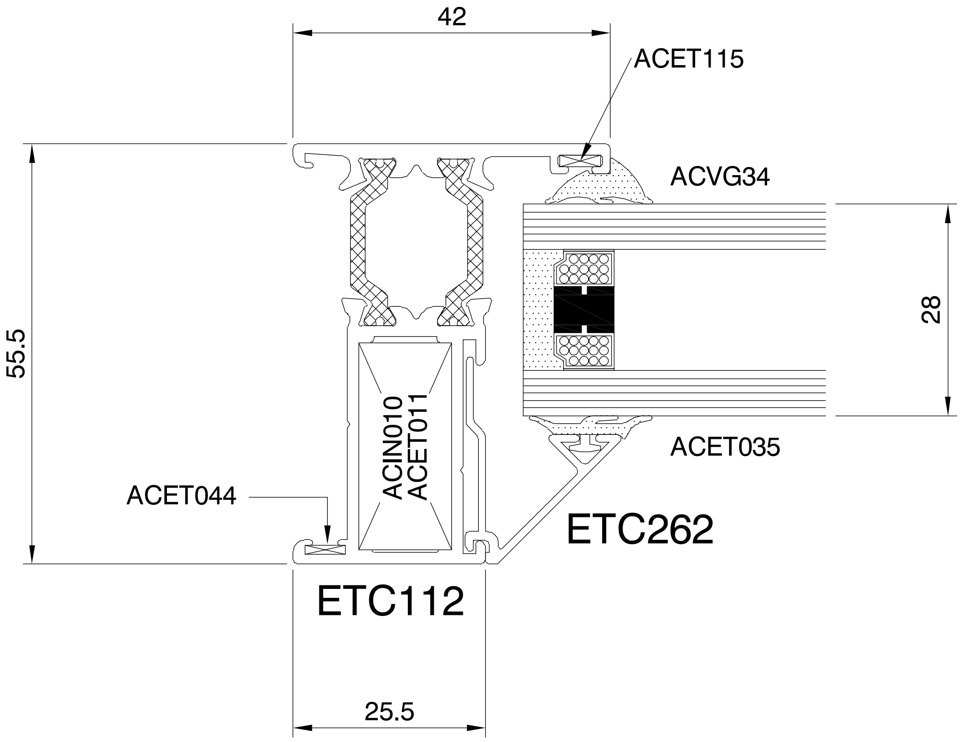

cETC-55-04-01

SECTION

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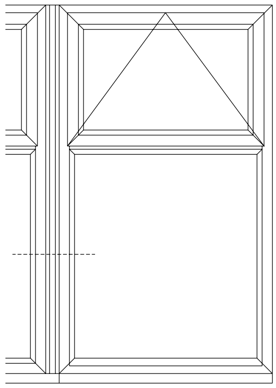
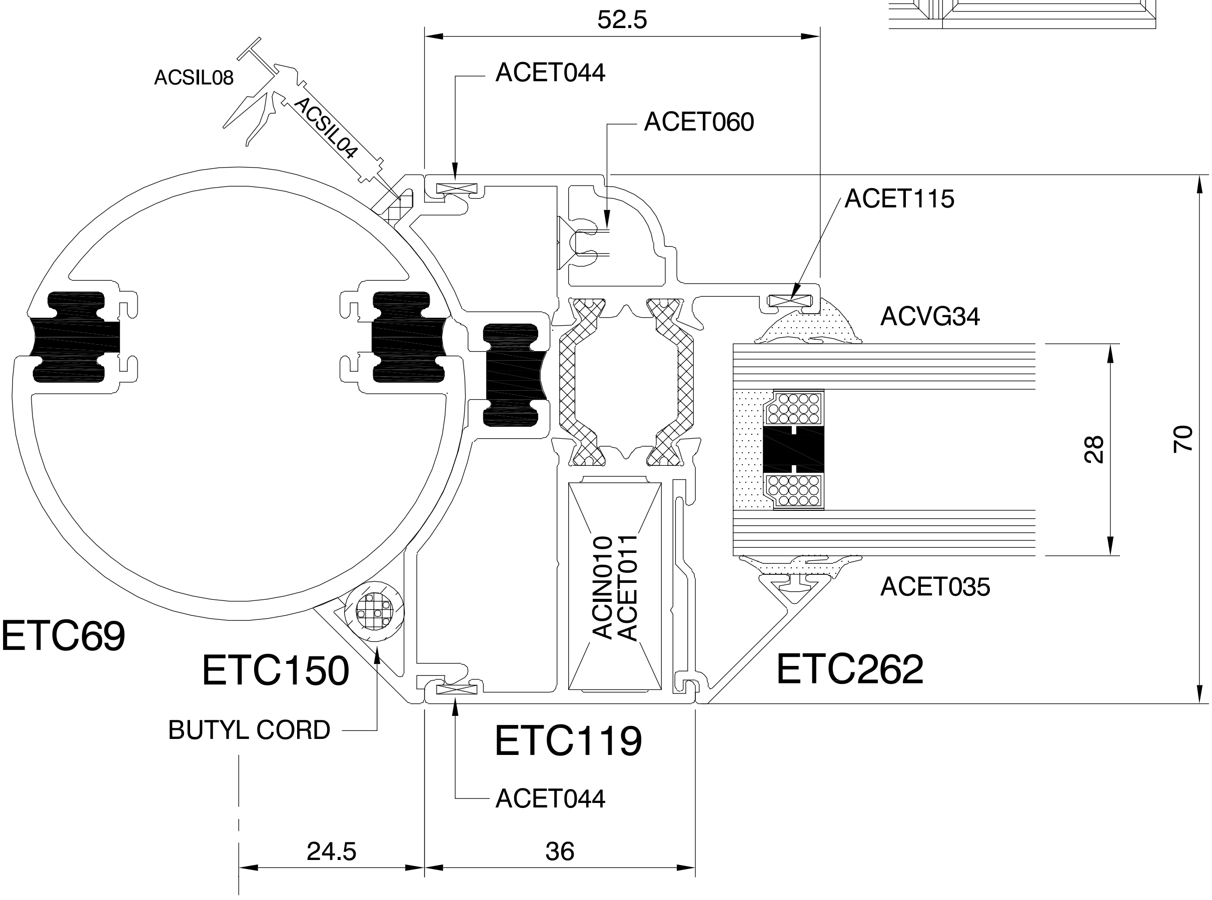


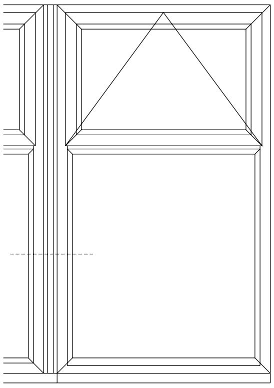


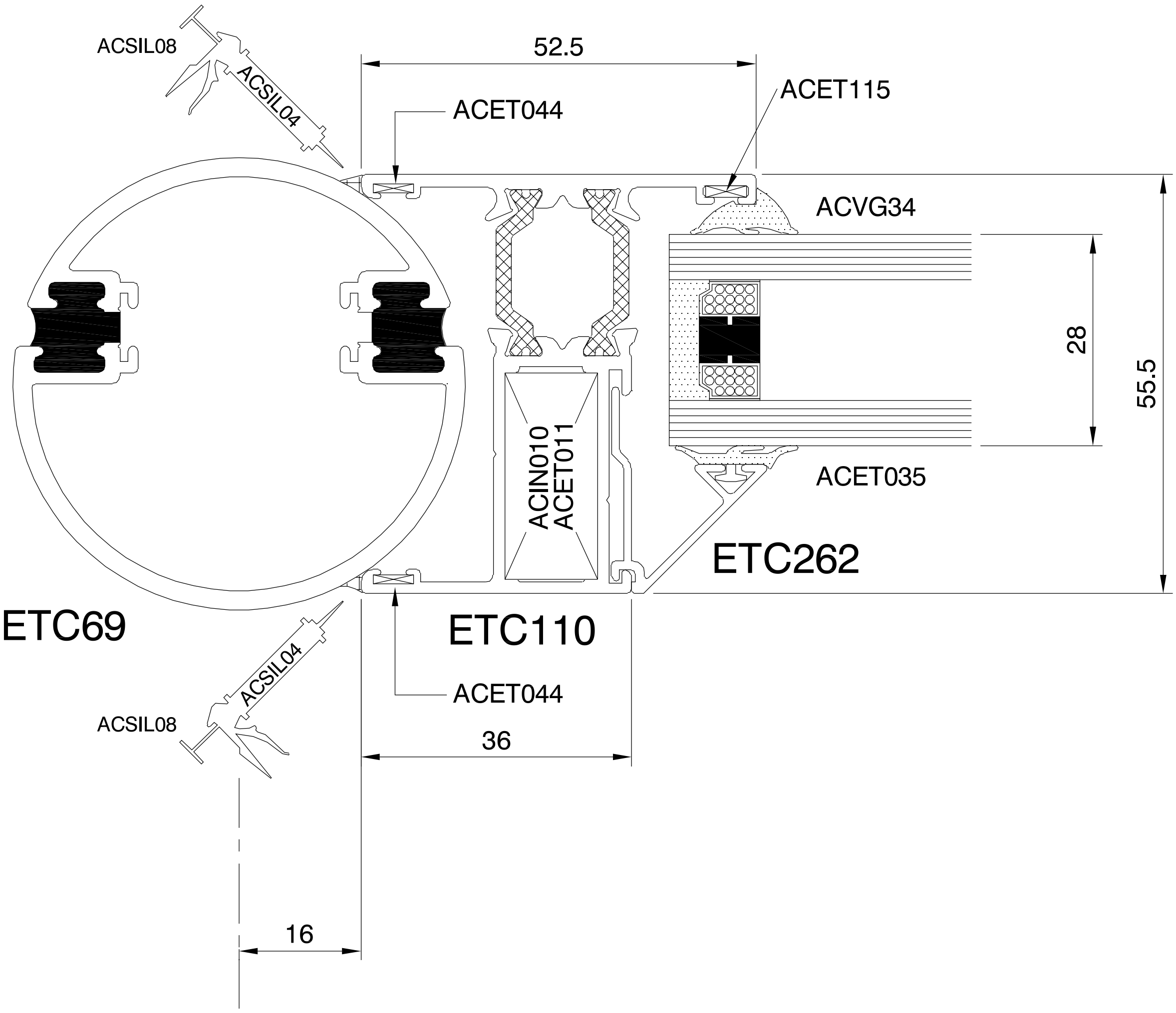
cETC-55-05-01

ALITHERM - 55

SECTION

1E

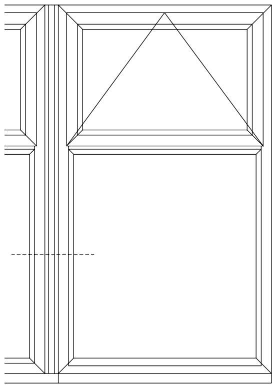


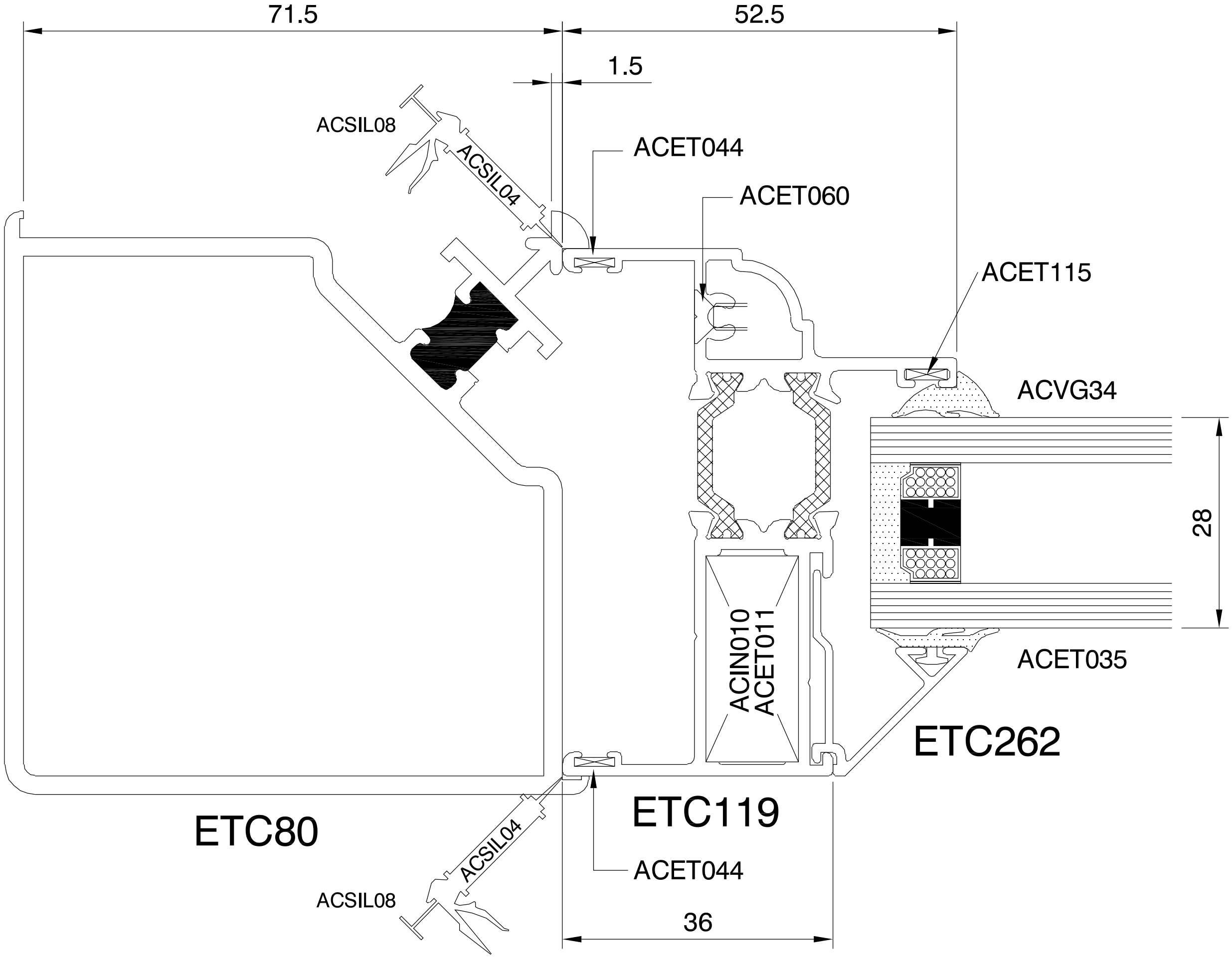


cETC-55-06-01

SECTION

1F

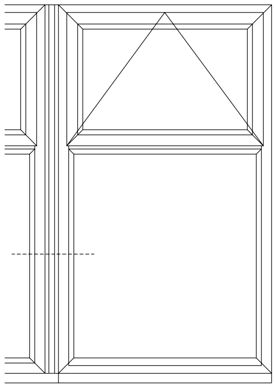


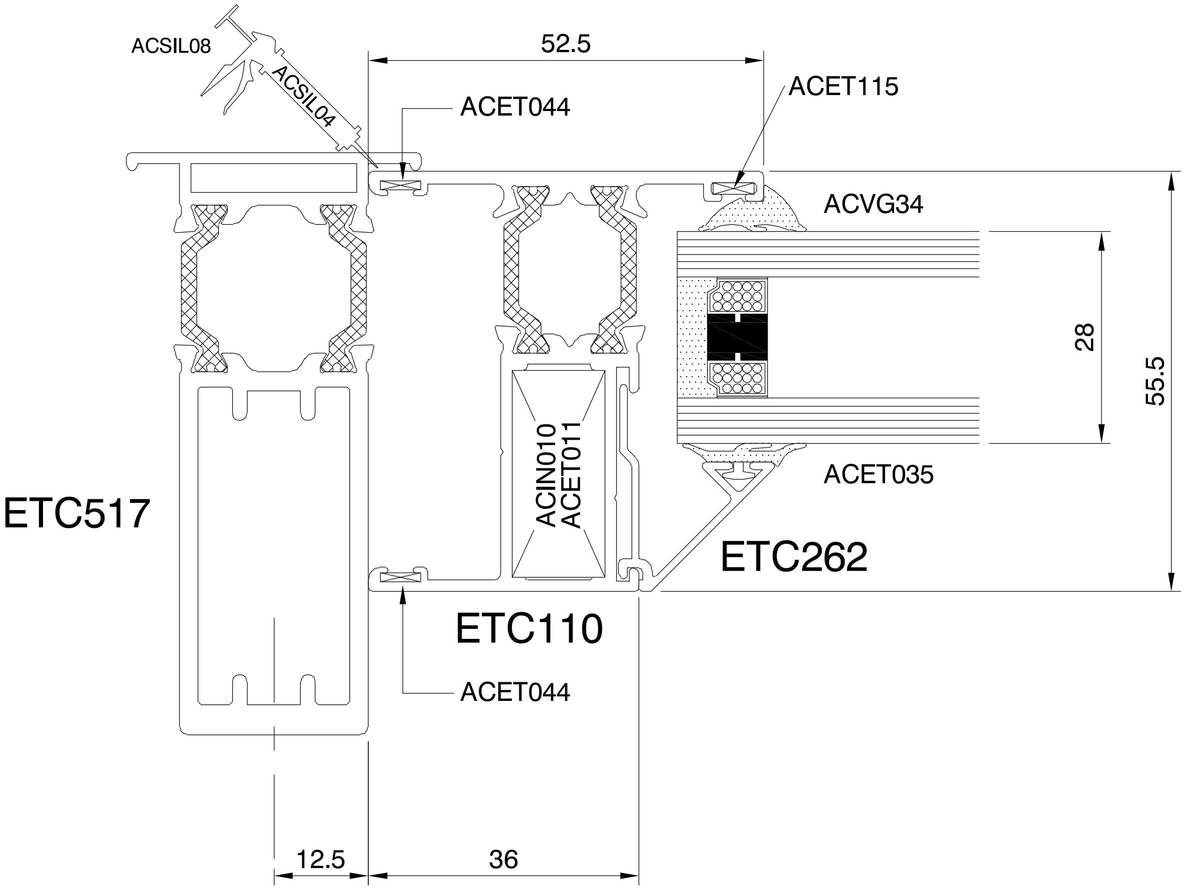


cETC-55-07-01

SECTION

1G





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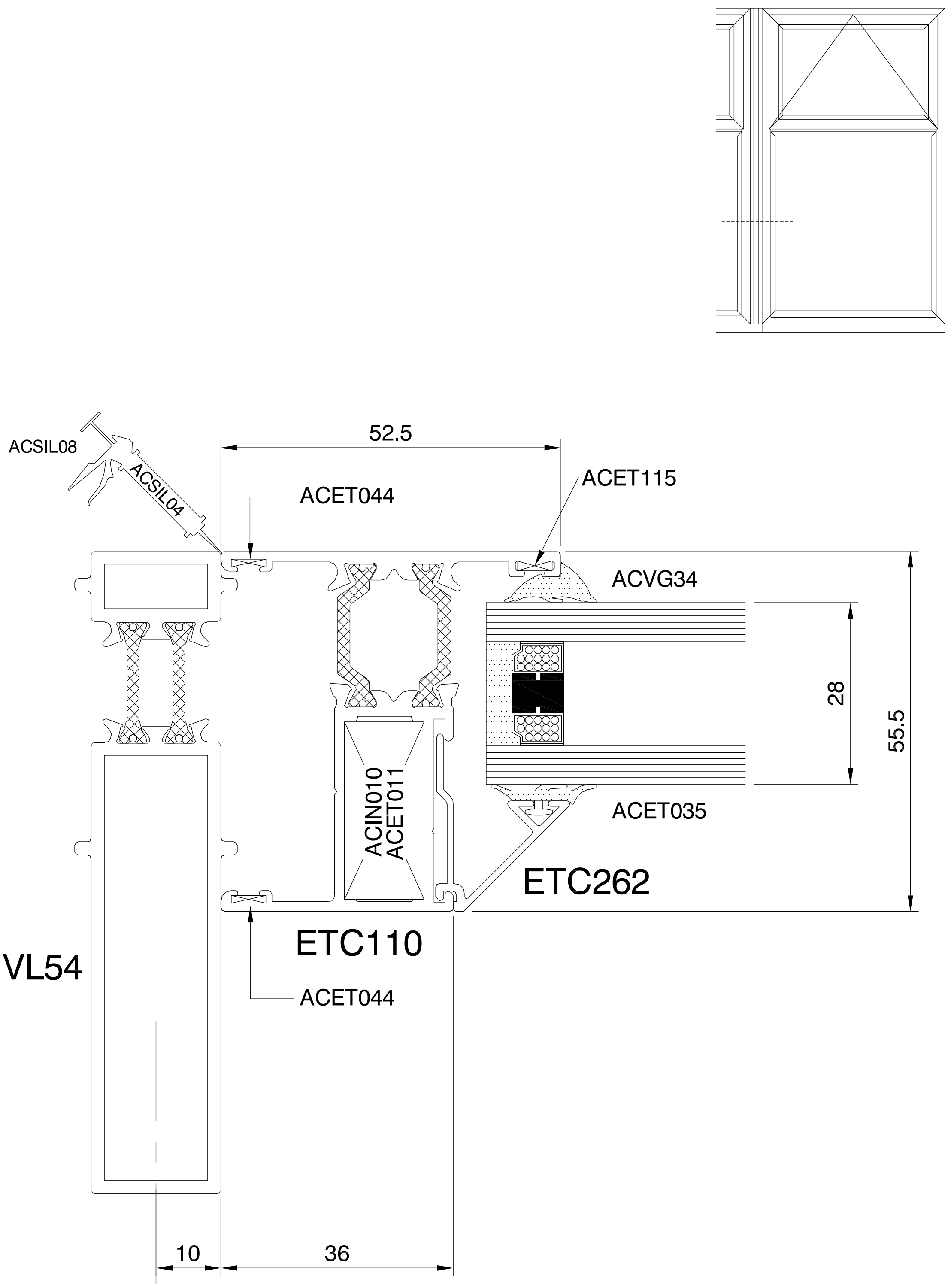
SECTION

1H

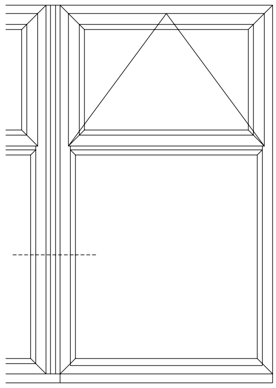


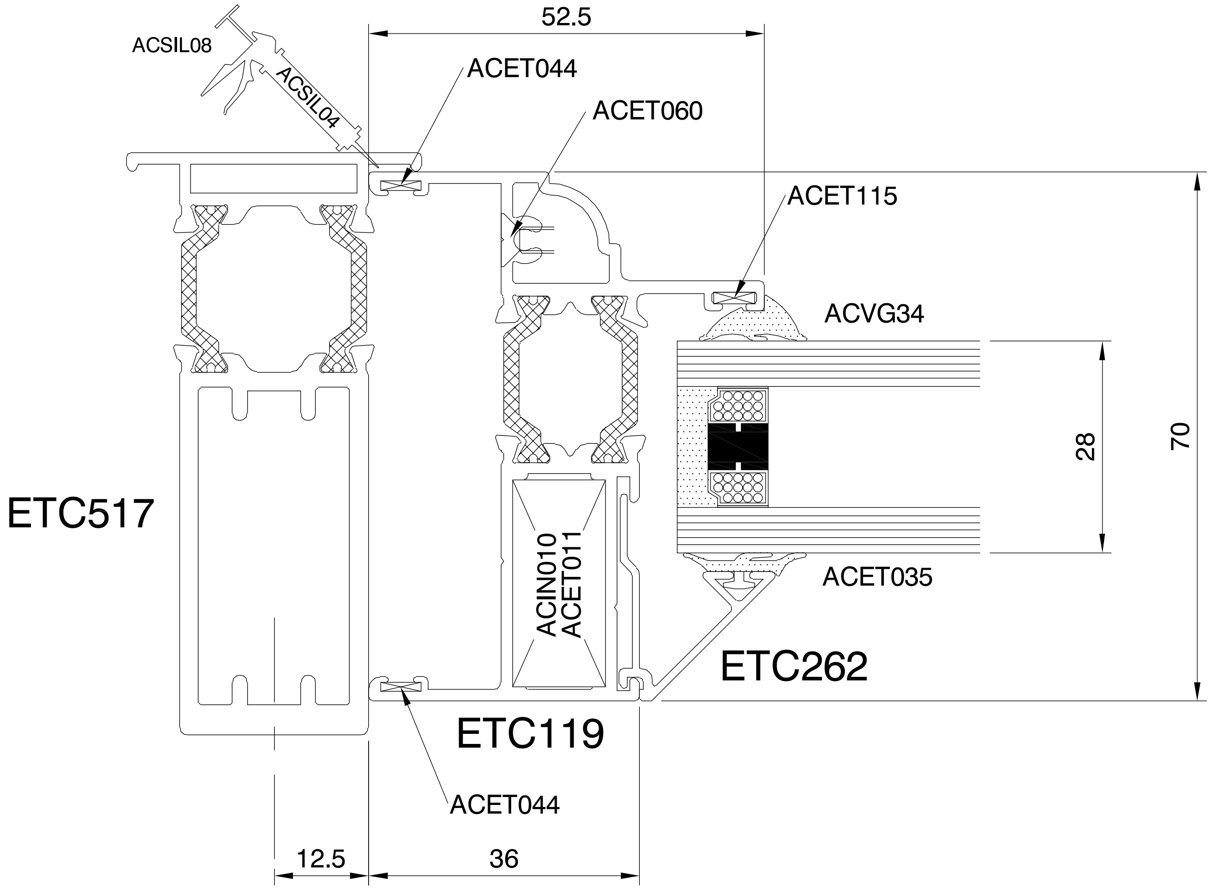
cETC-55-09-01

ALITHERM - 55

SECTION

1l





cETC-55-10-01

SECTION

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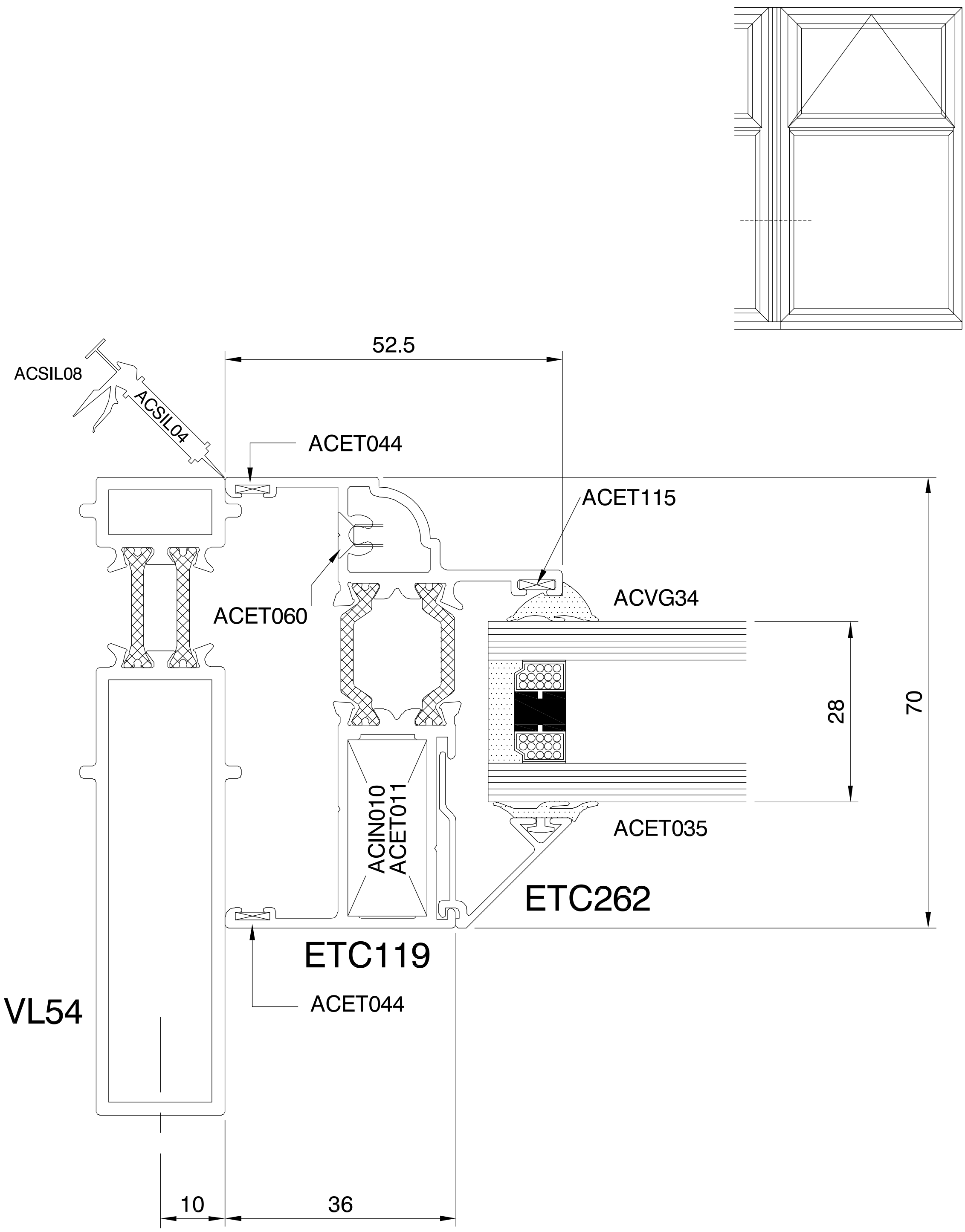
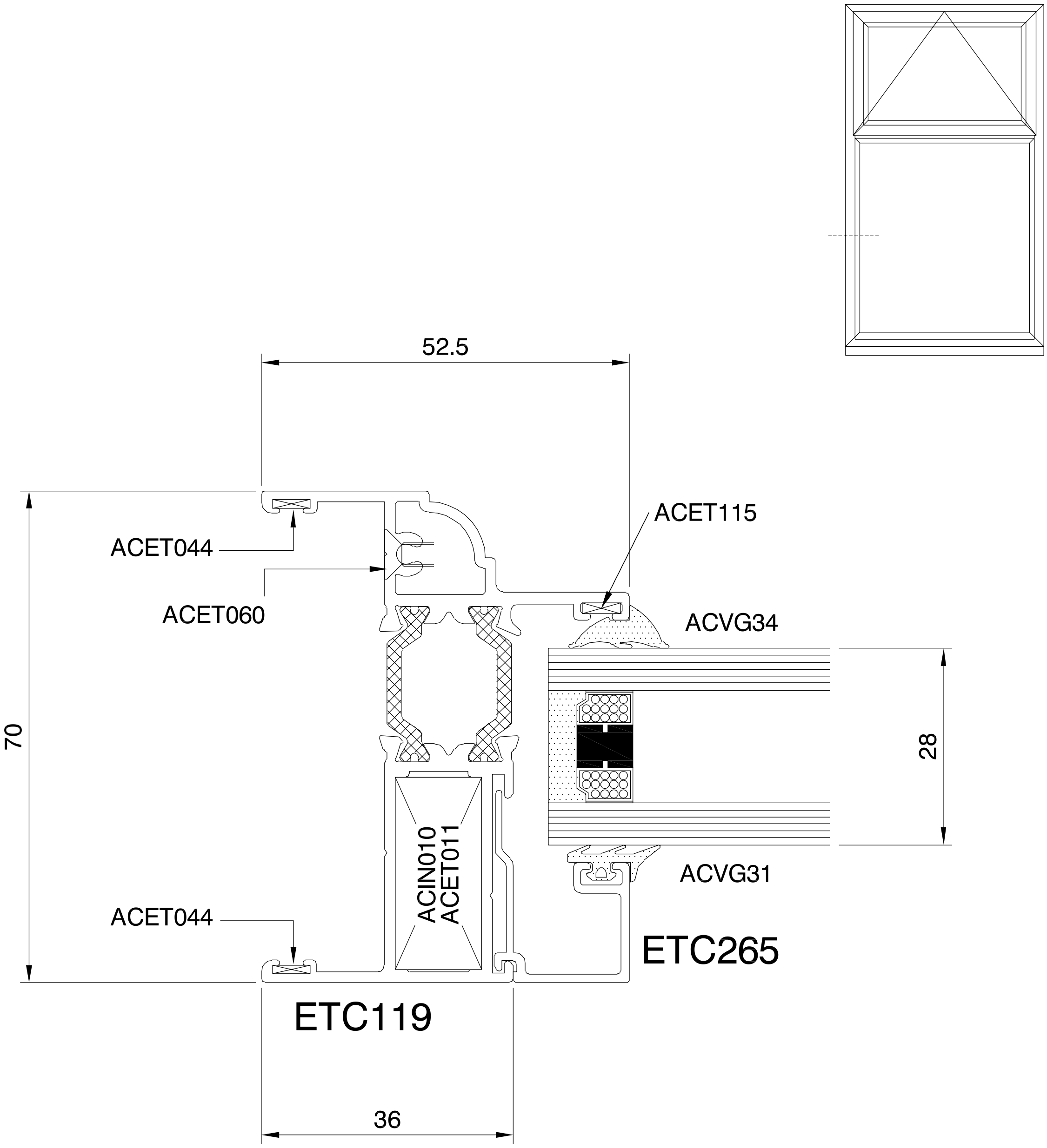


cETC-55-11-01

ALITHERM - 55

SECTION

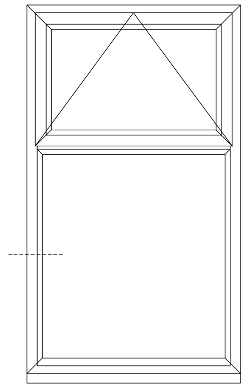
1K

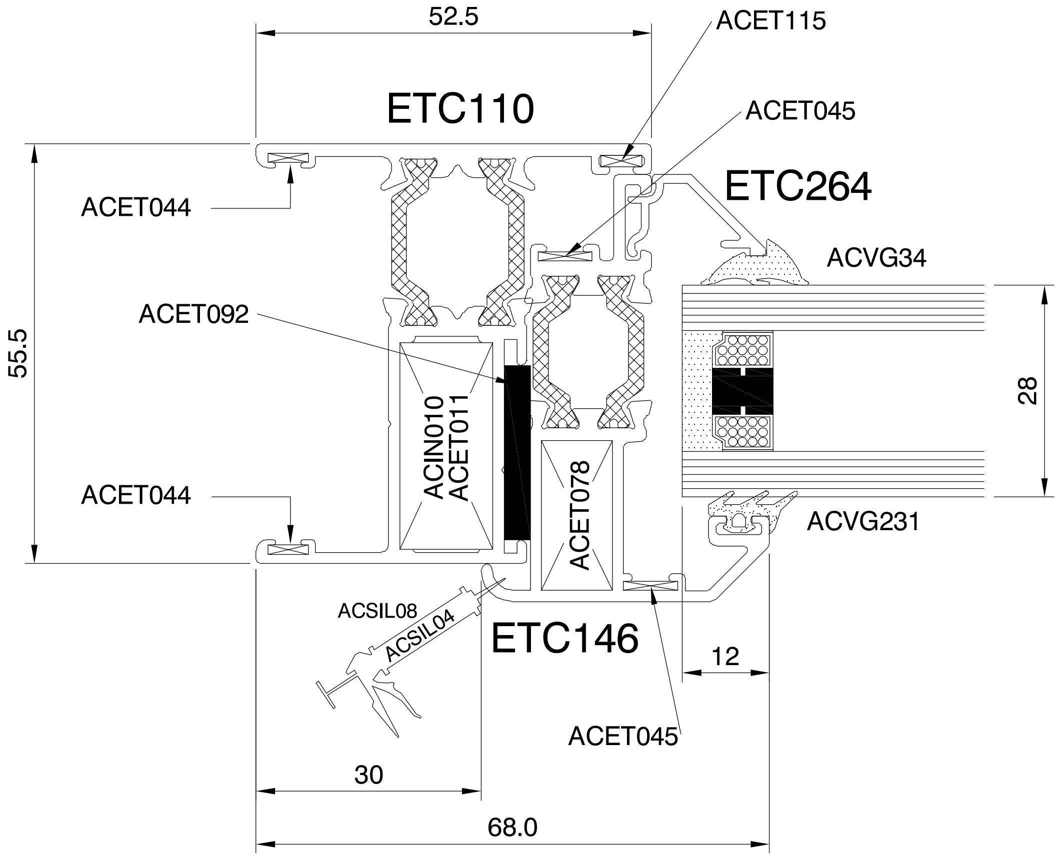


cETC-55-55-01

SECTION

1L



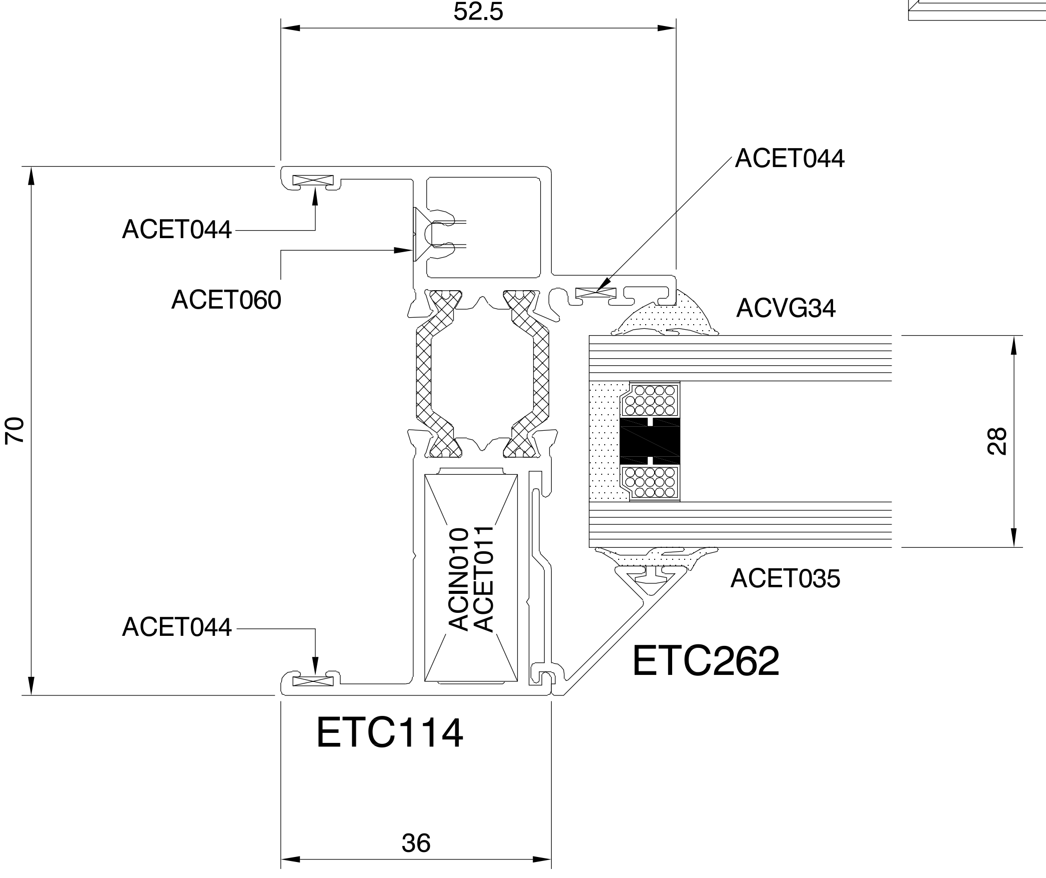


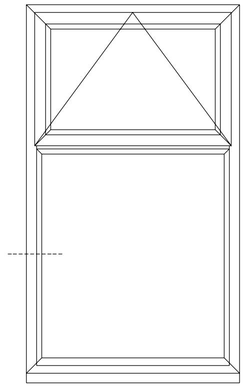
cETC-55-57-01

ALITHERM - 55

SECTION

1M





cETC-55-63-00

SECTION

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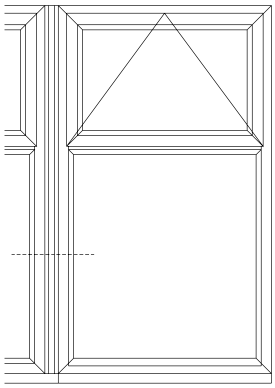
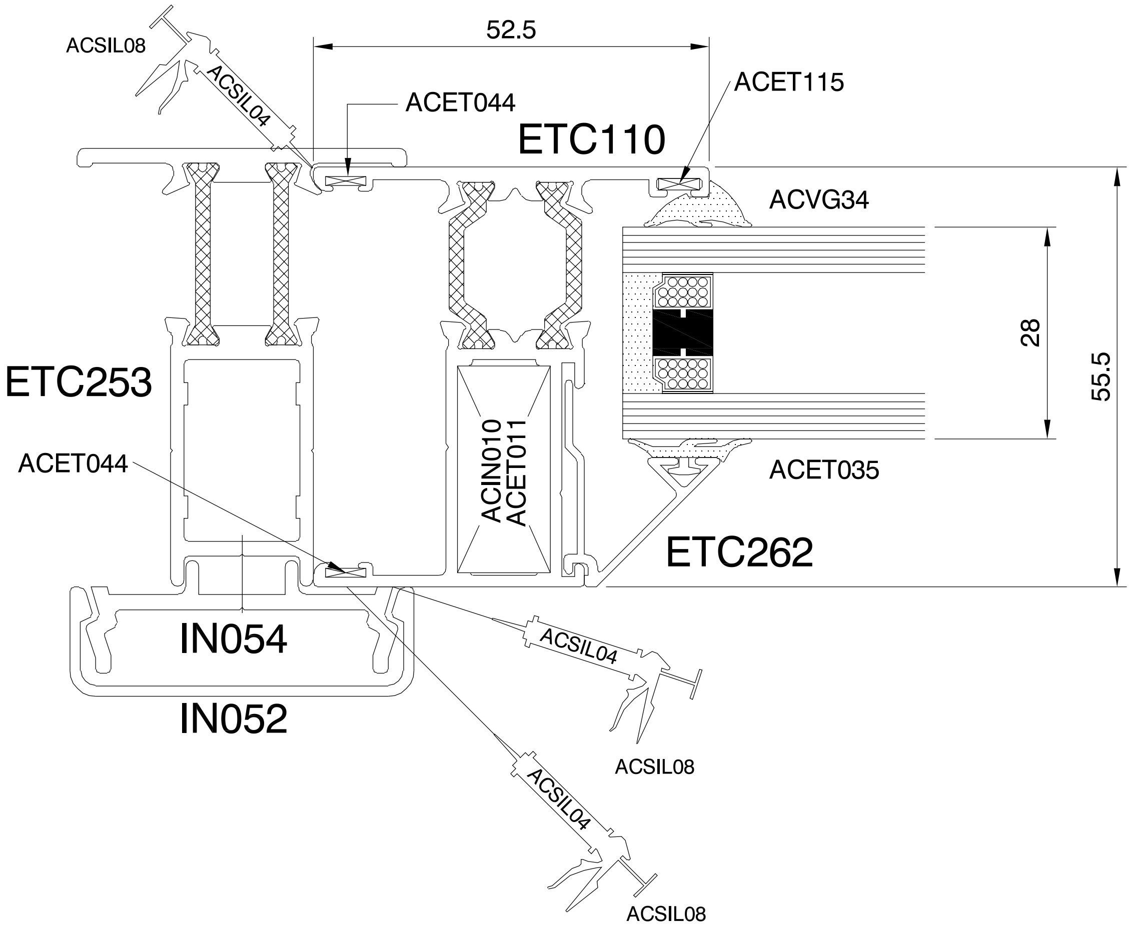
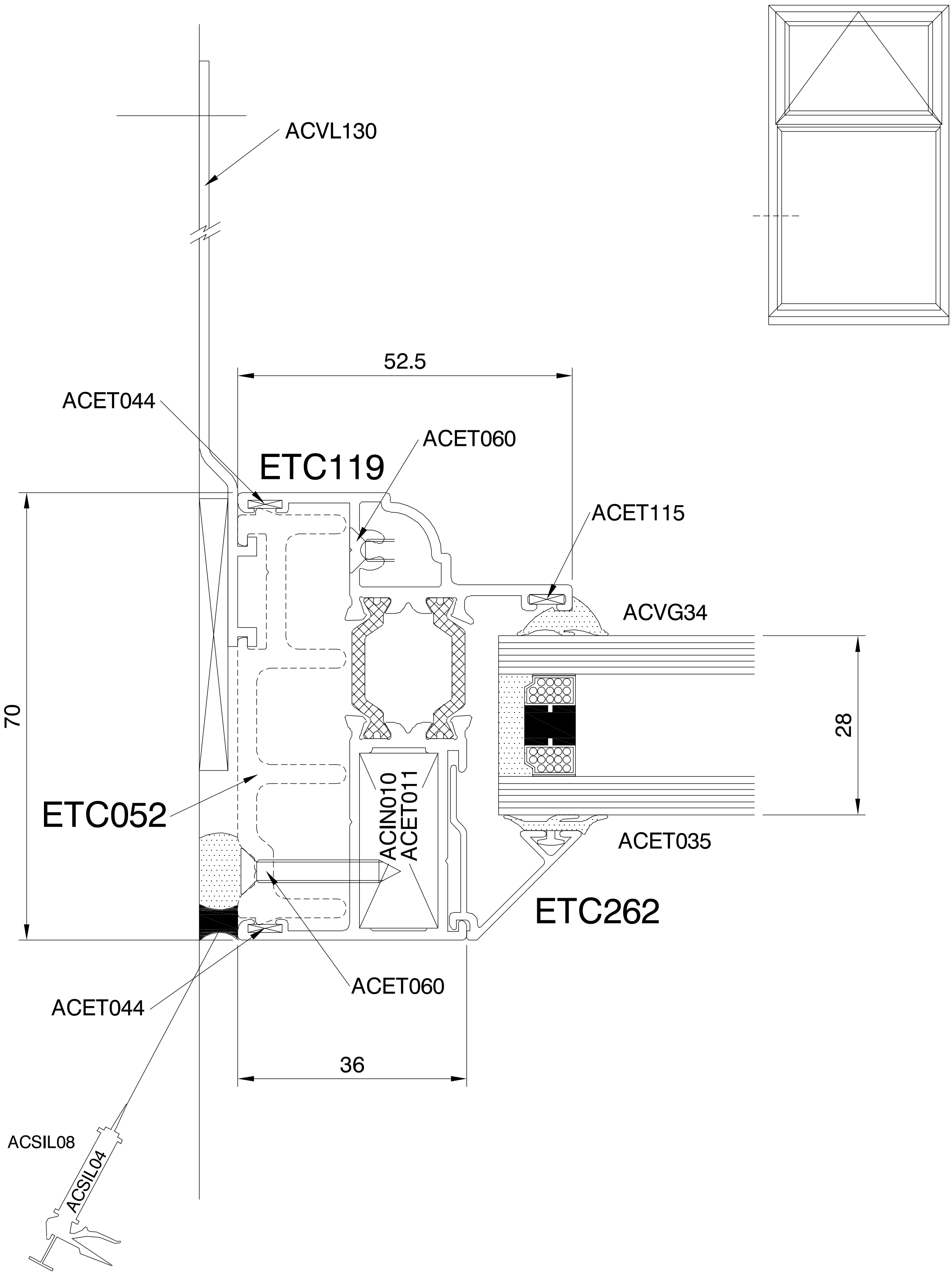




cETC-55-66-00

SECTION

1O



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SECTION

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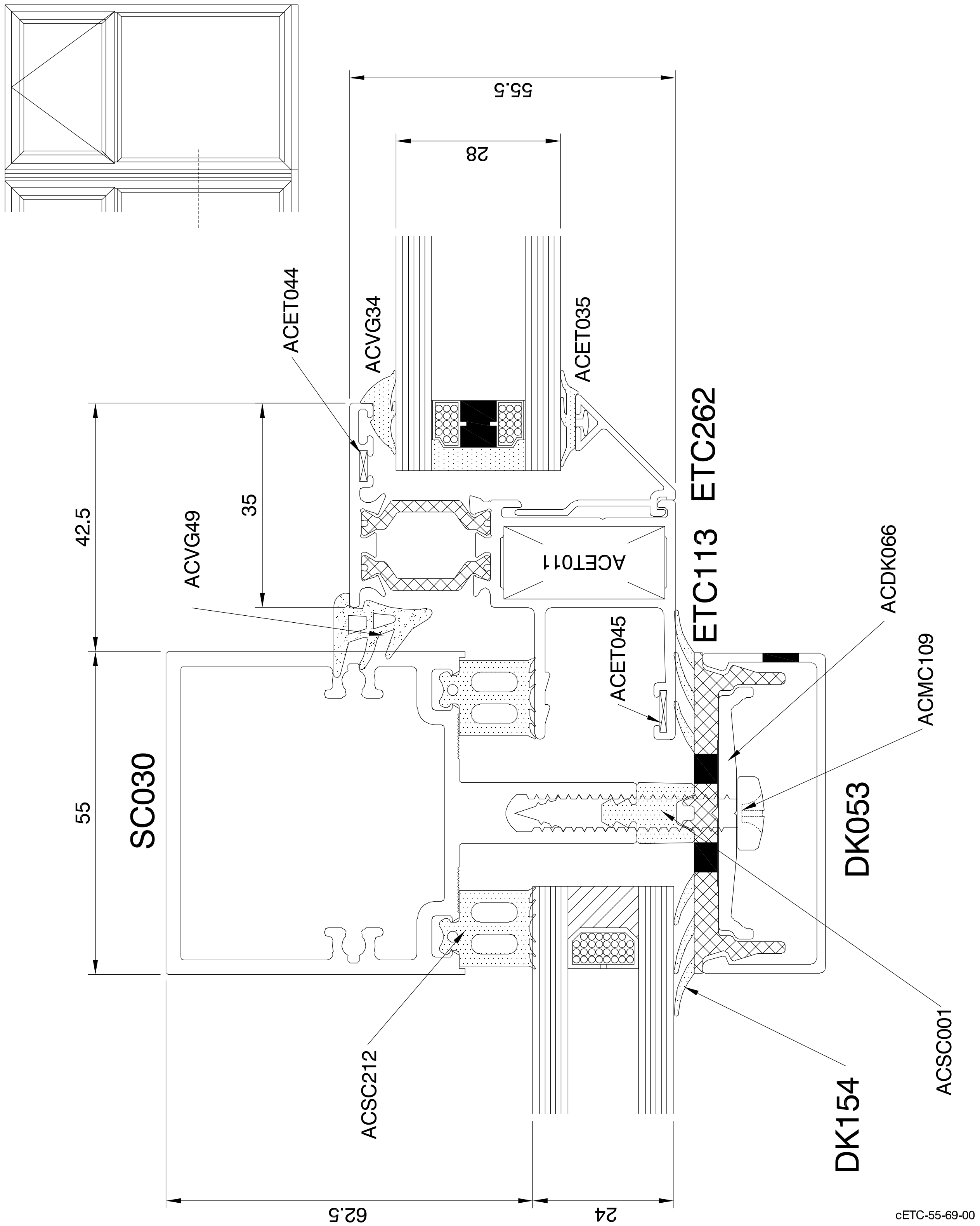
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DK154
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cETC-55-69-00

SECTION

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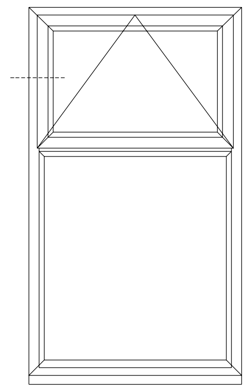
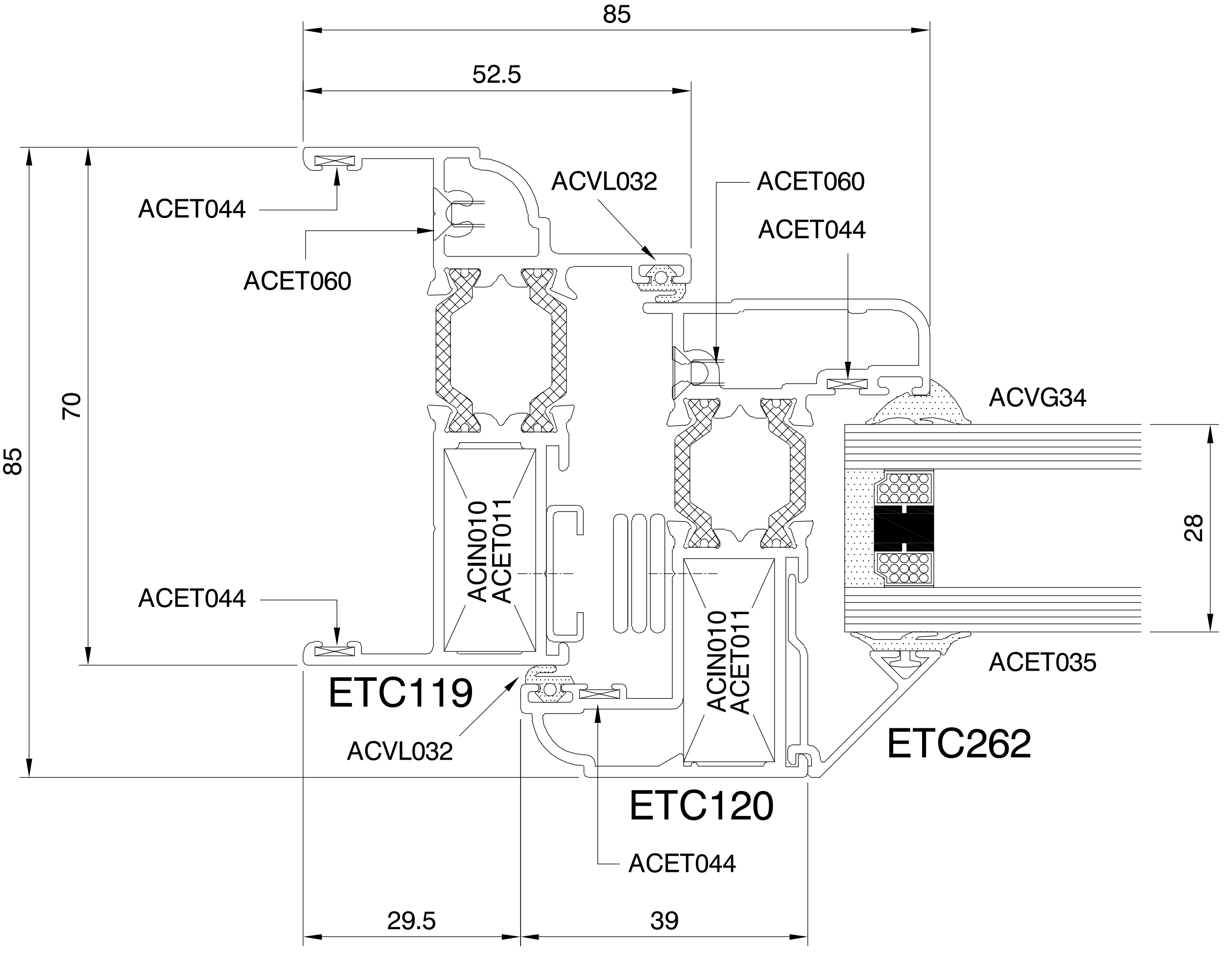
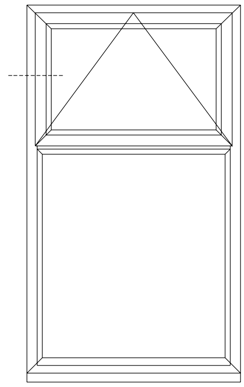


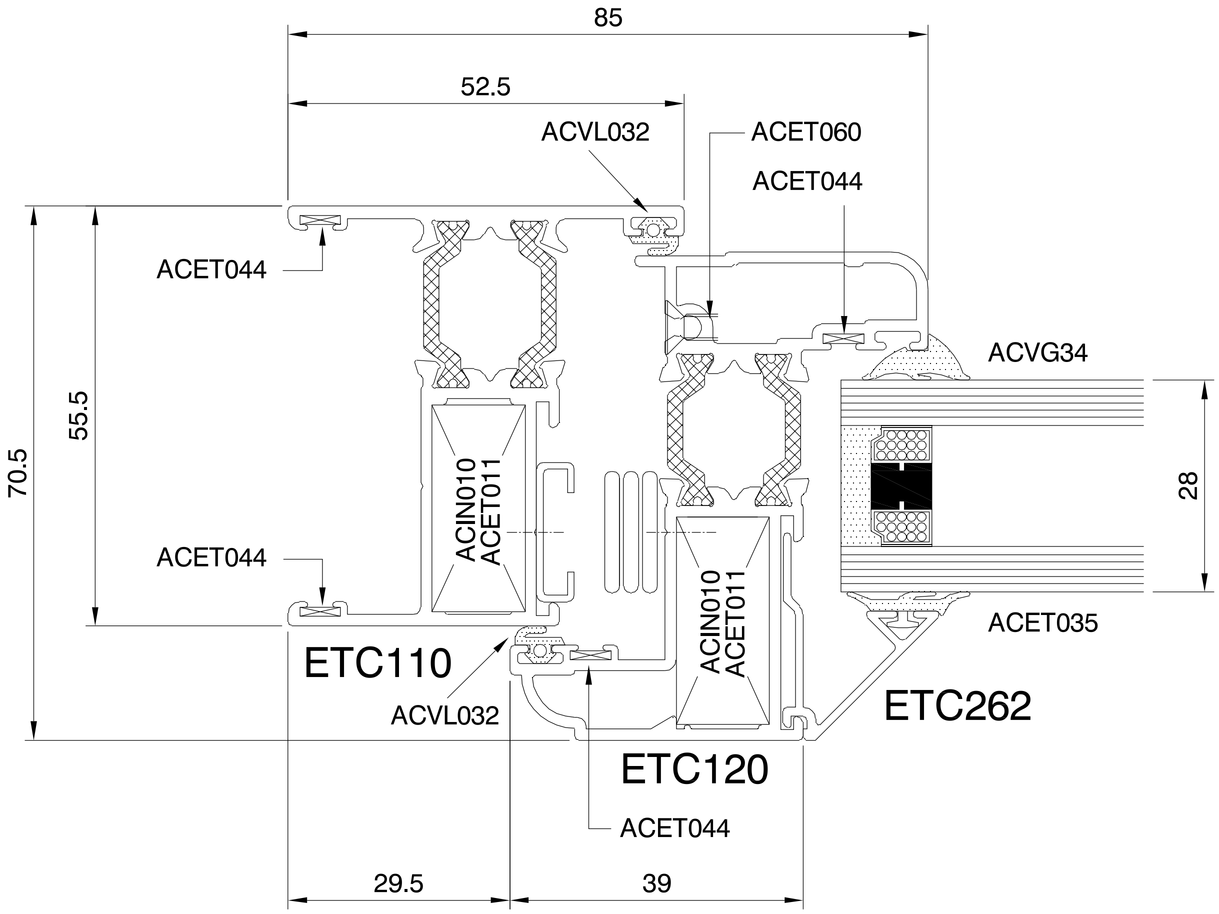


cETC-55-12-01

SECTION

2B



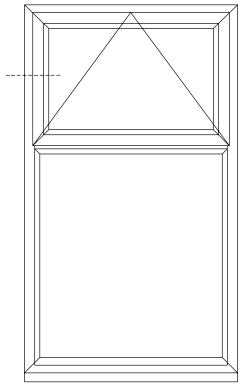


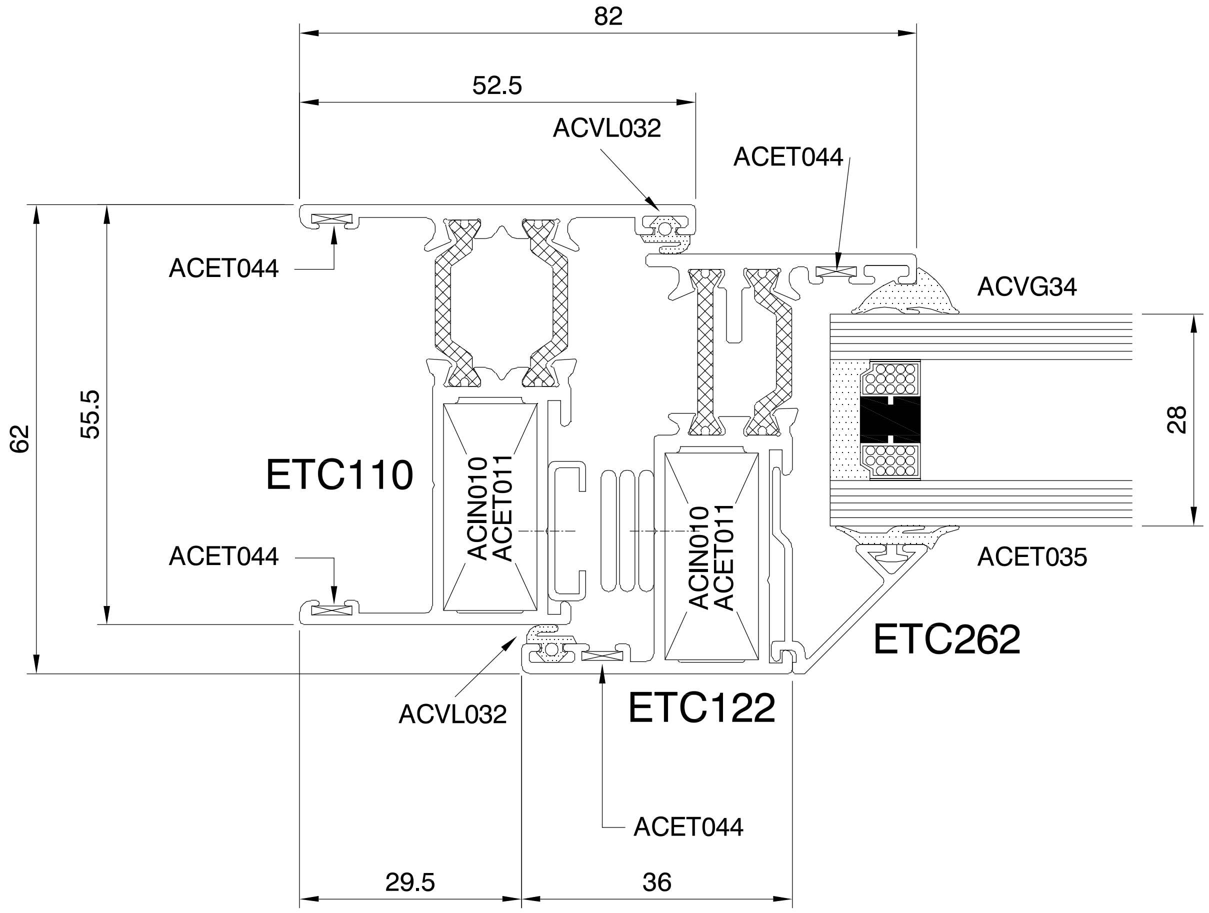
cETC-55-13-00

ALITHERM - 55

SECTION

2C





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SECTION

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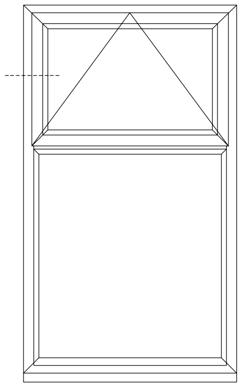

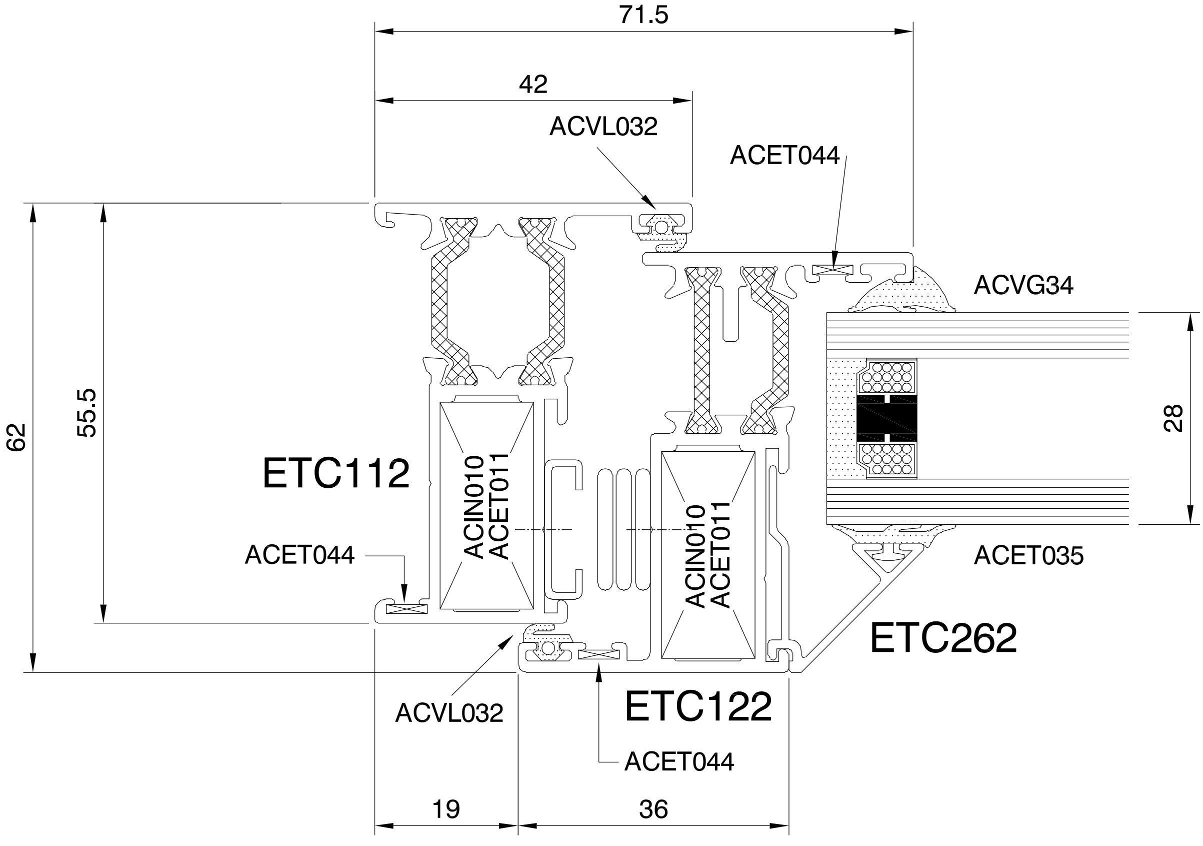

cETC-55-15-01

SECTION

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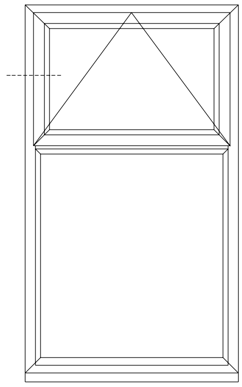

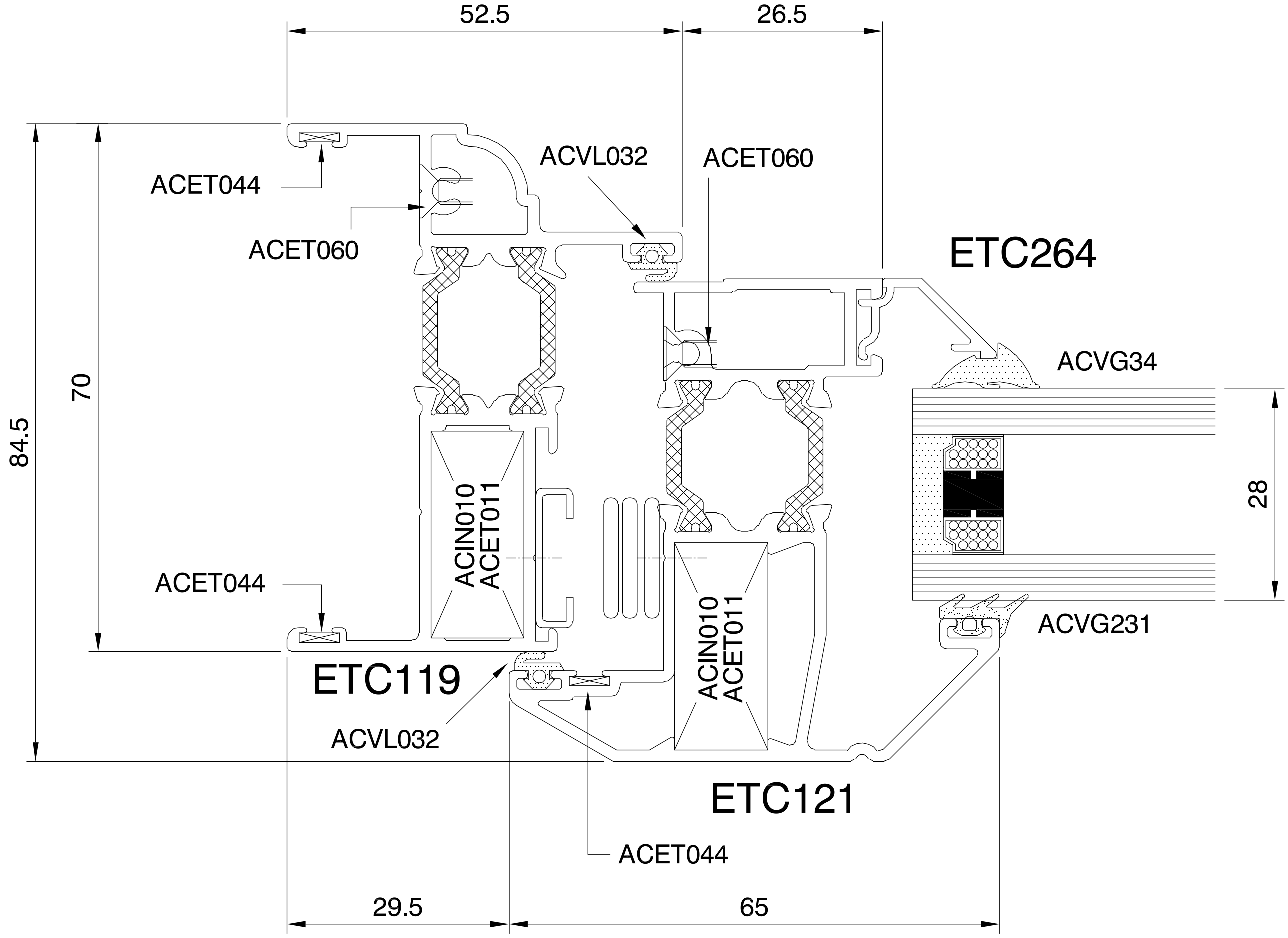

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SECTION

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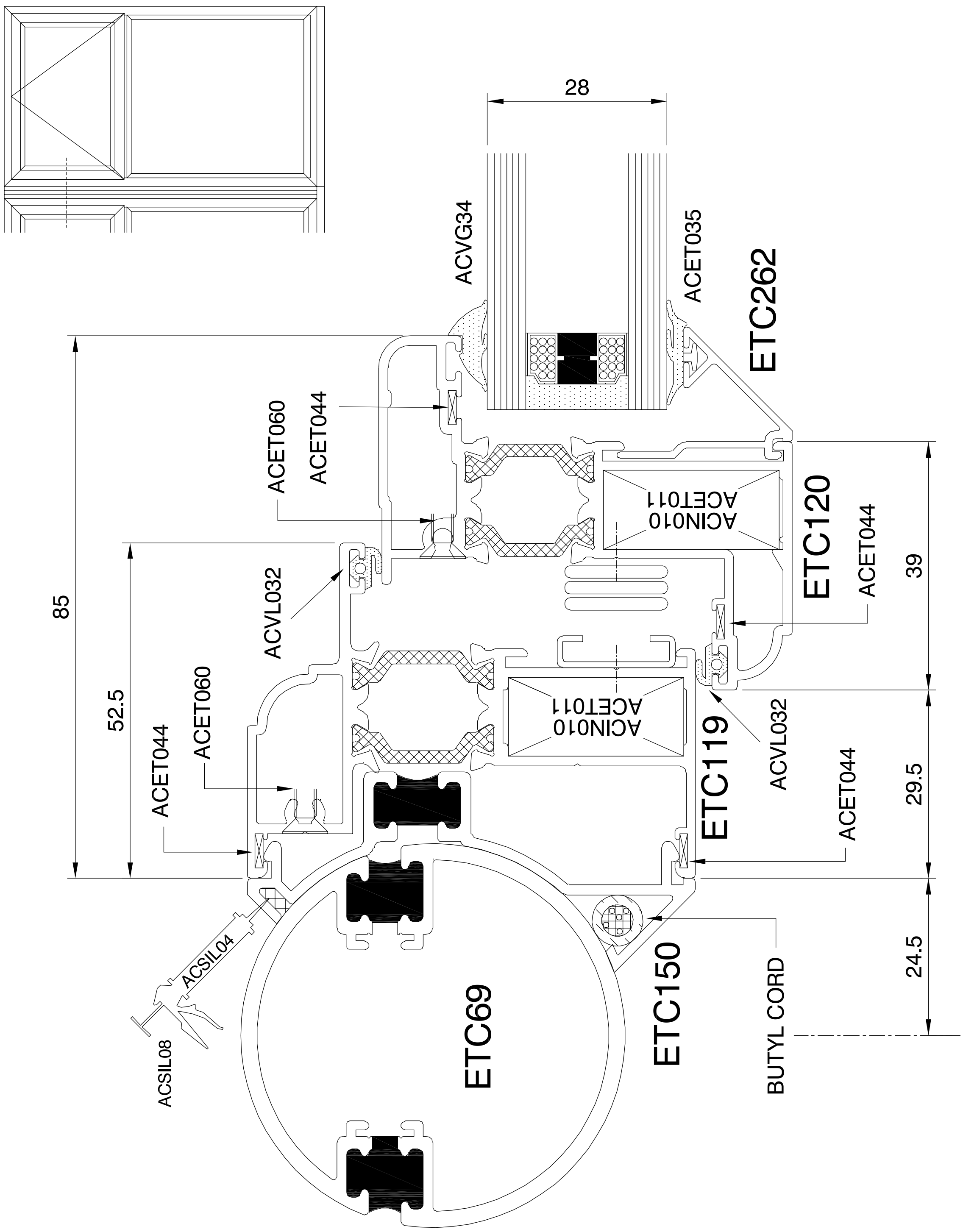
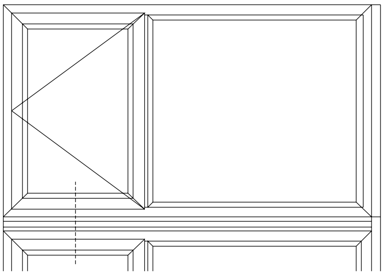
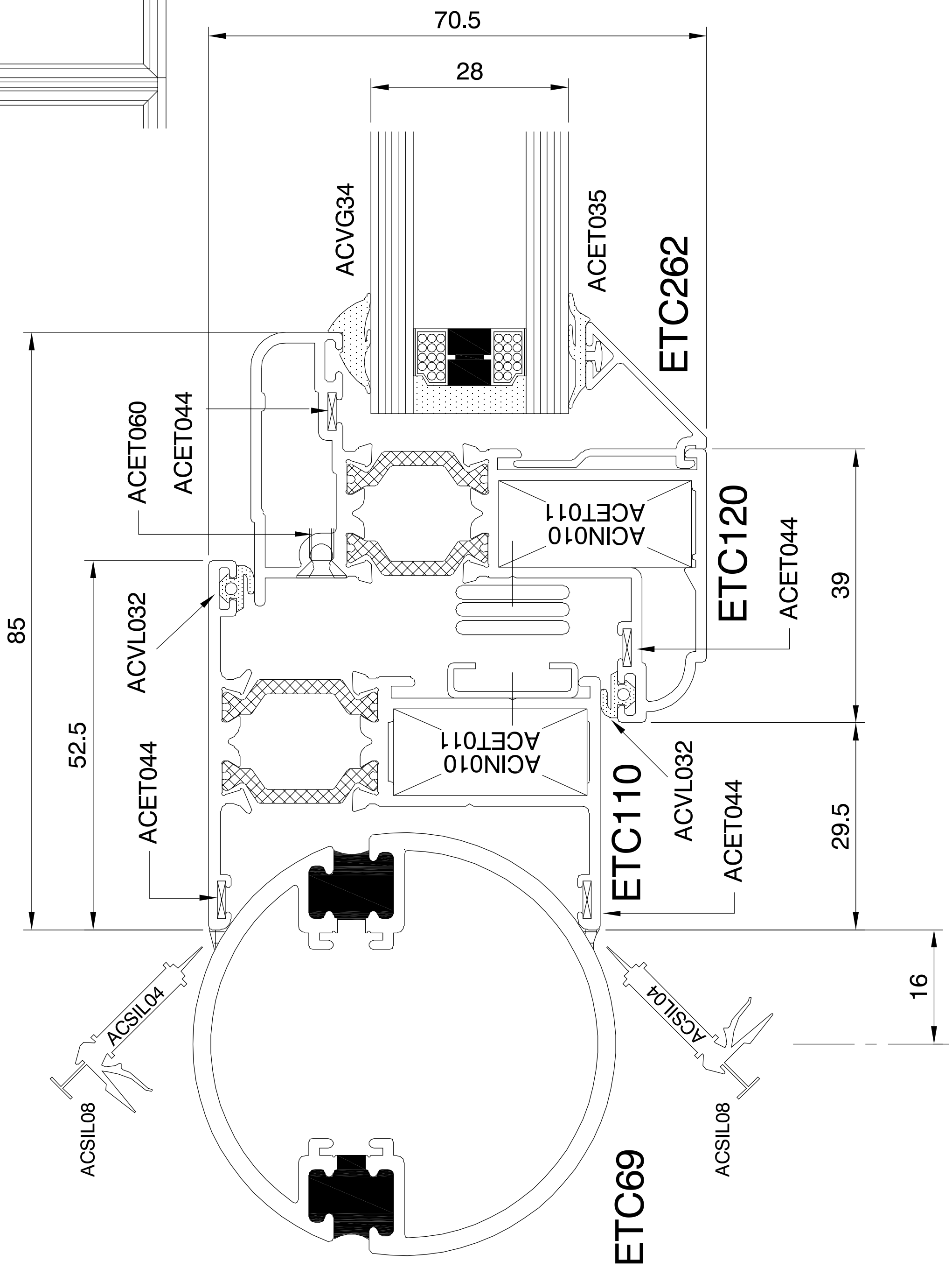


cETC-55-17-00

SECTION

2G

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ACIN010
ETC110
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ACSIL08
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cETC-55-18-00

SECTION

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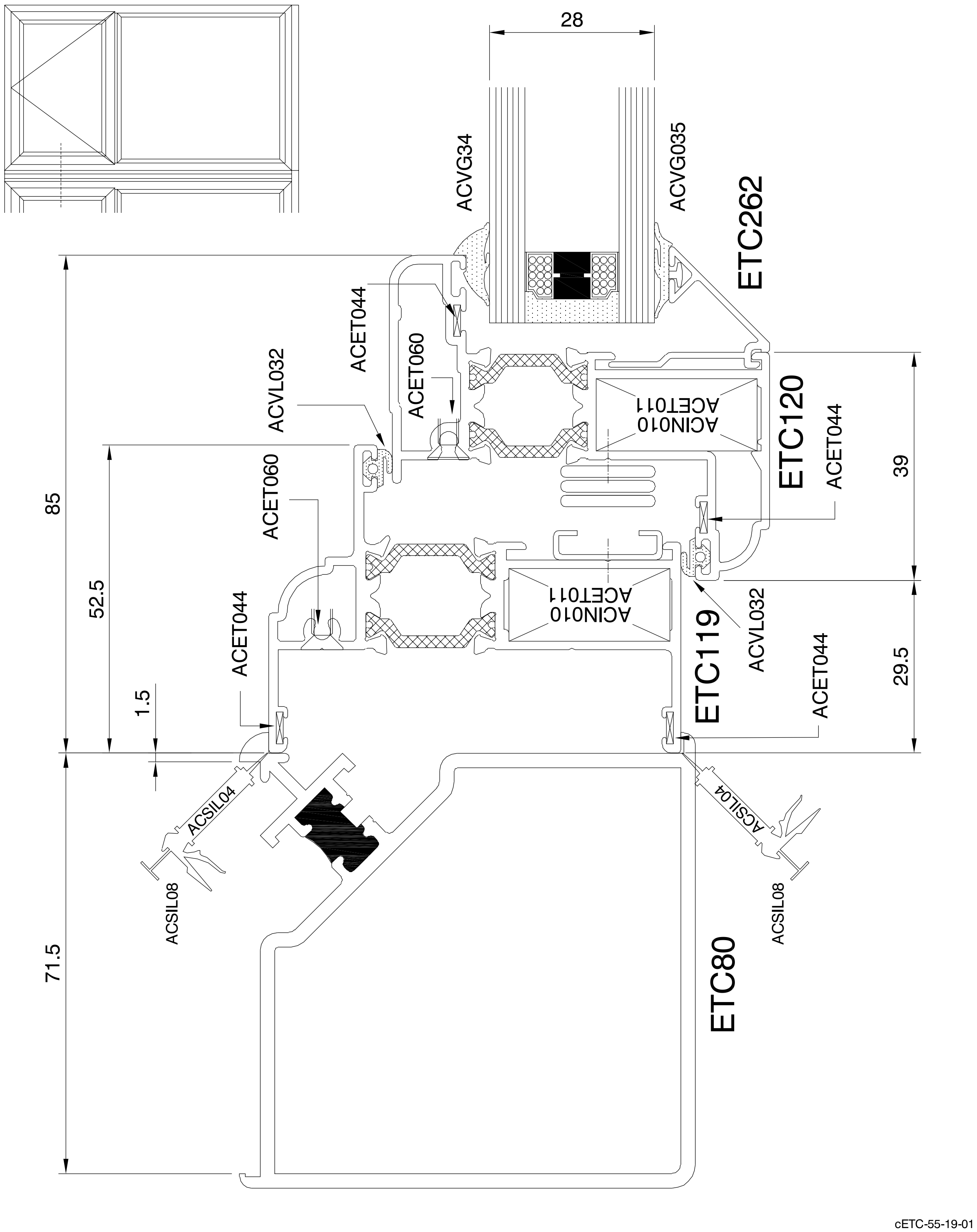

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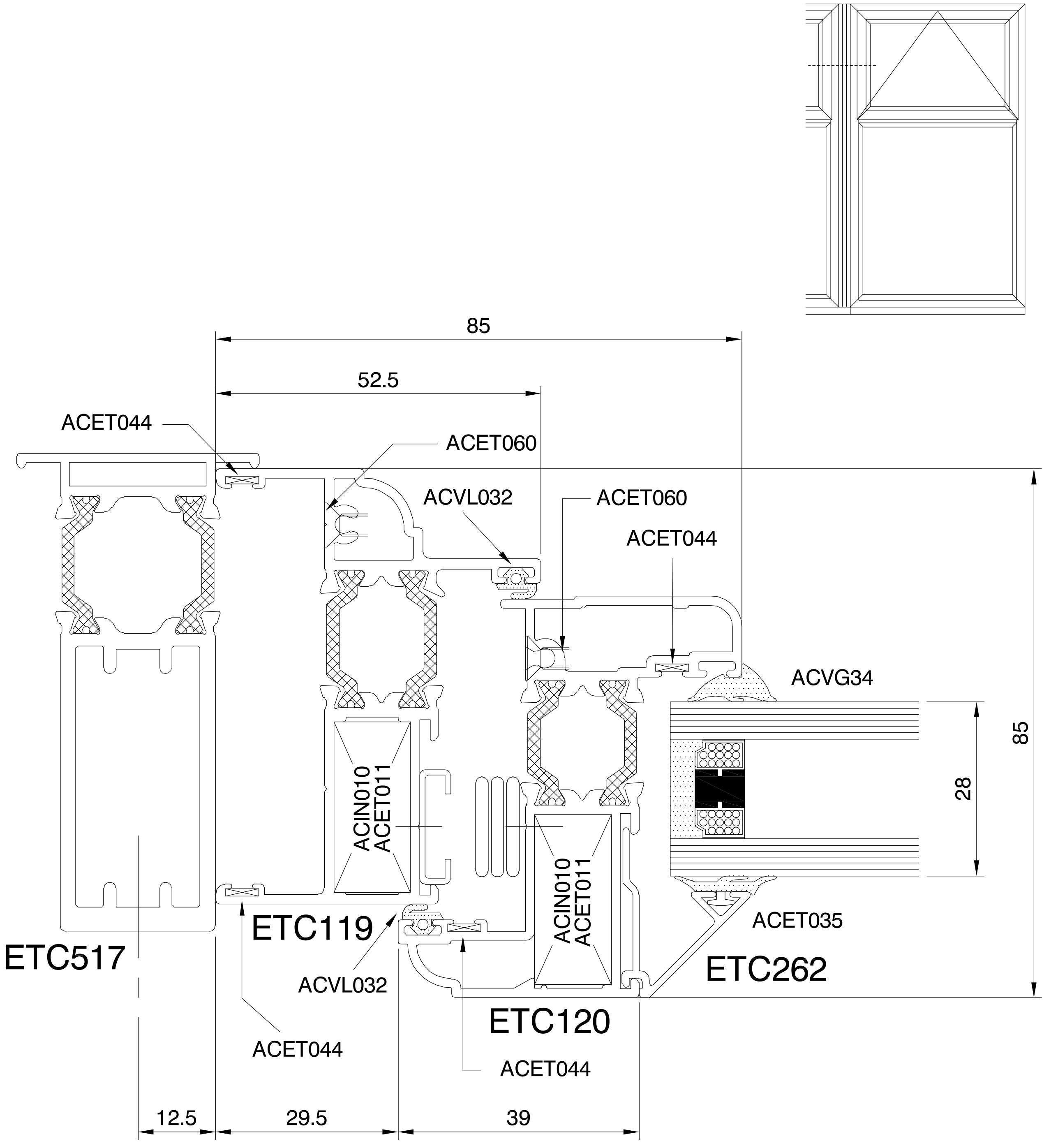

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SECTION

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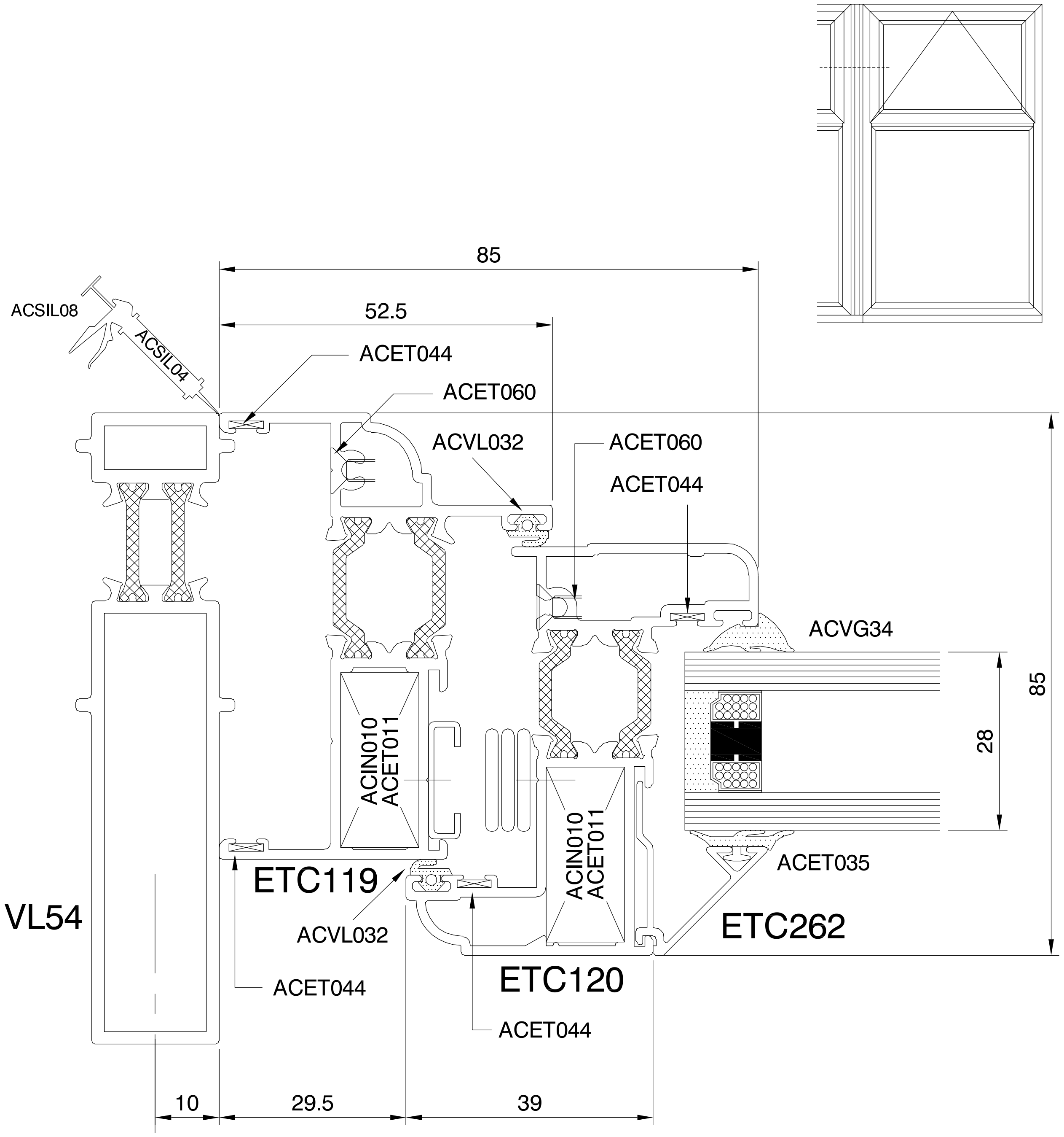

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SECTION

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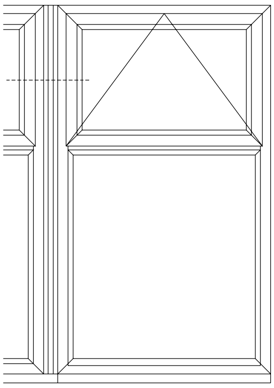

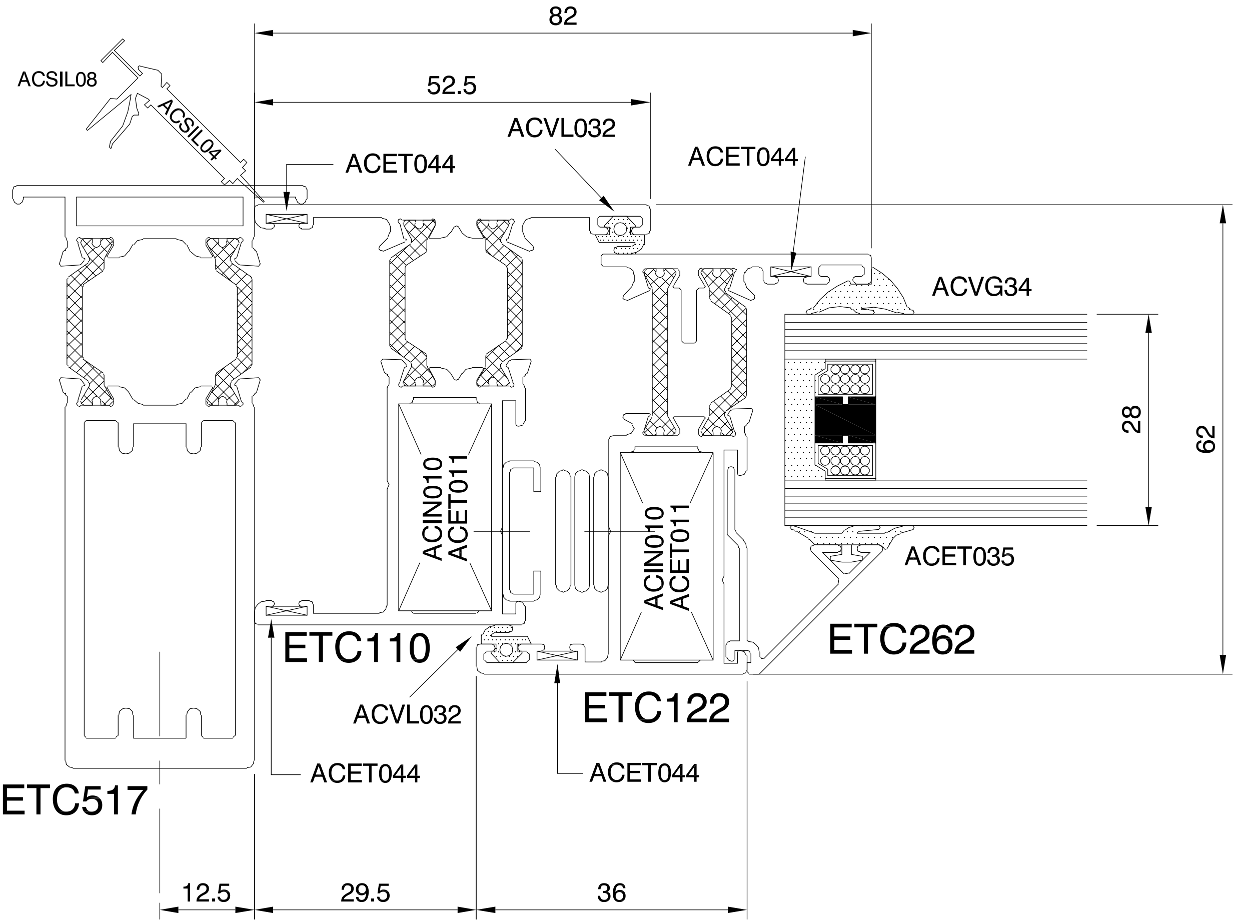

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SECTION

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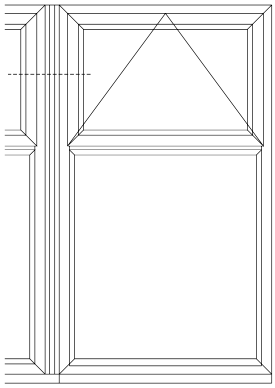
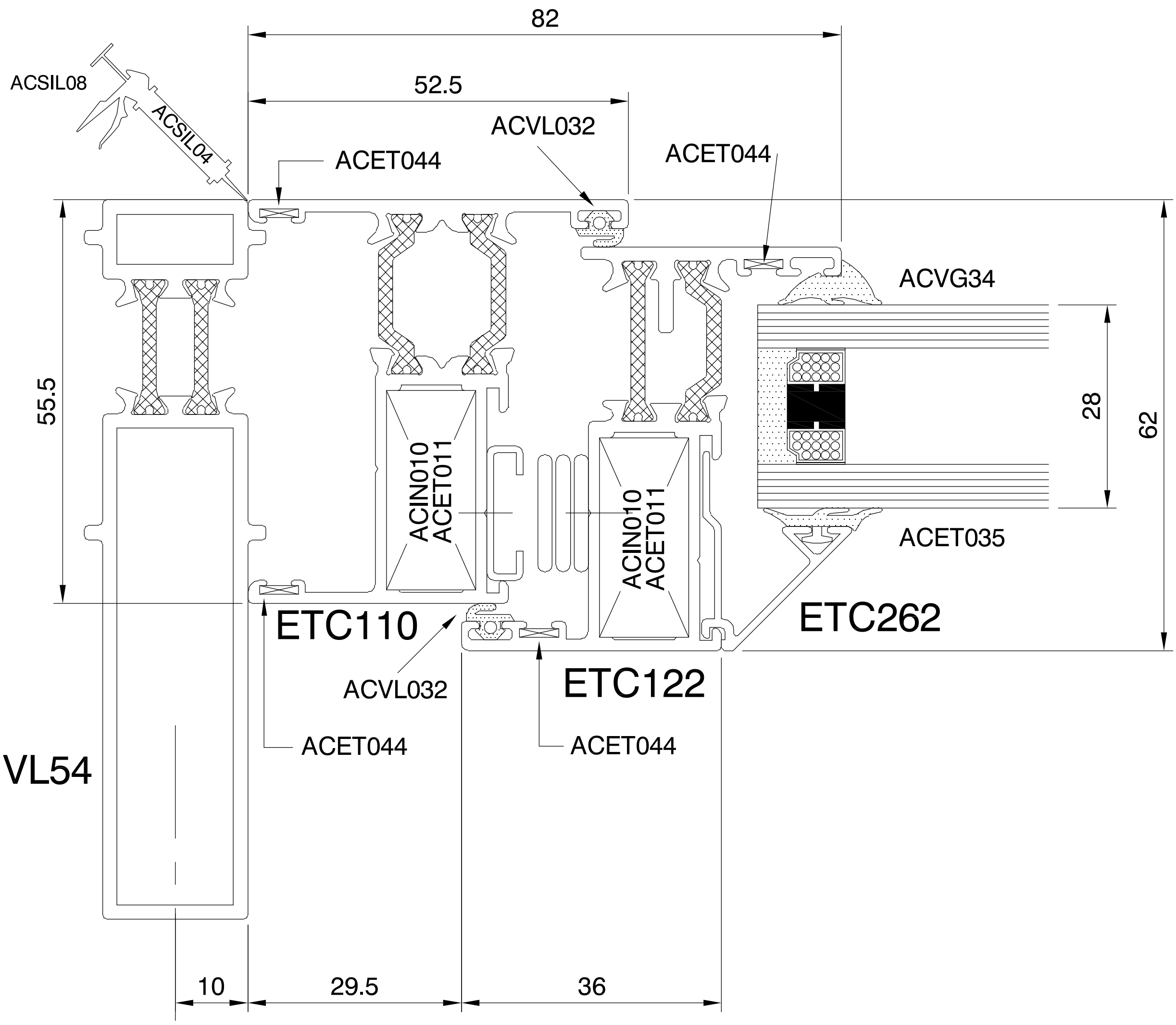


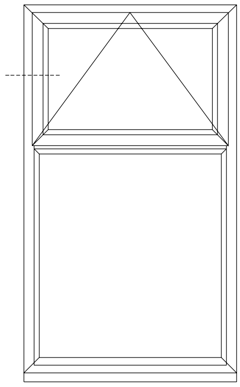


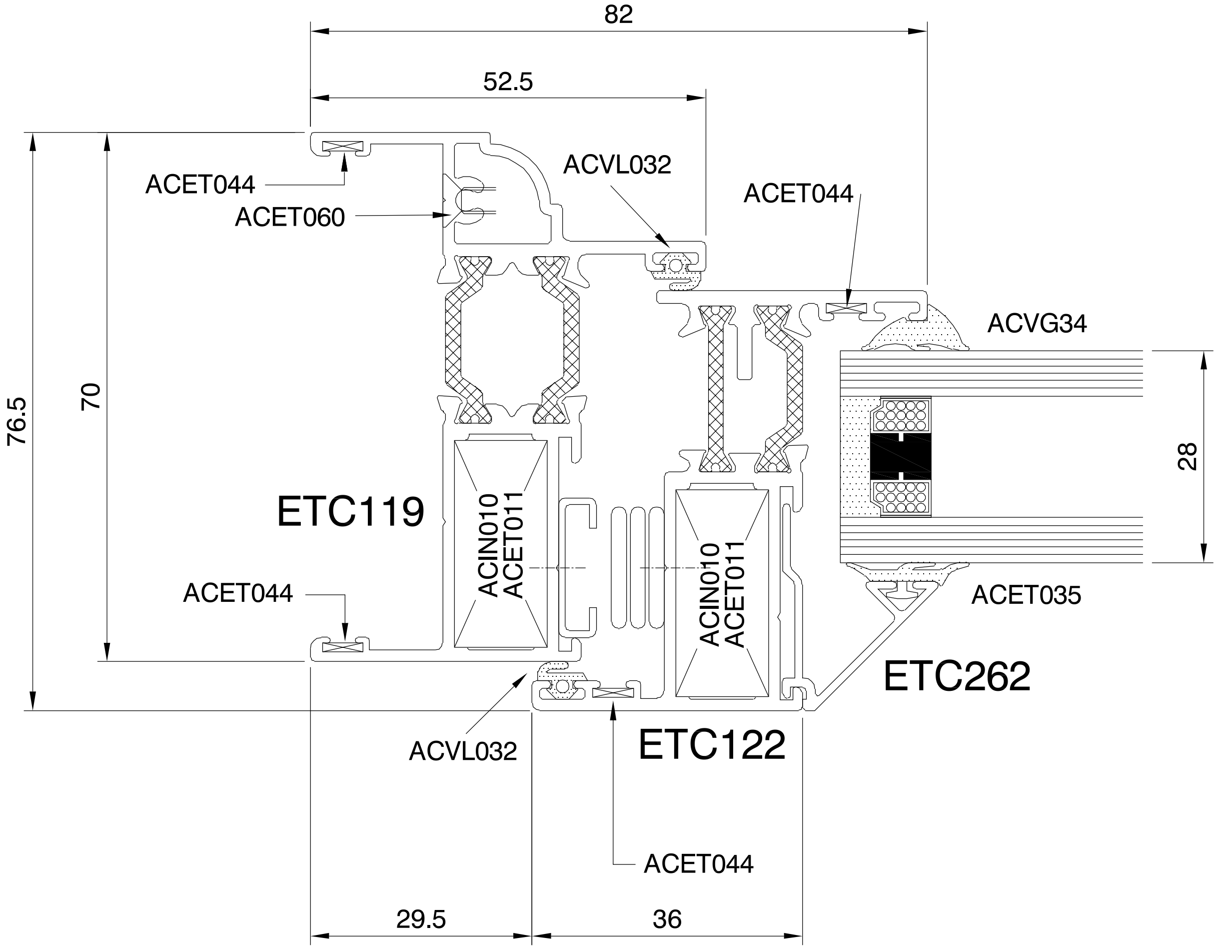
cETC-55-23-02

ALITHERM - 55

SECTION

2M

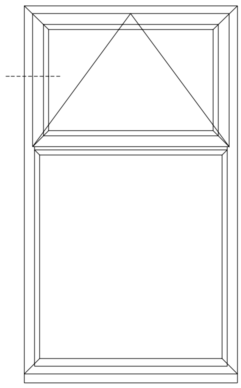


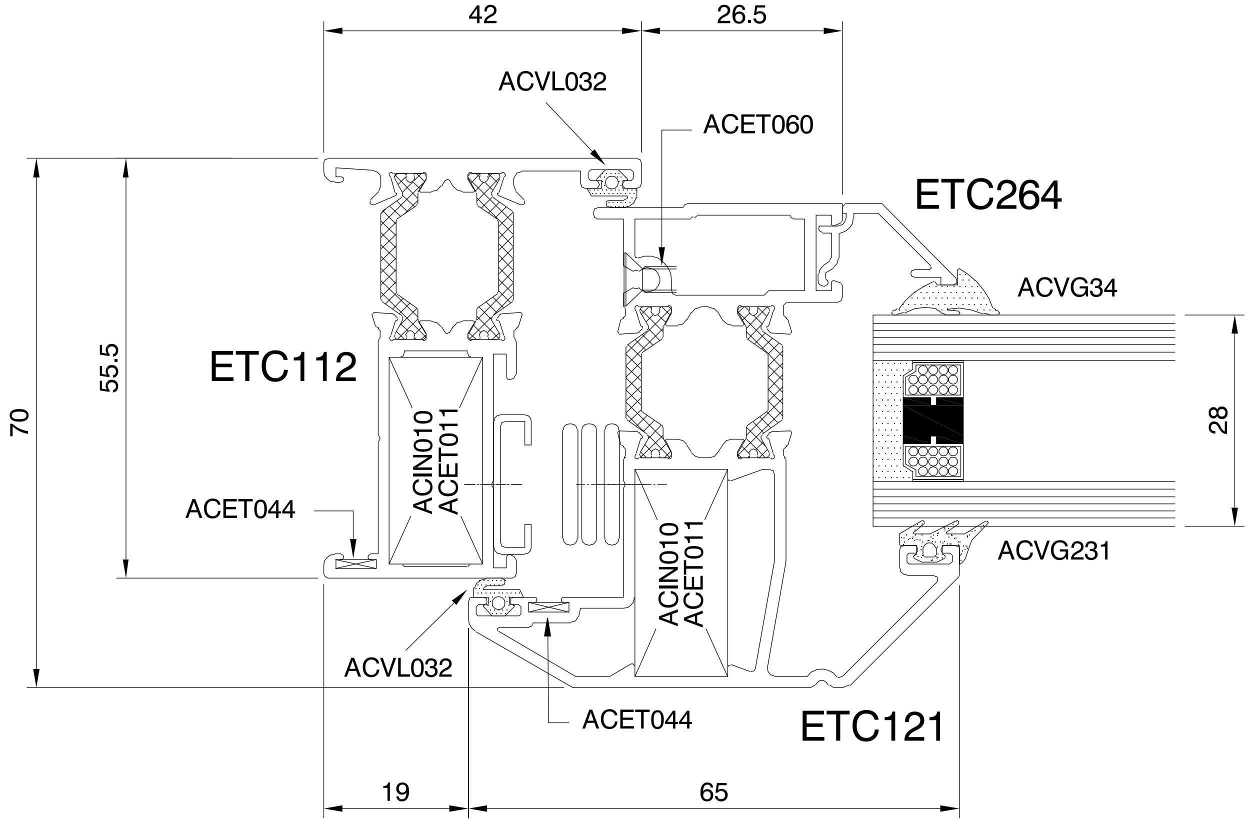


cETC-55-48-01

SECTION

2N





cETC-55-53-02

SECTION

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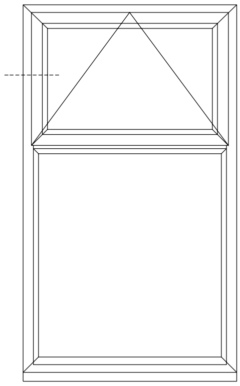
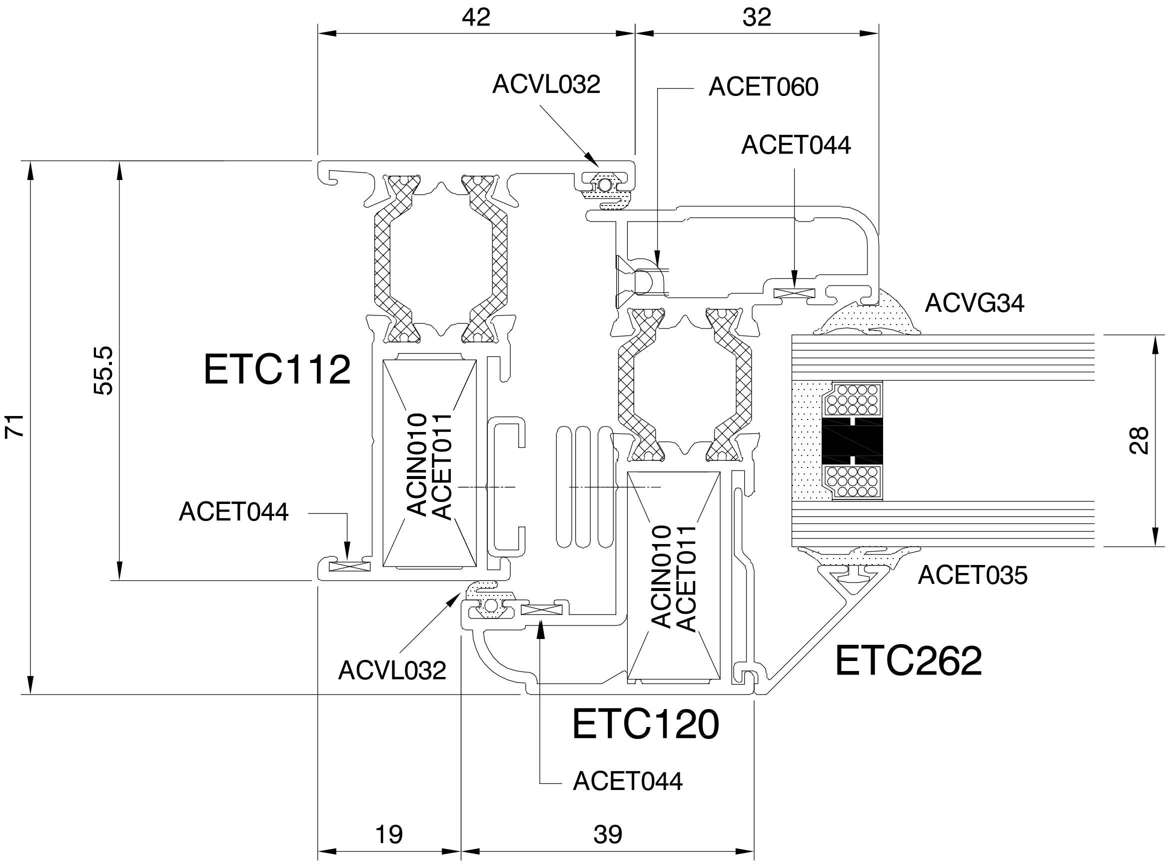
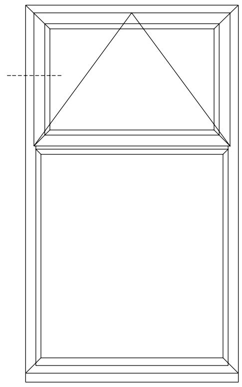


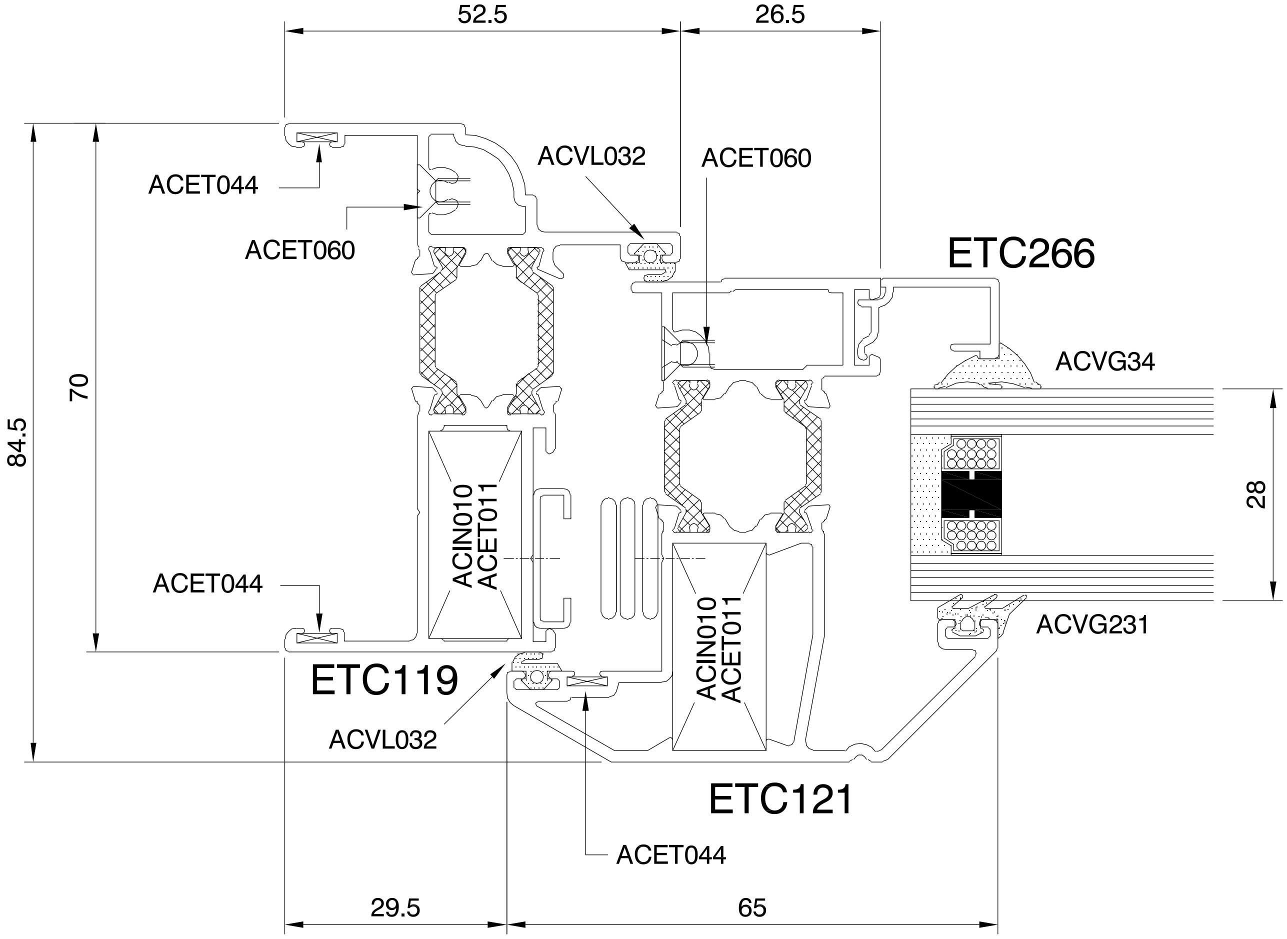


cETC-55-54-00

SECTION

2P





cETC-55-56-01

SECTION

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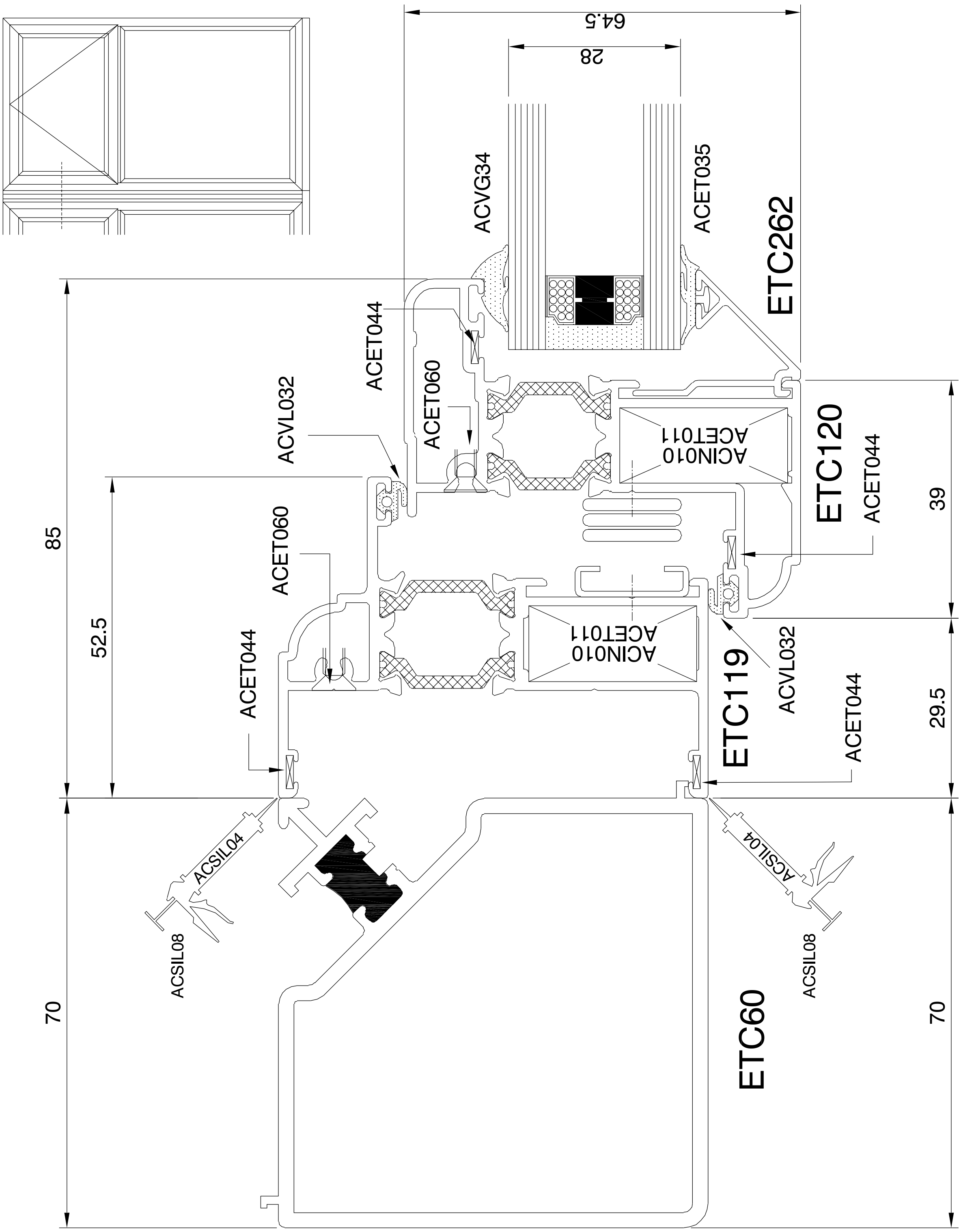

cETC-55-58-01

SECTION

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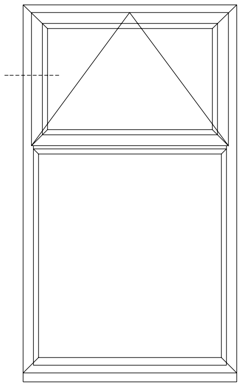
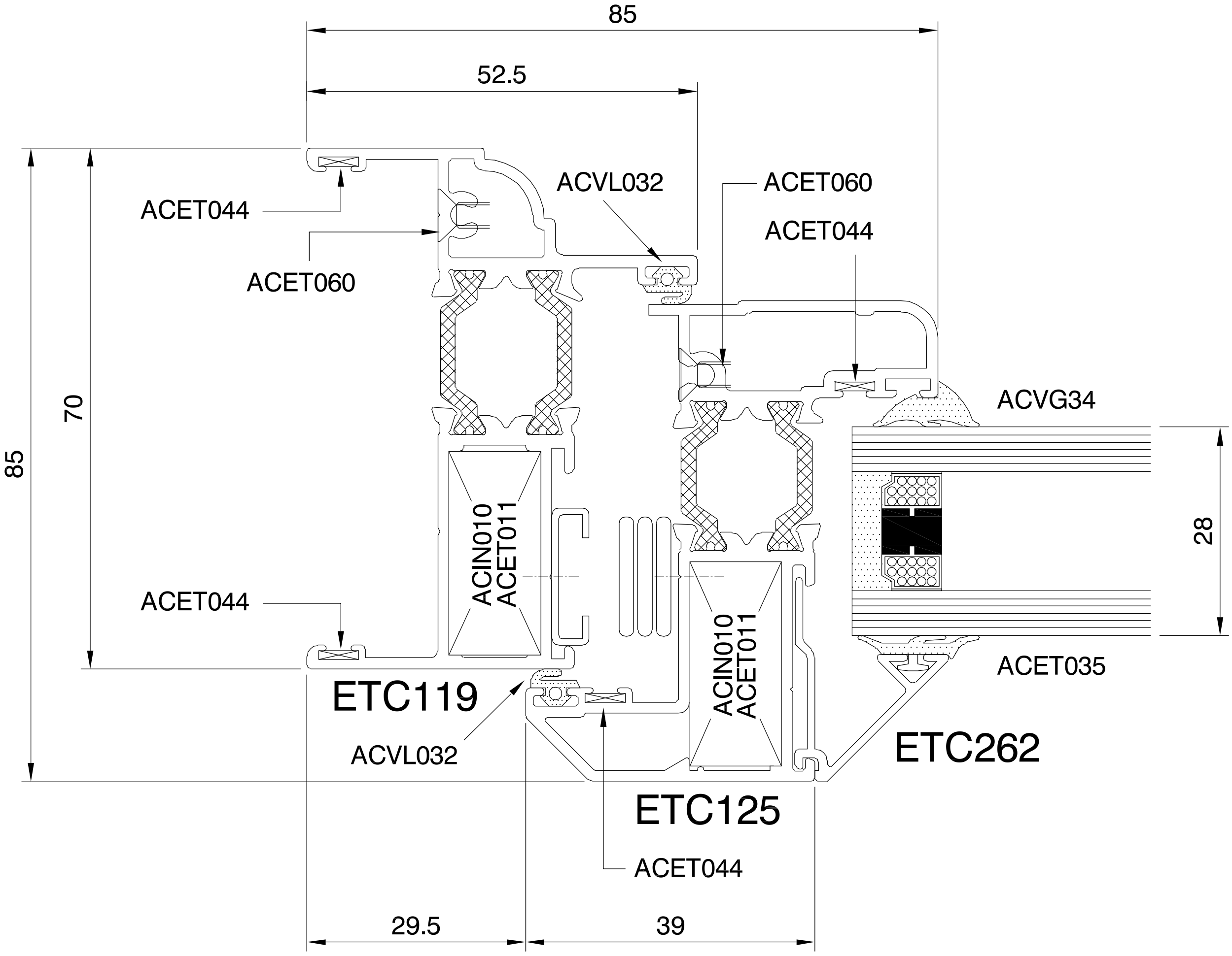


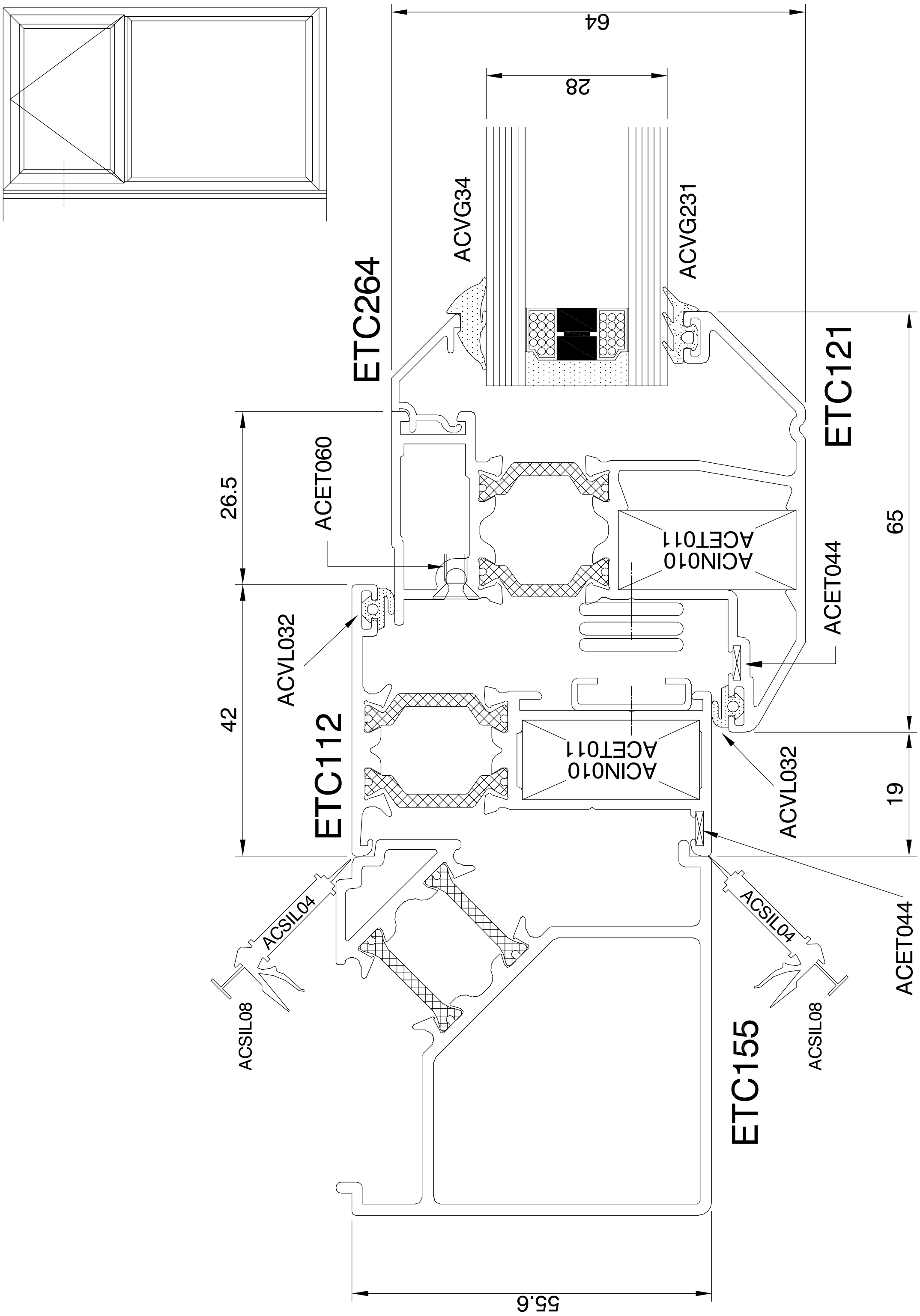


cETC-55-59-00

ALITHERM - 55

SECTION

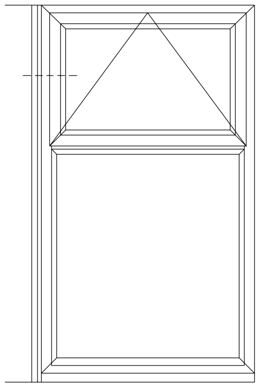
2S

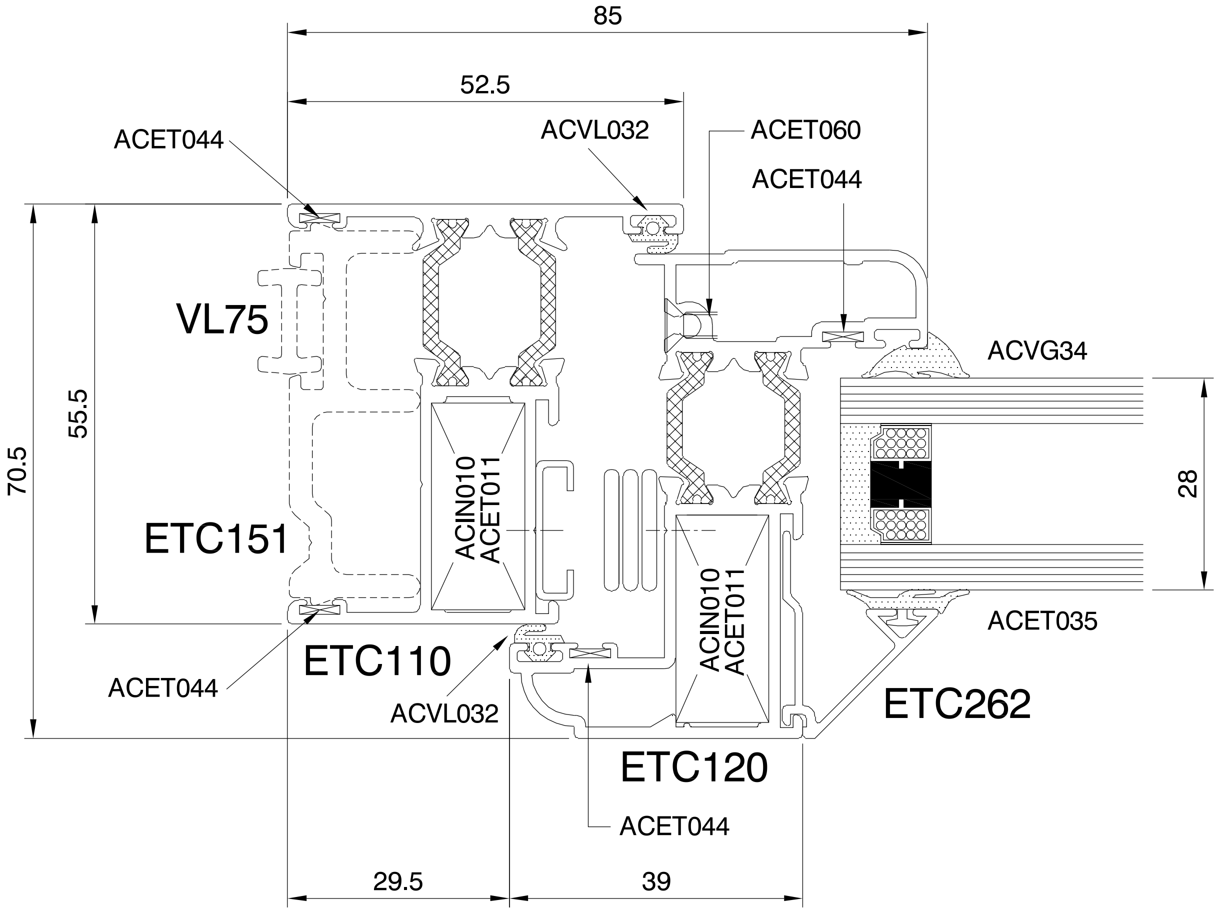


cETC-55-60-01

SECTION

2T

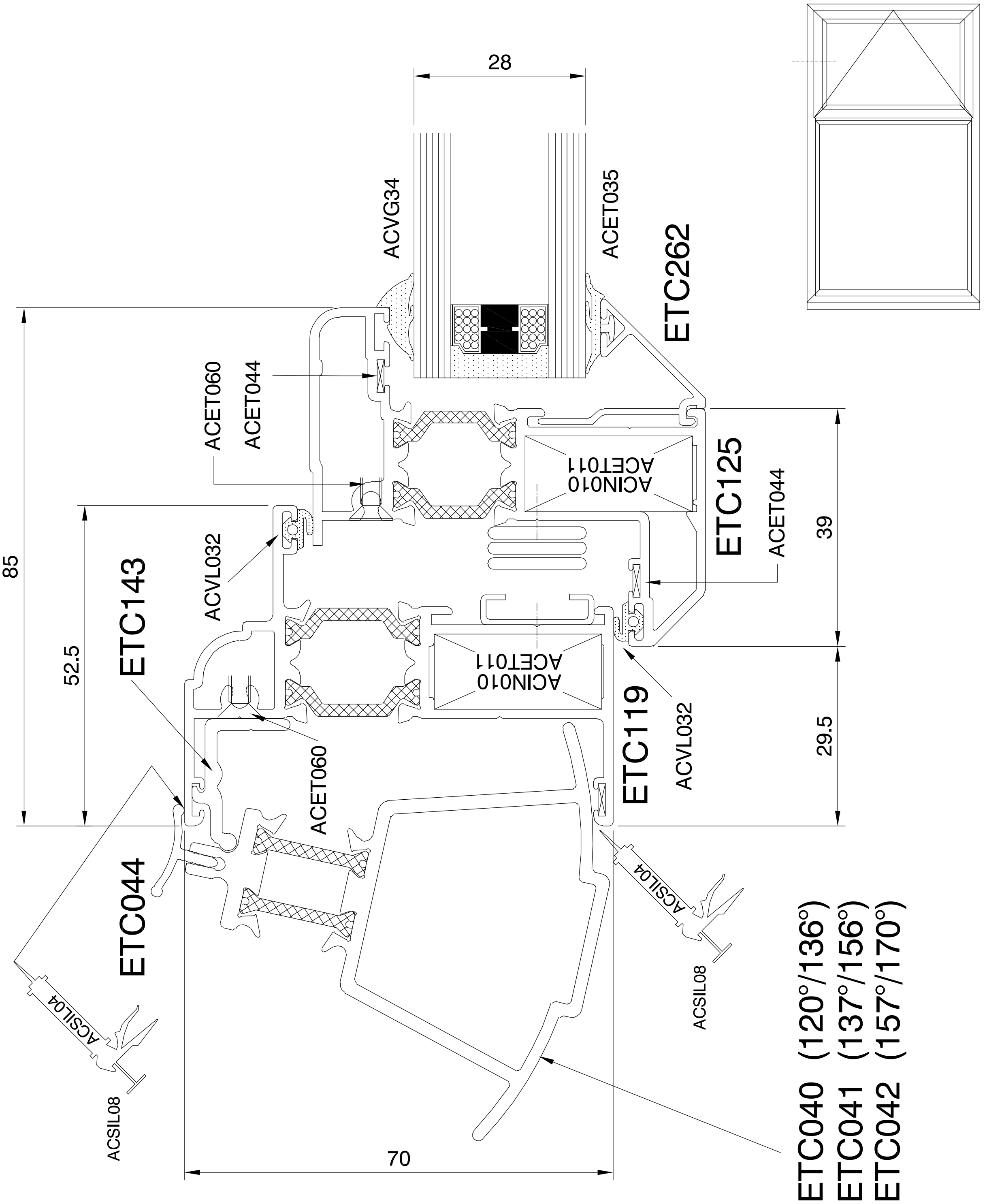




cETC-55-61-01

SECTION

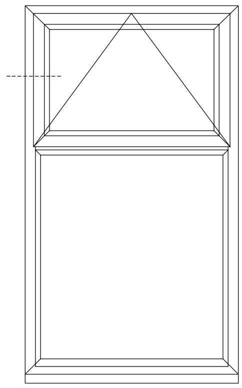
2U

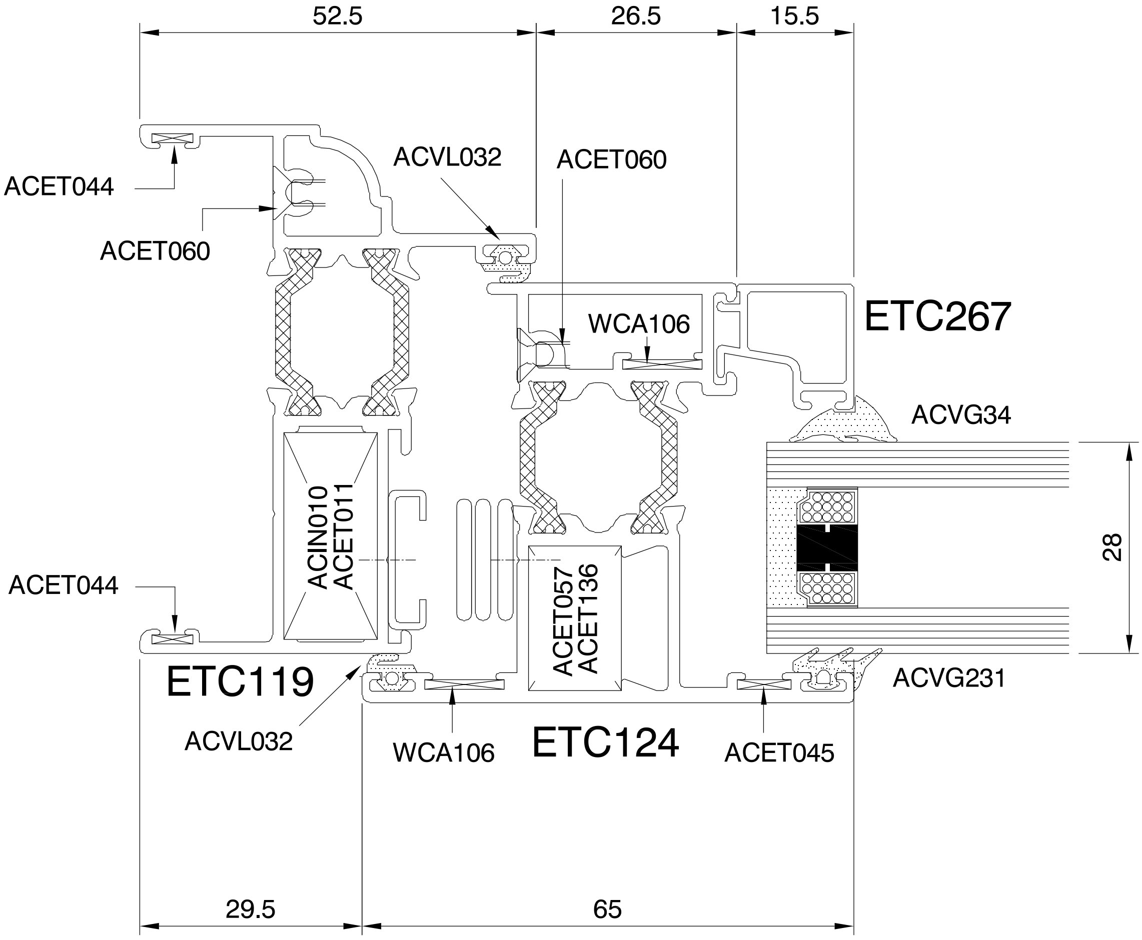


cETC-55-65-00

SECTION

2V



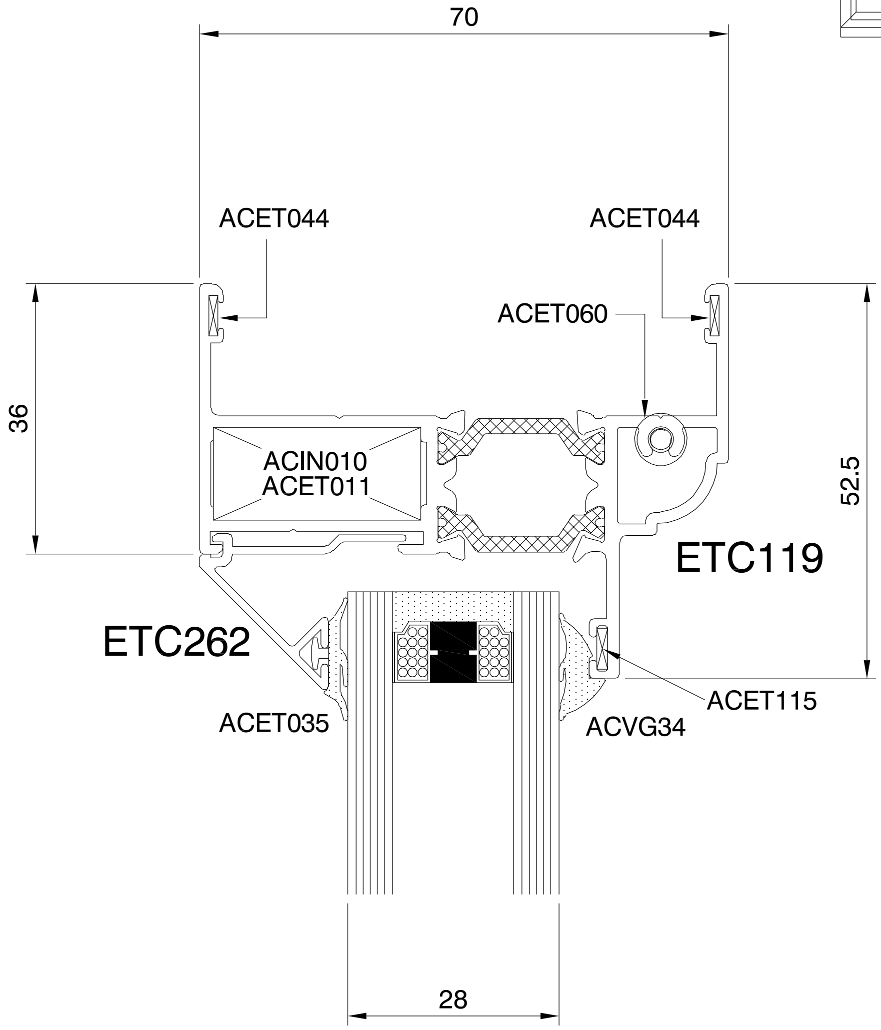


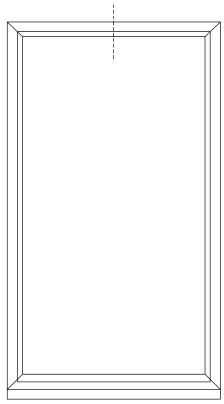
cETC-55-70-00

ALITHERM - 55

SECTION

3A





cETC-55-24-01

SECTION

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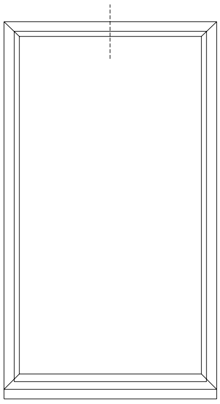

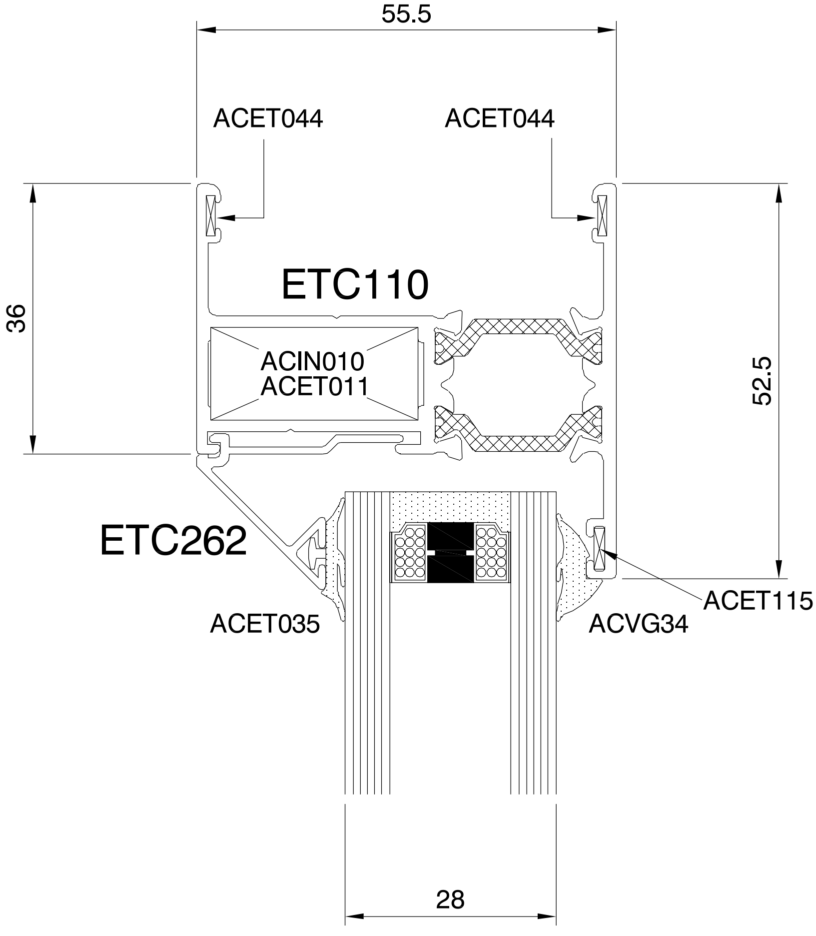

cETC-55-25-01

SECTION

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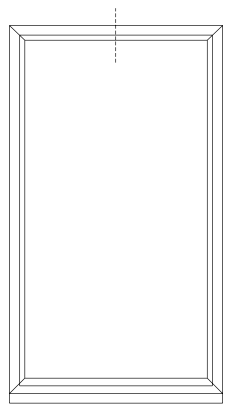

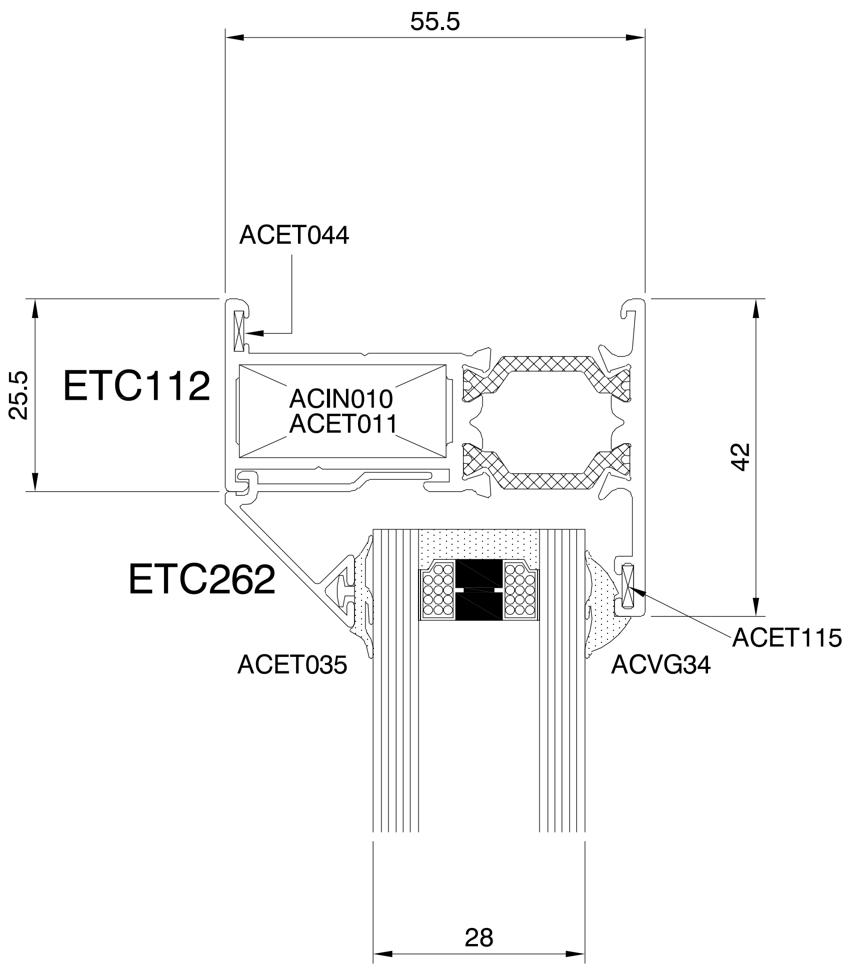

cETC-55-26-01

SECTION

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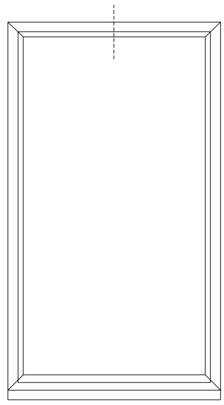

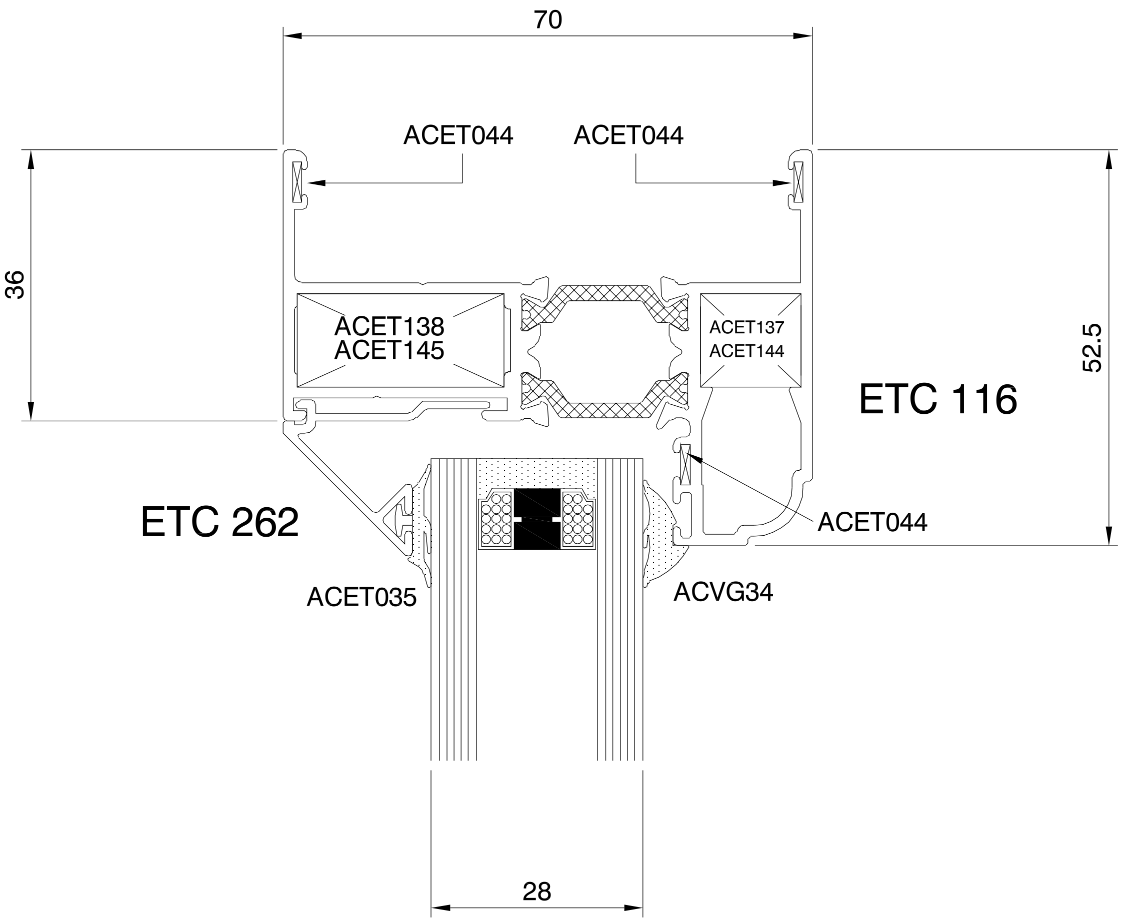

cETC-55-71-00

SECTION

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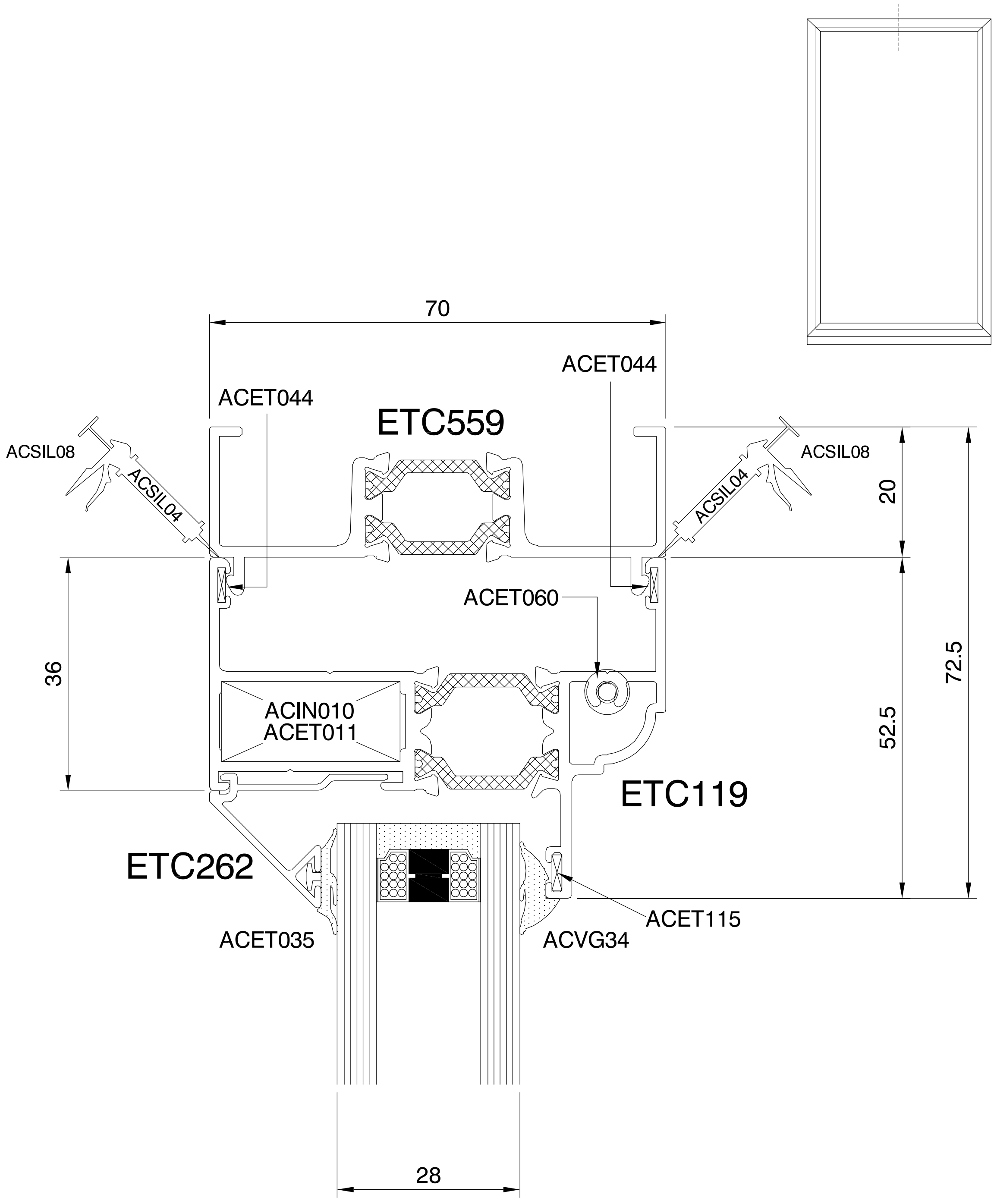

cETC-55-27-01

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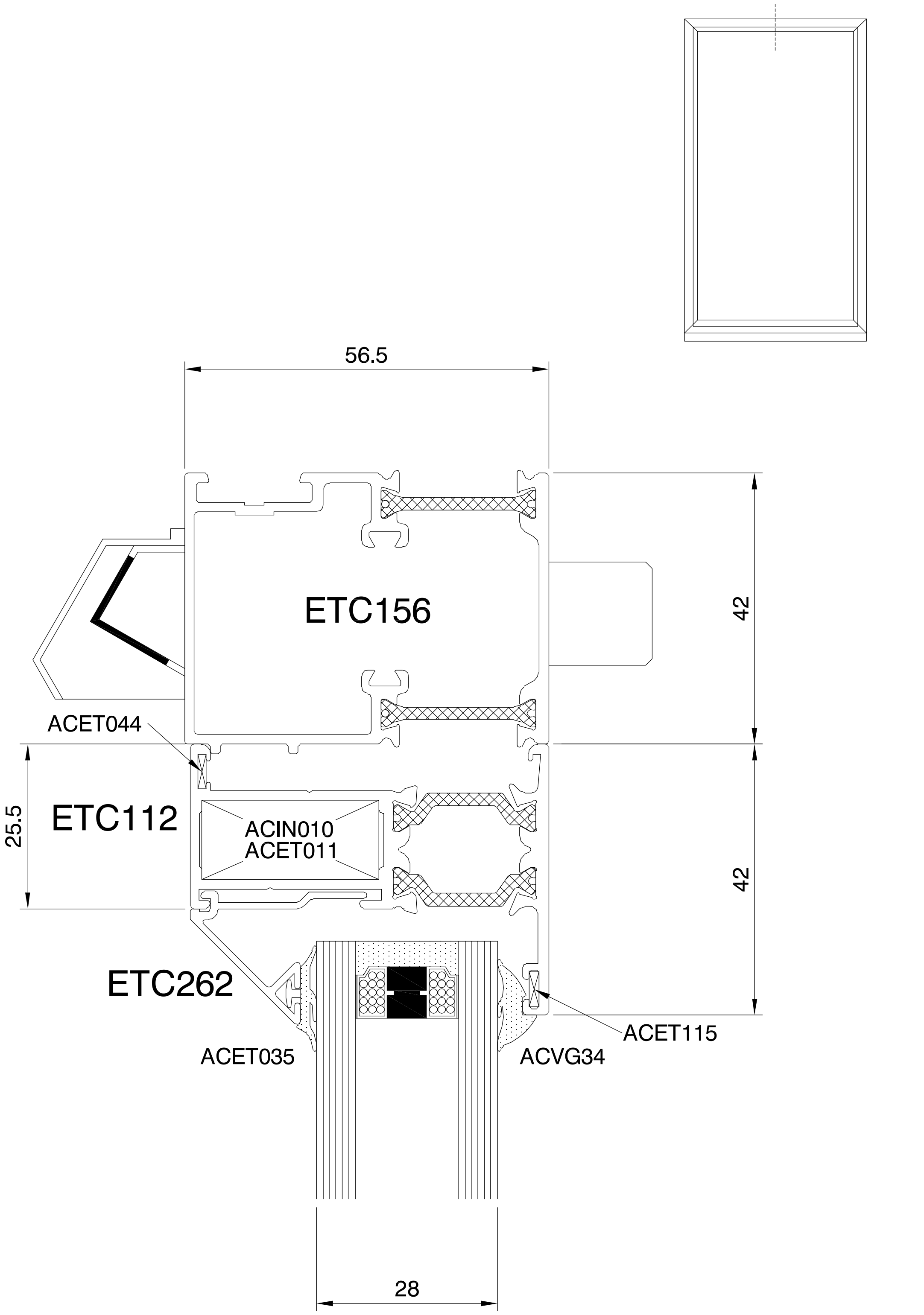
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SECTION

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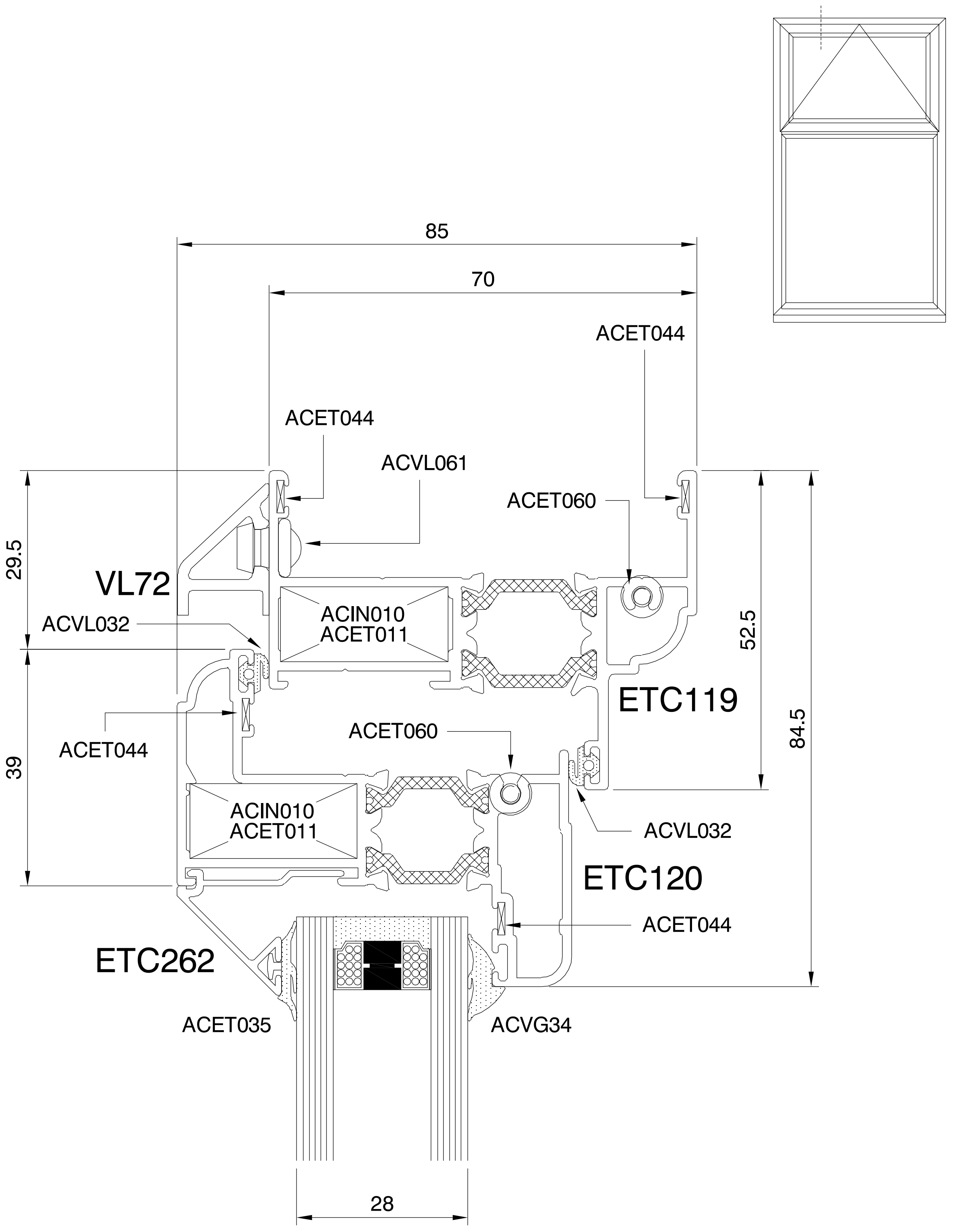

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SECTION

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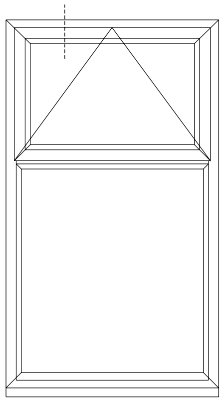
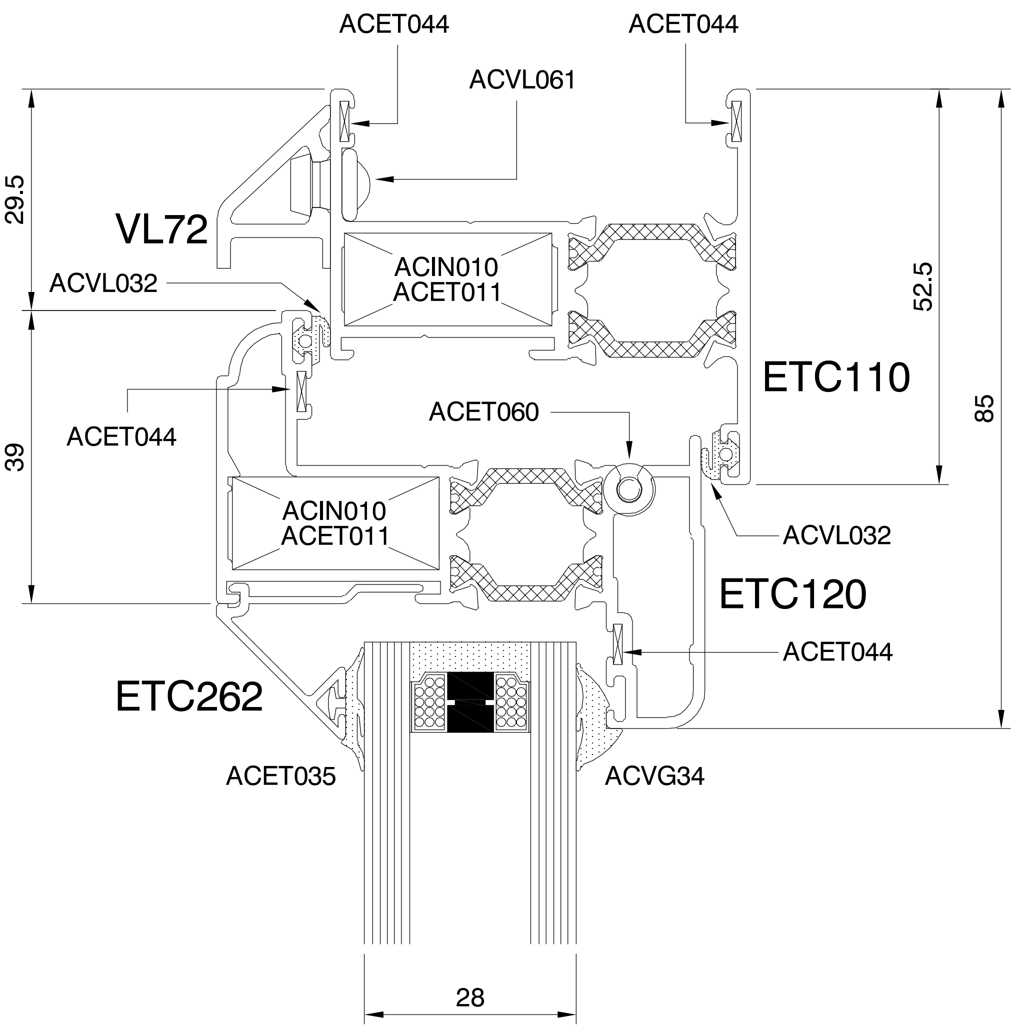


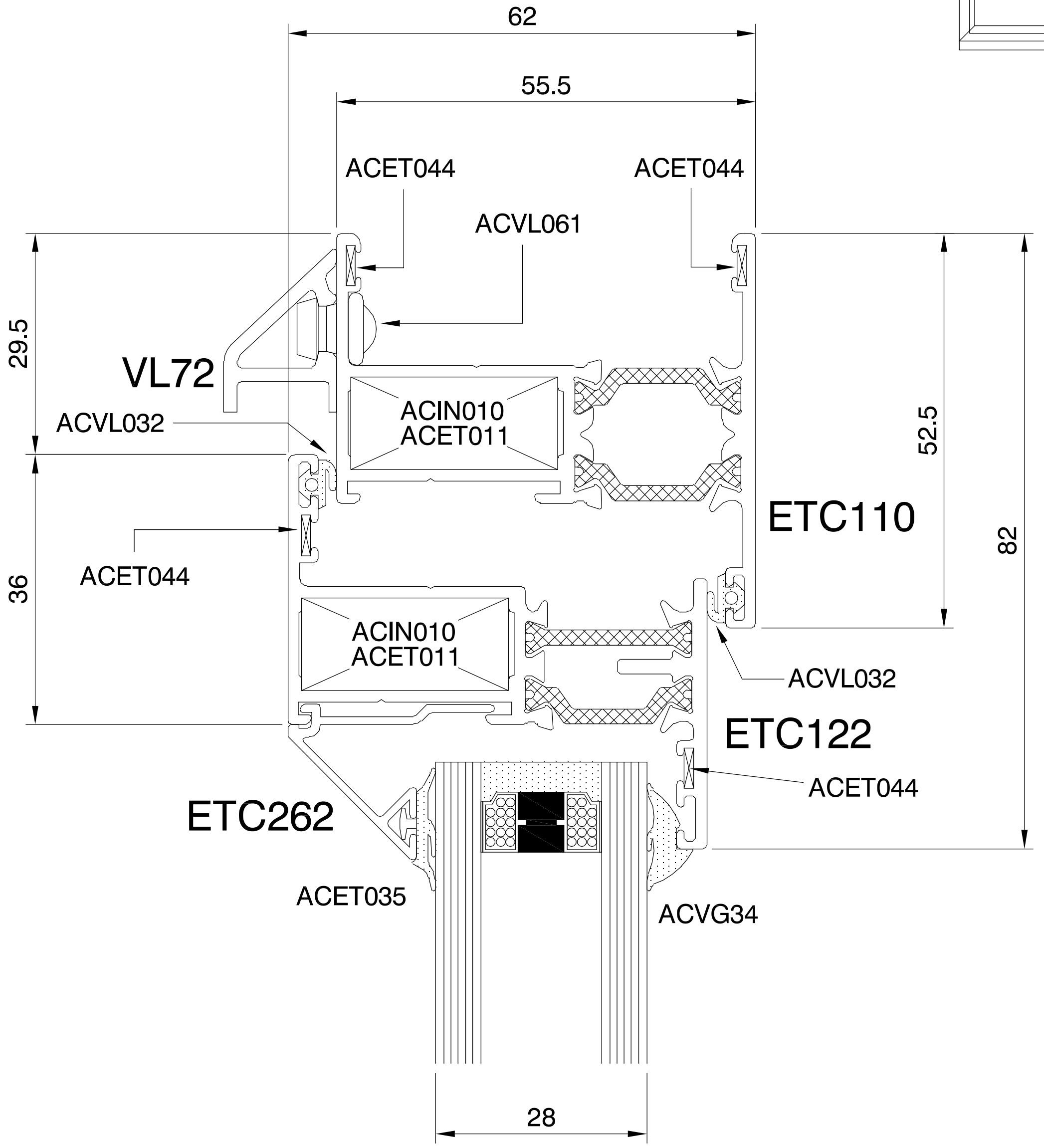


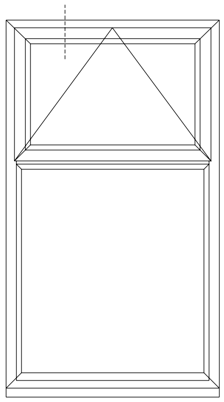
cETC-55-29-00

ALITHERM - 55

SECTION

4C

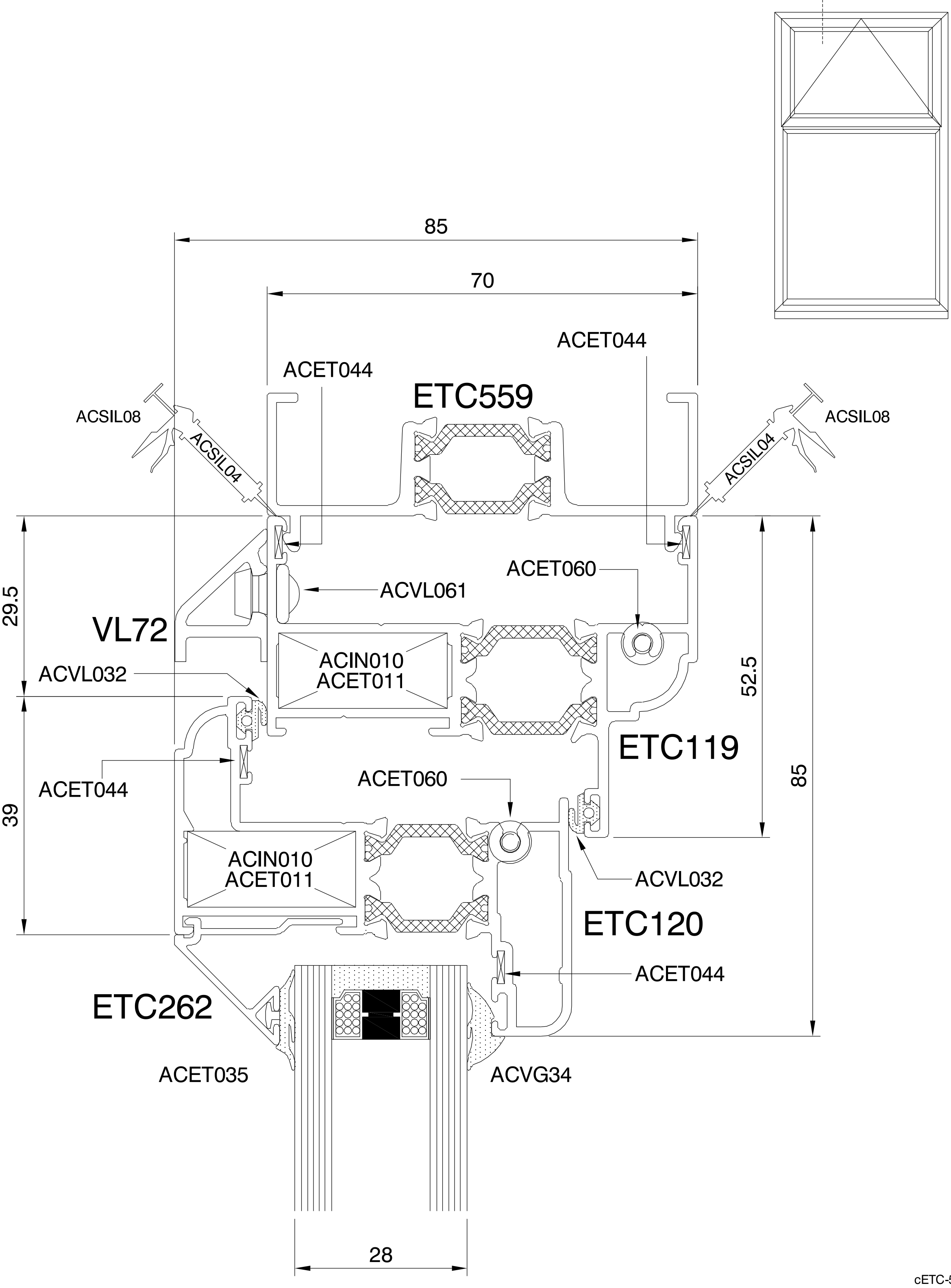




cETC-55-30-01

SECTION

4D



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SECTION

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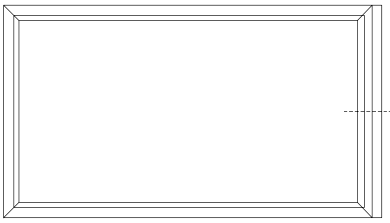

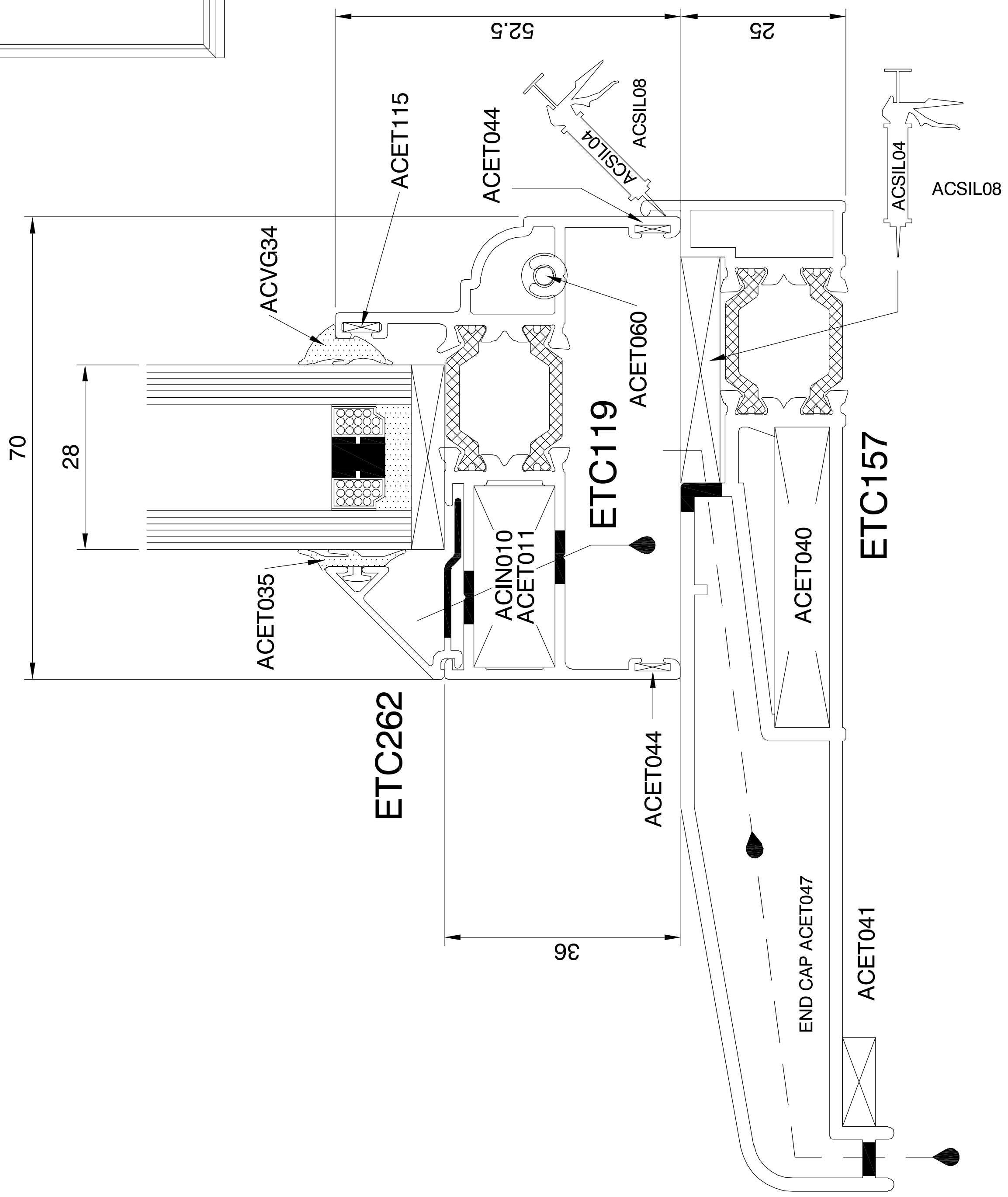

cETC-55-32-01

SECTION

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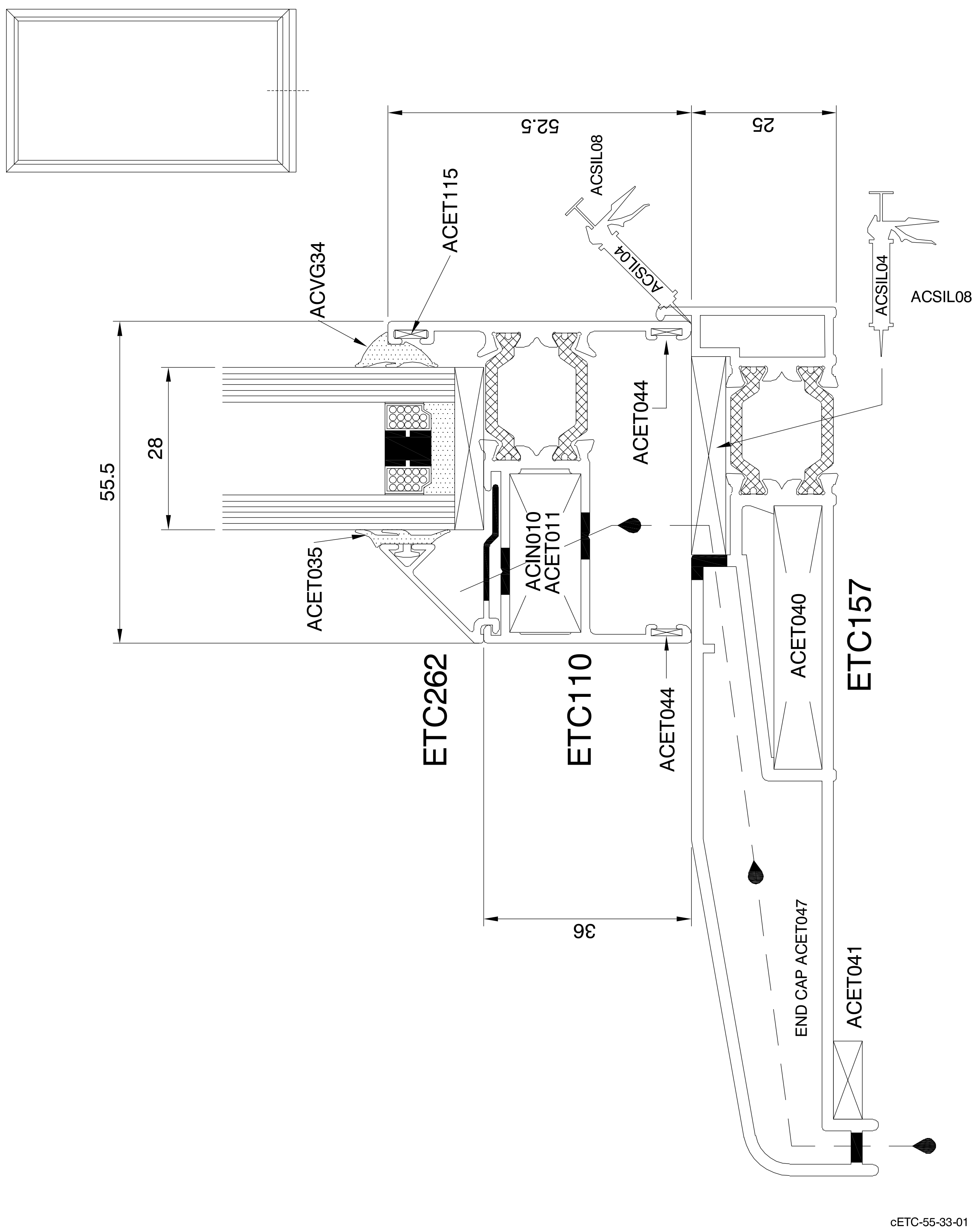

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ACSIL04
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55.5
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ACET041
cETC-55-33-01

ALITHERM - 55

SECTION

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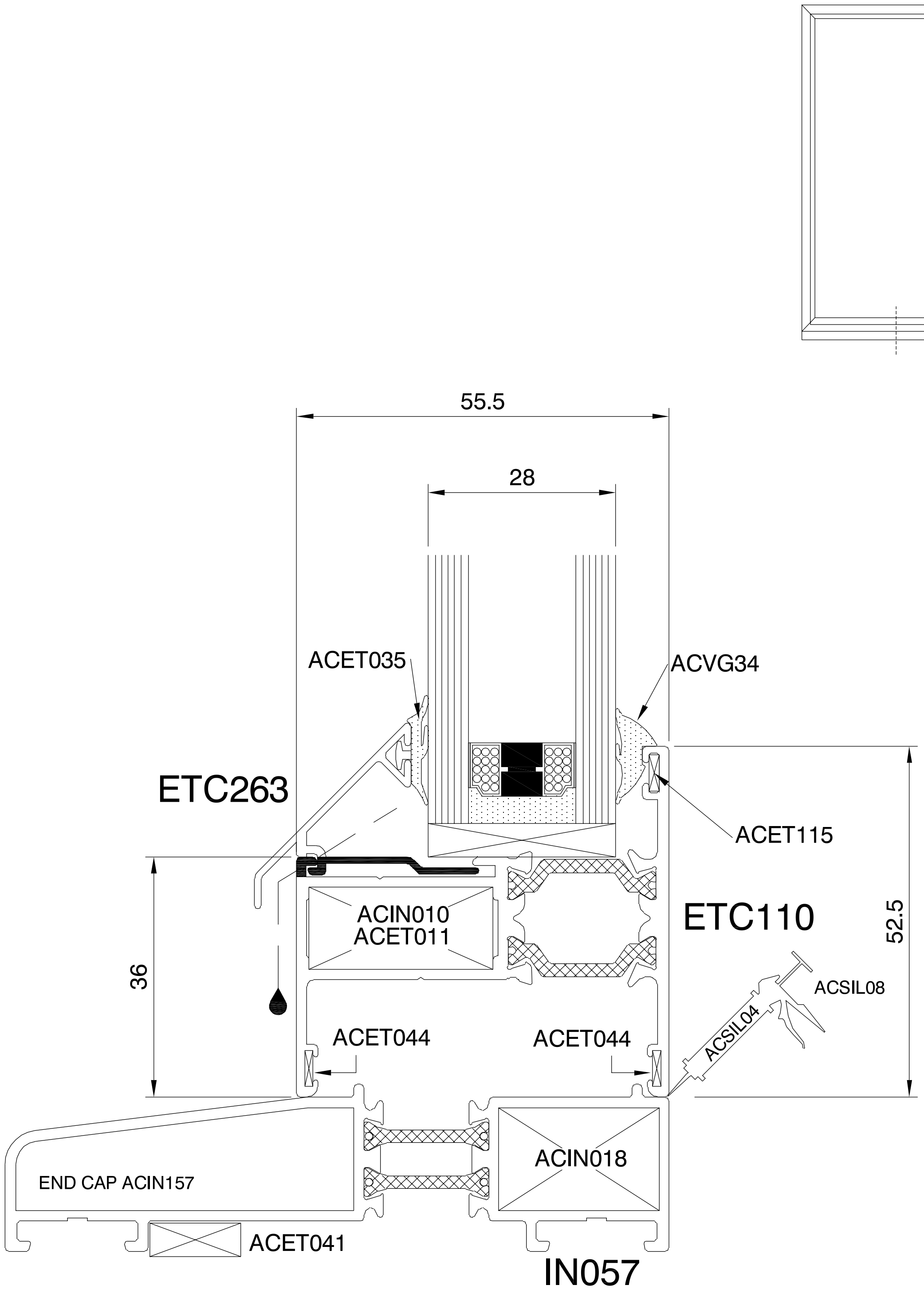

cETC-55-34-01

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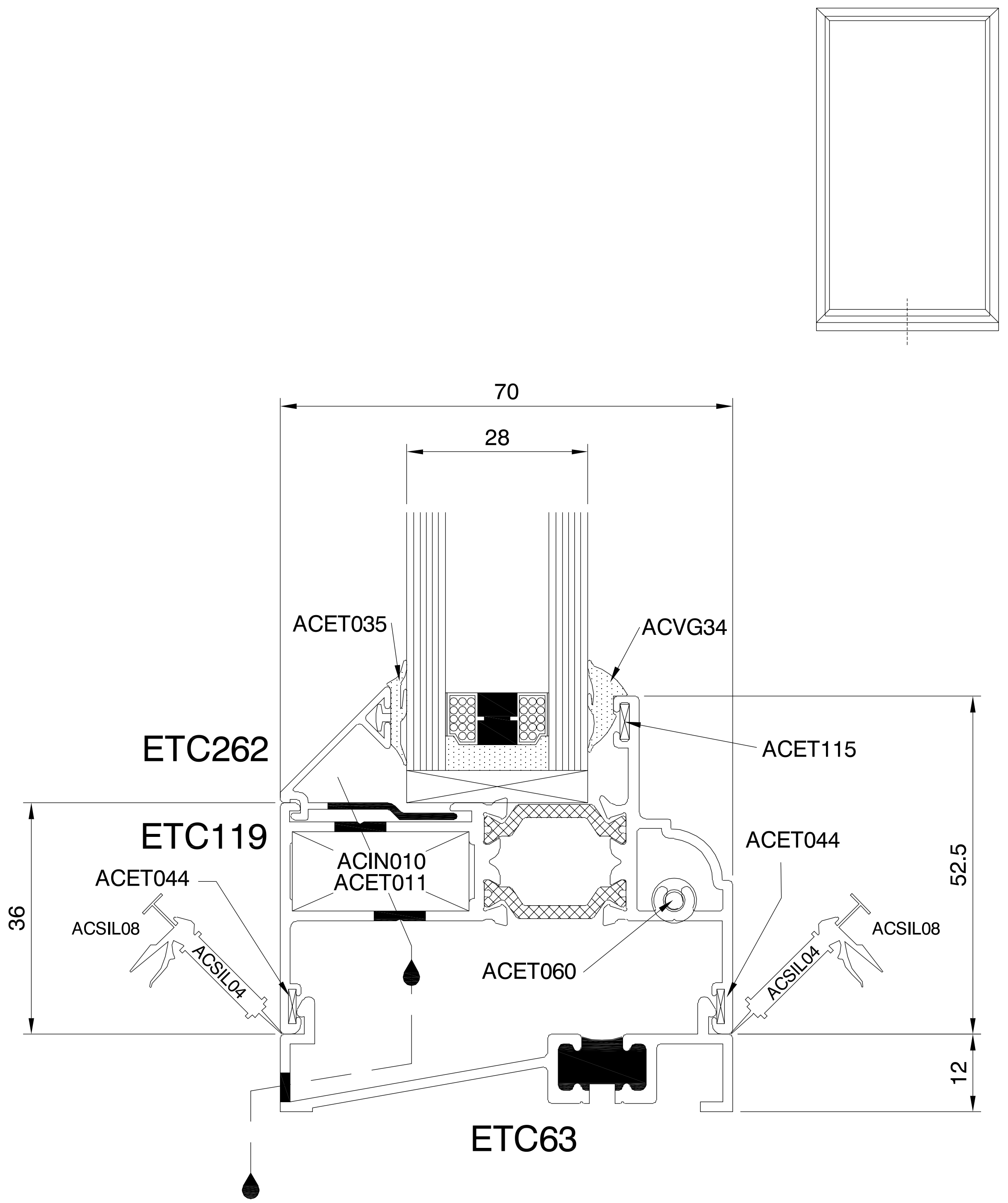

cETC-55-35-01

SECTION

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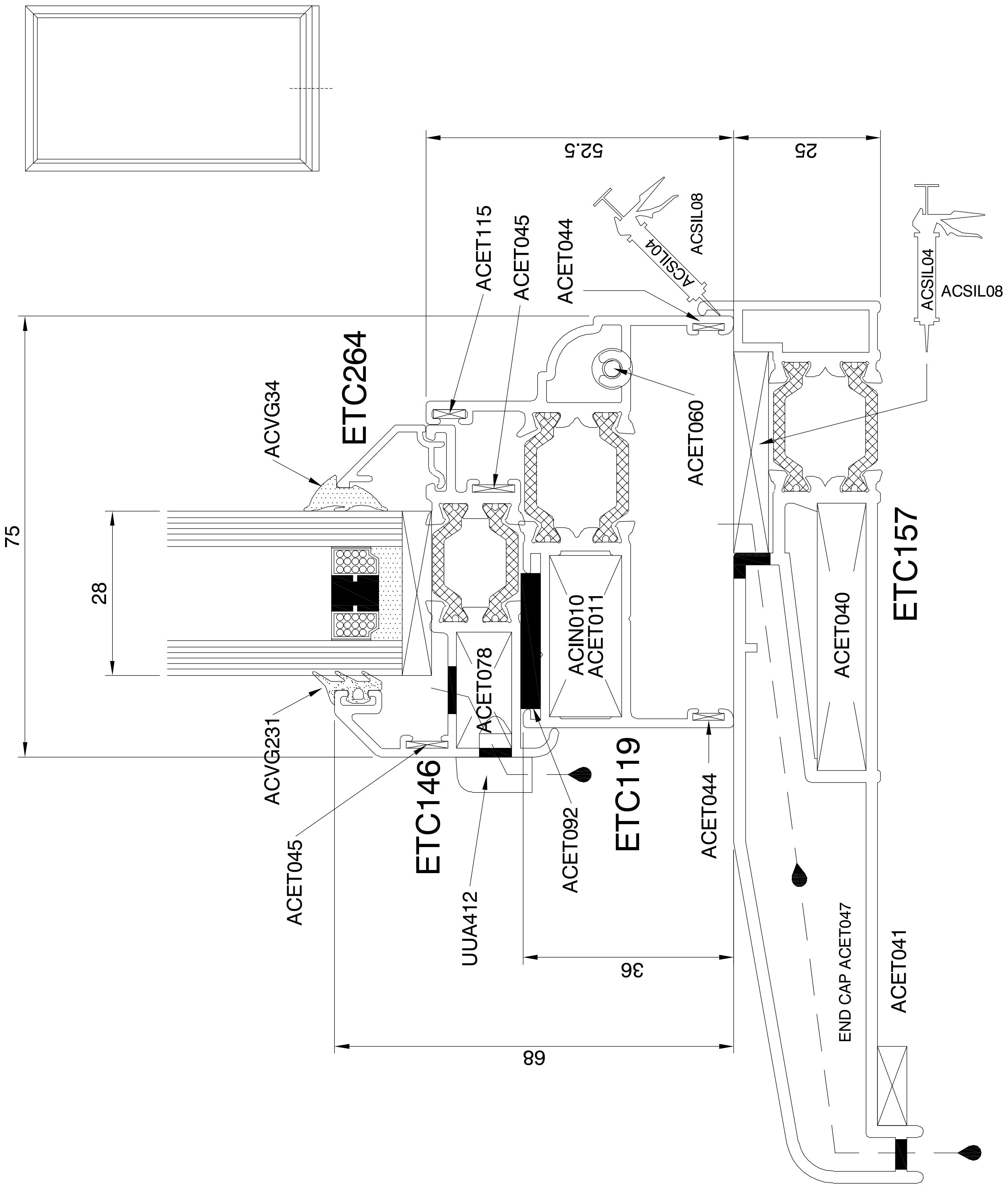
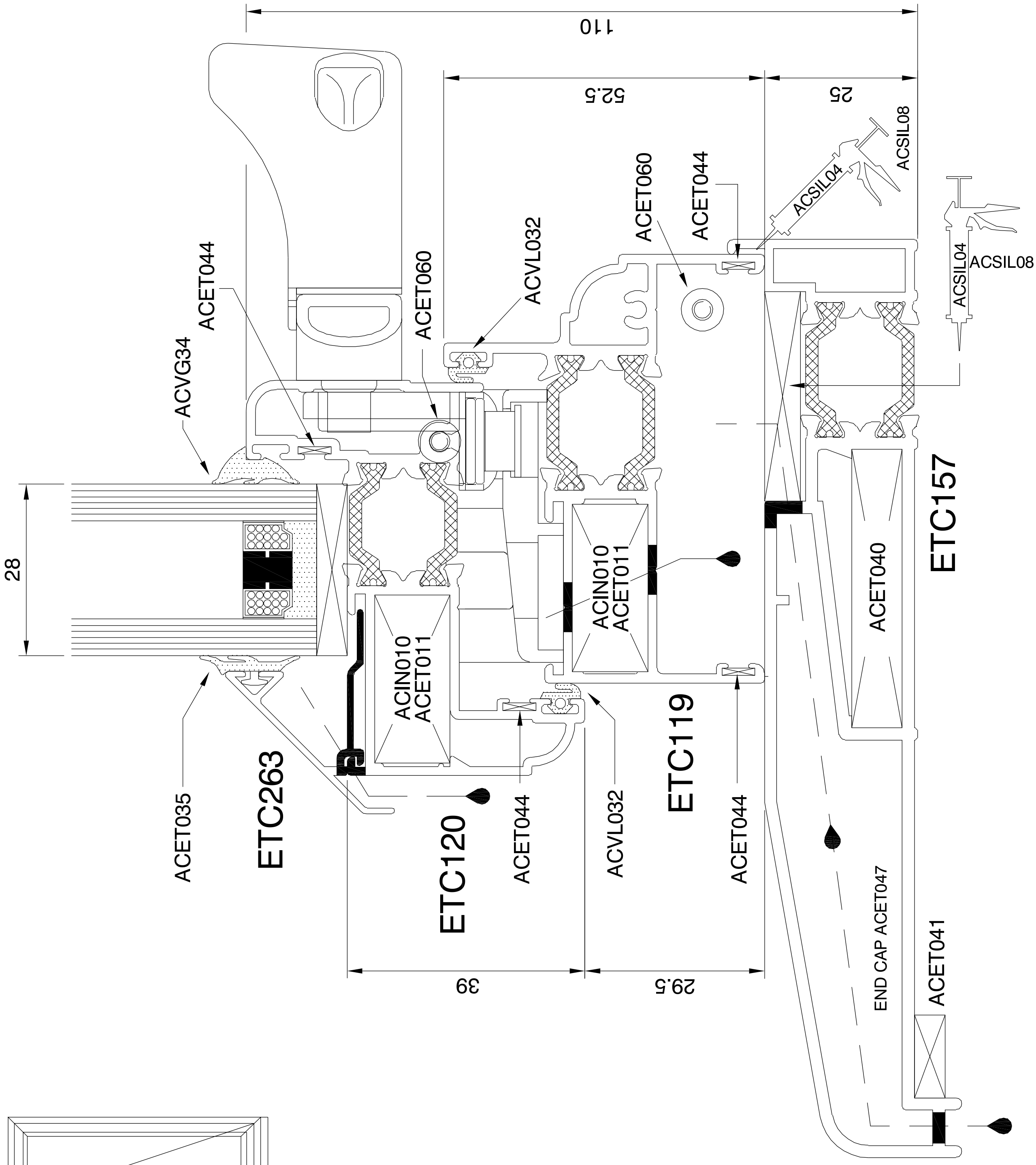
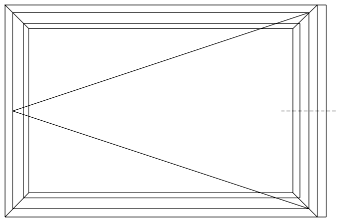


cETC-55-67-00

SECTION

6A





cETC-55-36-00

SECTION

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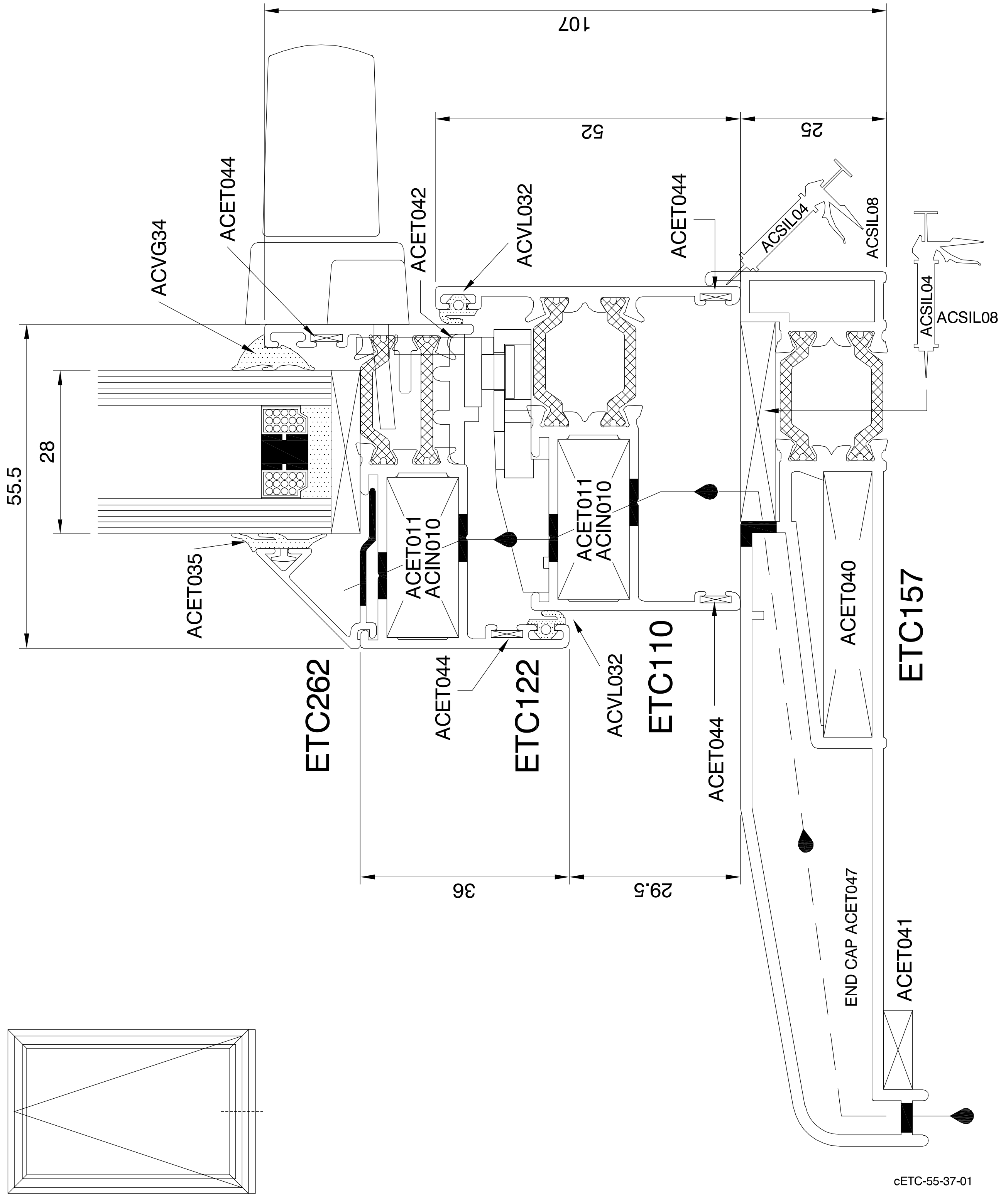
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29.5
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ACET044
ACSIL04
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ACSIL04
ACSIL08
ACET011
ACIN010
ACET011
ACIN010
ACET035
ETC262
ACET044
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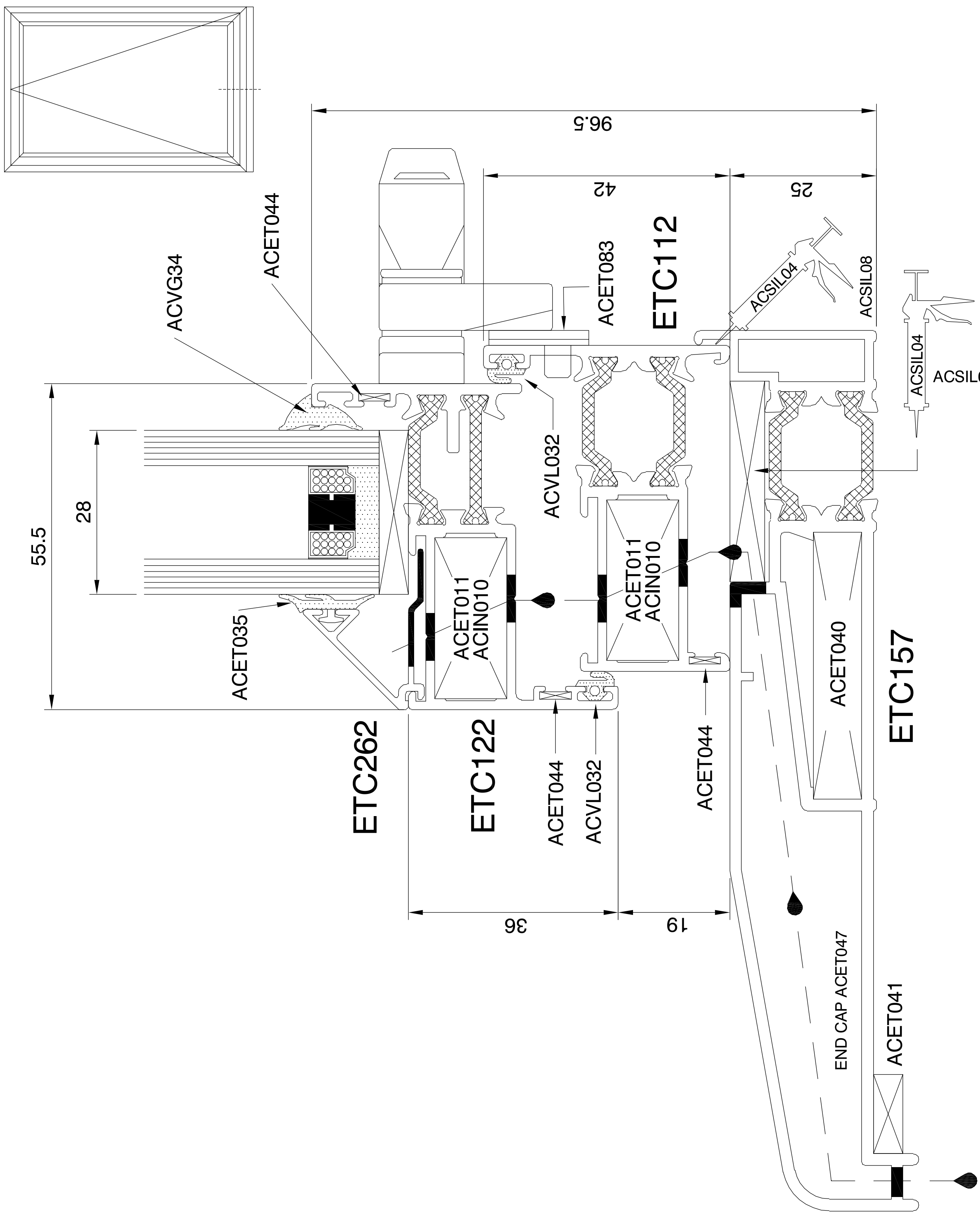
ACET040
ETC157
END CAP ACET047
ACET041
cETC-55-37-01

SECTION

6C



cETC-55-38-01

SECTION

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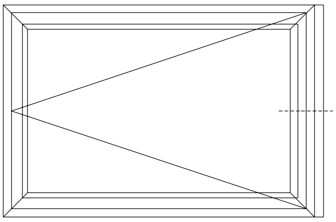

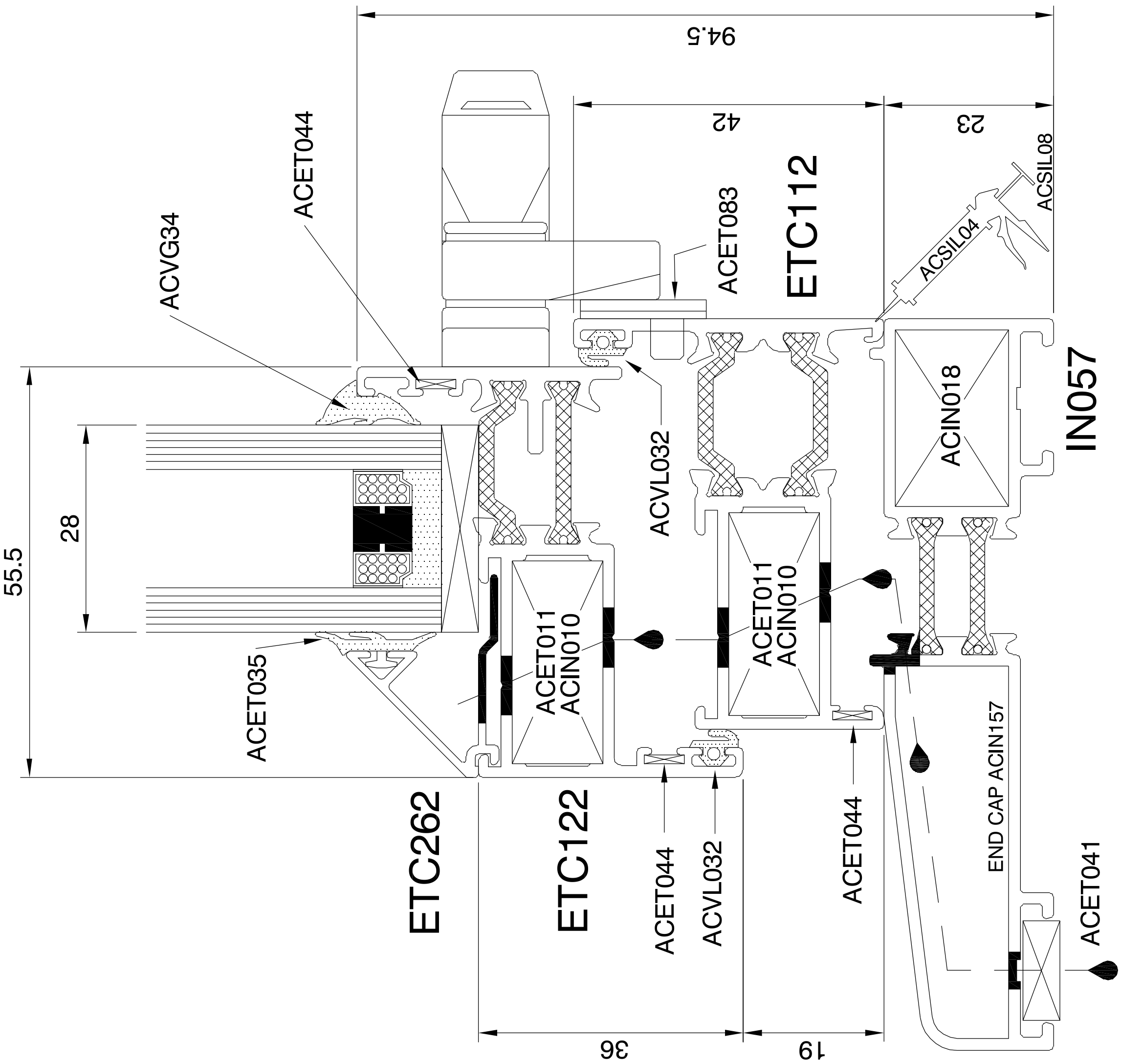

cETC-55-39-01

SECTION

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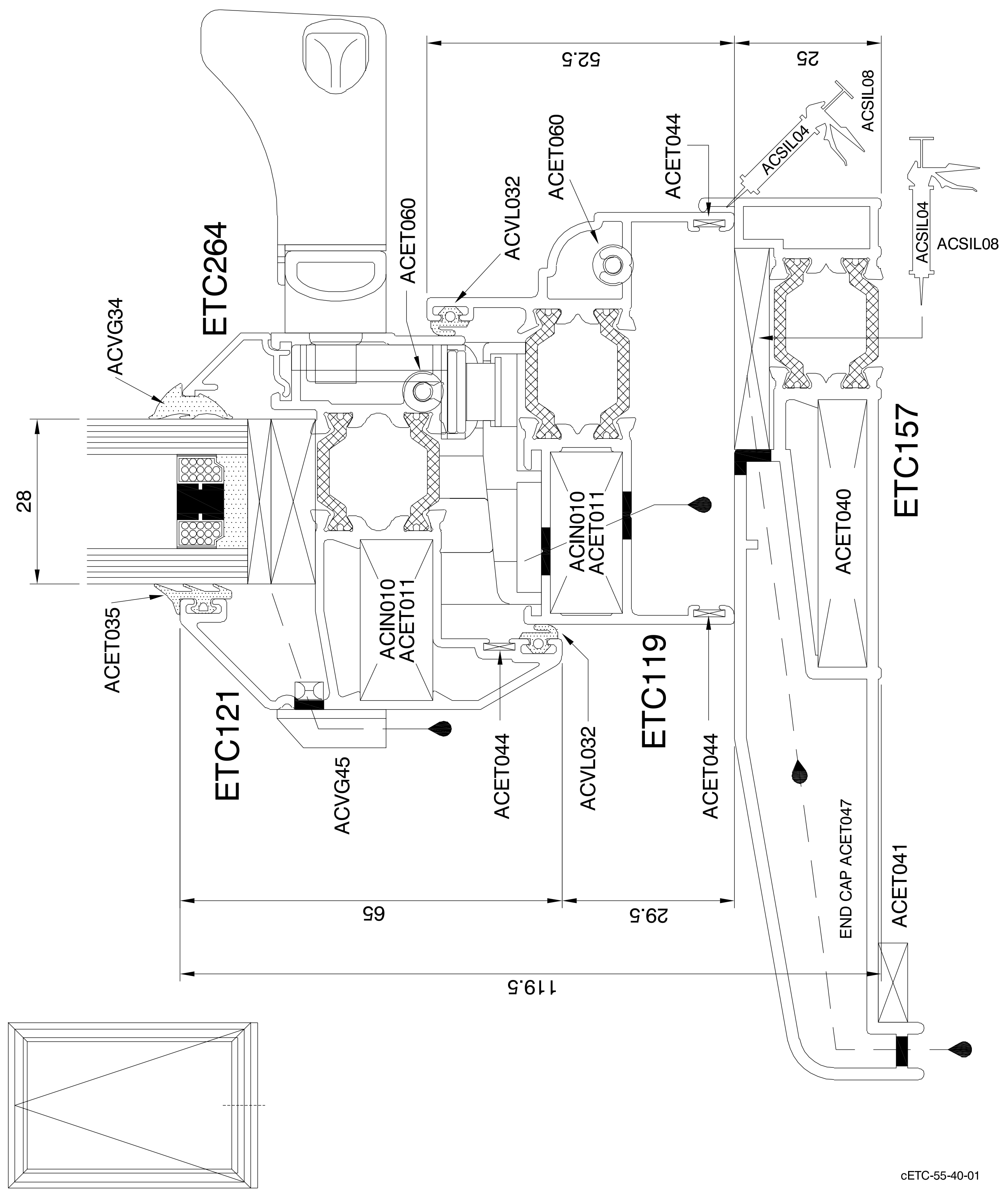

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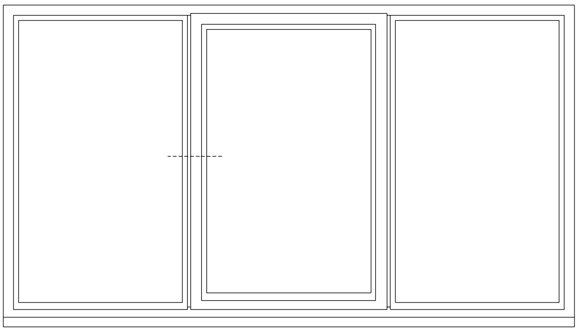
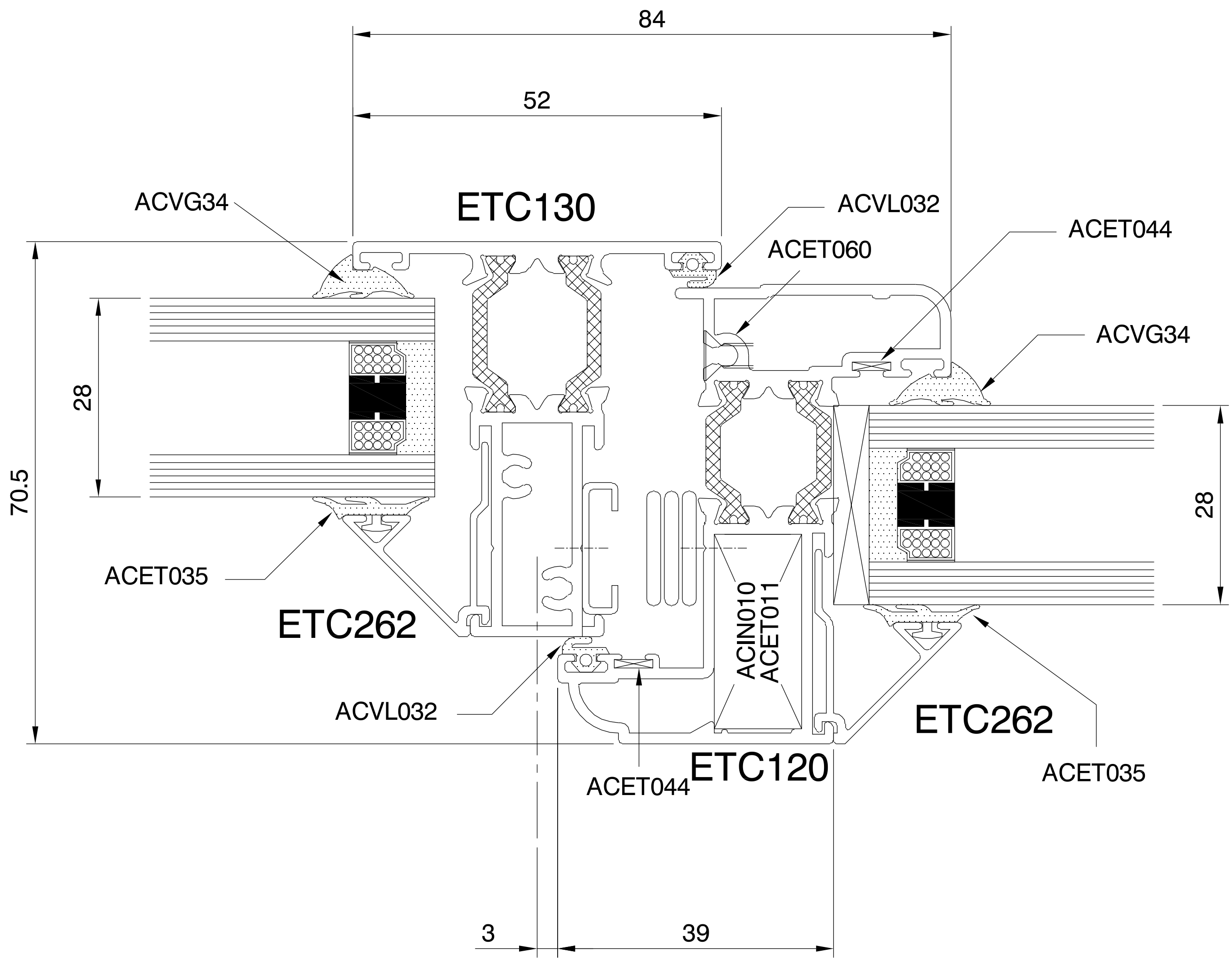
7A

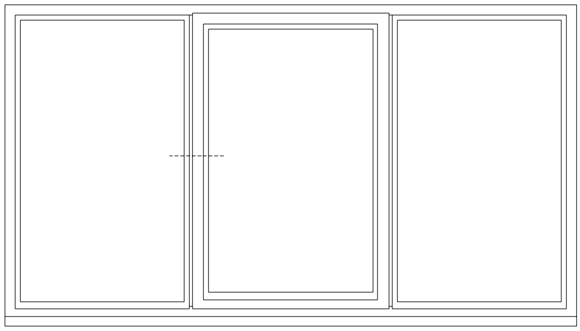


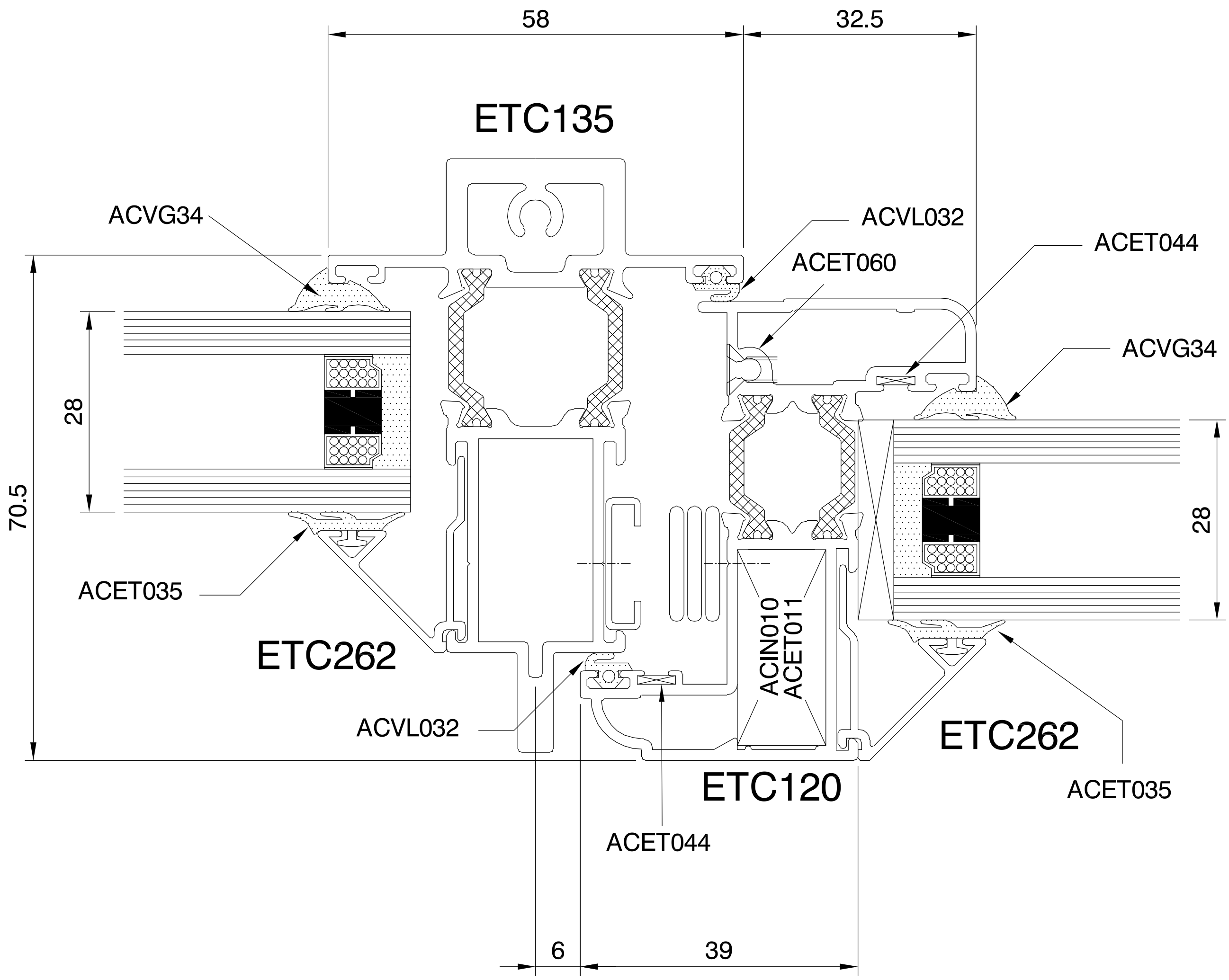


cETC-55-41-01

SECTION

7B





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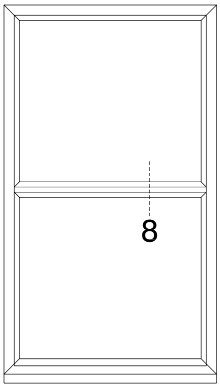
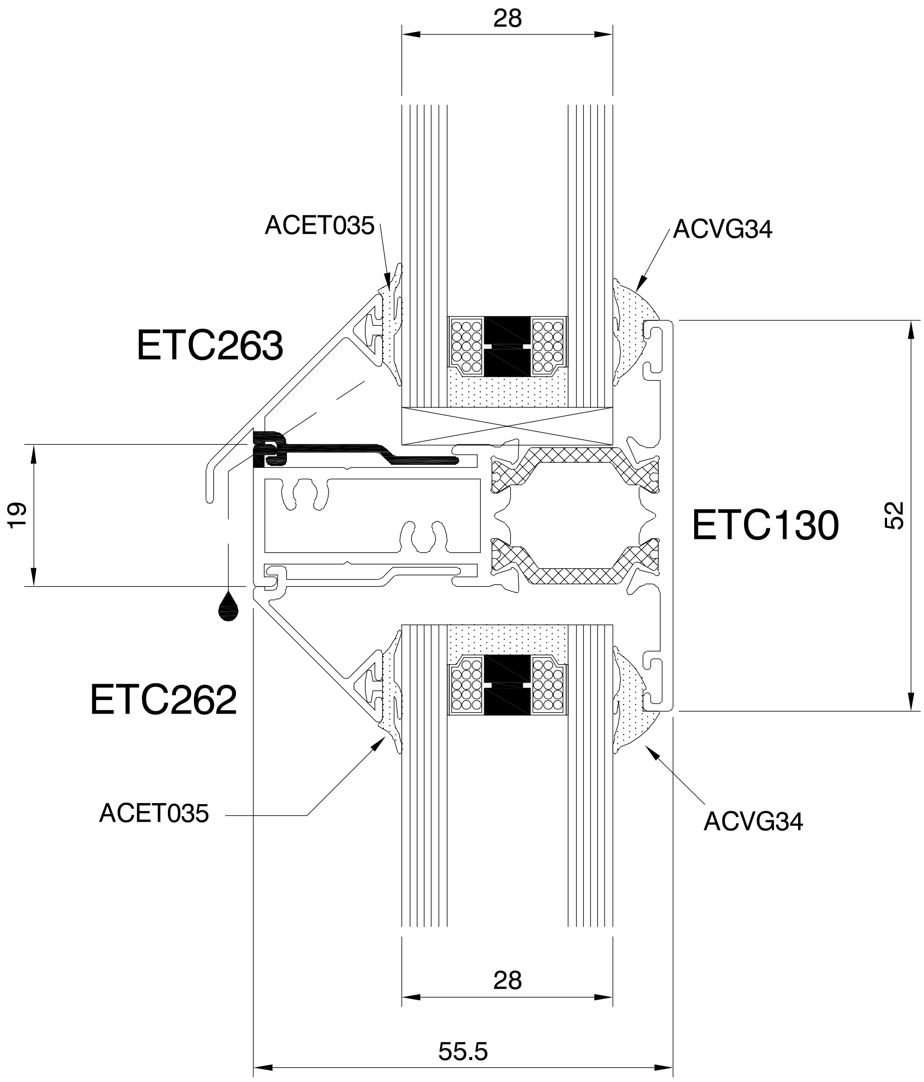
8A





cETC-55-42-00

SECTION

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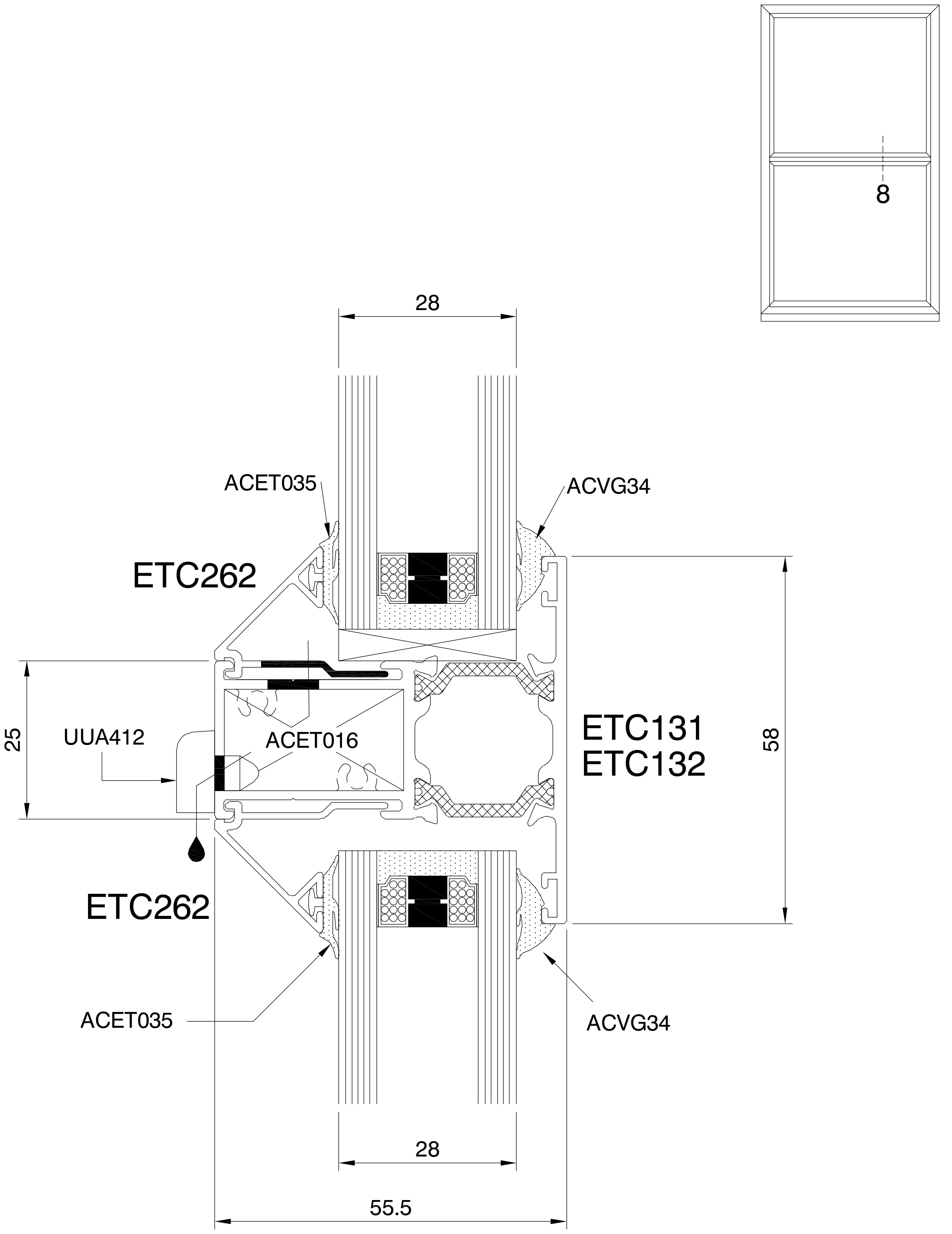
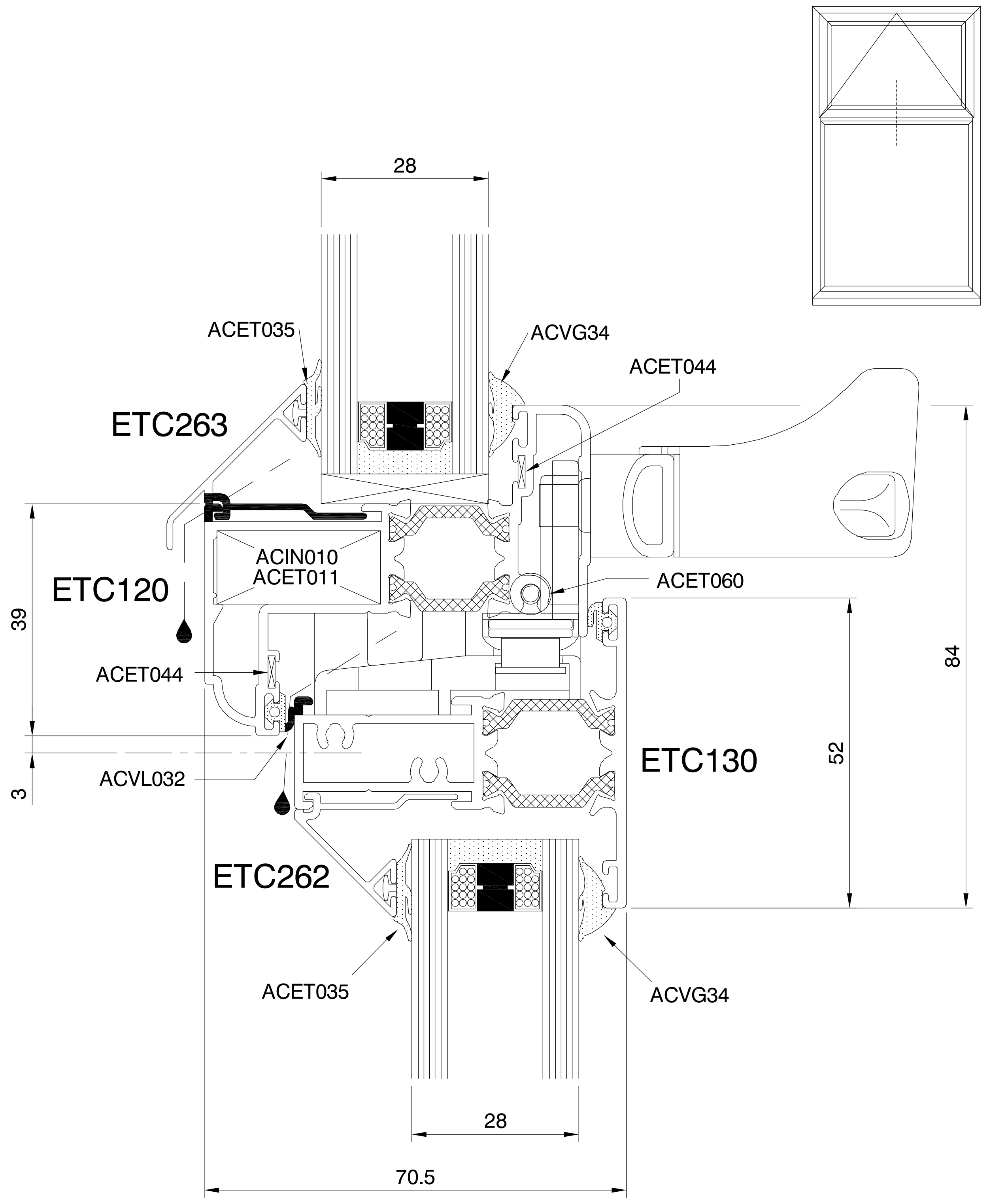


cETC-55-43-01

SECTION

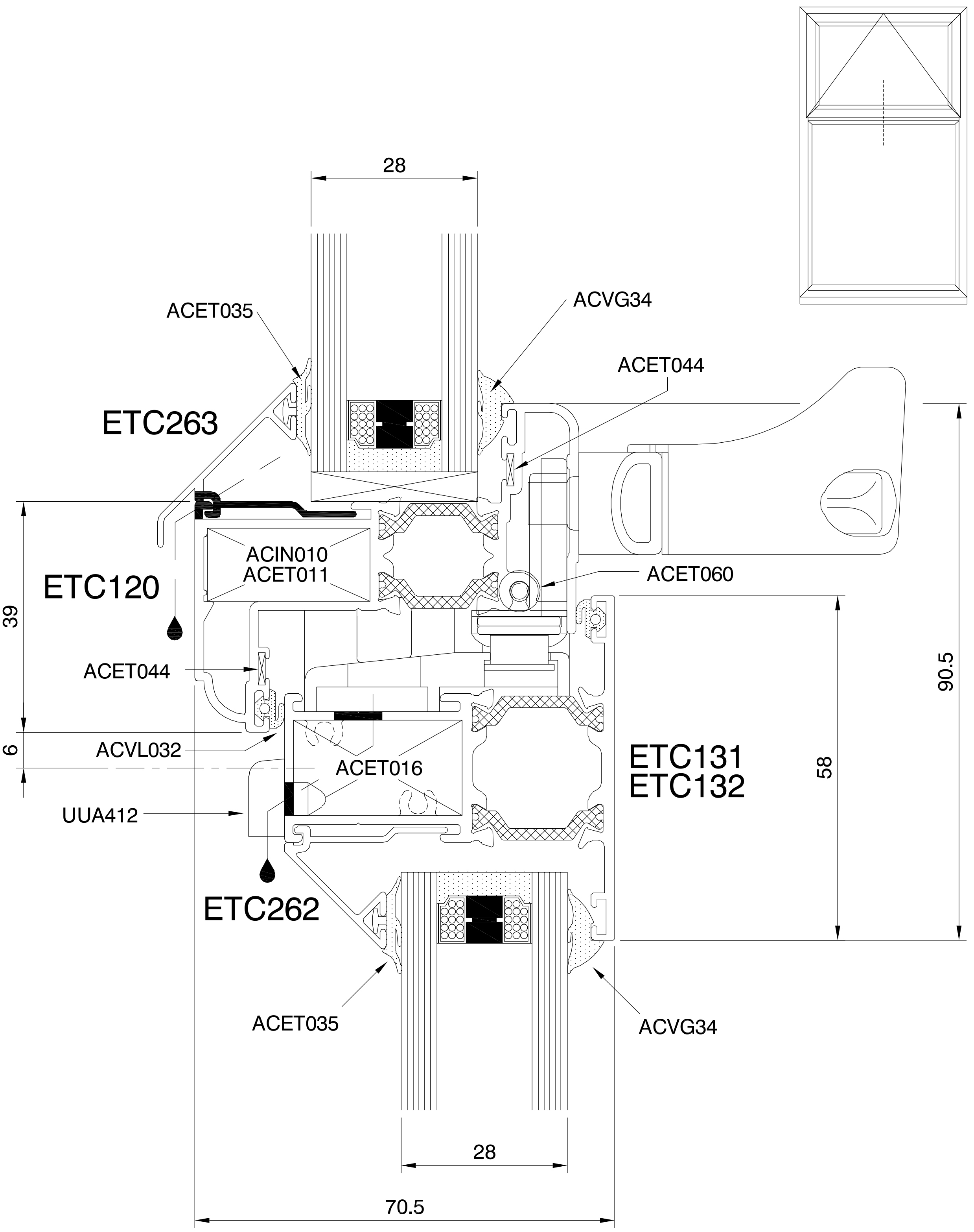
9A



cETC-55-44-00

SECTION

9B



cETC-55-45-01

SECTION

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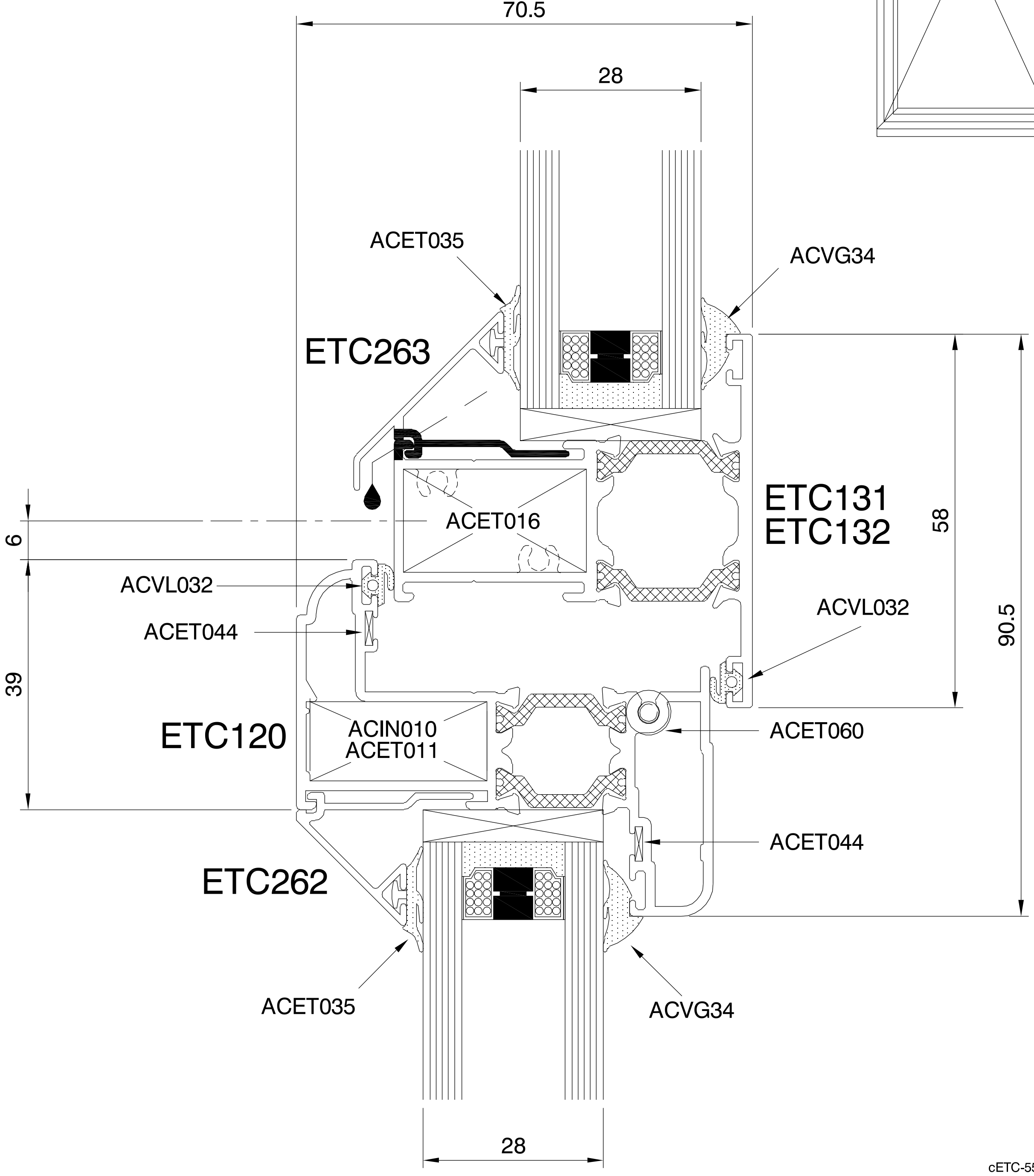

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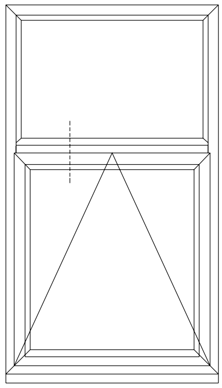
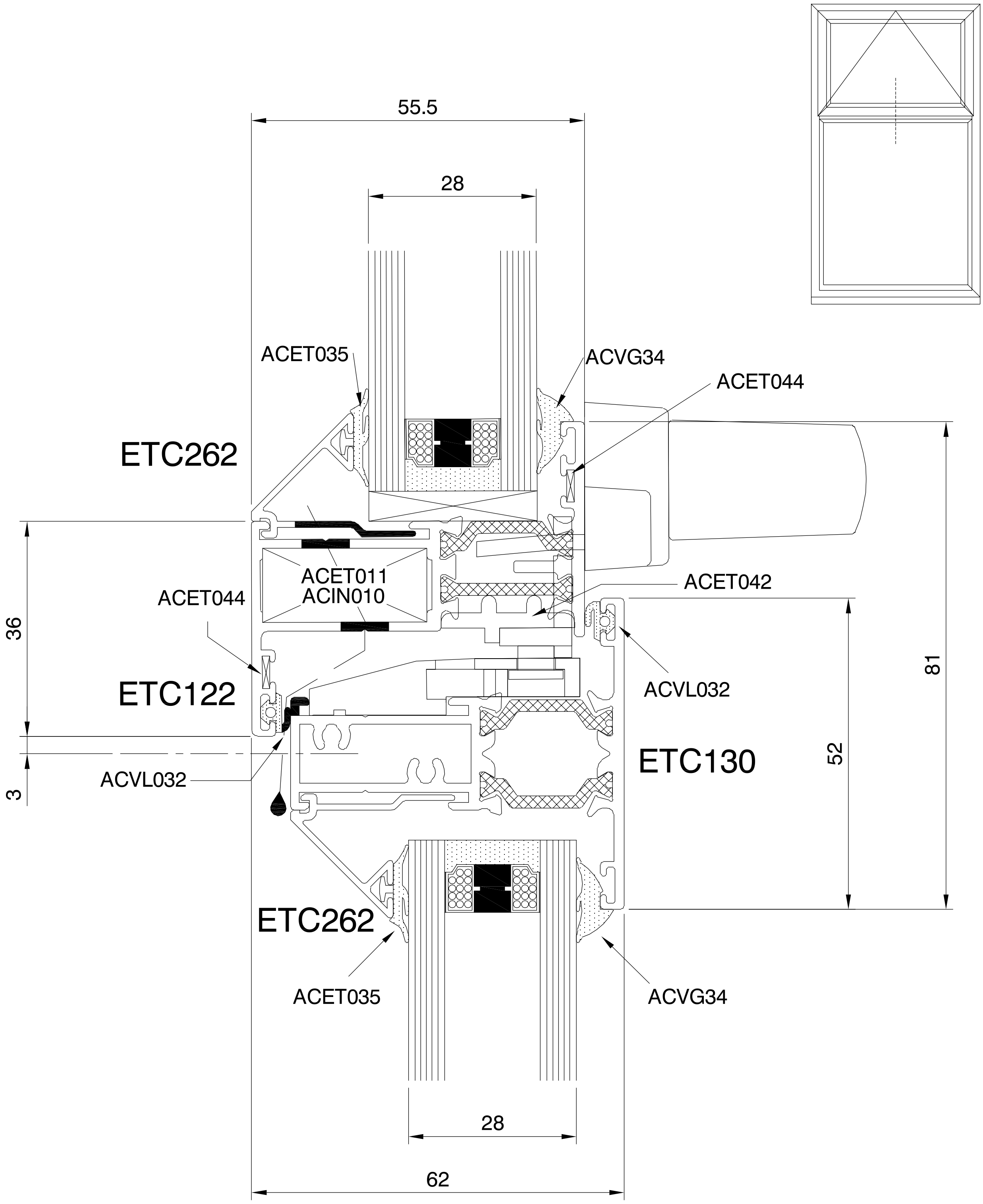


SECTION

9D



cETC-55-49-01

SECTION

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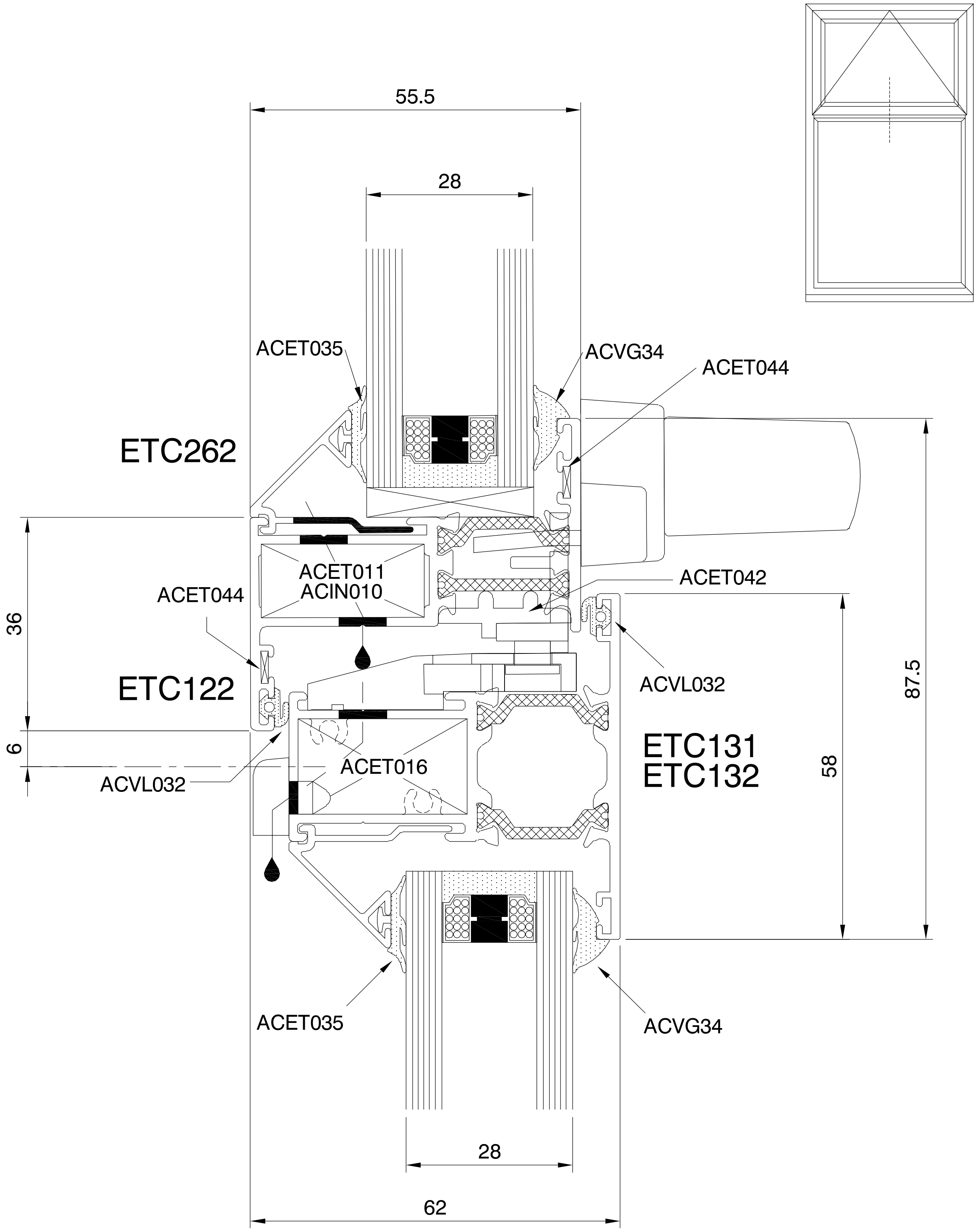
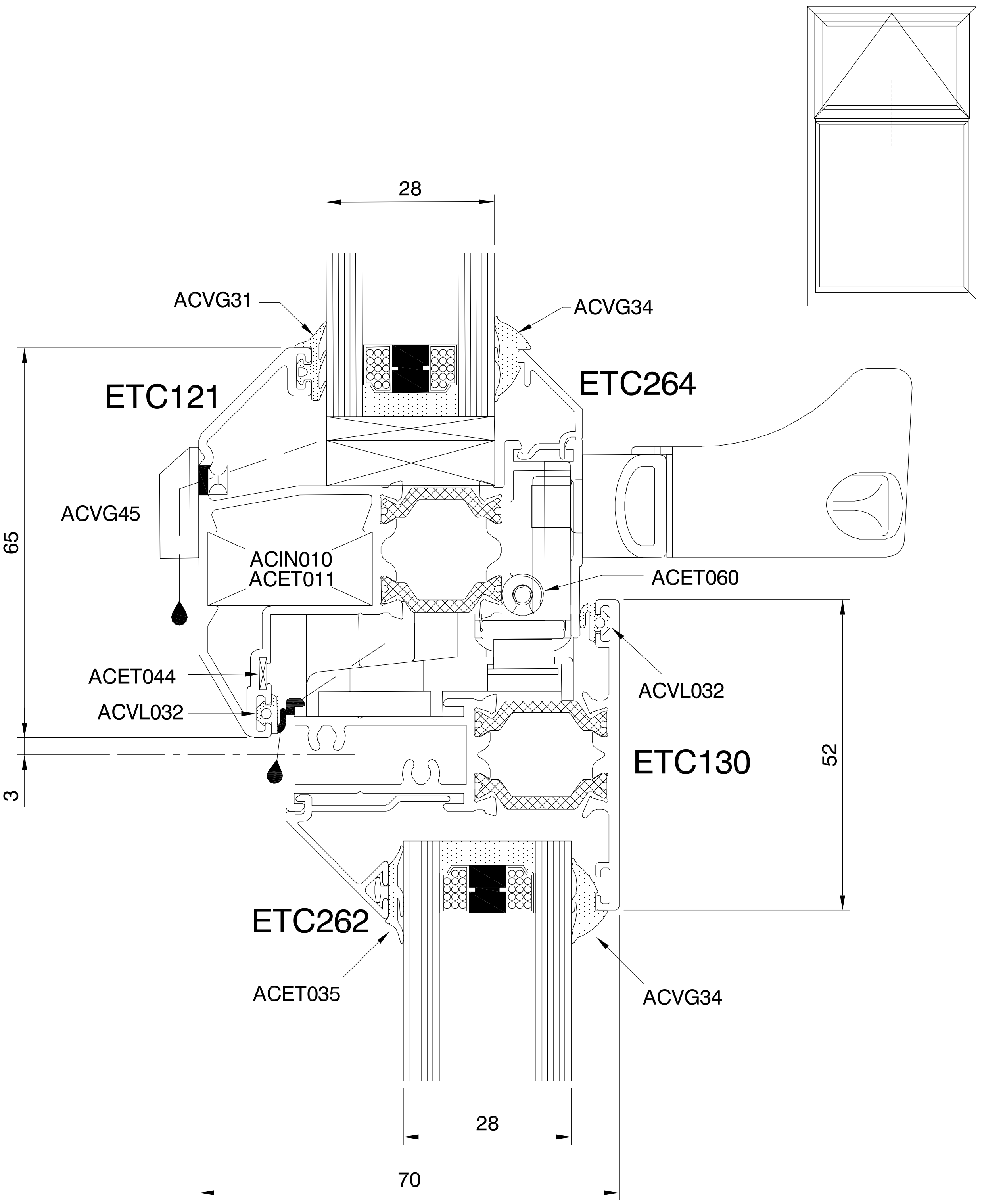


cETC-55-50-02

SECTION

9F



cETC-55-51-01

SECTION

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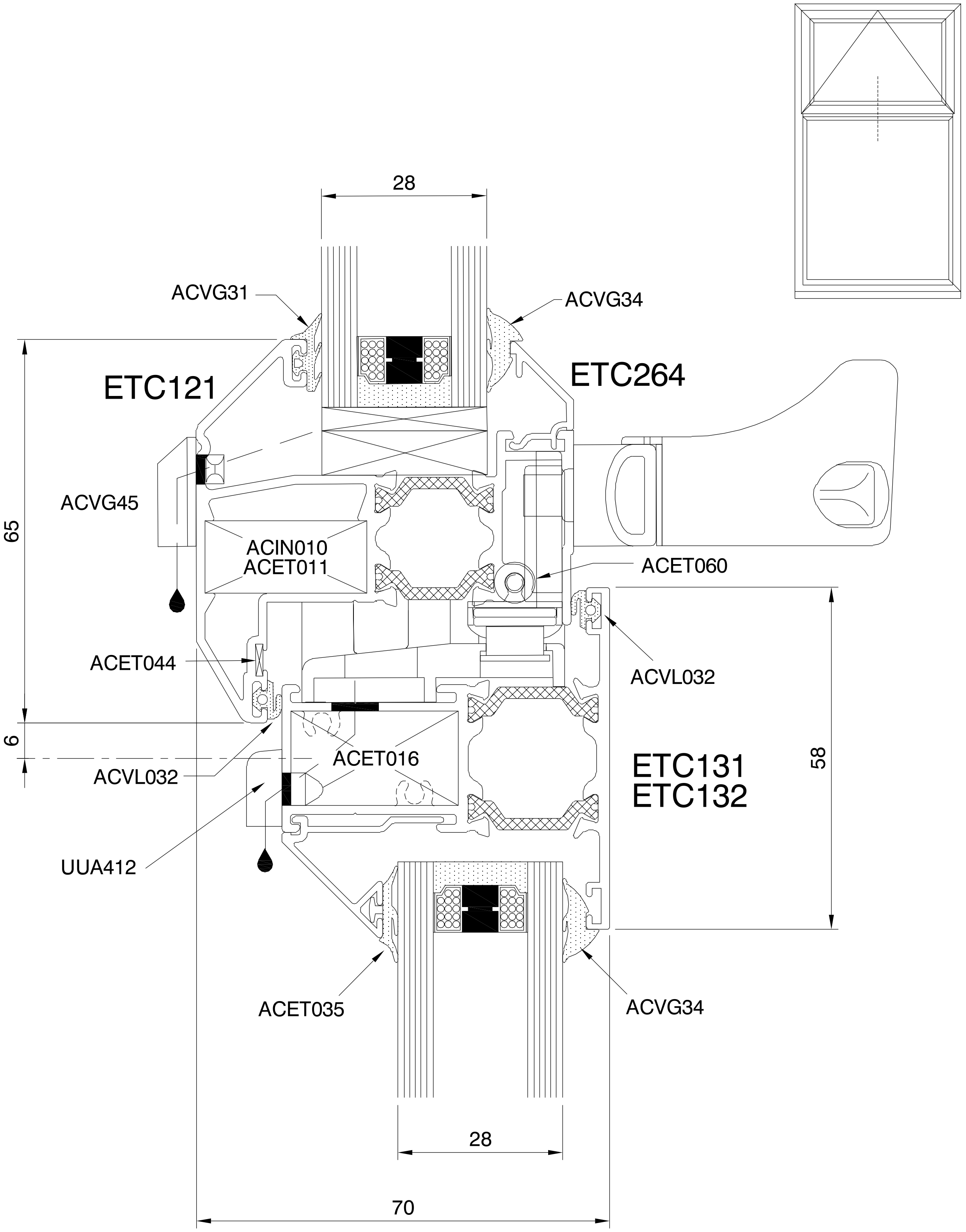
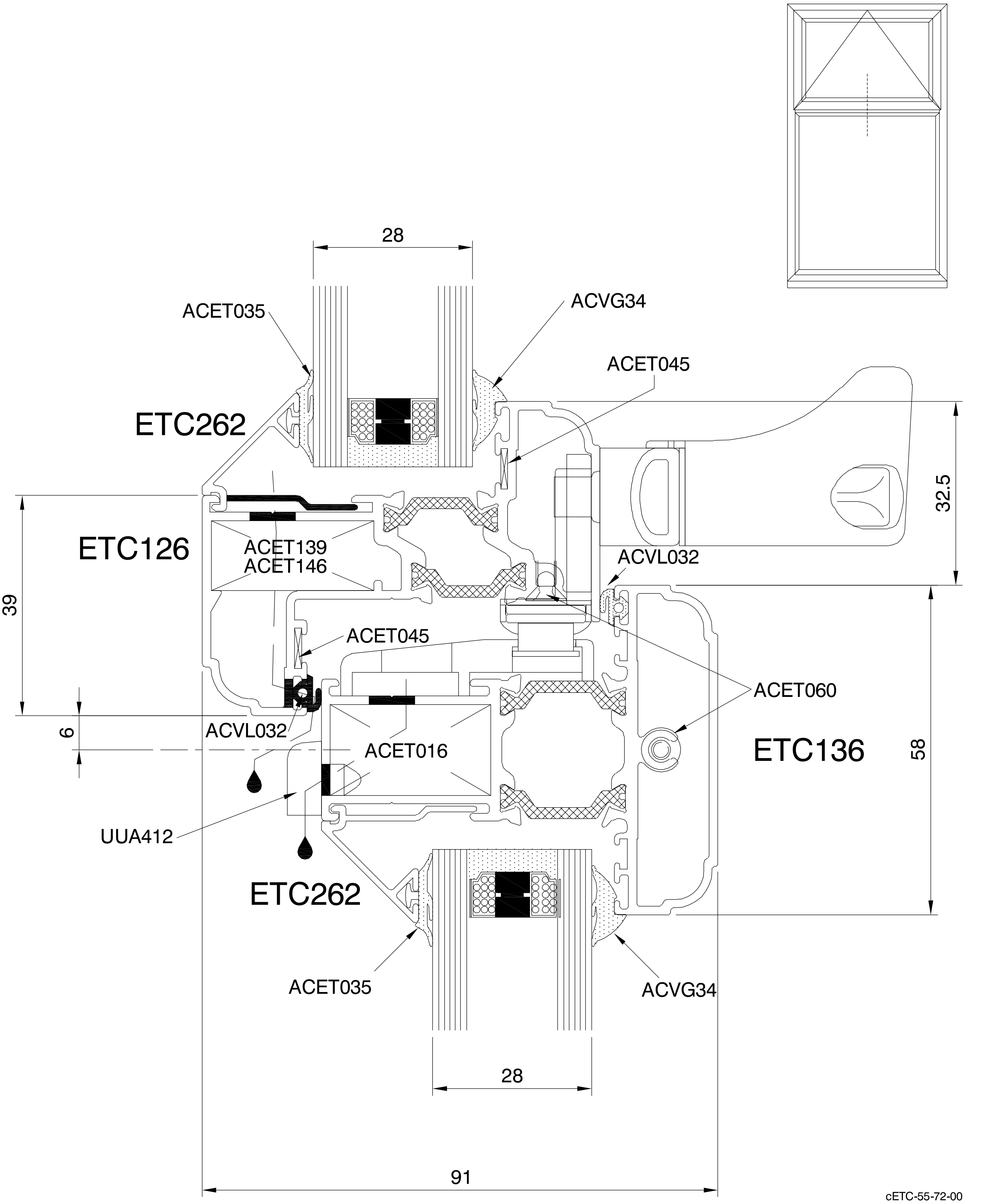


cETC-55-52-02

SECTION

9H



cETC-55-72-00

SECTION

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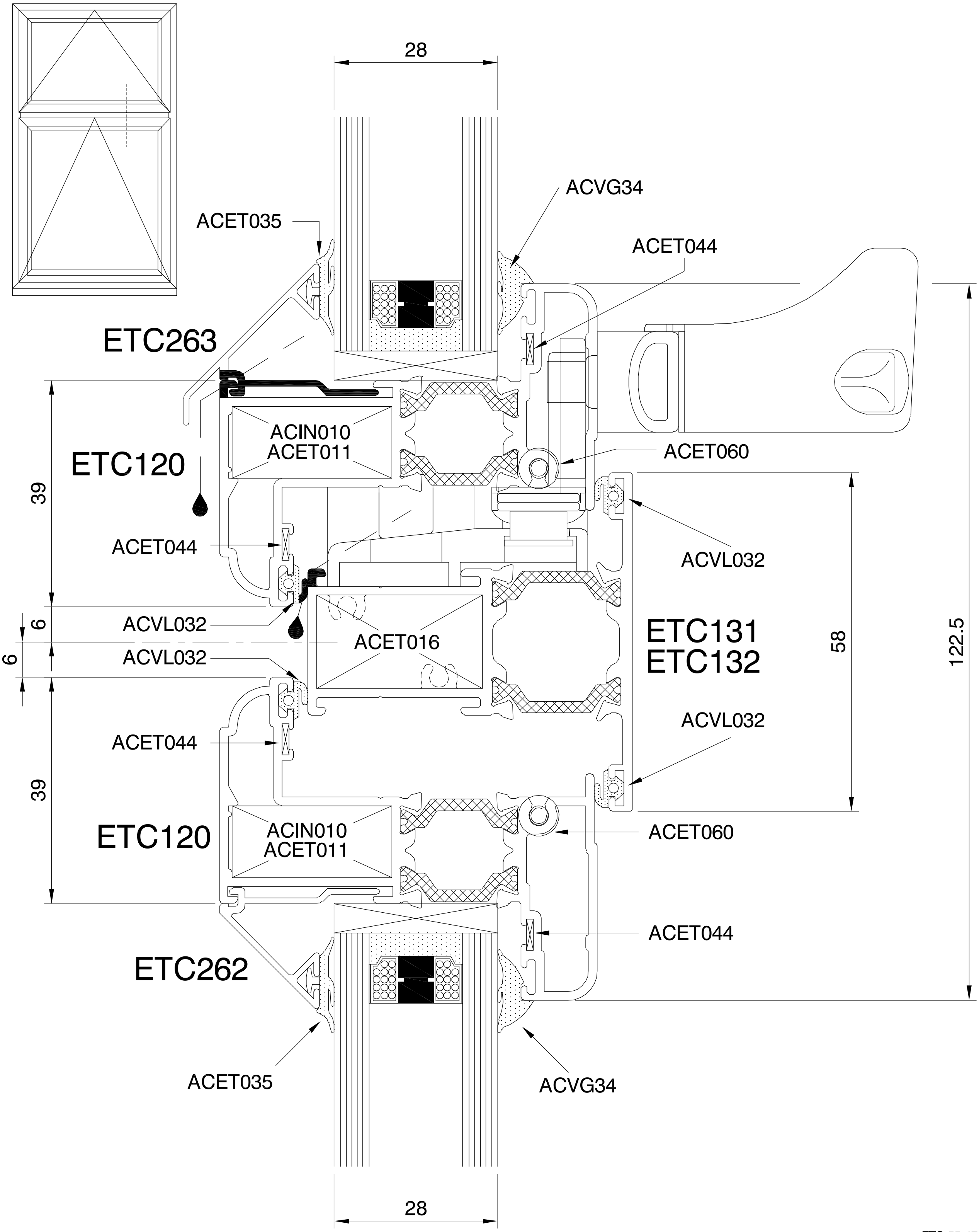
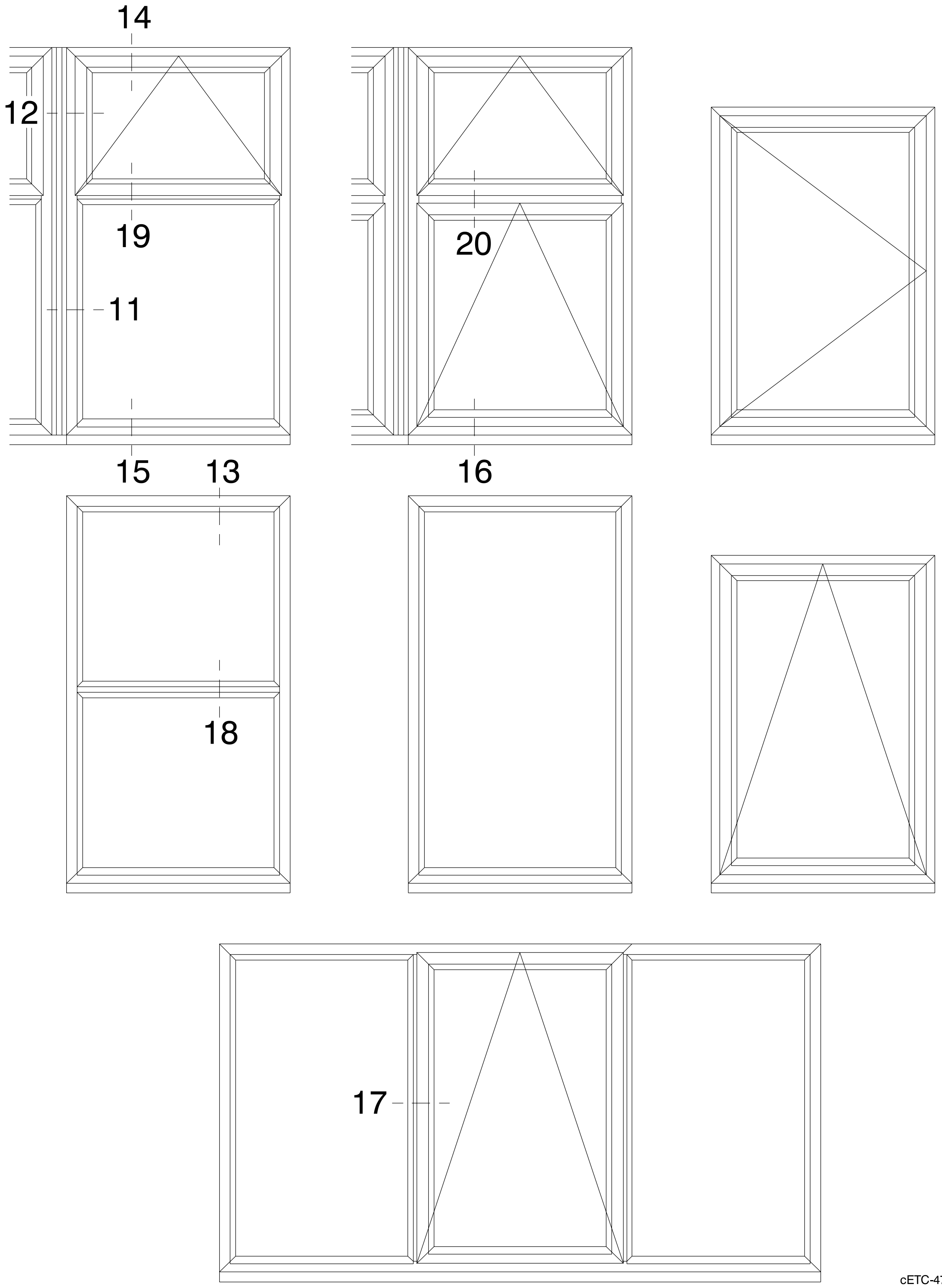


cETC-55-47-01

SECTION

ELEVATIONS

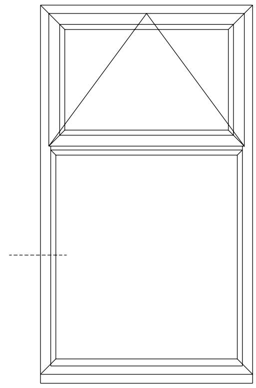


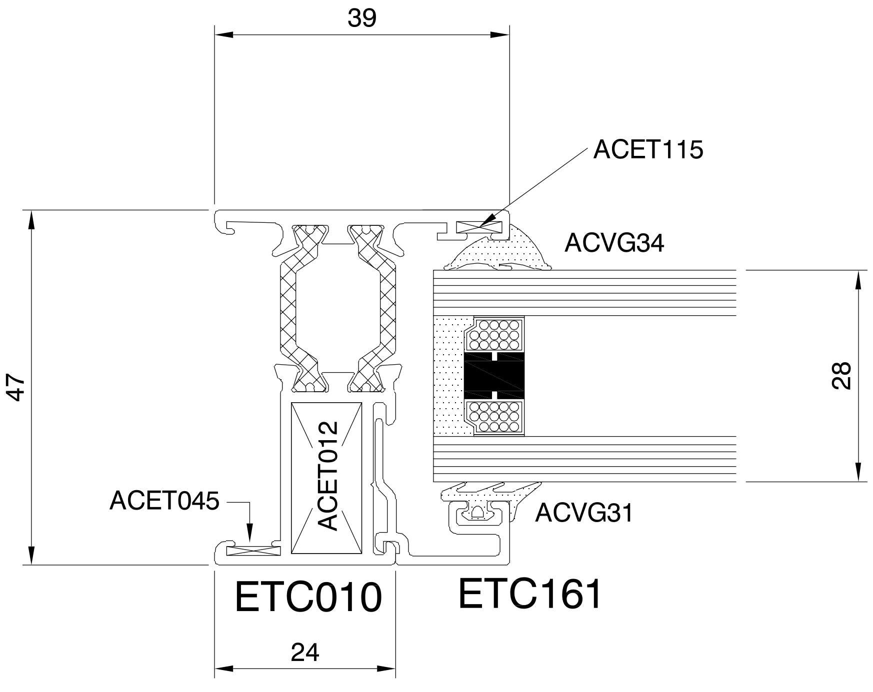
cETC-47-01-00

ALITHERM - 47

SECTION

11A





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SECTION

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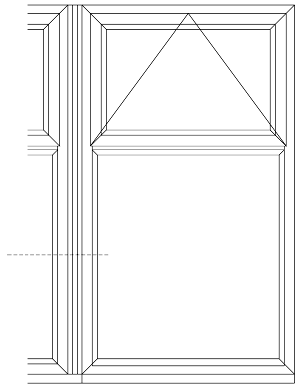
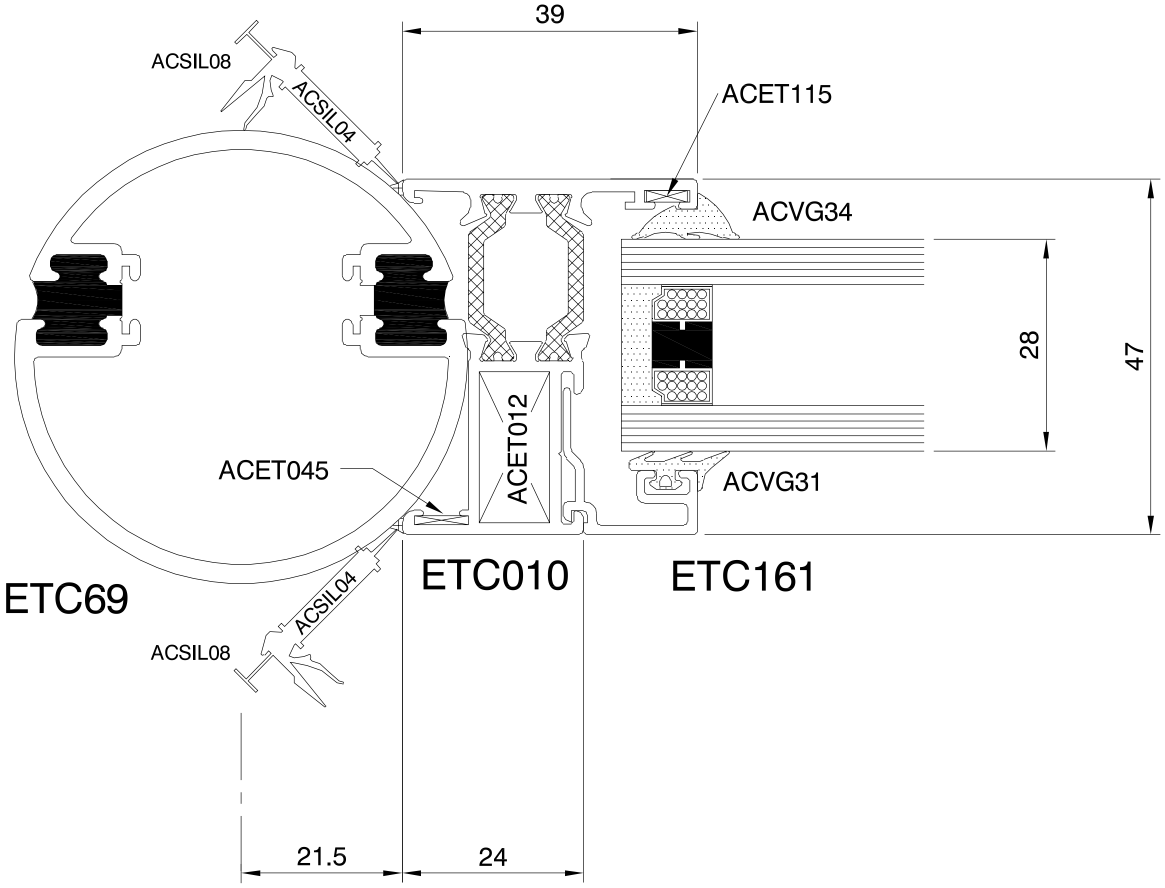


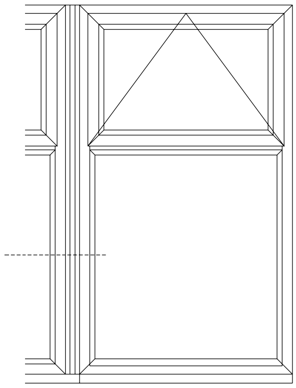


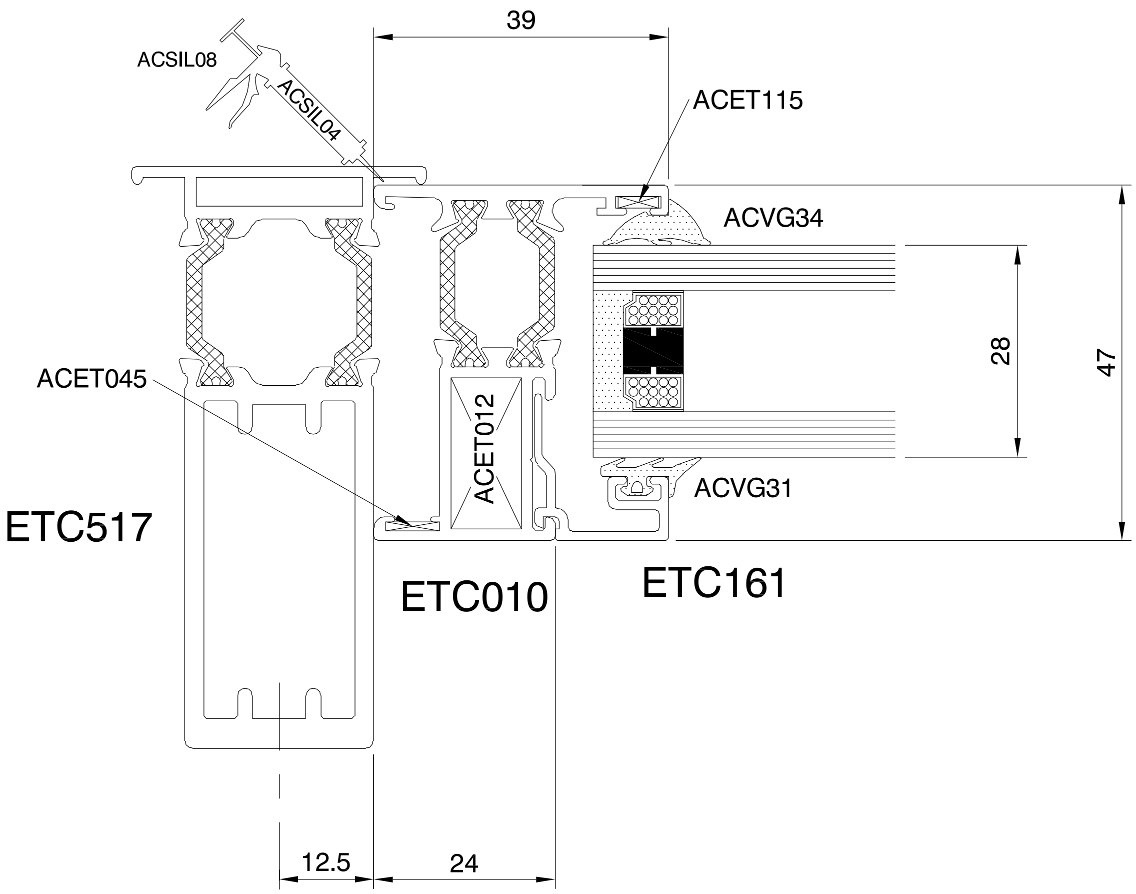
cETC-47-03-01

ALITHERM - 47

SECTION

11C

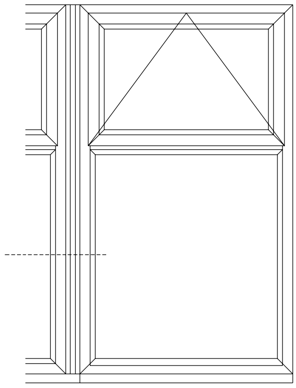


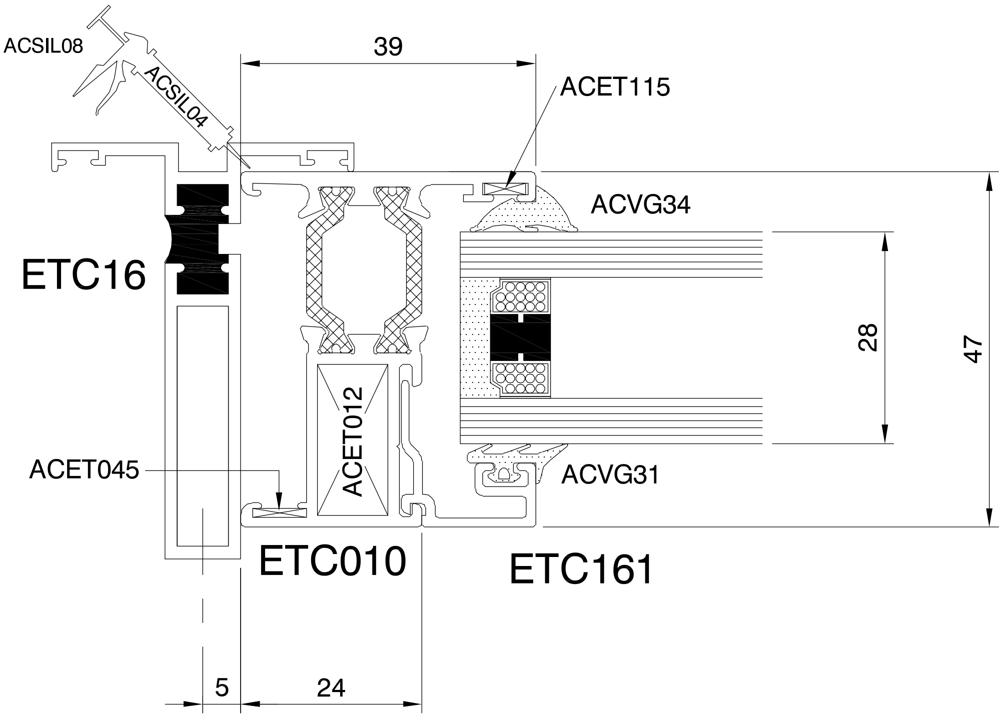


cETC-47-04-01

SECTION

11D





cETC-47-05-01

SECTION

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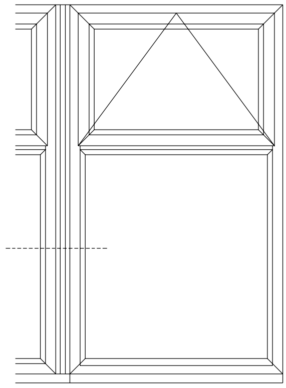

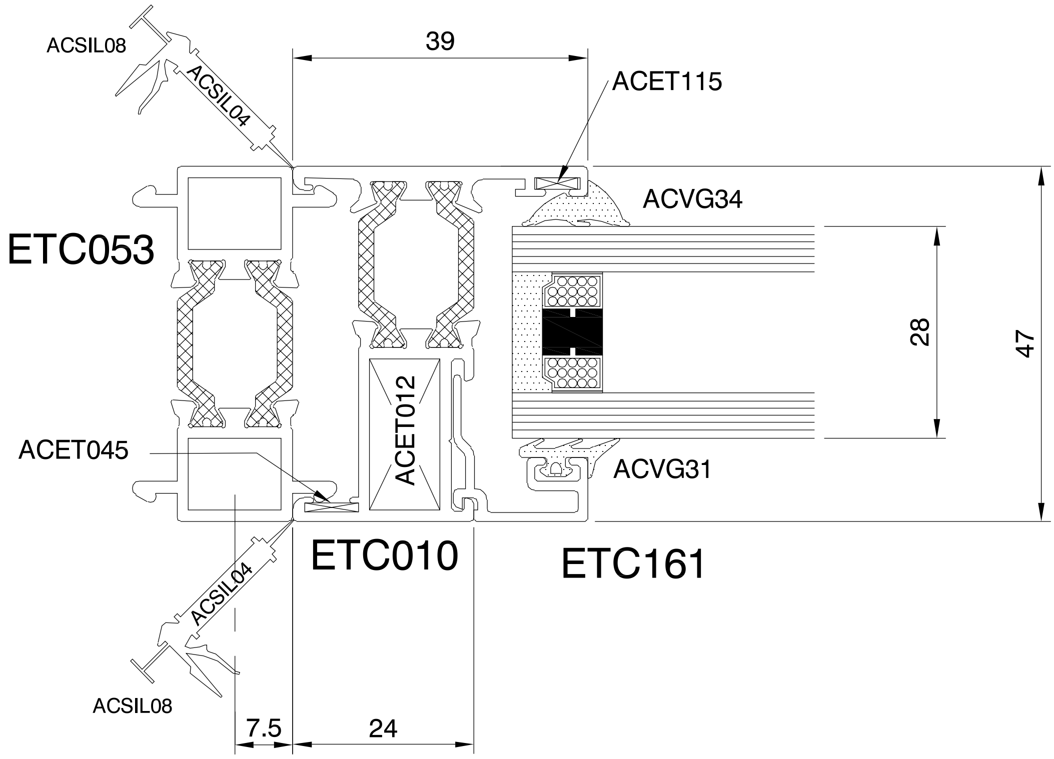

cETC-47-06-01

SECTION

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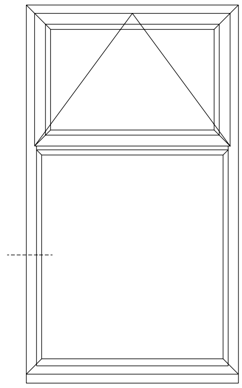
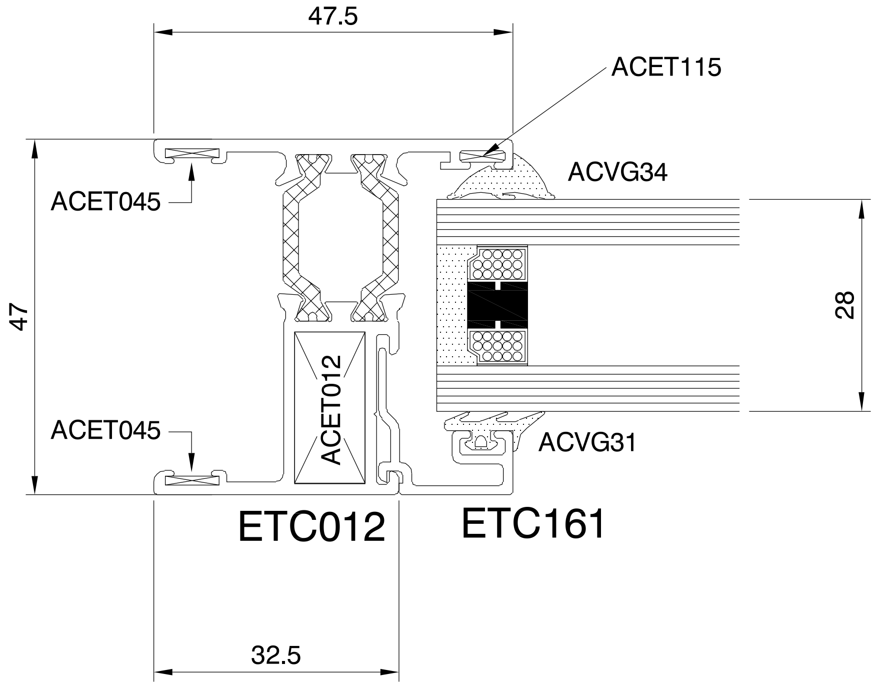


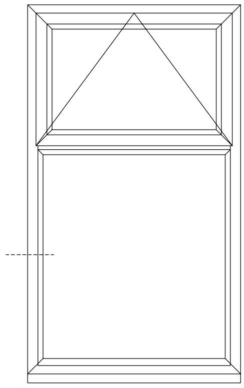


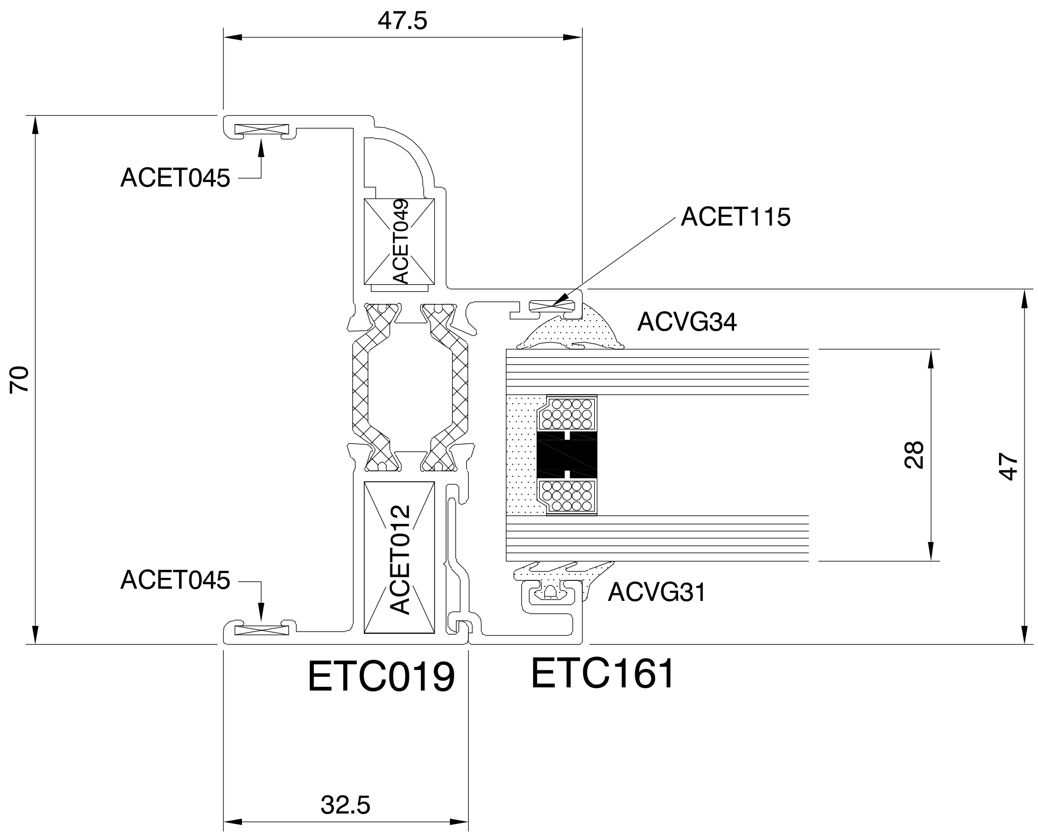
cETC-47-34-01

ALITHERM - 47

SECTION

11G

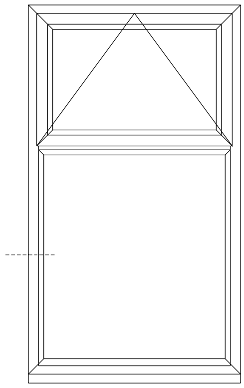


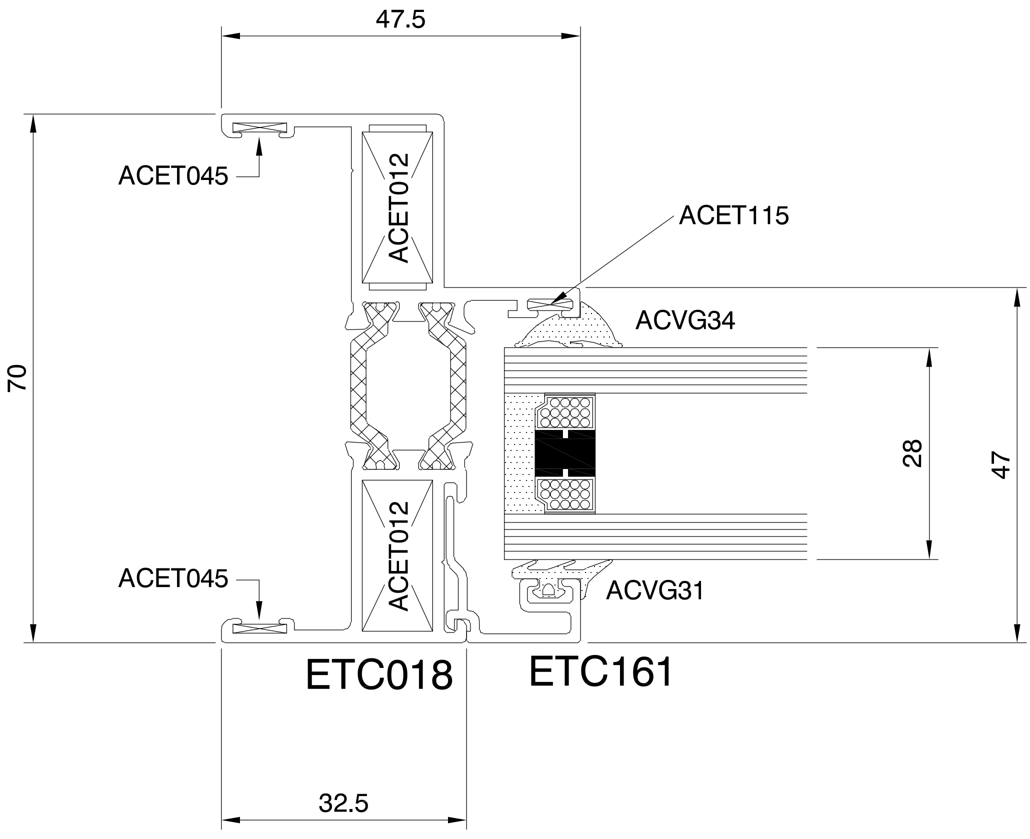


cETC-47-35-01

SECTION

11H



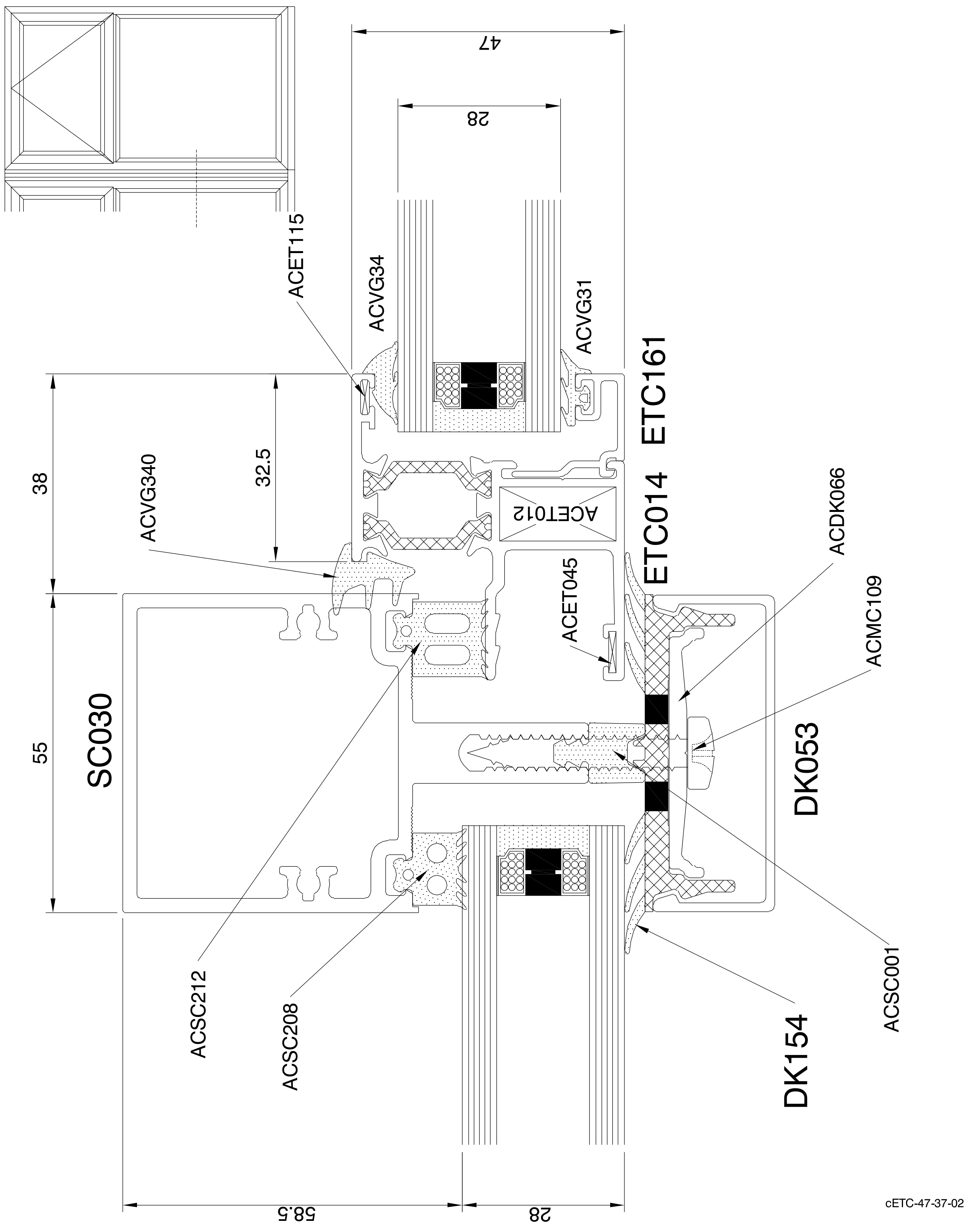


cETC-47-36-01

ALITHERM - 47

SECTION

11l



cETC-47-37-02

SECTION

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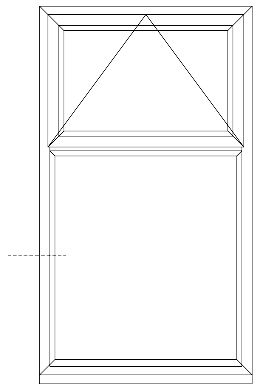
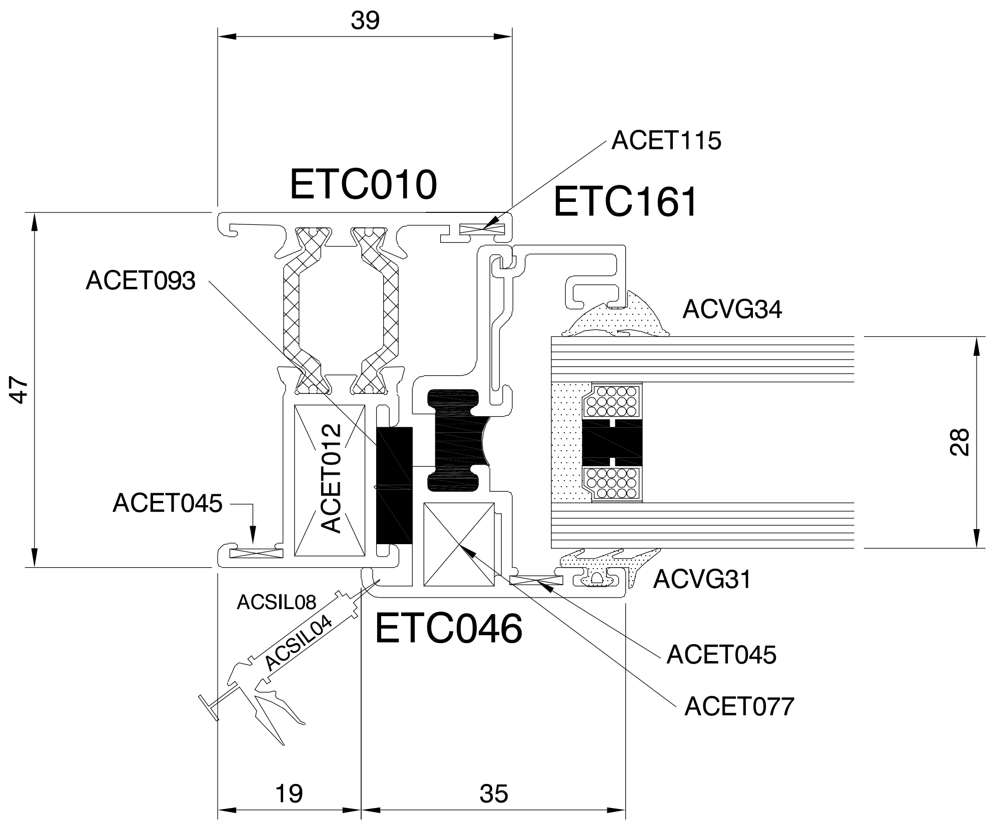


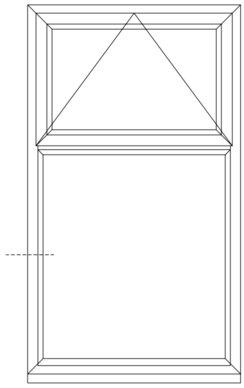


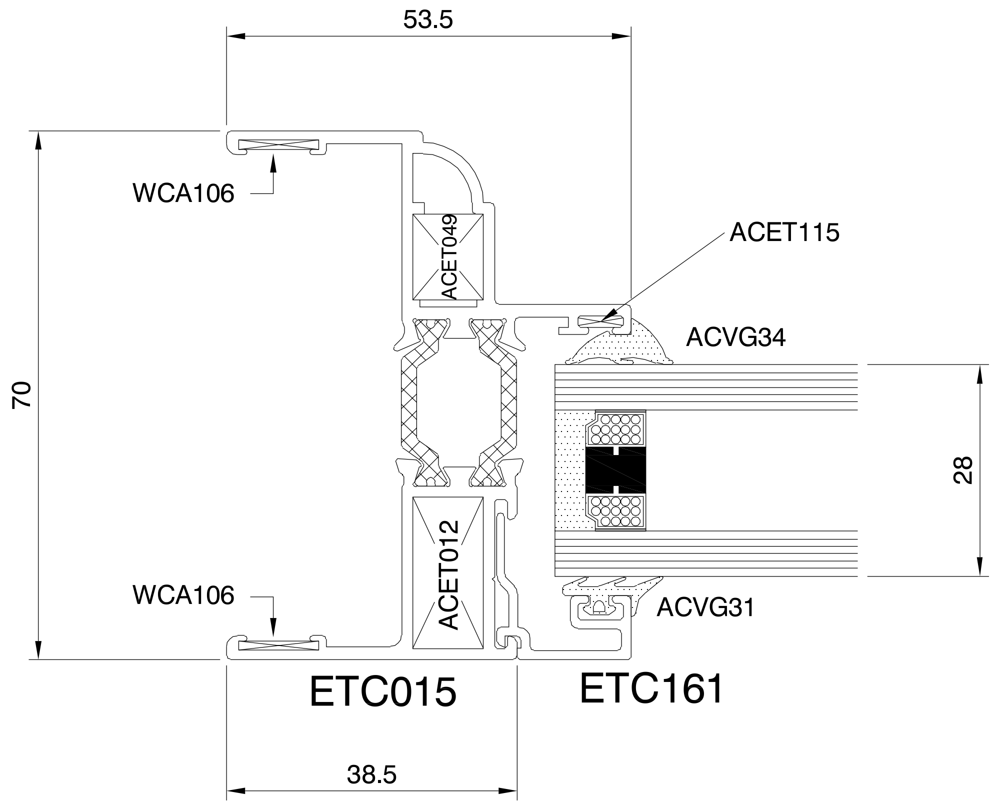
cETC-47-55-01

ALITHERM - 47

SECTION

11K

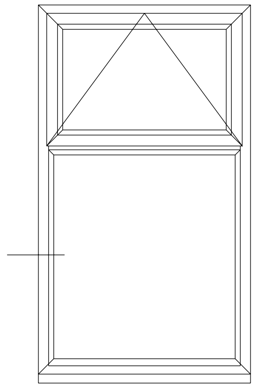


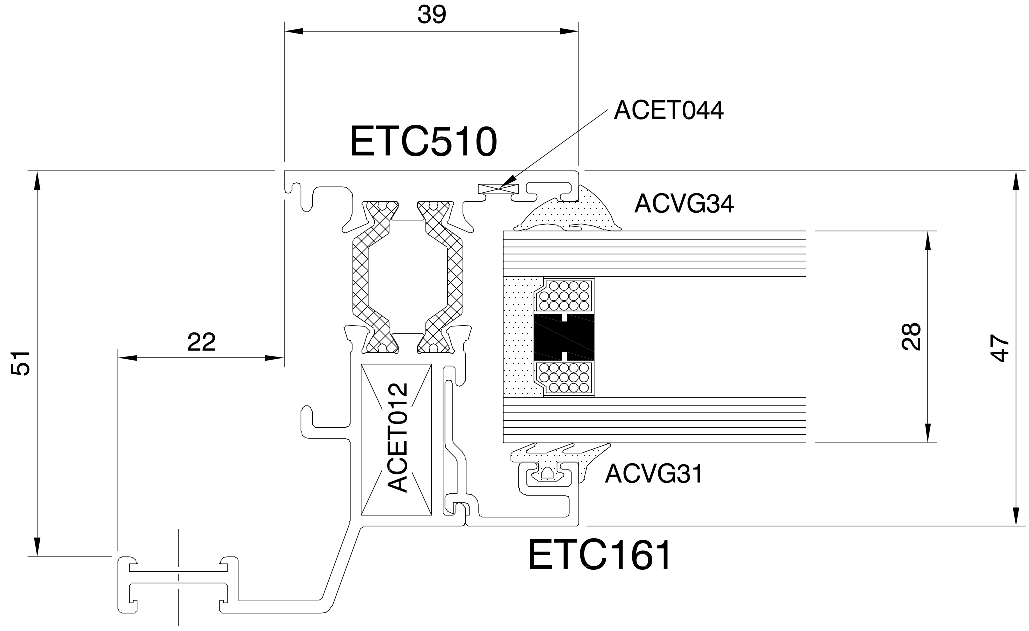


cETC-47-56-00

SECTION

11L

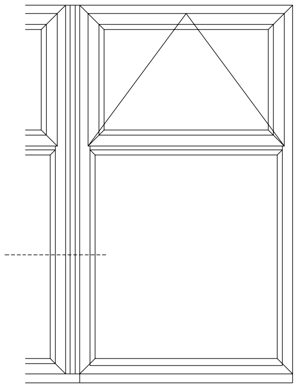


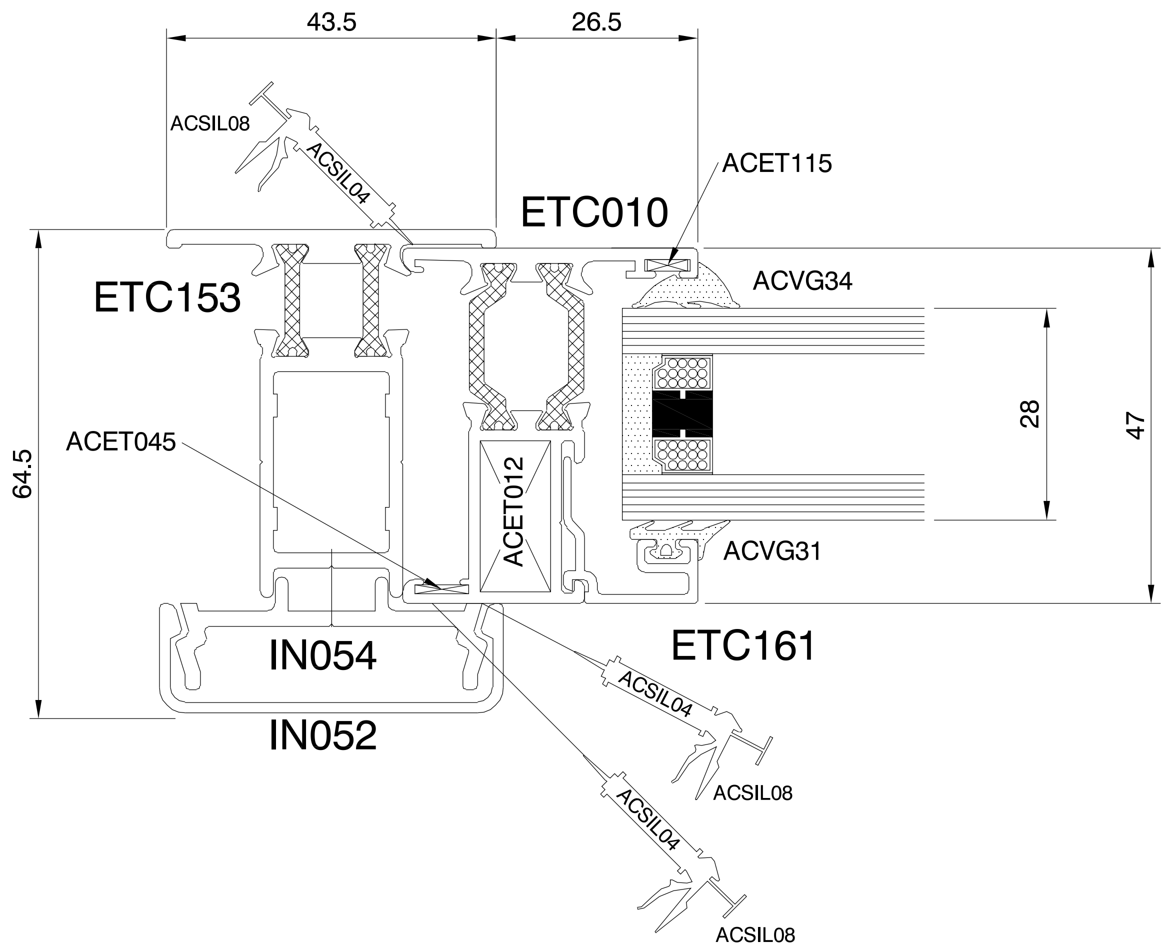


cETC-47-62-00

SECTION

11M

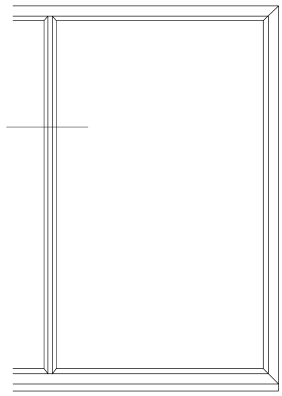


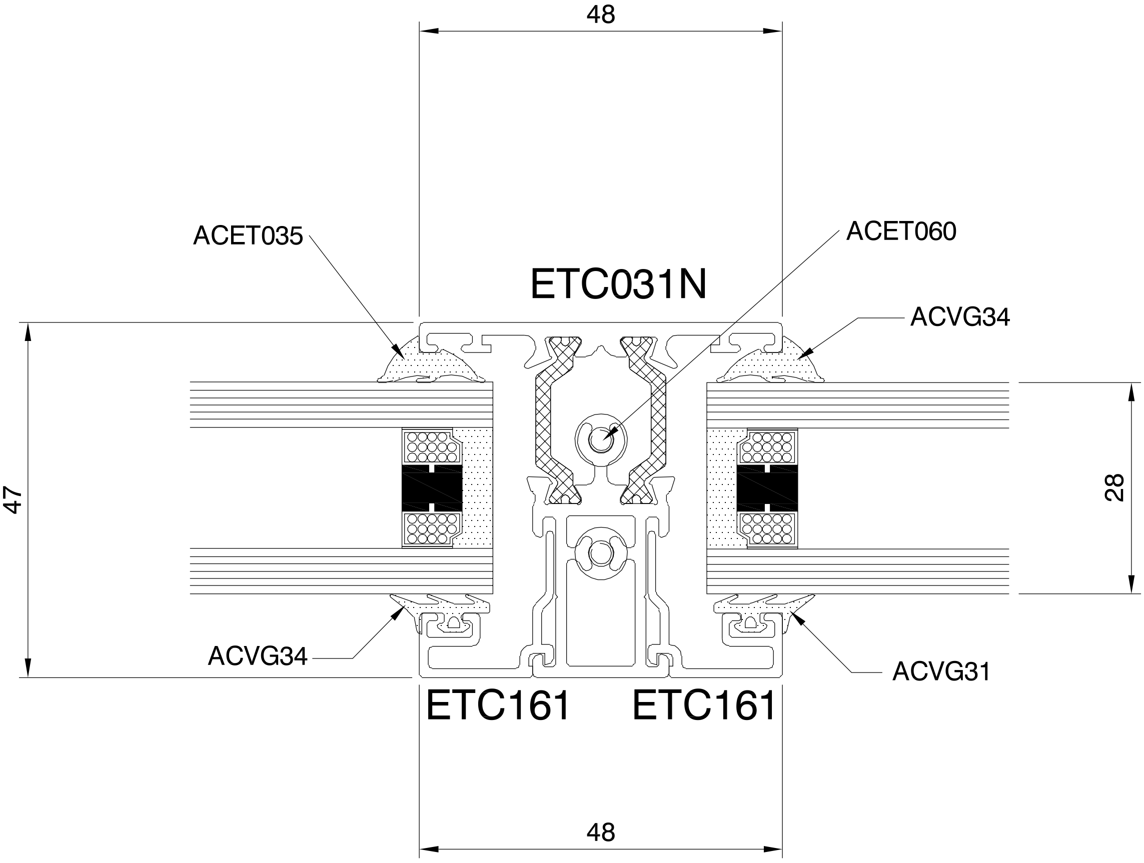


cETC-47-64-00

SECTION

11N



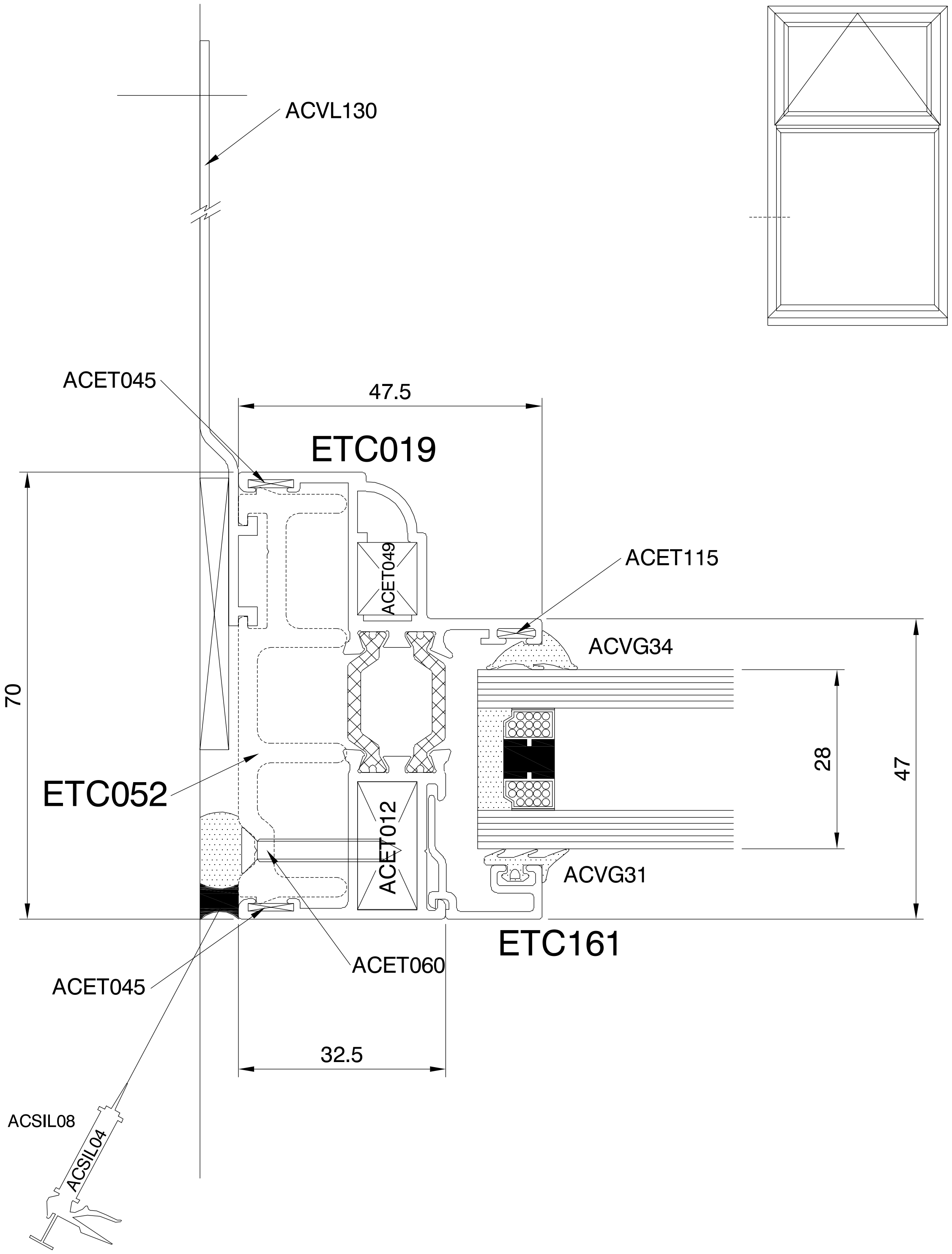


cETC-47-65-01

ALITHERM - 47

SECTION

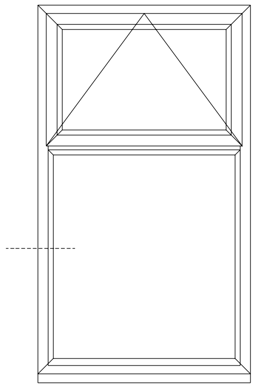
11O

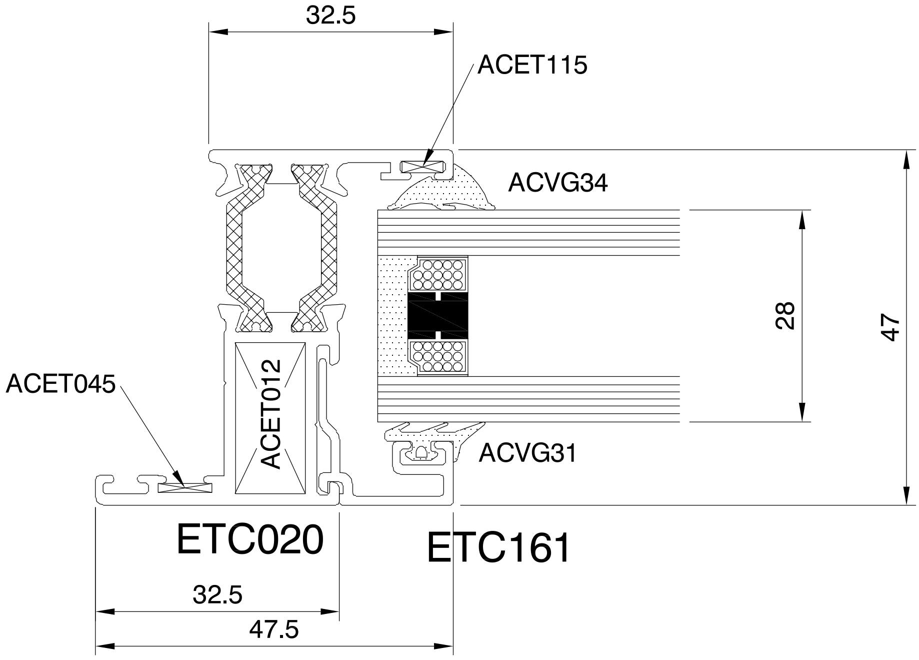


cETC-47-69-00

SECTION

11P





cETC-47-72-00

SECTION

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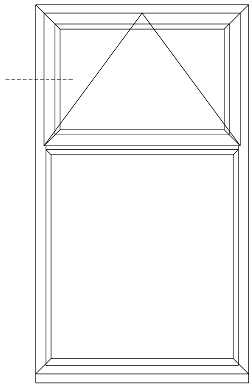
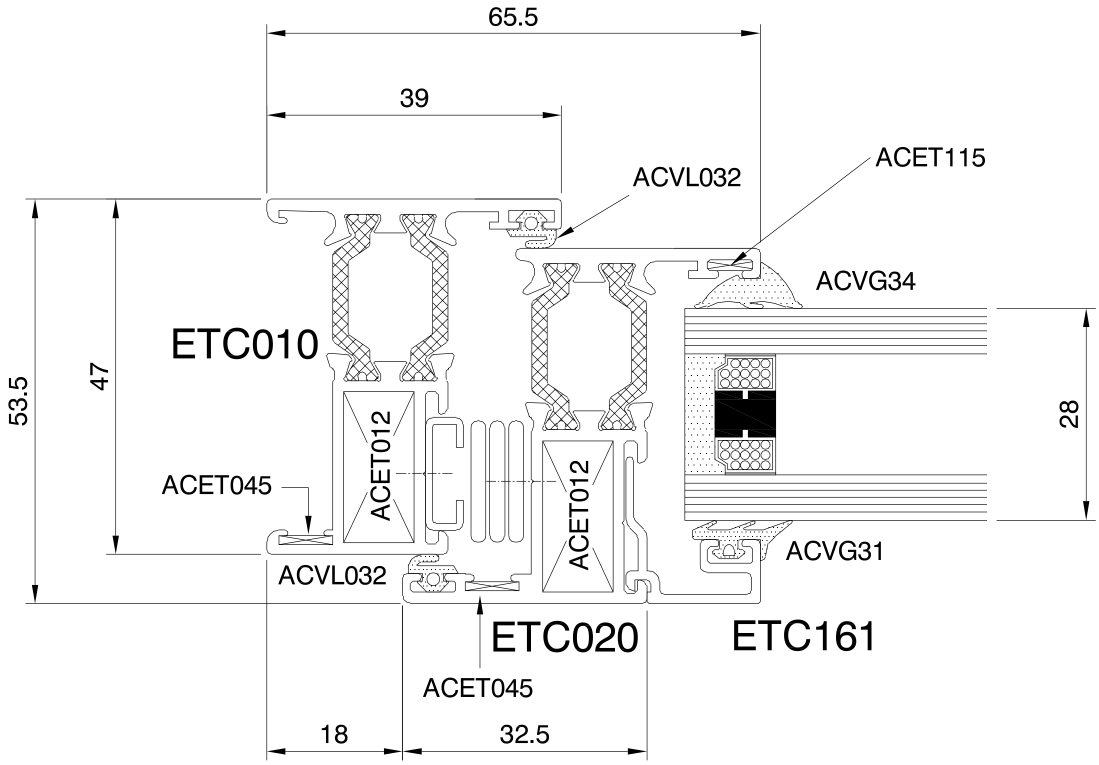
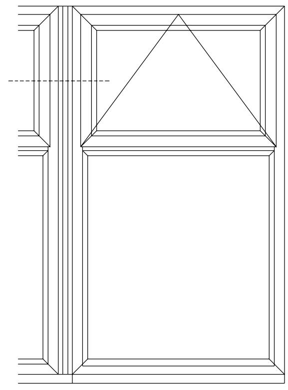


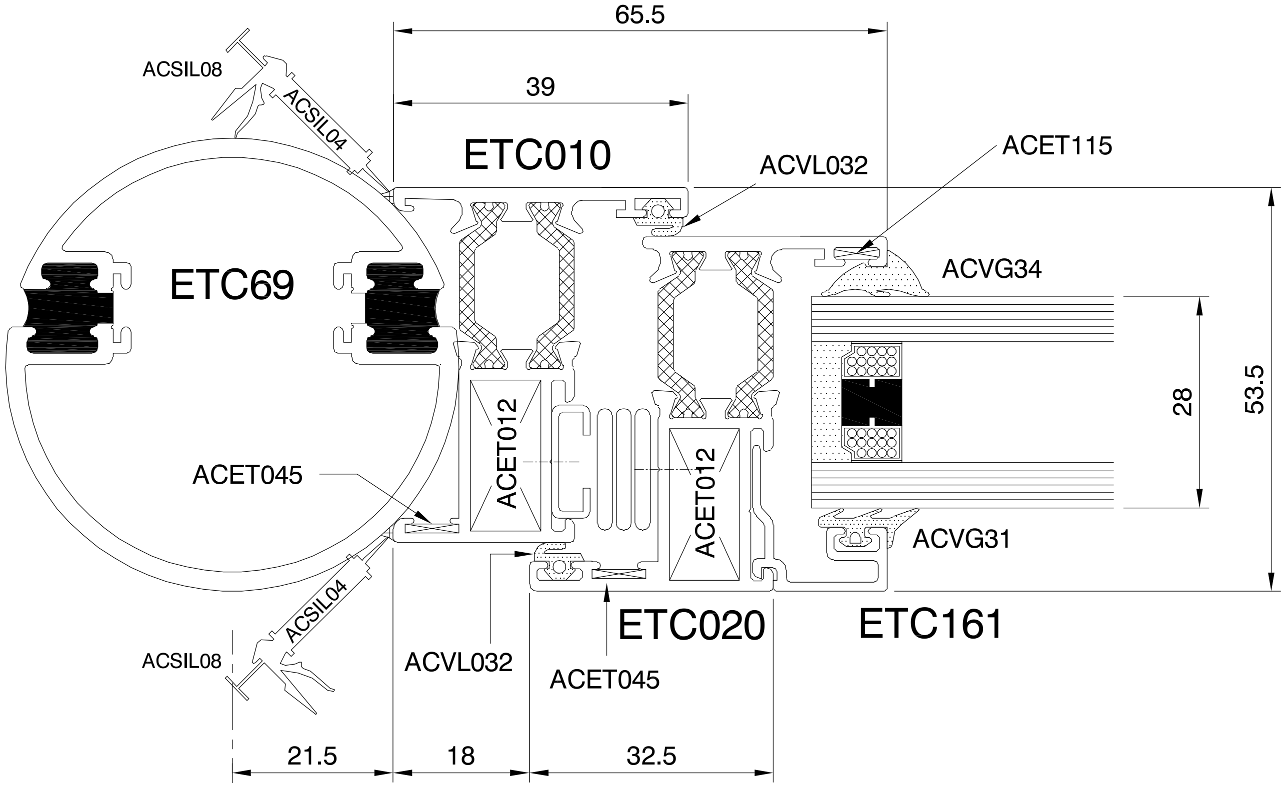


cETC-47-07-01

SECTION

12B

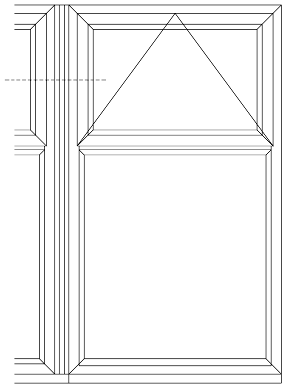


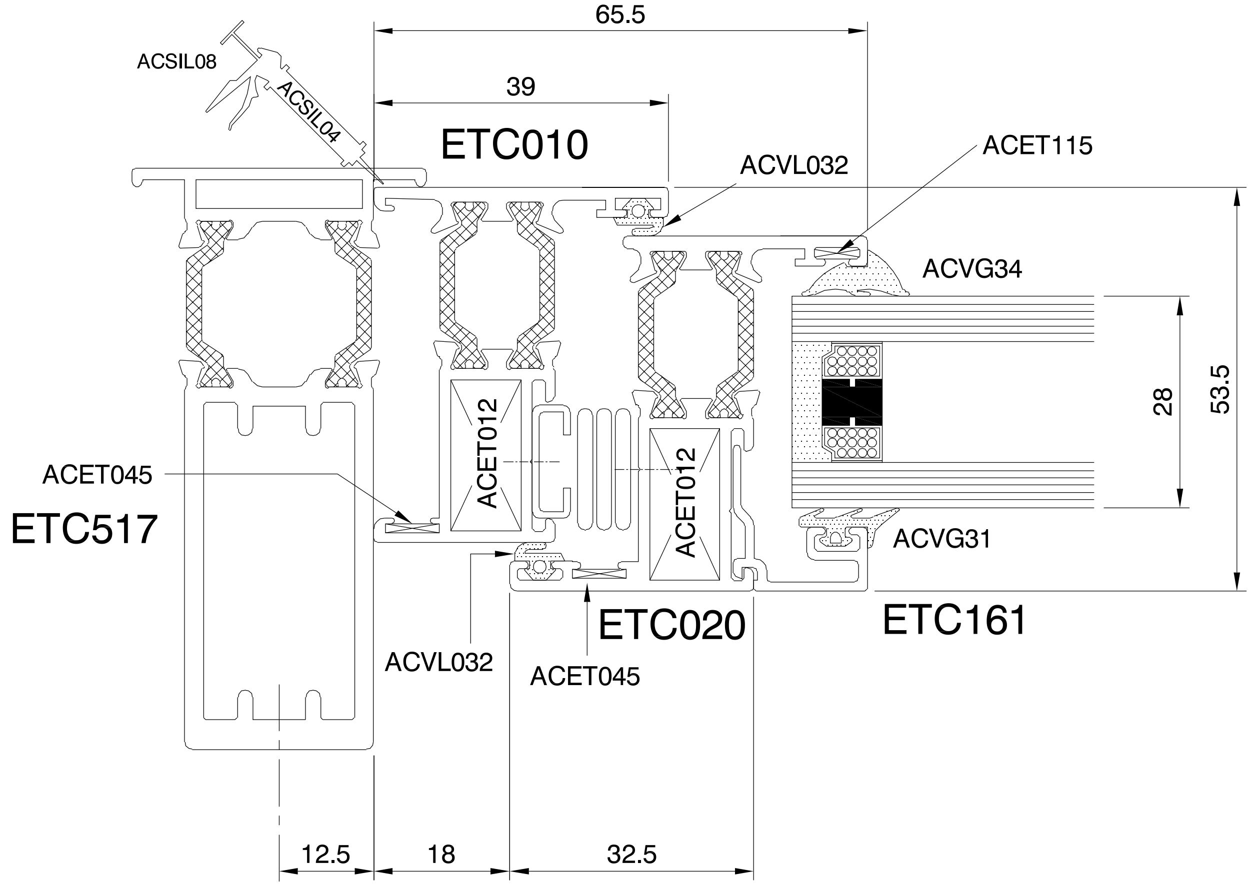


cETC-47-09-02

SECTION

12C





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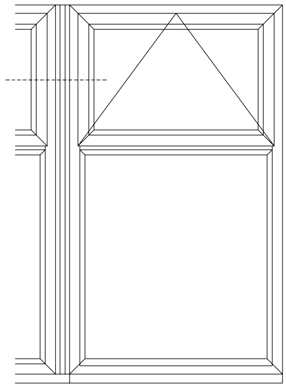
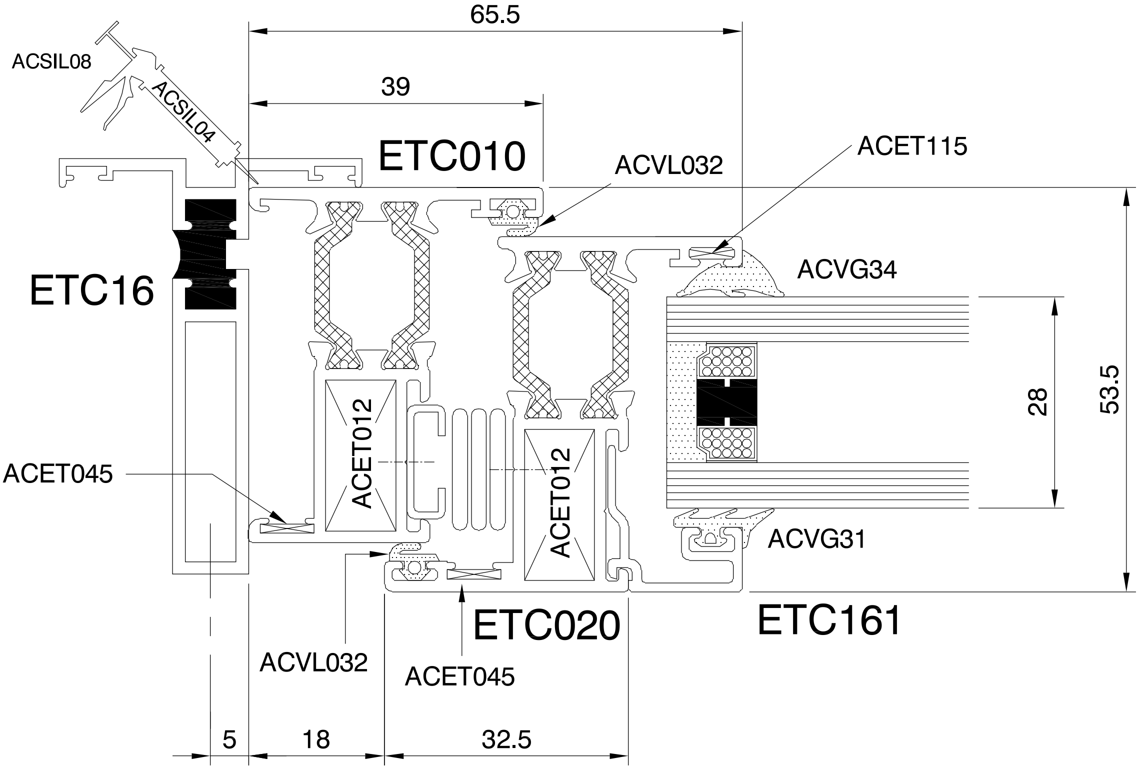
SECTION

12D





cETC-47-11-02

SECTION

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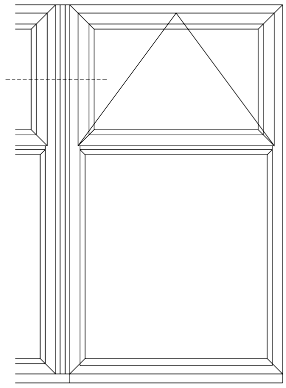

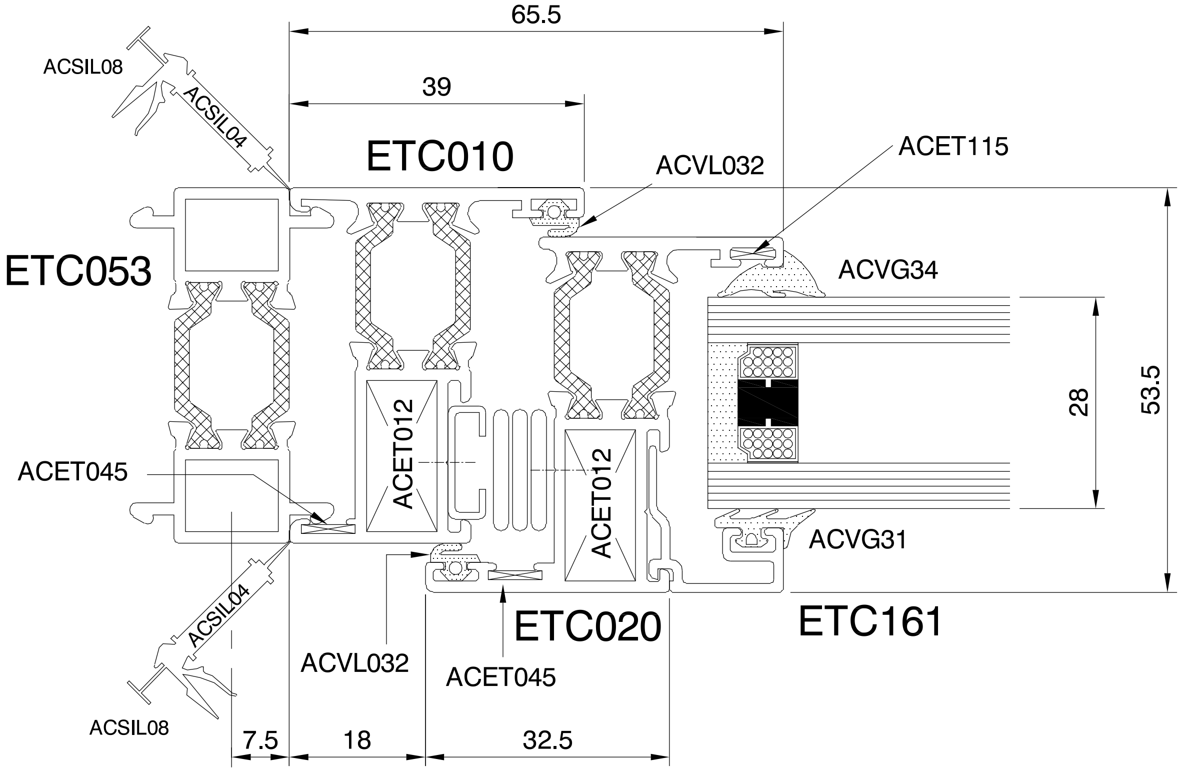

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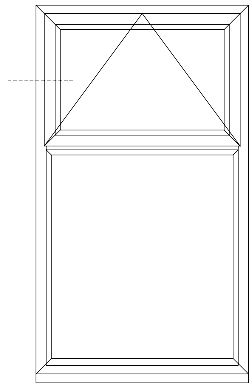
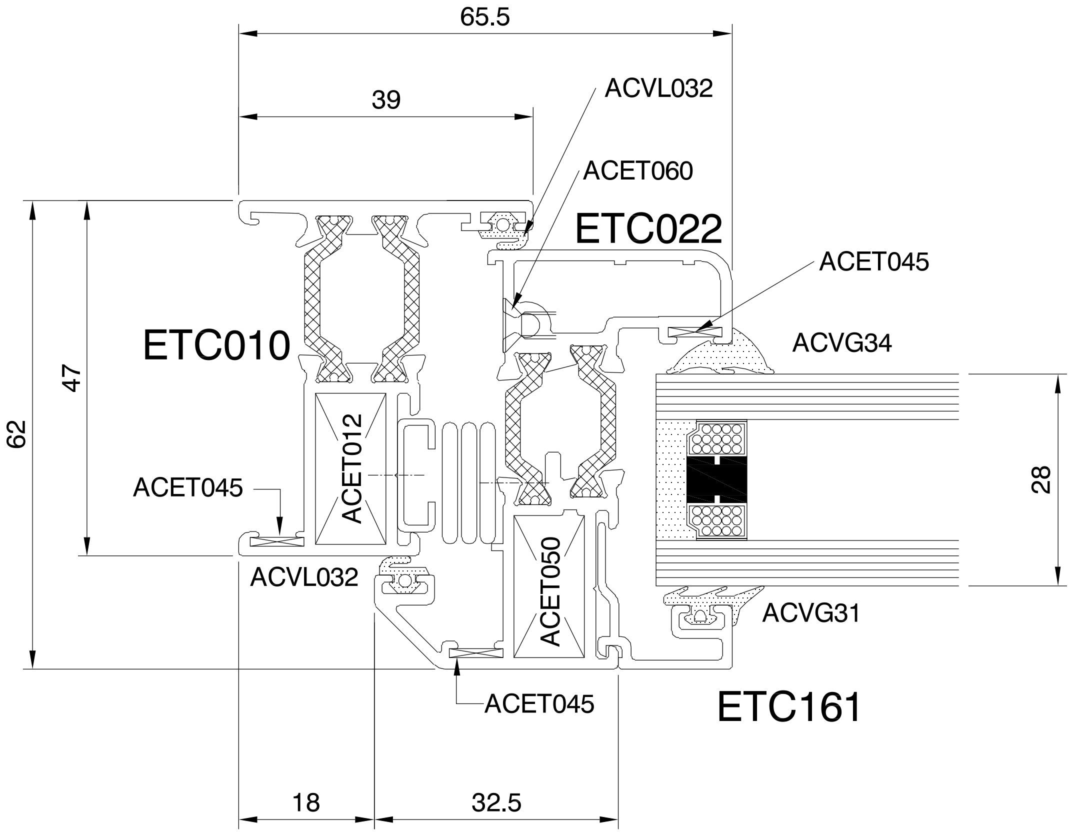
SECTION

12F

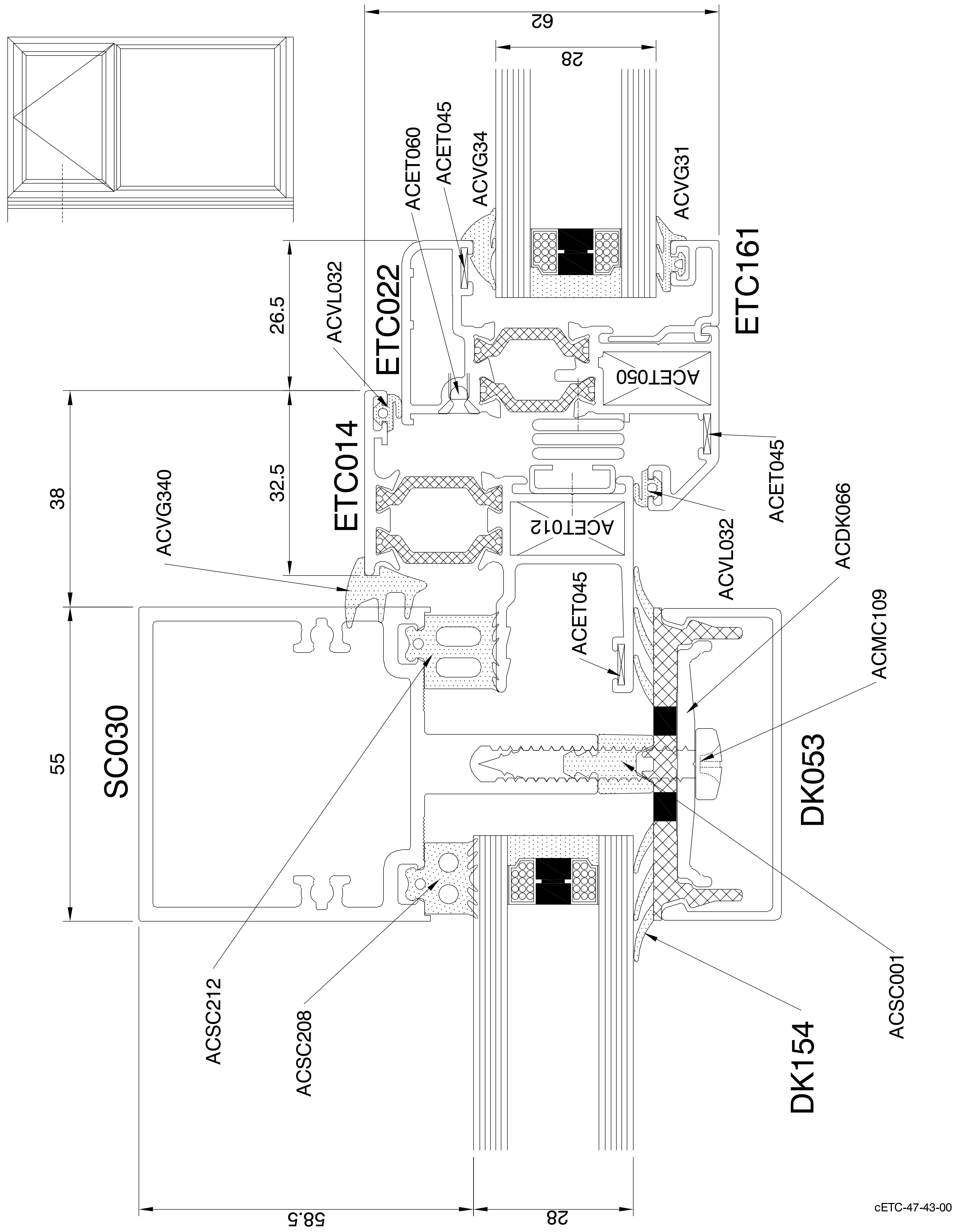




cETC-47-39-01

SECTION

12G


62
28
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ACET045
ACVG34
ACVG31
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ETC161
ACET050
ACET045
38
32.5
ETC014
ACVG340
ACET012
ACVL032
ACDK066
ACET045
ACMC109
55
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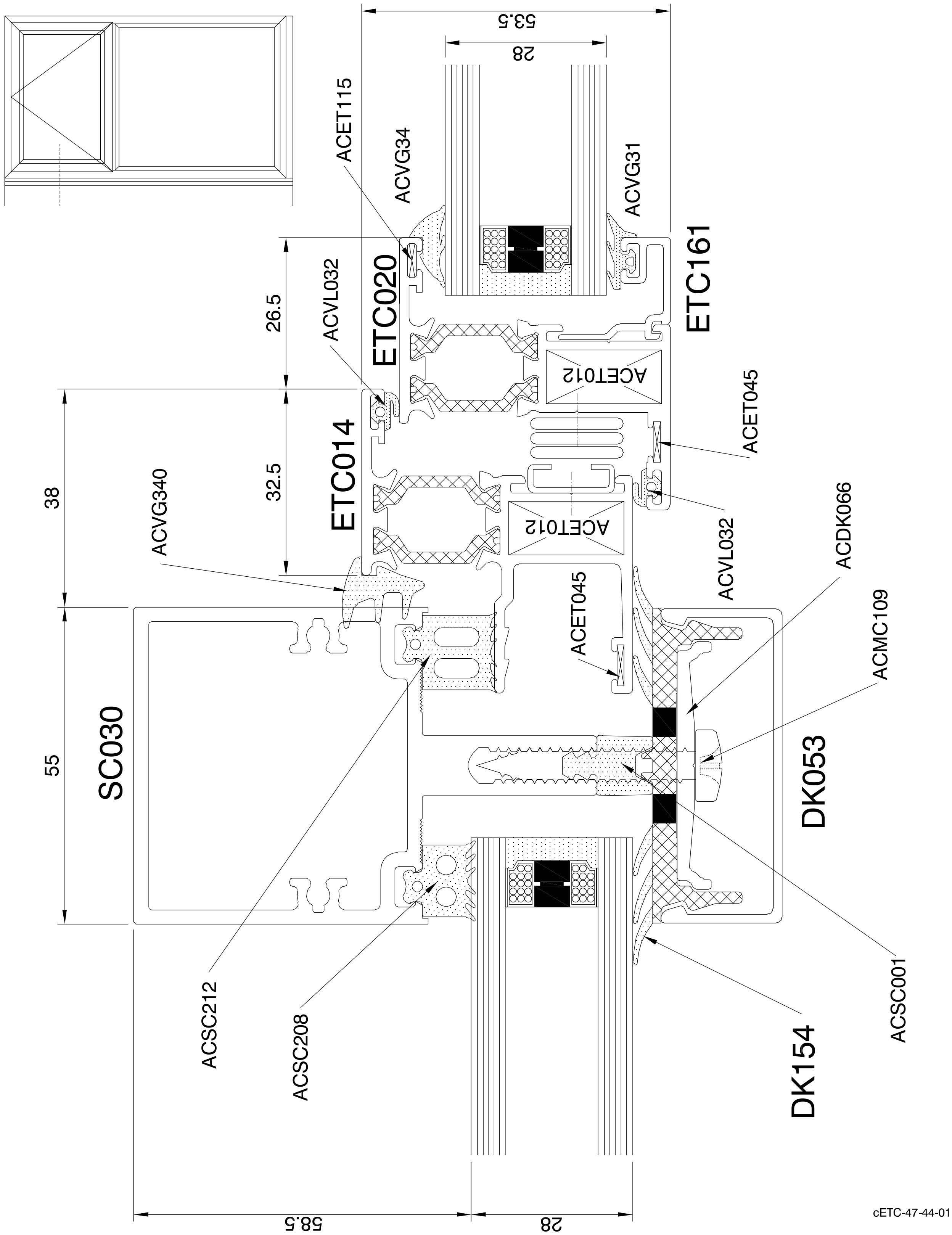
28
cETC-47-43-00

SECTION

12H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26.5
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38
32.5
ACVG340
ETC014
ACET012
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ACDK066
ACET045
ACMC109
55
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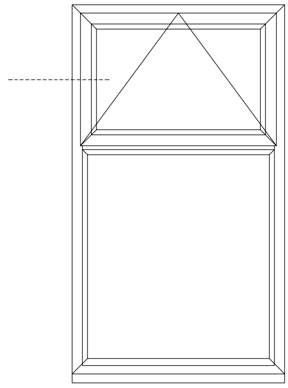
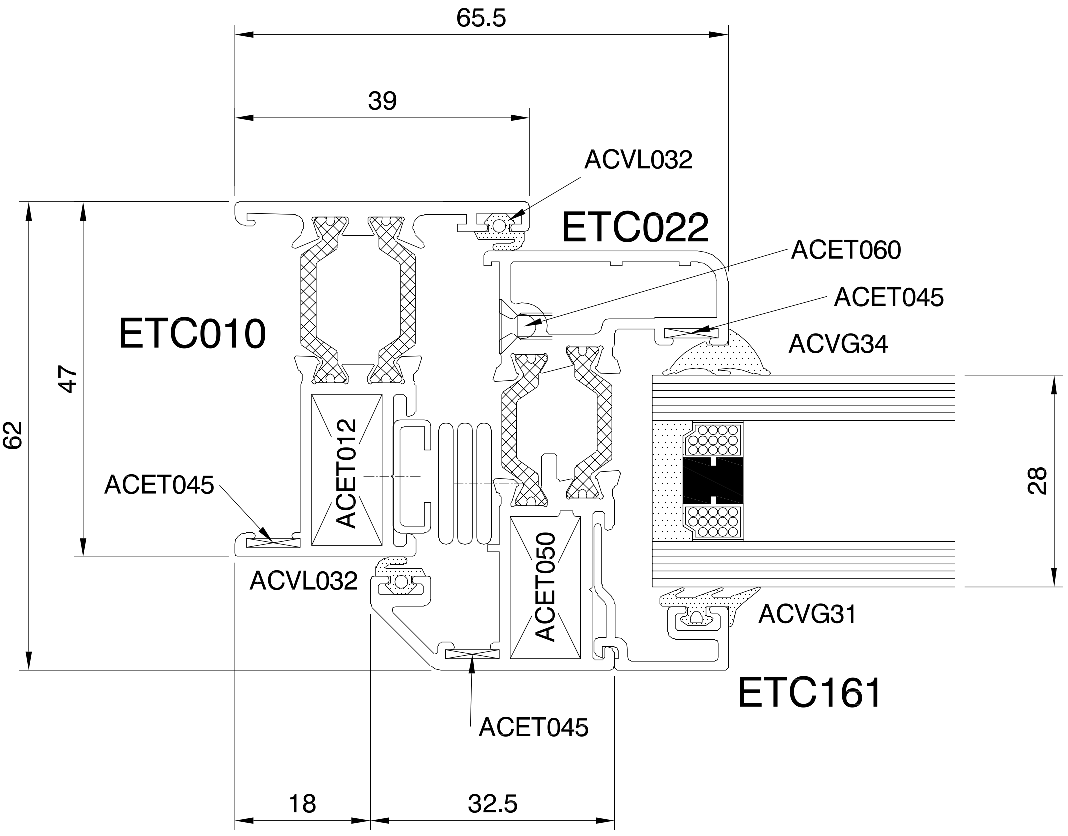
58.5
28

ALITHERM - 47

SECTION

12I





cETC-47-45-00

SECTION

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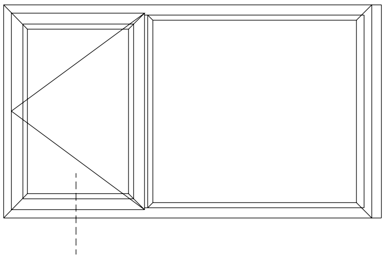
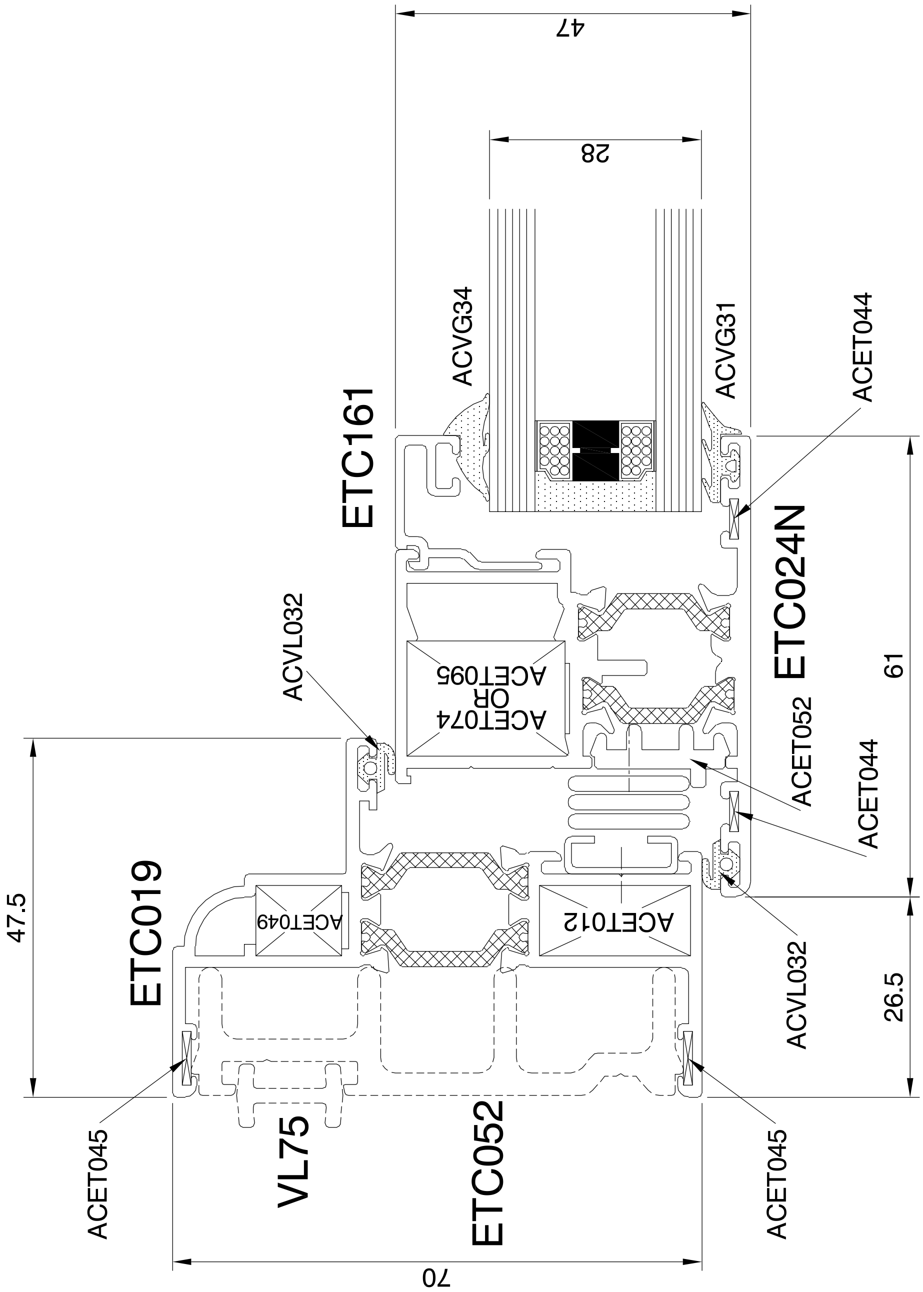
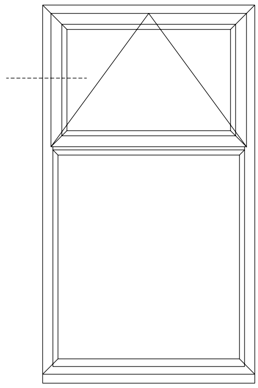


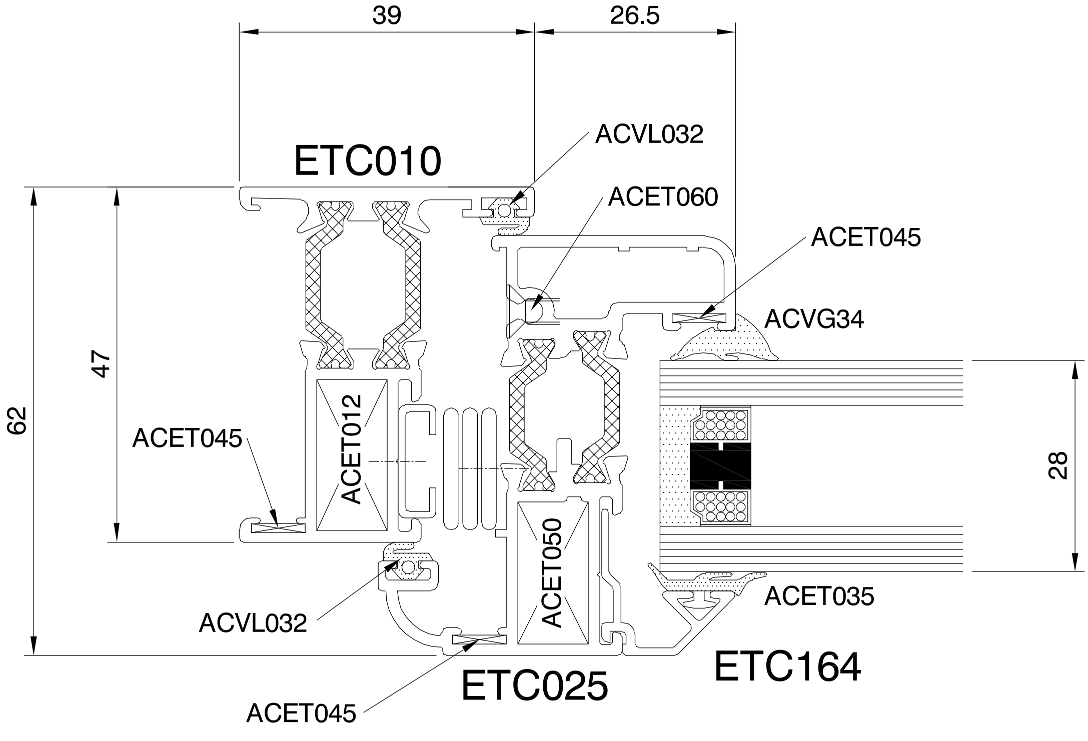


cETC-47-47-02

SECTION

12K

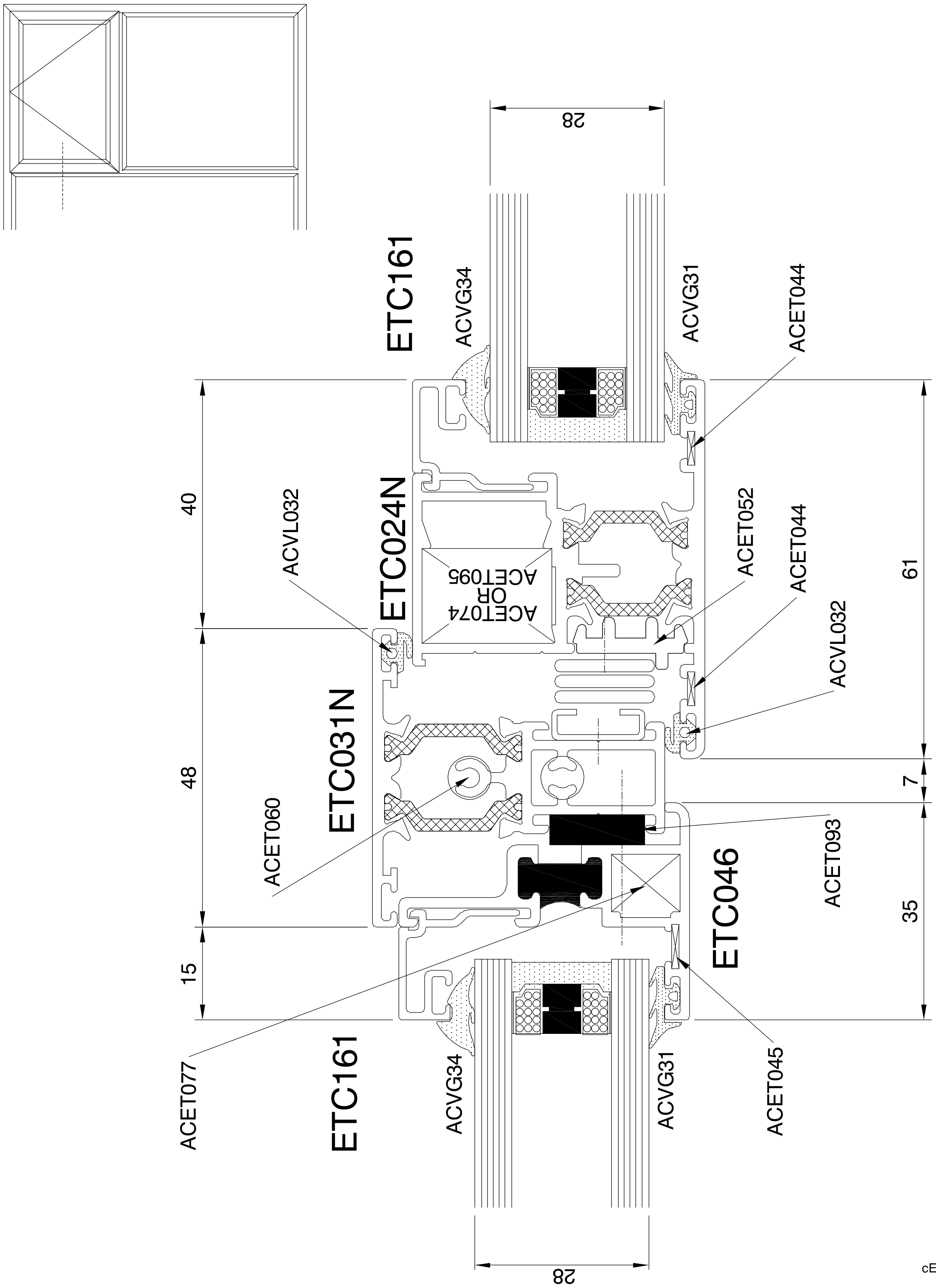




cETC-47-48-01

SECTION

12L



ETC161
ACVG34
ACVG31
ACET044
ETC024N
ACVL032
ACET095
OR
ACET074
ACET052
ACET044
ACVL032
ETC031N
ACET060
ACET093
ETC046
ACET077
ETC161
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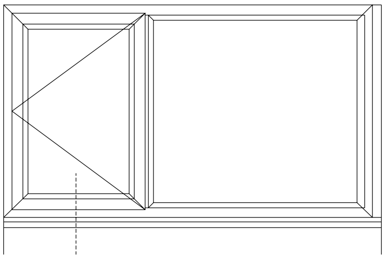
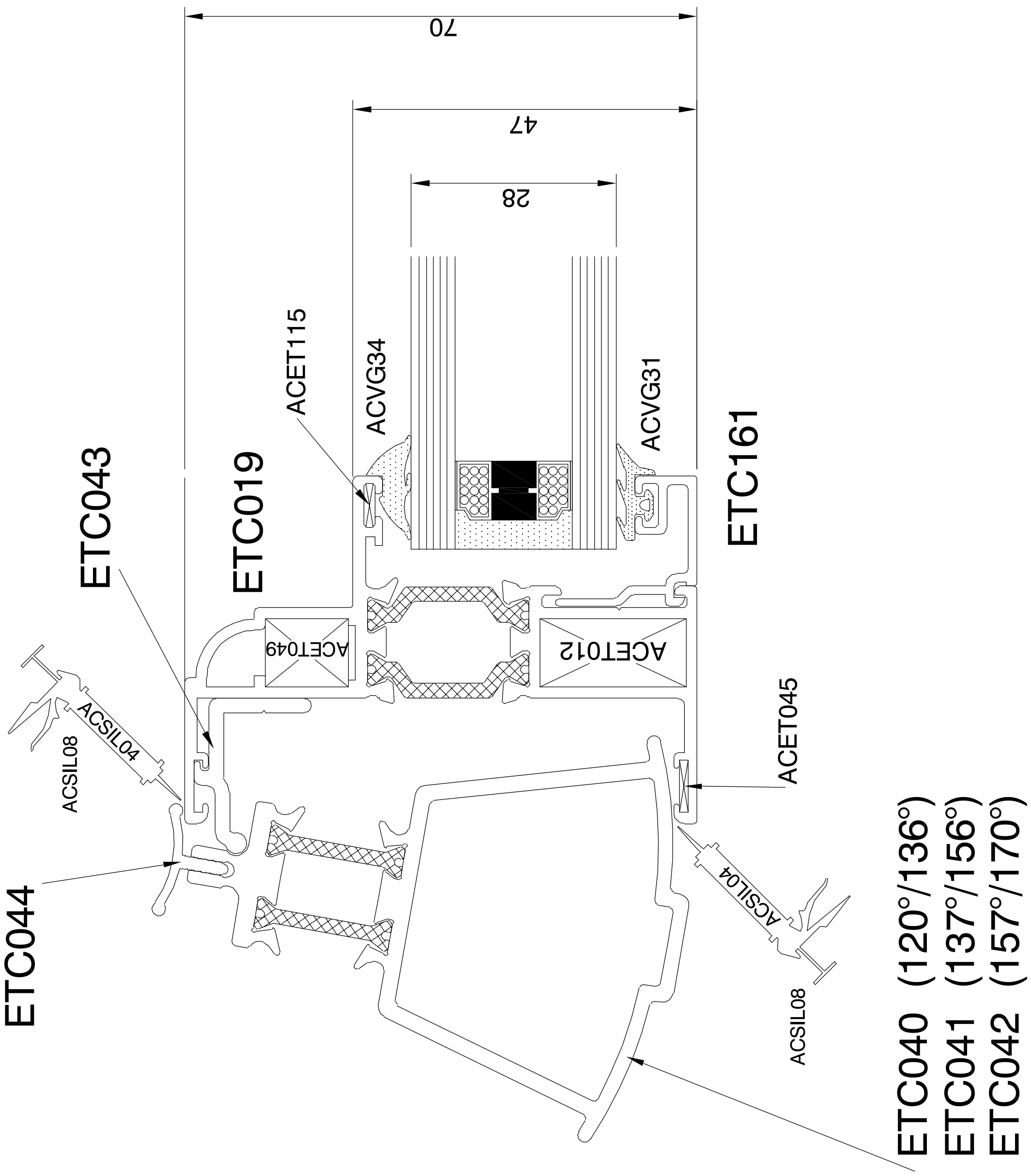
61
7
35
28
cETC-47-49-02

SECTION

12M

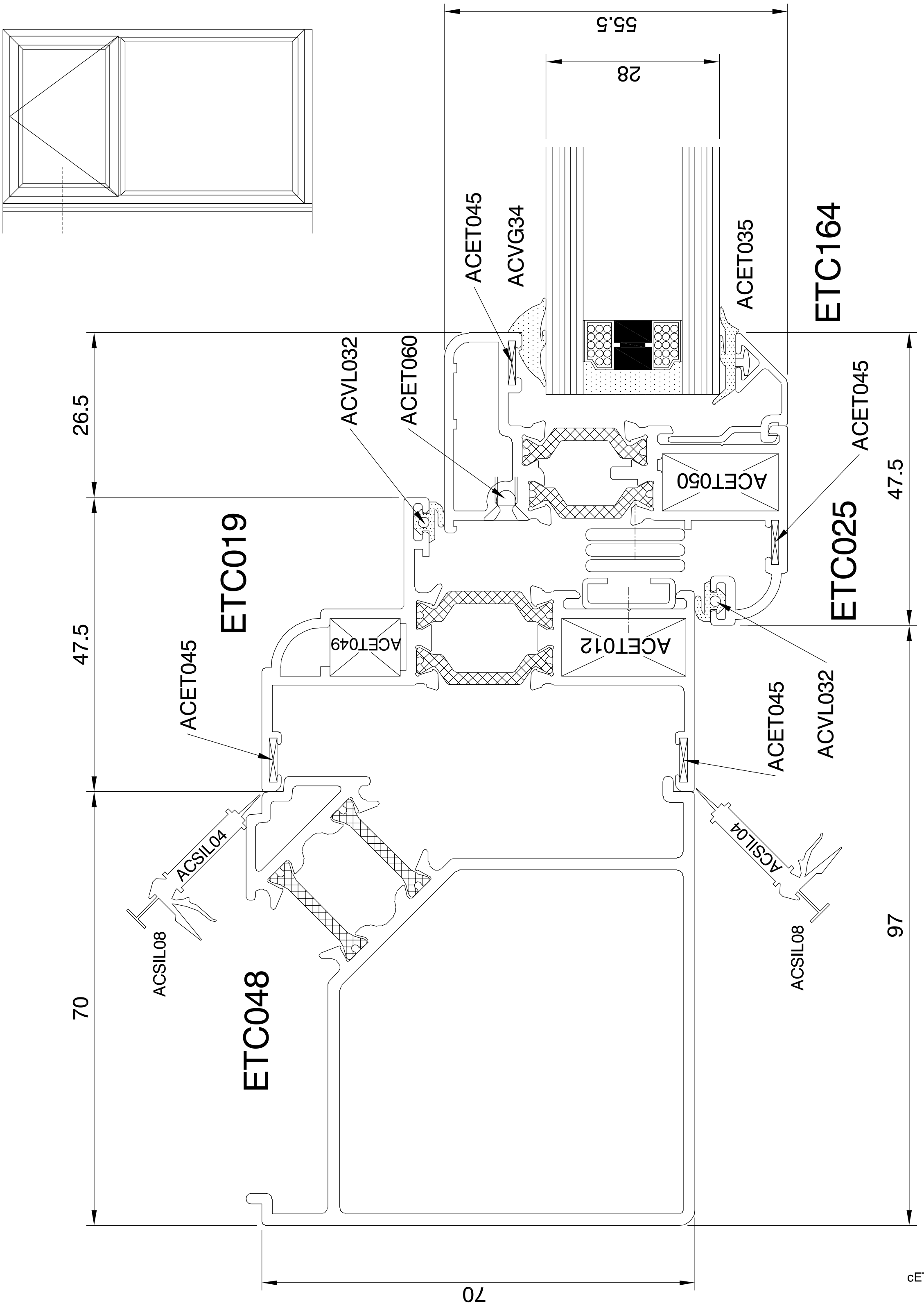




cETC-47-50-01

SECTION

12N

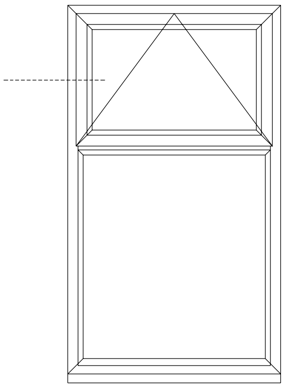


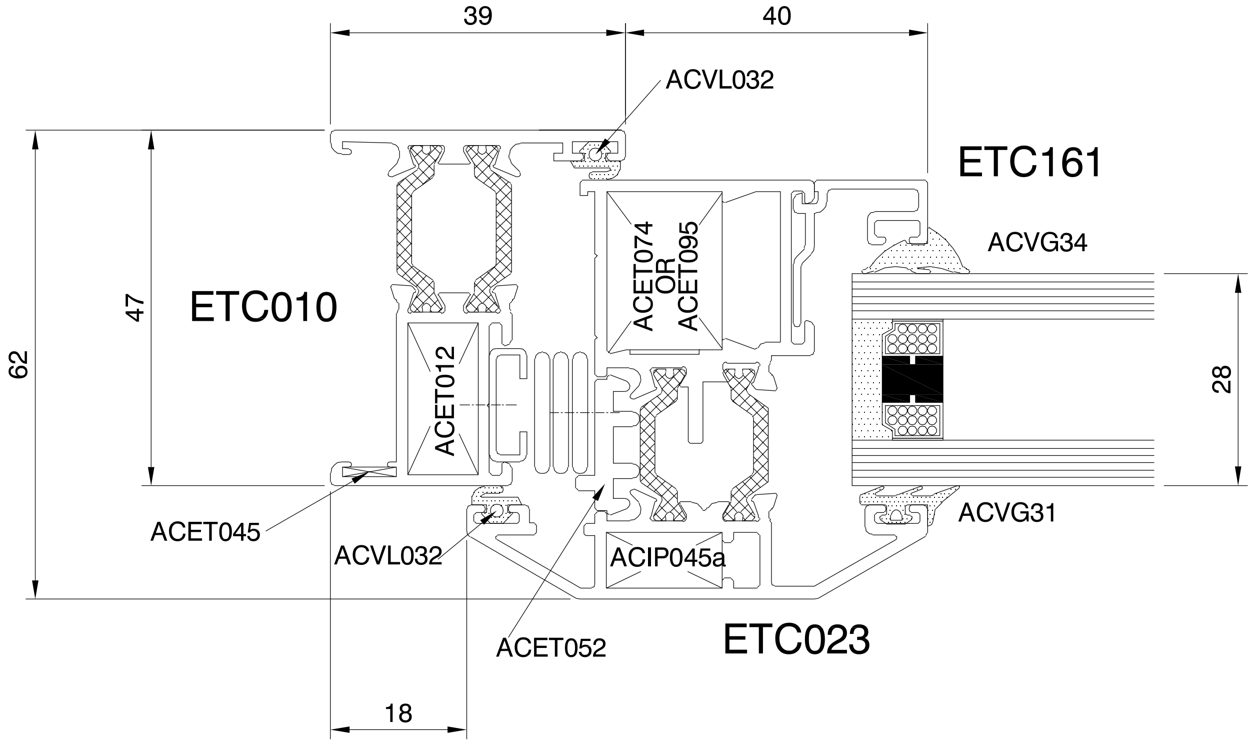
cETC-47-51-00

ALITHERM - 47

SECTION

12O

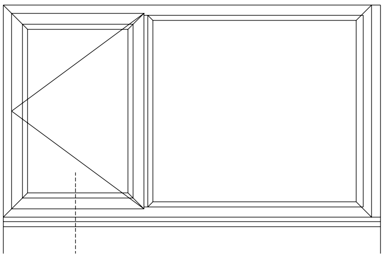


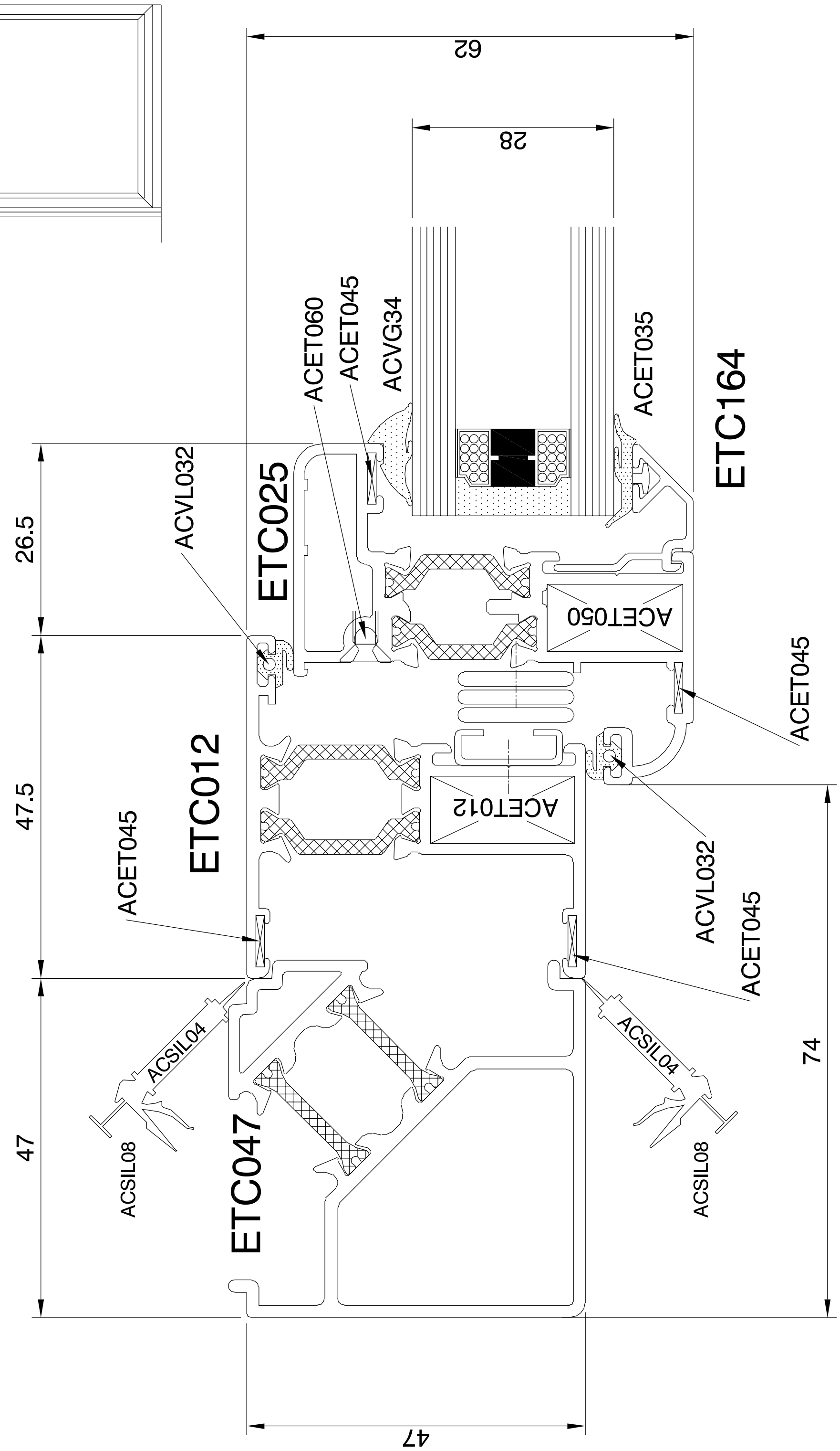


cETC-47-52-02

SECTION

12P

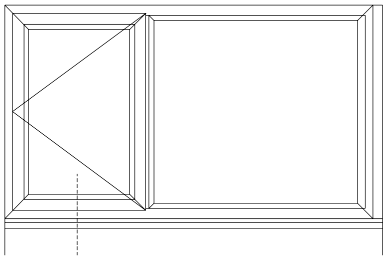


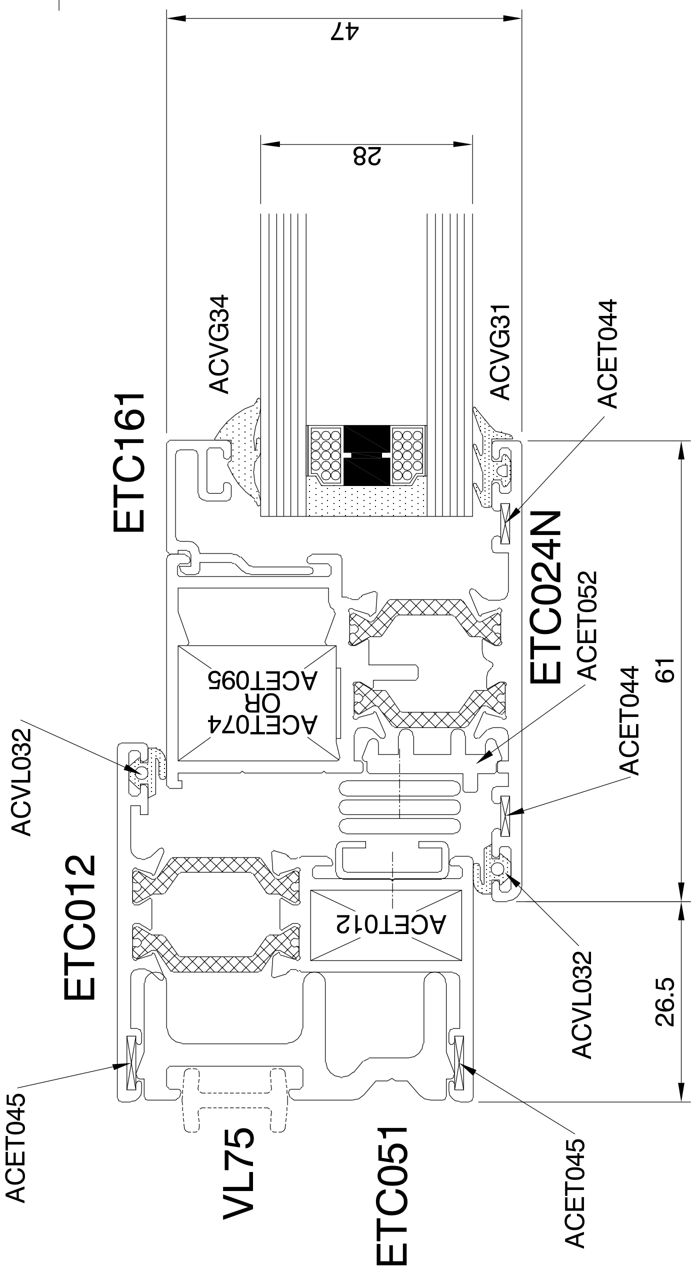


cETC-47-53-00

SECTION

12Q

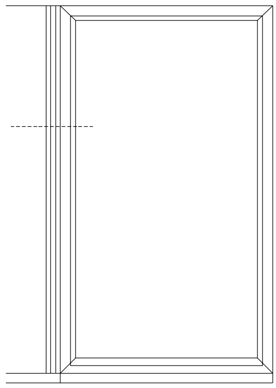


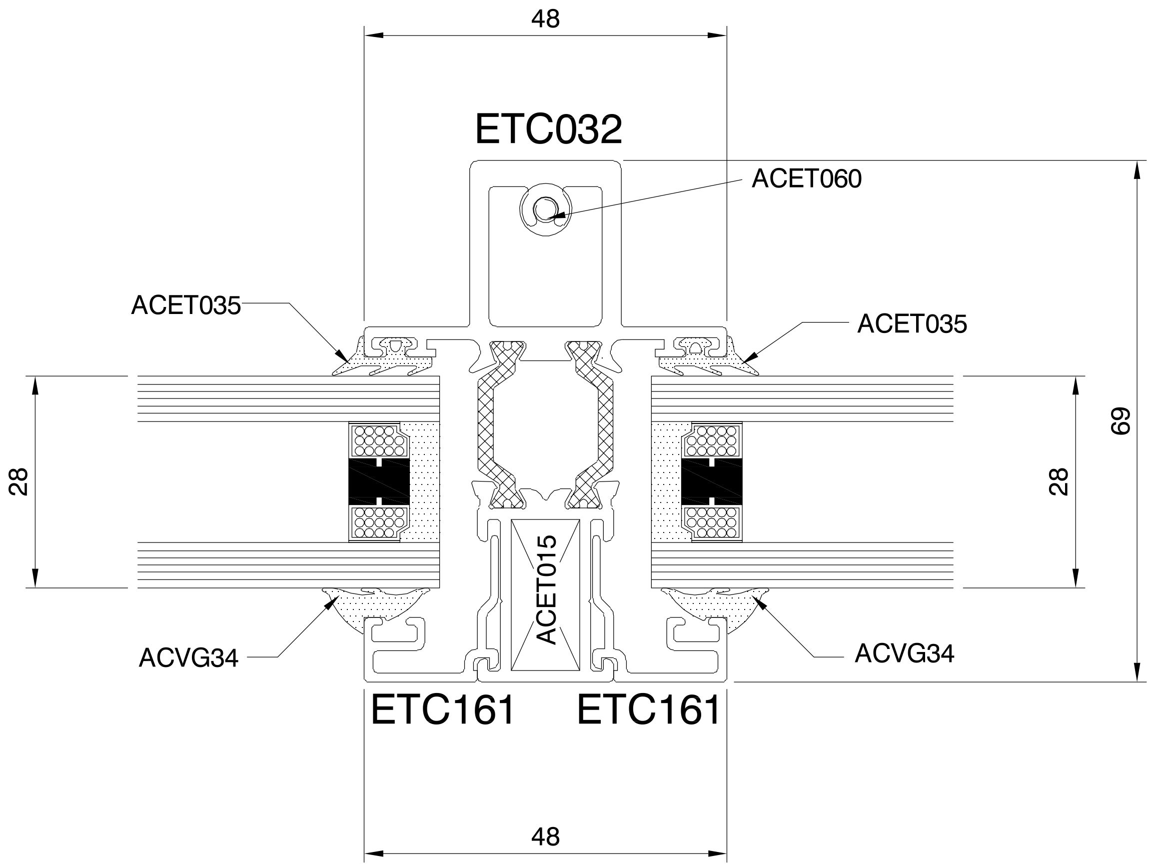


cETC-47-54-02

SECTION

12R

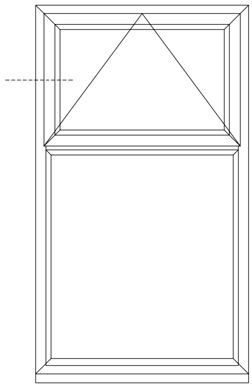


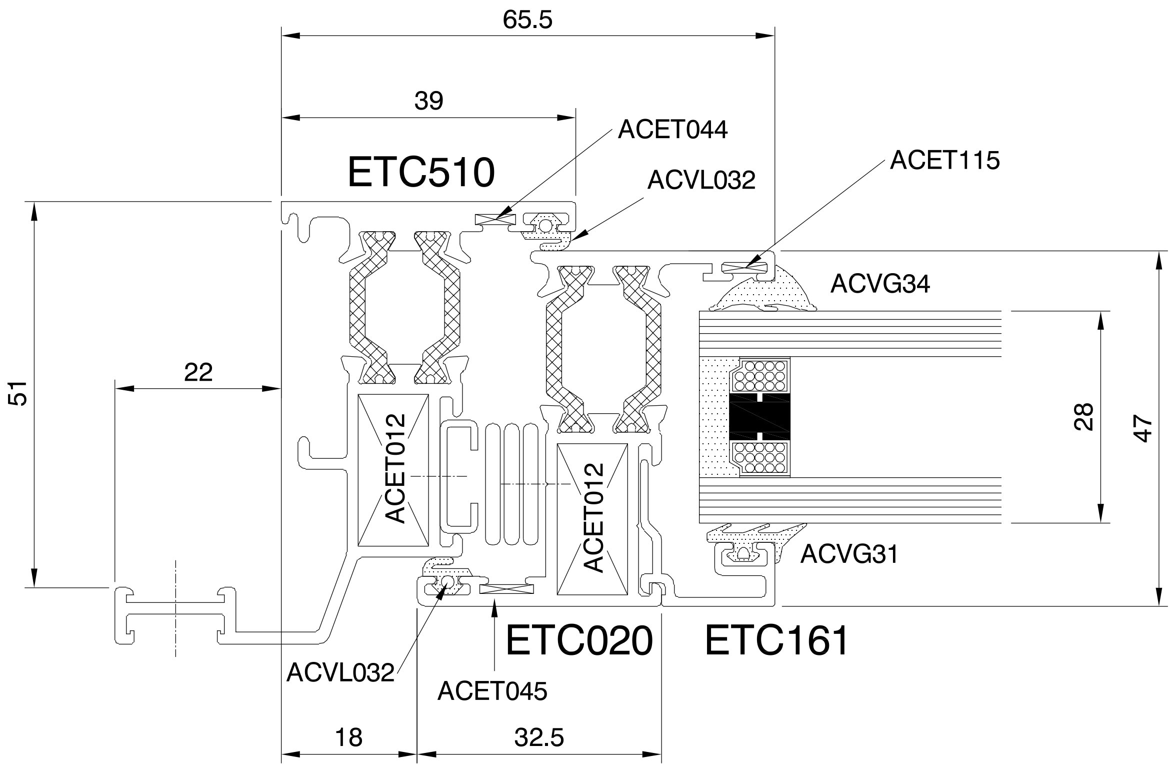


cETC-47-38-00

SECTION

12S

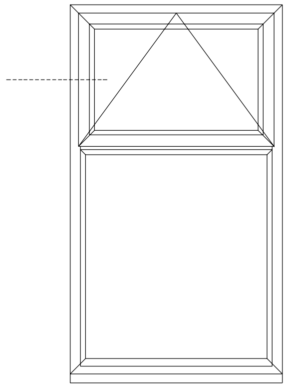


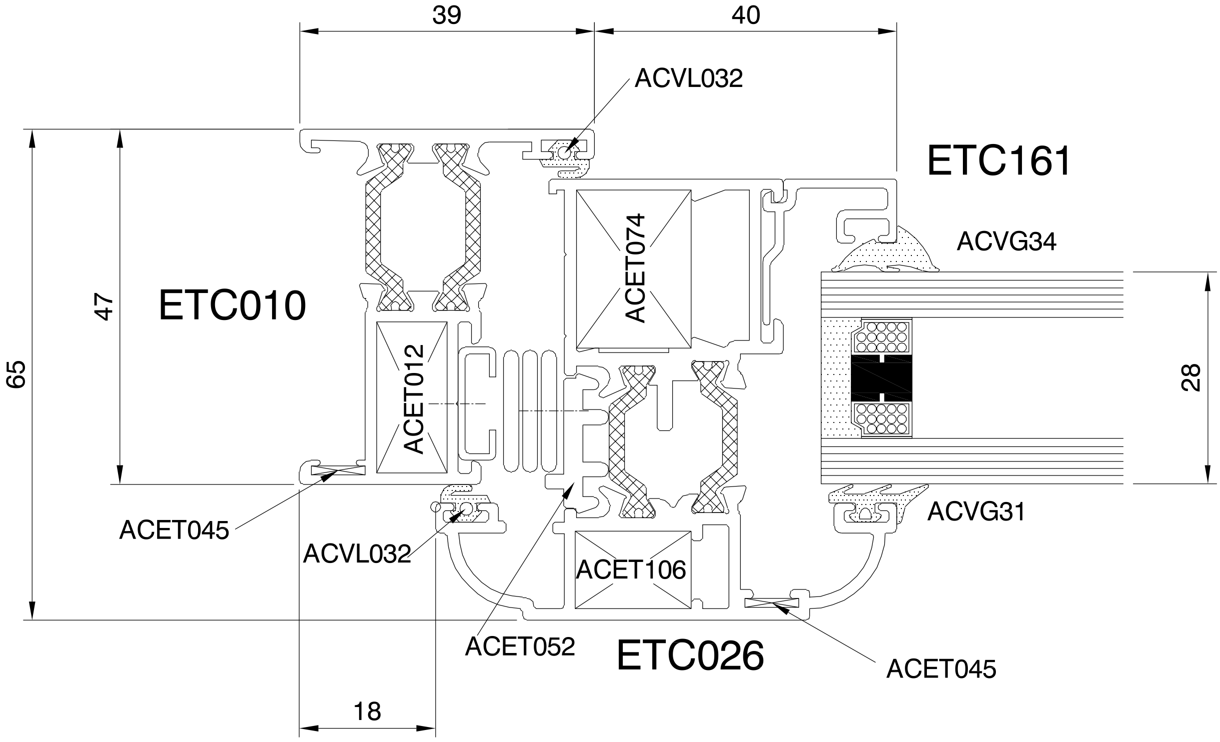


cETC-47-57-00

SECTION

12T



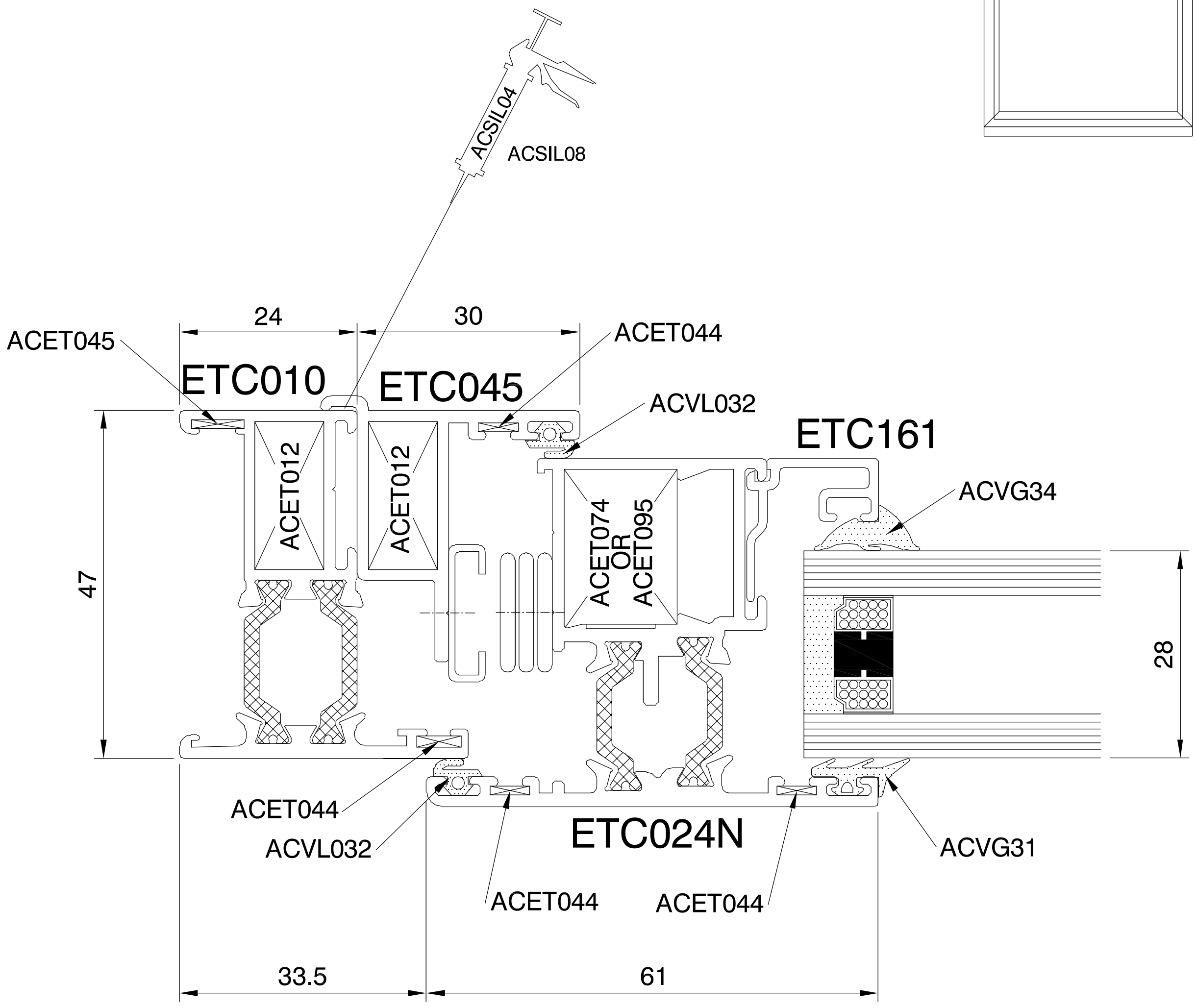


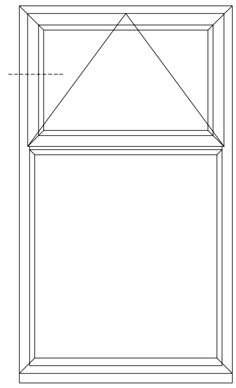
cETC-47-63-00

ALITHERM - 47

SECTION

12U

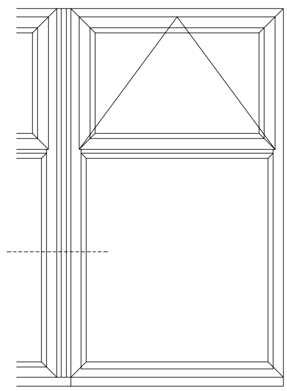


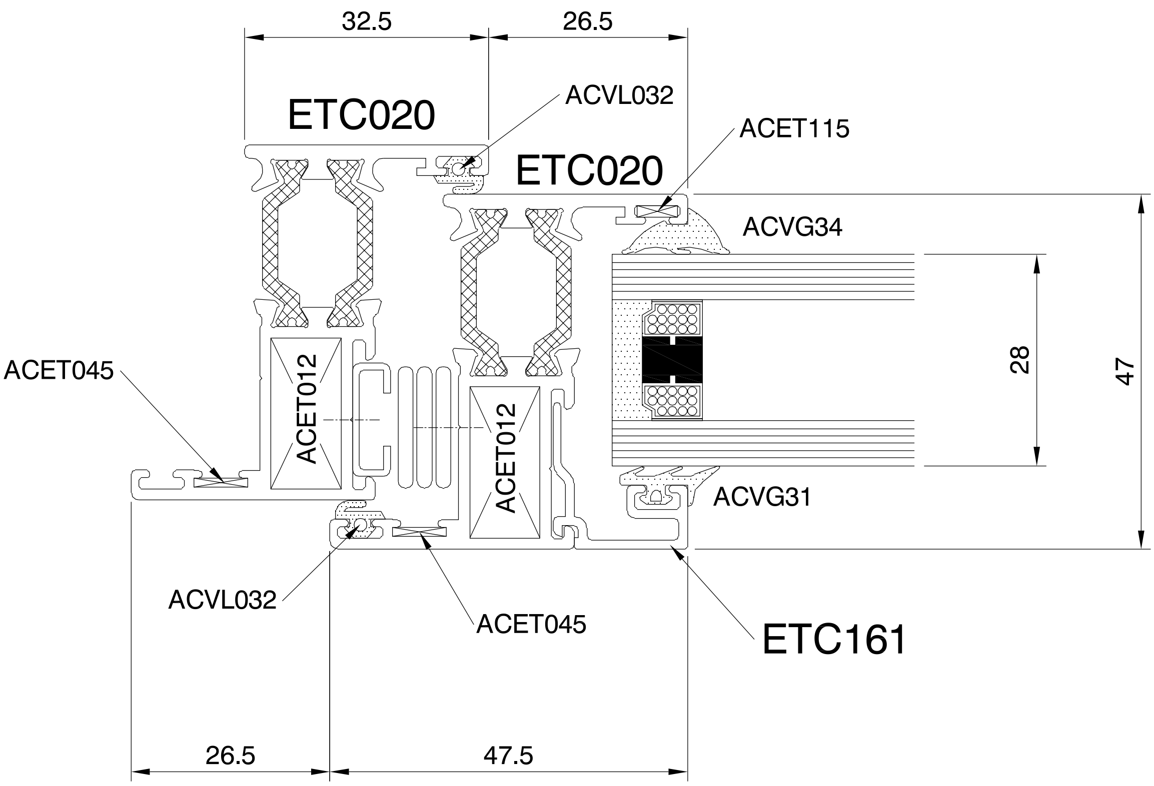


cETC-47-67-01

SECTION

12V

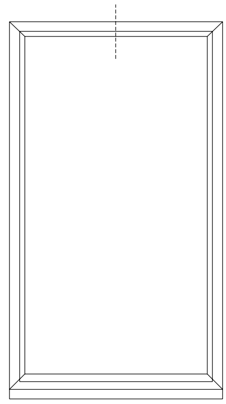


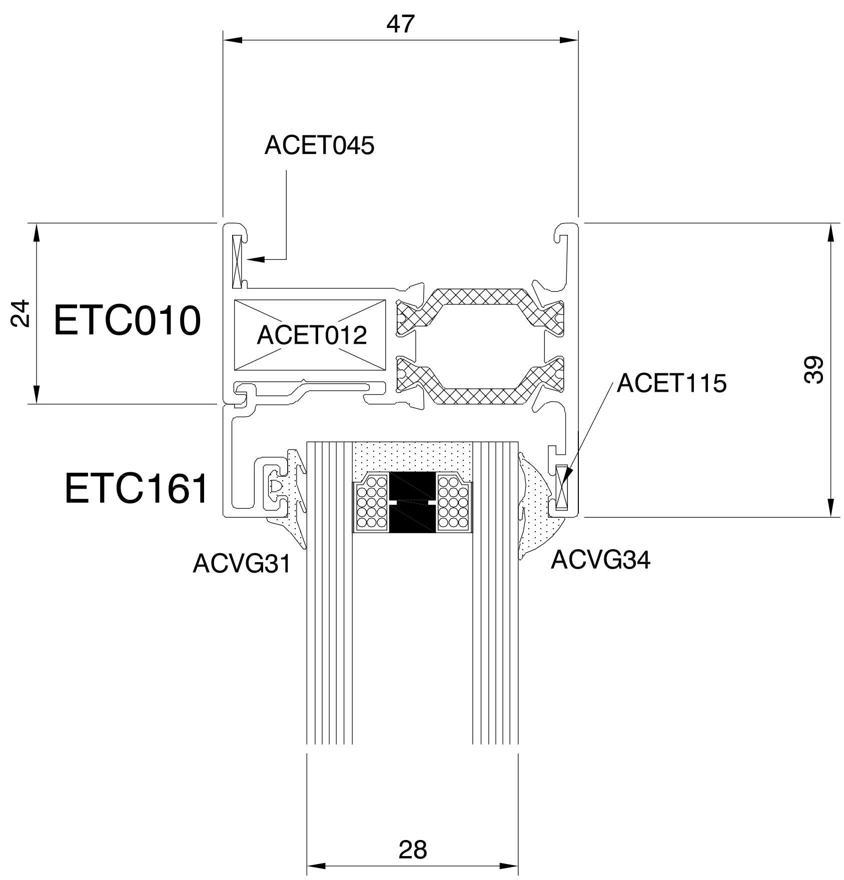


cETC-47-71-00

SECTION

13A

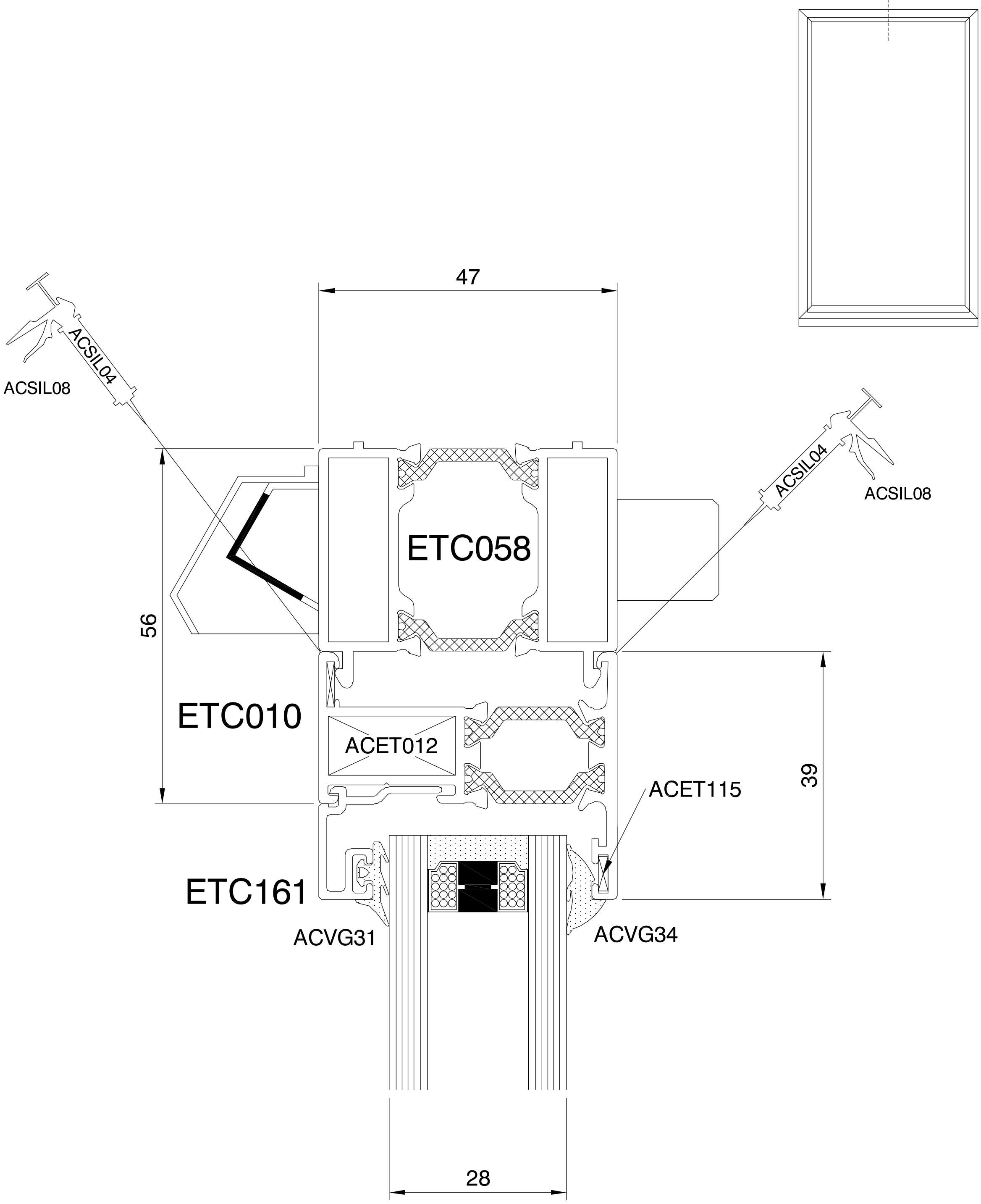




cETC-47-17-01

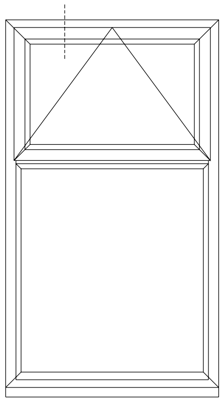
SECTION

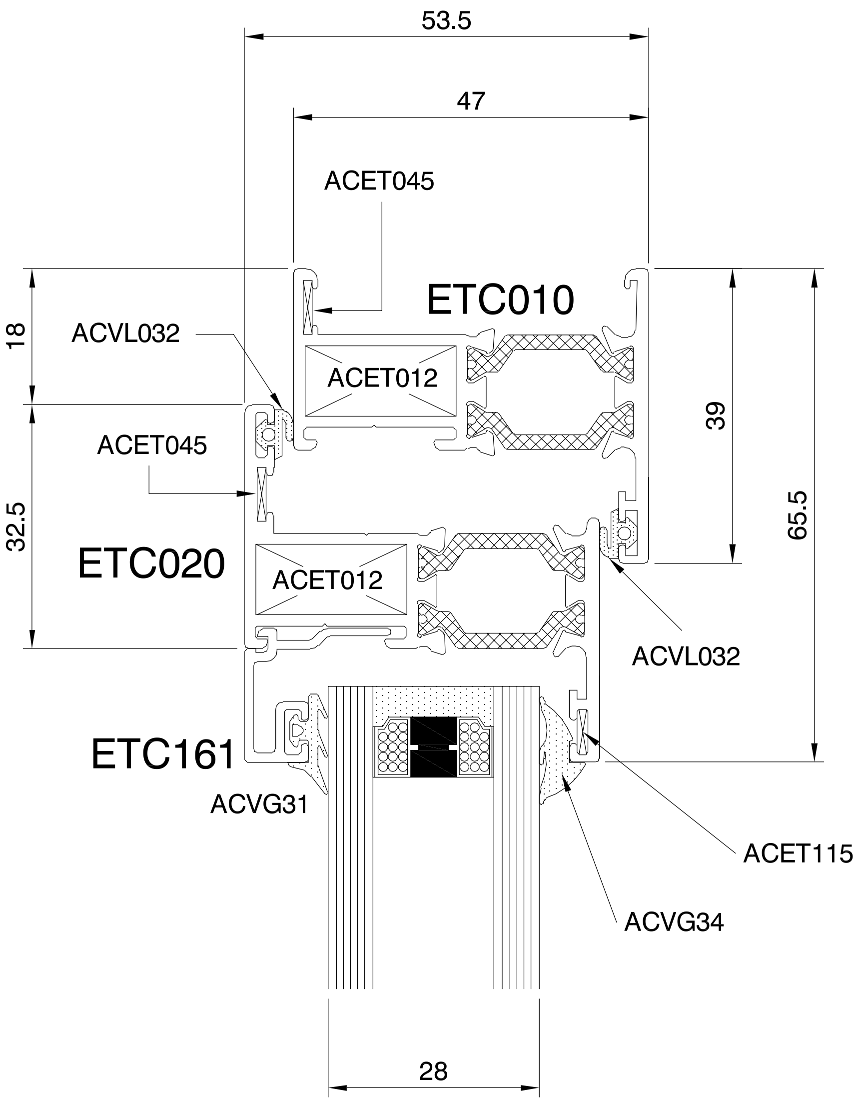
13B



cETC-47-18-01

14A





cETC-47-19-01

SECTION

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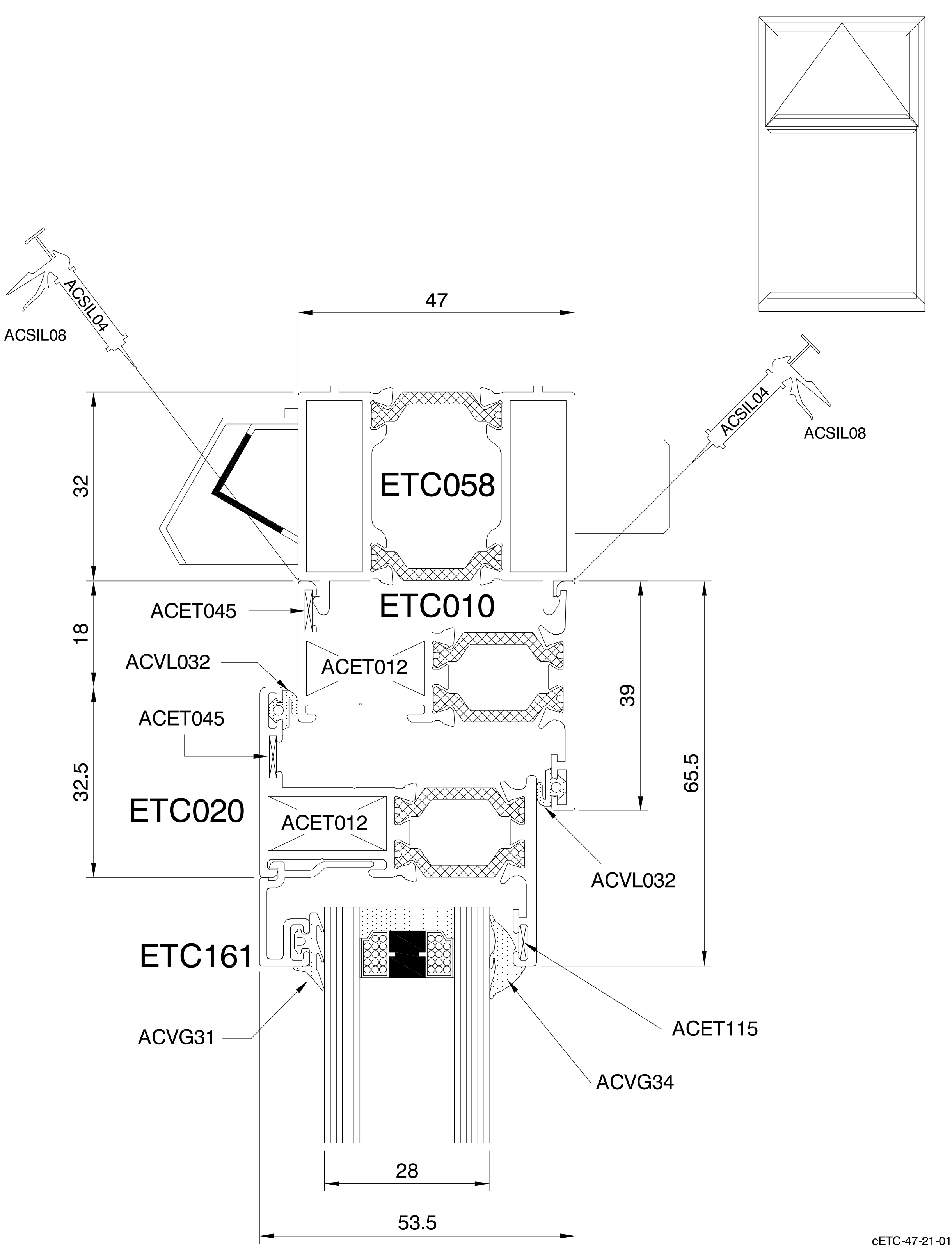
47
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ACSIL08
ACSIL04
ACSIL08
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ACET045
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ACVL032
ACET012
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ACET045
32.5
65.5
ETC020
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ACVG31
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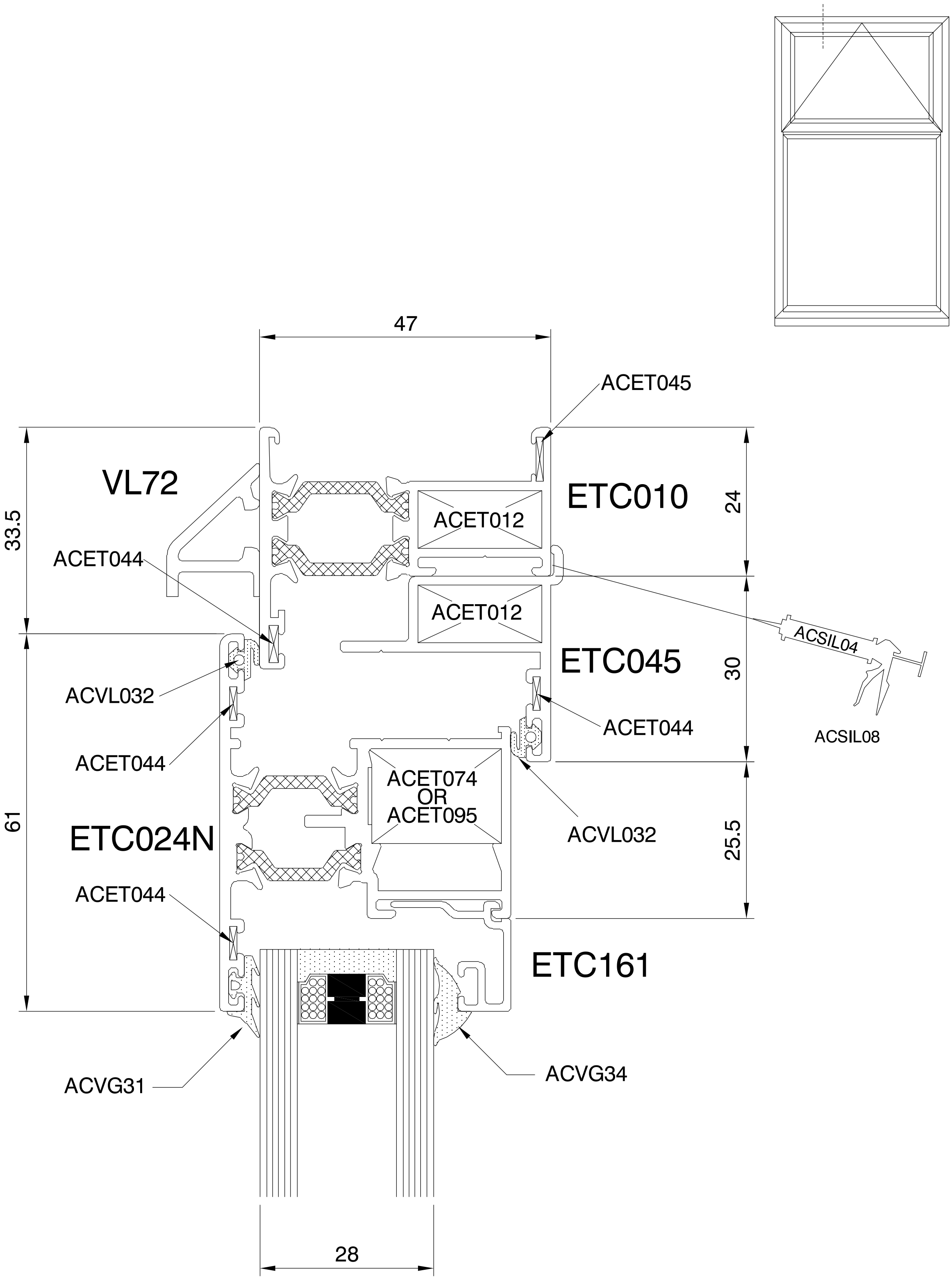
ACVG34
28
53.5
cETC-47-21-01

SECTION

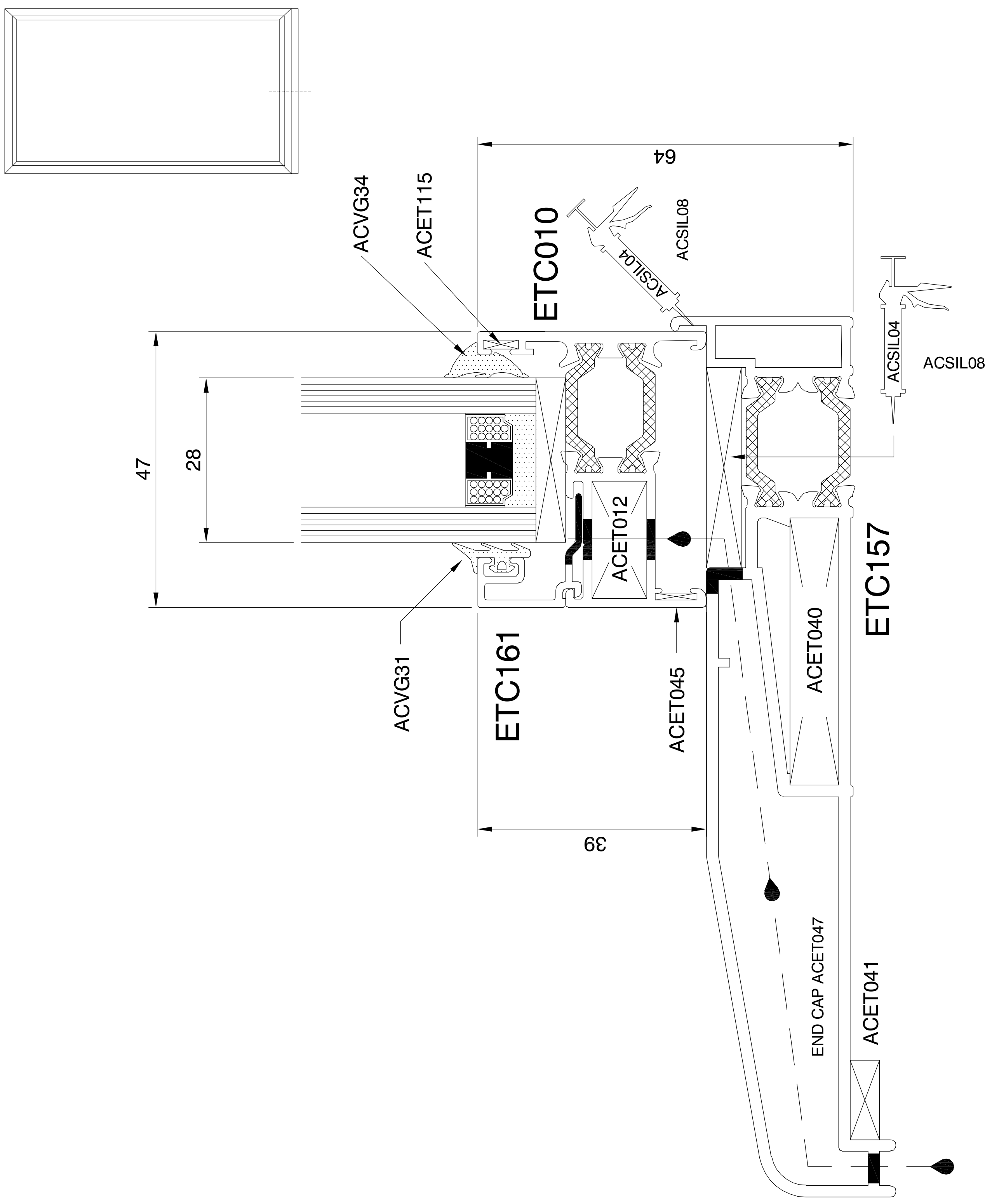
14C



cETC-47-46-02

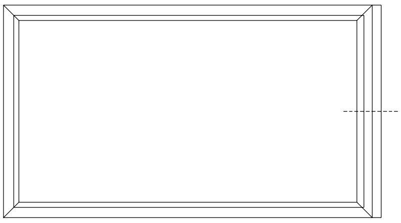
SECTION

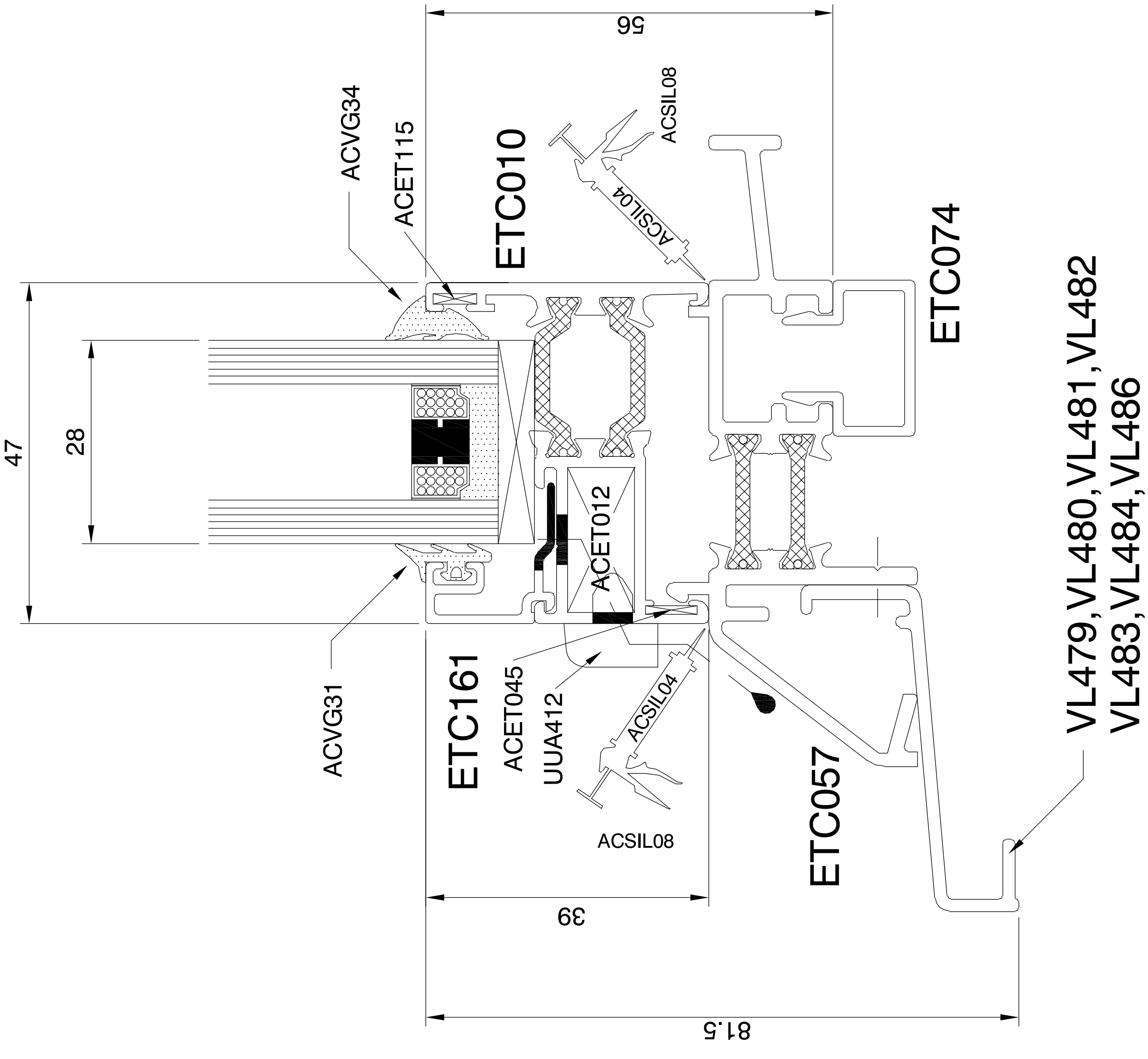
15A



cETC-47-23-01

15B

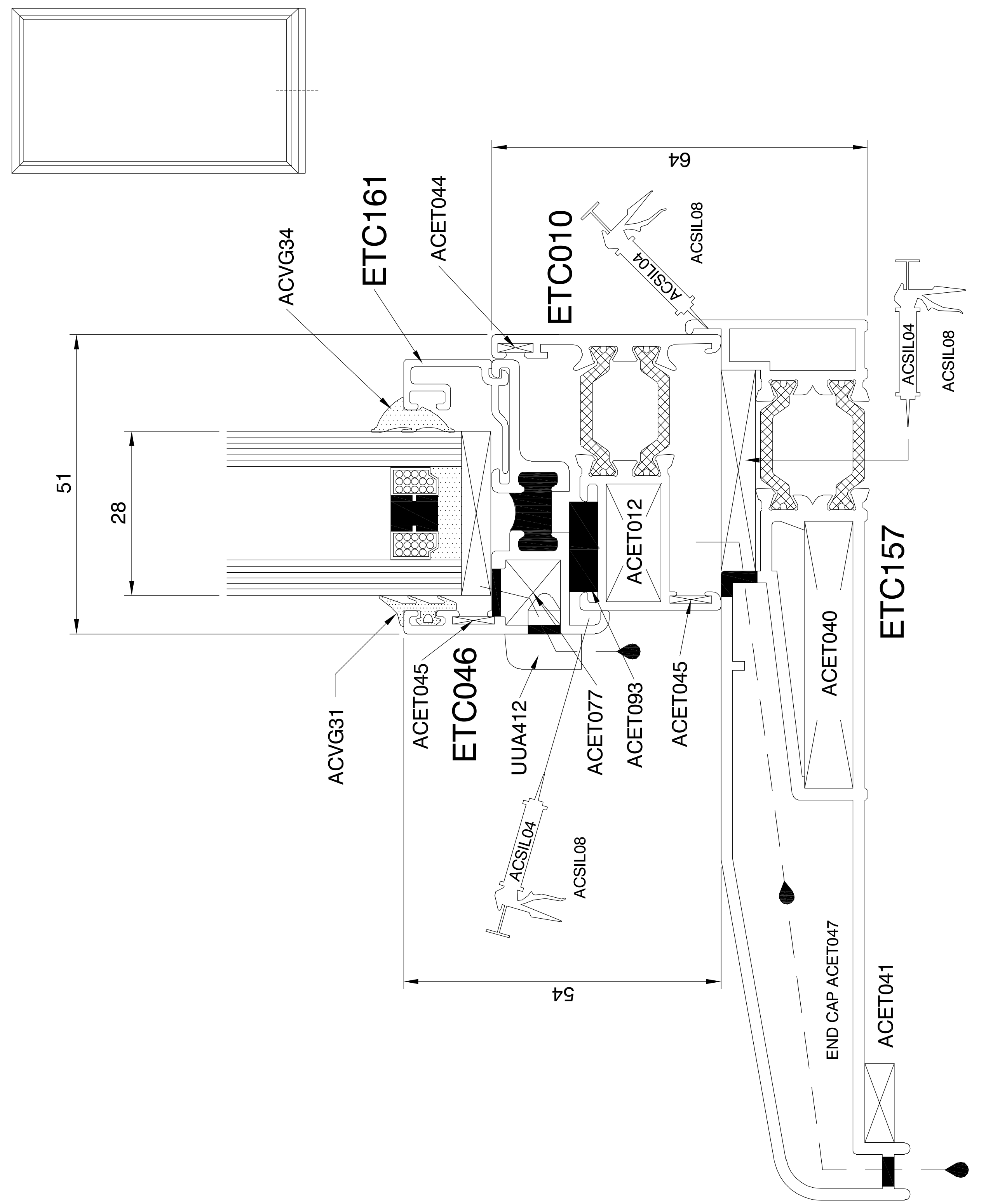




cETC-47-40-01

SECTION

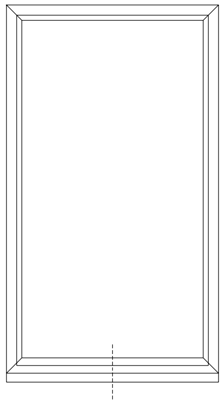
15C

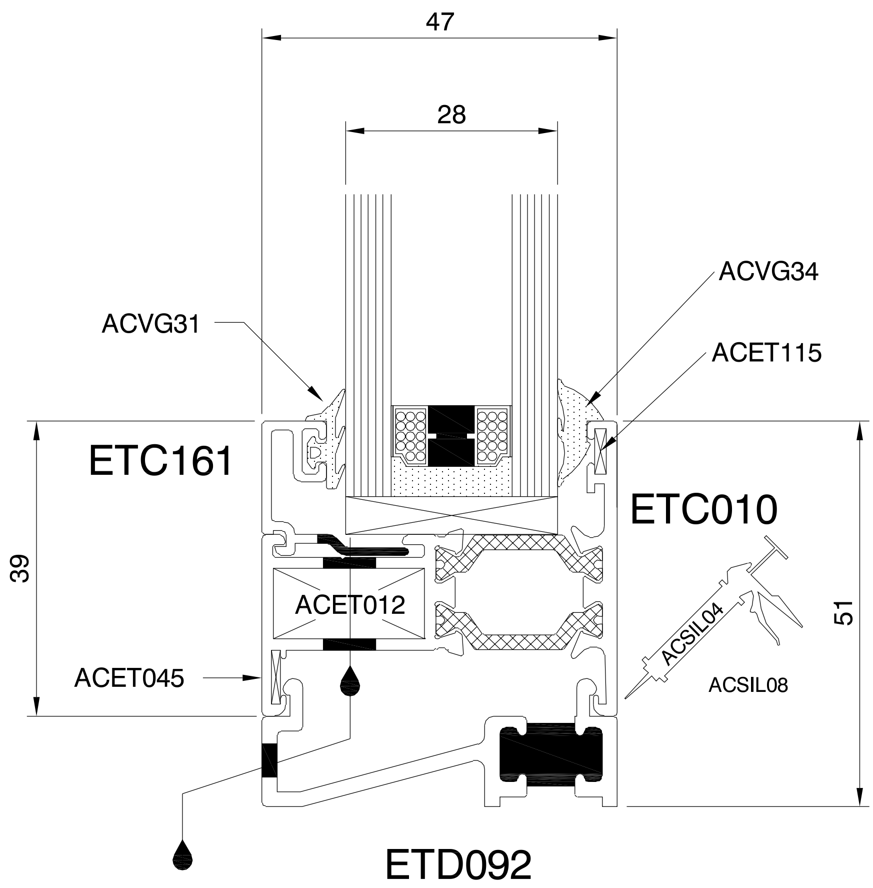


cETC-47-66-00

SECTION

15D

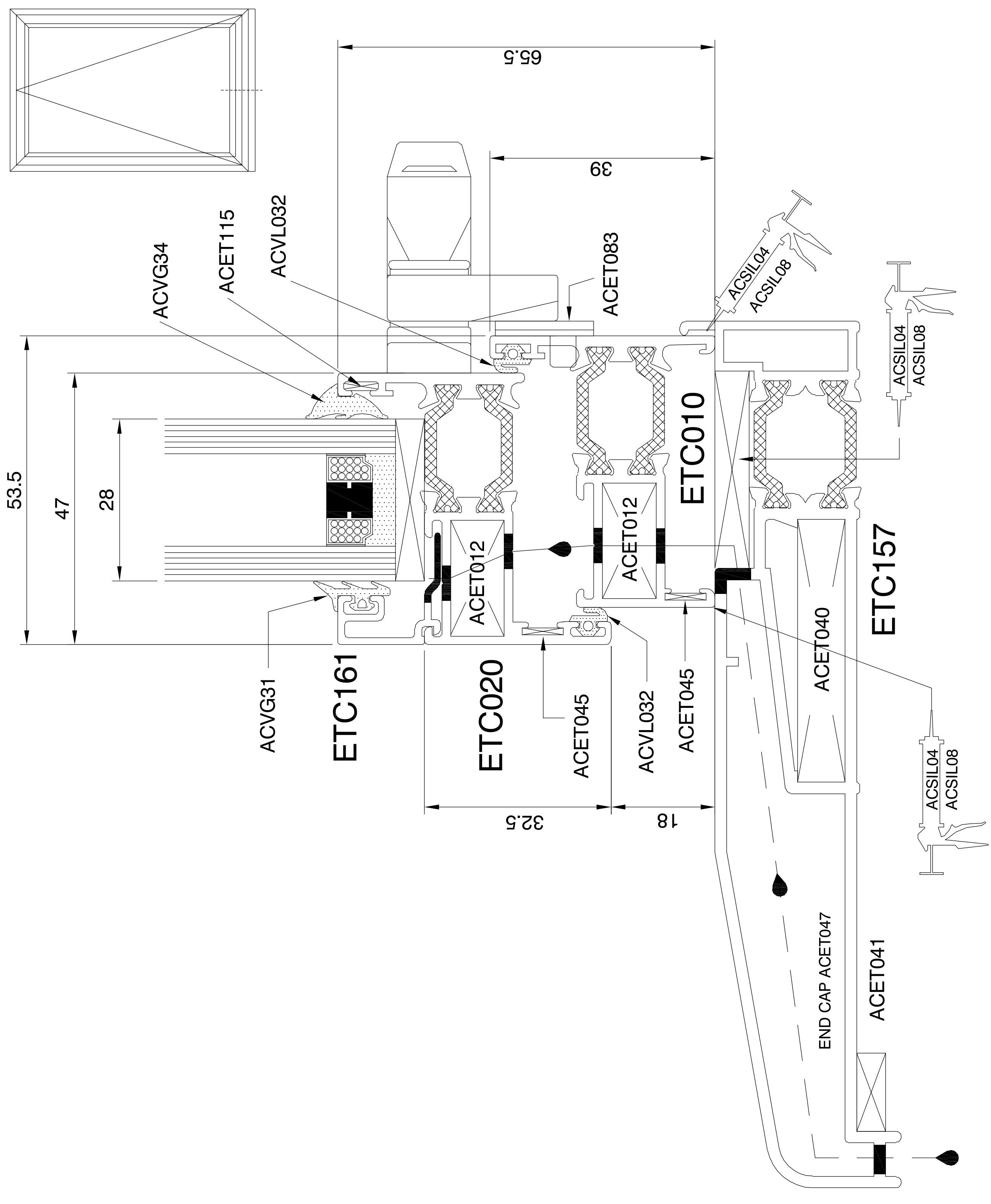




cETC-47-70-00

SECTION

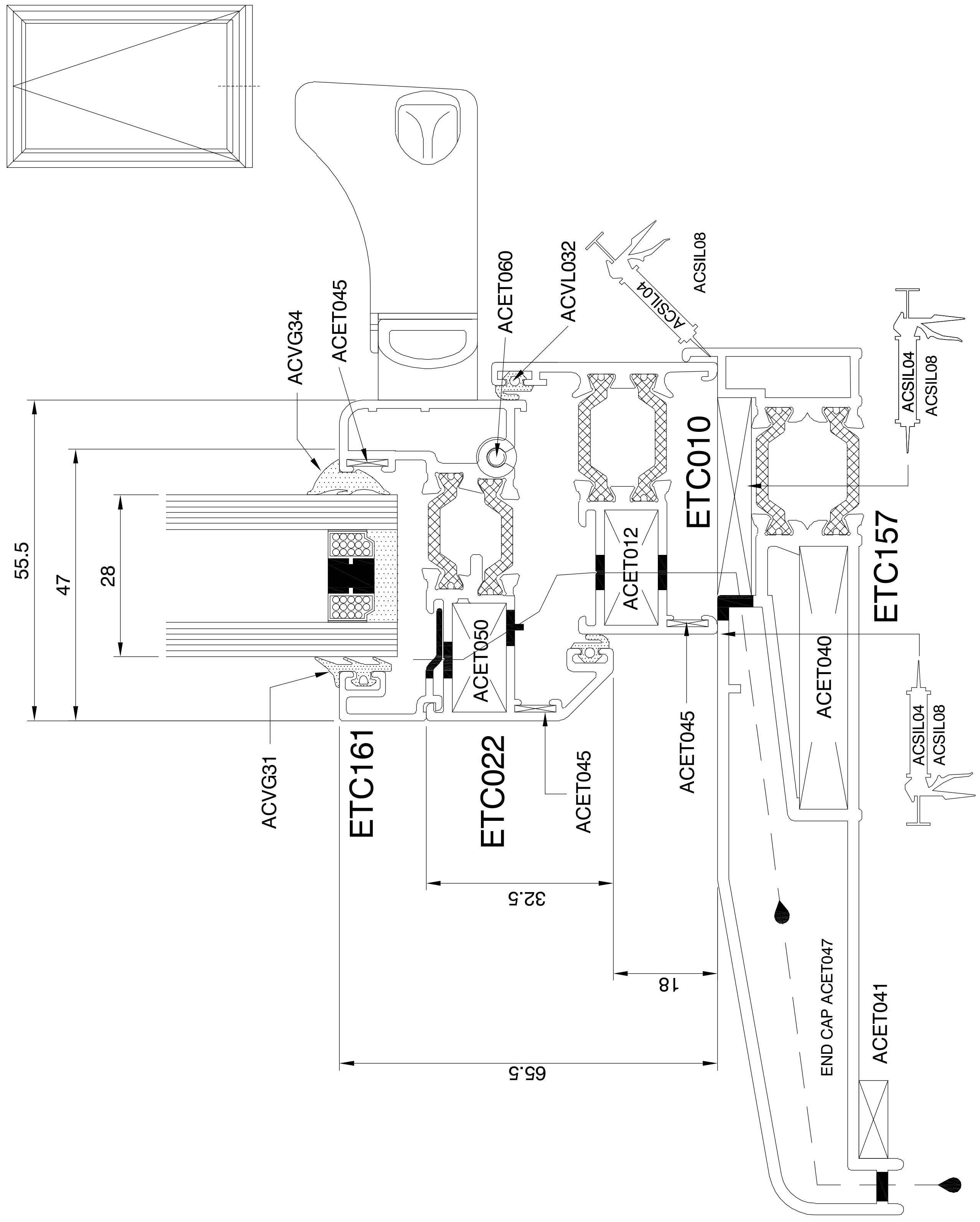
16A



cETC-47-24-02

SECTION

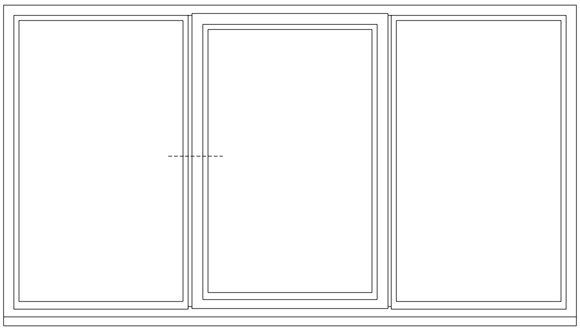
16B

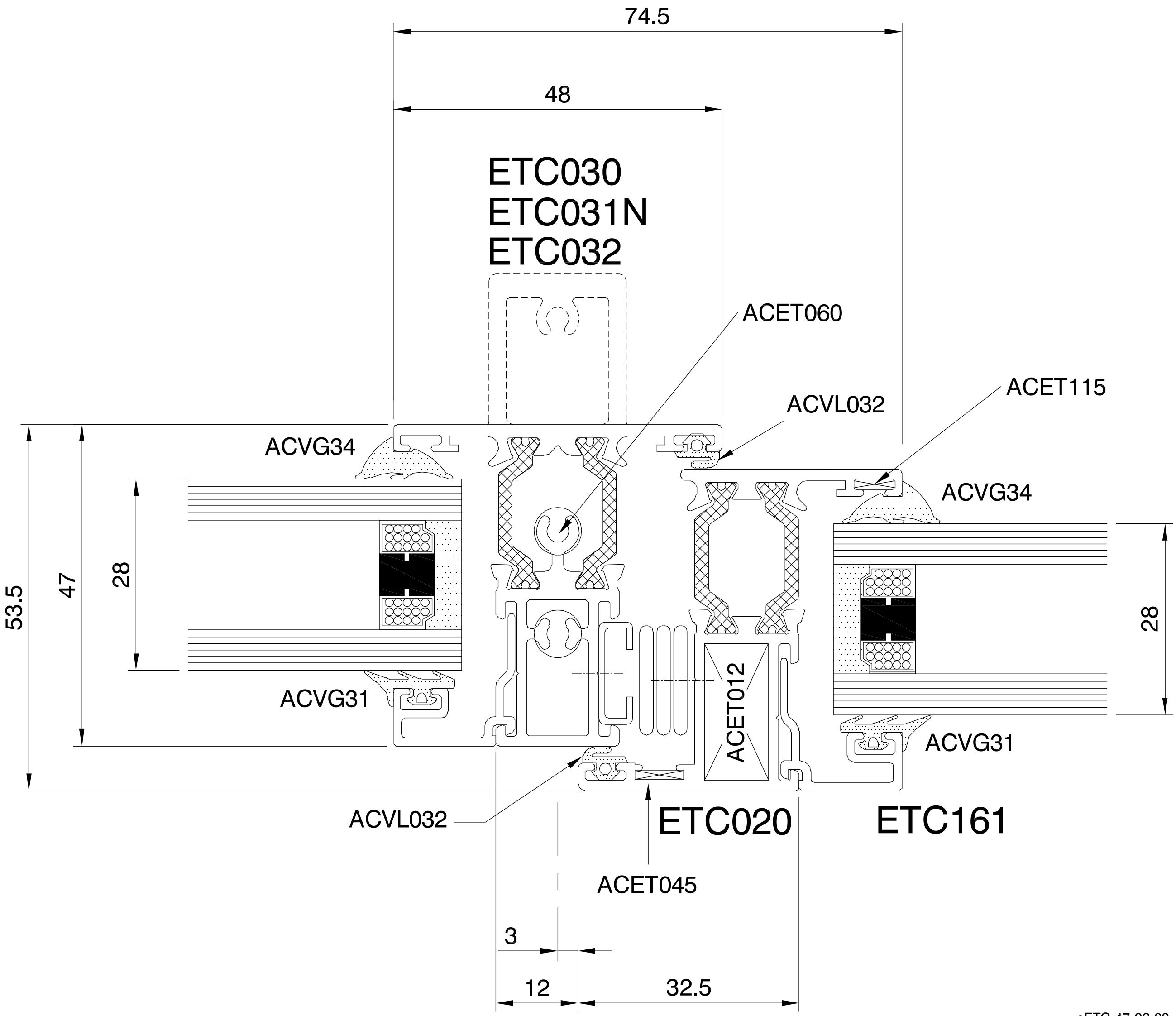


cETC-47-41-01

SECTION

17A



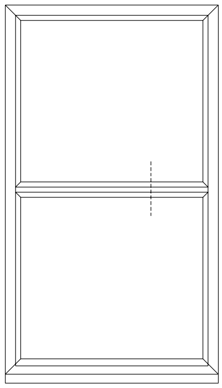


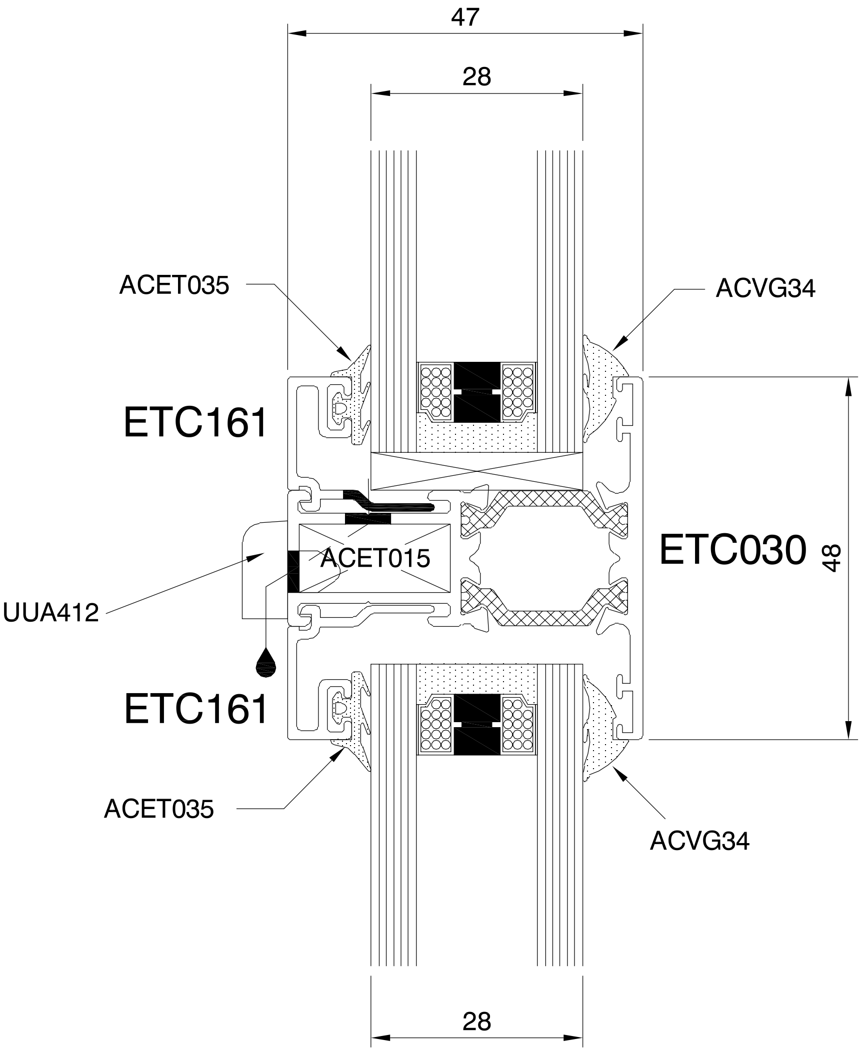
cETC-47-26-03

ALITHERM - 47

SECTION

18A

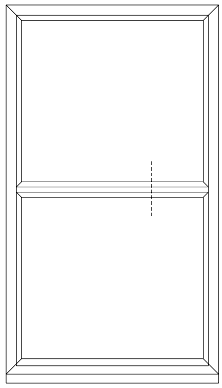


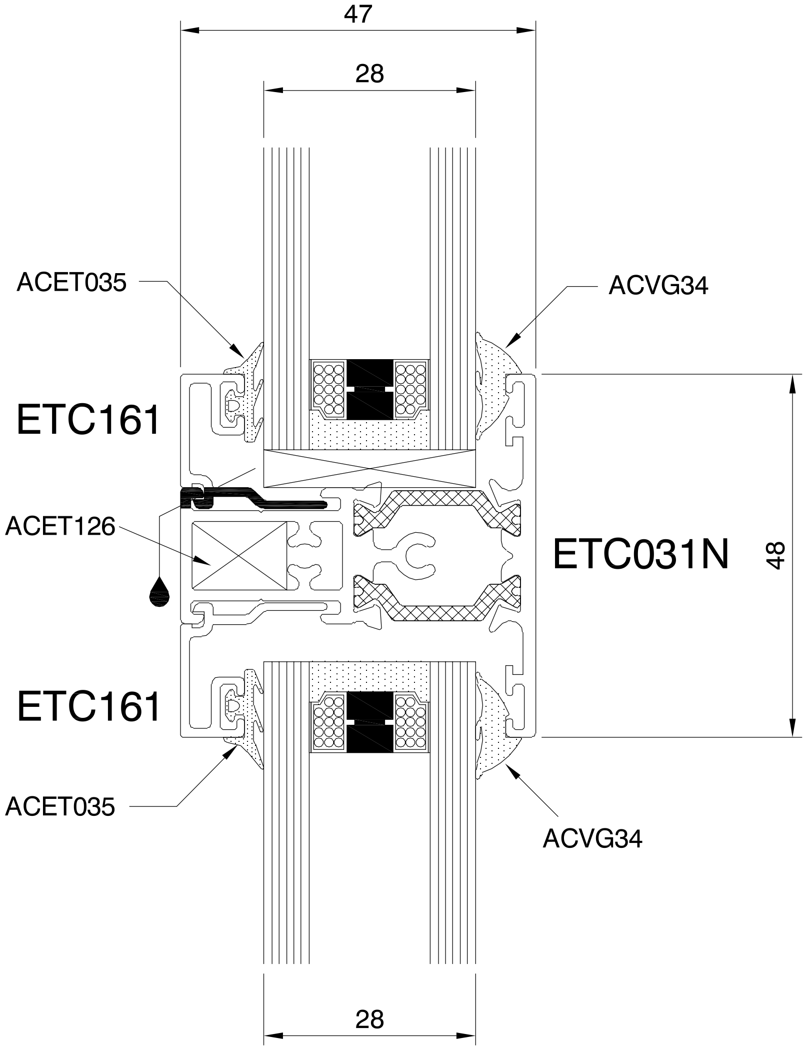


cETC-47-28-01

SECTION

18B



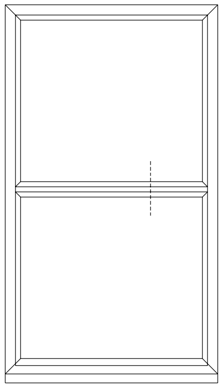


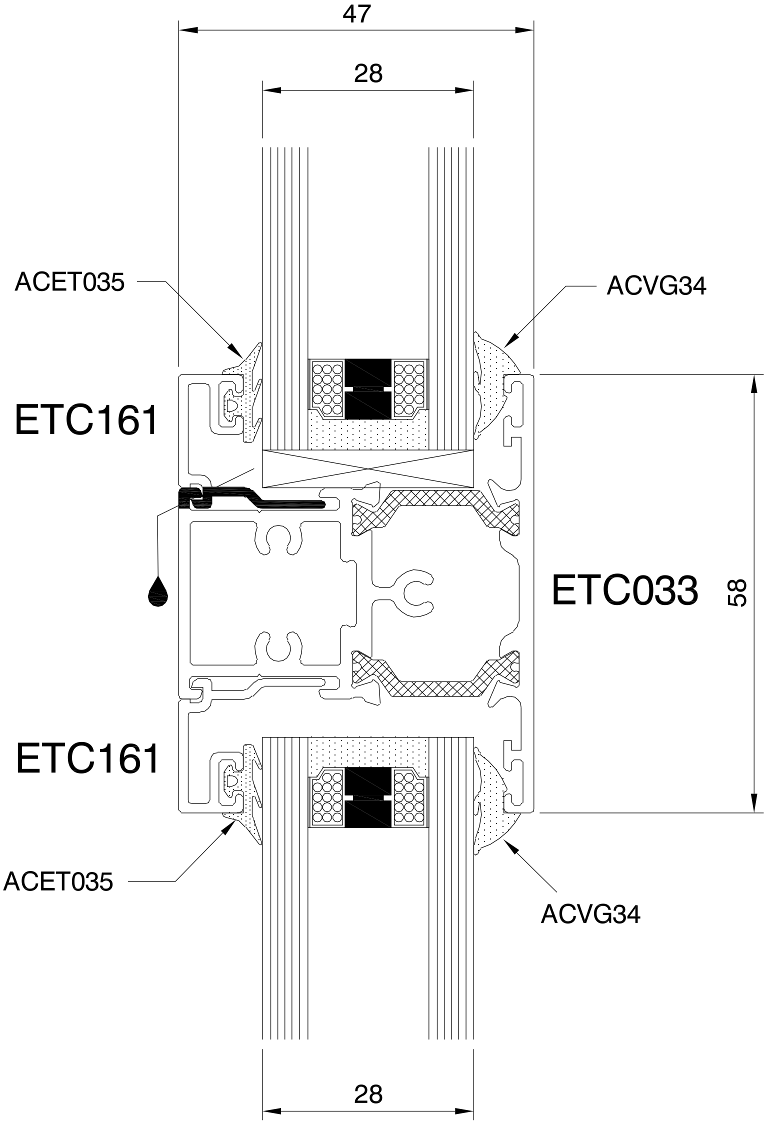
cETC-47-29-01

ALITHERM - 47

SECTION

18C

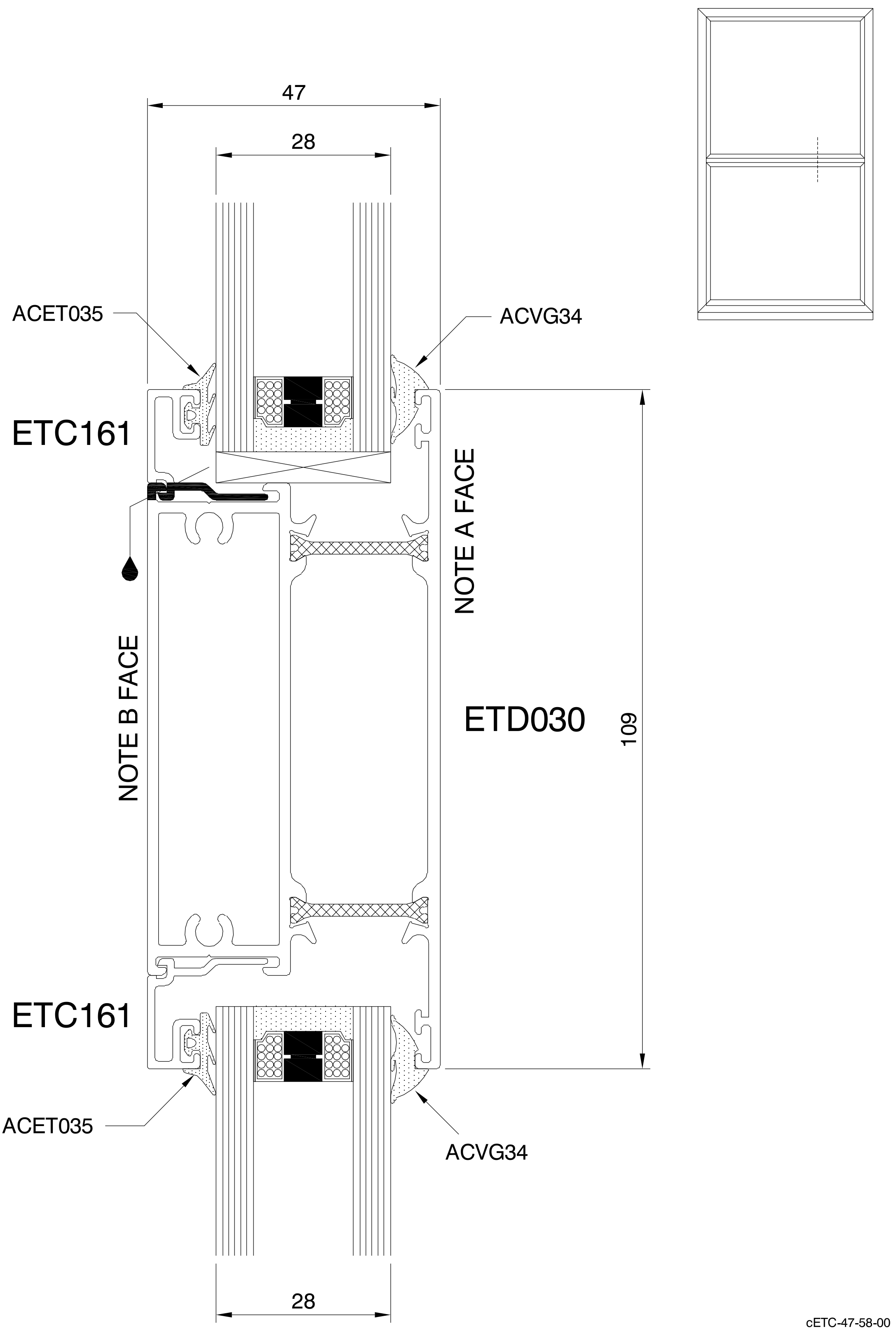




cETC-47-68-00

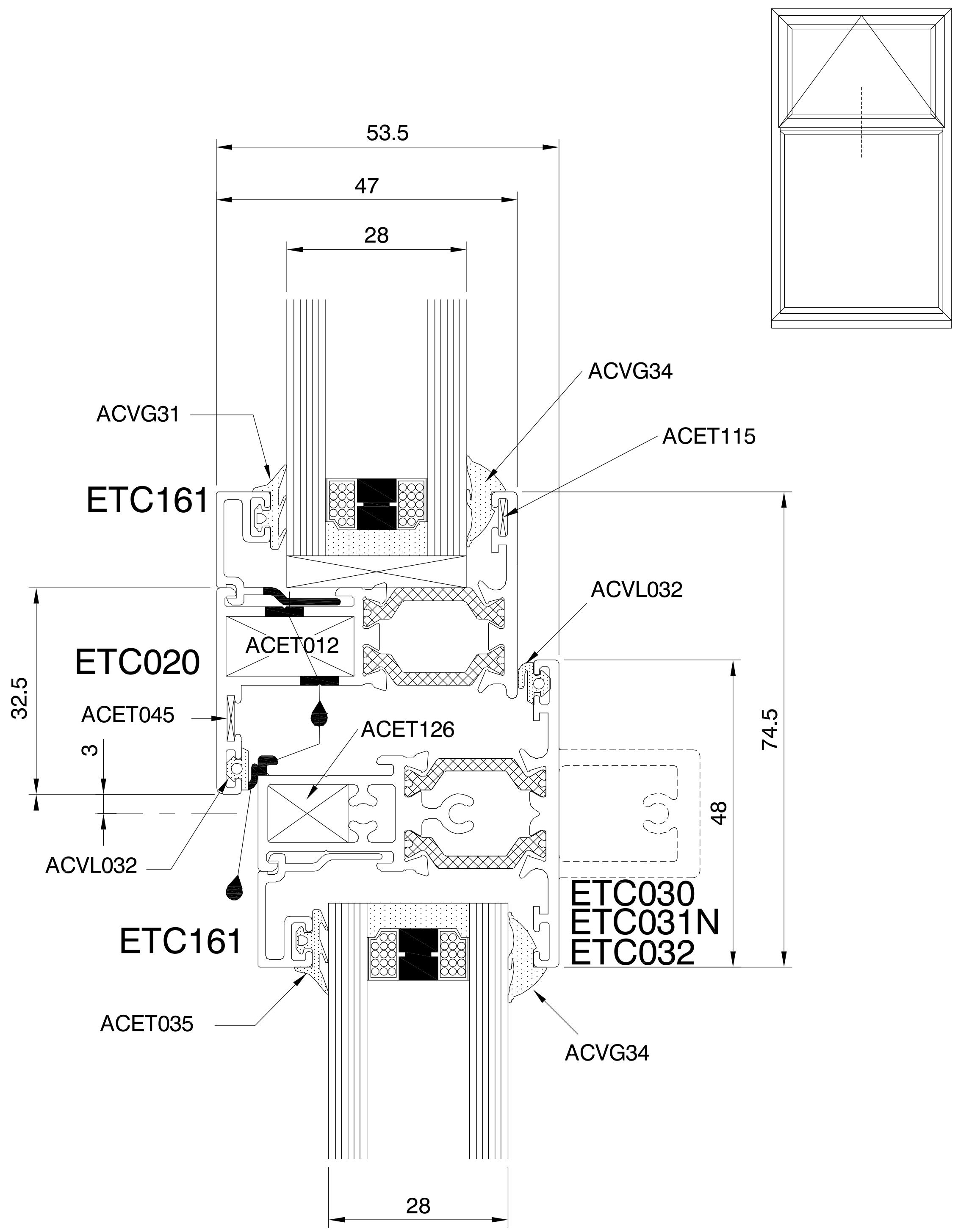
SECTION

18D


47
28
ACET035
ACVG34
ETC161
NOTE A FACE
NOTE B FACE
ETD030
109
ETC161
ACET035
ACVG34
28
cETC-47-58-00

SECTION

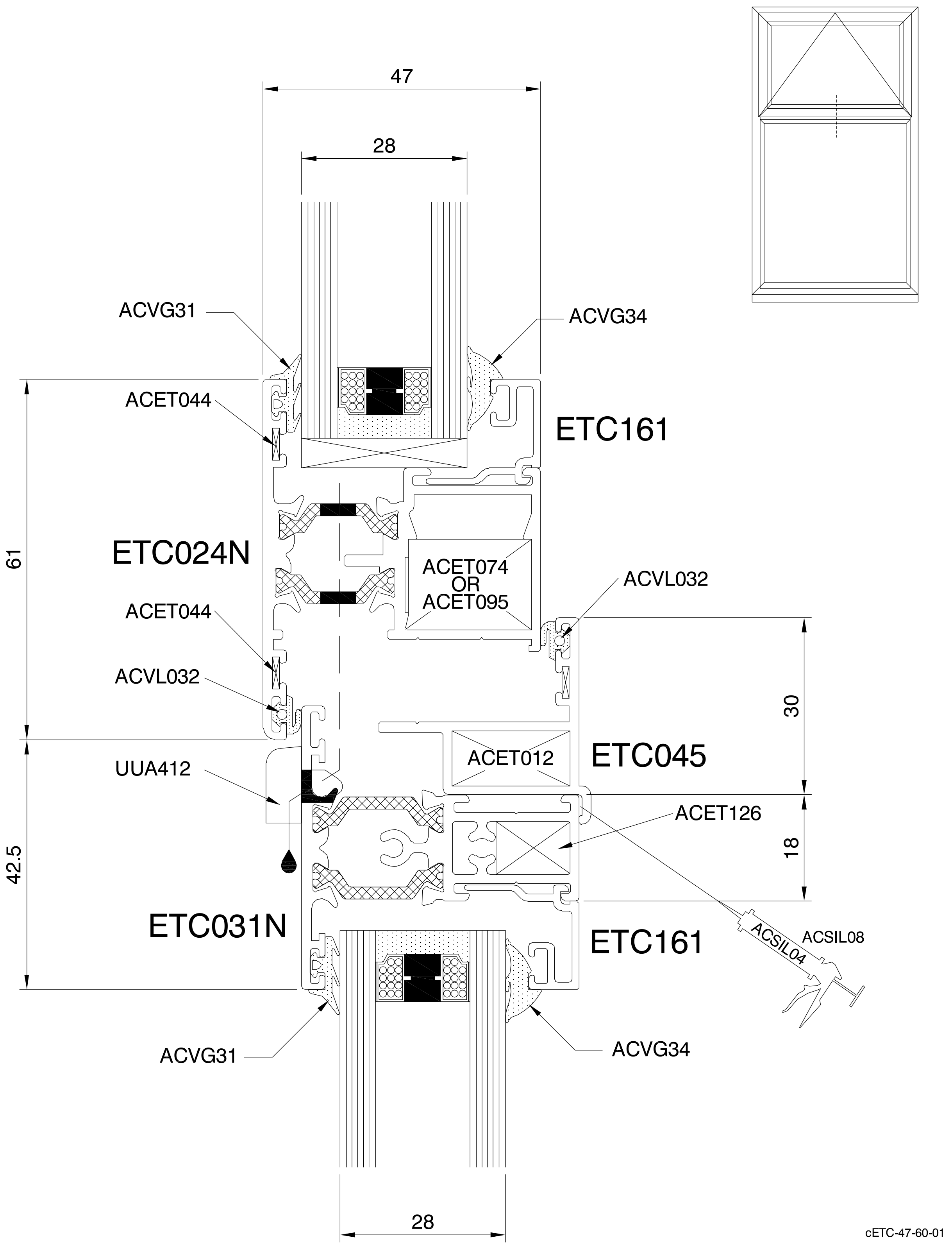
19A



cETC-47-30-03

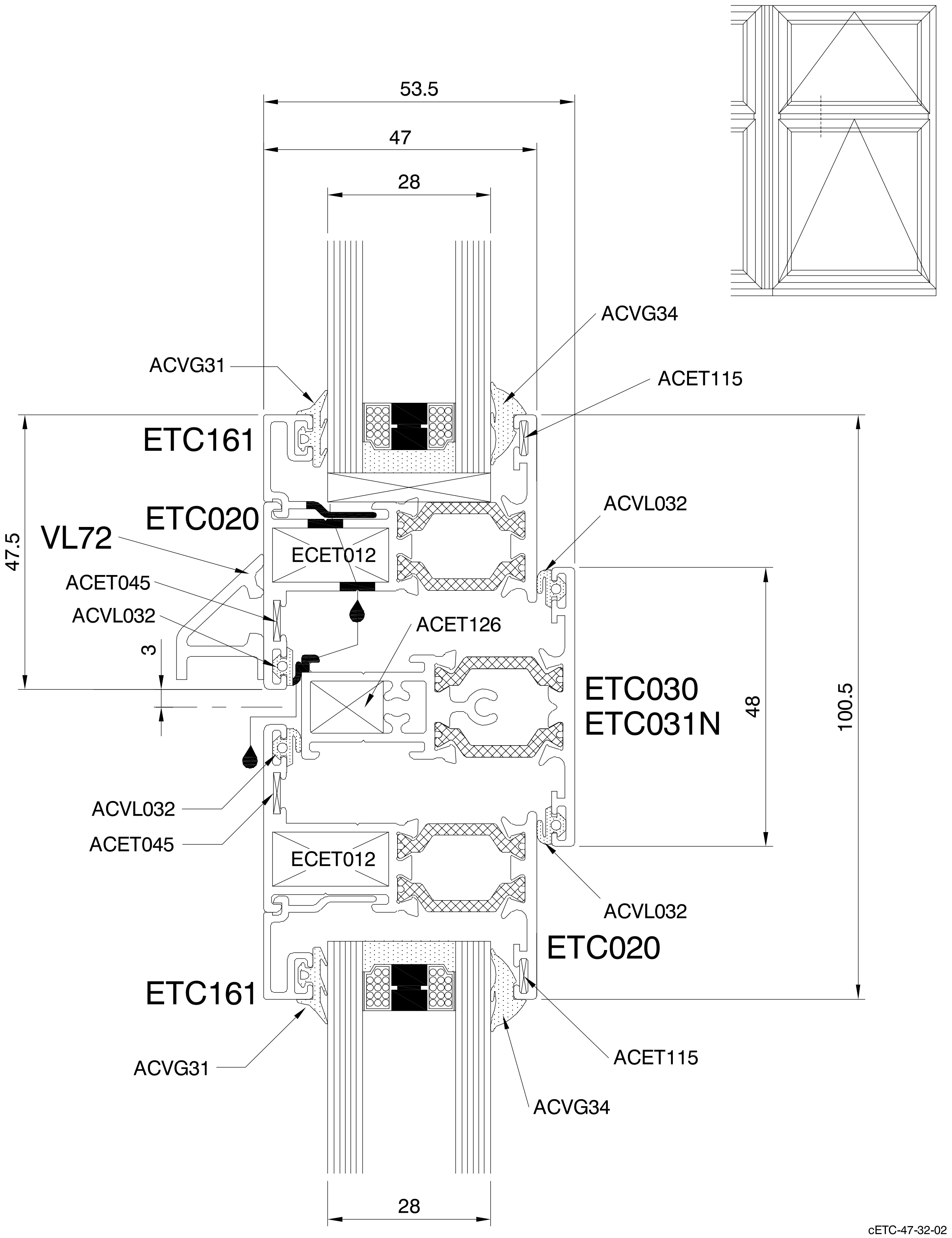
SECTION

19B


47
28
ACVG31
ACVG34
ACET044
ETC161
61
ETC024N
ACET074
OR
ACET095
ACVL032
ACET044
ACVL032
30
ACET012
ETC045
UUA412
ACET126
42.5
18
ETC031N
ETC161
ACSIL04
ACSIL08
ACVG31
ACVG34
28
cETC-47-60-01

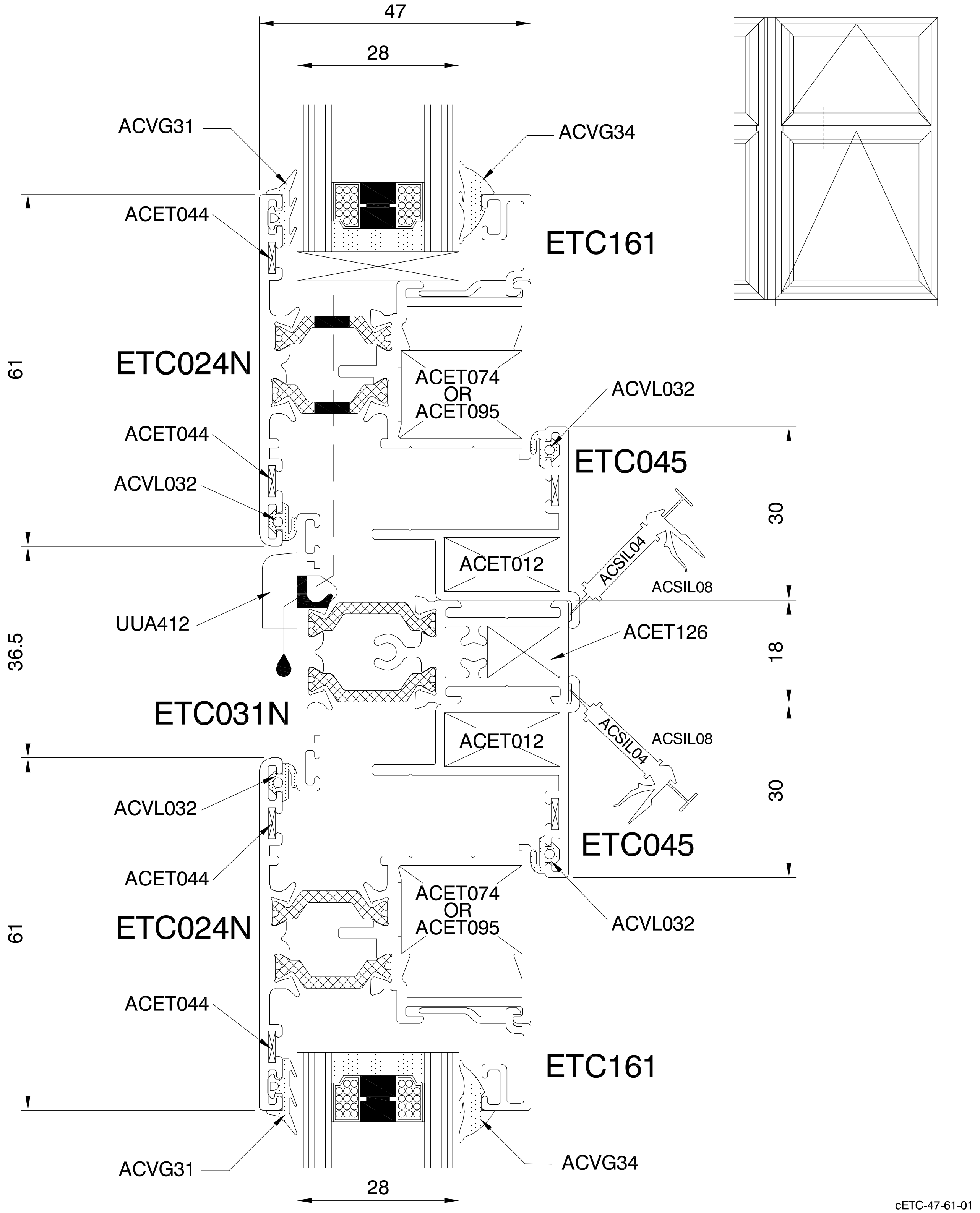
SECTION

20A


53.5
47
28
ACVG34
ACVG31
ACET115
ETC161
ACVL032
ETC020
VL72
ECET012
47.5
ACET045
ACVL032
ACET126
3
ETC030
ETC031N
48
100.5
ACVL032
ACET045
ECET012
ACVL032
ETC020
ETC161
ACET115
ACVG31
ACVG34
28
cETC-47-32-02

SECTION

20B


47
28
ACVG31
ACVG34
ACET044
ETC161
ETC024N
ACET074
OR
ACET095
ACVL032
ACET044
ETC045
ACVL032
61
30
ACSIL04
ACET012
ACSIL08
UUA412
ACET126
36.5
18
ETC031N
ACET012
ACSIL08
ACSIL04
30
ACVL032
ACET044
ETC045
ETC024N
ACET074
OR
ACET095
ACVL032
61
ACET044
ETC161
ACVG31
ACVG34
28
cETC-47-61-01

STATICS

DETAILS NOT YET AVAILABLE

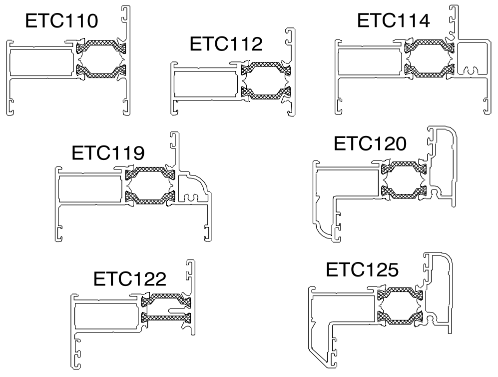
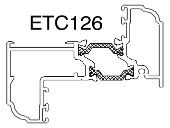
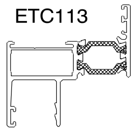
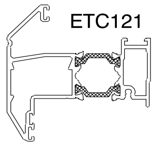
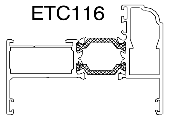
ALITHERM

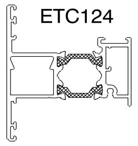
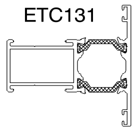
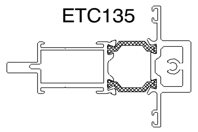
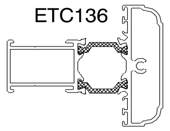
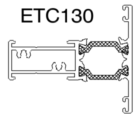
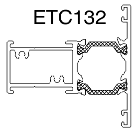
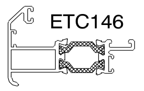
CONSTRUCTION DRAWINGS

smart SYSTEMS

1/2/2007

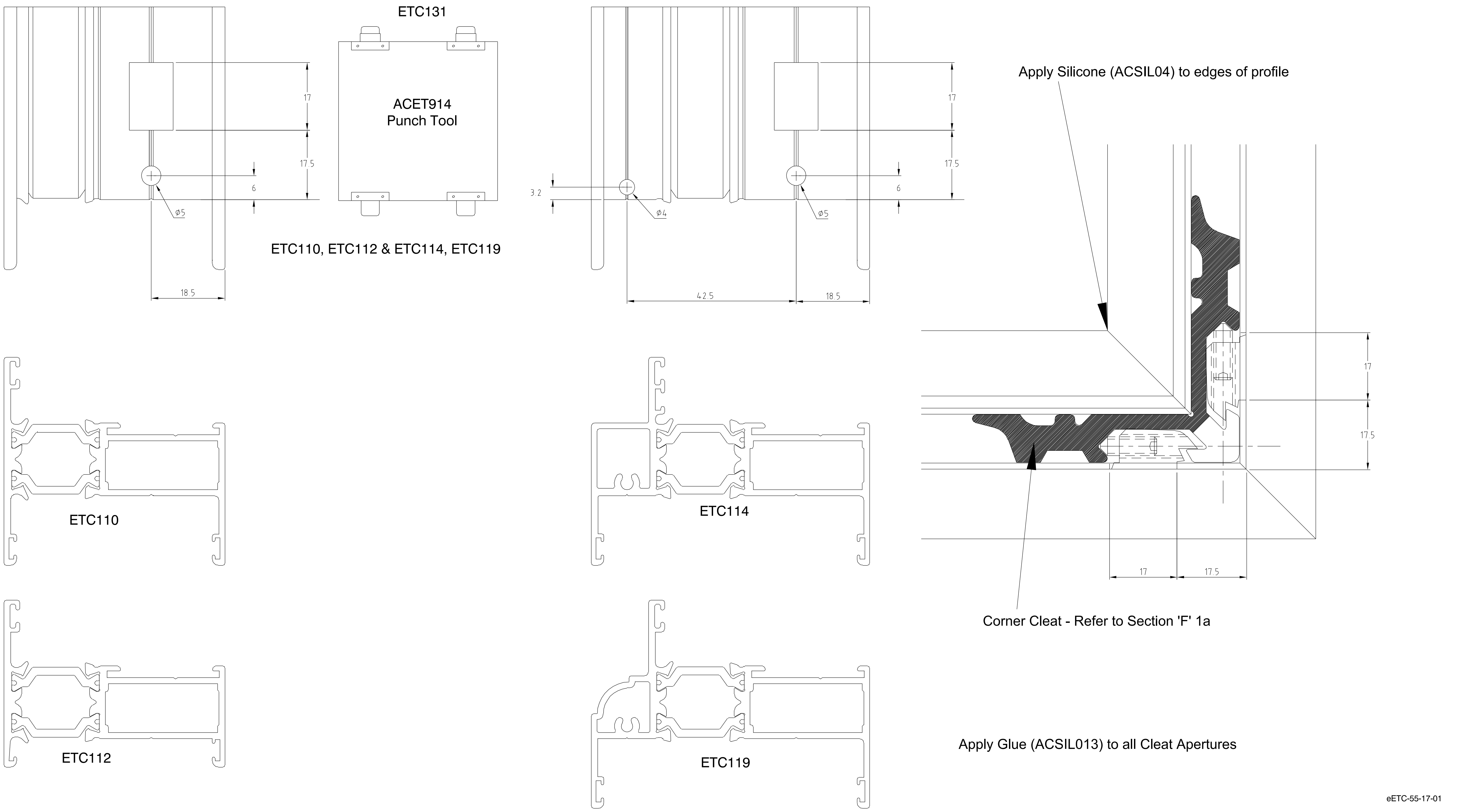
1A

PROFILES	TOOLING / COMPONENTS
	MECHANICAL CLEAT - ACET011 PUNCH TOOLING - ACET914 CORNER CHEVRON - ACET044 CORNER CHEVRON - ACET115 CORE SCREW - ACET060 CORE DRILL - ACET907 CRIMPING CLEAT - ACIN010 'V' BLOCK - ACET900 CRIMPING PUNCH - ACET905
ETC126 	MECHANICAL CLEAT- ACET 139 PUNCH TOOL- ACET927 CORNER CHEVRONS- ACET045 CORE SCREW - ACET060 CORE DRILL - ACET907 CRIMPING CLEAT - ACET146 VEE BLOCK - ACET928 CRIMPING PUNCH - ACET930
ETC113 	MECHANICAL CLEAT - ACET011 PUNCH TOOLING - ACET914
ETC121 	MECHANICAL CLEAT - ACET011 PUNCH TOOLING - ACET914 CORNER CHEVRON - ACET044 CORE SCREW - ACET060 CORE DRILL - ACET907 CRIMPING CLEAT - ACIN010 'V' BLOCK - ACET901 CRIMPING PUNCH - ACET902
ETC116 	MECHANICAL CLEAT - ACET137 MECHANICAL CLEAT - ACET138 PUNCH TOOLING - ACET927 CORNER CHEVRON - ACET044 CRIMPING CLEAT - ACET144 CRIMPING CLEAT - ACET145 'V' BLOCK - ACET928 CRIMPING PUNCH - ACET929 DRILL JIG-ACET931

PROFILES	TOOLING / COMPONENTS
ETC124 	MECHANICAL CLEAT - ACET057 PUNCH TOOLING - ACET922 CORNER CHEVRON - WCA106 CORNER CHEVRON - ACET045 CORE SCREW - ACET060 CORE DRILL - ACET907 CRIMPING CLEAT - ACET136 'V' BLOCK - ACET135 CRIMPING PUNCH - ACET904
ETC131  ETC135 	MECHANICAL CLEAT - ACET016 MECHANICAL CLEAT - ACET090 PUNCH TOOLING - ACET914 CORE SCREW - ACET060
ETC136 	MECHANICAL CLEAT - ACET016 PUNCH TOOLING - ACET927 CORE SCREW - ACET060 END MILL-SPECIAL CONTACT TECHNICAL DEP'T
ETC130 	MECHANICAL CLEAT-ACET043 CORE SCREW-ACET066 DRILL JIG-ACET908
ETC132 	MECHANICAL CLEAT-ACET051 CORE SCREW-ACET066 DRILL JIG-ACET910
ETC146 	CORNER CHEVRON - ACET045 CRIMPING CLEAT - ACET078 'V' BLOCK - WTT066HSZ CRIMPING PUNCH - ACET904

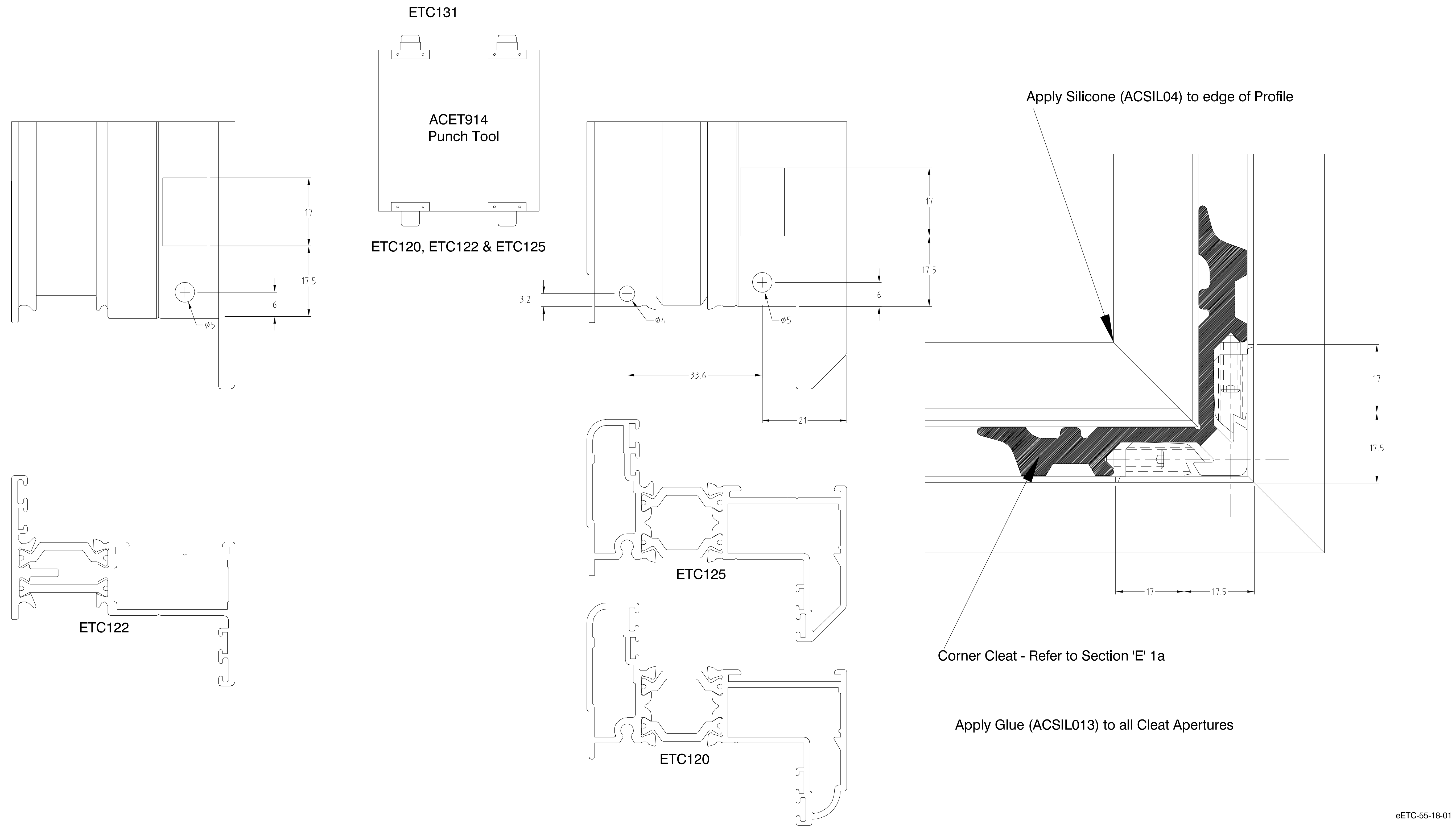
eETC-55-01-03

1B

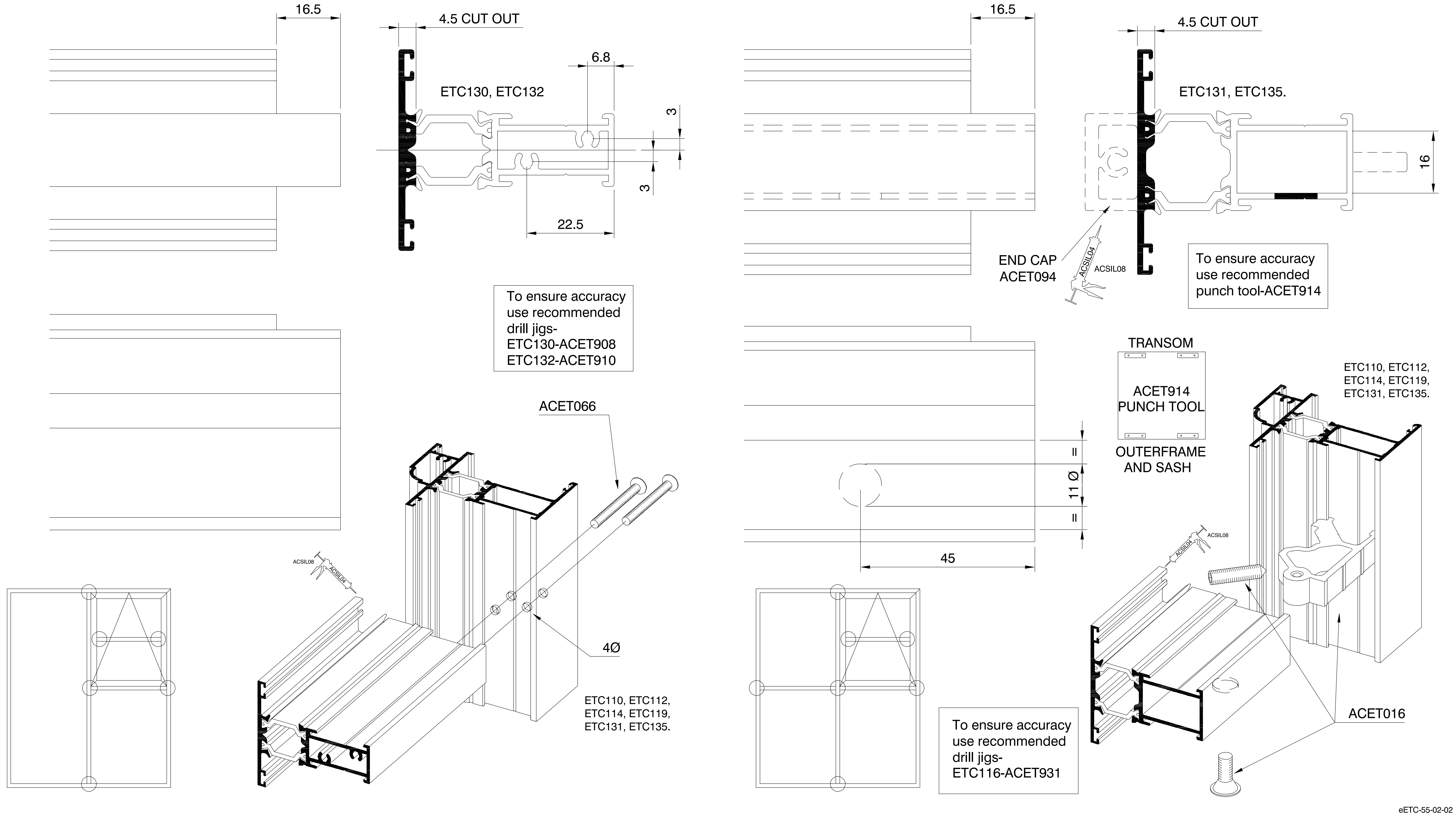


eETC-55-17-01

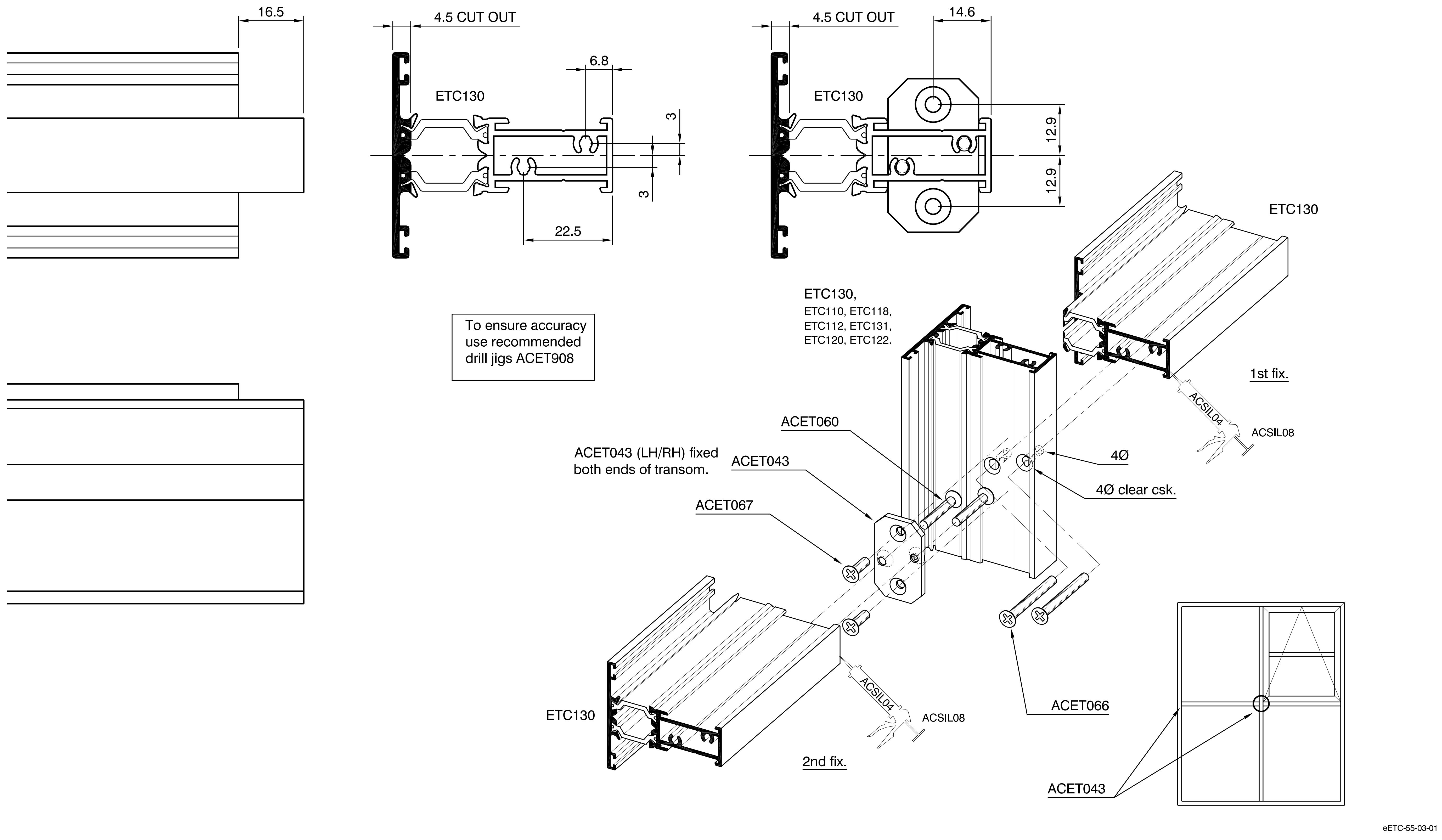
1C


ETC131
ACET914
Punch Tool
ETC120, ETC122 & ETC125
Apply Silicone (ACSIL04) to edge of Profile
17
17.5
6
ø5
3.2
ø4
33.6
21
ETC122
ETC125
ETC120
Corner Cleat - Refer to Section 'E' 1a
Apply Glue (ACSIL013) to all Cleat Apertures
eETC-55-18-01

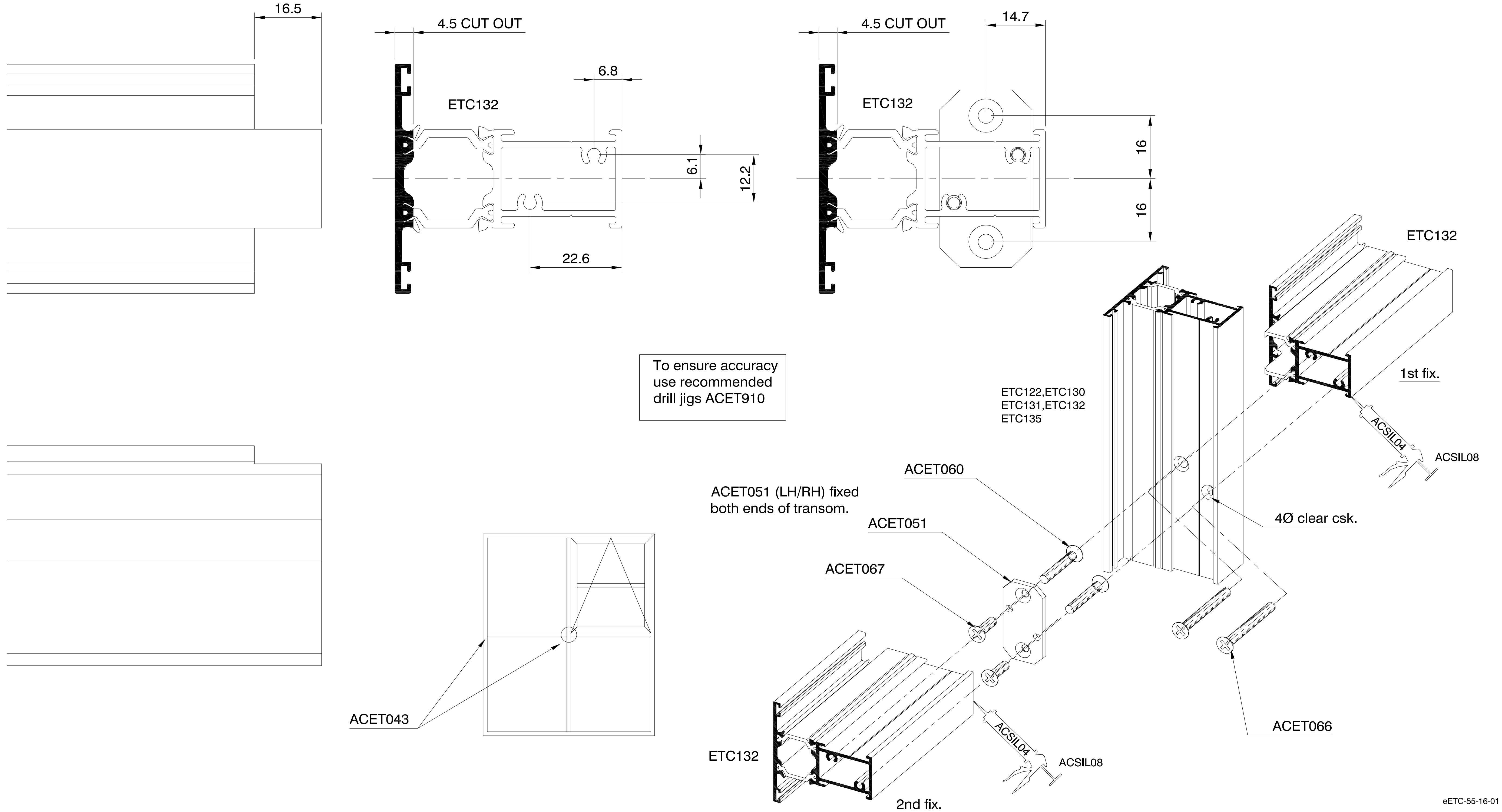
2A


16.5
4.5 CUT OUT
6.8
ETC130, ETC132
3
3
22.5
To ensure accuracy use recommended drill jigs-
ETC130-ACET908
ETC132-ACET910
ACET066
ACSIL08
ACSIL04
4Ø
ETC110, ETC112,
ETC114, ETC119,
ETC131, ETC135.
16.5
4.5 CUT OUT
ETC131, ETC135.
16
END CAP
ACET094
ACSIL04
ACSIL08
To ensure accuracy use recommended punch tool-ACET914
TRANSOM
ACET914
PUNCH TOOL
OUTERFRAME
AND SASH
=
11 Ø
=
45
ETC110, ETC112,
ETC114, ETC119,
ETC131, ETC135.
ACSIL08
ACSIL04
ACET016
To ensure accuracy use recommended drill jigs-
ETC116-ACET931
eETC-55-02-02

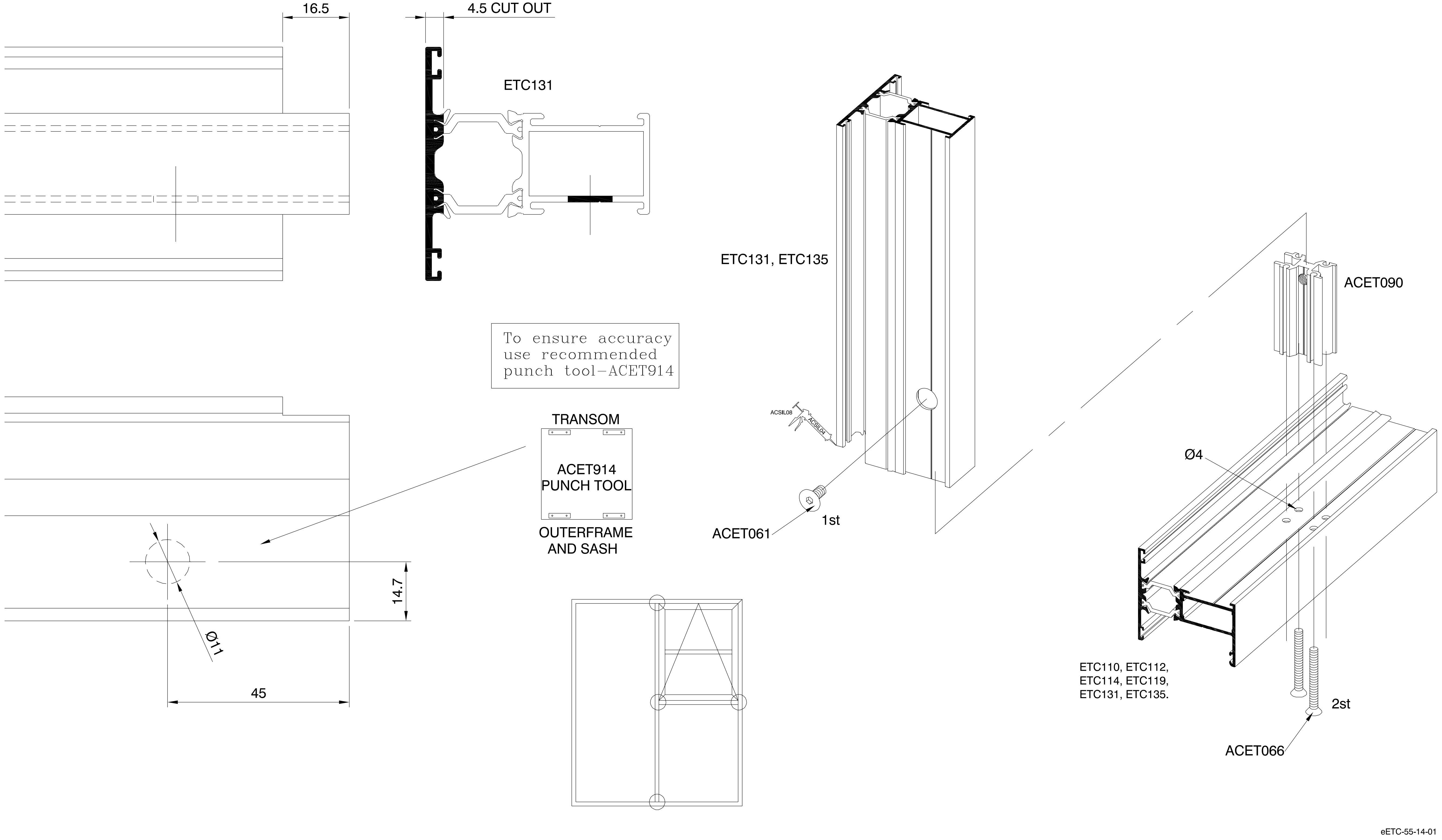
2B


16.5
4.5 CUT OUT
6.8
ETC130
3
3
22.5
4.5 CUT OUT
14.6
ETC130
12.9
12.9
ETC130
To ensure accuracy use recommended drill jigs ACET908
ETC130,
ETC110, ETC118,
ETC112, ETC131,
ETC120, ETC122.
1st fix.
ACSIL04
ACSIL08
ACET060
ACET043 (LH/RH) fixed both ends of transom.
ACET043
4Ø
4Ø clear csk.
ACET067
ETC130
ACSIL04
ACSIL08
ACET066
2nd fix.
ACET043
eETC-55-03-01

2C

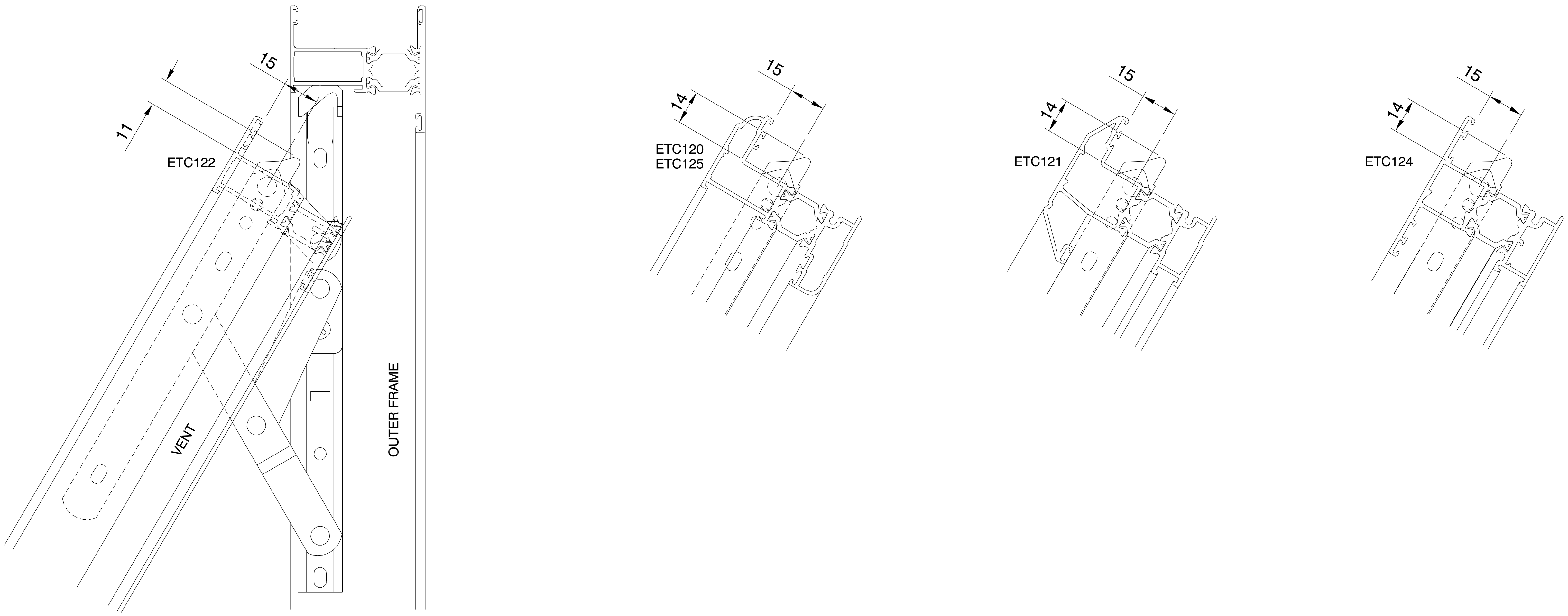

16.5
4.5 CUT OUT
6.8
ETC132
6.1
12.2
22.6
4.5 CUT OUT
14.7
ETC132
16
16
ETC132
To ensure accuracy use recommended drill jigs ACET910
ETC122,ETC130
ETC131,ETC132
ETC135
1st fix.
ACSIL04
ACSIL08
ACET060
ACET051 (LH/RH) fixed both ends of transom.
ACET051
4Ø clear csk.
ACET067
ACET043
ACET066
ETC132
ACSIL04
ACSIL08
2nd fix.
eETC-55-16-01

2D


16.5
4.5 CUT OUT
ETC131
To ensure accuracy
use recommended
punch tool–ACET914
TRANSOM
ACET914
PUNCH TOOL
OUTERFRAME
AND SASH
14.7
Ø11
45
ETC131, ETC135
ACSIL08
ACET061
1st
ACET090
Ø4
ETC110, ETC112,
ETC114, ETC119,
ETC131, ETC135.
2st
ACET066
eETC-55-14-01

3A

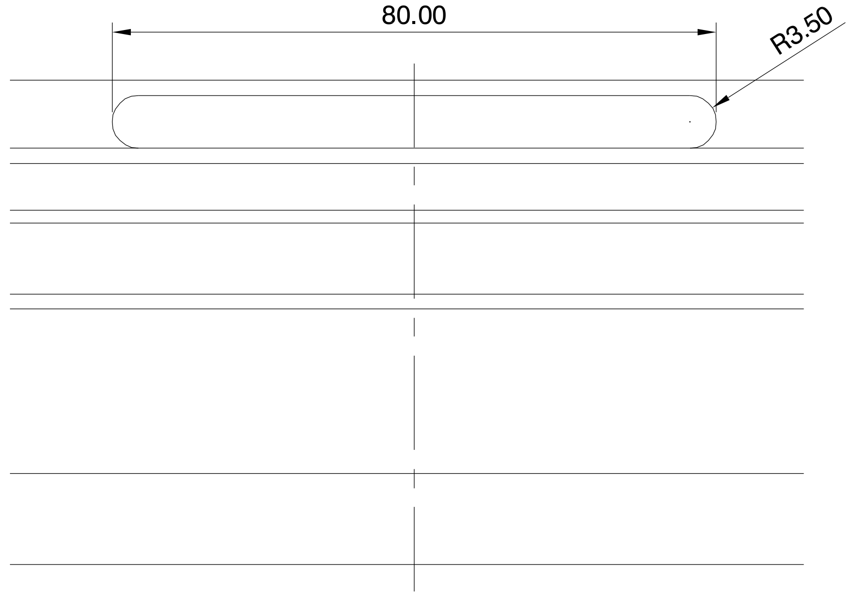
TO BE READ IN CONJUNCTION WITH ETCb (HINGES)



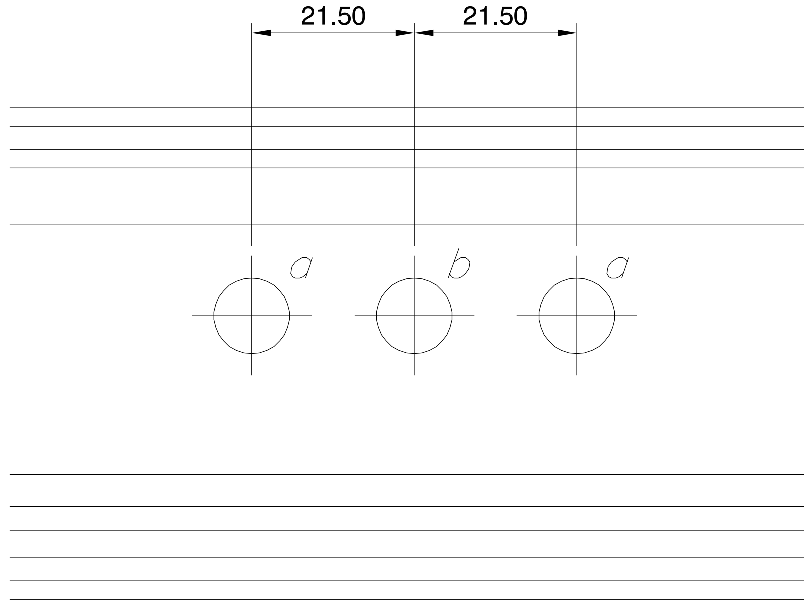
TOP HUNG HEIGHT AND SIDE HUNG WIDTH SASH SIZES TO BE
REDUCED BY 2mm WHERE SIZE IS 450mm OR SMALLER

eETC-55-04-01

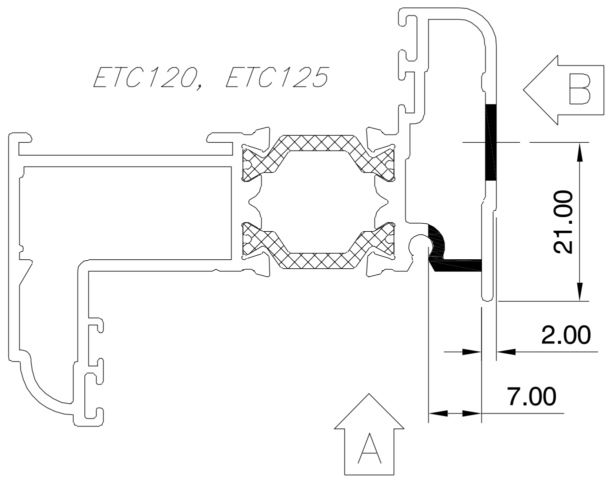
4A

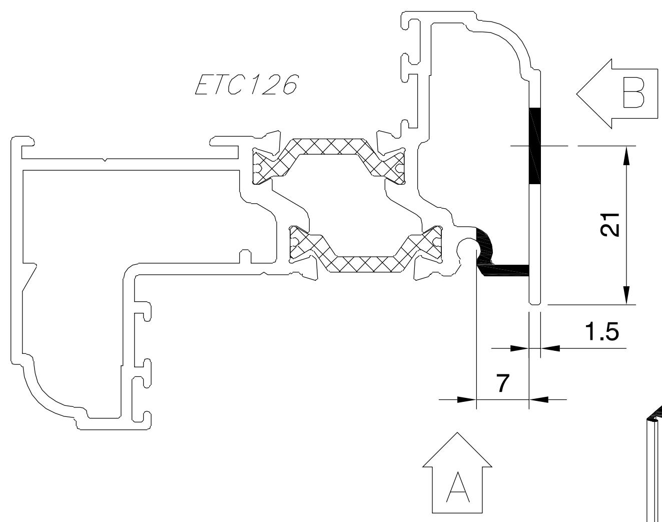


View on arrow – A



View on arrow – B

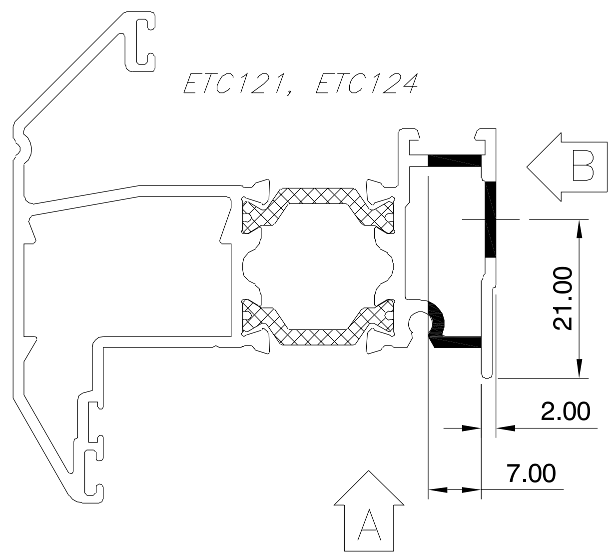


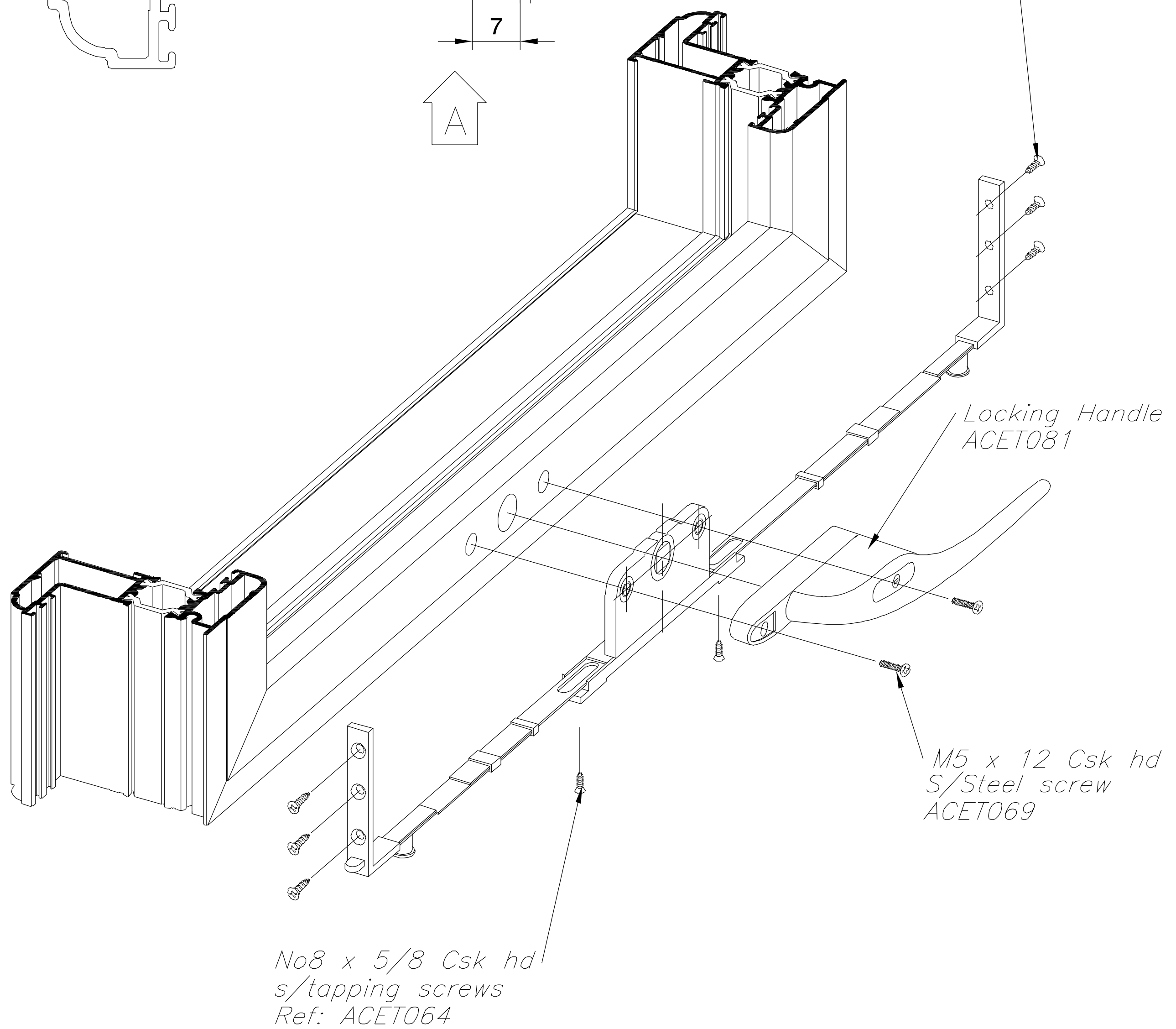


Special Note:

Holes a - Drill 10.5mm Dia. for **<u>Black Handles</u>**
- Drill 10mm Dia. for **<u>all other Handles</u>**

Hole b - Drill 11mm Dia.

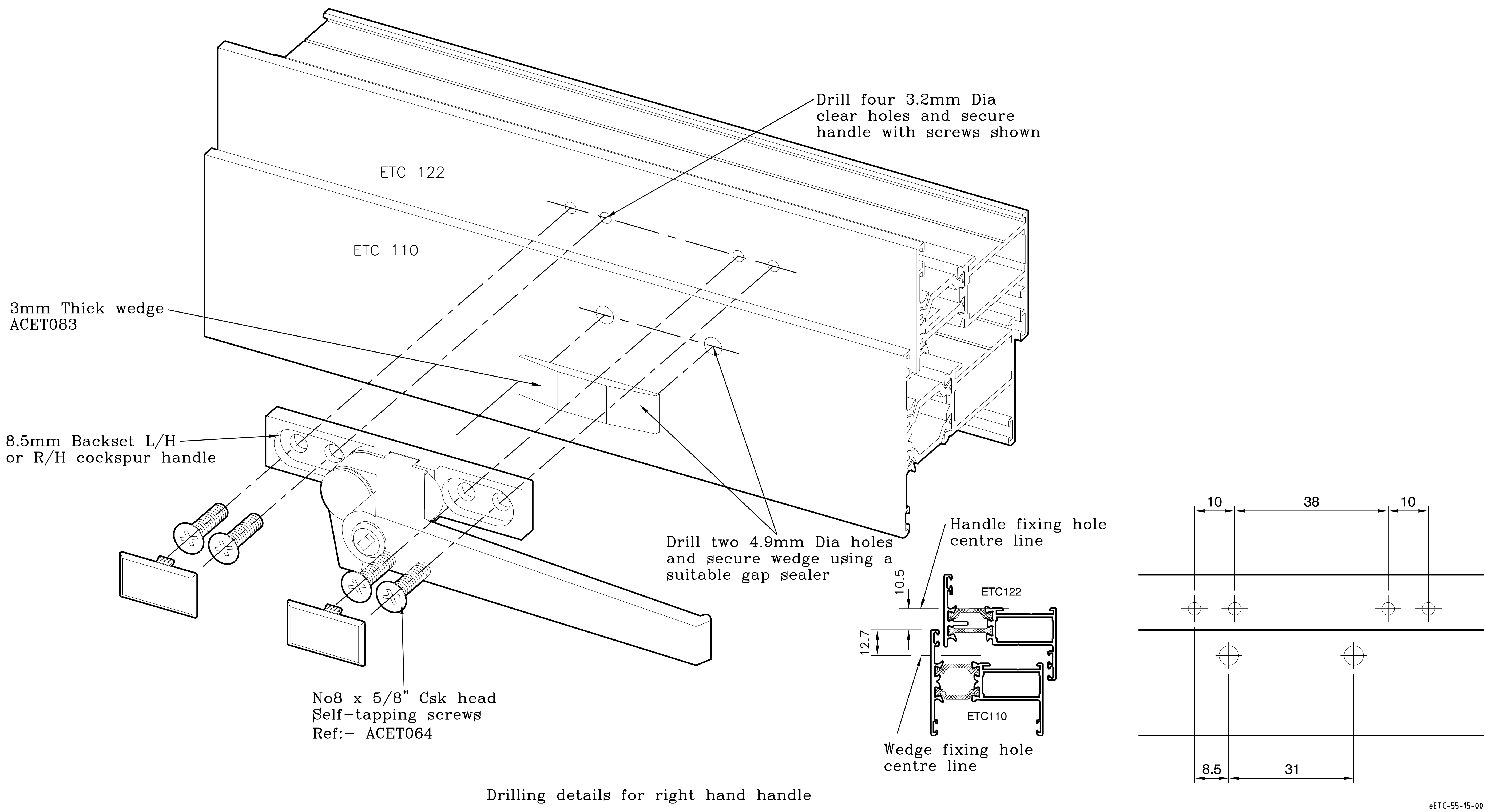




eETC-55-05-02

4B

COCKSPUR HANDLE–ACET080L/R

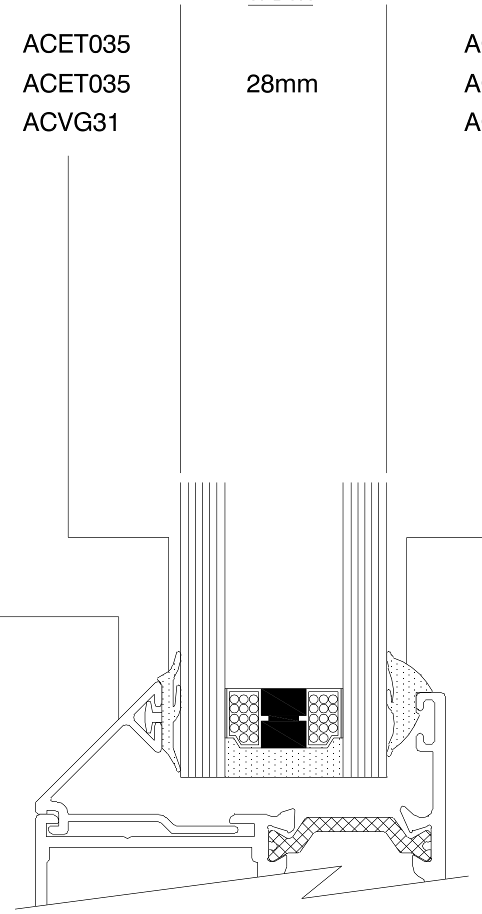


Drilling details for right hand handle

5A

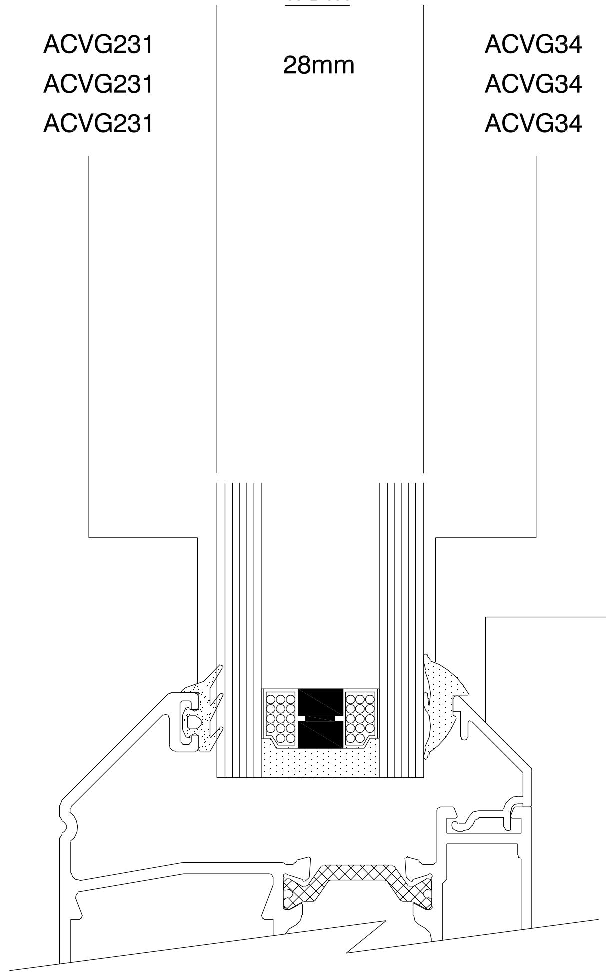
EXTERNALLY BEADED

BEAD	SEAL	GLAZING WIDTH	* SEAL
ETC262	ACET035		ACVG34
ETC263	ACET035	28mm	ACVG34
ETC265	ACVG31		ACVG34



INTERNALLY BEADED

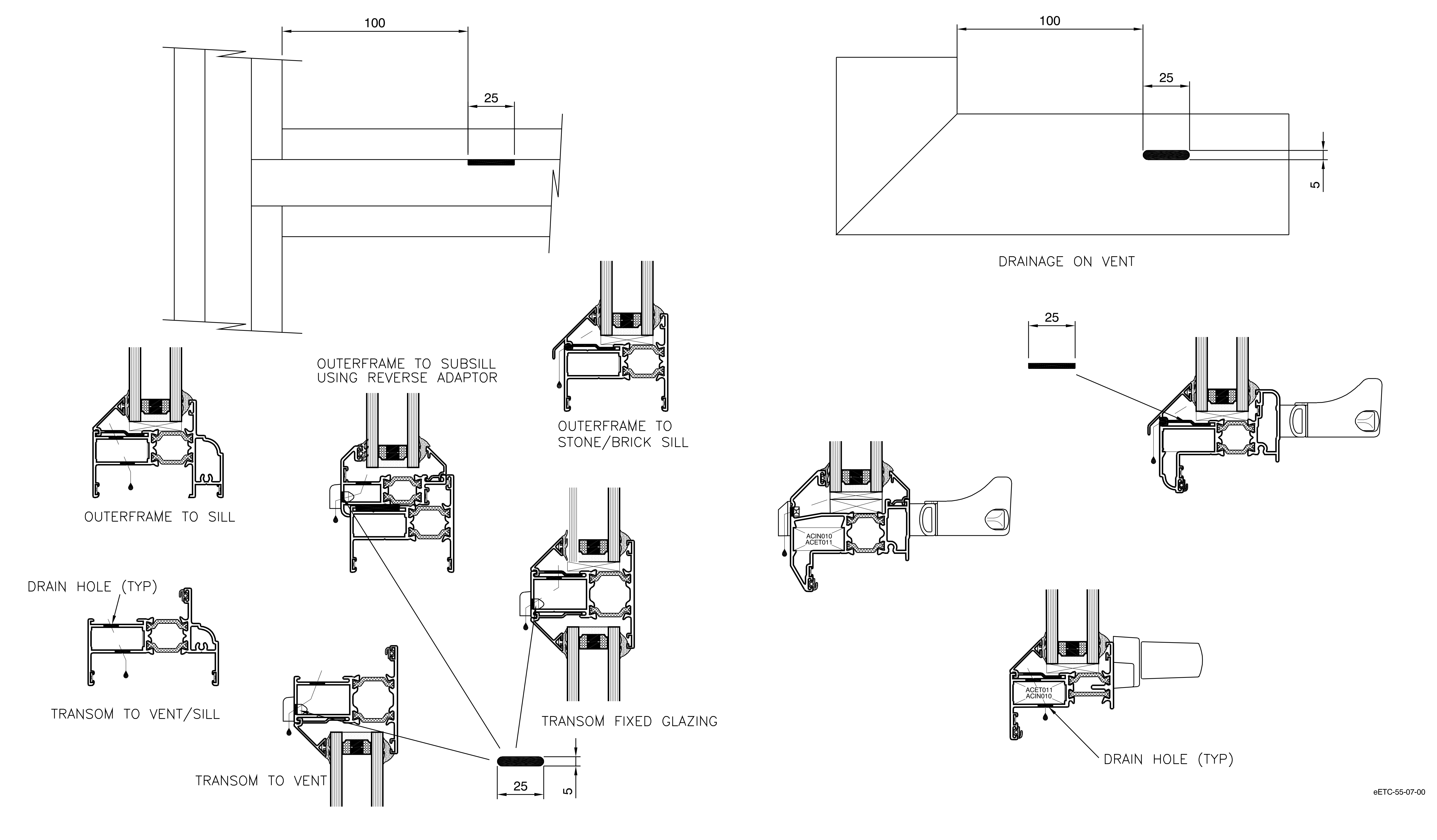
SEAL	GLAZING WIDTH	* SEAL	BEAD
ACVG231		ACVG34	ETC264
ACVG231	28mm	ACVG34	ETC266
ACVG231		ACVG34	ETC267



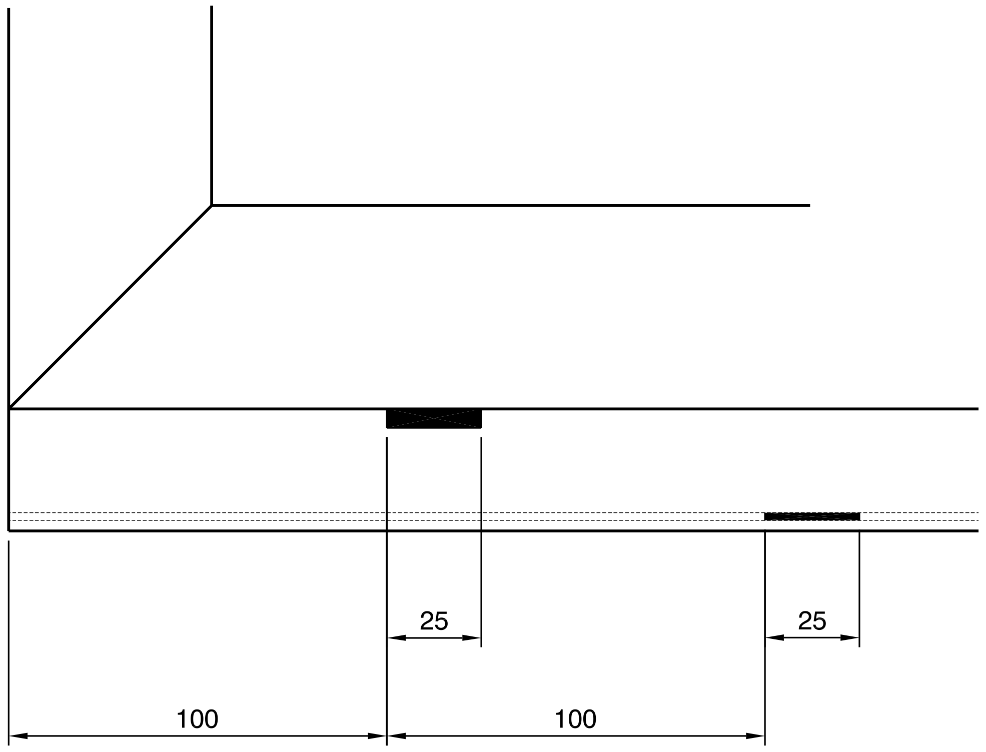
NOTE:-
DUE TO MACHINE TOLERANCES OF PROFILES AND BEADS (MILL/PAINTED FINISH) AND GLAZED UNIT WIDTH.
THE SEAL MARKED * MAY NEED CHANGING TO ACVG33.

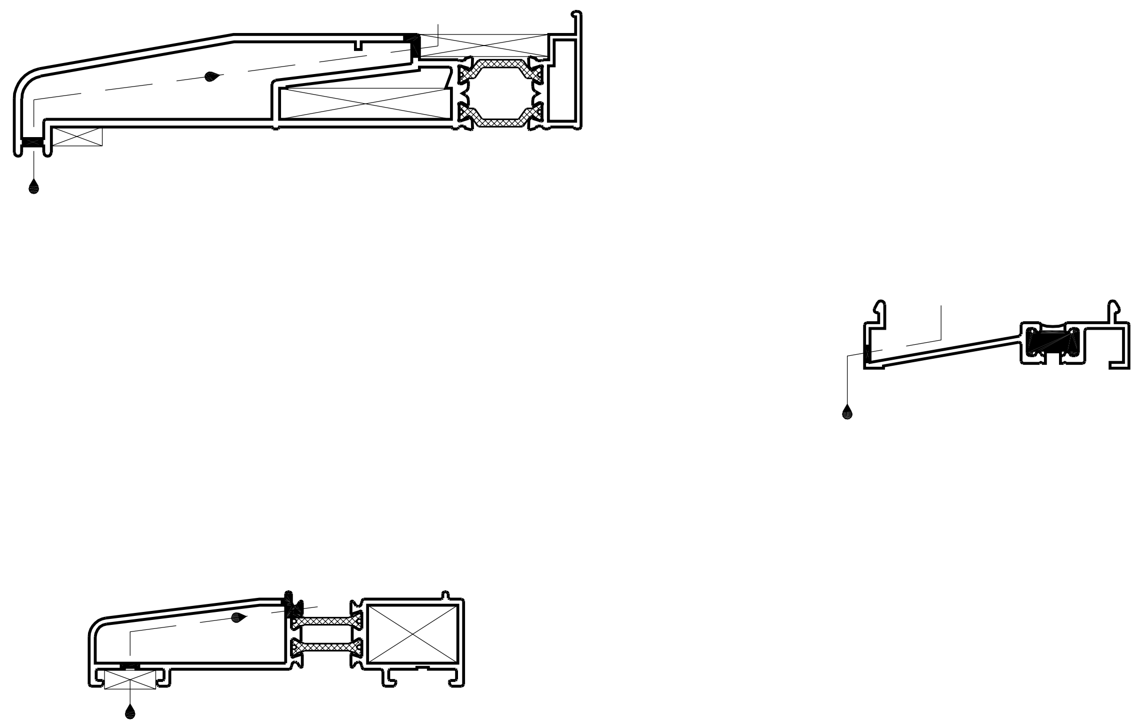
eETC-55-06-01

6A


100
25
100
25
5
DRAINAGE ON VENT
25
OUTERFRAME TO SUBSILL
USING REVERSE ADAPTOR
OUTERFRAME TO
STONE/BRICK SILL
OUTERFRAME TO SILL
ACIN010
ACET011
DRAIN HOLE (TYP)
TRANSOM TO VENT/SILL
ACET011
ACIN010
TRANSOM FIXED GLAZING
DRAIN HOLE (TYP)
TRANSOM TO VENT
25
5
eETC-55-07-00

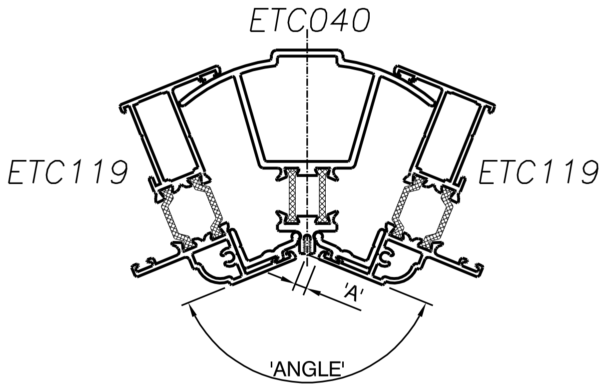
6B



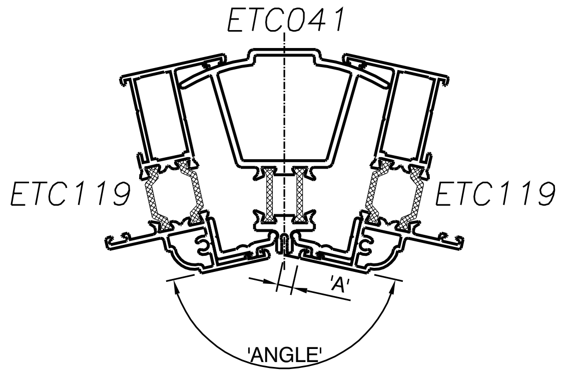


eETC-55-08-01

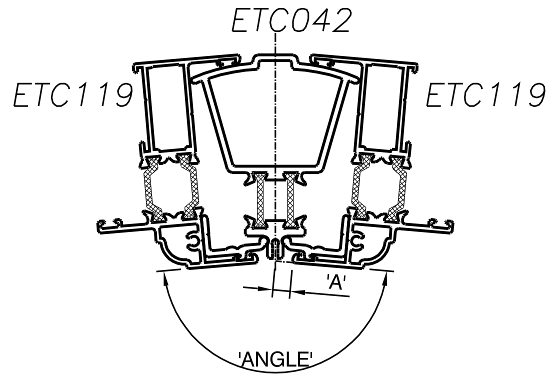
7A



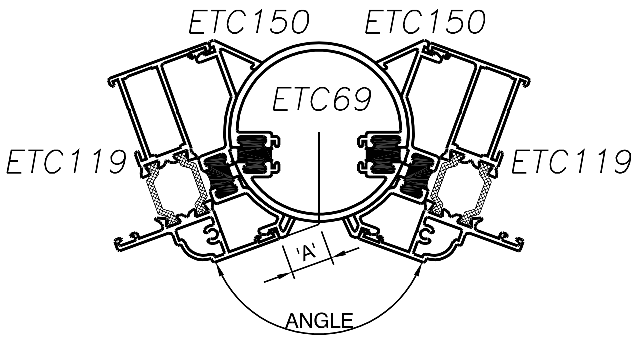
ANGLE	DEDUCTION 'A'
136°	4
134°	4
132°	4
130°	3.5
128°	3.5
126°	3.5
124°	3
122°	3
120°	3



ANGLE	DEDUCTION 'A'
155°	5
153°	5
151°	5
149°	5
147°	4.5
145°	4.5
143°	4.5
141°	4
139°	4
137°	4

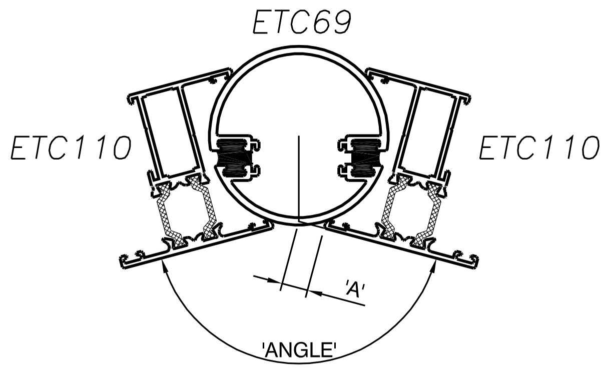


ANGLE	DEDUCTION 'A'
170°	6
168°	6
166°	6
164°	5.5
162°	5.5
160°	5.5
158°	5
156°	5



ANGLE	DEDUCTION 'A'
180°	24.5
175°	23
170°	22
165°	21
160°	19.5
155°	18
150°	17
145°	15.5
140°	14
135°	12.5
130°	11
125°	9
120°	8
115°	6
110°	4

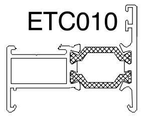
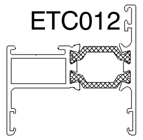
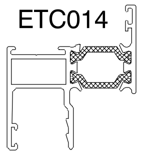
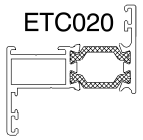
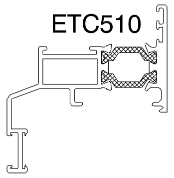
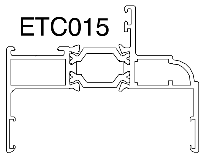
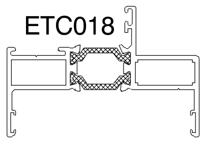
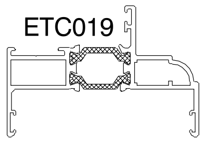
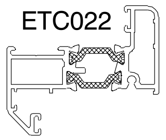
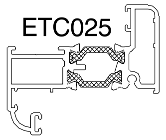
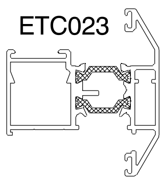
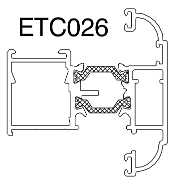
MINIMUM ANGLE IS 109° WITH A DEDUCTION OF 3.83

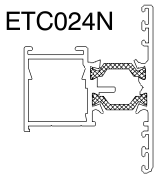
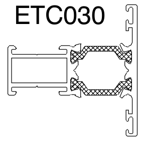
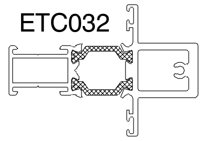
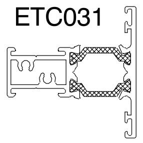
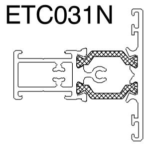
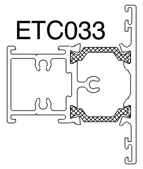
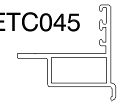
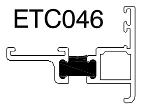
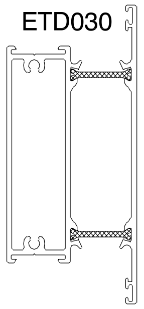


ANGLE	DEDUCTION 'A'
180°	16
175°	15
170°	14
165°	12.5
160°	11.5
155°	10
150°	9
145°	7.5
140°	6
135°	4.5
130°	3
125°	2
120°	0

eETC-55-09-01

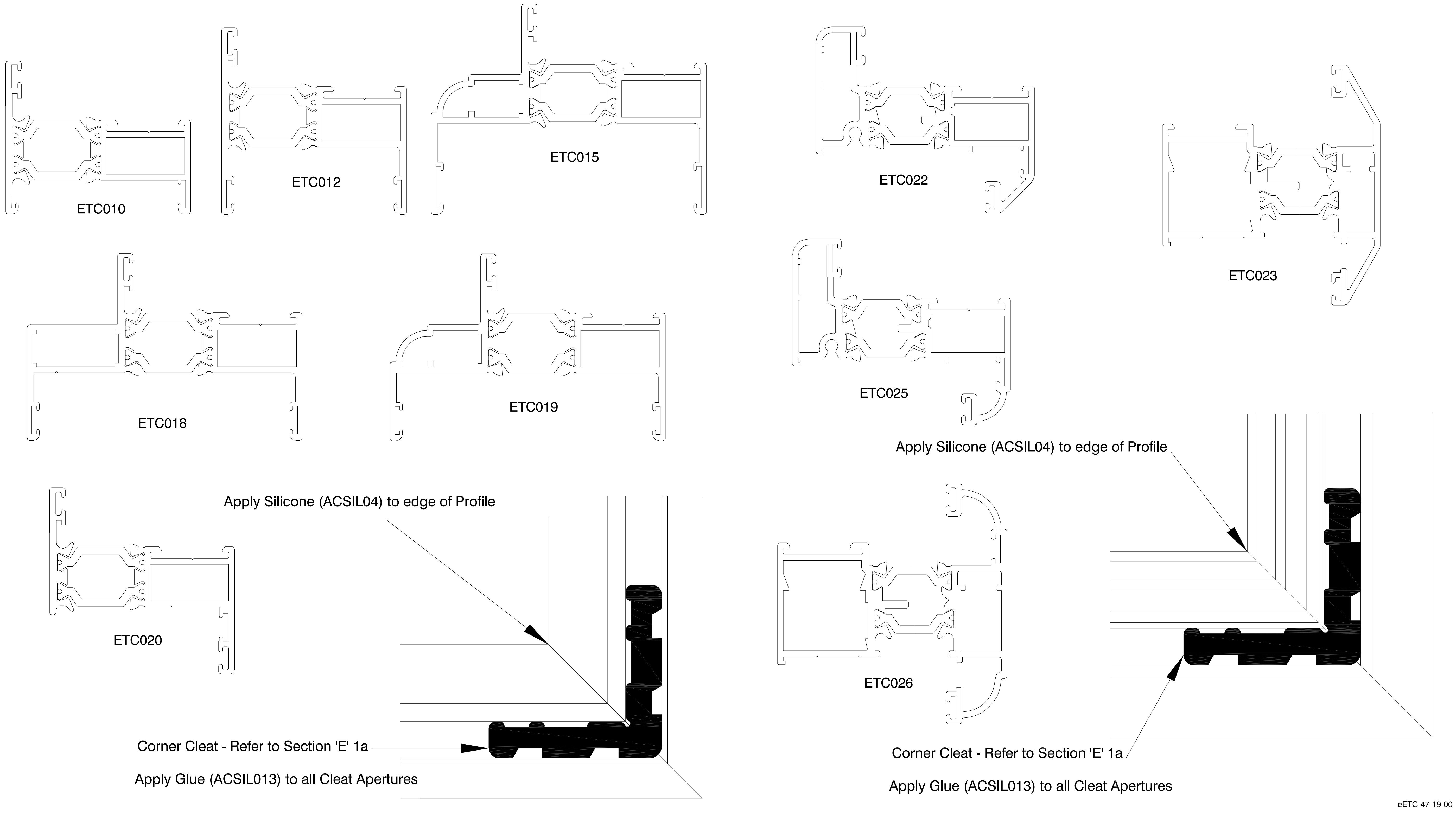
1A

PROFILES	TOOLING / COMPONENTS
ETC010  ETC012  ETC014  ETC020 	CORNER CHEVRON - ACET045 CORNER CHEVRON - ACET115 CRIMPING CLEAT - ACET012 'V' BLOCK - ACET900 CRIMPING PUNCH - ACET904
ETC510 	CORNER CHEVRON - ACET044 CRIMPING CLEAT - ACET012 'V' BLOCK - ACET900 CRIMPING PUNCH - NEW
ETC015  ETC018  ETC019 	CORNER CHEVRON - WCA106 CORNER CHEVRON - ACET044 CORNER CHEVRON - ACET045 CORNER CHEVRON - ACET115 CRIMPING CLEAT - ACET012 CRIMPING CLEAT - ACET049 'V' BLOCK - ACET917 CRIMPING PUNCH - ACET918
ETC022  ETC025 	CORE SCREW-ACET060 CORNER CHEVRON - ACET045 CRIMPING CLEAT - ACET050 'V' BLOCK - ACET912 CRIMPING PUNCH - ACET913 CORE SCREW DRILL-ACET907
ETC023  ETC026 	CRIMPING CLEAT - ACIP045a (ETC023) CRIMPING CLEAT - ACET106 (ETC026) CRIMPING CLEAT - ACET074 (SHOOTBOLT) CRIMPING CLEAT - ACET095 (COCKSPUR) 'V' BLOCK - ACET920 CRIMPING PUNCH - ACET921

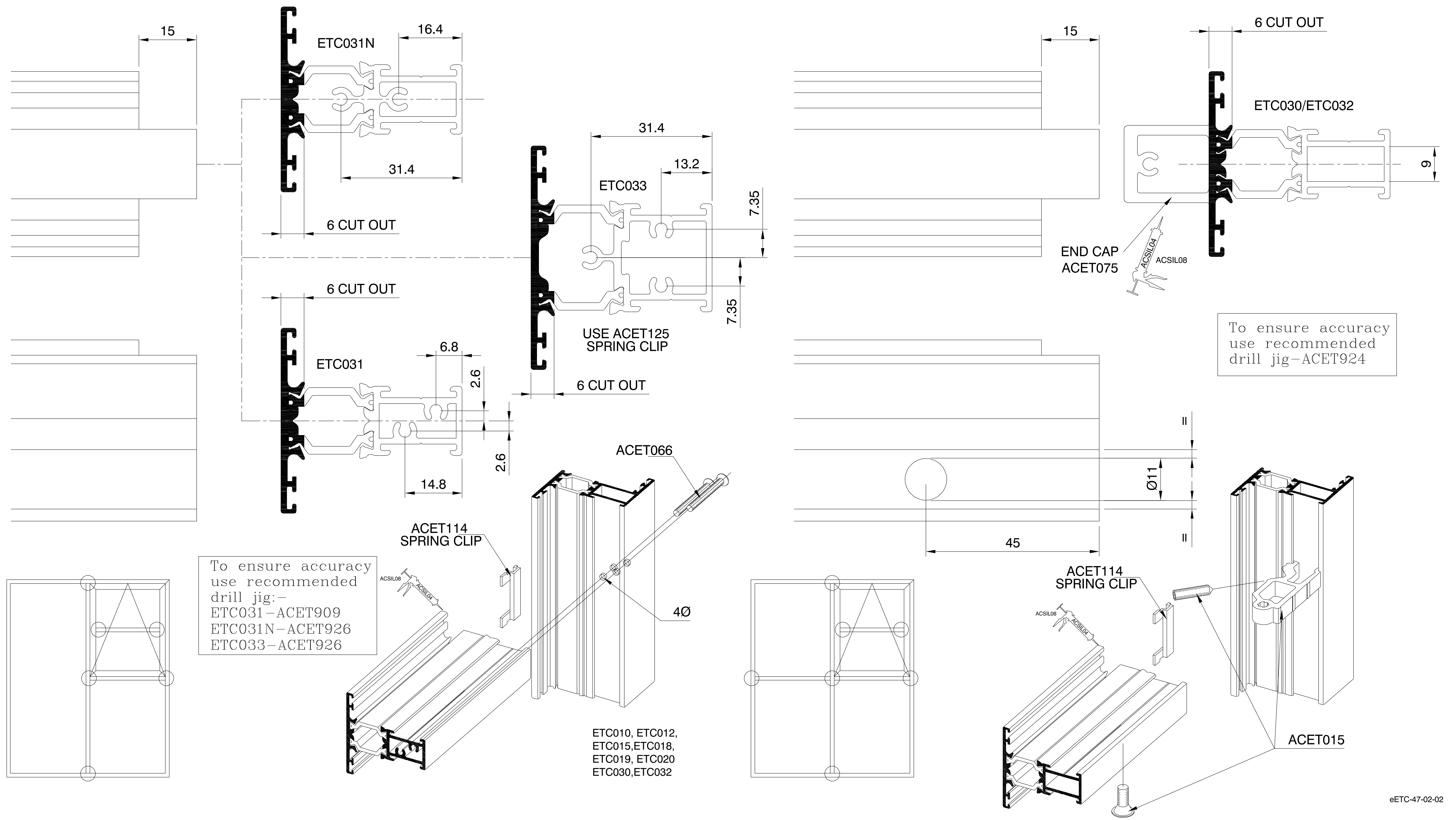
PROFILES	TOOLING / COMPONENTS
ETC024N 	CORNER CHEVRON - ACET044 CRIMPING CLEAT-ACET074(SHOOTBOLT) CRIMPING CLEAT - ACET095(COCKSPUR) 'V' BLOCK - ACET920 CRIMPING PUNCH - ACET921
ETC030  ETC032 	DRILL JIG-ACET924 MECHANICAL CLEAT - ACET015 MECHANICAL CLEAT - ACET091 MECHANICAL CLEAT - ACET128 (ETC030)
ETC031  ETC031N  ETC033 	MECHANICAL CLEAT - ACET126 (ETC031N) MECHANICAL CLEAT - ACET129 (ETC033) FIXING PLATE - ACET046 (ETC031) CORE SCREW-ACET066 DRILL JIG-ACET909 (ETC031) DRILL JIG-ACET926 (ETC031N) DRILL JIG-ACET926 (ETC033)
ETC045 	CORNER CHEVRON - ACET044 CRIMPING CLEAT - ACET012 'V' BLOCK - WCT072HSZ CRIMPING PUNCH - ACET904
ETC046 	CORNER CHEVRON - ACET045 CRIMPING CLEAT - ACET077 'V' BLOCK - WCT072HSZ CRIMPING PUNCH - ACET913
ETD030 	CORE SCREW-ACET079 DRILL JIG-ACET923
(ETC022--ETC025) TOP HUNGE STAY JIG SIDE HUNGE STAY JIG	ACET911 ACET915
CRIMPER-WUT024HSZA	

eETC-47-01-02

1B

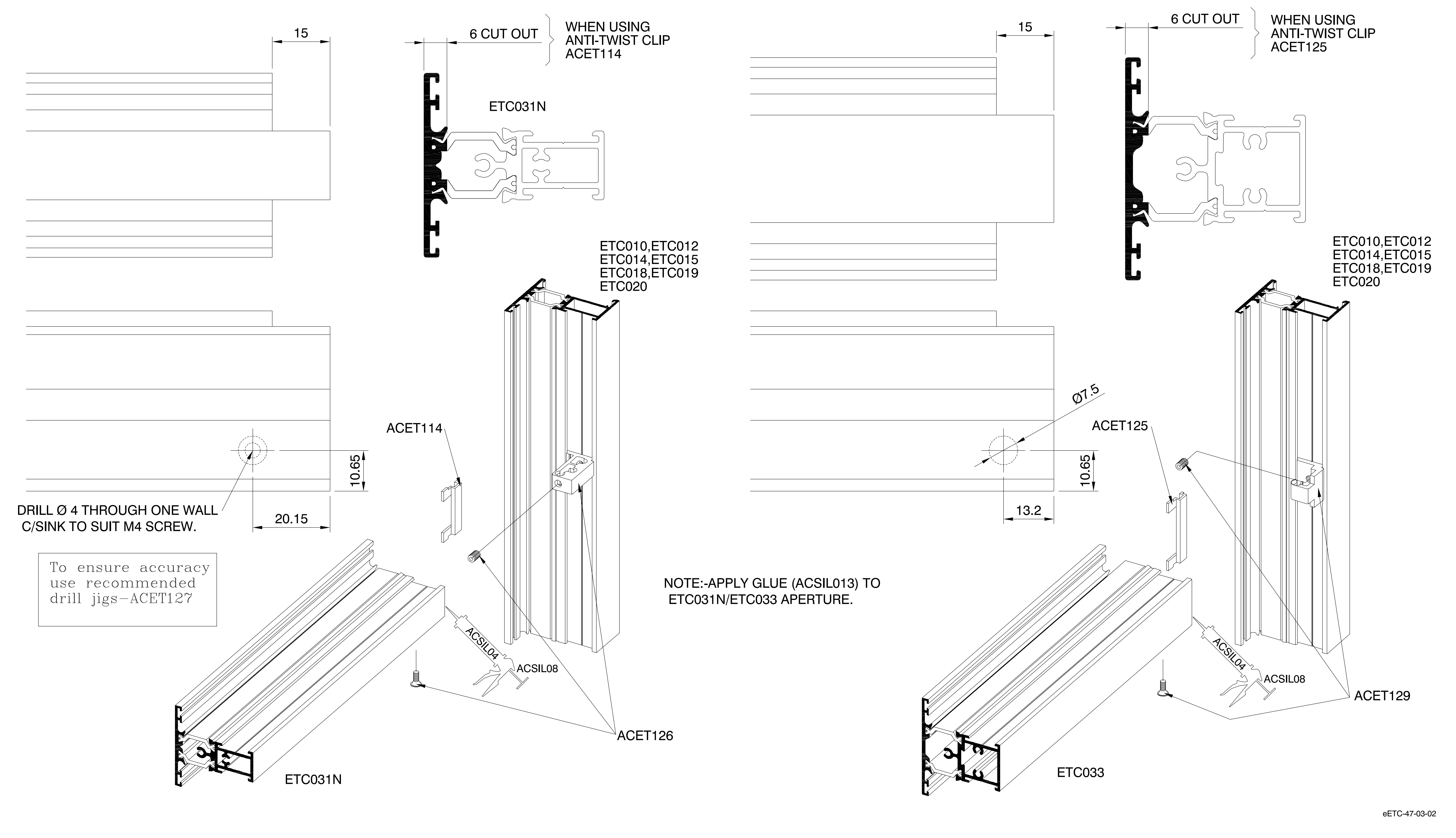

ETC010
ETC012
ETC015
ETC022
ETC023
ETC018
ETC019
ETC025
ETC020
ETC026
Apply Silicone (ACSIL04) to edge of Profile
Corner Cleat - Refer to Section 'E' 1a
Apply Glue (ACSIL013) to all Cleat Apertures
Apply Silicone (ACSIL04) to edge of Profile
Corner Cleat - Refer to Section 'E' 1a
Apply Glue (ACSIL013) to all Cleat Apertures
eETC-47-19-00

2A

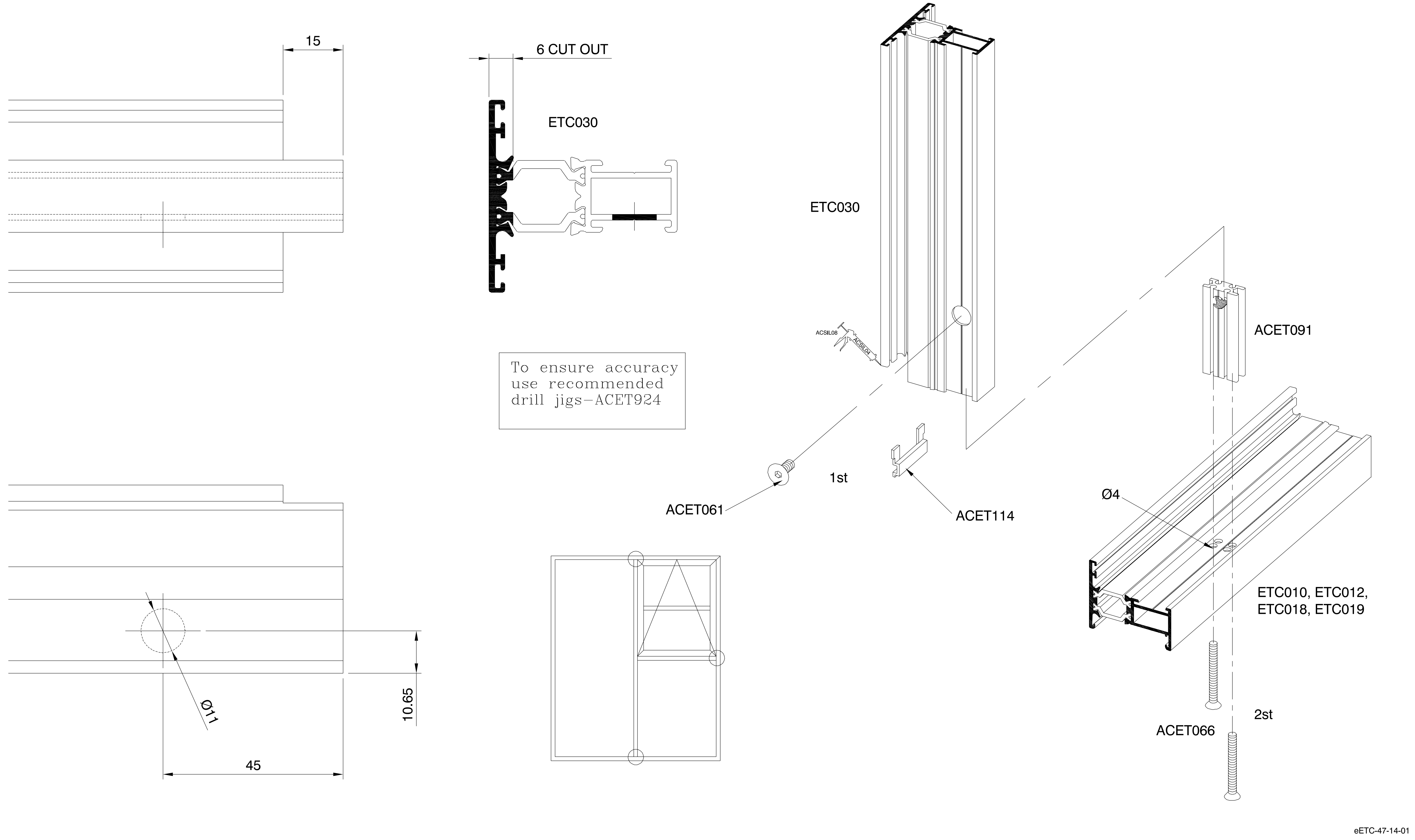

15
ETC031N
16.4
31.4
6 CUT OUT
6 CUT OUT
ETC031
6.8
2.6
2.6
14.8
31.4
13.2
ETC033
7.35
7.35
USE ACET125
SPRING CLIP
6 CUT OUT
ACET066
ACET114
SPRING CLIP
To ensure accuracy use recommended drill jig:-
ETC031-ACET909
ETC031N-ACET926
ETC033-ACET926
ACSIL08
ACSIL04
4Ø
ETC010, ETC012,
ETC015,ETC018,
ETC019, ETC020
ETC030,ETC032
15
6 CUT OUT
ETC030/ETC032
9
END CAP
ACET075
ACSIL04
ACSIL08
To ensure accuracy use recommended drill jig-ACET924
Ø11
45
ACET114
SPRING CLIP
ACSIL08
ACSIL04
ACET015
eETC-47-02-02

CONSTRUCTION DRAWINGS

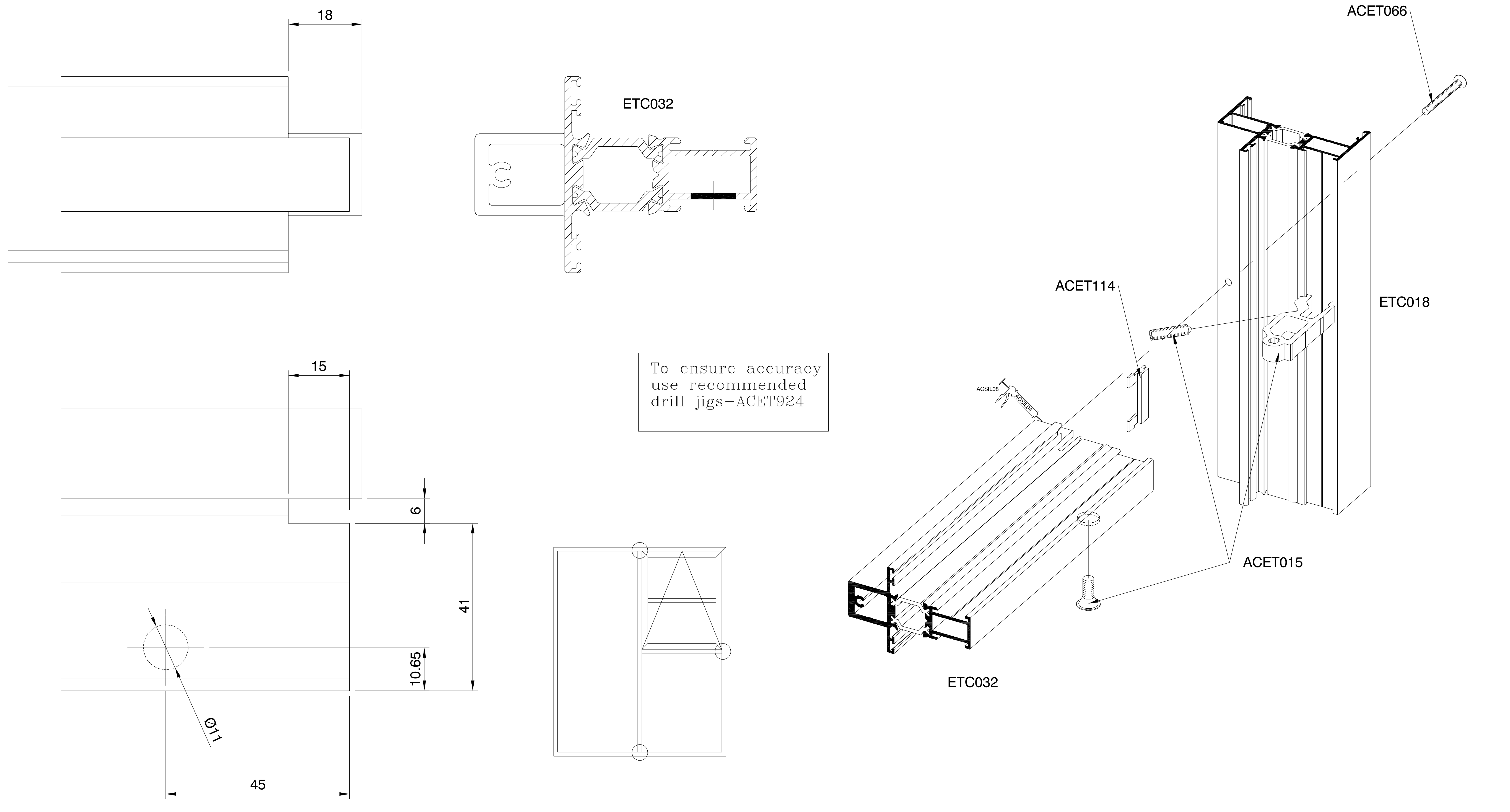
2B



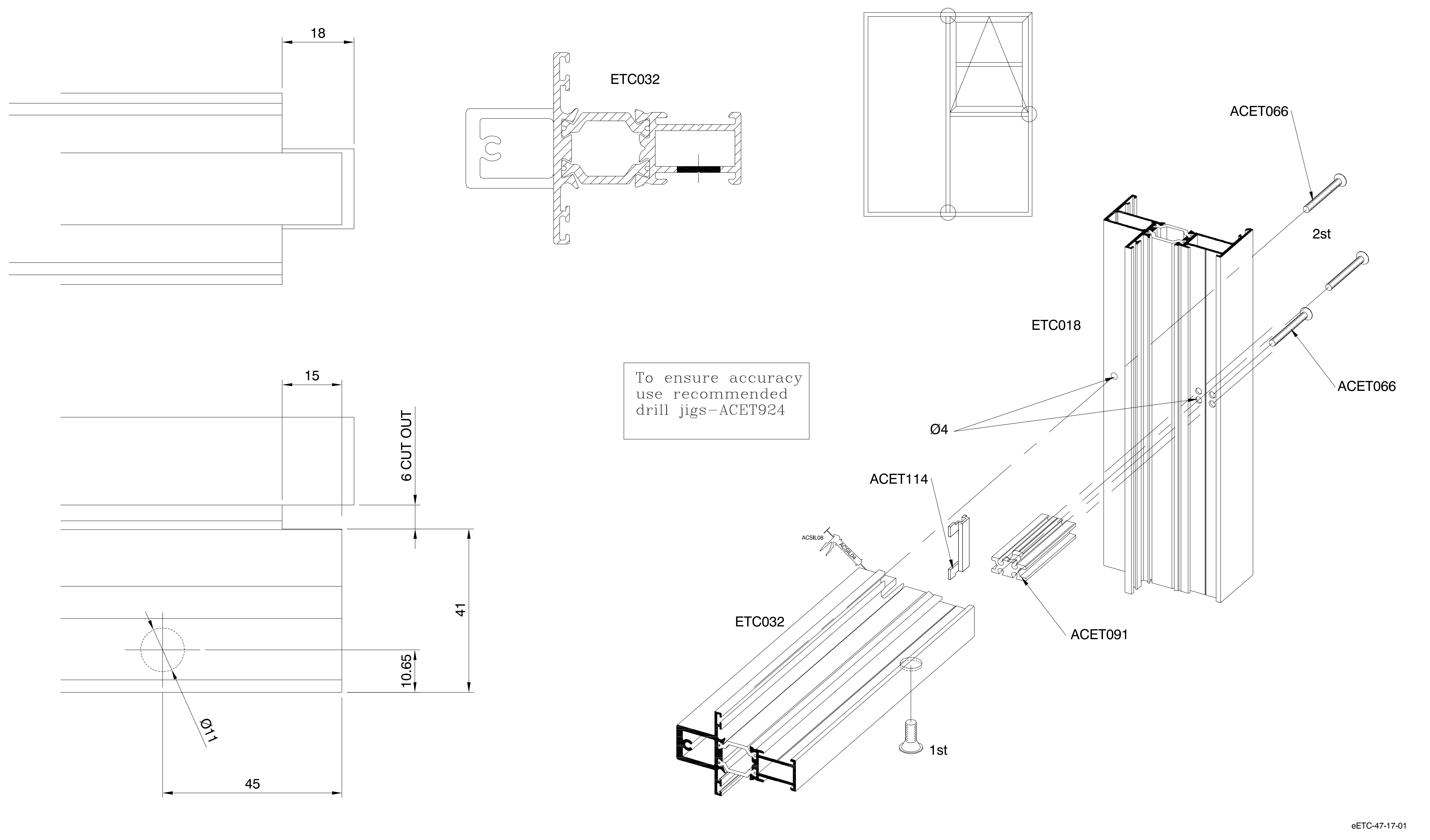
2C


15
6 CUT OUT
ETC030
To ensure accuracy use recommended drill jigs–ACET924
ETC030
ACET091
1st
ACET061
ACET114
Ø4
ETC010, ETC012, ETC018, ETC019
Ø11
10.65
45
2st
ACET066
eETC-47-14-01

2D


18
ETC032
ACET066
ACET114
ETC018
15
To ensure accuracy
use recommended
drill jigs–ACET924
6
41
10.65
Ø11
45
ACET015
ETC032
eETC-47-16-01

2E

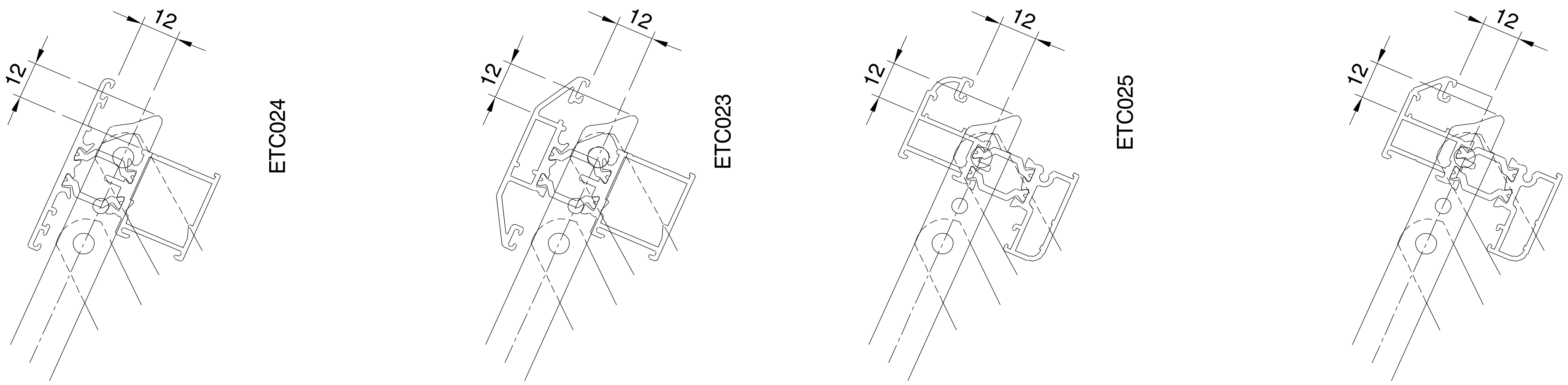


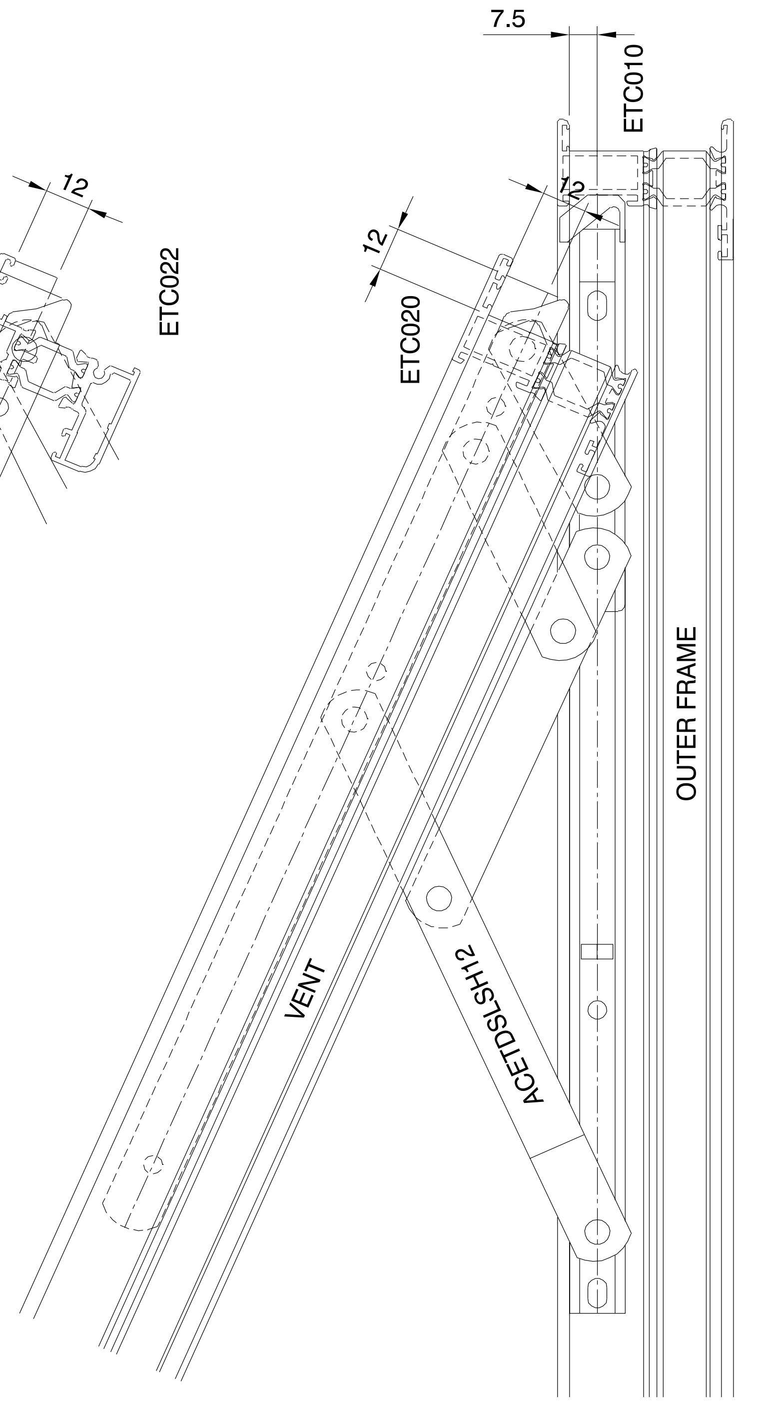
18
15
6 CUT OUT
41
10.65
Ø11
45
ETC032
To ensure accuracy use recommended drill jigs-ACET924
ACET066
2st
ETC018
Ø4
ACET066
ACET114
ACSIL08
ACET091
ETC032
1st
eETC-47-17-01

ALITHERM - 47

3A - SIDE HUNG

TO BE READ IN CONJUNCTION WITH ETCb (HINGES)





All others Stays
use ACET915 Jig

To ensure accuracy
use recommended
Drill Jig ACET915
for ECT023/024

Cotswold Stays ONLY

To ensure accuracy
use recommended
Drill Jig ACET934
for ECT022/025

Egress Stays ONLY

To ensure accuracy
use recommended
Drill Jig ACET932
for ECT022/025

VENT WIDTH TO BE REDUCED BY 2mm WHERE
SIZE IS 450mm OR SMALLER

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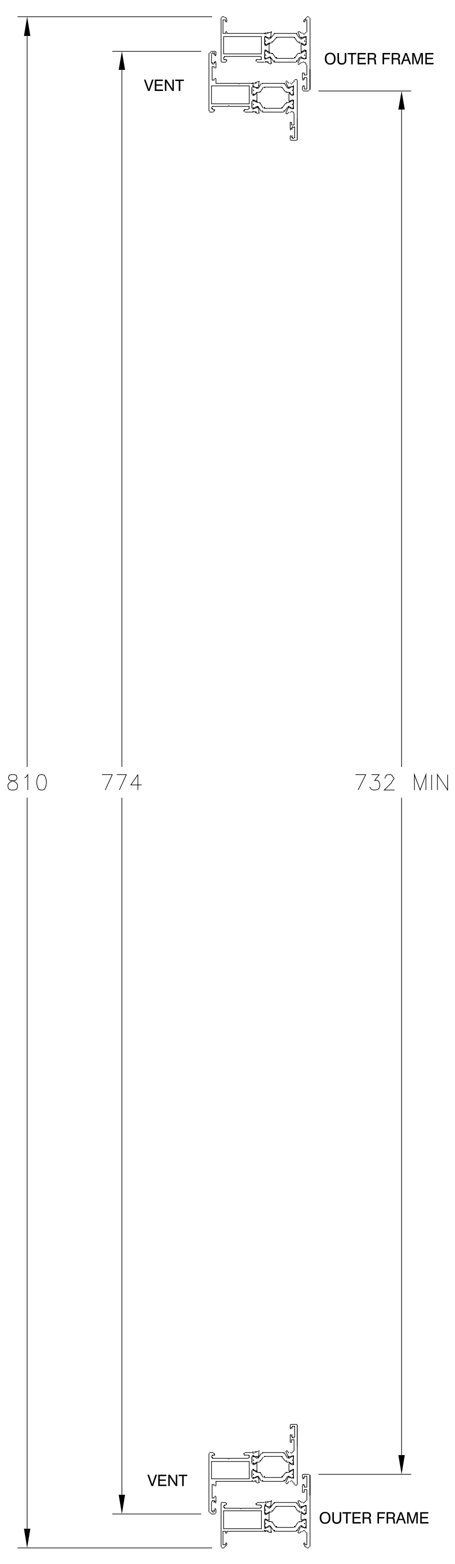
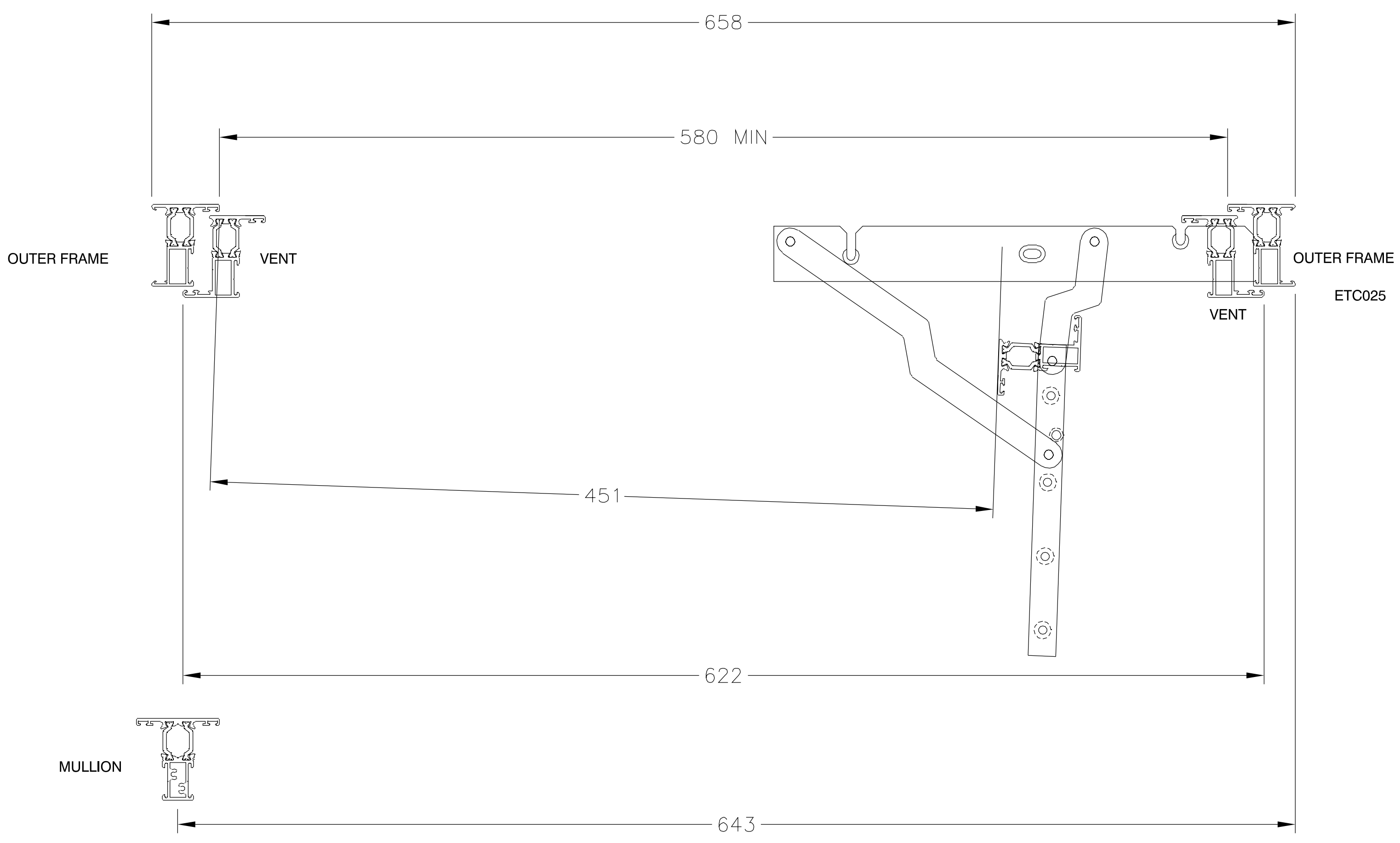
1/2/07 Page 234

3B - TOP HUNG

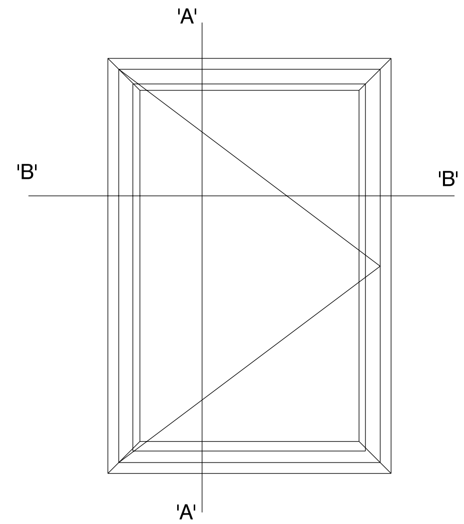


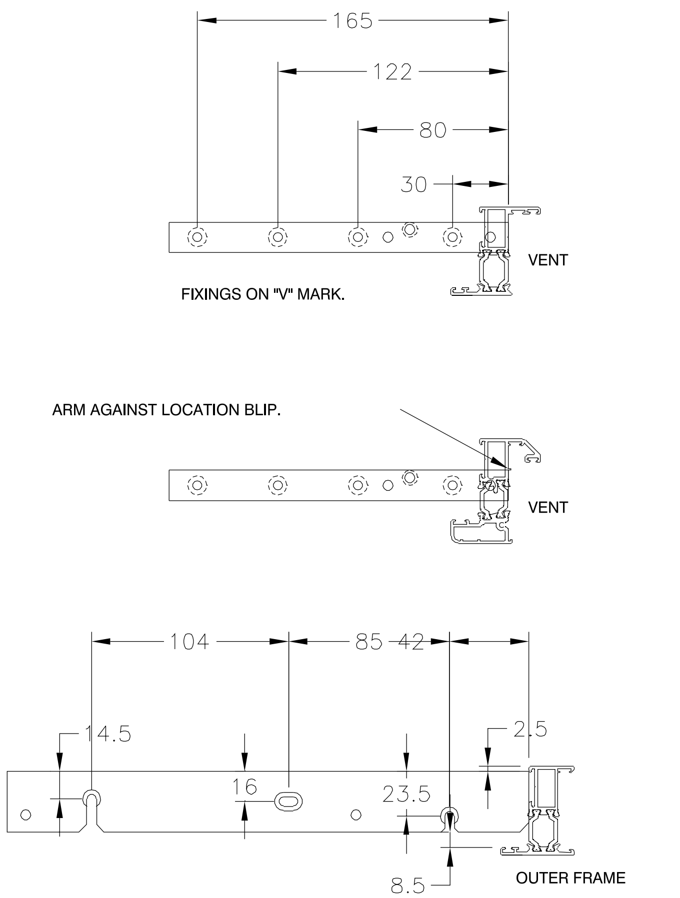
VIEW THROUGH-- A-A

Supplied by Grorud
Part No G9100-Euro Hinge
Phone No 01207 581485
Fax No 01207 580036



VIEW THROUGH-- B-B



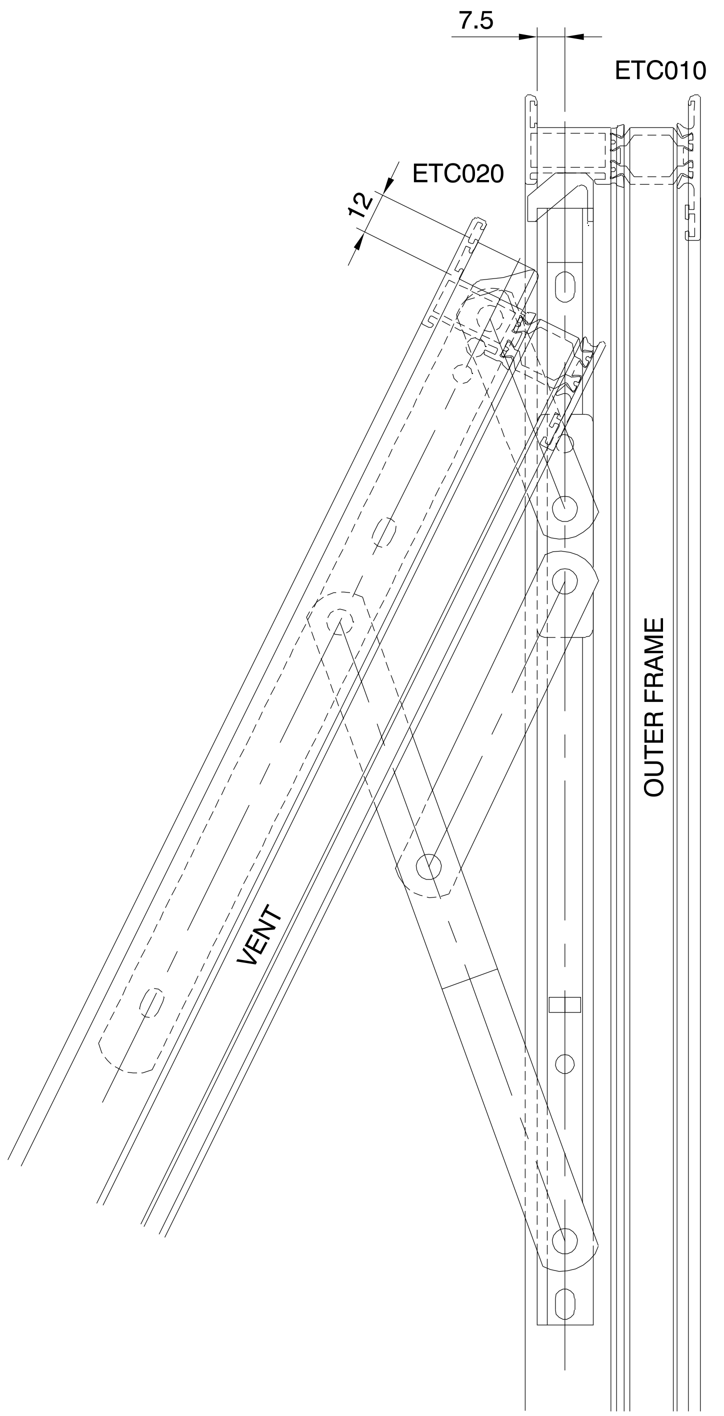


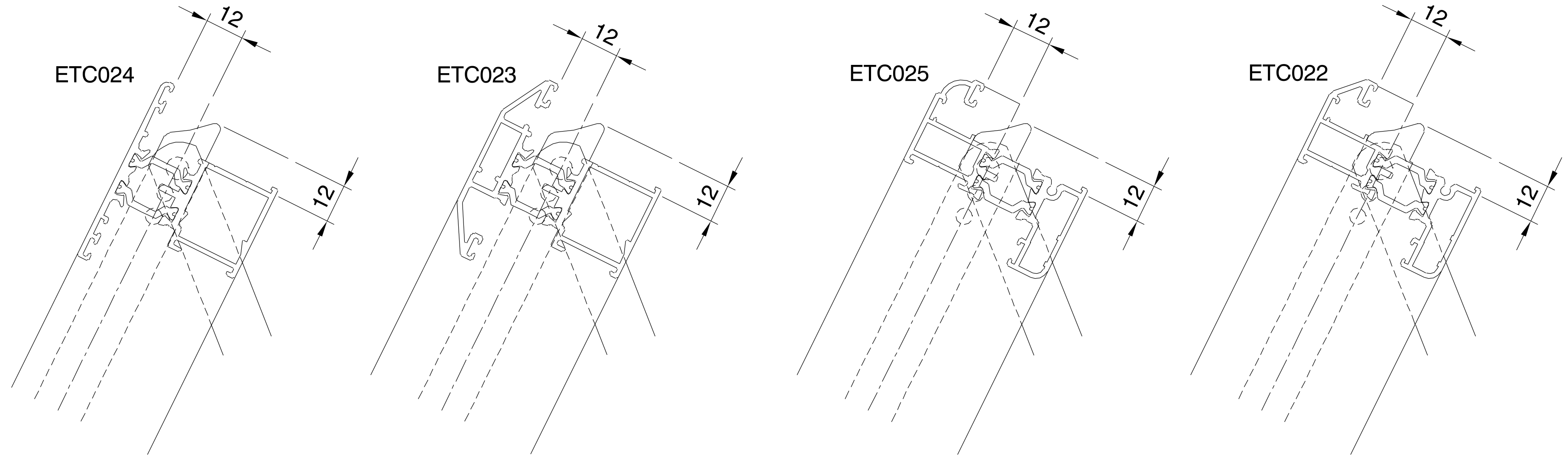
EGRESS HINGE FOR ALITHERM 47 SYSTEM

eETC-47-18-00

3C - TOP HUNG

TO BE READ IN CONJUNCTION WITH ETCb (HINGES)





All others Stays
use ACET915 Jig

To ensure accuracy
use recommended
Drill Jig ACET911
for ECT023/024

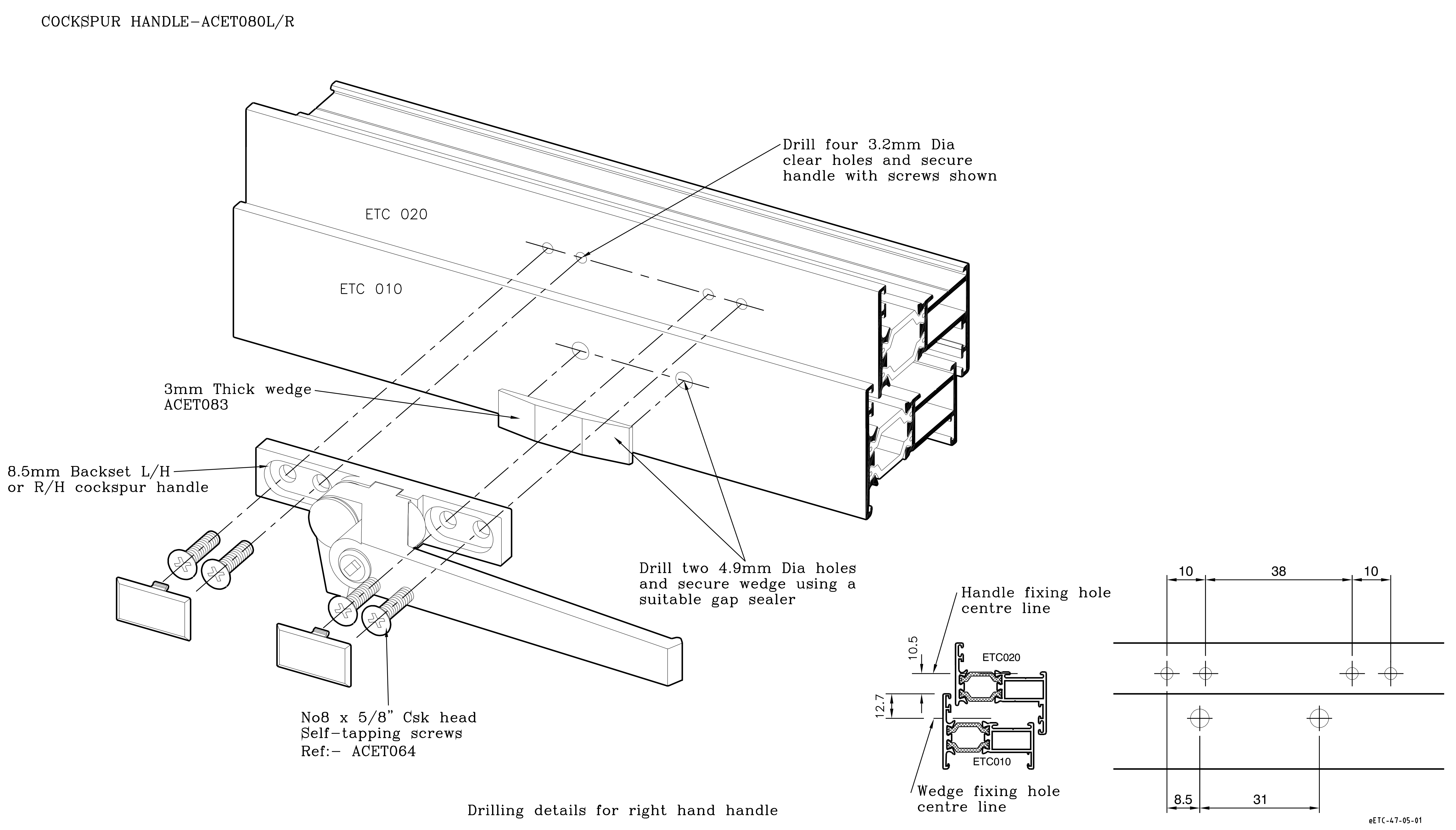
Cotswold Stays ONLY

To ensure accuracy
use recommended
Drill Jig ACET933
for ECT022/025

VENT HEIGHT TO BE REDUCED BY 2mm WHERE
SIZE IS 450mm OR SMALLER

eETC-47-13-02

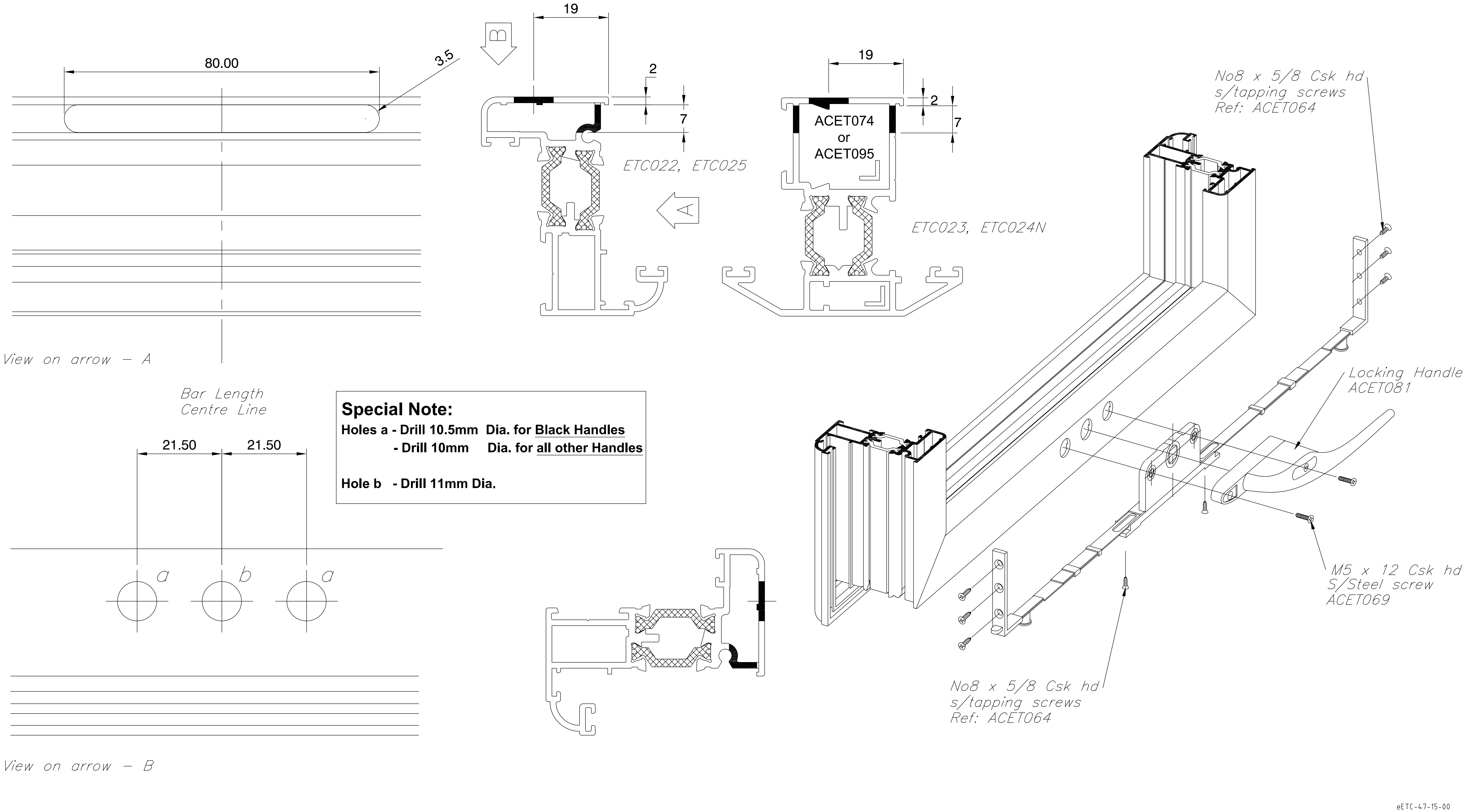
4A - COCKSPUR HANDLE - ACET080L/R



Drilling details for right hand handle

ALITHERM - 47

4B

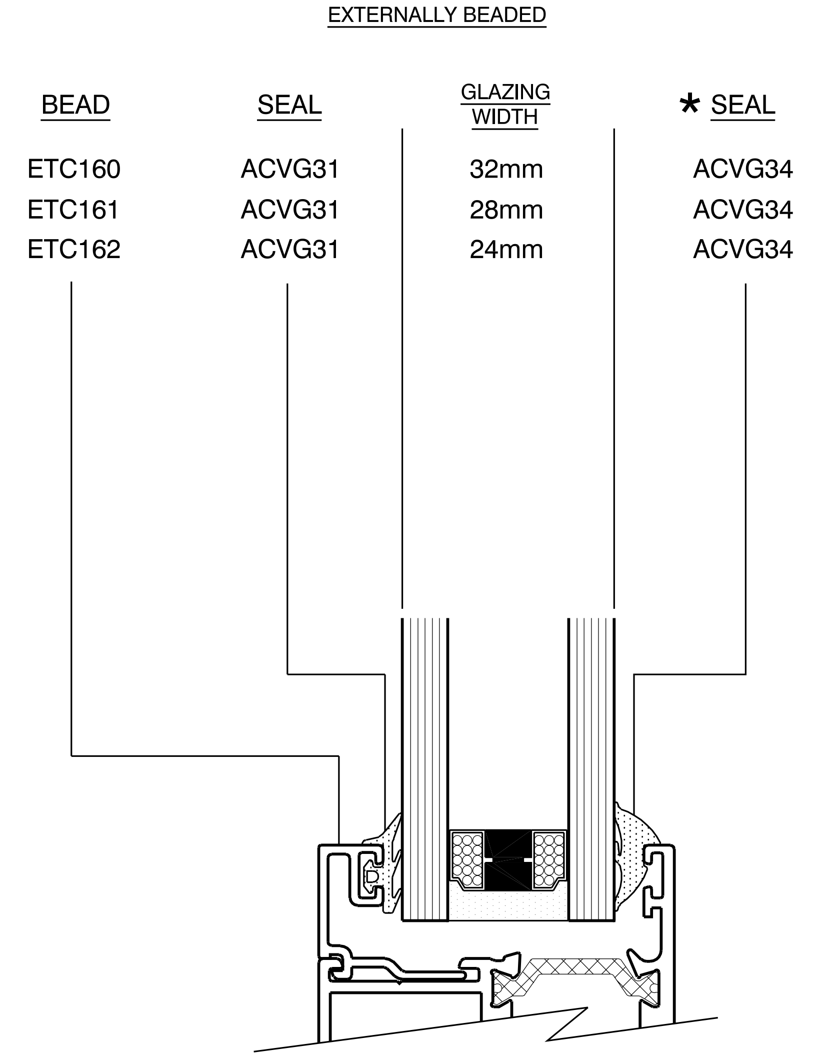


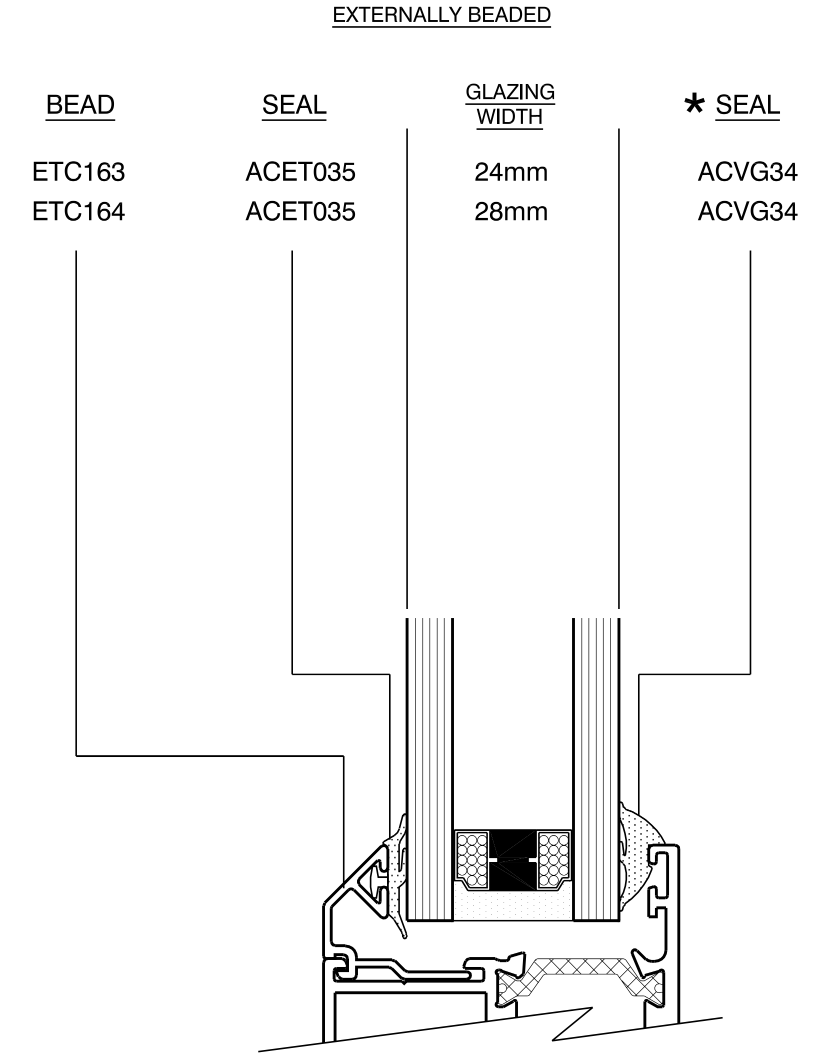
Special Note:

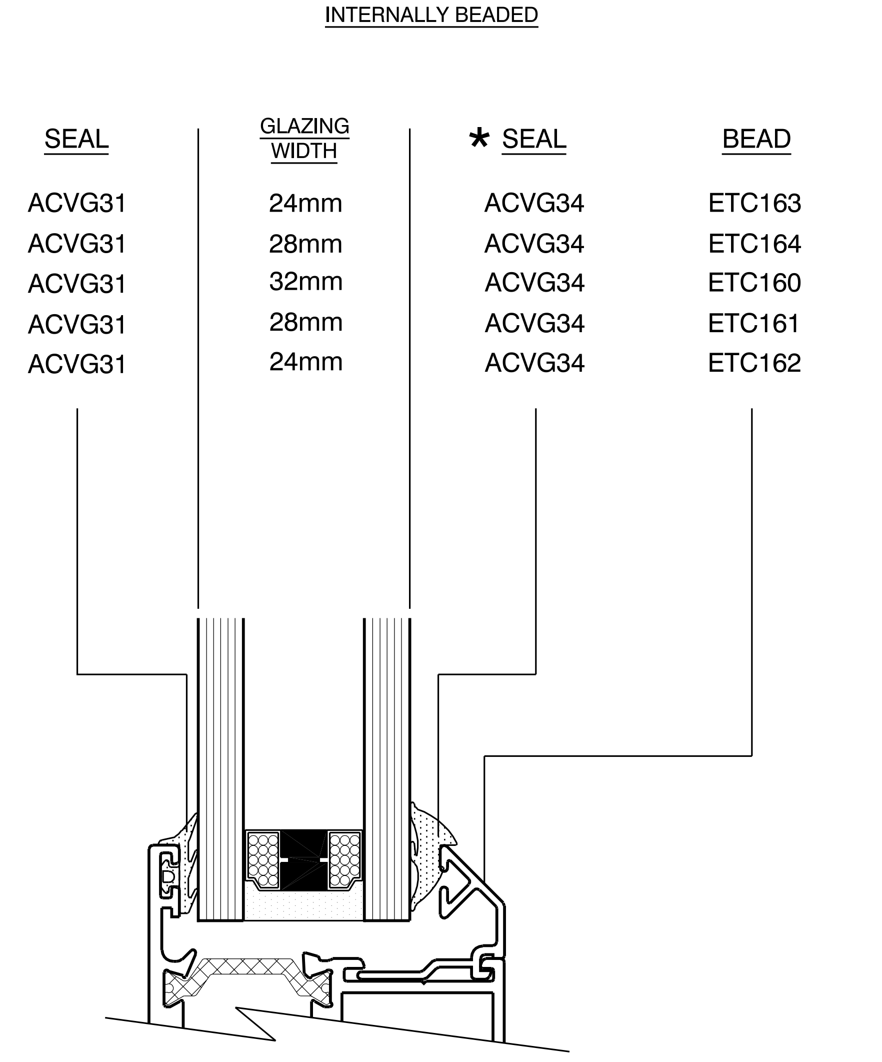
Holes a - Drill 10.5mm Dia. for <u>Black Handles</u>
- Drill 10mm Dia. for <u>all other Handles</u>

Hole b - Drill 11mm Dia.

5A



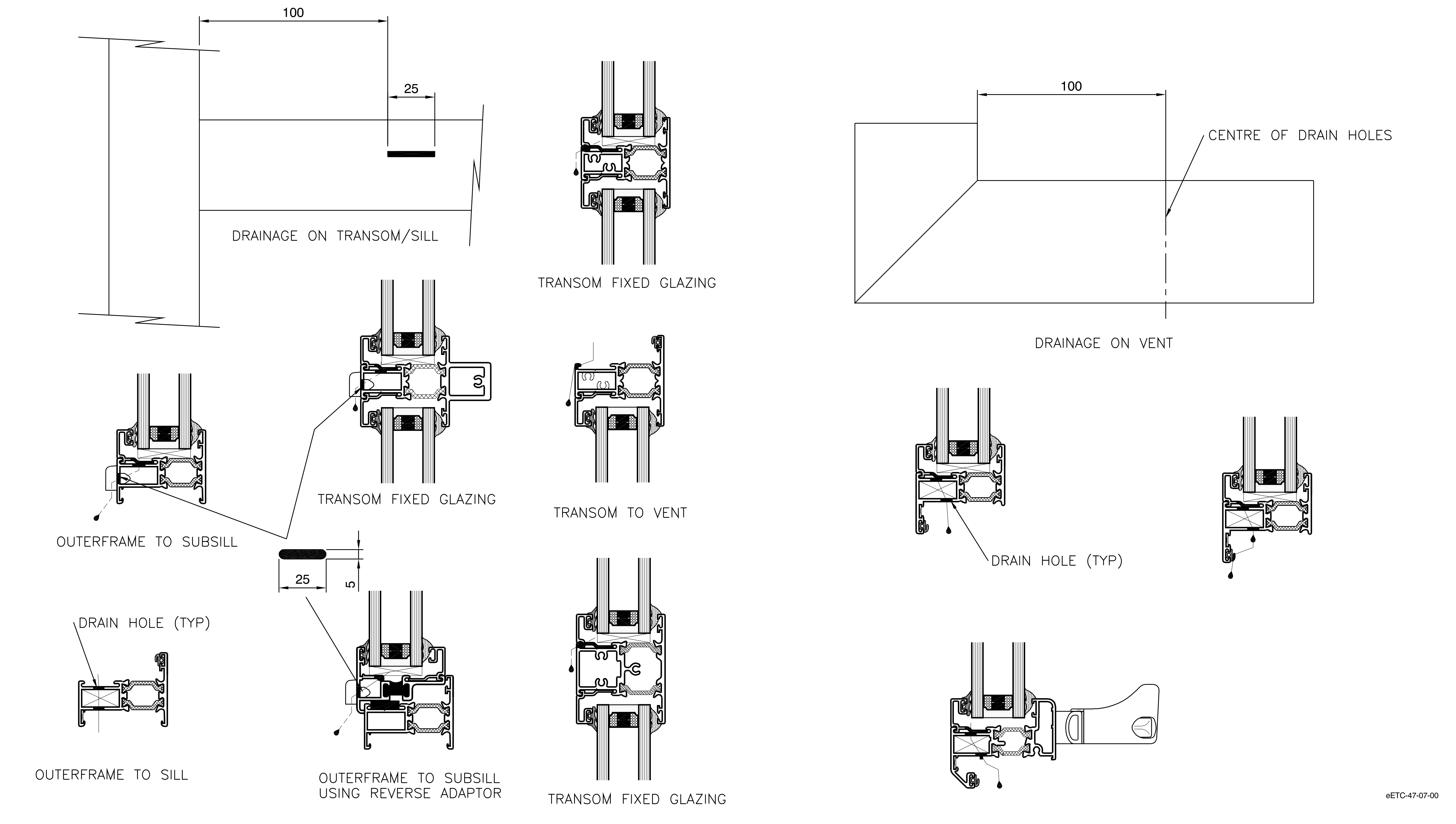




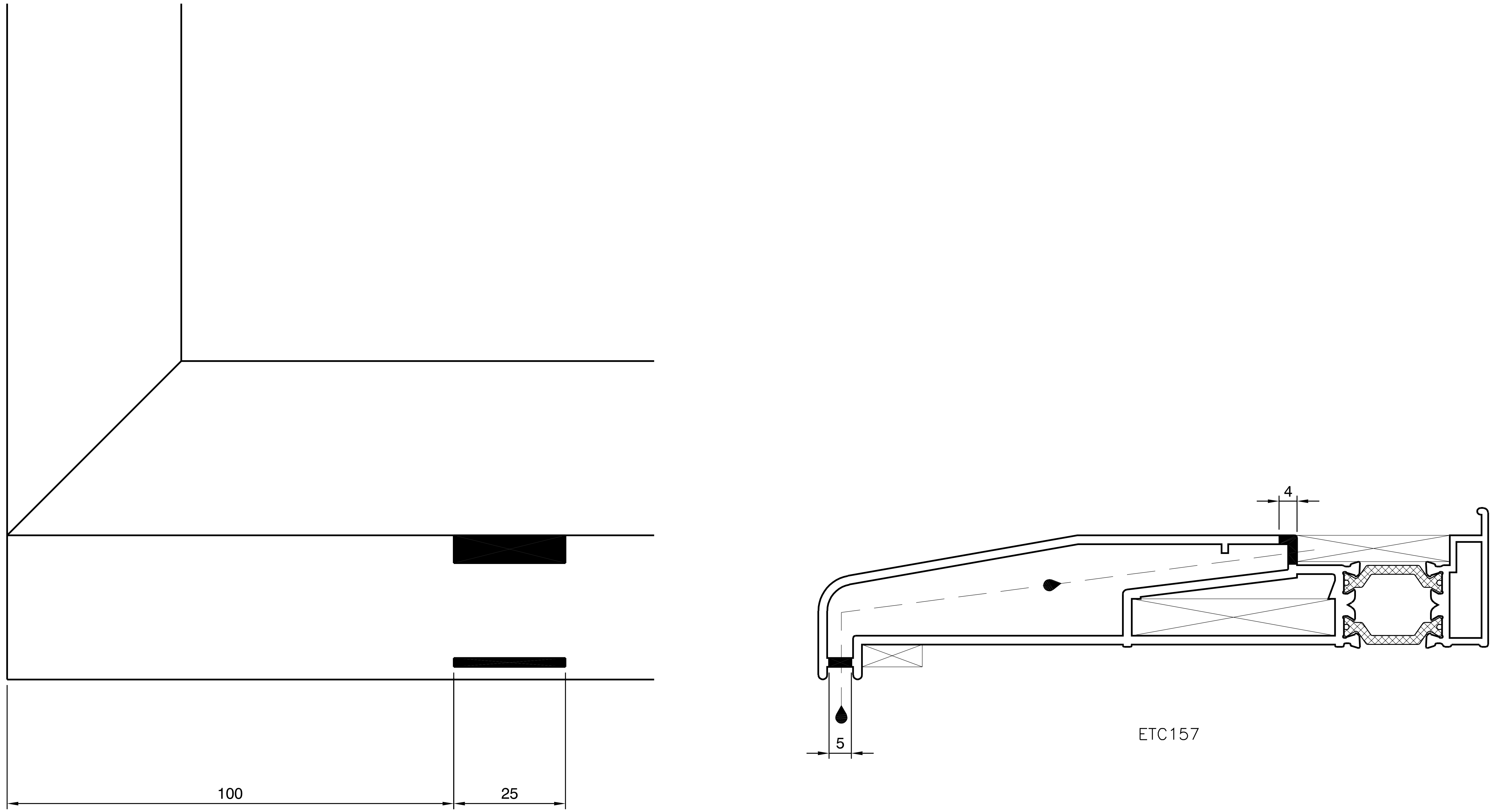
NOTE:-
DUE TO MACHINE TOLERANCES OF PROFILES AND BEADS (MILL/PAINTED FINISH) AND GLAZED UNIT WIDTH.
THE SEAL MARKED * MAY NEED CHANGING TO ACVG33.

eETC-47-06-01

6A


100
25
DRAINAGE ON TRANSOM/SILL
TRANSOM FIXED GLAZING
100
CENTRE OF DRAIN HOLES
DRAINAGE ON VENT
TRANSOM FIXED GLAZING
TRANSOM TO VENT
OUTERFRAME TO SUBSILL
DRAIN HOLE (TYP)
25
5
DRAIN HOLE (TYP)
OUTERFRAME TO SILL
OUTERFRAME TO SUBSILL
USING REVERSE ADAPTOR
TRANSOM FIXED GLAZING
eETC-47-07-00

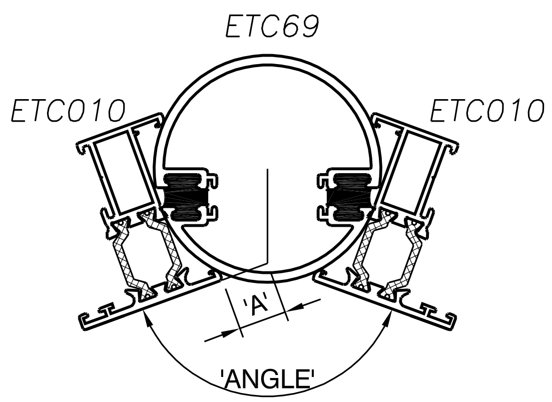
6B



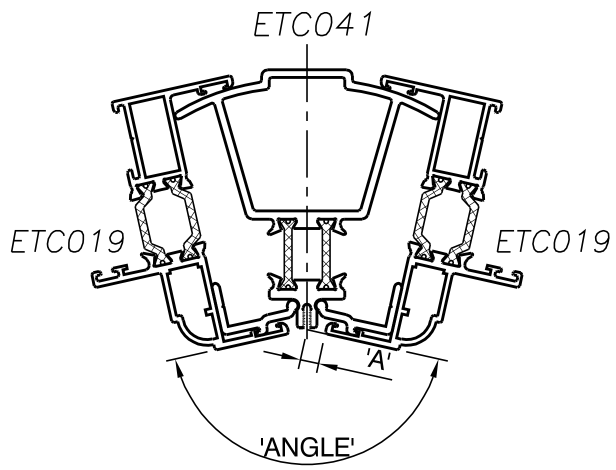
DRAINAGE ON SUBSILL

eETC-47-08-00

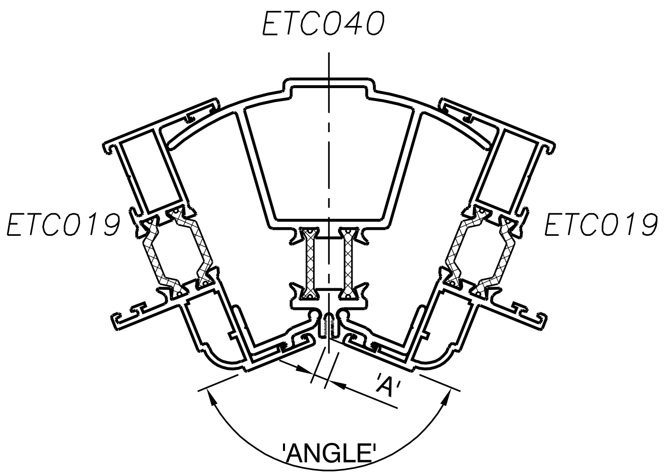
7A



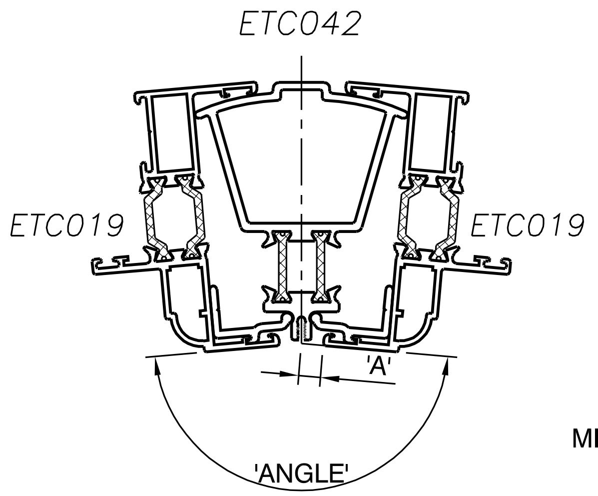
ANGLE	DEDUCTION 'A'
180°	21
175°	20
170°	19.5
165°	18
160°	17
155°	16
150°	15
145°	14
140°	12.5
135°	11.5
130°	10
125°	9
120°	7.5
115°	6
110°	4.5
105°	3
100°	1.5
95°	0



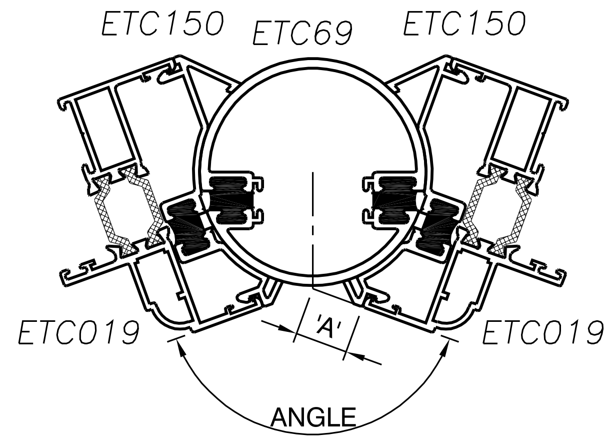
ANGLE	DEDUCTION 'A'
155°	5
153°	5
151°	4.5
149°	4.5
147°	4.5
145°	4.5
143°	4
141°	4
139°	4
137°	4



ANGLE	DEDUCTION 'A'
136°	4
134°	4
132°	3.5
130°	3.5
128°	3.5
126°	3.5
124°	3
122°	3
120°	3



ANGLE	DEDUCTION 'A'
170°	6
168°	6
166°	5.5
164°	5.5
162°	5.5
160°	5
158°	5
156°	5



ANGLE	DEDUCTION 'A'
180°	24.5
175°	23
170°	22
165°	21
160°	19.5
155°	18
150°	17
145°	15.5
140°	14
135°	12.5
130°	11
125°	9
120°	8
115°	6
110°	4

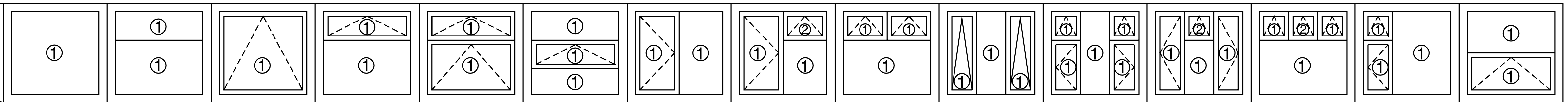
MINIMUM ANGLE IS 109° WITH A DEDUCTION OF 3.83

eETC-47-09-01

SAWING TABLES

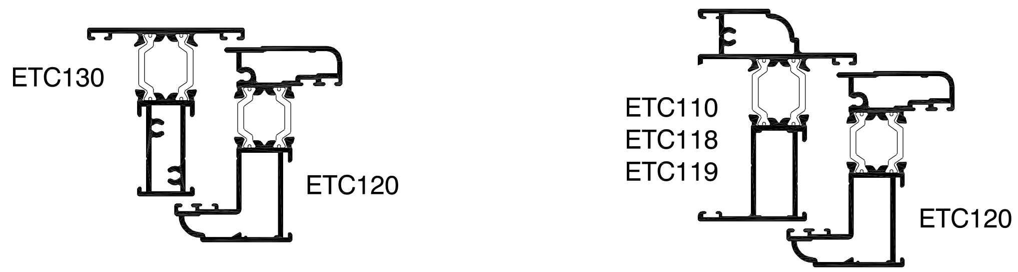
EXTERNALLY BEADED USING OUTER FRAME ETC110, 118 & 119 WITH VENT FRAME ETC120 AND TRANSOM/MULLION ETC130

TYPICAL STYLES / PART DESCRIPTIONS



PART	DESCRIPTIONS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
OUTER FRAME	HEAD & CILL	W	W	W	W		W	W	W	W	W		W	W		W
	JAMBS	H	H	H	H		H	H	H	H	H		H	H		H
	TRANSOM(S)		W — 72		W — 72		W - 72		OF to ℄M — 45.5	W — 72			℄M to ℄M — 19	W — 72		W — 72
	MULLION(S)							H — 72	H — 72	OF to ℄T — 45.5	H — 72		H — 72	OF to ℄T — 45.5		
VENT (1)	HORIZONTAL COMPONENTS			W — 59	W — 59		W — 59	OF to ℄M — 32.5	OF to ℄M — 32.5	OF to ℄M — 32.5	OF to ℄M — 32.5		OF to ℄M — 32.5	OF to ℄M — 32.5		W — 59
	VERTICAL COMPONENTS			H — 59	OF to ℄T — 32.5		℄T to ℄T — 6	H — 59	H — 59	OF to ℄T — 32.5	H — 59		H — 59	OF to ℄T — 32.5		OF to ℄T — 32.5
VENT (2)	HORIZONTAL COMPONENTS								OF to ℄M — 32.5				℄M to ℄M — 6	℄M to ℄M — 6		
	VERTICAL COMPONENTS								OF to ℄T — 32.5				OF to ℄T — 32.5	OF to ℄T — 32.5		
VENT (1)	GLASS WIDTH			W — 147	W — 147		W — 147	OF to ℄M — 120.5	OF to ℄M — 120.5	OF to ℄M — 120.5	OF to ℄M — 120.5		OF to ℄M — 120.5	OF to ℄M — 120.5		W — 147
	GLASS HEIGHT			H — 147	OF to ℄T — 120.5		℄T to ℄T — 94	H — 147	H — 147	OF to ℄T — 120.5	H — 147		H — 147	OF to ℄T — 120.5		OF to ℄T — 120.5
VENT (2)	GLASS WIDTH								OF to ℄M — 120.5				℄M to ℄M — 94	℄M to ℄M — 94		
	GLASS HEIGHT								OF to ℄T — 120.5				OF to ℄T — 120.5	OF to ℄T — 120.5		
FIXED PANEL (1)	GLASS WIDTH	W — 82	W — 82		W — 82		W — 82	OF to ℄M — 55.5	OF to ℄M — 55.5	W — 82	℄M to ℄M — 29		℄M to ℄M — 29	W — 82		W — 82
	GLASS HEIGHT	H — 82	OF to ℄T — 55.5		OF to ℄T — 55.5		OF to ℄T — 55.5	H — 82	OF to ℄T — 55.5	OF to ℄T — 55.5	H — 82		OF to ℄T — 55.5	OF to ℄T — 55.5		OF to ℄T — 55.5
FIXED PANEL (2)	GLASS WIDTH															
	GLASS HEIGHT															

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



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SAWING TABLES

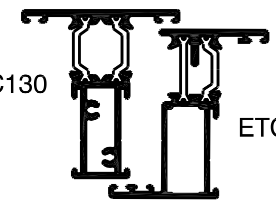
EXTERNALLY BEADED USING OUTER FRAME ETC110, 118, 119 WITH VENT FRAME ETC122 AND TRANSOM45.5MULLION ETC130

PART DESCRIPTIONS	TYPICAL STYLES															
OUTER FRAME	HEAD & CILL	W	W	W	W		W	W	W	W	W		W	W		W
	JAMBS	H	H	H	H		H	H	H	H	H		H	H		H
	TRANSOM(S)		W — 72		W — 72		W - 72		OF to ℄M — 45.5	W — 72			℄M to ℄M — 19	W — 72		W — 72
	MULLION(S)							H — 72	H — 72	OF to ℄T — 45.5	H — 72		H — 72	OF to ℄T — 45.5		
VENT (1)	HORIZONTAL COMPONENTS			W — 59	W — 59		W — 59	OF to ℄M — 32.5	OF to ℄M — 32.5	OF to ℄M — 32.5	OF to ℄M — 32.5		OF to ℄M — 32.5	OF to ℄M — 32.5		W — 59
	VERTICAL COMPONENTS			H — 59	OF to ℄T — 32.5		℄T to ℄T — 6	H — 59	H — 59	OF to ℄T — 32.5	H — 59		H — 59	OF to ℄T — 32.5		OF to ℄T — 32.5
VENT (2)	HORIZONTAL COMPONENTS								OF to ℄M — 32.5				℄M to ℄M — 6	℄M to ℄M — 6		
	VERTICAL COMPONENTS								OF to ℄T — 32.5				OF to ℄T — 32.5	OF to ℄T — 32.5		
VENT (1)	GLASS WIDTH			W — 141	W — 141		W — 141	OF to ℄M — 114.5	OF to ℄M — 114.5	OF to ℄M — 114.5	OF to ℄M — 114.5		OF to ℄M — 114.5	OF to ℄M — 114.5		W — 141
	GLASS HEIGHT			H — 141	OF to ℄T — 114.5		℄T to ℄T — 88	H — 141	H — 141	OF to ℄T — 114.5	H — 141		H — 141	OF to ℄T — 114.5		OF to ℄T — 114.5
VENT (2)	GLASS WIDTH								OF to ℄M — 114.5				℄M to ℄M — 88	℄M to ℄M — 88		
	GLASS HEIGHT								OF to ℄T — 114.5				OF to ℄T — 114.5	OF to ℄T — 114.5		
FIXED PANEL (1)	GLASS WIDTH	W — 82	W — 82		W — 82		W — 82	OF to ℄M — 55.5	OF to ℄M — 55.5	W — 82	℄M to ℄M — 29		℄M to ℄M — 29	W — 82		W — 82
	GLASS HEIGHT	H — 82	OF to ℄T — 55.5		OF to ℄T — 55.5		OF to ℄T — 55.5	H — 82	OF to ℄T — 55.5	OF to ℄T — 55.5	H — 82		OF to ℄T — 55.5	OF to ℄T — 55.5		OF to ℄T — 55.5
FIXED PANEL (2)	GLASS WIDTH															
	GLASS HEIGHT															

LEGEND:

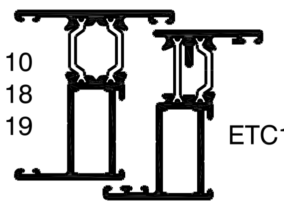
- W = Overall window outer frame width - outside
- H = Overall window outer frame height - outside
- ℄ = Centre line of transom/mullion
- O/F = Extreme edge of outer frame

ETC130



ETC122

ETC110
ETC118
ETC119

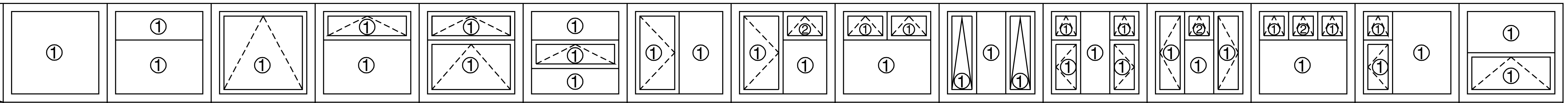


ETC122

fETC-55-03-00

SAWING TABLES

EXTERNALLY BEADED USING OUTER FRAME ETC110, 118 & 119 WITH VENT FRAME ETC122 AND TRANSOM/MULLION ETC131

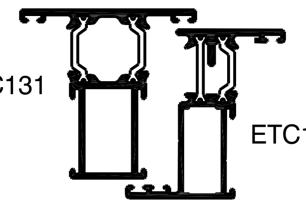


PART DESCRIPTIONS	TYPICAL STYLES	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
OUTER FRAME	HEAD & CILL	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
	JAMBS	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
	TRANSOM(S)		W — 72		W — 72	W — 72	W - 72		OF to ℄M — 48.5	W — 72		OF to ℄M — 48.5	℄M to ℄M — 25	W — 72	OF to ℄M — 48.5	W — 72
	MULLION(S)							H — 72	H — 72	OF to ℄T — 48.5	H — 72	H — 72	H — 72	OF to ℄T — 48.5	H — 72	
VENT (1)	HORIZONTAL COMPONENTS			W — 59	W — 59	W — 59	W — 59	OF to ℄M — 35.5	OF to ℄M — 35.5	OF to ℄M — 35.5	OF to ℄M — 35.5	OF to ℄M — 35.5	OF to ℄M — 35.5	OF to ℄M — 35.5	OF to ℄M — 35.5	W — 59
	VERTICAL COMPONENTS			H — 59	OF to ℄T — 35.5	OF to ℄T — 35.5	℄T to ℄T — 12	H — 59	H — 59	OF to ℄T — 35.5	H — 59	OF to ℄T — 35.5	H — 59	OF to ℄T — 35.5	OF to ℄T — 35.5	OF to ℄T — 35.5
VENT (2)	HORIZONTAL COMPONENTS					W — 59			OF to ℄M — 35.5				℄M to ℄M — 12	℄M to ℄M — 12		
	VERTICAL COMPONENTS					OF to ℄T — 35.5			OF to ℄T — 35.5				OF to ℄T — 35.5	OF to ℄T — 35.5		
VENT (1)	GLASS WIDTH			W — 141	W — 141	W — 141	W — 141	OF to ℄M — 117.5	OF to ℄M — 117.5	OF to ℄M — 117.5	OF to ℄M — 117.5	OF to ℄M — 117.5	OF to ℄M — 117.5	OF to ℄M — 117.5	OF to ℄M — 117.5	W — 141
	GLASS HEIGHT			H — 141	OF to ℄T — 117.5	OF to ℄T — 117.5	℄T to ℄T — 94	H — 141	H — 141	OF to ℄T — 117.5	H — 141	OF to ℄T — 117.5	H — 141	OF to ℄T — 117.5	OF to ℄T — 117.5	OF to ℄T — 117.5
VENT (2)	GLASS WIDTH								OF to ℄M — 117.5				℄M to ℄M — 94	℄M to ℄M — 94		
	GLASS HEIGHT								OF to ℄T — 117.5				OF to ℄T — 117.5	OF to ℄T — 117.5		
FIXED PANEL (1)	GLASS WIDTH	W — 82	W — 82		W — 82		W — 82	OF to ℄M — 58.5	OF to ℄M — 58.5	W — 82	℄M to ℄M — 35	℄M to ℄M — 35	℄M to ℄M — 35	W — 82	OF to ℄M — 58.5	W — 82
	GLASS HEIGHT	H — 82	OF to ℄T — 58.5		OF to ℄T — 58.5		OF to ℄T — 58.5	H — 82	OF to ℄T — 58.5	OF to ℄T — 58.5	H — 82	H — 82	OF to ℄T — 58.5	OF to ℄T — 58.5	H — 82	OF to ℄T — 58.5
FIXED PANEL (2)	GLASS WIDTH															
	GLASS HEIGHT															

LEGEND:

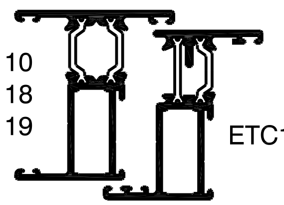
W = Overall window outer frame width - outside
H = Overall window outer frame height - outside
℄ = Centre line of transom/mullion
O/F = Extreme edge of outer frame

ETC131



ETC122

ETC110
ETC118
ETC119



ETC122

fETC-55-04-00

SAWING TABLES

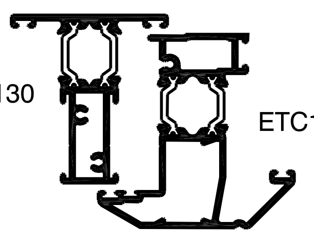
EXTERNALLY BEADED FIXED FRAME AND INTERNALLY BEADED VENT FRAME USING OUTER FRAME ETC110, 118, 119 WITH VENT FRAME ETC121 AND TRANSOM/MULLION ETC130

PART DESCRIPTIONS / TYPICAL STYLES																
OUTER FRAME	HEAD & CILL	W	W	W	W		W	W	W	W	W		W	W		W
	JAMBS	H	H	H	H		H	H	H	H	H		H	H		H
	TRANSOM(S)		W — 72		W — 72		W - 72		OF to ℄M — 45.5	W — 72			℄M to ℄M — 19	W — 72		W — 72
	MULLION(S)							H — 72	H — 72	OF to ℄T — 45.5	H — 72		H — 72	OF to ℄T — 45.5		
VENT (1)	HORIZONTAL COMPONENTS			W — 59	W — 59		W — 59	OF to ℄M — 32.5	OF to ℄M — 32.5	OF to ℄M — 32.5	OF to ℄M — 32.5		OF to ℄M — 32.5	OF to ℄M — 32.5		W — 59
	VERTICAL COMPONENTS			H — 59	OF to ℄T — 32.5		℄T to ℄T — 6	H — 59	H — 59	OF to ℄T — 32.5	H — 59		H — 59	OF to ℄T — 32.5		OF to ℄T — 32.5
VENT (2)	HORIZONTAL COMPONENTS								OF to ℄M — 32.5				℄M to ℄M — 6	℄M to ℄M — 6		
	VERTICAL COMPONENTS								OF to ℄T — 32.5				OF to ℄T — 32.5	OF to ℄T — 32.5		
VENT (1)	GLASS WIDTH			W — 166	W — 166		W — 166	OF to ℄M — 139.5	OF to ℄M — 139.5	OF to ℄M — 139.5	OF to ℄M — 139.5		OF to ℄M — 139.5	OF to ℄M — 139.5		W — 166
	GLASS HEIGHT			H — 166	OF to ℄T — 139.5		℄T to ℄T — 113	H — 166	H — 166	OF to ℄T — 139.5	H — 166		H — 166	OF to ℄T — 139.5		OF to ℄T — 139.5
VENT (2)	GLASS WIDTH								OF to ℄M — 139.5				℄M to ℄M — 113	℄M to ℄M — 113		
	GLASS HEIGHT								OF to ℄T — 139.5				OF to ℄T — 139.5	OF to ℄T — 139.5		
FIXED PANEL (1)	GLASS WIDTH	W — 82	W — 82		W — 82		W — 82	OF to ℄M — 55.5	OF to ℄M — 55.5	W — 82	℄M to ℄M — 29		℄M to ℄M — 29	W — 82		W — 82
	GLASS HEIGHT	H — 82	OF to ℄T — 55.5		OF to ℄T — 55.5		OF to ℄T — 55.5	H — 82	OF to ℄T — 55.5	OF to ℄T — 55.5	H — 82		OF to ℄T — 55.5	OF to ℄T — 55.5		OF to ℄T — 55.5
FIXED PANEL (2)	GLASS WIDTH															
	GLASS HEIGHT															

LEGEND:

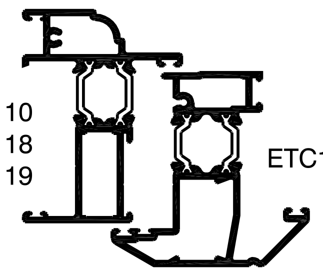
- W = Overall window outer frame width - outside
- H = Overall window outer frame height - outside
- ℄ = Centre line of transom/mullion
- O/F = Extreme edge of outer frame

ETC130



ETC121

ETC110
ETC118
ETC119

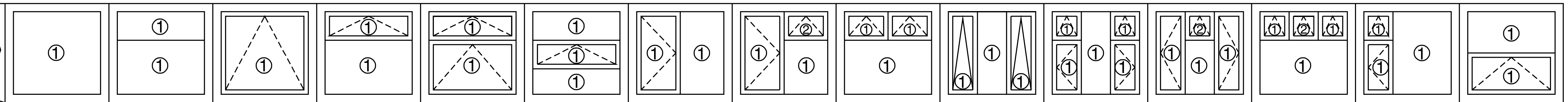


ETC121

fETC-55-05-00

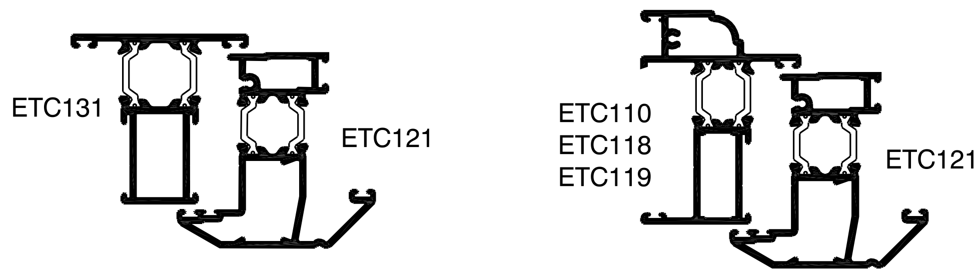
SAWING TABLES

EXTERNALLY BEADED FIXED FRAME AND INTERNALLY BEADED VENT FRAME USING OUTER FRAME ETC110, 118 & 119 WITH VENT FRAME ETC121 AND TRANSOM/MULLION ETC131



PART DESCRIPTIONS	TYPICAL STYLES															
OUTER FRAME	HEAD & CILL	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
	JAMBS	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
	TRANSOM(S)		W — 72		W — 72	W — 72	W - 72		OF to ℄M — 48.5	W — 72		OF to ℄M — 48.5	℄M to ℄M — 25	W — 72	OF to ℄M — 48.5	W — 72
	MULLION(S)							H — 72	H — 72	OF to ℄T — 48.5	H — 72	H — 72	H — 72	OF to ℄T — 48.5	H — 72	
VENT (1)	HORIZONTAL COMPONENTS			W — 59	W — 59	W — 59	W — 59	OF to ℄M — 35.5	OF to ℄M — 35.5	OF to ℄M — 35.5	OF to ℄M — 35.5	OF to ℄M — 35.5	OF to ℄M — 35.5	OF to ℄M — 35.5	OF to ℄M — 35.5	W — 59
	VERTICAL COMPONENTS			H — 59	OF to ℄T — 35.5	OF to ℄T — 35.5	℄T to ℄T — 12	H — 59	H — 59	OF to ℄T — 35.5	H — 59	OF to ℄T — 35.5	H — 59	OF to ℄T — 35.5	OF to ℄T — 35.5	OF to ℄T — 35.5
VENT (2)	HORIZONTAL COMPONENTS					W — 59			OF to ℄M — 35.5				℄M to ℄M — 12	℄M to ℄M — 12		
	VERTICAL COMPONENTS					OF to ℄T — 35.5			OF to ℄T — 35.5				OF to ℄T — 35.5	OF to ℄T — 35.5		
VENT (1)	GLASS WIDTH			W — 166	W — 166	W — 166	W — 166	OF to ℄M — 142.5	OF to ℄M — 142.5	OF to ℄M — 142.5	OF to ℄M — 142.5	OF to ℄M — 142.5	OF to ℄M — 142.5	OF to ℄M — 142.5	OF to ℄M — 142.5	W — 166
	GLASS HEIGHT			H — 166	OF to ℄T — 142.5	OF to ℄T — 142.5	℄T to ℄T — 119	H — 166	H — 166	OF to ℄T — 142.5	H — 166	OF to ℄T — 142.5	H — 166	OF to ℄T — 142.5	OF to ℄T — 142.5	OF to ℄T — 142.5
VENT (2)	GLASS WIDTH								OF to ℄M — 142.5				℄M to ℄M — 119	℄M to ℄M — 119		
	GLASS HEIGHT								OF to ℄T — 142.5				OF to ℄T — 142.5	OF to ℄T — 142.5		
FIXED PANEL (1)	GLASS WIDTH	W — 82	W — 82		W — 82		W — 82	OF to ℄M — 58.5	OF to ℄M — 58.5	W — 82	℄M to ℄M — 35	℄M to ℄M — 35	℄M to ℄M — 35	W — 82	OF to ℄M — 58.5	W — 82
	GLASS HEIGHT	H — 82	OF to ℄T — 58.5		OF to ℄T — 58.5		OF to ℄T — 58.5	H — 82	OF to ℄T — 58.5	OF to ℄T — 58.5	H — 82	H — 82	OF to ℄T — 58.5	OF to ℄T — 58.5	H — 82	OF to ℄T — 58.5
FIXED PANEL (2)	GLASS WIDTH															
	GLASS HEIGHT															

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



fETC-55-06-00

ALITHERM - 55

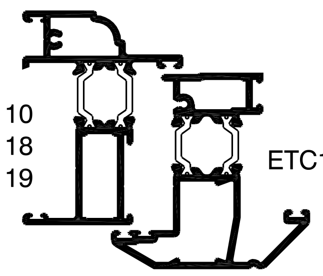
SAWING TABLES

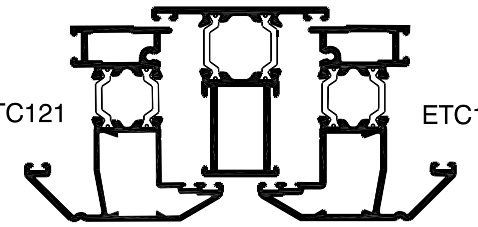
INTERNALLY BEADED USING OUTER FRAME ETC110, 118 & 119 WITH VENT AND FALSE VENT FRAME ETC121 AND TRANSOM/MULLION ETC131

PART DESCRIPTIONS	TYPICAL STYLES	①	① / ①	① / ② / ①	① ①	① ② / ②	② ② / ①	① ② ①	② ① ② / ② ②	① ② ① / ①	① ② ① / ①
OUTER FRAME	HEAD & CILL	W	W	W	W	W	W	W	W	W	W
	JAMBS	H	H	H	H	H	H	H	H	H	H
	TRANSOM(S)		W — 72	W - 72		OF to ℄M — 48.5	W — 72		OF to ℄M — 48.5	℄M to ℄M — 25	W — 72
	MULLION(S)				H — 72	H — 72	OF to ℄M — 48.5	H — 72	H — 72	H — 72	OF to ℄M — 48.5
VENT (1)	HORIZONTAL COMPONENTS	W — 59	W — 59	W — 59	OF to ℄M — 35.5	OF to ℄M — 35.5	W — 59	OF to ℄M — 35.5	℄M to ℄M — 12	℄M to ℄M — 12	W — 59
	VERTICAL COMPONENTS	H — 59	OF to ℄T — 35.5	OF to ℄T — 35.5	H — 59	H — 59	OF to ℄T — 35.5	H — 59	H — 59	OF to ℄T — 35.5	OF to ℄T — 35.5
VENT (2)	HORIZONTAL COMPONENTS			W — 59		OF to ℄M — 35.5	OF to ℄M — 35.5	℄M to ℄M — 12	OF to ℄M — 35.5	OF to ℄M — 35.5	OF to ℄M — 35.5
	VERTICAL COMPONENTS			℄T to ℄T — 12		OF to ℄T — 35.5	OF to ℄T — 35.5	H — 59	OF to ℄T — 35.5	H — 59	OF to ℄T — 35.5
VENT (3)	HORIZONTAL COMPONENTS										℄M to ℄M — 12
	VERTICAL COMPONENTS										OF to ℄T — 35.5
VENT (1)	GLASS WIDTH	W — 166	W — 166	W — 166	OF to ℄M — 142.5	OF to ℄M — 142.5	W — 166	OF to ℄M — 142.5	℄M to ℄M — 119	℄M to ℄M — 119	W — 166
	GLASS HEIGHT	H — 166	OF to ℄T — 142.5	OF to ℄T — 142.5	H — 166	H — 166	OF to ℄T — 142.5	H — 166	H — 166	OF to ℄T — 142.5	OF to ℄T — 142.5
VENT (2)	GLASS WIDTH			W — 166		OF to ℄M — 142.5	OF to ℄M — 142.5	℄M to ℄M — 119	OF to ℄M — 142.5	OF to ℄M — 142.5	OF to ℄M — 142.5
	GLASS HEIGHT			℄T to ℄T — 119		OF to ℄T — 142.5	OF to ℄T — 142.5	H — 166	OF to ℄T — 142.5	H — 166	OF to ℄T — 142.5
VENT (3)	GLASS WIDTH										℄M to ℄M — 119
	GLASS HEIGHT										OF to ℄T — 142.5

LEGEND:

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





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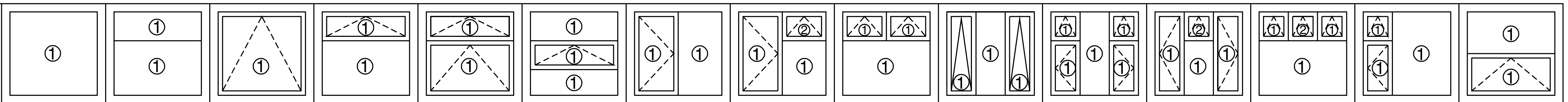
SAWING TABLES

EXTERNALLY BEADED WINDOWS USING ETC112 WITH VENT ETC120 AND TRANSOM ETC130

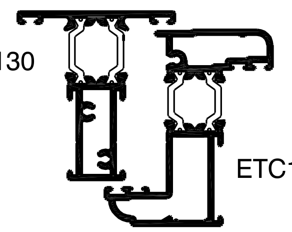
PART DESCRIPTIONS / TYPICAL STYLES

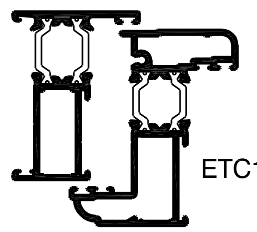


PART DESCRIPTIONS		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
OUTER FRAME	HEAD & CILL	W	W	W	W		W	W	W	W	W		W	W		W
	JAMBS	H	H	H	H		H	H	H	H	H		H	H		H
	TRANSOM(S)		W — 51		W — 51		W - 51		OF to ℄M — 35	W — 51			℄M to ℄M — 19	W — 51		W — 51
	MULLION(S)							H — 51	H — 51	OF to ℄T — 35	H — 51		H — 51	OF to ℄T — 35		
VENT (1)	HORIZONTAL COMPONENTS			W — 38	W — 38		W — 38	OF to ℄M — 22	OF to ℄M — 22	OF to ℄M — 22	OF to ℄M — 22		OF to ℄M — 22	OF to ℄M — 22		W — 38
	VERTICAL COMPONENTS			H — 38	OF to ℄T — 22		℄T to ℄T — 6	H — 38	H — 38	OF to ℄T — 22	H — 38		H — 38	OF to ℄T — 22		OF to ℄T — 22
VENT (2)	HORIZONTAL COMPONENTS								OF to ℄M — 22				℄M to ℄M — 6	℄M to ℄M — 6		
	VERTICAL COMPONENTS								OF to ℄T — 22				OF to ℄T — 22	OF to ℄T — 22		
VENT (1)	GLASS WIDTH			W — 126	W — 126		W — 126	OF to ℄M — 110	OF to ℄M — 110	OF to ℄M — 110	OF to ℄M — 110		OF to ℄M — 110	OF to ℄M — 110		W — 126
	GLASS HEIGHT			H — 126	OF to ℄T — 110		℄T to ℄T — 94	H — 126	H — 126	OF to ℄T — 110	H — 126		H — 126	OF to ℄T — 110		OF to ℄T — 110
VENT (2)	GLASS WIDTH								OF to ℄M — 110				℄M to ℄M — 94	℄M to ℄M — 94		
	GLASS HEIGHT								OF to ℄T — 110				OF to ℄T — 110	OF to ℄T — 110		
FIXED PANEL (1)	GLASS WIDTH	W — 61	W — 61		W — 61		W — 61	OF to ℄M — 45	OF to ℄M — 45	W — 61	℄M to ℄M — 29		℄M to ℄M — 29	W — 61		W — 61
	GLASS HEIGHT	H — 61	OF to ℄T — 45		OF to ℄T — 45		OF to ℄T — 45	H — 61	OF to ℄T — 45	OF to ℄T — 45	H — 61		OF to ℄T — 45	OF to ℄T — 45		OF to ℄T — 45
FIXED PANEL (2)	GLASS WIDTH															
	GLASS HEIGHT															

LEGEND:

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





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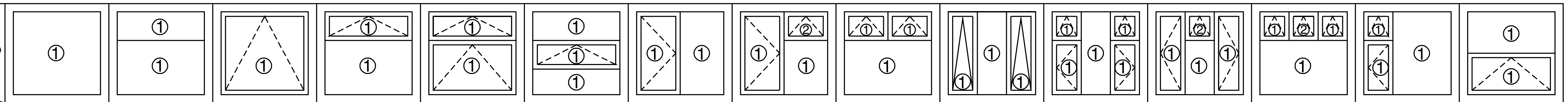
SAWING TABLES

EXTERNALLY BEADED WINDOWS USING ETC112 WITH VENT ETC120 AND TRANSOM ETC131



PART DESCRIPTIONS	TYPICAL STYLES															
OUTER FRAME	HEAD & CILL	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
	JAMBS	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
	TRANSOM(S)		W — 51		W — 51	W — 51	W - 51		OF to ℄M — 38	W — 51		OF to ℄M — 38	℄M to ℄M — 25	W — 51	OF to ℄M — 38	W — 51
	MULLION(S)							H — 51	H — 51	OF to ℄T — 38	H — 51	H — 51	H — 51	OF to ℄T — 38	H — 51	
VENT (1)	HORIZONTAL COMPONENTS			W — 38	W — 38	W — 38	W — 38	OF to ℄M — 25	OF to ℄M — 25	OF to ℄M — 25	OF to ℄M — 25	OF to ℄M — 25	OF to ℄M — 25	OF to ℄M — 25	OF to ℄M — 25	W — 38
	VERTICAL COMPONENTS			H — 38	OF to ℄T — 25	OF to ℄T — 25	℄T to ℄T — 12	H — 38	H — 38	OF to ℄T — 25	H — 38	OF to ℄T — 25	H — 38	OF to ℄T — 25	OF to ℄T — 25	OF to ℄T — 25
VENT (2)	HORIZONTAL COMPONENTS					W — 38			OF to ℄M — 25				℄M to ℄M — 12	℄M to ℄M — 12		
	VERTICAL COMPONENTS					OF to ℄T — 25			OF to ℄T — 25				OF to ℄T — 25	OF to ℄T — 25		
VENT (1)	GLASS WIDTH			W — 126	W — 126	W — 126	W — 126	OF to ℄M — 113	OF to ℄M — 113	OF to ℄M — 113	OF to ℄M — 113	OF to ℄M — 113	OF to ℄M — 113	OF to ℄M — 113	OF to ℄M — 113	W — 126
	GLASS HEIGHT			H — 126	OF to ℄T — 113	OF to ℄T — 113	℄T to ℄T — 100	H — 126	H — 126	OF to ℄T — 113	H — 126	OF to ℄T — 113	H — 126	OF to ℄T — 113	OF to ℄T — 113	OF to ℄T — 113
VENT (2)	GLASS WIDTH								OF to ℄M — 113				℄M to ℄M — 100	℄M to ℄M — 100		
	GLASS HEIGHT								OF to ℄T — 113				OF to ℄T — 113	OF to ℄T — 113		
FIXED PANEL (1)	GLASS WIDTH	W — 61	W — 61		W — 61		W — 61	OF to ℄M — 48	OF to ℄M — 48	W — 61	℄M to ℄M — 35	℄M to ℄M — 35	℄M to ℄M — 35	W — 61	OF to ℄M — 48	W — 61
	GLASS HEIGHT	H — 61	OF to ℄T — 48		OF to ℄T — 48		OF to ℄T — 48	H — 61	OF to ℄T — 48	OF to ℄T — 48	H — 61	H — 61	OF to ℄T — 48	OF to ℄T — 48	H — 61	OF to ℄T — 48
FIXED PANEL (2)	GLASS WIDTH															
	GLASS HEIGHT															

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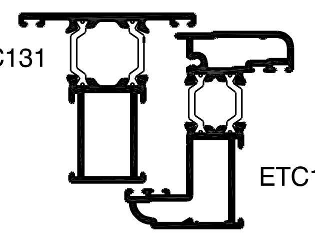
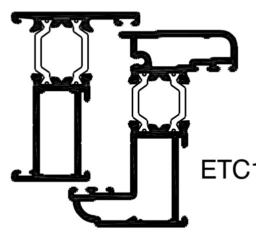
- H = Overall window outer frame height - outside
- ℄ = Centre line of transom/mullion
- O/F = Extreme edge of outer frame





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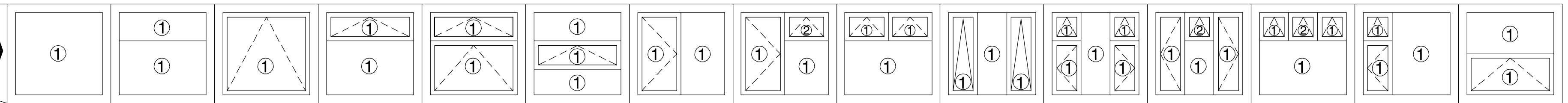
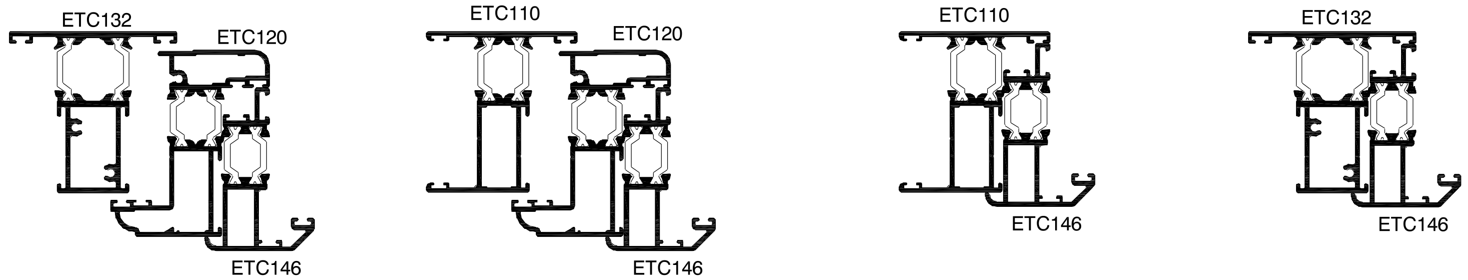
SAWING TABLES

INTERNALLY BEADED USING OUTER FRAME ETC110 WITH VENT FRAME ETC120, TRANSOM/MULLION ETC132 AND REVERSE ADAPTOR ETC146



PART DESCRIPTIONS	TYPICAL STYLES															
OUTER FRAME	HEAD & CILL	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
	JAMBS	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
	TRANSOM(S)		W - 72		W - 72	W - 72	W - 72		OF to ℄M - 49	W - 72		OF to ℄M - 49	℄M to ℄M - 26	W - 72	OF to ℄M - 49	W - 72
	MULLION(S)							H - 72	H - 72	OF to ℄T - 49	H - 72	H - 72	H - 72	OF to ℄T - 49	H - 72	
REVERSE ADAPTOR (FIXED PANEL)	HORIZONTAL COMPONENTS	W - 60	W - 60		W - 60		W - 60	OF to ℄M - 36	OF to ℄M - 36	W - 60	℄M to ℄M - 12	℄M to ℄M - 12	℄M to ℄M - 12	W - 60	OF to ℄T - 36	W - 60
	VERTICAL COMPONENTS	H - 60	OF to ℄T - 36		OF to ℄T - 36		OF to ℄T - 36	H - 60	OF to ℄T - 36	OF to ℄T - 36	H - 60	H - 60	OF to ℄T - 36	OF to ℄T - 36	H - 60	OF to ℄T - 36
FIXED PANEL	GLASS WIDTH	W - 112	W - 112		W - 112		W - 112	OF to ℄M - 88	OF to ℄M - 88	W - 112	℄M to ℄M - 64	℄M to ℄M - 64	℄M to ℄M - 64	W - 112	OF to ℄M - 88	W - 112
	GLASS HEIGHT	H - 112	OF to ℄T - 88		OF to ℄T - 88		OF to ℄T - 88	H - 112	OF to ℄T - 88	OF to ℄T - 88	H - 112	H - 112	OF to ℄T - 88	OF to ℄T - 88	H - 112	OF to ℄T - 88
VENT (1)	HORIZONTAL COMPONENTS			W - 60	W - 60	W - 60	W - 60	OF to ℄M - 36	OF to ℄M - 36	OF to ℄M - 36	OF to ℄M - 36	OF to ℄M - 36	OF to ℄M - 36	OF to ℄M - 36	OF to ℄M - 36	W - 60
	VERTICAL COMPONENTS			H - 60	OF to ℄T - 36	OF to ℄T - 36	℄T to ℄T - 12	H - 60	H - 60	OF to ℄T - 36	H - 60	OF to ℄T - 36	H - 60	OF to ℄T - 36	OF to ℄T - 36	OF to ℄T - 36
REVERSE ADAPTOR VENT(1)	HORIZONTAL COMPONENTS			W - 126	W - 126	W - 126	W - 126	OF to ℄M - 102	OF to ℄M - 102	OF to ℄M - 102	OF to ℄M - 102	OF to ℄M - 102	OF to ℄M - 102	OF to ℄M - 102	OF to ℄M - 102	W - 126
	VERTICAL COMPONENTS			H - 126	OF to ℄T - 102	OF to ℄T - 102	℄T to ℄T - 78	H - 126	H - 126	OF to ℄T - 102	H - 126	OF to ℄T - 102	H - 126	OF to ℄T - 102	OF to ℄T - 102	OF to ℄T - 102
VENT (2)	HORIZONTAL COMPONENTS								OF to ℄M - 36				℄M to ℄M - 12	℄M to ℄M - 12		
	VERTICAL COMPONENTS								OF to ℄T - 36				OF to ℄T - 36	OF to ℄T - 36		
REVERSE ADAPTOR VENT(2)	HORIZONTAL COMPONENTS								OF to ℄M - 102				℄M to ℄M - 78	℄M to ℄M - 78		
	VERTICAL COMPONENTS								OF to ℄T - 102				OF to ℄T - 102	OF to ℄T - 102		
VENT (1)	GLASS WIDTH			W - 180	W - 180	W - 180	W - 180	OF to ℄M - 156	OF to ℄M - 156	OF to ℄M - 156	OF to ℄M - 156	OF to ℄M - 156	OF to ℄M - 156	OF to ℄M - 156	OF to ℄M - 156	W - 180
	GLASS HEIGHT			H - 112	OF to ℄T - 156	OF to ℄T - 156	℄T to ℄T - 132	H - 180	H - 180	OF to ℄T - 156	H - 180	OF to ℄T - 156	H - 180	OF to ℄T - 156	OF to ℄T - 156	OF to ℄T - 156
VENT (2)	GLASS WIDTH								OF to ℄M - 156				℄M to ℄M - 132	℄M to ℄M - 132		
	GLASS HEIGHT								OF to ℄T - 156				OF to ℄T - 156	OF to ℄T - 156		

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



fETC-55-15-01

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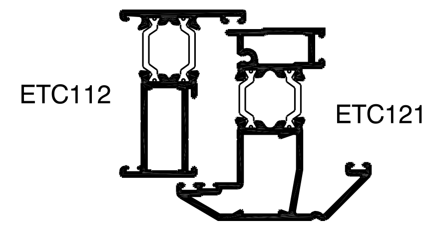
SAWING TABLES

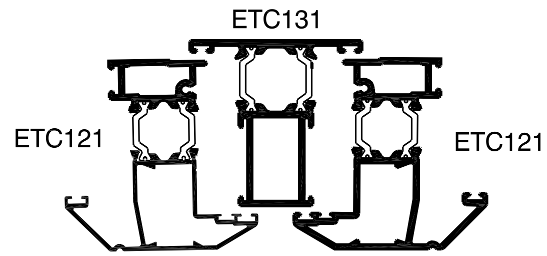
INTERNALLY BEADED USING OUTER FRAME ETC112 WITH VENT AND FALSE VENT FRAME ETC121 AND TRANSOM/MULLION ETC131

PART DESCRIPTIONS / TYPICAL STYLES		①	① / ①	① / ② / ①	① ①	① ② / ②	② ② / ①	① ② ①	② ② / ② ① ②	② / ① ① ①	① ② ① / ①
OUTER FRAME	HEAD & CILL	W	W	W	W	W	W	W	W	W	W
	JAMBS	H	H	H	H	H	H	H	H	H	H
	TRANSOM(S)		W — 51	W - 51		OF to ℄M — 38	W — 51		OF to ℄M — 38	℄M to ℄M — 25	W — 51
	MULLION(S)				H — 51	H — 51	OF to ℄M — 38	H — 51	H — 51	H — 51	OF to ℄M — 38
VENT (1)	HORIZONTAL COMPONENTS	W — 38	W — 38	W — 38	OF to ℄M — 25	OF to ℄M — 25	W — 38	OF to ℄M — 25	℄M to ℄M — 12	℄M to ℄M — 12	W — 38
	VERTICAL COMPONENTS	H — 38	OF to ℄T — 25	OF to ℄T — 25	H — 38	H — 38	OF to ℄T — 25	H — 38	H — 38	OF to ℄T — 25	OF to ℄T — 25
VENT (2)	HORIZONTAL COMPONENTS			W — 38		OF to ℄M — 25	OF to ℄M — 25	℄M to ℄M — 12	OF to ℄M — 25	OF to ℄M — 25	OF to ℄M — 25
	VERTICAL COMPONENTS			℄T to ℄T — 12		OF to ℄T — 25	OF to ℄T — 25	H — 38	OF to ℄T — 25	H — 38	OF to ℄T — 25
VENT (3)	HORIZONTAL COMPONENTS										℄M to ℄M — 12
	VERTICAL COMPONENTS										OF to ℄T — 25
VENT (1)	GLASS WIDTH	W — 145	W — 145	W — 145	OF to ℄M — 132	OF to ℄M — 132	W — 145	OF to ℄M — 132	℄M to ℄M — 119	℄M to ℄M — 119	W — 145
	GLASS HEIGHT	H — 145	OF to ℄T — 132	OF to ℄T — 132	H — 145	H — 145	OF to ℄T — 132	H — 145	H — 145	OF to ℄T — 132	OF to ℄T — 132
VENT (2)	GLASS WIDTH			W — 145		OF to ℄M — 132	OF to ℄M — 132	℄M to ℄M — 119	OF to ℄M — 132	OF to ℄M — 132	OF to ℄M — 132
	GLASS HEIGHT			℄T to ℄T — 119		OF to ℄T — 132	OF to ℄T — 132	H — 145	OF to ℄T — 132	H — 145	OF to ℄T — 132
VENT (3)	GLASS WIDTH										℄M to ℄M — 119
	GLASS HEIGHT										OF to ℄T — 132

LEGEND:

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





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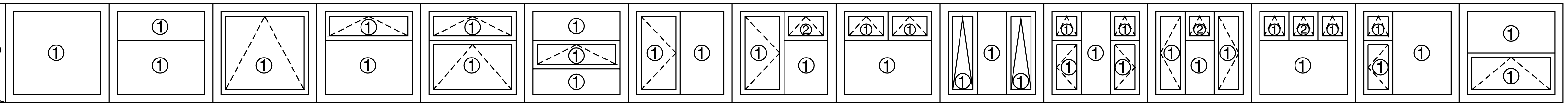
SAWING TABLES

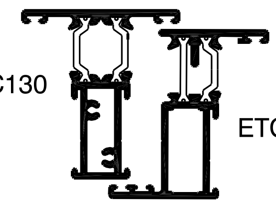
EXTERNALLY BEADED WINDOWS USING ETC112 WITH VENT ETC122 AND TRANSOM ETC130

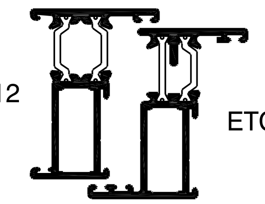


PART DESCRIPTIONS	TYPICAL STYLES															
OUTER FRAME	HEAD & CILL	W	W	W	W		W	W	W	W	W		W	W		W
	JAMBS	H	H	H	H		H	H	H	H	H		H	H		H
	TRANSOM(S)		W — 51		W — 51		W - 51		OF to ℄M — 35	W — 51			℄M to ℄M — 19	W — 51		W — 51
	MULLION(S)							H — 51	H — 51	OF to ℄T — 35	H — 51		H — 51	OF to ℄T — 35		
VENT (1)	HORIZONTAL COMPONENTS			W — 38	W — 38		W — 38	OF to ℄M — 22	OF to ℄M — 22	OF to ℄M — 22	OF to ℄M — 22		OF to ℄M — 22	OF to ℄M — 22		W — 38
	VERTICAL COMPONENTS			H — 38	OF to ℄T — 22		℄T to ℄T — 6	H — 38	H — 38	OF to ℄T — 22	H — 38		H — 38	OF to ℄T — 22		OF to ℄T — 22
VENT (2)	HORIZONTAL COMPONENTS								OF to ℄M — 22				℄M to ℄M — 6	℄M to ℄M — 6		
	VERTICAL COMPONENTS								OF to ℄T — 22				OF to ℄T — 22	OF to ℄T — 22		
VENT (1)	GLASS WIDTH			W — 120	W — 120		W — 120	OF to ℄M — 104	OF to ℄M — 104	OF to ℄M — 104	OF to ℄M — 104		OF to ℄M — 104	OF to ℄M — 104		W — 120
	GLASS HEIGHT			H — 120	OF to ℄T — 104		℄T to ℄T — 88	H — 120	H — 120	OF to ℄T — 104	H — 120		H — 120	OF to ℄T — 104		OF to ℄T — 104
VENT (2)	GLASS WIDTH								OF to ℄M — 104				℄M to ℄M — 88	℄M to ℄M — 88		
	GLASS HEIGHT								OF to ℄T — 104				OF to ℄T — 104	OF to ℄T — 104		
FIXED PANEL (1)	GLASS WIDTH	W — 61	W — 61		W — 61		W — 61	OF to ℄M — 45	OF to ℄M — 45	W — 61	℄M to ℄M — 29		℄M to ℄M — 29	W — 61		W — 61
	GLASS HEIGHT	H — 61	OF to ℄T — 45		OF to ℄T — 45		OF to ℄T — 45	H — 61	OF to ℄T — 45	OF to ℄T — 45	H — 61		OF to ℄T — 45	OF to ℄T — 45		OF to ℄T — 45
FIXED PANEL (2)	GLASS WIDTH															
	GLASS HEIGHT															

LEGEND:

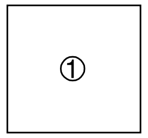
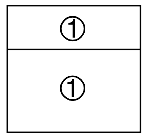
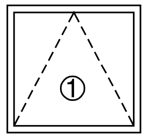
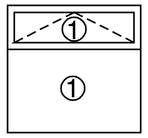
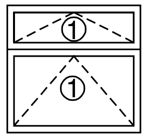
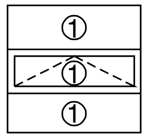
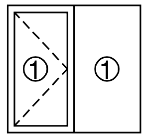
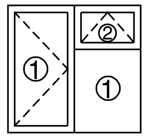
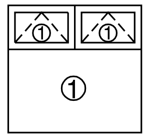
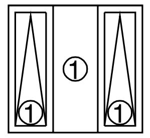
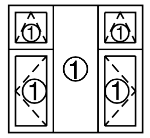
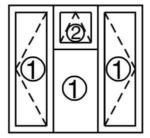
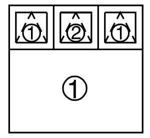
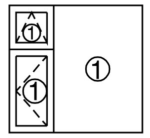
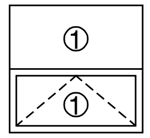
W = Overall window outer frame width - outside
H = Overall window outer frame height - outside
℄ = Centre line of transom/mullion
O/F = Extreme edge of outer frame





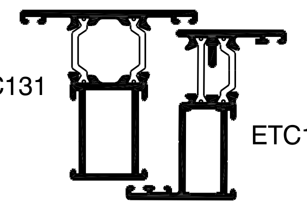
fETC-55-10-00

EXTERNALLY BEADED WINDOWS USING ETC112 WITH VENT ETC122 AND TRANSOM ETC131

PART DESCRIPTIONS	TYPICAL STYLES															
OUTER FRAME	HEAD & CILL	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
	JAMBS	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
	TRANSOM(S)		W — 51		W — 51	W — 51	W - 51		OF to ℄M — 38	W — 51		OF to ℄M — 38	℄M to ℄M — 25	W — 51	OF to ℄M — 38	W — 51
	MULLION(S)							H — 51	H — 51	OF to ℄T — 38	H — 51	H — 51	H — 51	OF to ℄T — 38	H — 51	
VENT (1)	HORIZONTAL COMPONENTS			W — 38	W — 38	W — 38	W — 38	OF to ℄M — 25	OF to ℄M — 25	OF to ℄M — 25	OF to ℄M — 25	OF to ℄M — 25	OF to ℄M — 25	OF to ℄M — 25	OF to ℄M — 25	W — 38
	VERTICAL COMPONENTS			H — 38	OF to ℄T — 25	OF to ℄T — 25	℄T to ℄T — 12	H — 38	H — 38	OF to ℄T — 25	H — 38	OF to ℄T — 25	H — 38	OF to ℄T — 25	OF to ℄T — 25	OF to ℄T — 25
VENT (2)	HORIZONTAL COMPONENTS					W — 38			OF to ℄M — 25				℄M to ℄M — 12	℄M to ℄M — 12		
	VERTICAL COMPONENTS					OF to ℄T — 25			OF to ℄T — 25				OF to ℄T — 25	OF to ℄T — 25		
VENT (1)	GLASS WIDTH			W — 120	W — 120	W — 120	W — 120	OF to ℄M — 107	OF to ℄M — 107	OF to ℄M — 107	OF to ℄M — 107	OF to ℄M — 107	OF to ℄M — 107	OF to ℄M — 107	OF to ℄M — 107	W — 120
	GLASS HEIGHT			H — 120	OF to ℄T — 107	OF to ℄T — 107	℄T to ℄T — 94	H — 120	H — 120	OF to ℄T — 107	H — 120	OF to ℄T — 107	H — 120	OF to ℄T — 107	OF to ℄T — 107	OF to ℄T — 107
VENT (2)	GLASS WIDTH								OF to ℄M — 107				℄M to ℄M — 94	℄M to ℄M — 94		
	GLASS HEIGHT								OF to ℄T — 107				OF to ℄T — 107	OF to ℄T — 107		
FIXED PANEL (1)	GLASS WIDTH	W — 61	W — 61		W — 61		W — 61	OF to ℄M — 48	OF to ℄M — 48	W — 61	℄M to ℄M — 35	℄M to ℄M — 35	℄M to ℄M — 35	W — 61	OF to ℄M — 48	W — 61
	GLASS HEIGHT	H — 61	OF to ℄T — 48		OF to ℄T — 48		OF to ℄T — 48	H — 61	OF to ℄T — 48	OF to ℄T — 48	H — 61	H — 61	OF to ℄T — 48	OF to ℄T — 48	H — 61	OF to ℄T — 48
FIXED PANEL (2)	GLASS WIDTH															
	GLASS HEIGHT															

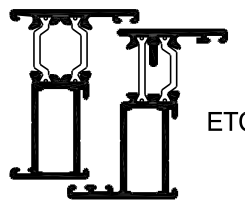
LEGEND:
- W = Overall window outer frame width - outside
- H = Overall window outer frame height - outside
- ℄ = Centre line of transom/mullion
- O/F = Extreme edge of outer frame

ETC131



ETC122

ETC112



ETC122

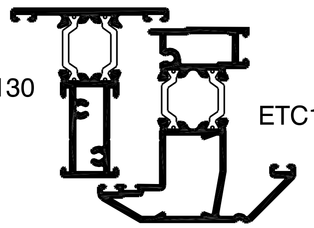
fETC-55-11-00

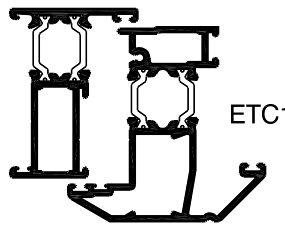
SAWING TABLES

EXTERNALLY BEADED FIXED LIGHT AND INTERNALLY BEADED VENT USING OUTER FRAME ETC112 WITH VENT FRAME ETC121 AND TRANSOM MULLION ETC130

PART DESCRIPTIONS / TYPICAL STYLES		①	① ①	①	① ①	① ①	① ① ①	① ①	① ② ①	① ① ①	① ① ①	① ① ① ① ①	① ② ① ① ①	① ② ① ①	① ① ①	① ①
OUTER FRAME	HEAD & CILL	W	W	W	W		W	W	W	W	W		W	W		W
	JAMBS	H	H	H	H		H	H	H	H	H		H	H		H
	TRANSOM(S)		W — 51		W — 51		W - 51		OF to℄M — 35	W — 51			℄M to℄M — 19	W — 51		W — 51
	MULLION(S)							H — 51	H — 51	OF to℄T — 35	H — 51		H — 51	OF to℄T — 35		
VENT (1)	HORIZONTAL COMPONENTS			W — 38	W — 38		W — 38	OF to℄M — 22	OF to℄M — 22	OF to℄M — 22	OF to℄M — 22		OF to℄M — 22	OF to℄M — 22		W — 38
	VERTICAL COMPONENTS			H — 38	OF to℄T — 22		℄T to℄T — 6	H — 38	H — 38	OF to℄T — 22	H — 38		H — 38	OF to℄T — 22		OF to℄T — 22
VENT (2)	HORIZONTAL COMPONENTS								OF to℄M — 22				℄M to℄M — 6	℄M to℄M — 6		
	VERTICAL COMPONENTS								OF to℄T — 22				OF to℄T — 22	OF to℄T — 22		
VENT (1)	GLASS WIDTH			W — 145	W — 145		W — 145	OF to℄M — 129	OF to℄M — 129	OF to℄M — 129	OF to℄M — 129		OF to℄M — 129	OF to℄M — 129		W — 145
	GLASS HEIGHT			H — 145	OF to℄T — 129		℄T to℄T — 113	H — 145	H — 145	OF to℄T — 129	H — 145		H — 145	OF to℄T — 129		OF to℄T — 129
VENT (2)	GLASS WIDTH								OF to℄M — 129				℄M to℄M — 113	℄M to℄M — 113		
	GLASS HEIGHT								OF to℄T — 129				OF to℄T — 129	OF to℄T — 129		
FIXED PANEL (1)	GLASS WIDTH	W — 61	W — 61		W — 61		W — 61	OF to℄M — 45	OF to℄M — 45	W — 61	℄M to℄M — 29	C	℄M to℄M — 29	W — 61		W — 61
	GLASS HEIGHT	H — 61	OF to℄T — 45		OF to℄T — 45		OF to℄T — 45	H — 61	OF to℄T — 45	OF to℄T — 45	H — 61		OF to℄T — 45	OF to℄T — 45		OF to℄T — 45
FIXED PANEL (2)	GLASS WIDTH															
	GLASS HEIGHT															

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

ETC130

ETC121

ETC112

ETC121

fETC-55-12-00

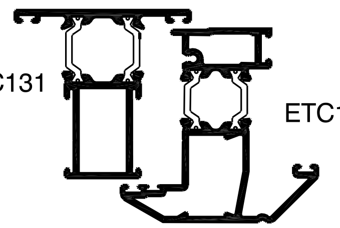
SAWING TABLES

EXTERNALLY BEADED FIXED LIGHT AND INTERNALLY BEADED VENT USING OUTER FRAME ETC112 WITH VENT FRAME ETC121 AND TRANSOM MULLION ETC131

PART DESCRIPTIONS	TYPICAL STYLES	①	① ①	①	① ①	① ①	① ① ①	① ①	① ② ①	① ① ①	① ① ①	① ① ① ① ①	① ② ① ① ①	① ② ① ①	① ① ①	① ①
OUTER FRAME	HEAD & CILL	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
	JAMBS	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
	TRANSOM(S)		W — 51		W — 51	W — 51	W - 51		OF to ℄M — 38	W — 51		OF to ℄M — 38	℄M to ℄M — 25	W — 51	OF to ℄M — 38	W — 51
	MULLION(S)							H — 51	H — 51	OF to ℄T — 38	H — 51	H — 51	H — 51	OF to ℄T — 38	H — 51	
VENT (1)	HORIZONTAL COMPONENTS			W — 38	W — 38	W — 38	W — 38	OF to ℄M — 25	OF to ℄M — 25	OF to ℄M — 25	OF to ℄M — 25	OF to ℄M — 25	OF to ℄M — 25	OF to ℄M — 25	OF to ℄M — 25	W — 38
	VERTICAL COMPONENTS			H — 38	OF to ℄T — 25	OF to ℄T — 25	℄T to ℄T — 12	H — 38	H — 38	OF to ℄T — 25	H — 38	OF to ℄T — 25	H — 38	OF to ℄T — 25	OF to ℄T — 25	OF to ℄T — 25
VENT (2)	HORIZONTAL COMPONENTS					W — 38			OF to ℄M — 25				℄M to ℄M — 12	℄M to ℄M — 12		
	VERTICAL COMPONENTS					OF to ℄T — 25			OF to ℄T — 25				OF to ℄T — 25	OF to ℄T — 25		
VENT (1)	GLASS WIDTH			W — 145	W — 145	W — 145	W — 145	OF to ℄M — 132	OF to ℄M — 132	OF to ℄M — 132	OF to ℄M — 132	OF to ℄M — 132	OF to ℄M — 132	OF to ℄M — 132	OF to ℄M — 132	W — 145
	GLASS HEIGHT			H — 145	OF to ℄T — 132	OF to ℄T — 132	℄T to ℄T — 119	H — 145	H — 145	OF to ℄T — 132	H — 145	OF to ℄T — 132	H — 145	OF to ℄T — 132	OF to ℄T — 132	OF to ℄T — 132
VENT (2)	GLASS WIDTH								OF to ℄M — 132				℄M to ℄M — 119	℄M to ℄M — 119		
	GLASS HEIGHT								OF to ℄T — 132				OF to ℄T — 132	OF to ℄T — 132		
FIXED PANEL (1)	GLASS WIDTH	W — 61	W — 61		W — 61		W — 61	OF to ℄M — 48	OF to ℄M — 48	W — 61	℄M to ℄M — 35	℄M to ℄M — 35	℄M to ℄M — 35	W — 61	OF to ℄M — 48	W — 61
	GLASS HEIGHT	H — 61	OF to ℄T — 48		OF to ℄T — 48		OF to ℄T — 48	H — 61	OF to ℄T — 48	OF to ℄T — 48	H — 61	H — 61	OF to ℄T — 48	OF to ℄T — 48	H — 61	OF to ℄T — 48
FIXED PANEL (2)	GLASS WIDTH															
	GLASS HEIGHT															

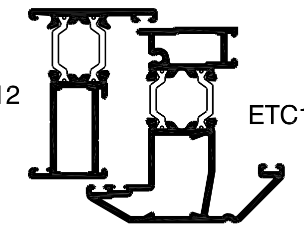
LEGEND:
- W = Overall window outer frame width - outside
- H = Overall window outer frame height - outside
- ℄ = Centre line of transom/mullion
- O/F = Extreme edge of outer frame

ETC131



ETC121

ETC112

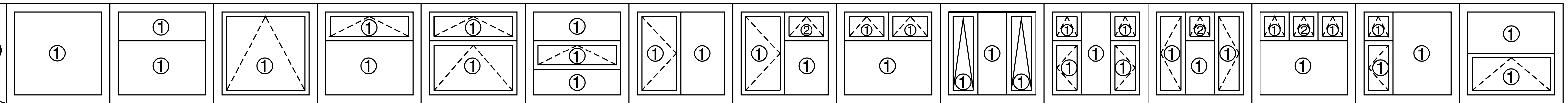


ETC121

fETC-55-13-00

SAWING TABLES

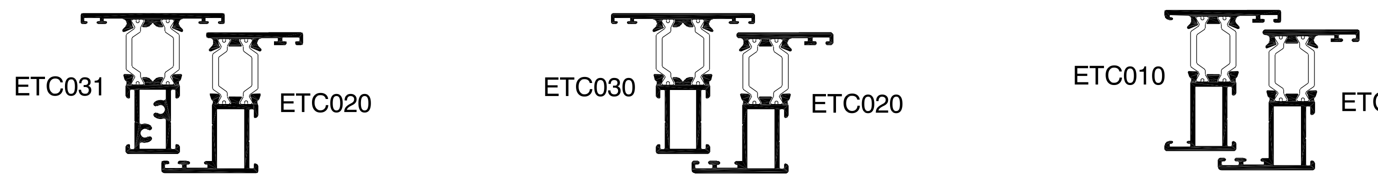
EXTERNALLY BEADED USING OUTER FRAME ETC010 WITH VENT FRAME ETC020 AND TRANSOM/MULLION ETC030/ETC031



PART DESCRIPTIONS	TYPICAL STYLES															
OUTER FRAME	HEAD & CILL	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
	JAMBS	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
	TRANSOM(S)		W — 48		W — 48	W — 48	W - 48		OF to ℄M — 33	W — 48		OF to ℄M — 33	℄M to ℄M — 18	W — 48	OF to ℄M — 33	W — 48
	MULLION(S)							H — 48	H — 48	OF to ℄T — 33	H — 48	H — 48	H — 48	OF to ℄T — 33	H — 48	
VENT (1)	HORIZONTAL COMPONENTS			W — 36	W — 36	W — 36	W — 36	OF to ℄M — 21	OF to ℄M — 21	OF to ℄M — 21	OF to ℄M — 21	OF to ℄M — 21	OF to ℄M — 21	OF to ℄M — 21	OF to ℄M — 21	W — 36
	VERTICAL COMPONENTS			H — 36	OF to ℄T — 21	OF to ℄T — 21	℄T to ℄T — 6	H — 36	H — 36	OF to ℄T — 21	H — 36	OF to ℄T — 21	H — 36	OF to ℄T — 21	OF to ℄T — 21	OF to ℄T — 21
VENT (2)	HORIZONTAL COMPONENTS					W — 36			OF to ℄M — 21				℄M to ℄M — 6	℄M to ℄M — 6		
	VERTICAL COMPONENTS					OF to ℄T — 21			OF to ℄T — 21				OF to ℄T — 21	OF to ℄T — 21		
VENT (1)	GLASS WIDTH			W — 111	W — 111	W — 111	W — 111	OF to ℄M — 96	OF to ℄M — 96	OF to ℄M — 96	OF to ℄M — 96	OF to ℄M — 96	OF to ℄M — 96	OF to ℄M — 96	OF to ℄M — 96	W — 111
	GLASS HEIGHT			H — 111	OF to ℄T — 96	OF to ℄T — 96	℄T to ℄T — 81	H — 111	H — 111	OF to ℄T — 96	H — 111	OF to ℄T — 96	H — 111	OF to ℄T — 96	OF to ℄T — 96	OF to ℄T — 96
VENT (2)	GLASS WIDTH								OF to ℄M — 96				℄M to ℄M — 81	℄M to ℄M — 81		
	GLASS HEIGHT								OF to ℄T — 96				OF to ℄T — 96	OF to ℄T — 96		
FIXED PANEL (1)	GLASS WIDTH	W — 58	W — 58		W — 58		W — 58	OF to ℄M — 43	OF to ℄M — 43	W — 58	℄M to ℄M — 28	℄M to ℄M — 28	℄M to ℄M — 28	W — 58	OF to ℄M — 43	W — 58
	GLASS HEIGHT	H — 58	OF to ℄T — 43		OF to ℄T — 43		OF to ℄T — 43	H — 58	OF to ℄T — 43	OF to ℄T — 43	H — 58	H — 58	OF to ℄T — 43	OF to ℄T — 43	H — 58	OF to ℄T — 43
FIXED PANEL (2)	GLASS WIDTH															
	GLASS HEIGHT															

LEGEND:

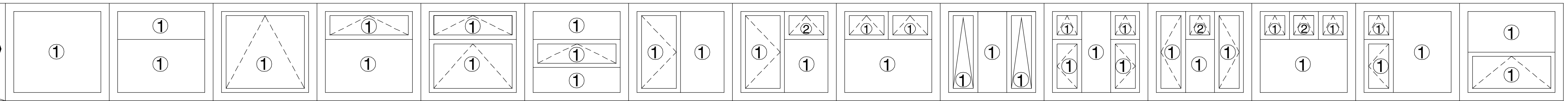
- W = Overall window outer frame width - outside
- H = Overall window outer frame height - outside
- ℄ = Centre line of transom/mullion
- O/F = Extreme edge of outer frame



fETC-47-01-00

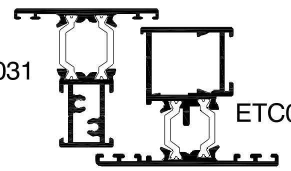
SAWING TABLES

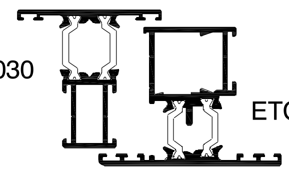
EXTERNALLY BEADED FIXED FRAME AND INTERNALLY BEADED VENT FRAME USING OUTER FRAME ETC010 WITH VENT FRAME ETC024N AND TRANSOM/MULLION ETC030/ ETC031

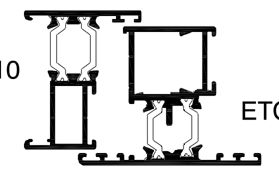


PART DESCRIPTIONS	TYPICAL STYLES	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
OUTER FRAME	HEAD & CILL	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
	JAMBS	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
	TRANSOM(S)		W — 48		W — 48	W — 48	W - 48		OF to ℄M — 33	W — 48		OF to ℄M — 33	℄M to ℄M — 18	W — 48	OF to ℄M — 33	W — 48
	MULLION(S)							H — 48	H — 48	OF to ℄T — 33	H — 48	H — 48	H — 48	OF to ℄T — 33	H — 48	
VENT (1)	HORIZONTAL COMPONENTS			W — 36	W — 36	W — 36	W — 36	OF to ℄M — 21	OF to ℄M — 21	OF to ℄M — 21	OF to ℄M — 21	OF to ℄M — 21	OF to ℄M — 21	OF to ℄M — 21	OF to ℄M — 21	W — 36
	VERTICAL COMPONENTS			H — 36	OF to ℄T — 21	OF to ℄T — 21	℄T to ℄T — 6	H — 36	H — 36	OF to ℄T — 21	H — 36	OF to ℄T — 21	H — 36	OF to ℄T — 21	OF to ℄T — 21	OF to ℄T — 21
VENT (2)	HORIZONTAL COMPONENTS					W — 36			OF to ℄M — 21				℄M to ℄M — 6	℄M to ℄M — 6		
	VERTICAL COMPONENTS					OF to ℄T — 21			OF to ℄T — 21				OF to ℄T — 21	OF to ℄T — 21		
VENT (1)	GLASS WIDTH			W — 128	W — 128	W — 128	W — 128	OF to ℄M — 113	OF to ℄M — 113	OF to ℄M — 113	OF to ℄M — 113	OF to ℄M — 113	OF to ℄M — 113	OF to ℄M — 113	OF to ℄M — 113	W — 128
	GLASS HEIGHT			H — 128	OF to ℄T — 113	OF to ℄T — 113	℄T to ℄T — 98	H — 128	H — 128	OF to ℄T — 113	H — 128	OF to ℄T — 113	H — 128	OF to ℄T — 113	OF to ℄T — 113	OF to ℄T — 113
VENT (2)	GLASS WIDTH								OF to ℄M — 113				℄M to ℄M — 98	℄M to ℄M — 98		
	GLASS HEIGHT								OF to ℄T — 113				OF to ℄T — 113	OF to ℄T — 113		
FIXED PANEL (1)	GLASS WIDTH	W — 58	W — 58		W — 58		W — 58	OF to ℄M — 43	OF to ℄M — 43	W — 58	℄M to ℄M — 28	℄M to ℄M — 28	℄M to ℄M — 28	W — 58	OF to ℄M — 43	W — 58
	GLASS HEIGHT	H — 58	OF to ℄T — 43		OF to ℄T — 43		OF to ℄T — 43	H — 58	OF to ℄T — 43	OF to ℄T — 43	H — 58	H — 58	OF to ℄T — 43	OF to ℄T — 43	H — 58	OF to ℄T — 43
FIXED PANEL (2)	GLASS WIDTH															
	GLASS HEIGHT															

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

ETC031

ETC024N

ETC030

ETC024N

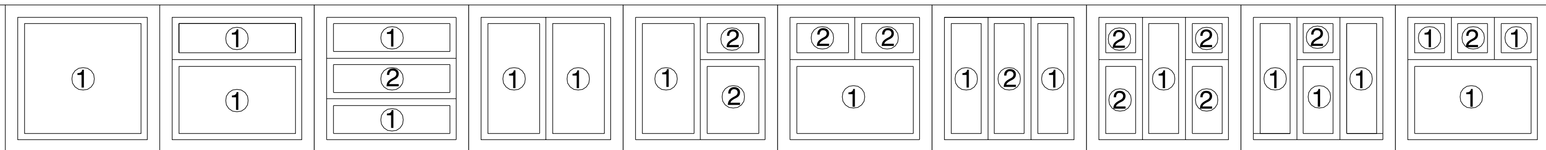
ETC010

ETC024N

fETC-47-02-01

ALITHERM - 47

SAWING TABLES

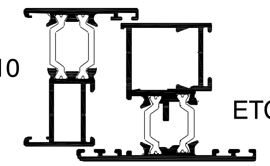
INTERNALLY BEADED USING OUTER FRAME ETC010 WITH VENT AND FALSE VENT FRAME ETC024N AND TRANSOM/MULLION ETC030/ETC031

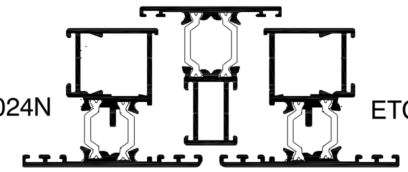


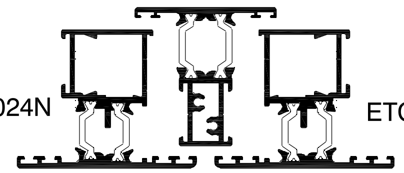
PART DESCRIPTIONS	TYPICAL STYLES										
OUTER FRAME	HEAD & CILL	W	W	W	W	W	W	W	W	W	W
	JAMBS	H	H	H	H	H	H	H	H	H	H
	TRANSOM(S)		W — 48	W - 48		OF to ℄M — 33	W — 48		OF to ℄M — 33	℄M to ℄M — 18	W — 48
	MULLION(S)				H — 48	H — 48	OF to ℄M — 33	H — 48	H — 48	H — 48	OF to ℄M — 33
VENT (1)	HORIZONTAL COMPONENTS	W — 36	W — 36	W — 36	OF to ℄M — 21	OF to ℄M — 21	W — 36	OF to ℄M — 21	℄M to ℄M — 6	℄M to ℄M — 6	W — 36
	VERTICAL COMPONENTS	H — 36	OF to ℄T — 21	OF to ℄T — 21	H — 36	H — 36	OF to ℄T — 21	H — 36	H — 36	OF to ℄T — 21	OF to ℄T — 21
VENT (2)	HORIZONTAL COMPONENTS			W — 36		OF to ℄M — 21	OF to ℄M — 21	℄M to ℄M — 6	OF to ℄M — 21	OF to ℄M — 21	OF to ℄M — 21
	VERTICAL COMPONENTS			℄T to ℄T — 6		OF to ℄T — 21	OF to ℄T — 21	H — 36	OF to ℄T — 21	H — 36	OF to ℄T — 21
VENT (3)	HORIZONTAL COMPONENTS										℄M to ℄M — 6
	VERTICAL COMPONENTS										OF to ℄T — 21
VENT (1)	GLASS WIDTH	W — 128	W — 128	W — 128	OF to ℄M — 113	OF to ℄M — 113	W — 128	OF to ℄M — 113	℄M to ℄M — 98	℄M to ℄M — 98	W — 128
	GLASS HEIGHT	H — 128	OF to ℄T — 113	OF to ℄T — 113	H — 128	H — 128	OF to ℄T — 113	H — 128	H — 128	OF to ℄T — 113	OF to ℄T — 113
VENT (2)	GLASS WIDTH			W — 128		OF to ℄M — 113	OF to ℄M — 113	℄M to ℄M — 98	OF to ℄M — 113	OF to ℄M — 113	OF to ℄M — 113
	GLASS HEIGHT			℄T to ℄T — 98		OF to ℄T — 113	OF to ℄T — 113	H — 128	OF to ℄T — 113	H — 128	OF to ℄T — 113
VENT (3)	GLASS WIDTH										℄M to ℄M — 98
	GLASS HEIGHT										OF to ℄T — 113

LEGEND:

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



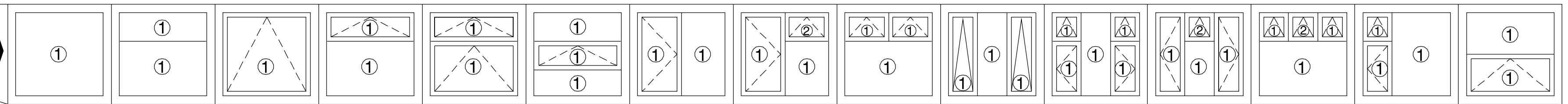




fETC-47-03-01

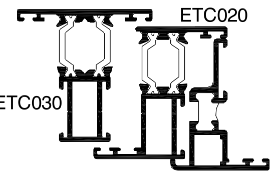
SAWING TABLES

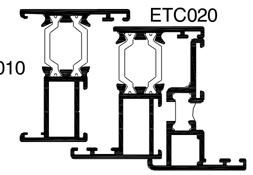
INTERNALLY BEADED USING OUTER FRAME ETC010 WITH VENT FRAME ETC020, TRANSOM/MULLION ETC030/ETC031 AND REVERSE ADAPTOR ETC046



PART DESCRIPTIONS	TYPICAL STYLES															
OUTER FRAME	HEAD & CILL	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
	JAMBS	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
	TRANSOM(S)		W - 48		W - 48	W - 48	W - 48		OF to ℄M - 33	W - 48		OF to ℄M - 33	℄M to ℄M - 18	W - 48	OF to ℄M - 33	W - 48
	MULLION(S)							H - 48	H - 48	OF to ℄T - 33	H - 48	H - 48	H - 48	OF to ℄T - 33	H - 48	
REVERSE ADAPTOR (FIXED PANEL)	HORIZONTAL COMPONENTS	W - 38	W - 38		W - 38		W - 38	OF to ℄M - 23	OF to ℄M - 23	W - 38	℄M to ℄M - 8	℄M to ℄M - 8	℄M to ℄M - 8	W - 38	OF to ℄T - 23	W - 38
	VERTICAL COMPONENTS	H - 38	OF to ℄T - 23		OF to ℄T - 23		OF to ℄T - 23	H - 38	OF to ℄T - 23	OF to ℄T - 23	H - 38	H - 38	OF to ℄T - 23	OF to ℄T - 23	H - 38	OF to ℄T - 23
FIXED PANEL	GLASS WIDTH	W - 88	W - 88		W - 88		W - 88	W - 88	OF to ℄M - 73	W - 88	℄M to ℄M - 58	℄M to ℄M - 58	℄M to ℄M - 58	W - 88	OF to ℄M - 73	W - 88
	GLASS HEIGHT	H - 88	OF to ℄T - 73		OF to ℄T - 73		OF to ℄T - 73	H - 88	OF to ℄T - 73	OF to ℄T - 73	H - 88	H - 88	OF to ℄T - 73	OF to ℄T - 73	H - 88	OF to ℄T - 73
VENT (1)	HORIZONTAL COMPONENTS			W - 36	W - 36	W - 36	W - 36	OF to ℄T - 21	OF to ℄M - 21	OF to LM - 21	OF to ℄M - 21	OF to ℄M - 21	OF to ℄M - 21	OF to ℄M - 21	OF to ℄M - 21	W - 36
	VERTICAL COMPONENTS			H - 36	OF to ℄T - 21	OF to ℄T - 21	℄T to ℄T - 6	H - 36	H - 36	OF to ℄T - 21	H - 36	OF to ℄T - 21	H - 36	OF to ℄T - 21	OF to ℄T - 21	OF to ℄T - 21
REVERSE ADAPTOR VENT(1)	HORIZONTAL COMPONENTS			W - 91	W - 91	W - 91	W - 91	OF to ℄T - 76	OF to ℄M - 76	OF to ℄M - 76	OF to ℄M - 76	OF to ℄M - 76	OF to ℄M - 76	OF to ℄M - 76	OF to ℄M - 76	W - 91
	VERTICAL COMPONENTS			H - 91	OF to ℄T - 76	OF to ℄T - 76	℄T to ℄T - 61	H - 91	H - 91	OF to ℄T - 76	H - 91	OF to ℄T - 76	H - 91	OF to ℄T - 76	OF to ℄T - 76	OF to ℄T - 76
VENT (2)	HORIZONTAL COMPONENTS								OF to ℄M - 21				℄M to ℄M - 6	℄M to ℄M - 6		
	VERTICAL COMPONENTS								OF to ℄T - 21				OF to ℄T - 21	OF to ℄T - 21		
REVERSE ADAPTOR VENT(2)	HORIZONTAL COMPONENTS								OF to ℄M - 76				℄M to ℄M - 61	℄M to ℄M - 61		
	VERTICAL COMPONENTS								OF to ℄T - 76				OF to ℄T - 76	OF to ℄T - 76		
VENT (1)	GLASS WIDTH			W - 140	W - 140	W - 140	W - 140	OF to ℄T - 125	OF to ℄M - 125	OF to ℄M - 125	OF to ℄M - 125	OF to ℄M - 125	OF to ℄M - 125	OF to ℄M - 125	OF to ℄M - 125	W - 140
	GLASS HEIGHT			H - 140	OF to ℄T - 125	OF to ℄T - 125	℄T to ℄T - 110	H - 140	H - 140	OF to ℄T - 125	H - 140	OF to ℄T - 125	H - 140	OF to ℄T - 125	OF to ℄T - 125	OF to ℄T - 125
VENT (2)	GLASS WIDTH								OF to ℄M - 125				℄M to ℄M - 110	℄M to ℄M - 110		
	GLASS HEIGHT								OF to ℄T - 125				OF to ℄T - 125	OF to ℄T - 125		

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

ETC020
ETC030

ETC046

ETC020
ETC010

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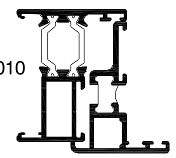
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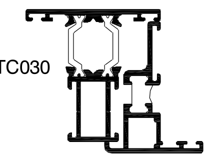
ETC030

ETC046

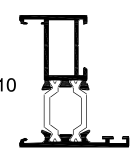
fETC-47-04-01

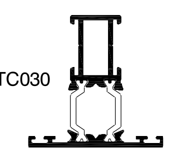
SAWING TABLES

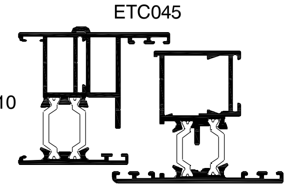
INTERNALLY BEADED USING OUTER FRAME ETC010 WITH VENTFRAME ETC024N, TRANSOM/MULLION ETC030/ETC031 AND REVERSE ADAPTOR ETC045

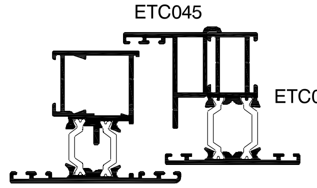
PART DESCRIPTIONS	TYPICAL STYLES															
OUTER FRAME	HEAD & CILL	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
OUTER FRAME	JAMBS	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
OUTER FRAME	TRANSOM(S)		W - 48		W - 48	W - 48	W - 48		OF to ℄M - 33	W - 48		OF to ℄M - 33	℄M to ℄M - 18	W - 48	OF to ℄M - 33	W - 48
OUTER FRAME	MULLION(S)							H - 48	H - 48	OF to ℄T - 33	H - 48	H - 48	H - 48	OF to ℄T - 33	H - 48	
FIXED PANEL	GLASS WIDTH	W - 58	W - 58		W - 58		W - 58	OF to ℄M - 43	OF to ℄M - 43	W - 58	℄M to ℄M - 28	℄M to ℄M - 28	℄M to ℄M - 28	W - 58	OF to ℄M - 43	W - 58
FIXED PANEL	GLASS HEIGHT	H - 58	OF to ℄T - 43		OF to ℄T - 43		OF to ℄T - 43	H - 58	OF to ℄T - 43	OF to ℄T - 43	H - 58	H - 58	OF to ℄T - 43	OF to ℄T - 43	H - 58	OF to ℄T - 43
VENT (1)	HORIZONTAL COMPONENTS			W - 67	W - 67	W - 67	W - 67	OF to ℄T - 52	OF to ℄M - 52	OF to LM - 52	OF to ℄M - 52	OF to ℄M - 52	OF to ℄M - 52	OF to ℄M - 52	OF to ℄M - 52	W - 67
VENT (1)	VERTICAL COMPONENTS			H - 67	OF to ℄T - 52	OF to ℄T - 52	℄T to ℄T - 37	H - 67	H - 67	OF to ℄T - 52	H - 67	OF to ℄T - 52	H - 67	OF to ℄T - 52	OF to ℄T - 52	OF to ℄T - 52
REVERSE ADAPTOR VENT(1)	HORIZONTAL COMPONENTS			W - 39	W - 39	W - 39	W - 39	OF to ℄T - 24	OF to ℄M - 24	OF to ℄M - 24	OF to ℄M - 24	OF to ℄M - 24	OF to ℄M - 24	OF to ℄M - 24	OF to ℄M - 24	W - 39
REVERSE ADAPTOR VENT(1)	VERTICAL COMPONENTS			H - 39	OF to ℄T - 24	OF to ℄T - 24	℄T to ℄T - 9	H - 39	H - 39	OF to ℄T - 24	H - 39	OF to ℄T - 24	H - 39	OF to ℄T - 24	OF to ℄T - 24	OF to ℄T -24
VENT (2)	HORIZONTAL COMPONENTS								OF to ℄M - 52				℄M to ℄M - 37	℄M to ℄M - 37		
VENT (2)	VERTICAL COMPONENTS								OF to ℄T - 52				OF to ℄T - 52	OF to ℄T - 52		
REVERSE ADAPTOR VENT(2)	HORIZONTAL COMPONENTS								OF to ℄M - 24				℄M to ℄M - 9	℄M to ℄M - 9		
REVERSE ADAPTOR VENT(2)	VERTICAL COMPONENTS								OF to ℄T - 24				OF to ℄T - 24	OF to ℄T - 24		
VENT (1)	GLASS WIDTH			W - 169	W - 169	W - 169	W - 169	OF to ℄T - 154	OF to ℄M - 154	OF to ℄M - 154	OF to ℄M - 154	OF to ℄M - 154	OF to ℄M - 154	OF to ℄M - 154	OF to ℄M - 154	W - 169
VENT (1)	GLASS HEIGHT			H - 169	OF to ℄T - 154	OF to ℄T - 154	℄T to ℄T - 139	H - 169	H - 169	OF to ℄T - 154	H - 169	OF to ℄T - 154	H - 169	OF to ℄T - 154	OF to ℄T - 154	OF to ℄T - 154
VENT (2)	GLASS WIDTH								OF to ℄M - 154				℄M to ℄M - 139	℄M to ℄M - 139		
VENT (2)	GLASS HEIGHT								OF to ℄T - 154				OF to ℄T - 154	OF to ℄T - 154		

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









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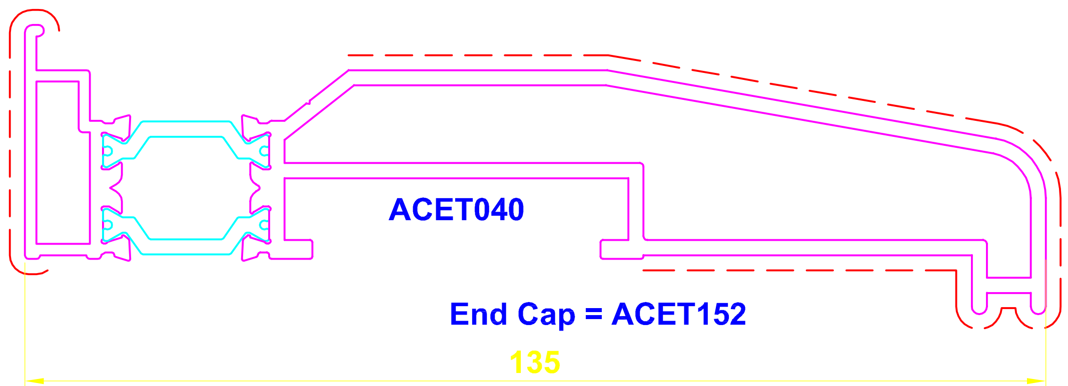
1/2/2007 Page 262

Bulletin

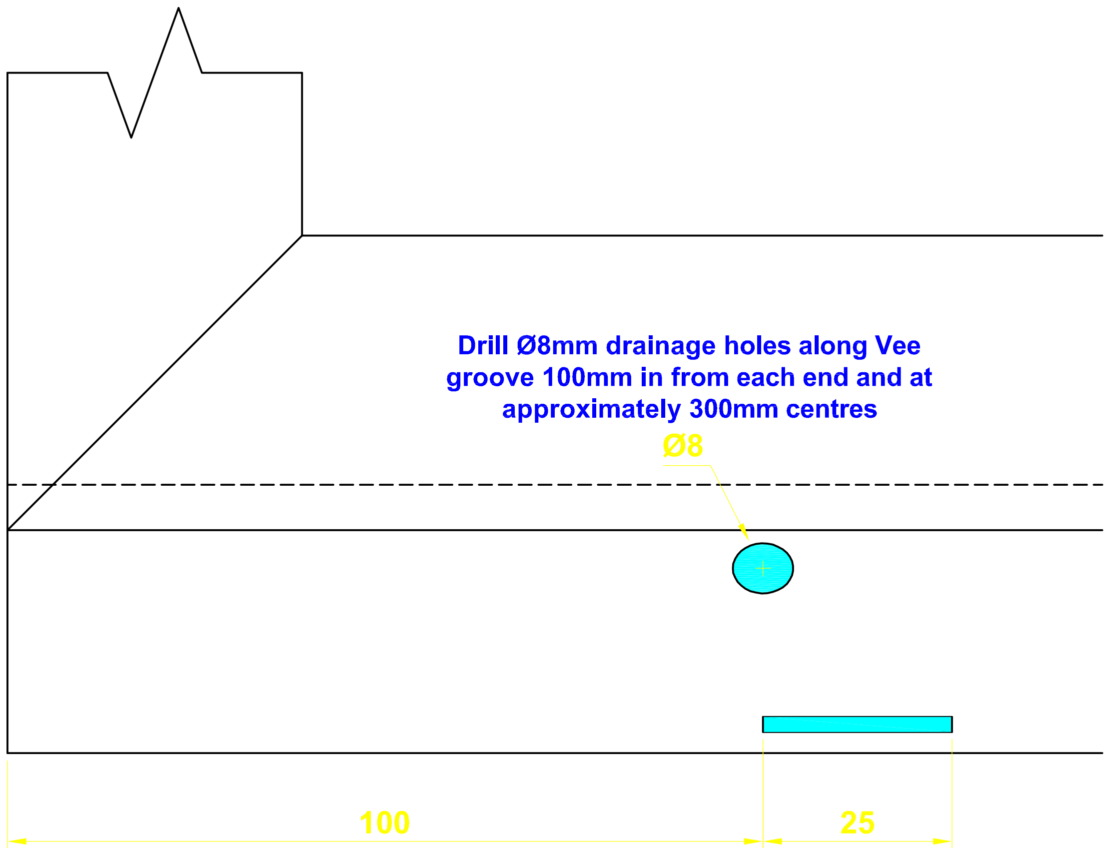
ETC152 - New 135mm Cill



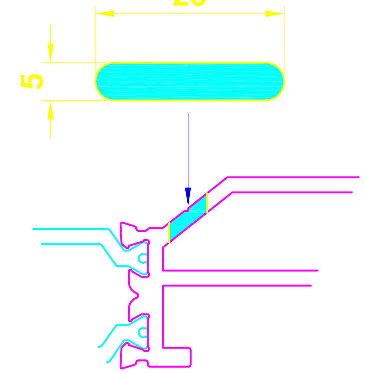
Number	Perim. mm	Mec. mm	Ix(cm4) wx(cm3)	Iy(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
ETC152	672	214	- ----- -	- ----- -	6.5	1	X	X	X	X	X

Suitable for use on window and door profiles up to 74.5mm wide. Anything deeper will need to have the legs packed out.

Suitable For
Alitherm Series
Visofold Series
Eco Futural
Visoline
Evolution

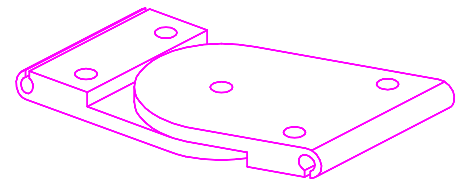


Drainage on Subcill



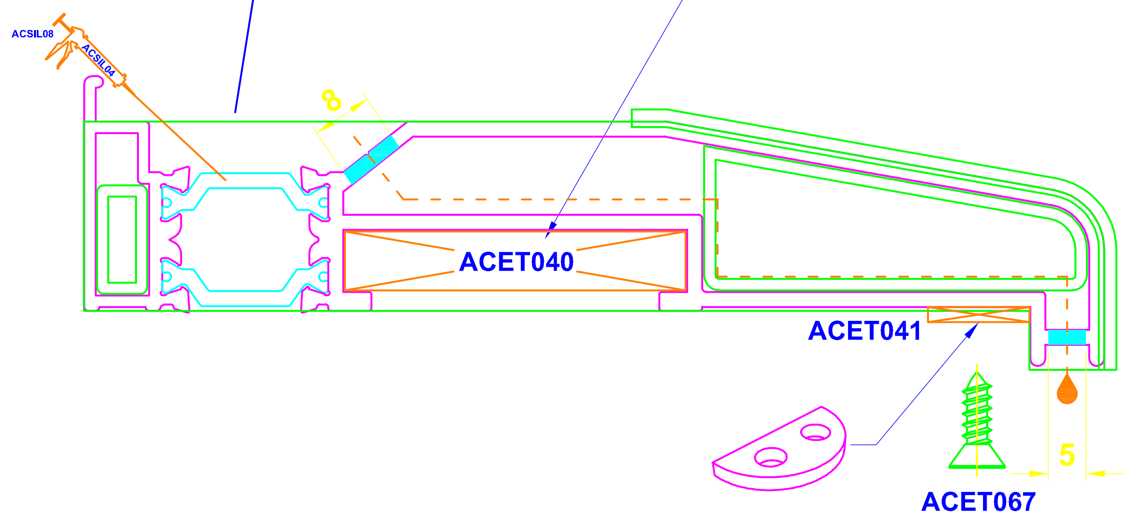
Alternative drainage method

ACET040
Variable Angle Cill Joiner



Use grub screws HEA018SSZ (supplied) to secure

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



Bulletin

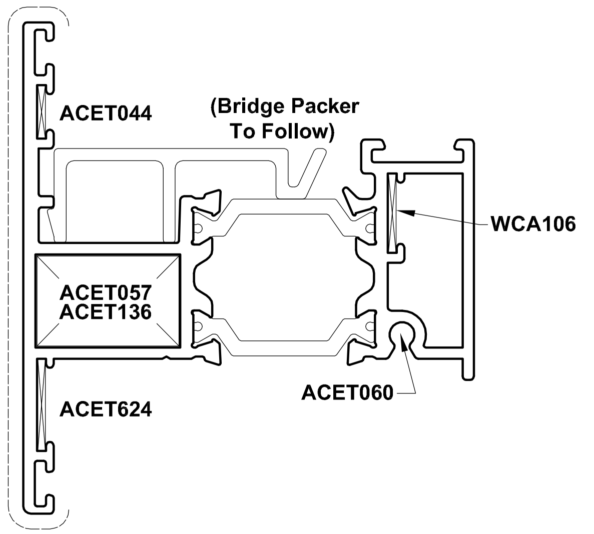
ETC624N Replaces ETC624

	Number	Perim. mm	Mec. mm	Ix(cm4) wx(cm3)	Iy(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
New	ETC624N	399	107	21.62 ----- 6.40	7.61 ----- 2.34	6.5	1	✓	✓	✓	✓	✓

ETC124 Replaces ETC124N

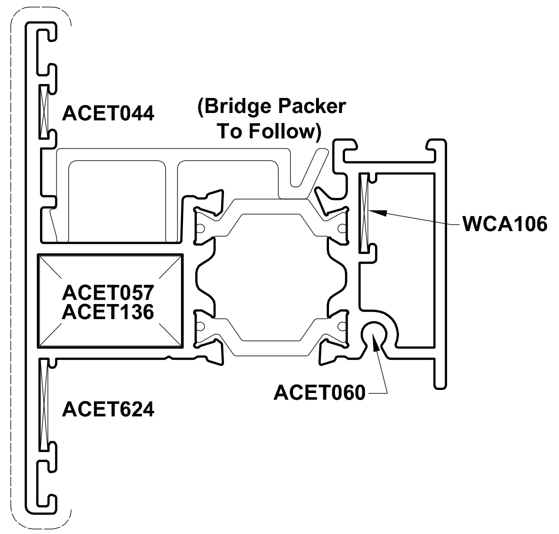
	Number	Perim. mm	Mec. mm	Ix(cm4) wx(cm3)	Iy(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
New	ETC124	399	107	18.41 ----- 5.89	7.65 ----- 2.36	6.5	1	✓	✓	✓	✓	✓

ETC624N



Crimping Tooling:
Vee Block = ACET987
Punches = ACET999
Crimper = WUT024HSZA
Punch Tool:
ACET922

ETC124

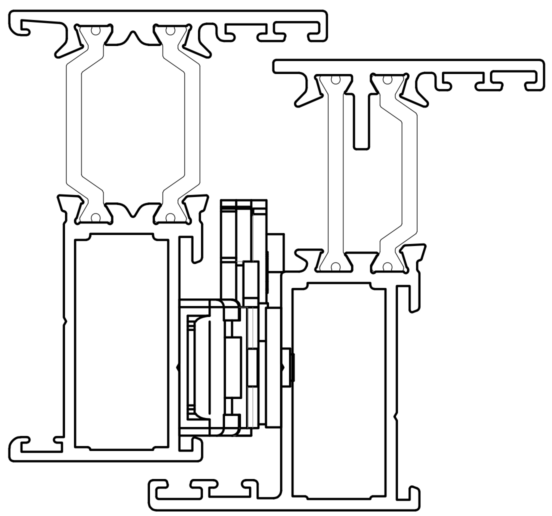


Crimping Tooling:
Vee Block = ACET135
Punches = ACET904
Crimper = WUT024HSZA
Punch Tool:
ACET922

Bulletin

ACETME13
13mm Stack Egress Hinge

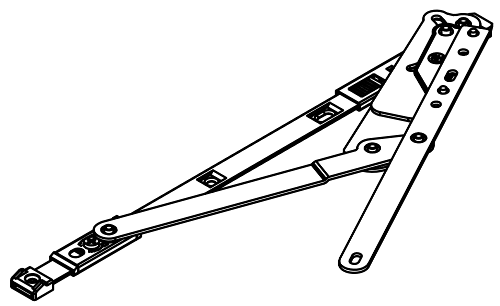
Alitherm 47
Alitherm 47 Heritage
Alitherm 55 (ETC122 only)
Alitherm 300
Alitherm 600 (ETC622 only)
Alitherm 800
Evolution



Notification of change to supplier of egress/easy clean friction hinges to be implemented 20th October 2014.

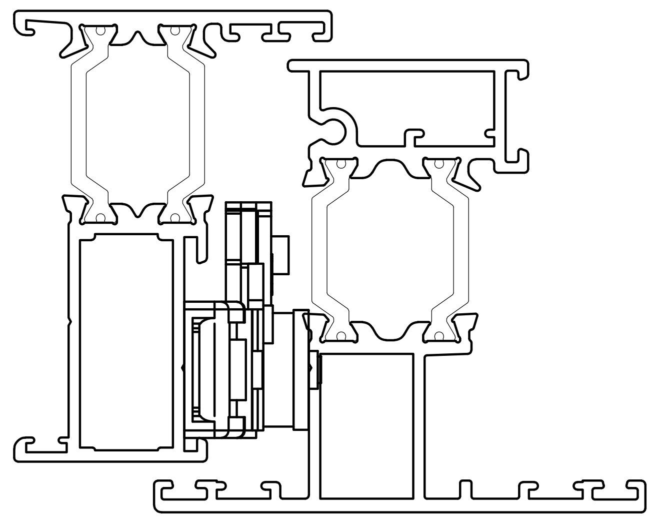
The benefits of the new hinges are:

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



ACETME16
16mm Stack Egress Hinge

Alitherm 55 (Except ETC122)
Alitherm 600 (Except ETC622)
Eco Futural Casement



New

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

Superseded

ACINDESH12	Egress	22	300	600	-
ACINDESH16		24	400	700	-

Jig = ACETME93

New

Side Hung	Type of Hinge / Stay	Max. Vent Weight (kgs)	Width Minimum	Width Maximum	Typical Height
ACETME16	Egress	40	400	900	-

Superseded

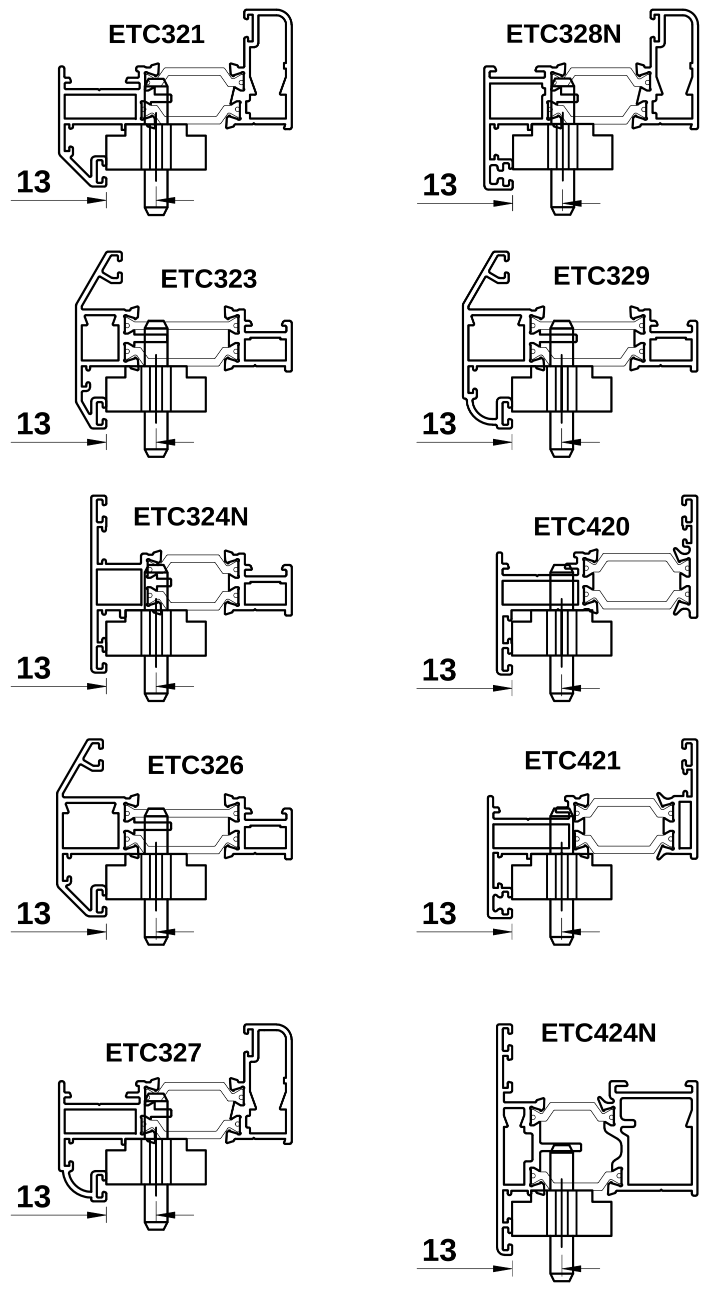
ACETDESH12	Egress	22	300	600	-
ACETDESH16		24	400	700	-

Jig = ACETME96

Do Not Scale From This Drawing

Bulletin

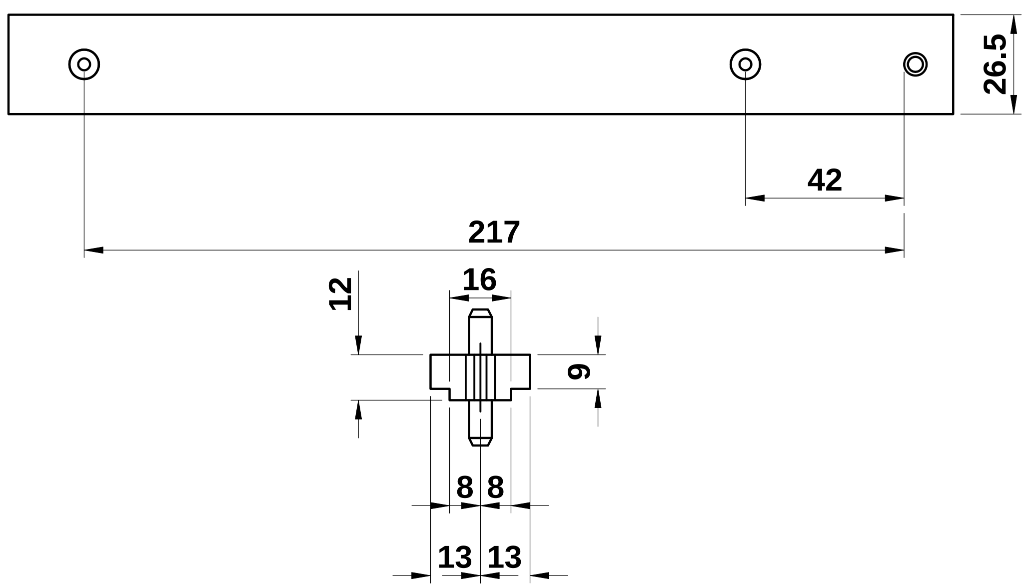
Alitherm 300



ACETME13
13mm Stack Egress Hinge

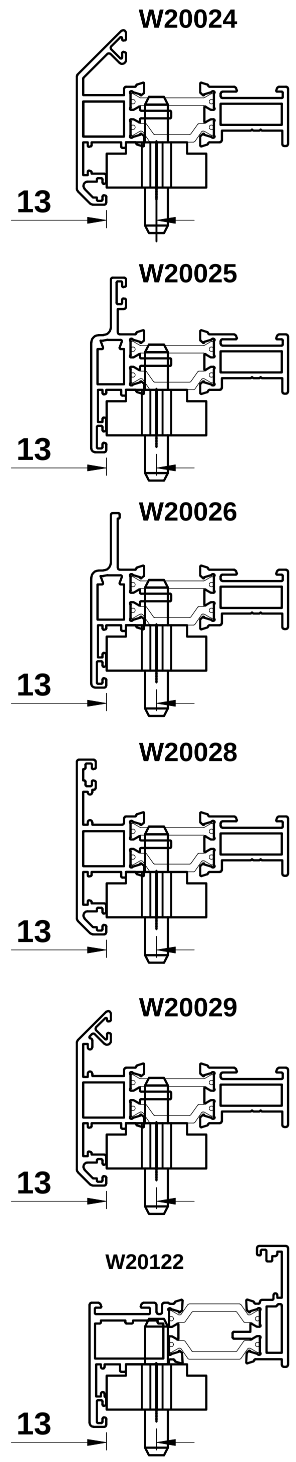
Alitherm 47 (not shown)
Alitherm 47 Heritage (shown)
Alitherm 55-ETC122 (not shown)
Alitherm 300 (shown)
Alitherm 600-ETC622 (not shown)
Alitherm 800 (shown)
Evolution (not shown)

Jig = ACETME93

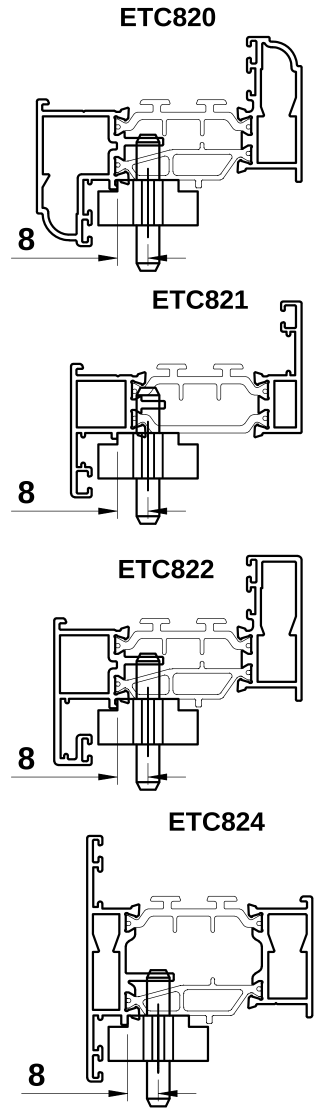


Vent Sizes 450mm or Smaller to be Reduced by 2mm

Alitherm 47 Heritage



Alitherm 800

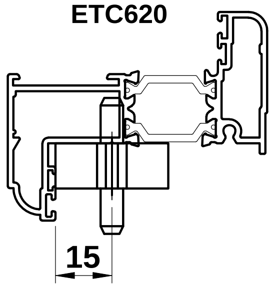


Do Not Scale From This Drawing

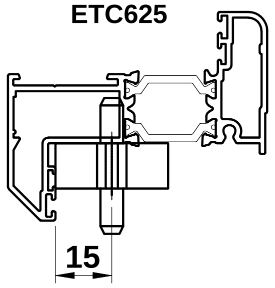
Bulletin

Alitherm 600

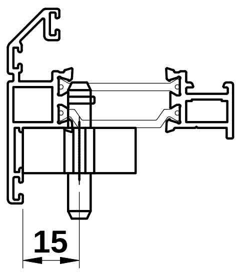
ETC620



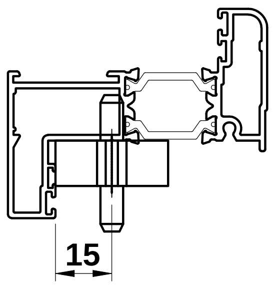
ETC625



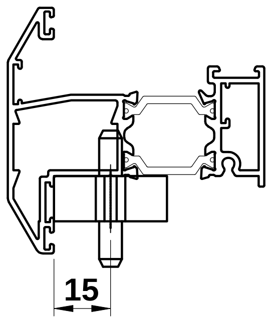
ETC621



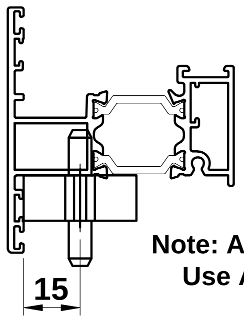
ETC627



ETC623



ETC624

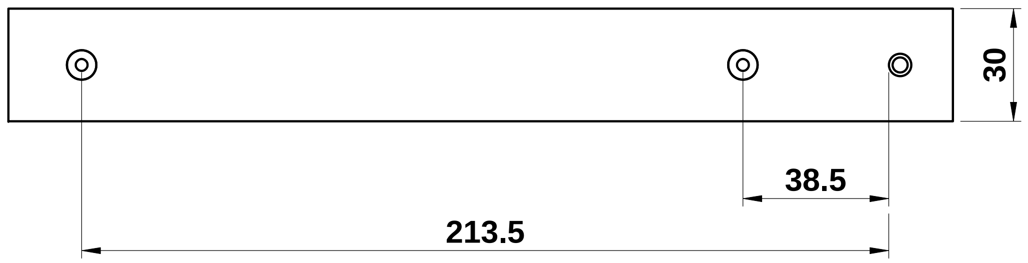


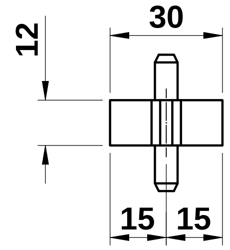
Note: ACETME96 Jig is not compatible with ETC622 or ETC122.
Use ACETME93 to mark the hole positions in the vee groove.

ACETME16
16mm Stack Egress Hinge

Alitherm 55 (not shown)
Alitherm 600 (shown)
Eco Futural Casement (shown)

Jig = ACETME96

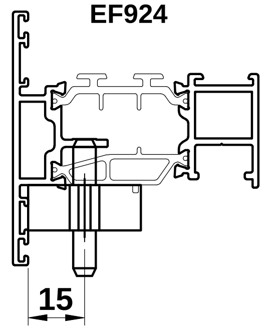




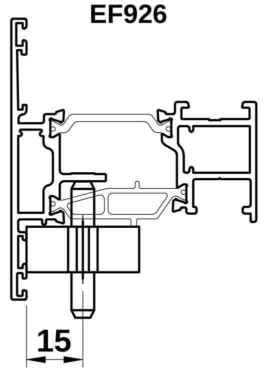
Vent Sizes 450mm or Smaller to be Reduced by 2mm

Eco Futural Casement

EF924

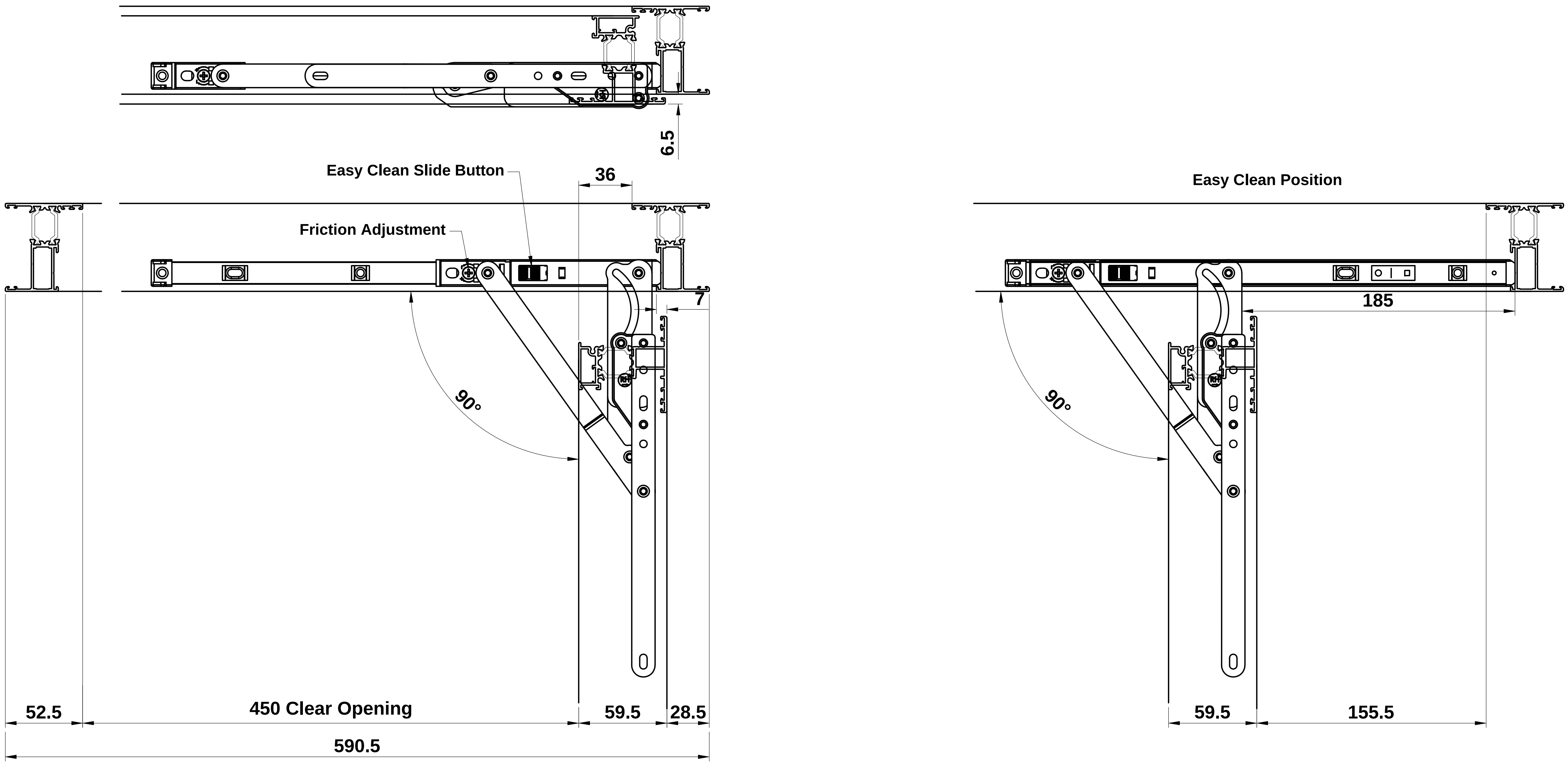


EF926



Bulletin

Example Opening Detail

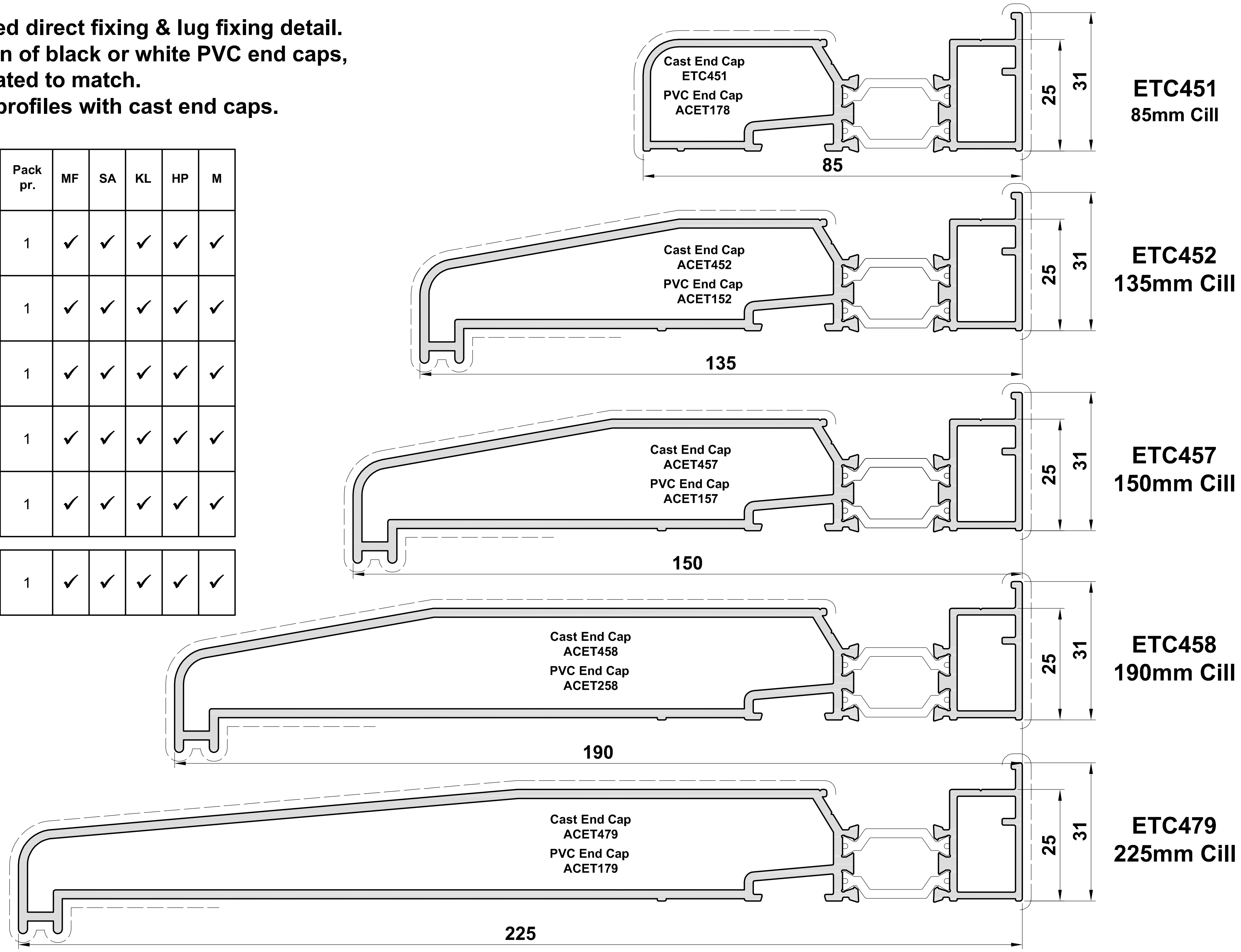


For further information regarding clear openings, please see the Smart Systems' White Paper Document B

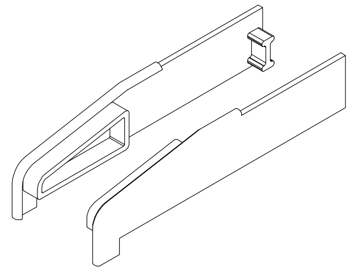
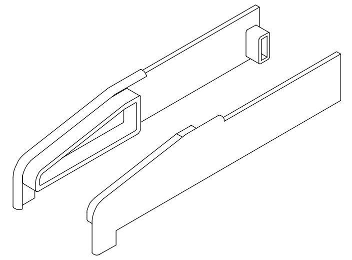
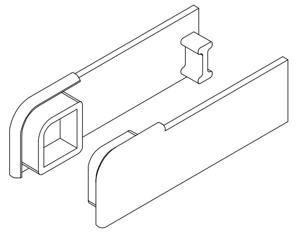
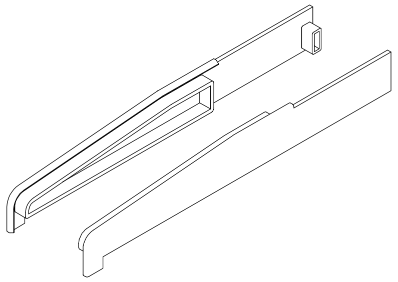
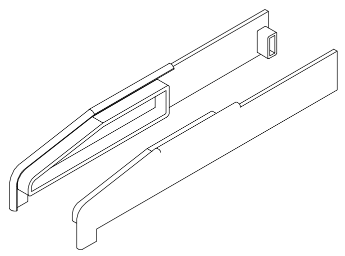
Do Not Scale From This Drawing

**New sub cills designed to allow an improved direct fixing & lug fixing detail.
ETC451, 452, 457, 458 & 479 offer the option of black or white PVC end caps, or cast end caps which may be powder coated to match.
ETC478 is a new 300mm sub cill for wider profiles with cast end caps.**

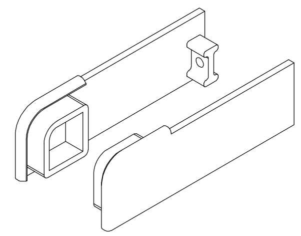
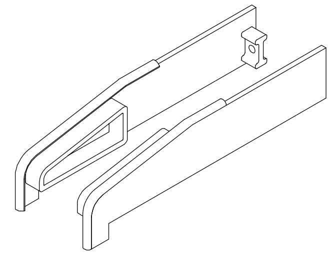
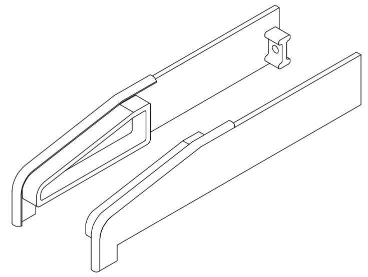
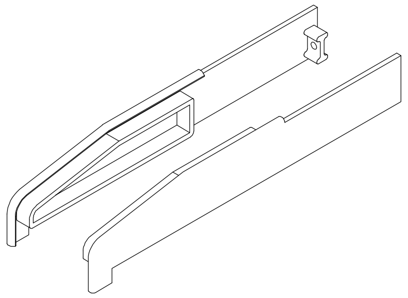
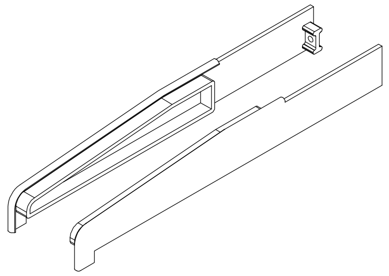
	Number	Perim. mm	Mec. mm	Ix(cm4) wx(cm3)	Iy(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
New	ETC451	304	109	32.44 ----- 7.29	3.46 ----- 2.79	6.5	1	✓	✓	✓	✓	✓
New	ETC452	414	197	122.46 ----- 18.03	6.01 ----- 3.34	6.5	1	✓	✓	✓	✓	✓
New	ETC457	444	212	163.27 ----- 21.60	6.79 ----- 3.73	6.5	1	✓	✓	✓	✓	✓
New	ETC458	524	252	313.62 ----- 32.63	8.87 ----- 4.79	6.5	1	✓	✓	✓	✓	✓
New	ETC479	594	287	501.64 ----- 44.04	9.72 ----- 5.34	6.5	1	✓	✓	✓	✓	✓
Available Soon	ETC478	736	314	1410.74 ----- 87.73	16.30 ----- 8.62	5	1	✓	✓	✓	✓	✓



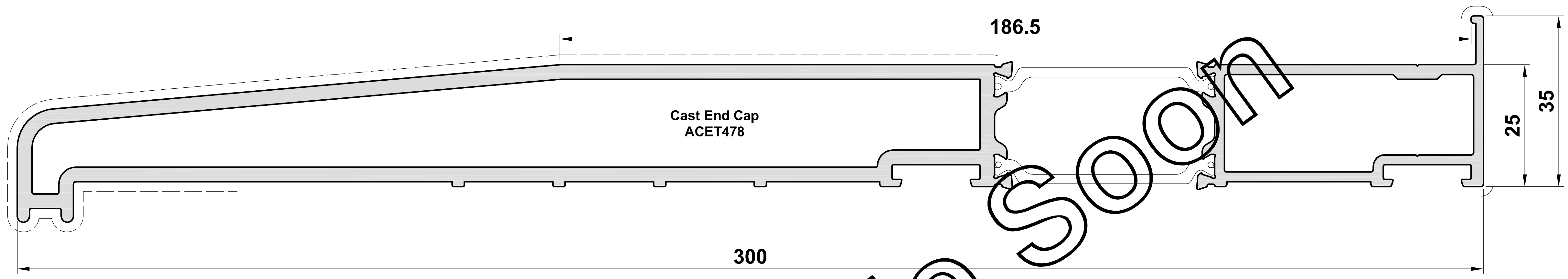
PVC End Caps

	**ACET152** PVC Cill End Cap	10	pairs	ETC452	MF	KL	HP	W ✓	Z ✓
	**ACET157** PVC Cill End Cap	10	pairs	ETC457	MF	KL	HP	W ✓	Z ✓
	**ACET178** PVC Cill End Cap	10	pairs	ETC451	MF	KL	HP	W ✓	Z ✓
	**ACET179** PVC Cill End Cap	10	pairs	ETC479	MF	KL	HP	W ✓	Z ✓
	**ACET258** PVC Cill End Cap	10	pairs	ETC458	MF	KL	HP	W ✓	Z ✓

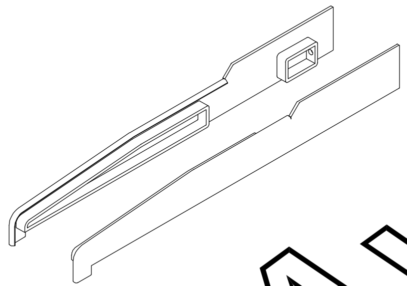
Cast End Caps

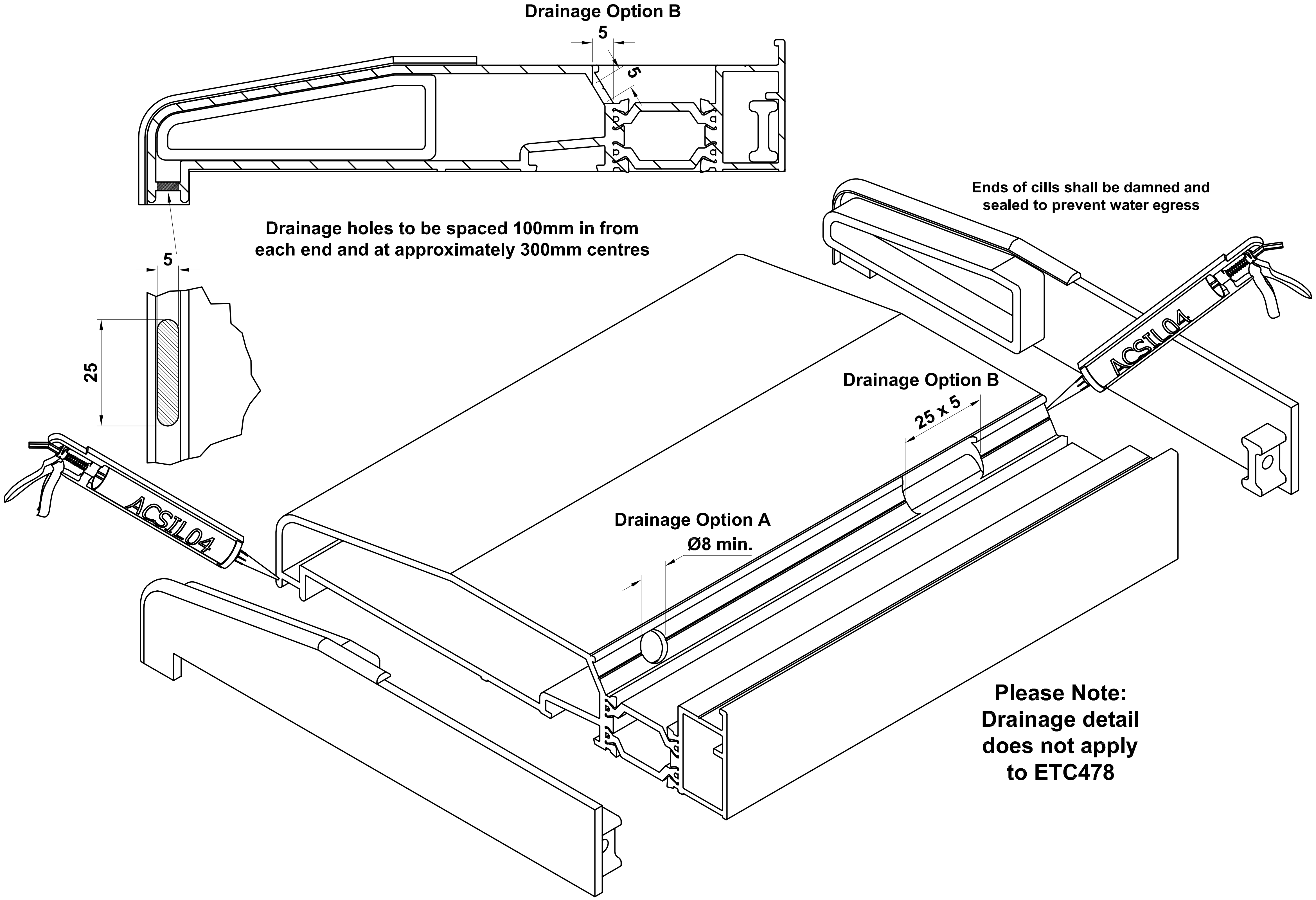
	**ACET451** Cast Cill End Caps	1	pair	ETC451	MF ✓	KL ✓	HP ✓	W ✓	Z ✓
	**ACET452** Cast Cill End Caps	1	pair	ETC452	MF ✓	KL ✓	HP ✓	W ✓	Z ✓
	**ACET457** Cast Cill End Caps	1	pair	ETC457	MF ✓	KL ✓	HP ✓	W ✓	Z ✓
	**ACET458** Cast Cill End Caps	1	pair	ETC458	MF ✓	KL ✓	HP ✓	W ✓	Z ✓
	**ACET479** Cast Cill End Caps	1	pair	ETC479	MF ✓	KL ✓	HP ✓	W ✓	Z ✓

Note: ETC478 is not designed for concealed drainage

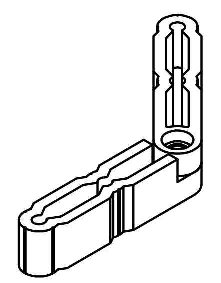


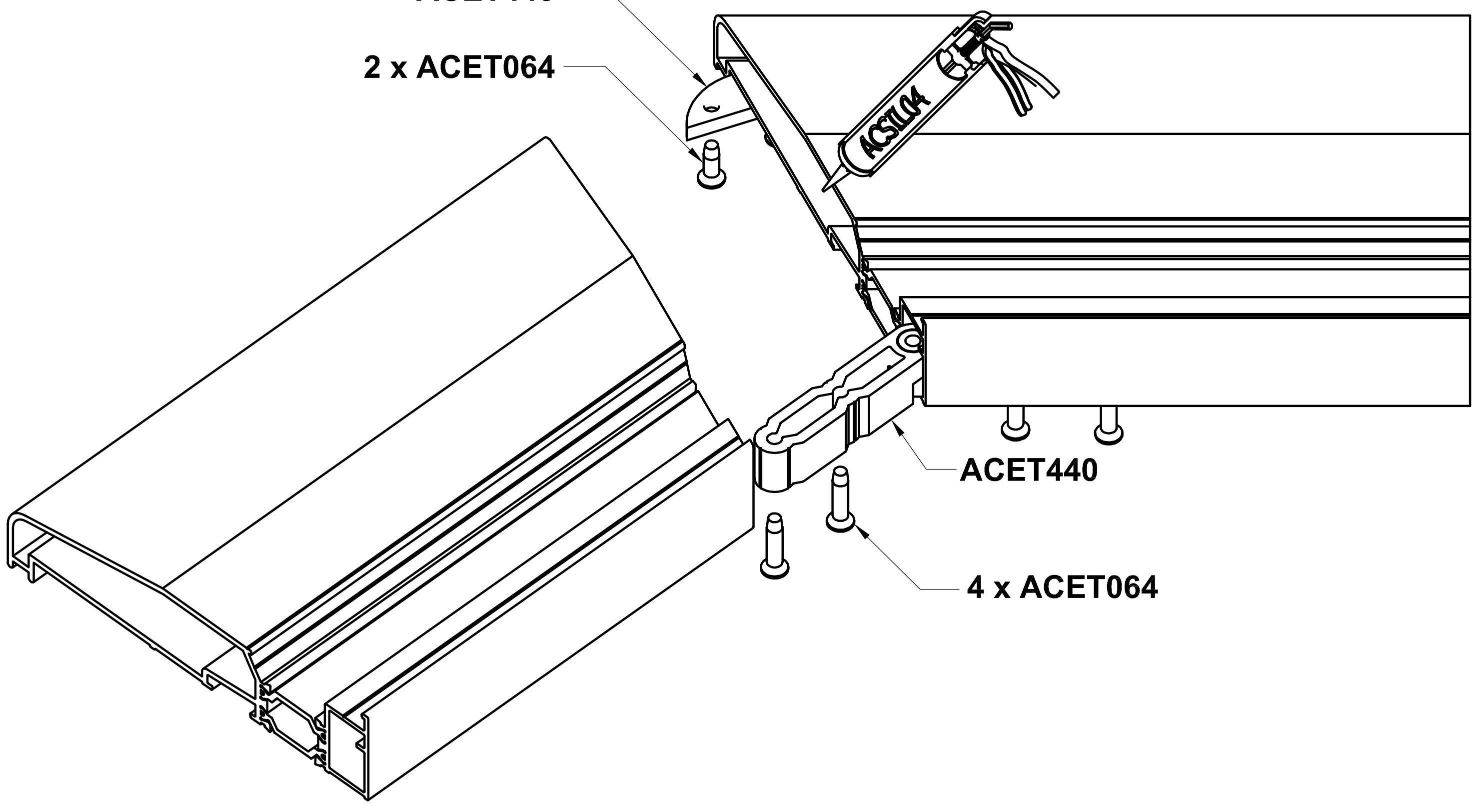
ETC478
300mm Cill

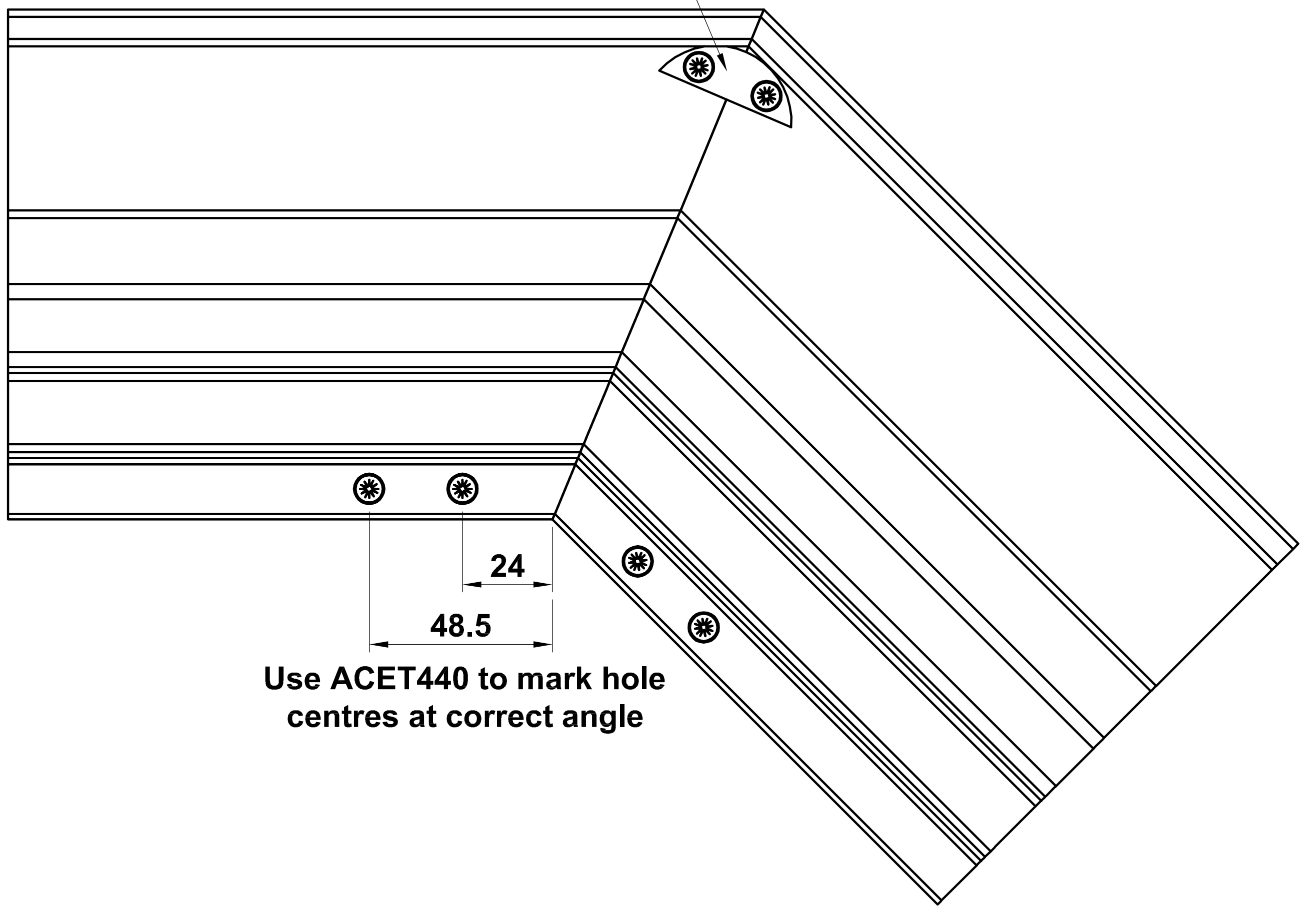
	**ACET478** **Cast Cill End Cap**	**1**	**pair**	**ETC478**	MF ✓ KL ✓ HP ✓ W ✓ Z ✓



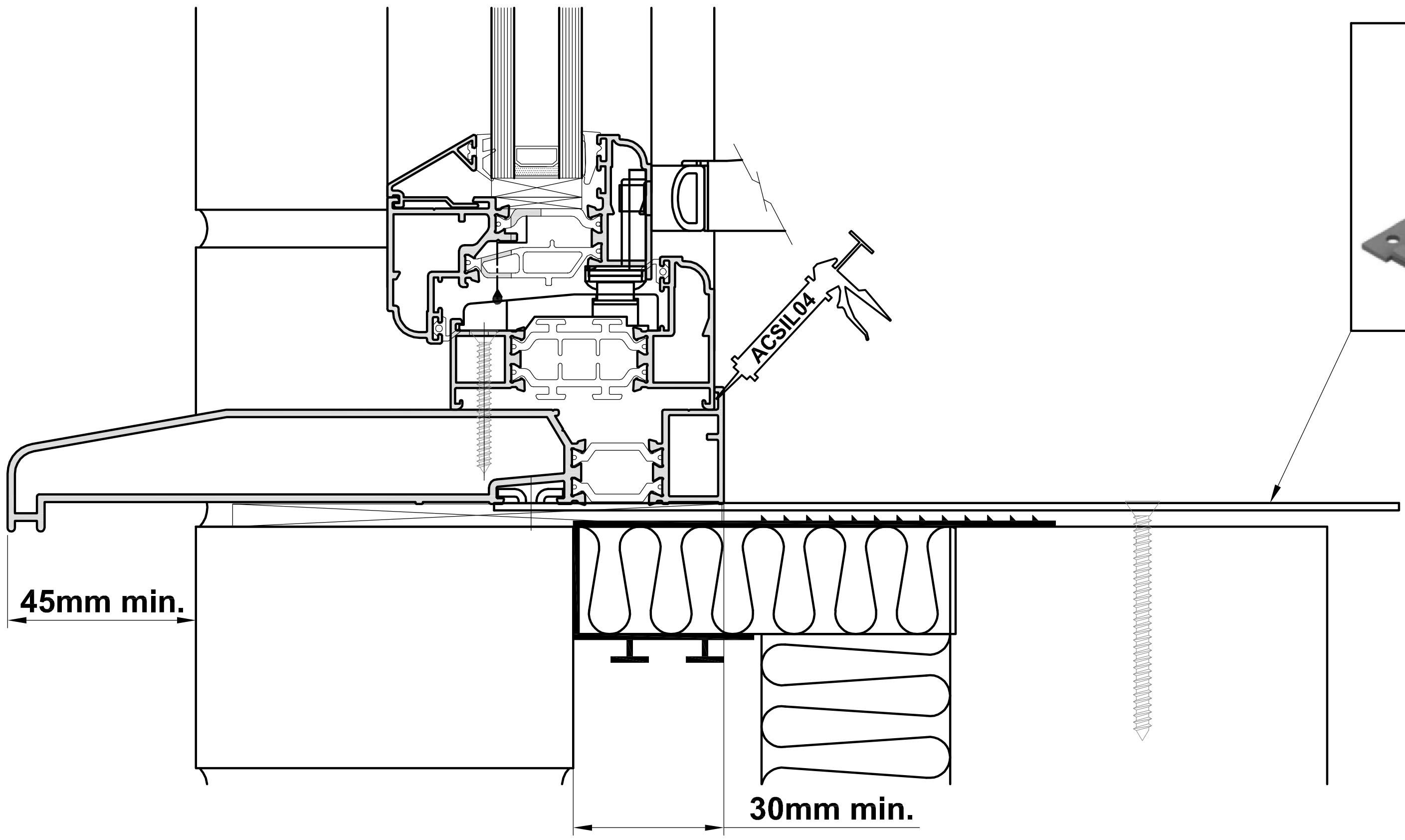
**Please Note:
Drainage detail
does not apply
to ETC478**

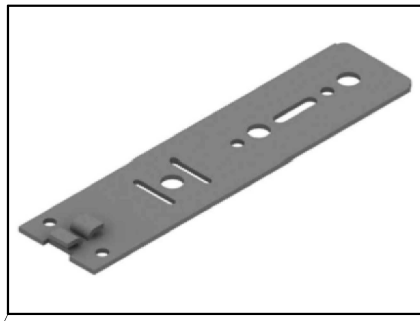
	**ACET440** 90°-180° Variable angle bracket	10	pack	ETC451 ETC452 ETC457 ETC458 ETC479	MF KL HP W Z	✓





Example Lug Fixing Detail



	ACUN23X Screw Fixing Lug ACUN230: B = 160MM ACUN232: B = 240MM ACUN233: B = 280MM	100	Pack	ETC451 ETC452 ETC457 ETC458 ETC478 ETC479	MF KL HP W Z	✓

Example Direct Fixing Detail