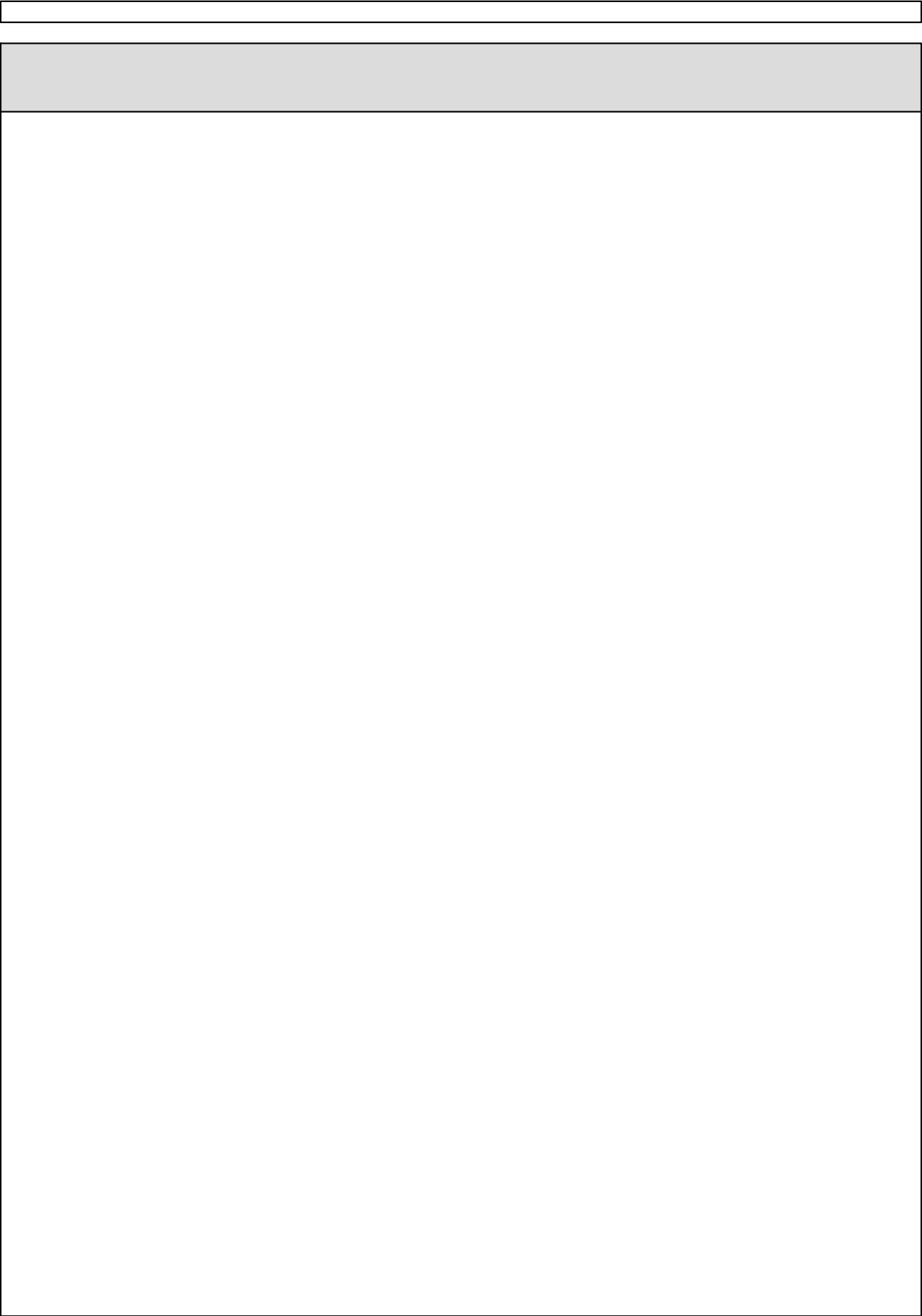


Main Index

INT Index	Index	A01
A INT	Profiles	
	Specification Pages.....	A03 - A05
	Technical Information.....	A06 - A10
	Scale Profile Drawings.....	A11 - A26
B INT	Accessories	
	Photos & Drawings.....	B03 - B24
C INT	Sections	
	Scale Elevations.....	C03 - C42
D INT	Statics	D03 - D10
E INT	Construction Drawings	
	Corner Joint Details.....	E03
	Crimping Details.....	E04 - E05
	Transom Details.....	E06 - E07
	Deep Bottom Rail Detail.....	E08
	Hinged Door Lock Preparation.....	E09
	Pivot Door Lock Preparation.....	E10
	Open In Door Hinge Details.....	E11
	Open In Double Door Details.....	E12 - E13
	Sliding Door - Roller Fixing.....	E14
	Pivot Door - ACSIN201 Preparation & Fixing.....	E15 - E16
	Glazing Details.....	E17 - E18
F INT	Sawing Tables	
	Fixed Screen.....	F03
	Hinged Door.....	F04 - F08
	Sliding Door.....	F09 - F12
	Pivot Door.....	F13



Specification

GENERAL DESCRIPTION

Our "AluSpace Interior Screen" system is the perfect solution for dividing living spaces with a run through floor finish, allowing high levels of natural light to flood between rooms and maximising the aesthetics.

The aluminium steel-look interior screens and doors provide an elegant, versatile and slim sightline design suitable for both traditional and modern homes. Ideal for renovation works, but exceptional also for contemporary residential new builds and commercial projects.

Manufactured to bespoke requirements and offered as a sliding, pivoting or hinged door as well as a fixed interior screen available in a huge range of colours.

PROFILE SPECIFICATION

The door frames are constructed of aluminium alloy extrusion to BS EN 755-9 and BS EN 12020, extruded to 6063 T6 alloy.

RECOMMENDED DESIGN DOOR LIMITATIONS

Hinged Doors

Door Sashes:

Maximum Width: 900mm
Minimum Width: 400mm
Maximum Height: 2200mm
Maximum Weight: 60kg

Sliding Doors

Door Sashes:

Maximum Width: 1200mm
Minimum Width: 400mm
Maximum Height: 2500mm
Maximum Weight: 100kg (with 2 x ACINT313 rollers)

Pivot Doors

Door Sashes:

Maximum Width: 2000mm
Minimum Width: 400mm
Maximum Height: 2500mm
Maximum Weight: 100kg

Fixed Screens:

Please see table on page D07.

Fixed screen sizes are based on a coupler limit at 0.8kN/m.
Size limits can vary depending on application and the category of building.
Please refer to Approved Document K and CWCT for further information on the required loading for your project.

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

Specification

GENERAL MANUFACTURING

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

The corners are joined using crimping cleats to form a cold forged corner joint (made by deforming small slugs of metal into the groove of the corner cleat).

The ends of transoms are profiled to fit the frame and fixed using self-tapping screws with a small joint sealant.

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

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

OUTER FRAME MANUFACTURING INFORMATION

The outer frame members are cut with 45° mitred ends to the overall size required, measured to the longest point of the metal.

Prior to corner crimping the centre line position of any transoms should be marked on the outer frame members. Where the transom runs right through, it should be marked out on both jambs in pairs to ensure accurate alignment of the sections.

Using the marked centre line, drill the transom fixing holes using a 4.5mm or 5mm dia. drill bit.

Corners are formed by coating the cut faces to be joined with a suitable small gap sealer. Into the mitred corner insert the cleat glue and the required corner cleats and, where required, the aluminium corner chevrons. The two mitred ends are then brought together and crimped. The small gap sealer ensures a permanent joint, keeps the joint tidy and allows joint movement. After crimping the corner joint, special care should be taken to ensure any excess sealer is removed from painted surfaces.

Transoms are cut with square ends to the sizes calculated on the cutting formula sheets. The ends are then profiled to allow them to fit into the outer frame. Special tooling is available on request to profile the end of transom.

Prior to fixing of transoms, smear the cut ends with a suitable small gap sealer. After fixing, special care should be taken to ensure any excess is cleared from painted surfaces.

Specification

SASH

Corners are formed by coating the cut faces to be joined with a suitable gap sealer. In the mitred corner insert the cleat glue and the required corner cleats and chevrons. The mitred ends are then brought together and crimped. The small gap sealer ensures a permanent joint, keeps the joint tidy and allows joint movement. Care should be taken to ensure any excess sealer is removed from the surfaces.

GLAZING

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

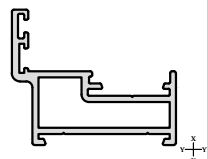
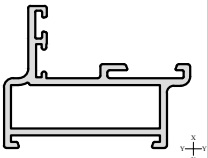
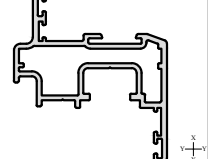
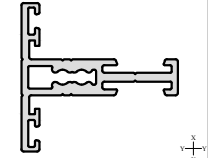
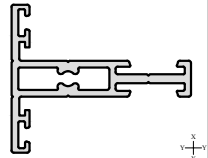
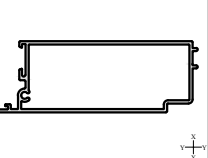
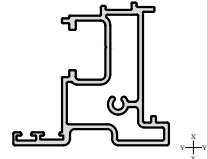
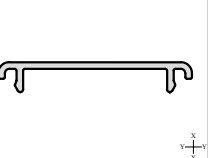
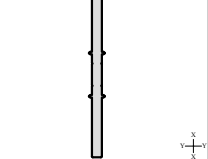
Where ACINT230, ACINT232 & ACINT430 transom brackets are used, the horizontal beads must be machined over the brackets. Please see pages E06 & E07 for further details.

Glazing can be 6mm, 8mm or 18mm by selecting the relevant bead & gasket.

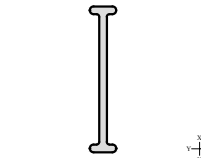
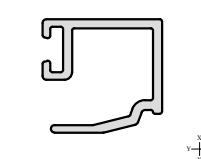
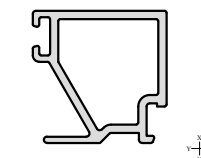
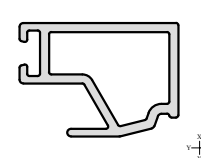
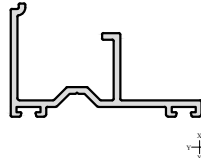
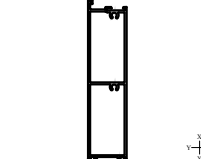
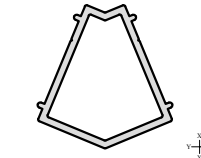
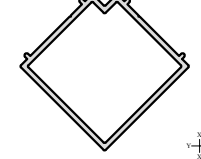
INSTALLATION

Please refer to relevant parts of BS 8213-4 for installation guidance. All fixings shall be suitable for the structure and application. Fixings shown in this manual are for illustration only.

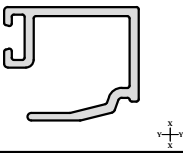
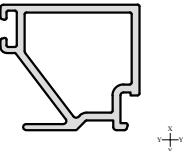
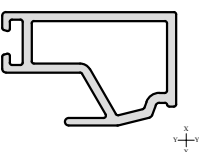
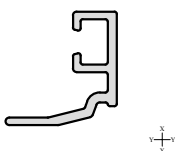
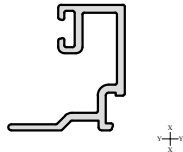
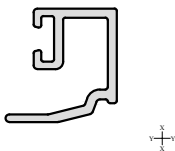
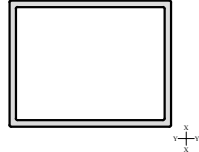
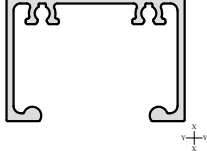
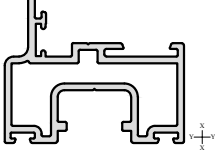
PROFILES : TECHNICAL INFORMATION

Number	Picture	Page	Perim. mm	Mec. mm	Ix(cm4) wx(cm3)	Iy(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
INT210		A11	196	61	4.04 — 1.83	1.42 — 1.18	6.5	1	✓		✓	✓	
INT218		A11	189	62	3.19 — 1.41	1.16 — 0.99	6.5	1	✓		✓	✓	
INT220		A11	286	160	8.56 — 3.27	3.89 — 1.64	6.5	1	✓		✓	✓	
INT230		A12	199	50	2.38 — 1.04	0.82 — 0.50	6.5	1	✓		✓	✓	
INT232		A12	209	50	3.43 — 1.33	0.83 — 0.50	6.5	1	✓		✓	✓	
INT238		A12	304	176	8.94 — 4.91	43.12 — 8.68	6.5	1	✓		✓	✓	
INT249		A12	255	84	6.97 — 2.64	4.46 — 2.25	6.5	1	✓		✓	✓	
INT250		A13	90	40	- — -	- — -	6.5	1	✓		✓	✓	
INT255		A13	224	148	50.11 — 10.02	0.19 — 0.41	6.5	1	✓		✓	✓	
								A = Outside B = Inside		MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour M = Dual Colour			

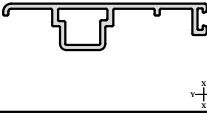
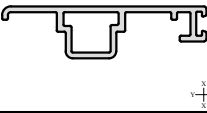
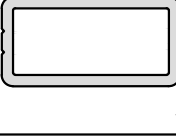
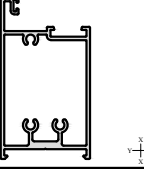
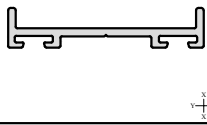
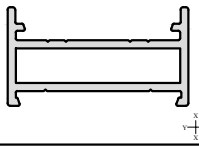
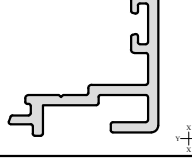
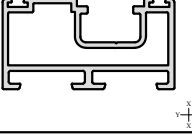
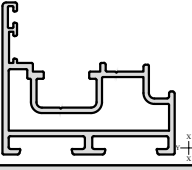
PROFILES : TECHNICAL INFORMATION

Number	Picture	Page	Perim. mm	Mec. mm	lx(cm4) wx(cm3)	ly(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
INT256		A13	94	14	2.30 — 1.31	0.08 — 0.16	6.5	1	✓		✓	✓	
INT257		A13	71	-	0.46 — 0.33	0.00 — 0.01	6.5	1	✓				
INT270		A16	108	29	- — -	- — -	6.5	1	✓		✓	✓	
INT271		A16	107	37	- — -	- — -	6.5	1	✓		✓	✓	
INT272		A16	89	34	- — -	- — -	6.5	1	✓		✓	✓	
INT274		A14	199	25	2.66 — 1.01	0.65 — 0.85	6.5	1	✓		✓	✓	
INT275		A14	426	292	15.83 — 8.95	152.95 — 20.56	6.5	1	✓		✓	✓	
INT280		A15	133	54	3.51 — 1.66	2.60 — 1.38	6.5	1	✓		✓	✓	
INT281		A15	175	95	7.04 — 2.45	7.59 — 2.64	6.5	1	✓		✓	✓	
								A = Outside B = Inside		MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour M = Dual Colour			

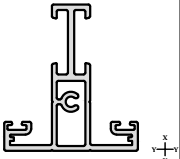
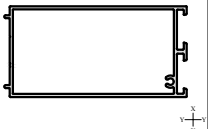
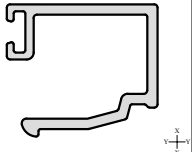
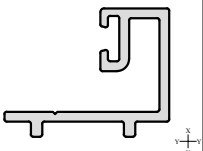
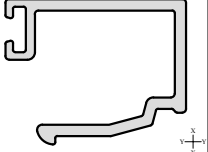
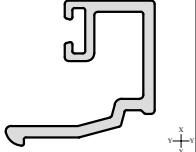
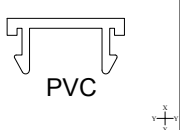
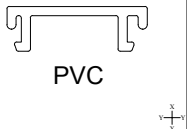
PROFILES : TECHNICAL INFORMATION

Number	Picture	Page	Perim. mm	Mec. mm	Ix(cm4) wx(cm3)	Iy(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
INT290		A17	112	31	- -	- -	6.5	1	✓		✓	✓	
INT291		A17	110	39	- -	- -	6.5	1	✓		✓	✓	
INT292		A17	93	36	- -	- -	6.5	1	✓		✓	✓	
INT293		A18	79	19	- -	- -	6.5	1	✓		✓	✓	
INT294		A18	124	27	- -	- -	6.5	1	✓		✓	✓	
INT295		A18	98	24	- -	- -	6.5	1	✓		✓	✓	
INT310		A19	177	128	12.23 — 4.89	8.28 — 4.25	6.5	1	✓		✓	✓	
INT312		A19	317	141	12.73 — 5.09	5.40 — 4.09	6.5	1	✓		✓	✓	
INT320		A19	233	70	4.68 — 2.21	2.10 — 1.58	6.5	1	✓		✓	✓	
								A = Outside B = Inside		MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour M = Dual Colour			

PROFILES : TECHNICAL INFORMATION

Number	Picture	Page	Perim. mm	Mec. mm	Ix(cm4) wx(cm3)	Iy(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
INT322		A20	149	82	2.56 — 0.98	0.17 — 0.50	6.5	1	✓		✓	✓	
INT323		A20	143	63	1.99 — 0.81	0.17 — 0.46	6.5	1	✓		✓	✓	
INT357		A20	70	-	0.20 — 0.34	0.62 — 0.53	6.5	1	✓				
INT410		A21	329	161	17.07 — 6.85	40.67 — 11.36	6.5	1	✓		✓	✓	
INT411		A21	124	22	1.53 — 0.79	0.02 — 0.07	6.5	1	✓		✓	✓	
INT412		A21	127	38	2.10 — 1.27	0.31 — 0.31	6.5	1	✓		✓	✓	
INT413		A21	120	31	0.41 — 0.27	0.27 — 0.36	6.5	1	✓		✓	✓	
INT418		A22	234	91	7.27 — 2.99	1.84 — 1.50	6.5	1	✓		✓	✓	
INT420		A22	274	166	8.22 — 3.00	3.27 — 2.29	6.5	1	✓		✓	✓	
								A = Outside B = Inside		MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour M = Dual Colour			

PROFILES : TECHNICAL INFORMATION

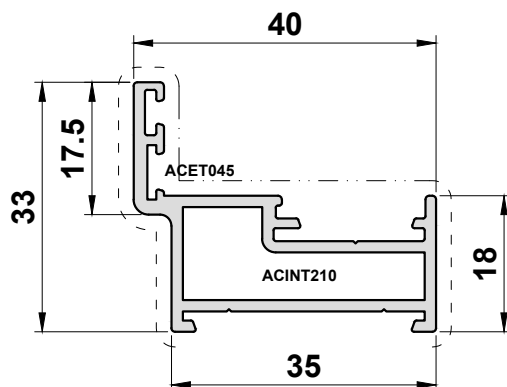
Number	Picture	Page	Perim. mm	Mec. mm	Ix(cm4) wx(cm3)	Iy(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
INT430		A22	295	73	6.56 — 2.16	3.18 — 1.52	6.5	1	✓		✓	✓	
INT438		A22	323	188	17.09 — 7.30	51.03 — 11.89	6.5	1	✓		✓	✓	
INT470		A23	136	38	- — -	- — -	6.5	1	✓		✓	✓	
INT471		A23	119	25	- — -	- — -	6.5	1	✓		✓	✓	
INT472		A24	140	40	- — -	- — -	6.5	1	✓		✓	✓	
INT473		A24	116	28	- — -	- — -	6.5	1	✓		✓	✓	
PCX15		A25	63	-	- — -	- — -	6.5	1	✓				
PCX41		A25	65	-	- — -	- — -	6.5	1	✓				
													
							A = Outside B = Inside		MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour M = Dual Colour				

Primary Visible Side

Secondary Visible Side

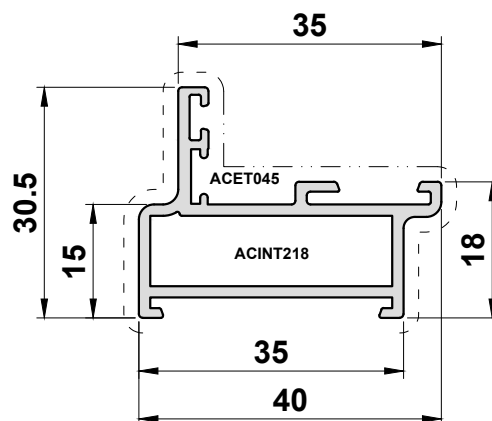
INT210

35mm Heritage Outer Frame



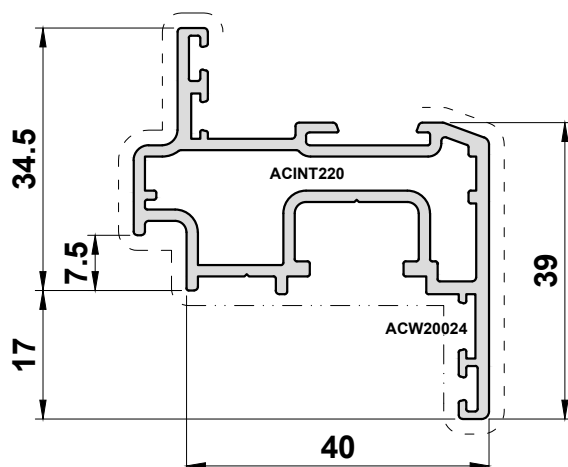
INT218

35mm Heritage Fixed Light



INT220

Heritage Sash



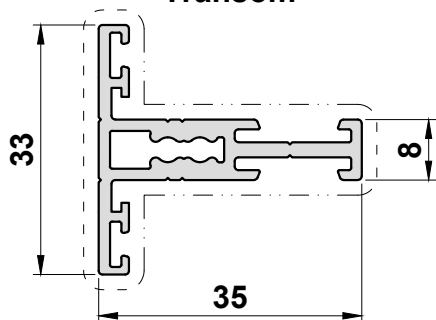
Scale 1:1

Primary Visible Side

Secondary Visible Side

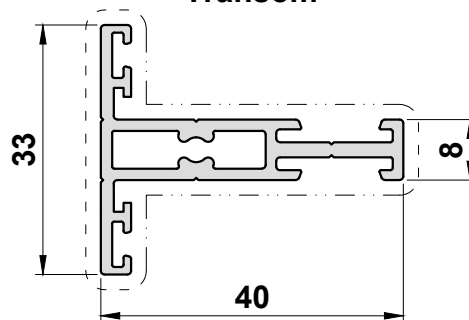
INT230

Transom



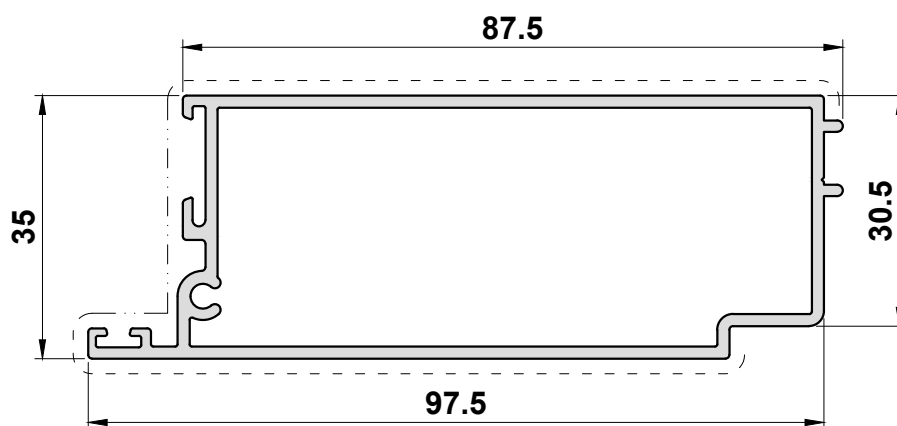
INT232

Transom



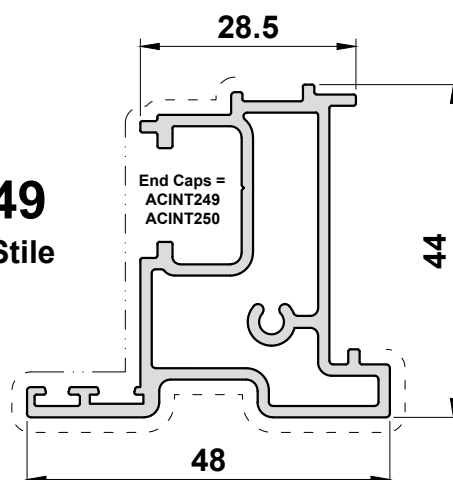
INT238

Door Lock Housing



INT249

Meeting Stile



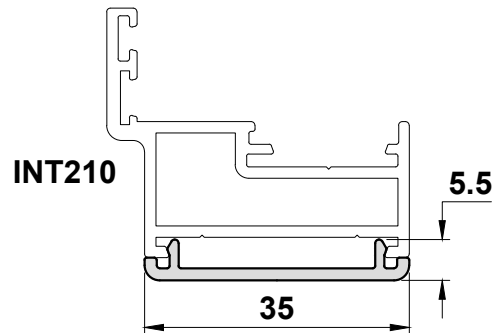
Scale 1:1

Primary Visible Side

Secondary Visible Side

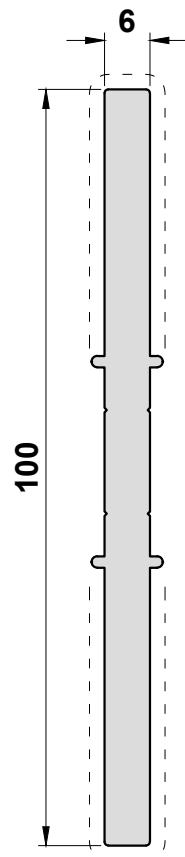
INT250

Outer Frame Cap



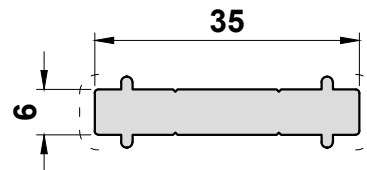
INT255

Vertical Coupler



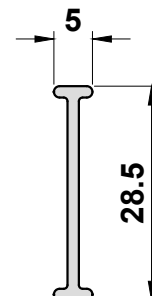
INT256

Horizontal Coupler



INT257

Concealed Coupler

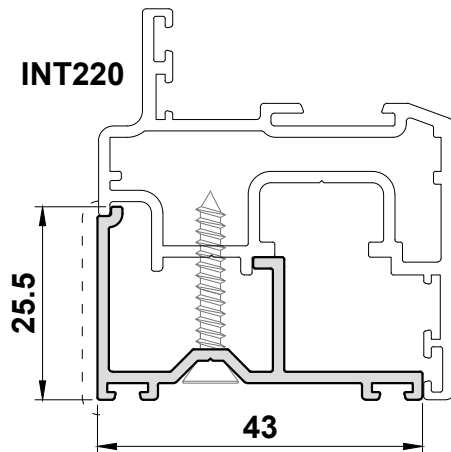


Scale 1:1

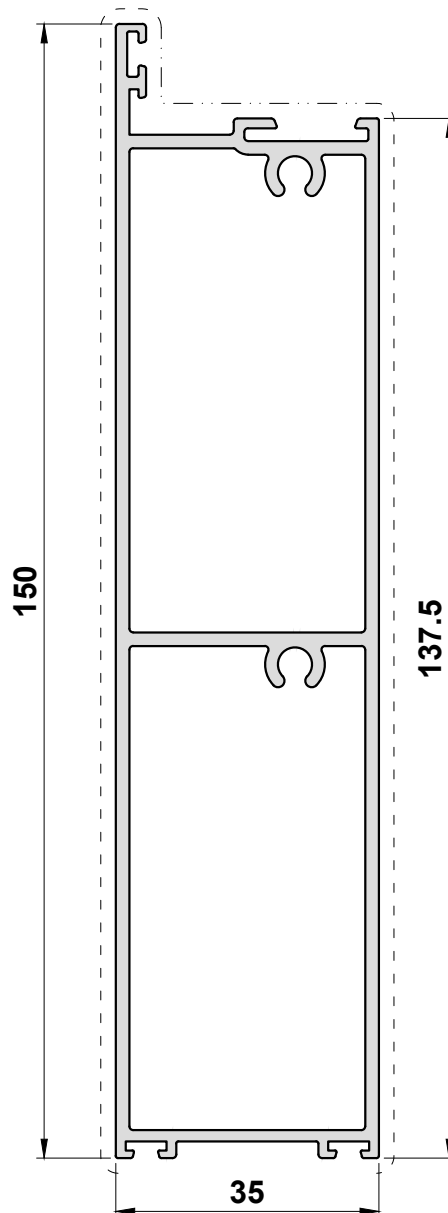
Primary Visible Side

Secondary Visible Side

INT274
Threshold Adaptor



INT275
Deep Bottom Rail



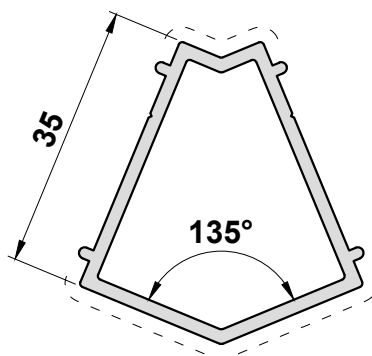
Scale 1:1

Primary Visible Side

Secondary Visible Side

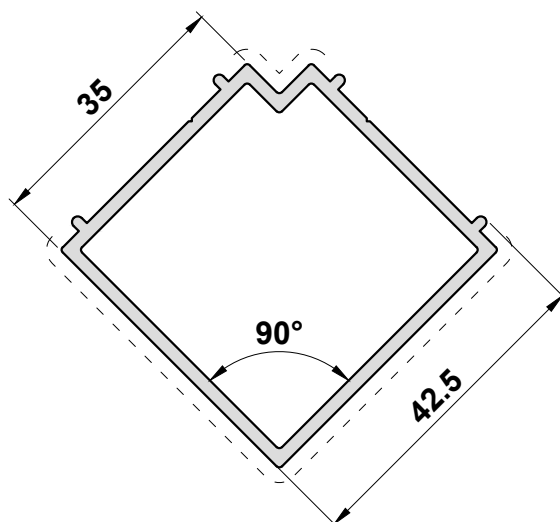
INT280

135° Bay Pole



INT281

90° Bay Pole



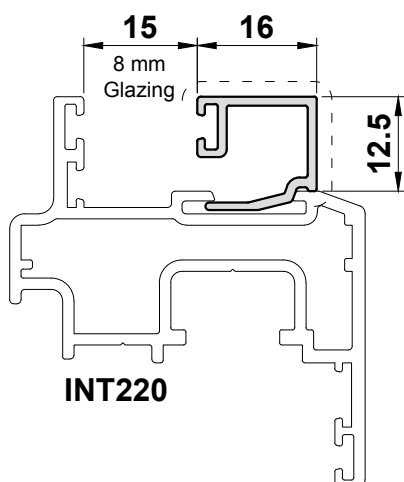
Scale 1:1

Primary Visible Side

Secondary Visible Side

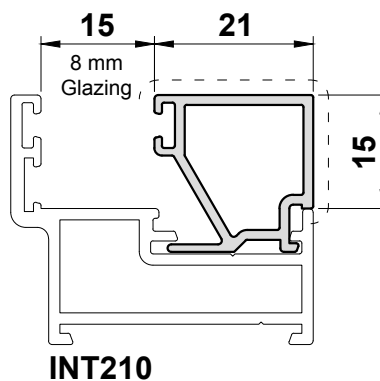
INT270

Square Bead



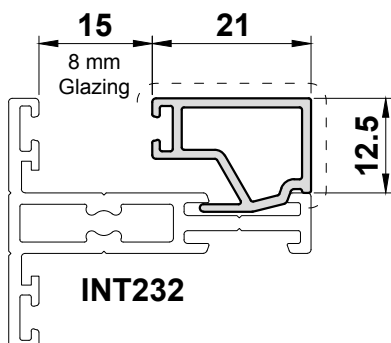
INT271

Square Bead



INT272

Square Bead



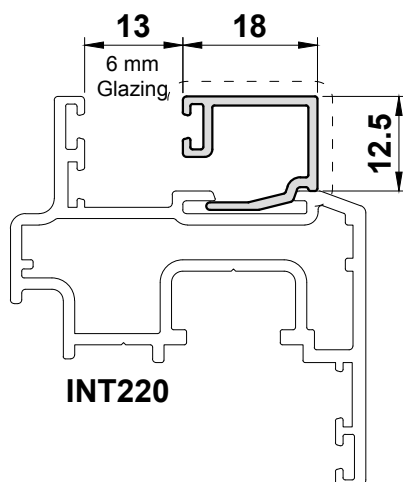
Scale 1:1

Primary Visible Side

Secondary Visible Side

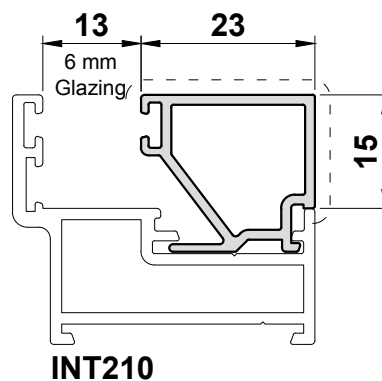
INT290

Square Bead



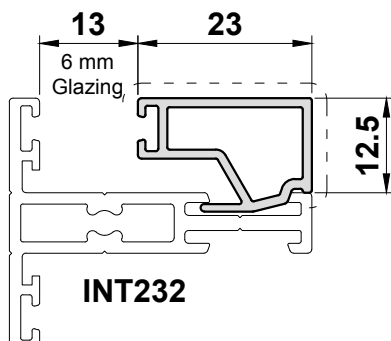
INT291

Square Bead



INT292

Square Bead



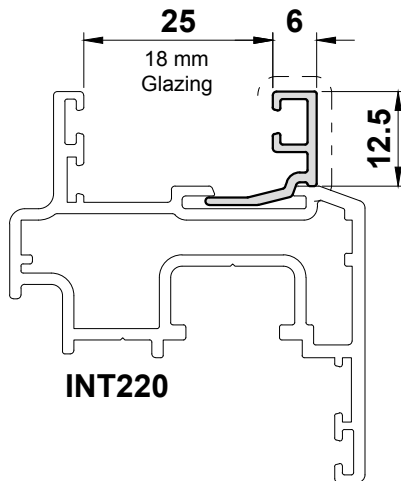
Scale 1:1

Primary Visible Side

Secondary Visible Side

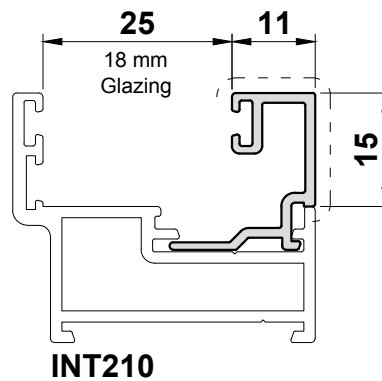
INT293

Square Bead



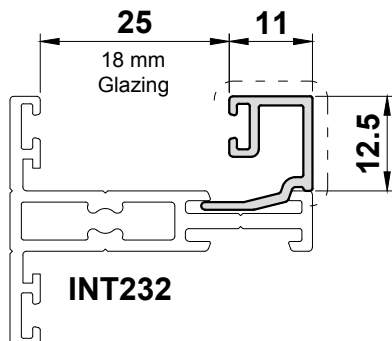
INT294

Square Bead



INT295

Square Bead

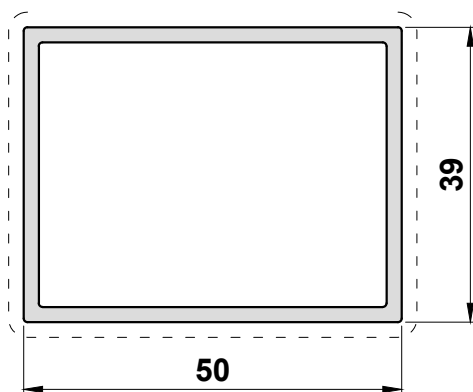


Scale 1:1

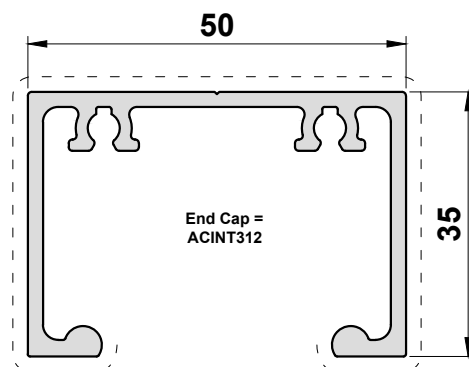
Primary Visible Side

Secondary Visible Side

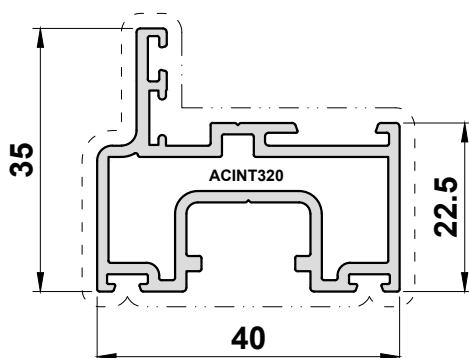
INT310
50x39mm Box



INT312
Top Track



INT320
Sash

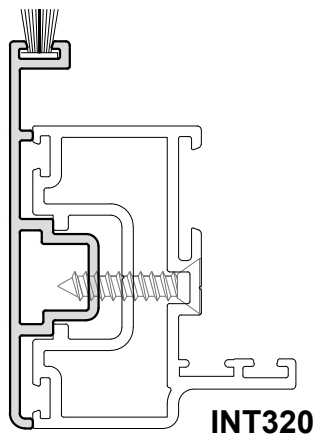
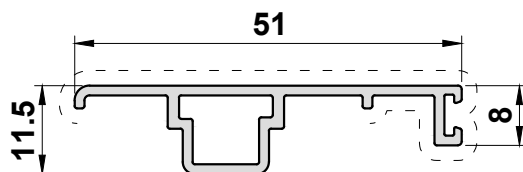


Scale 1:1

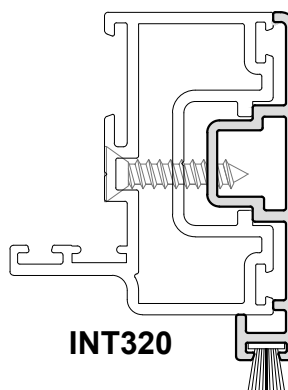
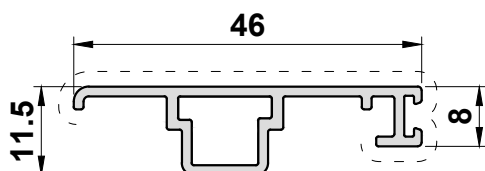
Primary Visible Side

Secondary Visible Side

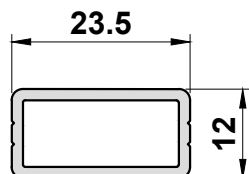
INT322 Sliding Door Interlock A



INT323 Sliding Door Interlock B



INT357 Concealed Coupler



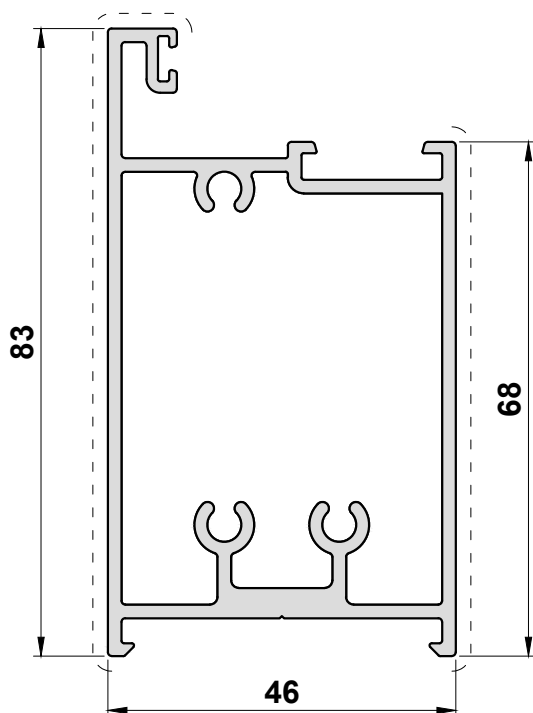
Scale 1:1

Primary Visible Side

Secondary Visible Side

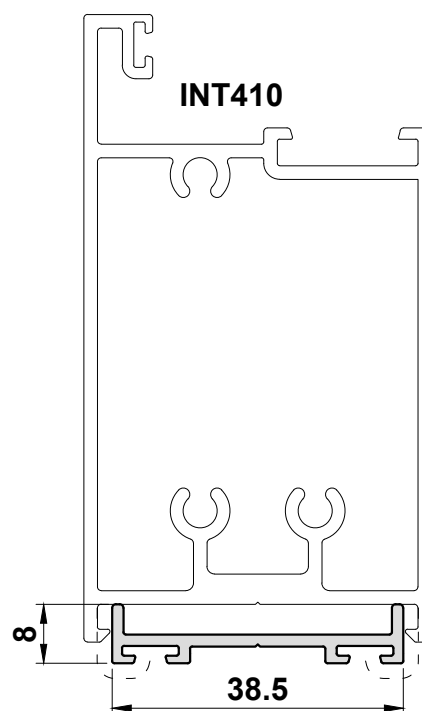
INT410

Pivot Door Rail



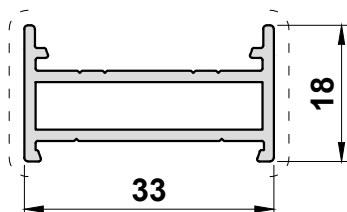
INT411

Woolpile Carrier



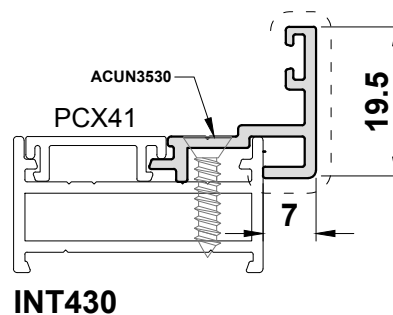
INT412

Pivot Door Frame



INT413

Upstand Frame



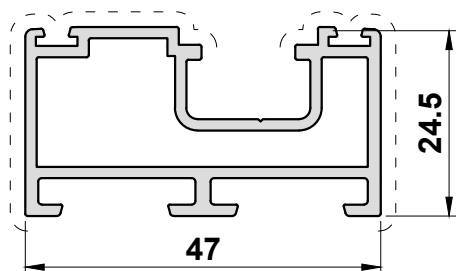
Scale 1:1

Primary Visible Side

Secondary Visible Side

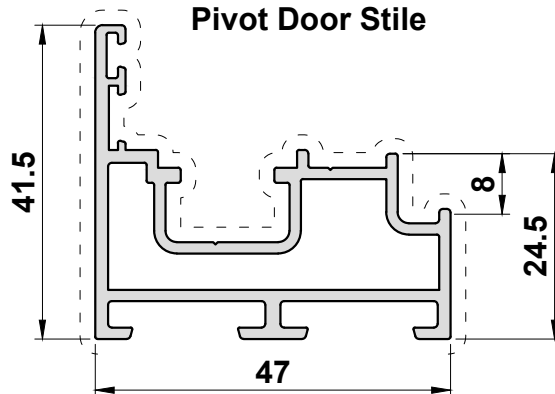
INT418

Pivot Door Stile



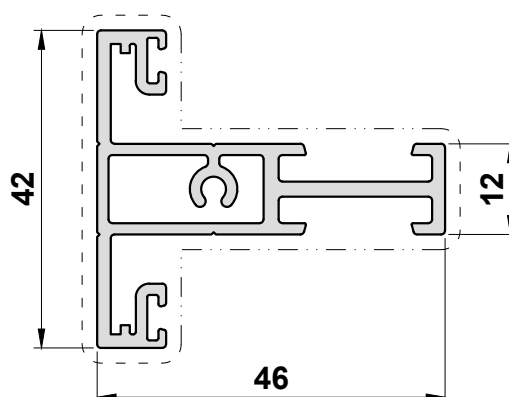
INT420

Pivot Door Stile



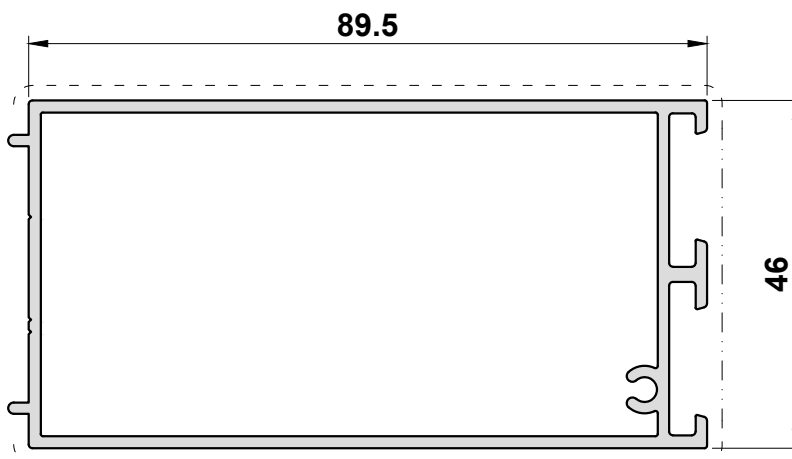
INT430

Transom



INT438

Pivot Door
Lock Housing



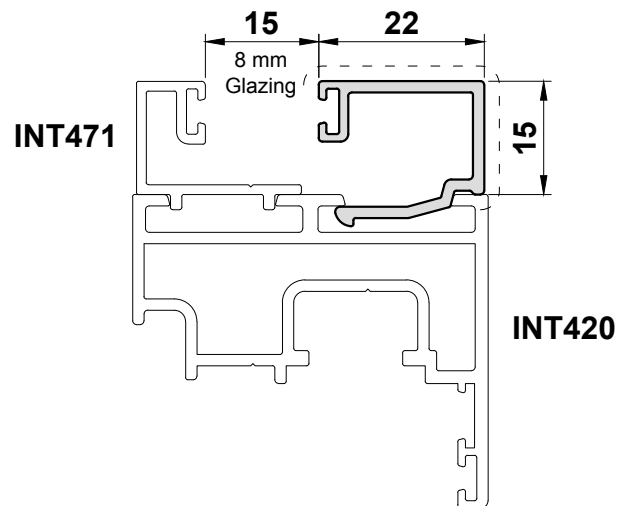
Scale 1:1

Primary Visible Side

Secondary Visible Side

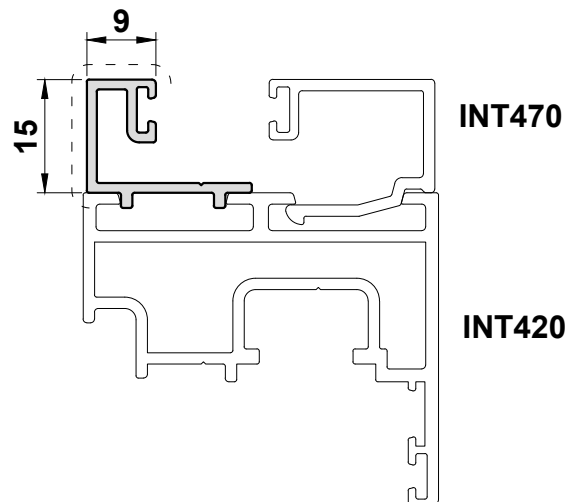
INT470

Square Bead
(Pivot Door)



INT471

External Square Bead
(Pivot Door)



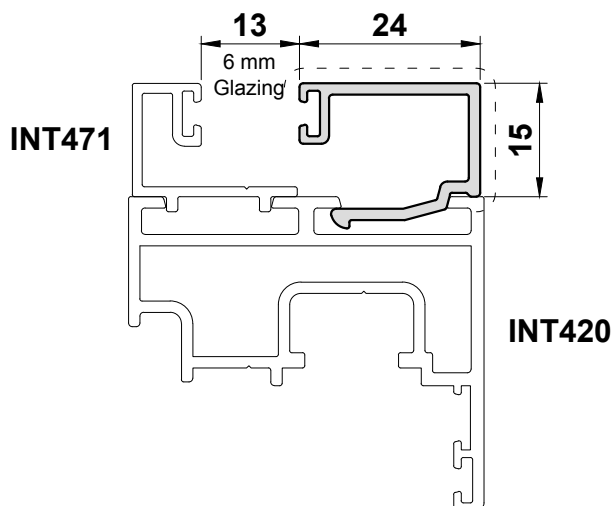
Scale 1:1

Primary Visible Side

Secondary Visible Side

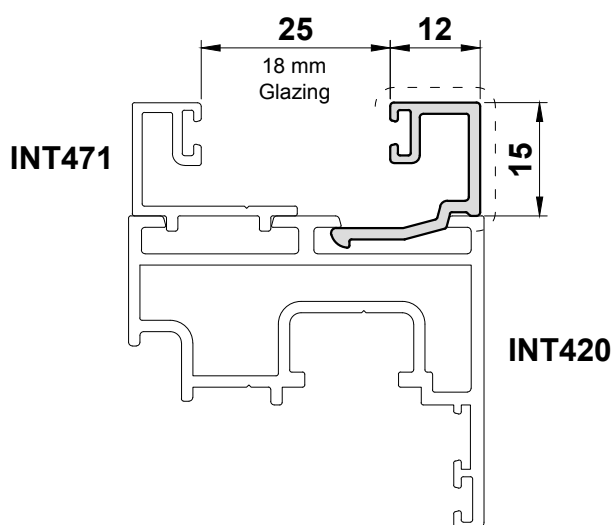
INT472

Square Bead
(Pivot Door)



INT473

Square Bead
(Pivot Door)



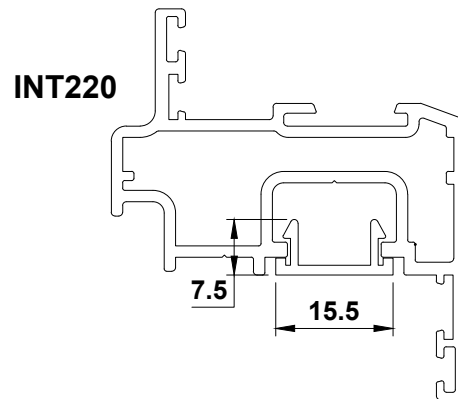
Scale 1:1

Primary Visible Side

Secondary Visible Side

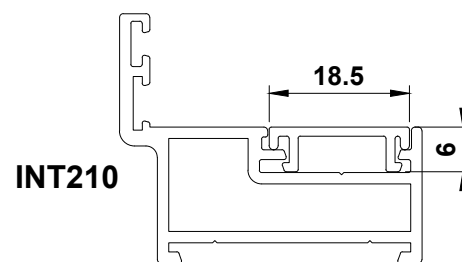
PCX15

Sash Infill



PCX41

Outer Frame Infill



Scale 1:1

Primary Visible Side

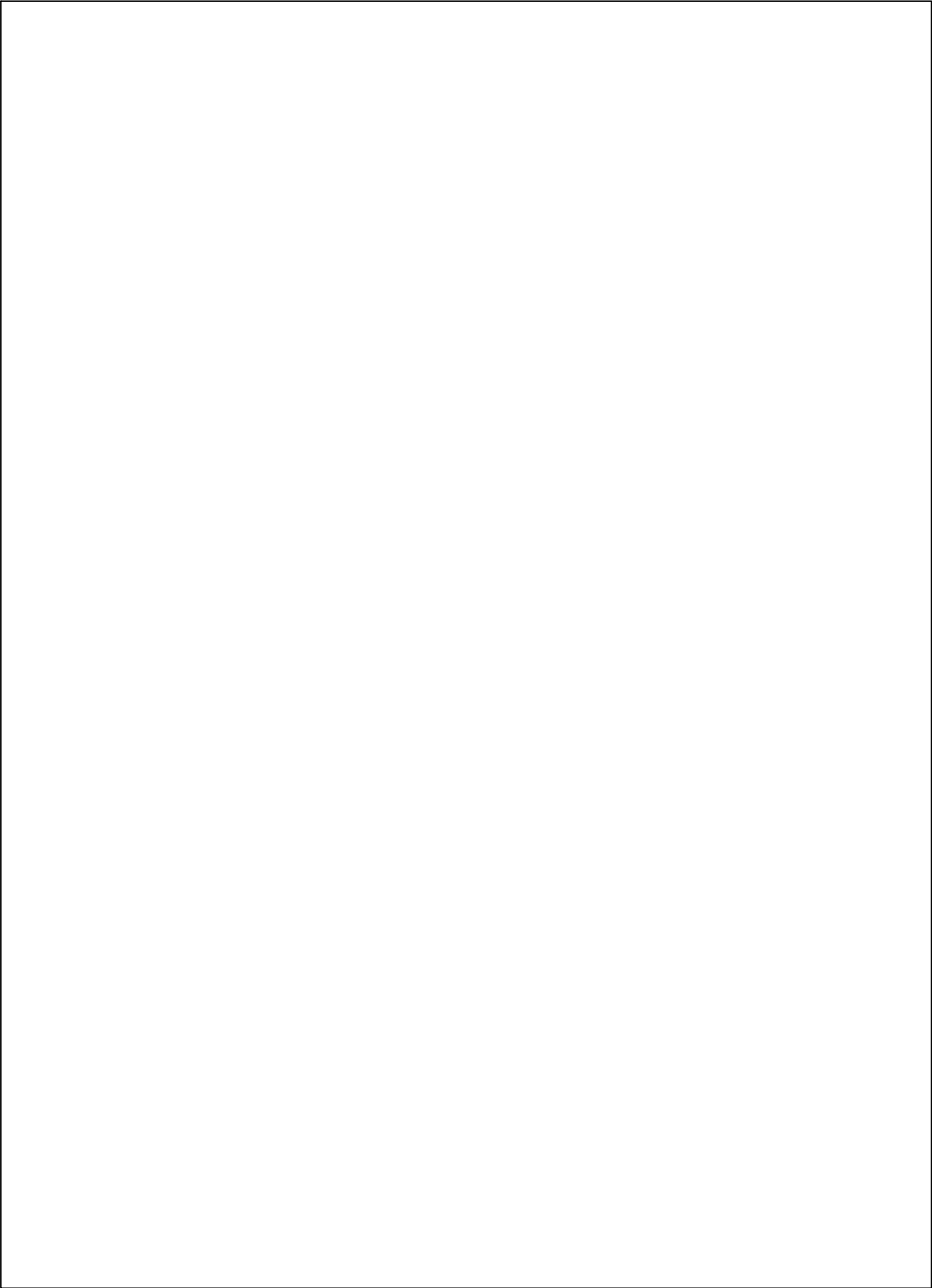
Secondary Visible Side

Scale 1:1

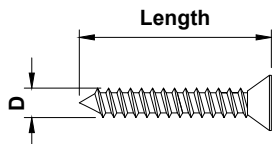
Section B

Accessories

Photos & Drawings



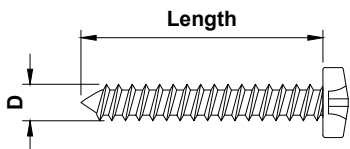
Countersunk Screws



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

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

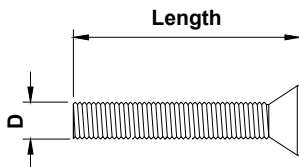
Pan Head Screws



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

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

Machine Screws



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

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

Glazing Gaskets

Retaining Gasket

Commonly known as an E Gasket.
Retaining gaskets create a seal between the glass and the aluminium profile.

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

Thickness	Drawing 1:1	Part number
		Coil length
		Available Colours

**PLEASE SEE GLAZING
CHART IN SECTION E FOR
FURTHER INFORMATION**

Wedge Gasket

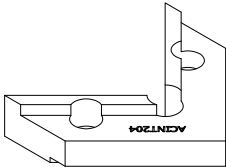
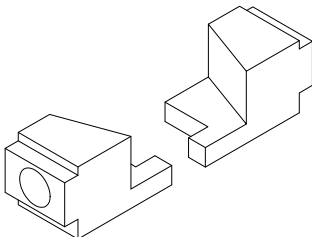
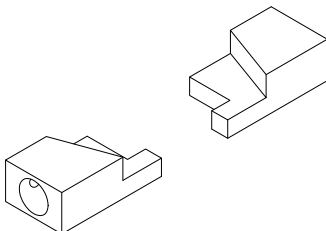
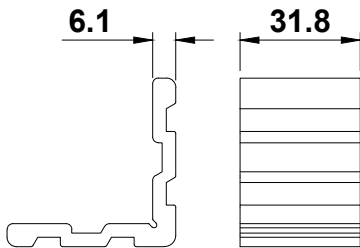
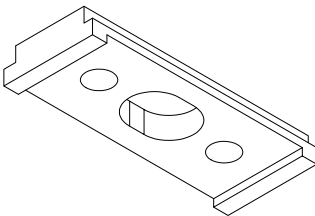
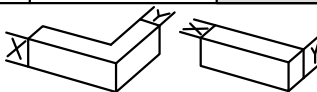
Wedge Gaskets help to hold the bead in place by providing tension between the bead and the glazing unit.

High Line	3mm		ACVG32
			100m
			BL
	3mm		ACVG32N
			100m
			BL
	4mm		ACVG33
			100m
			BL
	4mm		ACVG33N
			100m
			BL
	5mm		ACVG34
			100m
			BL
	5mm		ACVG34N
			100m
			BL
	6mm		ACVG340
			100m
			BL
Low Line	6mm		ACVG340N
			100m
			BL
	4mm - 3mm		ACW20038
			50m
			BL
	5mm		ACET840N
			200m
			BL

ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour
	ACET045 Stainless Steel Chevron	100	pack	INT210 INT218	MF ☒
					SA ☐
					KL ☐
					HP ☐
					SSC ☐
					SMC ☐
					W ☐
					Z ☐
					PC ☐
	ACET904 Punch Tool	1	pair	INT218	MF ☒
					SA ☐
					KL ☐
					HP ☐
					SSC ☐
					SMC ☐
					W ☐
					Z ☐
					PC ☐
	ACINT201 V-Block	1	each	INT210 INT218 INT220 INT320	MF ☒
					SA ☐
					KL ☐
					HP ☐
					SSC ☐
					SMC ☐
					W ☐
					Z ☐
					PC ☐
	ACINT202 Packer	1	each	INT210	MF ☒
					SA ☐
					KL ☐
					HP ☐
					SSC ☐
					SMC ☐
					W ☐
					Z ☐
					PC ☐
	ACINT203 Packer	1	each	INT218 INT320	MF ☒
					SA ☐
					KL ☐
					HP ☐
					SSC ☐
					SMC ☐
					W ☐
					Z ☐
					PC ☐
T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	W = White Z = Black		

ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour	
	ACINT204 Packer	1	each	INT220	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACINT206 Punch Tool	1	pair	INT220	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACINT207 Punch Tool	1	pair	INT320	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACINT210 Crimping Corner Cleat	24	pack	INT210	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACINT211 Keep Packer	1	each	INT210 ACINT251	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	✓
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	W = White Z = Black			

ACCESSORIES : PHOTOS & DRAWINGS

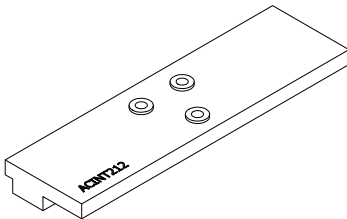
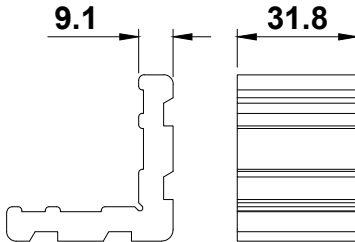
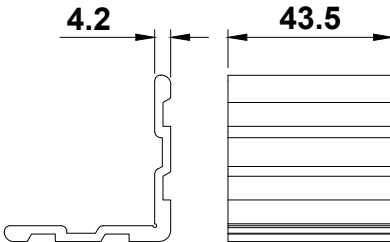
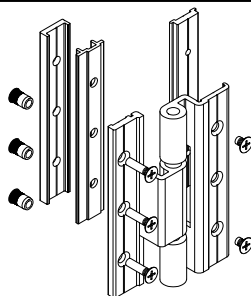
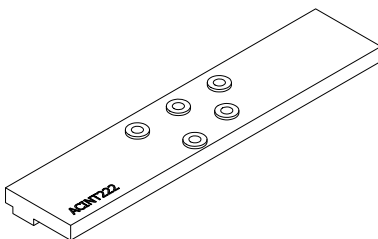
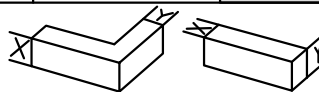
Image	Part Code	Pack	Unit	Application	Colour
	ACINT212 Drill Jig	1	each	INT210	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACINT218 Crimping Corner Cleat	24	pack	INT218	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACINT220 Crimping Corner Cleat	24	pack	INT220	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACINT221 Open In Hinge Kit	1	each	INT220	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACINT222 Drill Jig	1	each	INT218 INT220 INT320	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	W = White Z = Black		

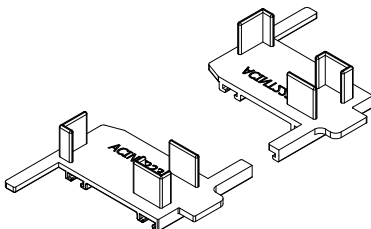
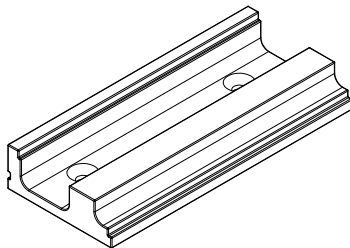
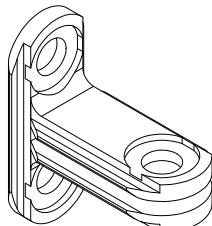
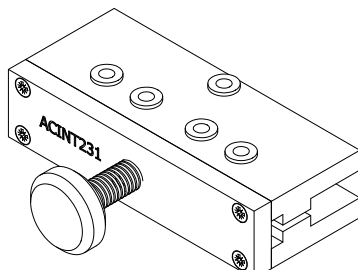
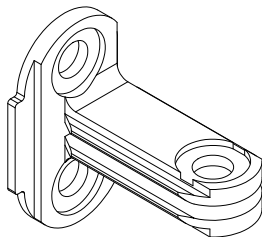
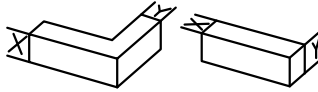
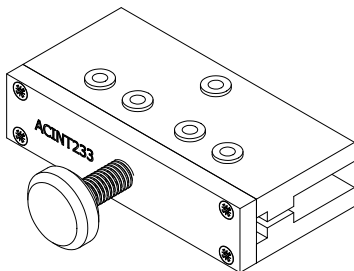
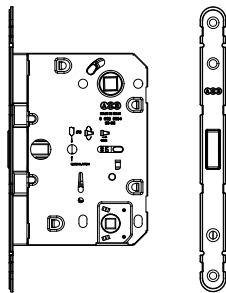
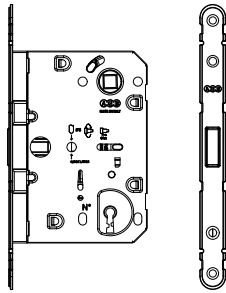
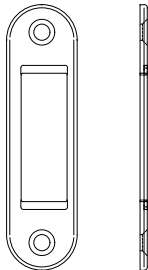
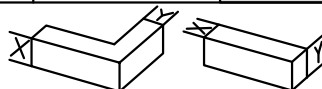
Image	Part Code	Pack	Unit	Application	Colour	
	ACINT223 End Cap	1	pair	INT220	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	✓
					PC	
	ACINT224 Block	2	pack	INT220	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	✓
					PC	
	ACINT230 Transom Bracket	2	pack	INT218 INT220 INT230 INT232 INT320	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACINT231 Drill Jig	1	each	INT230	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACINT232 Transom Bracket	2	pack	INT210 INT232	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		W = White Z = Black		

Image	Part Code	Pack	Unit	Application	Colour	
	ACINT233 Drill Jig	1	each	INT232	MF	
					SA	
					KL	
					HP	
					EB	
					NP	
					MC	
					W	
					Z	
	ACINT237 Magnetic Sash Bathroom Lock 70.5 mm Backset	1	each	INT238 INT438 ACINT239	MF	
					SA	
					KL	
					HP	
					EB	
					NP	
					MC	
					W	
					Z	
	ACINT238 Magnetic Sash Key Lock 70.5 mm Backset	1	each	INT238 INT438 ACINT239	MF	
					SA	
					KL	
					HP	
					EB	
					NP	
					MC	
					W	
					Z	
	ACINT239 Forend Cover	1	each	ACINT238	MF	
					SA	
					KL	
					HP	
					EB	✓
					NP	✓
					MC	✓
					W	
					Z	
	ACINT240 Striker Cover Plate	1	each	INT210 INT412 ACINT241	MF	
					SA	
					KL	
					HP	
					EB	✓
					NP	✓
					MC	✓
					W	
					Z	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour EB = Enamel Brass NP = Nickel Plated MC = Matt Chrome	W = White Z = Black			

ACCESSORIES : PHOTOS & DRAWINGS

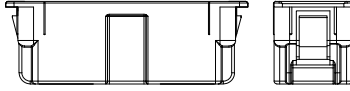
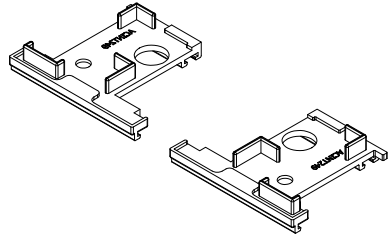
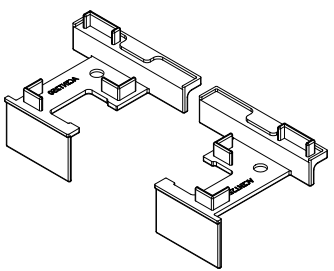
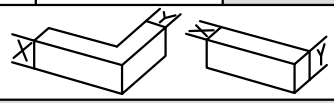
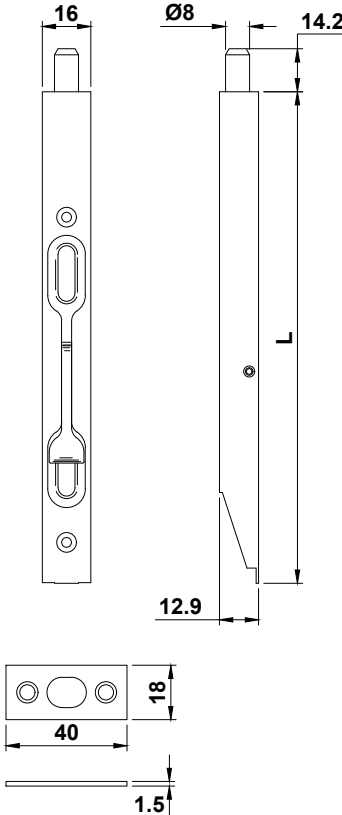
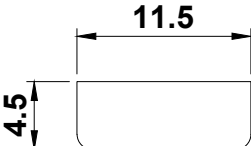
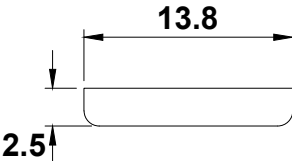
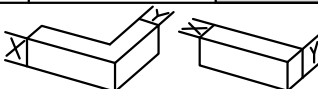
Image	Part Code	Pack	Unit	Application	Colour
	ACINT241 Latch Cover Tray with Magnet	1	each	ACINT240	MF
					SA
					KL
					HP
					EB
					NP
					MC
					W
					Z ✓
	ACINT242 Key for Magnetic Lock	1	each	ACINT238	MF
					SA
					KL
					HP
					EB ✓
					NP ✓
					MC
					W
					Z
	ACINT249 End Cap	1	pair	INT249	MF
					SA
					KL
					HP
					EB
					NP
					MC
					W
					Z ✓
	ACINT250 End Cap	1	pair	INT249	MF
					SA
					KL
					HP
					EB
					NP
					MC
					W
					Z ✓
					MF
					SA
					KL
					HP
					EB
					NP
					MC
					W
					Z
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour EB = Enamel Brass NP = Nickel Plated MC = Matt Chrome	W = White Z = Black		

Image	Part Code	Pack	Unit	Application	Colour	
	Flush Bolt 16 mm Forend	1	each	INT249	MF	
	ACINT251 L = 162.5mm				SA	
	ACINT252 L = 202.5mm				KL	
	ACINT253 L = 252.5mm				HP	
	ACINT254 L = 302.5mm				EB	✓
	ACINT255 L = 402.5mm				NP	✓
					MC	✓
					W	
					Z	✓
	ACINT260 11.5 x 4.5mm Packer	100	pack	INT210 INT218 INT220 INT275	MF	
					SA	
					KL	
					HP	
					EB	
					NP	
					MC	
					W	
					Z	
	ACINT261 13.8 x 2.5mm Packer	100	pack	INT230 INT232	MF	
					SA	
					KL	
					HP	
					EB	
					NP	
					MC	
					W	
					Z	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour EB = Enamel Brass NP = Nickel Plated MC = Matt Chrome	W = White Z = Black				

ACCESSORIES : PHOTOS & DRAWINGS

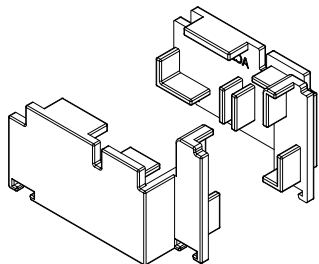
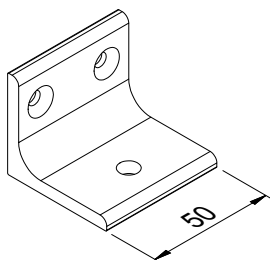
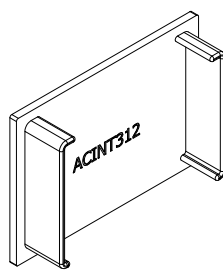
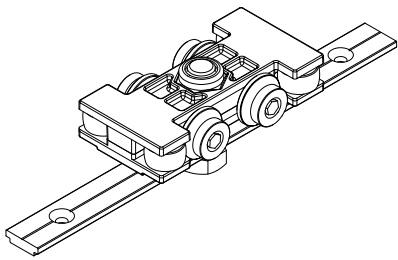
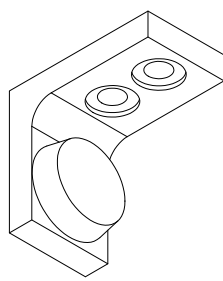
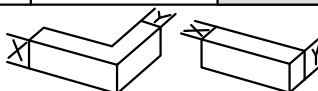
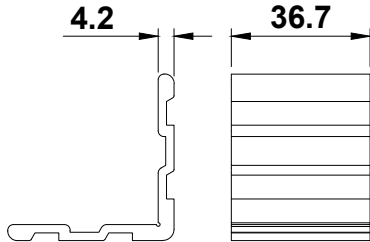
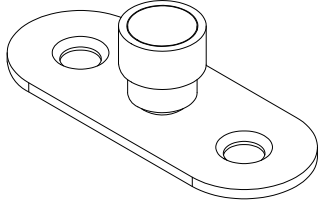
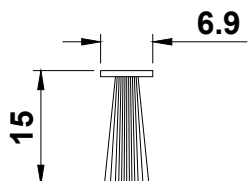
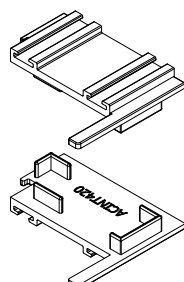
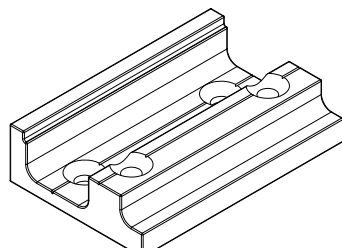
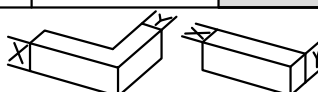
Image	Part Code	Pack	Unit	Application	Colour				
	ACINT274 End Cap	1	pair	INT274	MF				
					SA				
					KL				
					HP				
					SSC				
					SMC				
					W				
					Z				
					PC				
	ACINT311 Bracket	1	each	INT312	MF				
					SA				
					KL				
					HP				
					SSC				
					SMC				
					W				
					Z				
					PC				
	ACINT312 End Cap	2	pack	INT312	MF				
					SA				
					KL				
					HP				
					SSC				
					SMC				
					W				
					Z				
					PC				
	ACINT313 Top Carrier Roller	1	each	INT312	MF				
					SA				
					KL				
					HP				
					SSC				
					SMC				
					W				
					Z				
					PC				
	ACINT314 Buffer Stop	2	pack	INT312	MF				
					SA				
					KL				
					HP				
					SSC				
					SMC				
					W				
					Z				
					PC				
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm		 Screw (Grub)		MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		W = White Z = Black			

Image	Part Code	Pack	Unit	Application	Colour
	ACINT320 Crimping Corner Cleat	24	pack	INT320	MF ☒
					SA ☐
					KL ☐
					HP ☐
					SSC ☐
					SMC ☐
					W ☐
					Z ☐
					PC ☐
	ACINT325 Bottom Guide	1	each	INT320	MF ☒
					SA ☐
					KL ☐
					HP ☐
					SSC ☐
					SMC ☐
					W ☐
					Z ☐
					PC ☐
	ACINT411 6.9mm x 15mm Black Woolpile	100	m	INT411	MF ☐
					SA ☐
					KL ☐
					HP ☐
					SSC ☐
					SMC ☐
					W ☐
					Z ☒
					PC ☐
	ACINT420 End Cap	1	pair	INT420	MF ☐
					SA ☐
					KL ☐
					HP ☐
					SSC ☐
					SMC ☐
					W ☐
					Z ☒
					PC ☐
	ACINT421 Block	4	pack	INT418 INT420	MF ☐
					SA ☐
					KL ☐
					HP ☐
					SSC ☐
					SMC ☐
					W ☐
					Z ☐
					PC ☐
 	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome		W = White Z = Black		

ACCESSORIES : PHOTOS & DRAWINGS

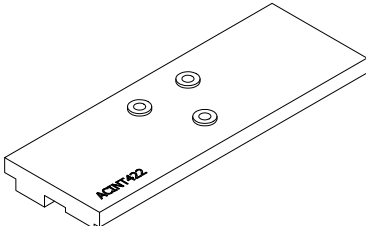
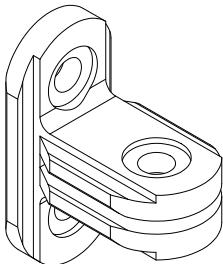
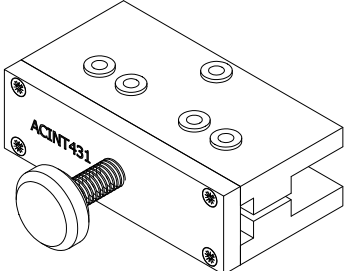
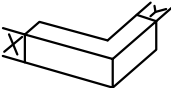
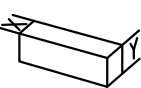
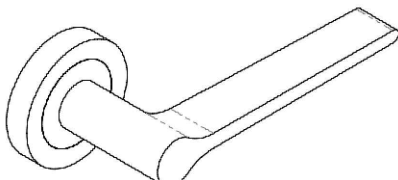
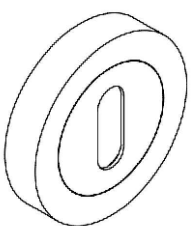
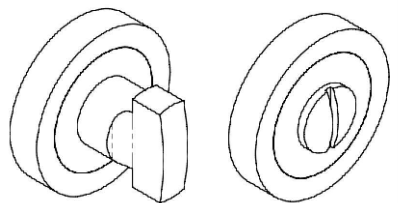
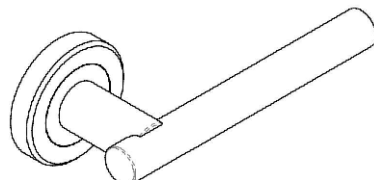
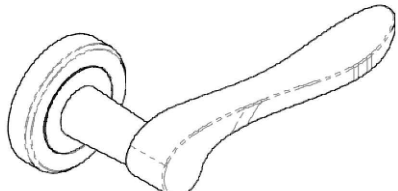
Image	Part Code	Pack	Unit	Application	Colour
	ACINT422 Drill Jig	1	each	INT410 INT418 INT420	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACINT430 Transom Bracket	2	pack	INT420 INT430	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACINT431 Drill Jig	1	each	INT430	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
					MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
					MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm  Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome				 

Image	Part Code	Pack	Unit	Application	Colour	
	ACINT501 Lever On Round Rose Handle	1	pair	ACINT502 ACINT503	AB	✓
					SB	✓
					SC	
					SN	✓
					PB	
					PN	✓
					PC	
					MBRZ	✓
					MB	✓
	ACINT502 Lock Profile Escutcheon on Round Rose	1	each	ACINT501	AB	✓
					SB	✓
					SC	
					SN	✓
					PB	
					PN	✓
					PC	
					MBRZ	✓
					MB	✓
	ACINT503 Turn & Release on Round Rose	1	set	ACINT501	AB	✓
					SB	✓
					SC	
					SN	✓
					PB	
					PN	✓
					PC	
					MBRZ	✓
					MB	✓
	ACINT504 Lever On Round Rose Handle	1	pair	ACINT506 ACINT507	AB	✓
					SB	
					SC	✓
					SN	
					PB	
					PN	
					PC	✓
					MBRZ	
					MB	✓
	ACINT505 Lever On Round Rose Handle	1	pair	ACINT506 ACINT507	AB	✓
					SB	
					SC	✓
					SN	
					PB	
					PN	
					PC	✓
					MBRZ	
					MB	✓
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	 Screw (Grub)	AB = Antique Brass MBRZ = Matt Bronze SB = Satin Brass MB = Matt Black SC = Satin Chrome SN = Satin Nickel PB = Polished Brass PN = Polished Nickel PC = Polished Chrome		 		

ACCESSORIES : PHOTOS & DRAWINGS

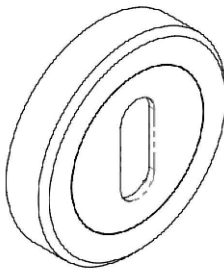
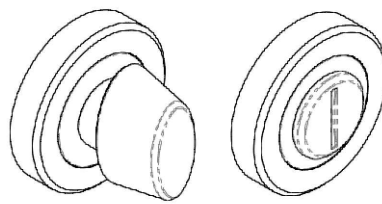
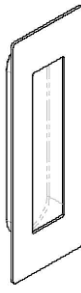
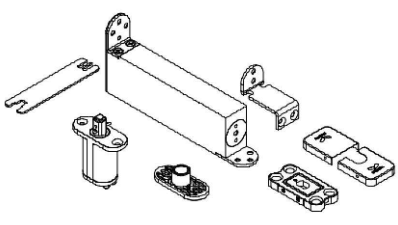
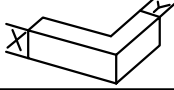
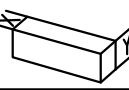
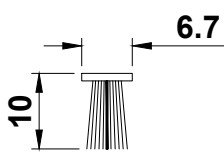
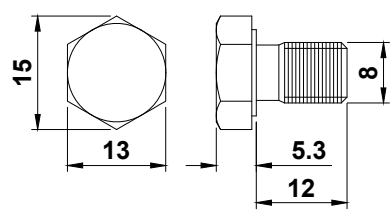
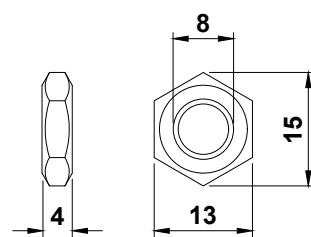
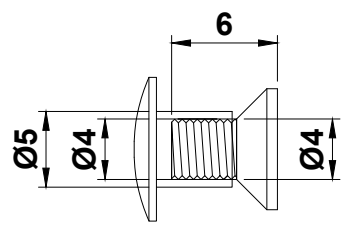
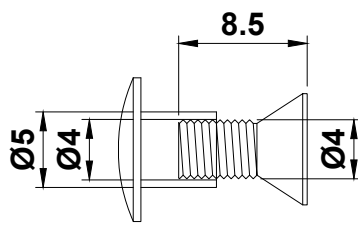
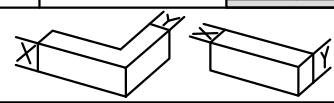
Image	Part Code	Pack	Unit	Application	Colour	
	ACINT506 Lock Profile Escutcheon on Round Rose	1	each	ACINT504 ACINT505	AB	✓
					SB	
					SC	✓
					SN	
					PB	
					PN	
					PC	✓
					MBRZ	
					MB	✓
	ACINT507 Turn & Release on Round Rose	1	set	ACINT504 ACINT505	AB	✓
					SB	
					SC	✓
					SN	
					PB	
					PN	
					PC	✓
					MBRZ	
					MB	✓
	ACINT521 180x60mm Rectangular Flush Pull Handle Finishes: Bright or Satin Stainless Steel	1	each		AB	
					SB	
					SC	
					SN	
					PB	
					PN	
					PC	
					MBRZ	
					MB	
	ACINT522 Square Mitred Pull Handle (450mm centres) Finishes: Matt Black or Satin Stainless Steel	1	each		AB	
					SB	
					SC	
					SN	
					PB	
					PN	
					PC	
					MBRZ	
					MB	
	ACSIN201 Pivot System (Max 100 Kg)	1	each	INT410	AB	
					SB	
					SC	
					SN	
					PB	
					PN	
					PC	
					MBRZ	
					MB	
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm  Screw (Grub)	AB = Antique Brass MBRZ = Matt Bronze SB = Satin Brass MB = Matt Black SC = Satin Chrome SN = Satin Nickel PB = Polished Brass PN = Polished Nickel PC = Polished Chrome		 			

Image	Part Code	Pack	Unit	Application	Colour
	ACUG842 6.7mm x 10mm Black Woolpile with Fin	50	m	INT411	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACUN3545 M8 x 12 mm Hexagonal Head Setscrew	100	pack	ACUN3546	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACUN3546 M8 Hexagonal Lock Thin Nut	100	pack	ACUN3545	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACUN3547 M4 Connecting Screws	100	pack	ACINT230 ACINT232	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACUN3551 M4 Connecting Screws	100	pack	ACINT430	MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
 	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	W = White Z = Black			

ACCESSORIES : PHOTOS & DRAWINGS

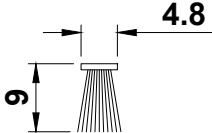
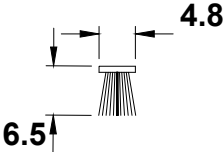
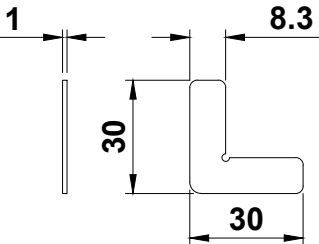
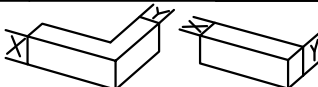
Image	Part Code	Pack	Unit	Application	Colour	
	ACVS033 4.8mm x 9mm Black Woolpile with Fin	150	m	INT274 INT275	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	✓
					PC	
	ACVS034 4.8mm x 6.5mm Black Woolpile with Fin	150	m	INT320 INT322 INT323	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	✓
					PC	
	ACW20024 Stainless Steel Chevron	100	pack	INT220	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
					MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
					MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
 	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	W = White Z = Black				

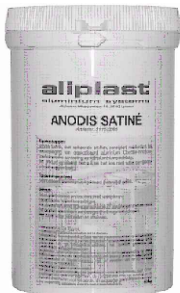
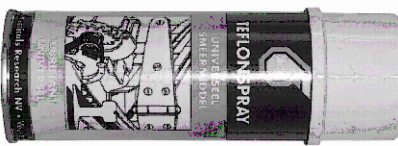
Image	Part Code	Pack	Unit	Application	Colour
	ACMX09700 Alu-Polish Cleaning emulsion for aluminium oxide.	1	each		MF ☒
					SA ☐
					KL ☐
					HP ☐
					SSC ☐
					SMC ☐
					W ☐
					Z ☐
					PC ☐
					
SA ☐					
KL ☐					
HP ☐					
SSC ☐					
SMC ☐					
W ☐					
Z ☐					
PC ☐					
	ACMX09762 Alu. Bright Cleaner for rough, anodised or enamelled aluminium frames.	1	each		
					SA ☐
					KL ☐
					HP ☐
					SSC ☐
					SMC ☐
					W ☐
					Z ☐
					PC ☐
					
SA ☐					
KL ☐					
HP ☐					
SSC ☐					
SMC ☐					
W ☐					
Z ☐					
PC ☐					
	ACMX09764 Maxi Cleaner For cleaning oily surfaces.	1	each		
					SA ☐
					KL ☐
					HP ☐
					SSC ☐
					SMC ☐
					W ☐
					Z ☐
					PC ☐
					 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm  Screw (Grub)

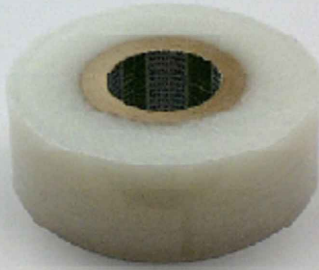
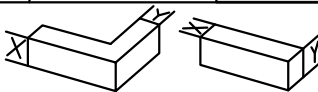
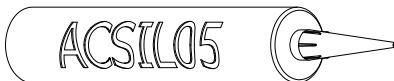
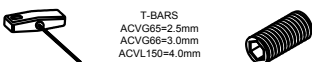
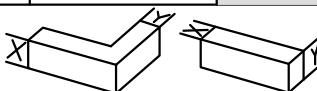
Image	Part Code	Pack	Unit	Application	Colour
	ACMX09765 Glue Cleaner De-grease and silicone remover (1 Litre).	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACMX09770 Roll & Wrap 100mm	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACMX09775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

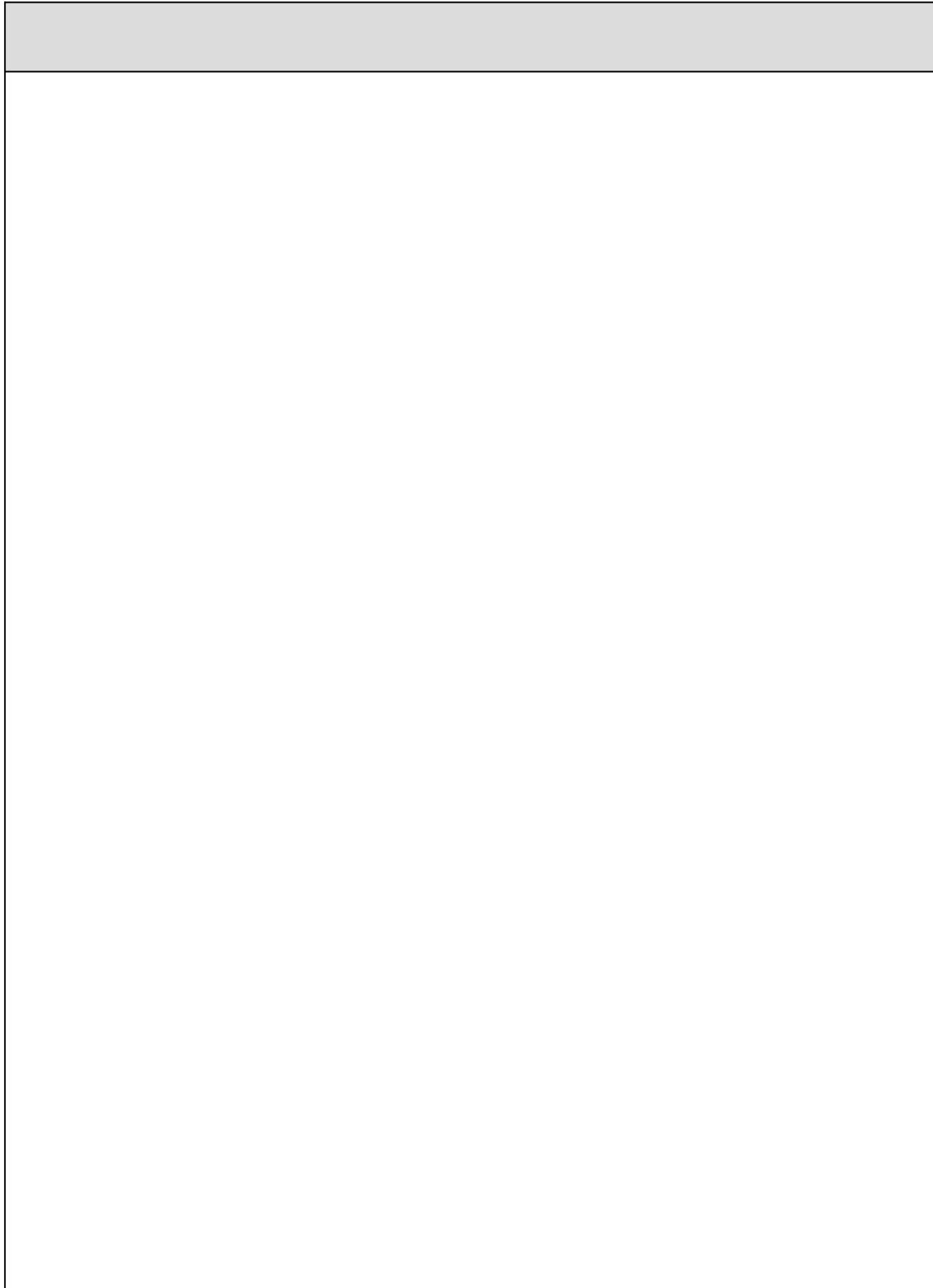
Image	Part Code	Pack	Unit	Application	Colour
	ACMX09803 Protective Tape 100mm	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACSIL05 Rubber Sealant	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACSIL04 Sealing Glue Order with suffix of KL colour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

	ACSIL014 Anti-Corrosion Coating	1	each		<table><tr><td>MF</td><td>✓</td></tr><tr><td>SA</td><td></td></tr><tr><td>KL</td><td></td></tr><tr><td>HP</td><td></td></tr><tr><td>SSC</td><td></td></tr><tr><td>SMC</td><td></td></tr><tr><td>W</td><td></td></tr><tr><td>Z</td><td></td></tr><tr><td>PC</td><td></td></tr></table>	MF	✓	SA		KL		HP		SSC		SMC		W		Z		PC	
MF	✓																						
SA																							
KL																							
HP																							
SSC																							
SMC																							
W																							
Z																							
PC																							
	ACUN3900 Gasket Roller	1	Each	Wedge Gaskets	<table><tr><td>MF</td><td></td></tr><tr><td>SA</td><td></td></tr><tr><td>KL</td><td></td></tr><tr><td>HP</td><td></td></tr><tr><td>SSC</td><td></td></tr><tr><td>SMC</td><td></td></tr><tr><td>W</td><td></td></tr><tr><td>Z</td><td></td></tr><tr><td>PC</td><td></td></tr></table>	MF		SA		KL		HP		SSC		SMC		W		Z		PC	
MF																							
SA																							
KL																							
HP																							
SSC																							
SMC																							
W																							
Z																							
PC																							
					<table><tr><td>MF</td><td></td></tr><tr><td>SA</td><td></td></tr><tr><td>KL</td><td></td></tr><tr><td>HP</td><td></td></tr><tr><td>SSC</td><td></td></tr><tr><td>SMC</td><td></td></tr><tr><td>W</td><td></td></tr><tr><td>Z</td><td></td></tr><tr><td>PC</td><td></td></tr></table>	MF		SA		KL		HP		SSC		SMC		W		Z		PC	
MF																							
SA																							
KL																							
HP																							
SSC																							
SMC																							
W																							
Z																							
PC																							
					<table><tr><td>MF</td><td></td></tr><tr><td>SA</td><td></td></tr><tr><td>KL</td><td></td></tr><tr><td>HP</td><td></td></tr><tr><td>SSC</td><td></td></tr><tr><td>SMC</td><td></td></tr><tr><td>W</td><td></td></tr><tr><td>Z</td><td></td></tr><tr><td>PC</td><td></td></tr></table>	MF		SA		KL		HP		SSC		SMC		W		Z		PC	
MF																							
SA																							
KL																							
HP																							
SSC																							
SMC																							
W																							
Z																							
PC																							
					<table><tr><td>MF</td><td></td></tr><tr><td>SA</td><td></td></tr><tr><td>KL</td><td></td></tr><tr><td>HP</td><td></td></tr><tr><td>SSC</td><td></td></tr><tr><td>SMC</td><td></td></tr><tr><td>W</td><td></td></tr><tr><td>Z</td><td></td></tr><tr><td>PC</td><td></td></tr></table>	MF		SA		KL		HP		SSC		SMC		W		Z		PC	
MF																							
SA																							
KL																							
HP																							
SSC																							
SMC																							
W																							
Z																							
PC																							
 T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm  Screw (Grub)	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	W = White Z = Black																					

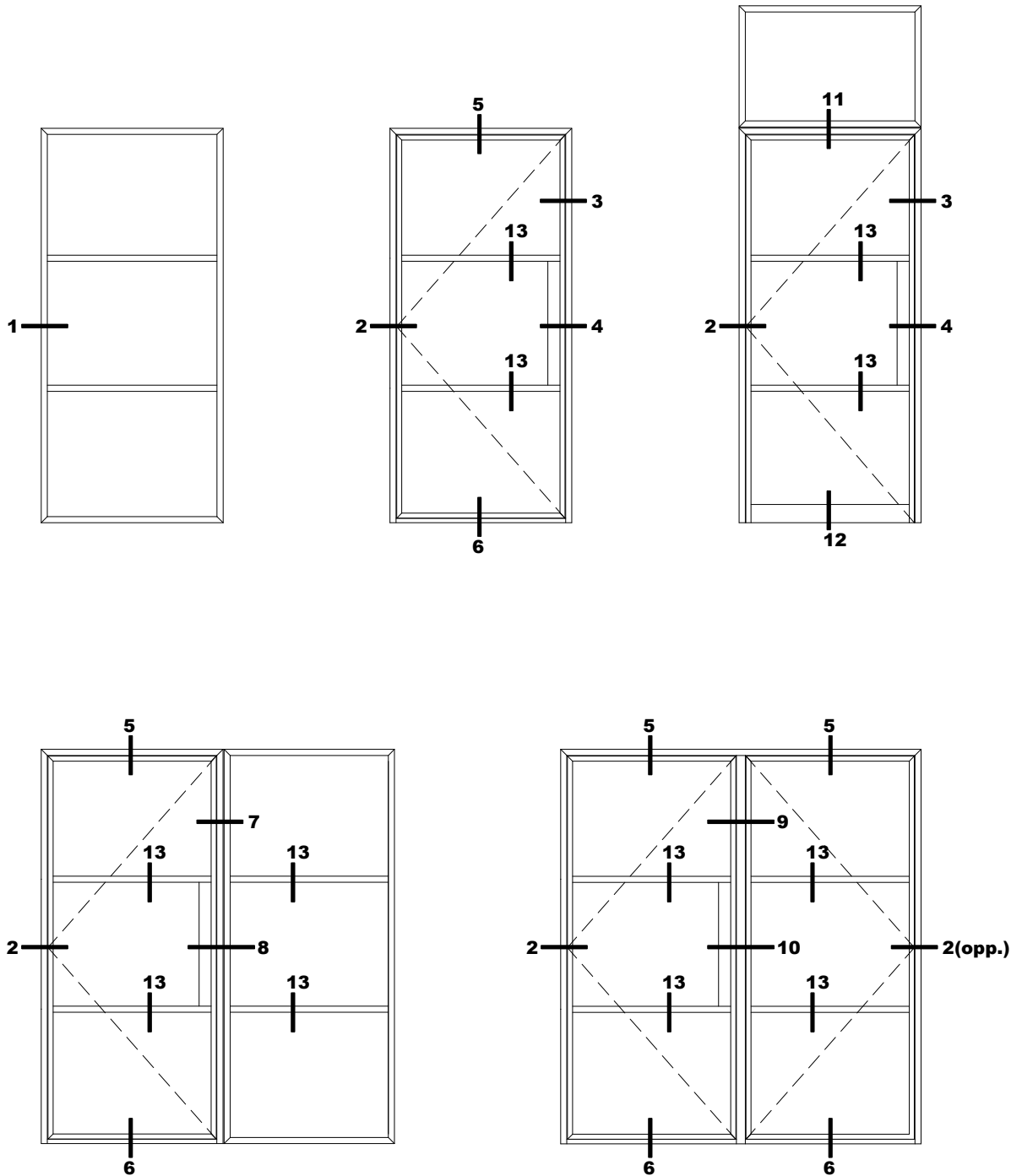
Section C

Sections

Scale Elevations

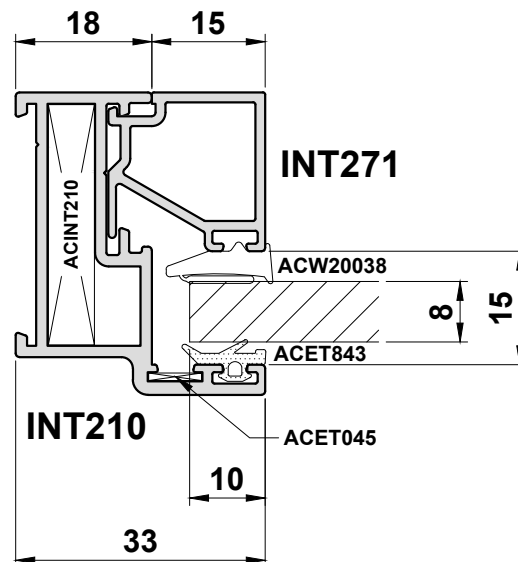
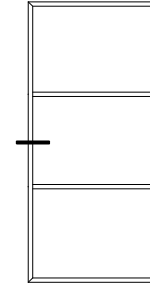


Open In - Swing Door



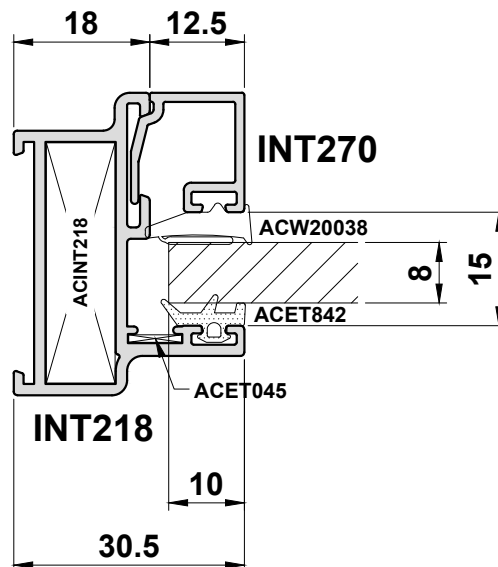
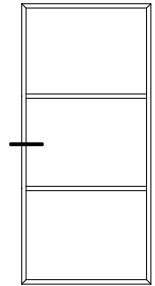
Do Not Scale From This Drawing

Detail 1A



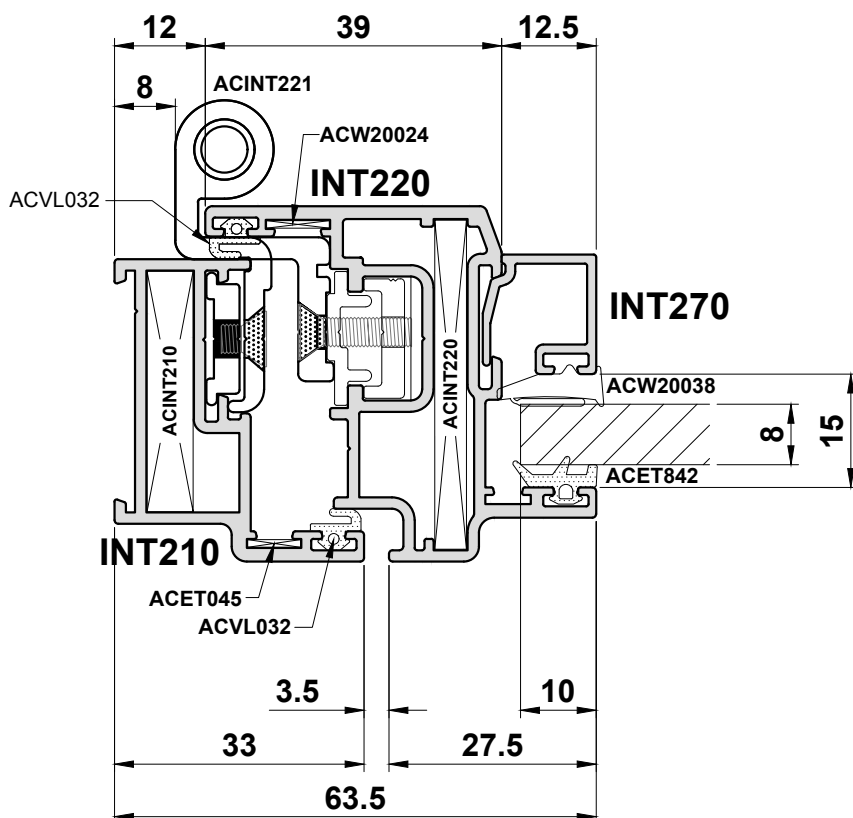
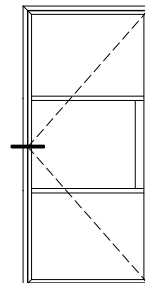
Do Not Scale From This Drawing

Detail 1B



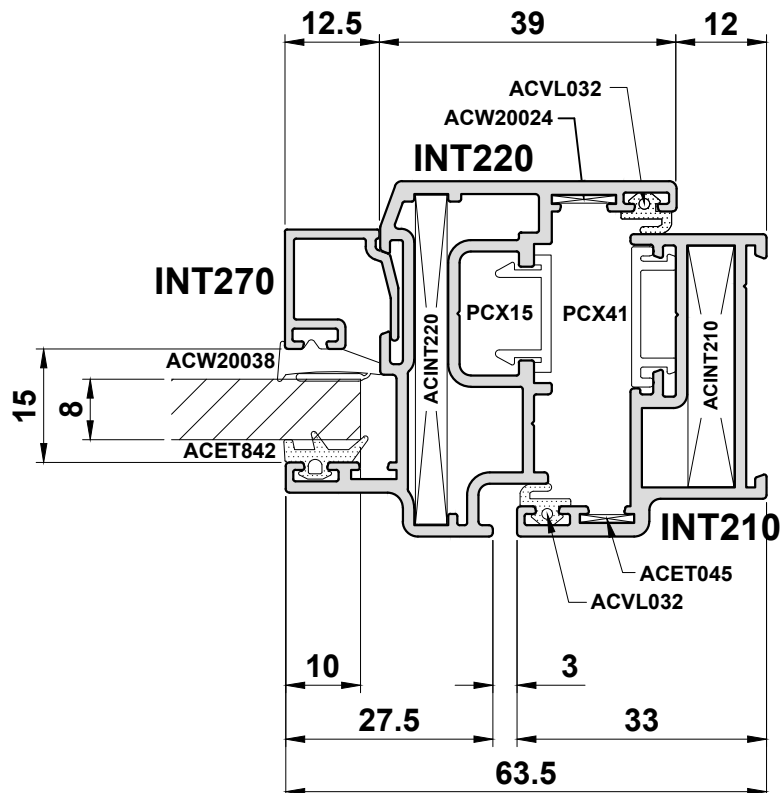
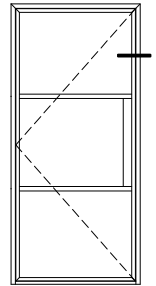
Do Not Scale From This Drawing

Detail 2



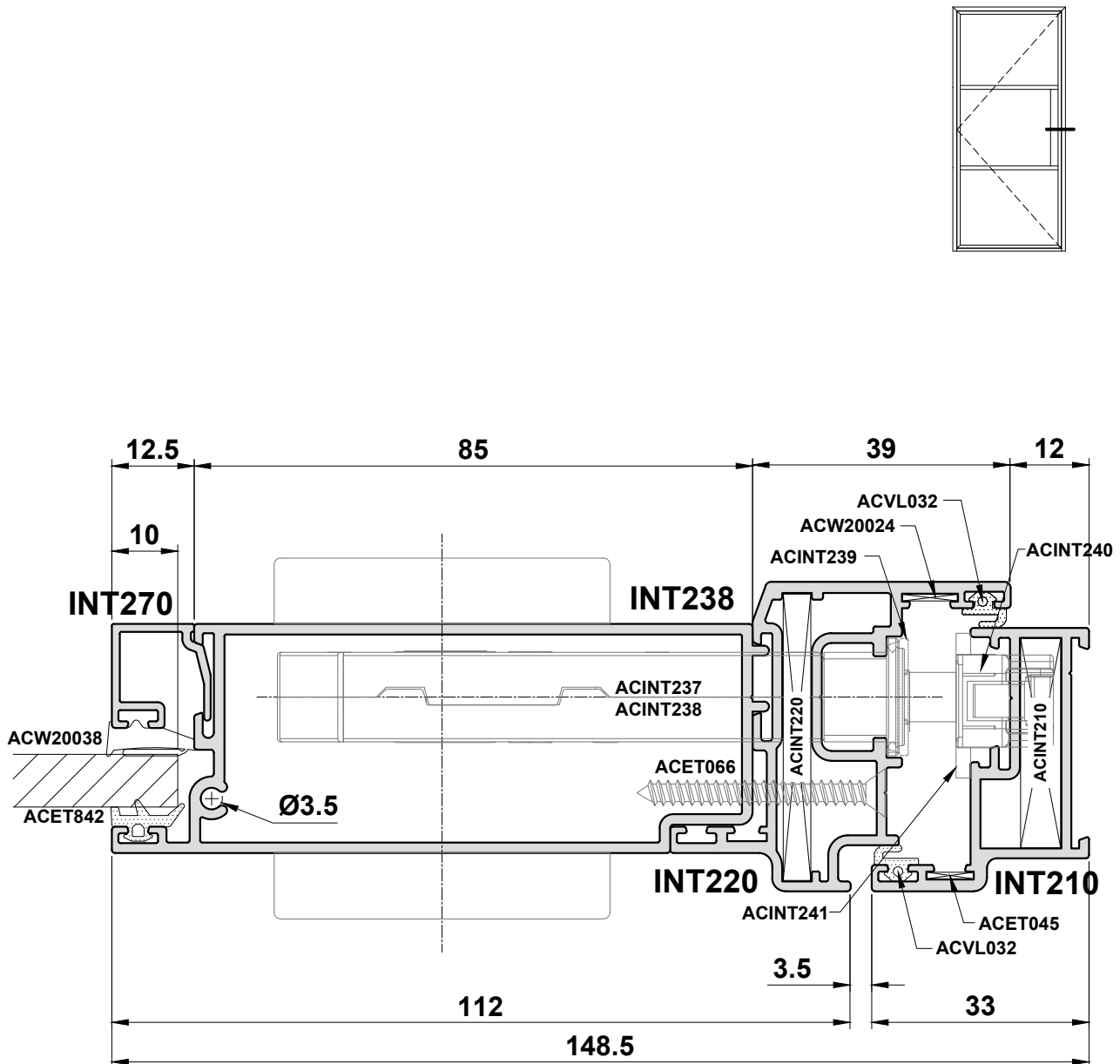
Do Not Scale From This Drawing

Detail 3



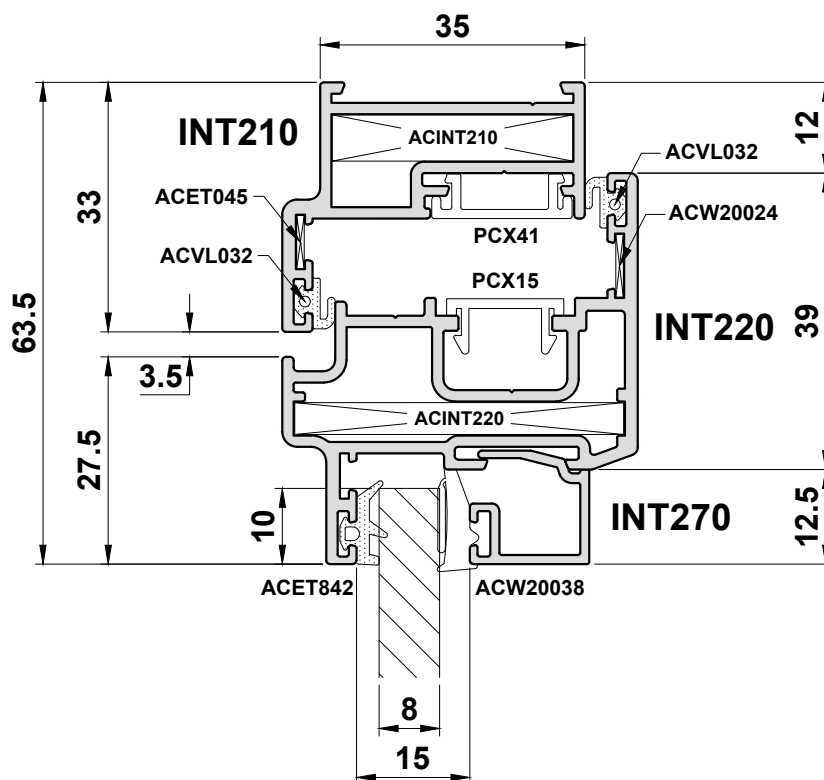
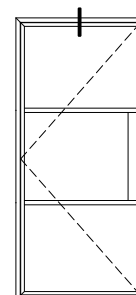
Do Not Scale From This Drawing

Detail 4



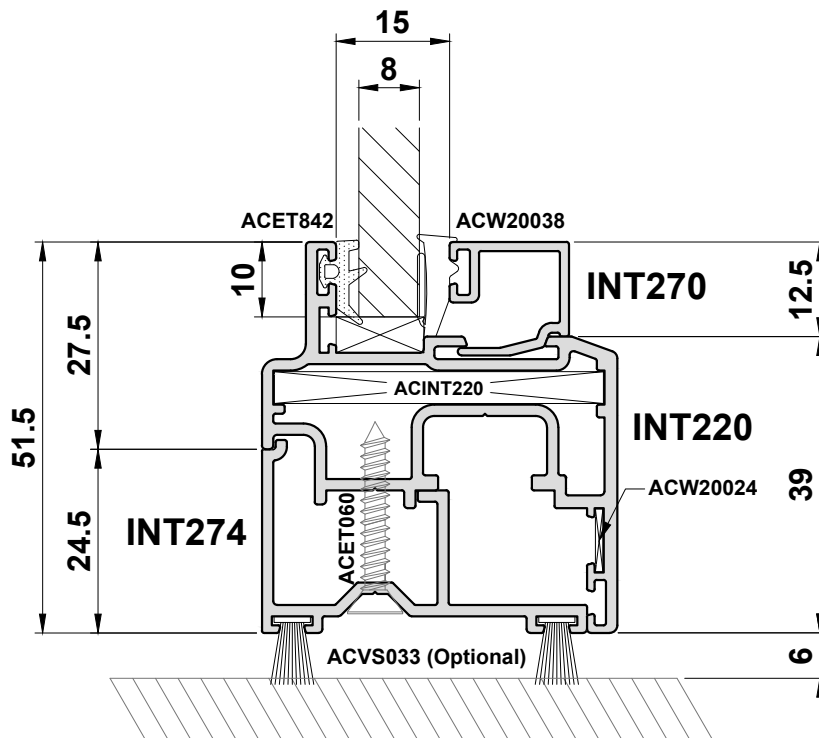
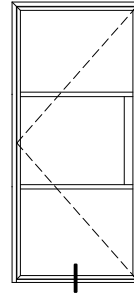
Do Not Scale From This Drawing

Detail 5



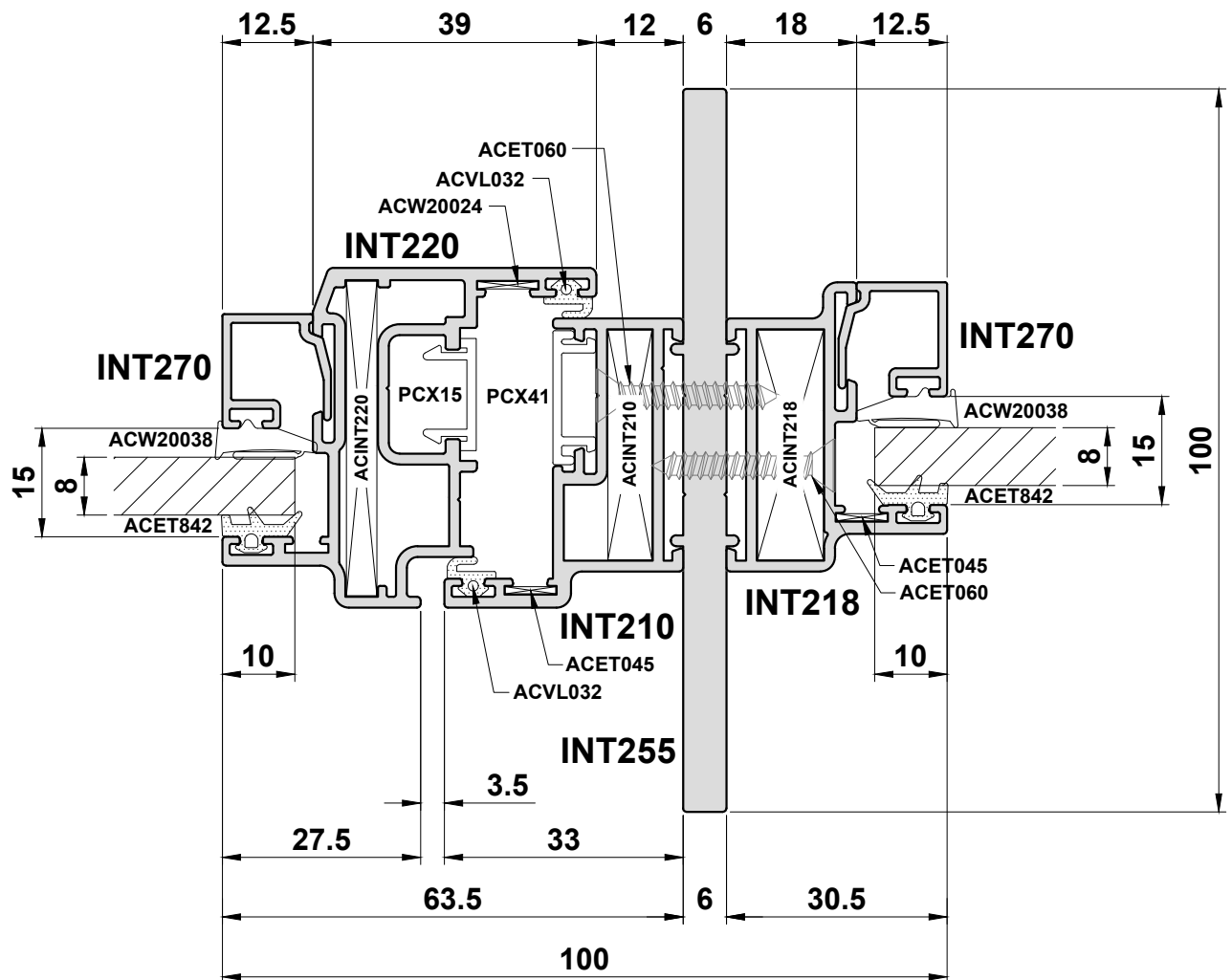
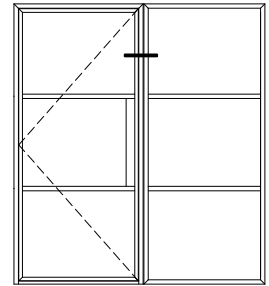
Do Not Scale From This Drawing

Detail 6



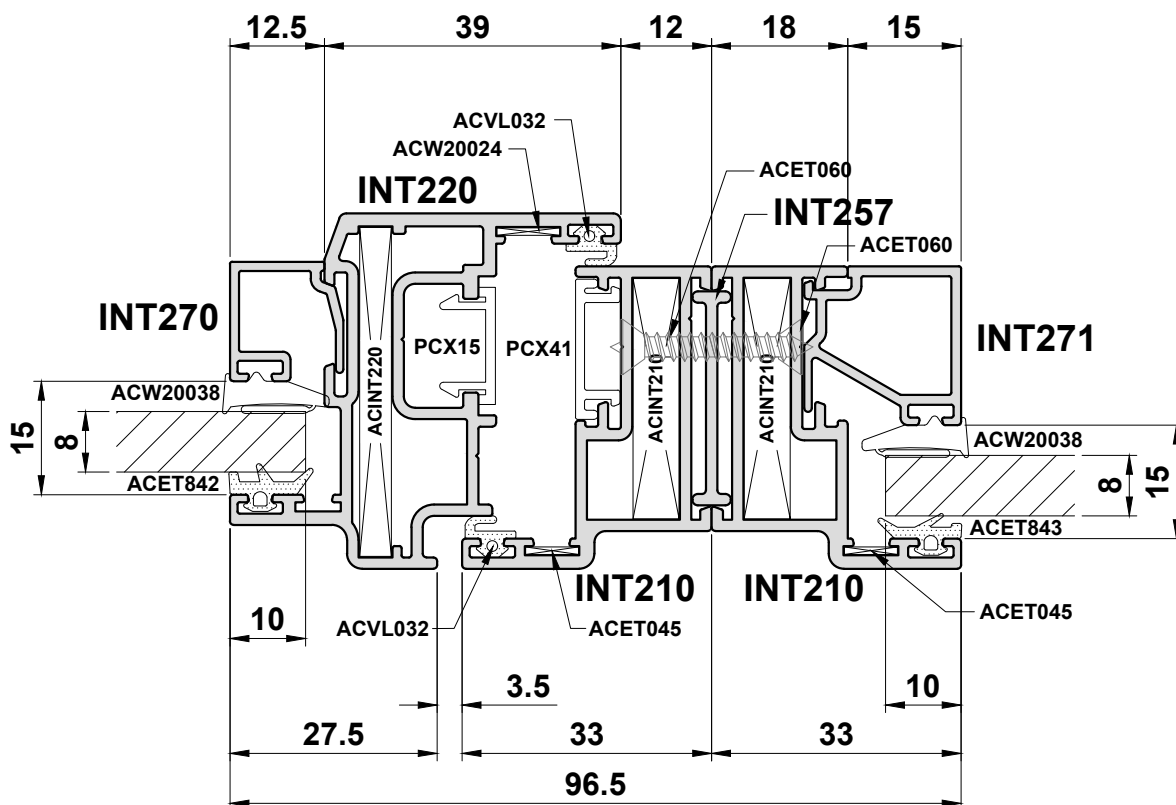
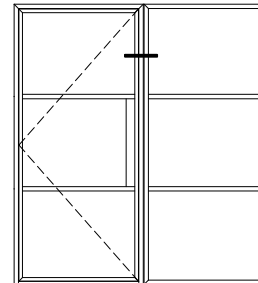
Do Not Scale From This Drawing

Detail 7A



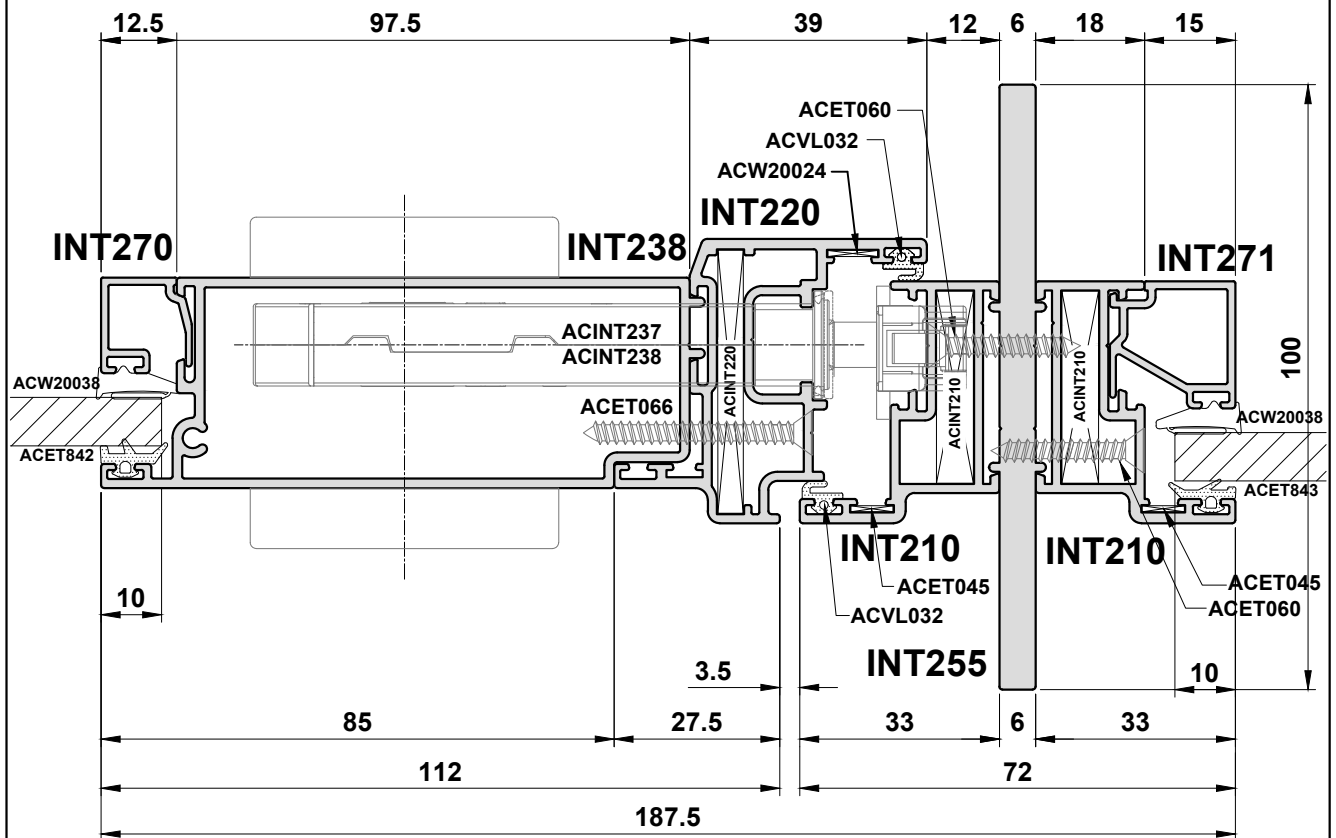
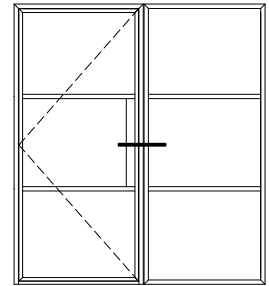
Do Not Scale From This Drawing

Detail 7B



Do Not Scale From This Drawing

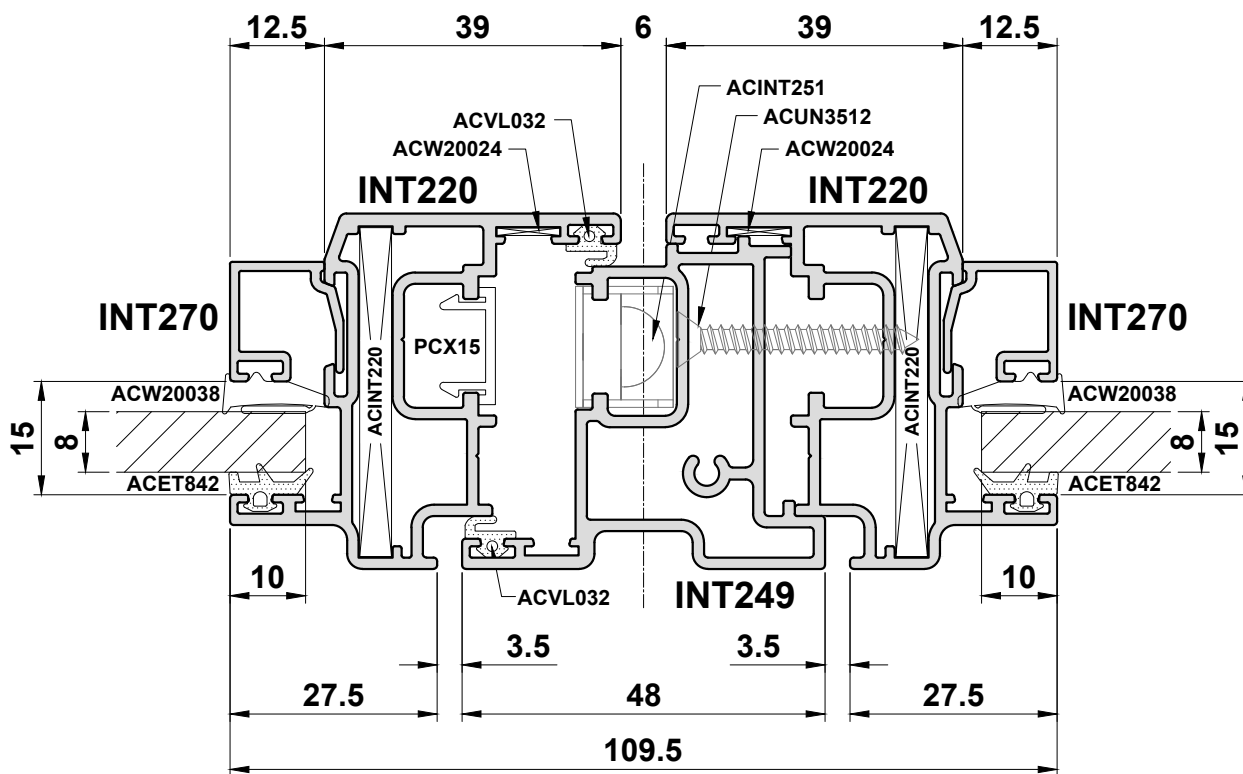
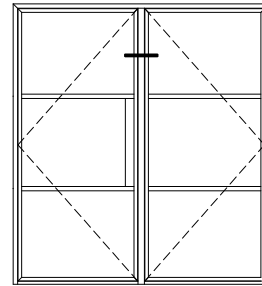
Detail 8



Scale 1:0.8

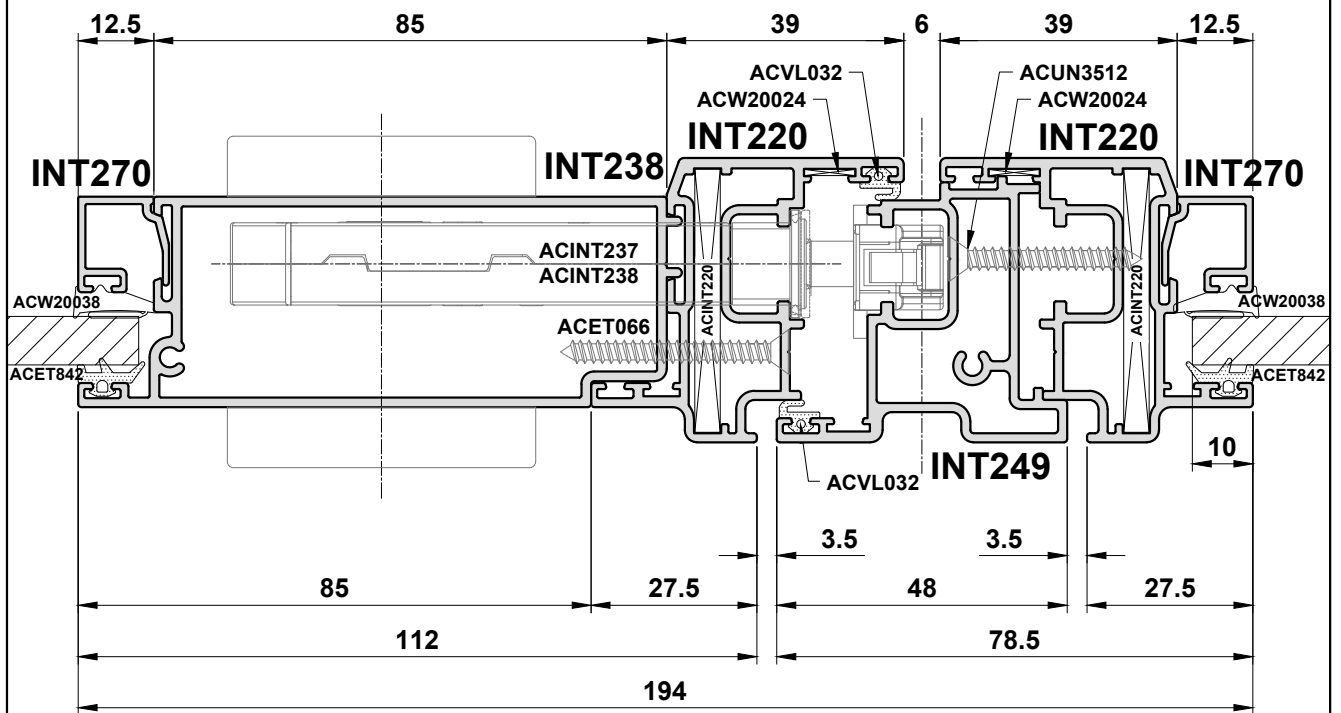
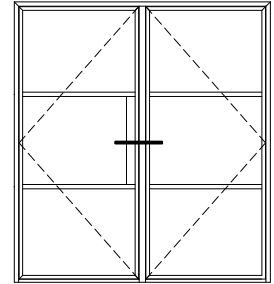
Do Not Scale From This Drawing

Detail 9



Do Not Scale From This Drawing

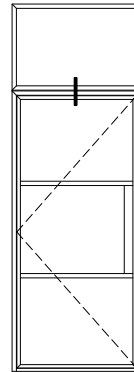
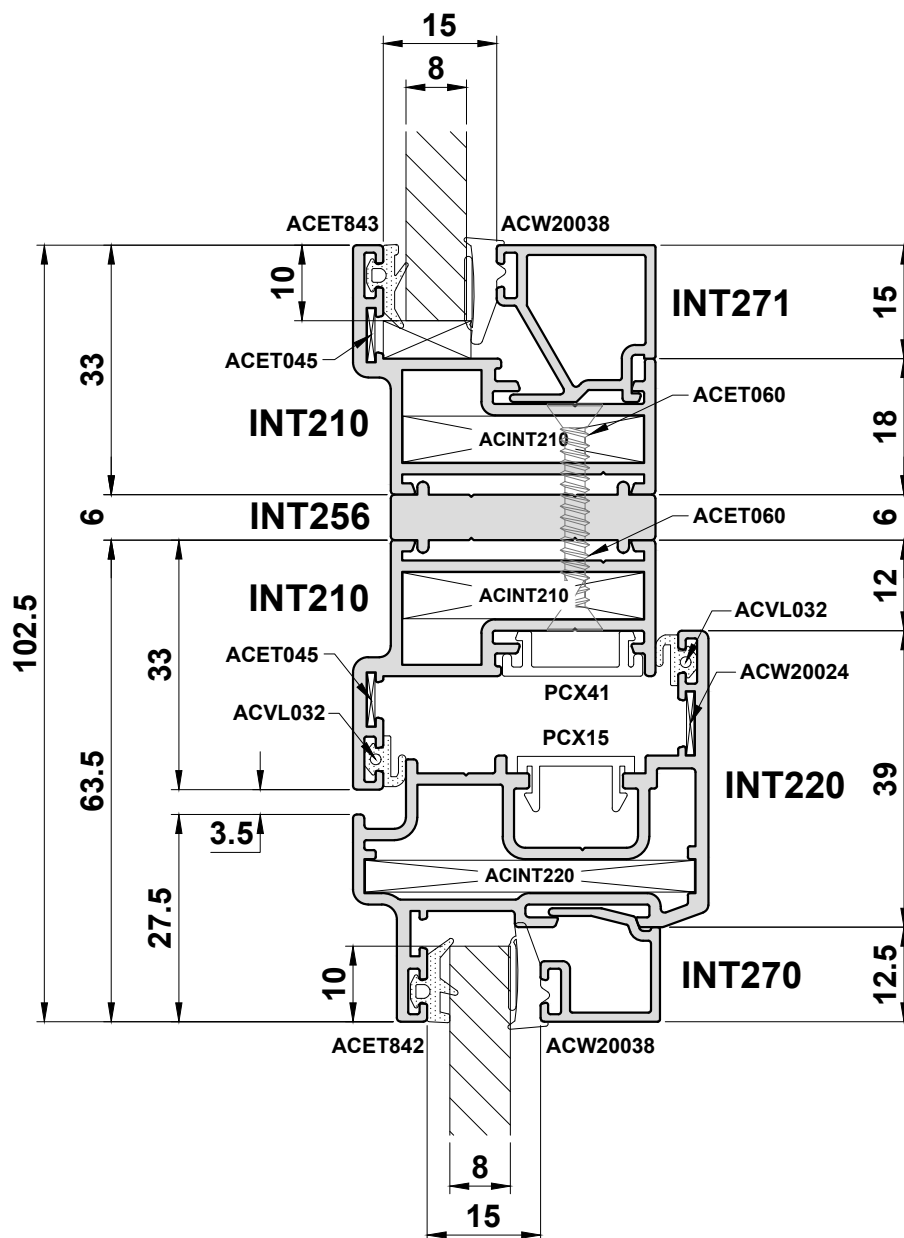
Detail 10



Scale 1:0.8

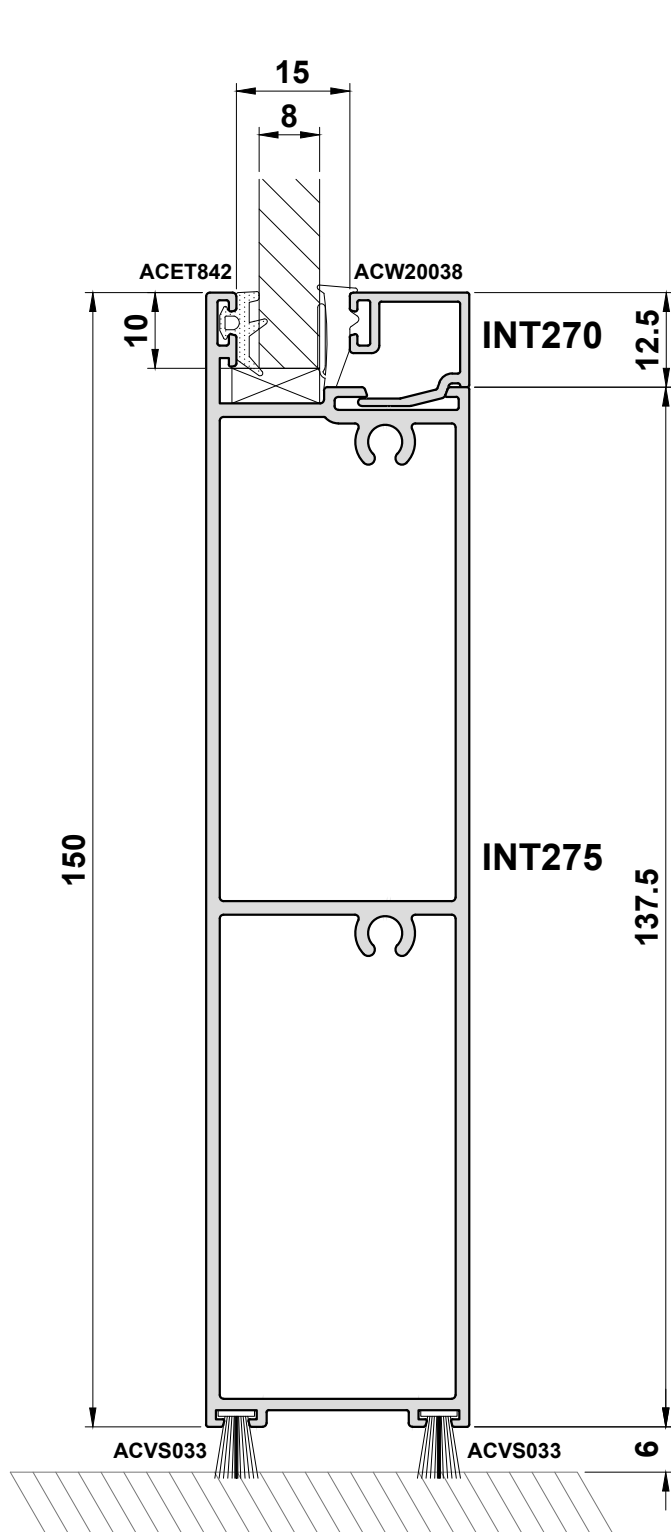
Do Not Scale From This Drawing

Detail 11

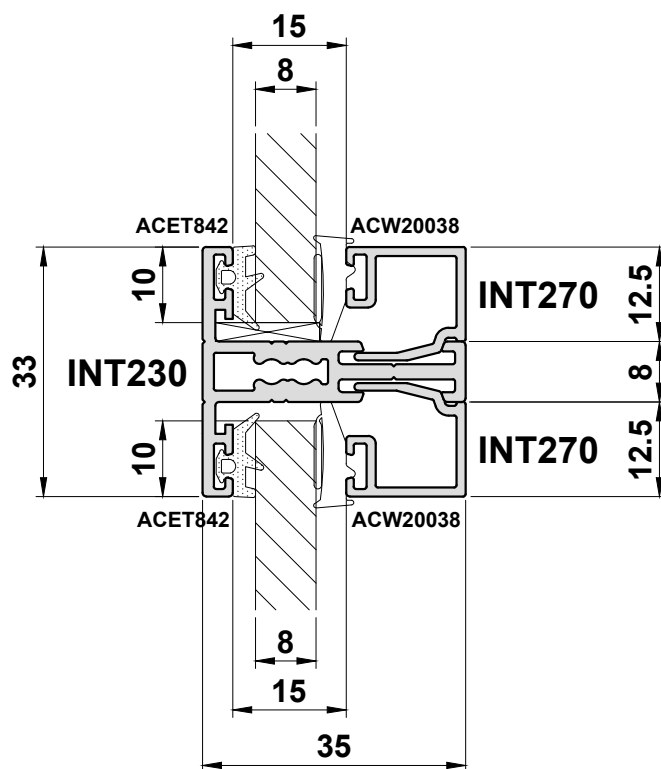
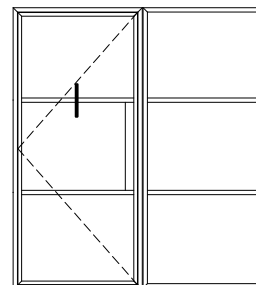


Do Not Scale From This Drawing

Detail 12

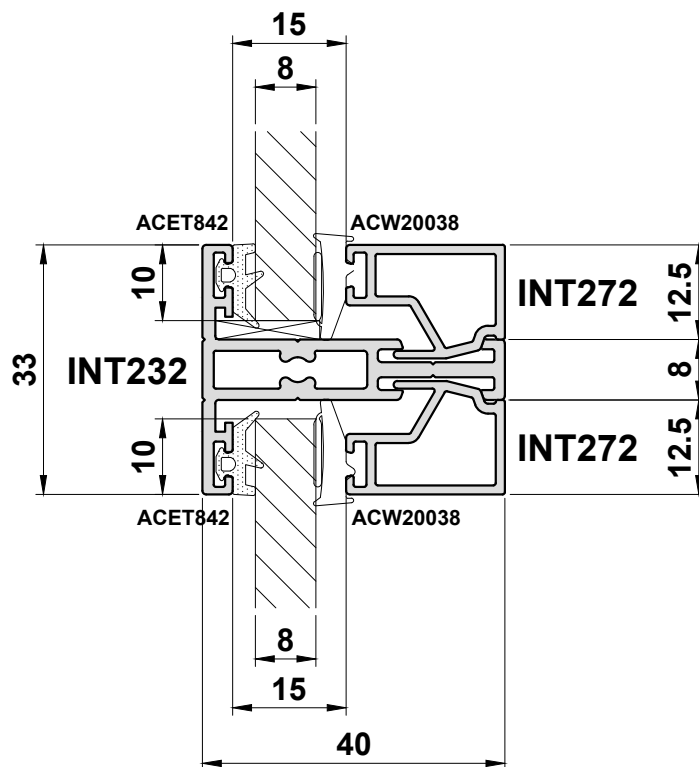
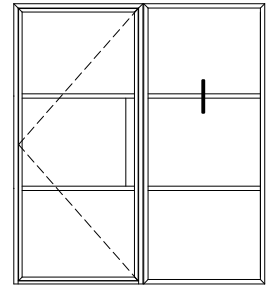


Do Not Scale From This Drawing



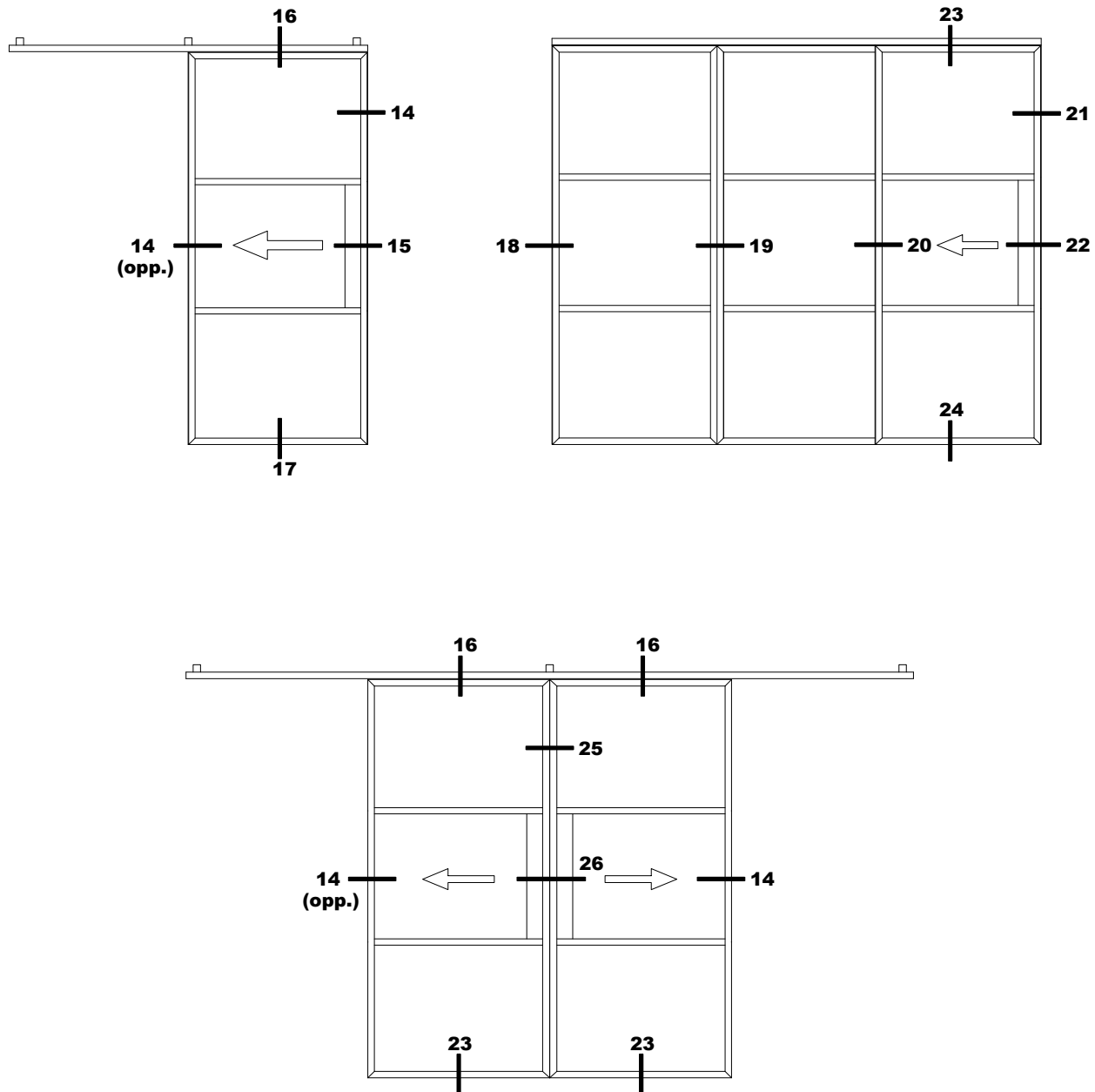
Do Not Scale From This Drawing

Detail 13B



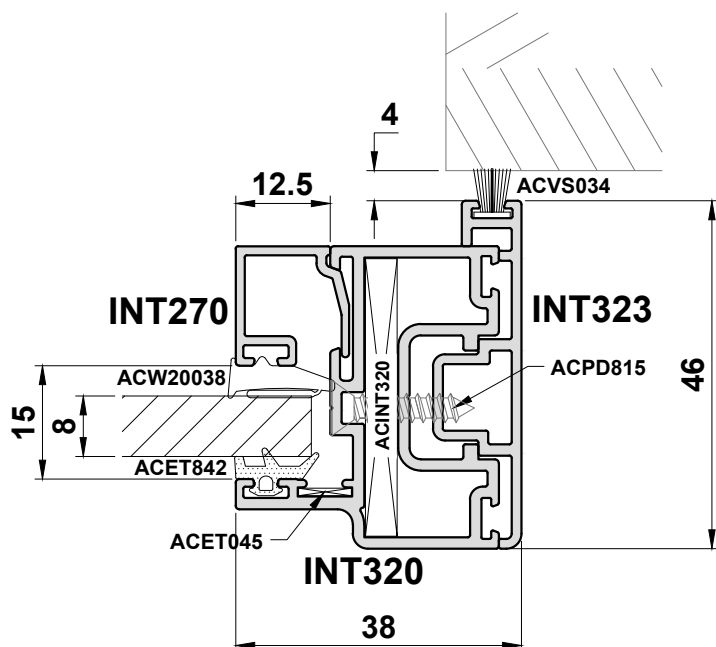
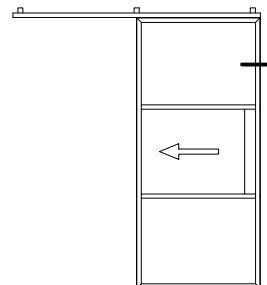
Do Not Scale From This Drawing

Sliding Door



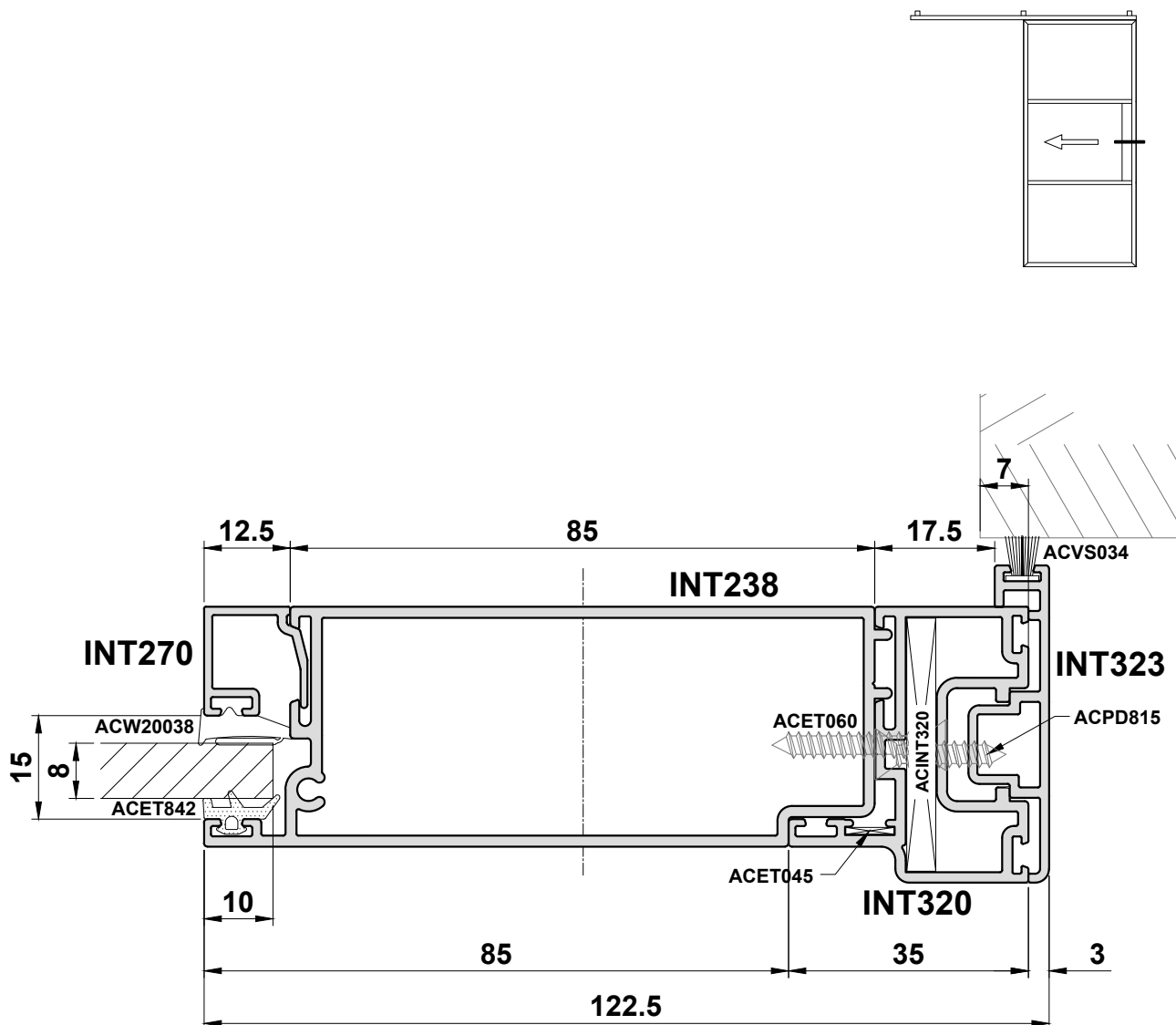
Do Not Scale From This Drawing

Detail 14



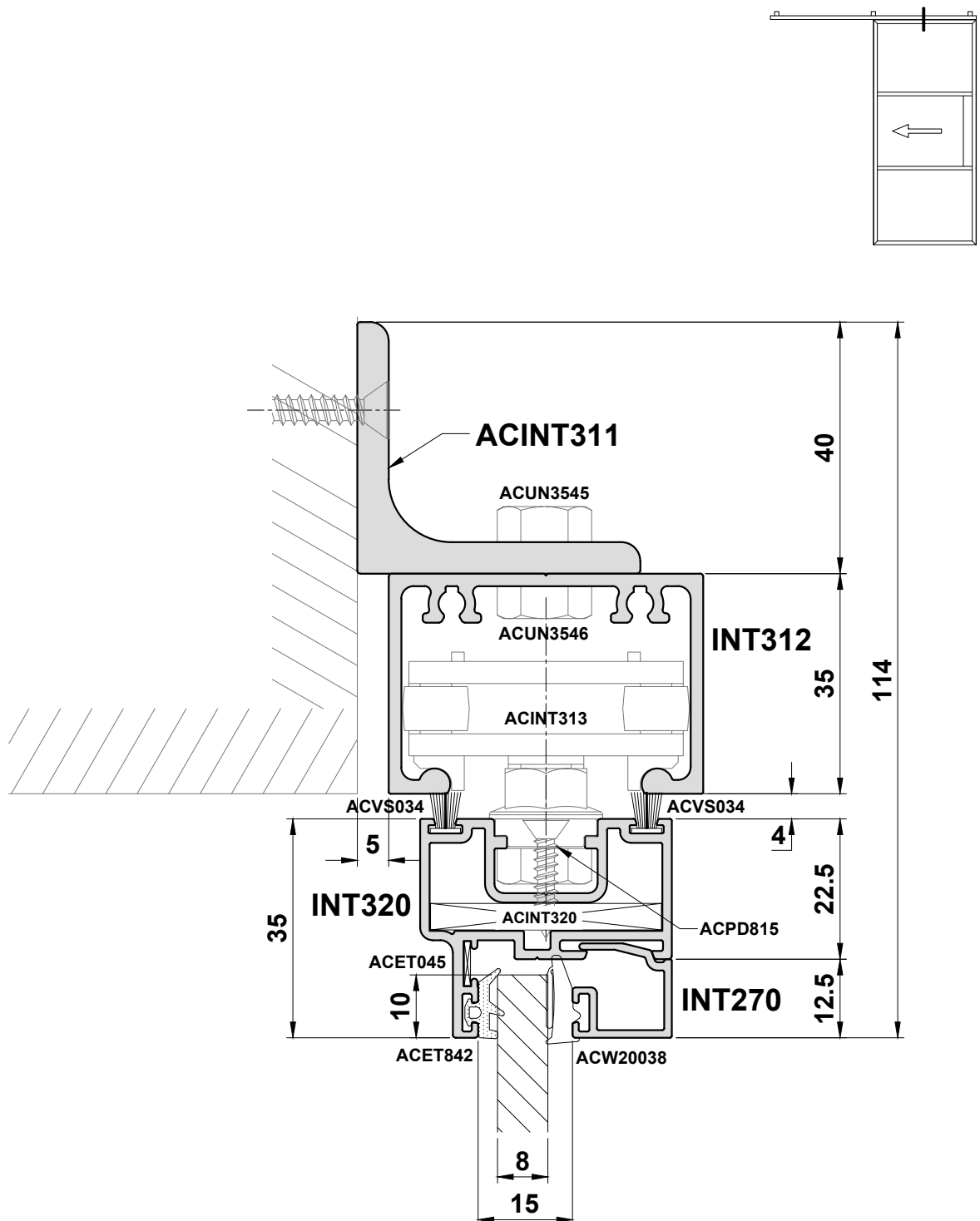
Do Not Scale From This Drawing

Detail 15



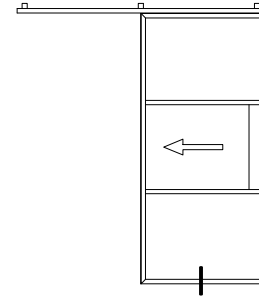
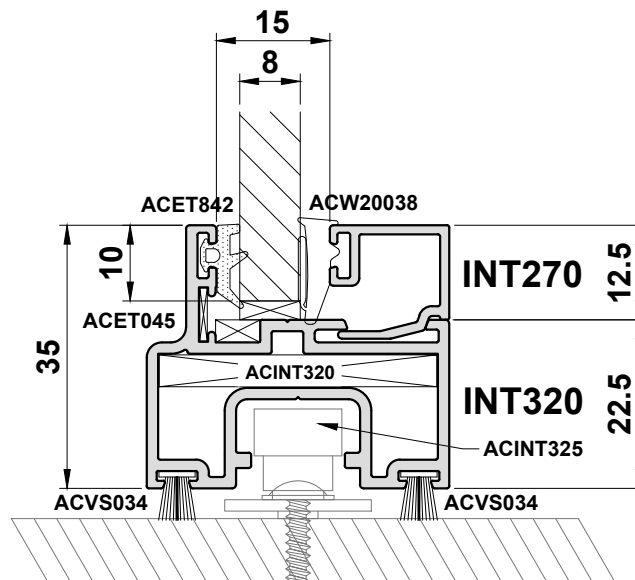
Do Not Scale From This Drawing

Detail 16



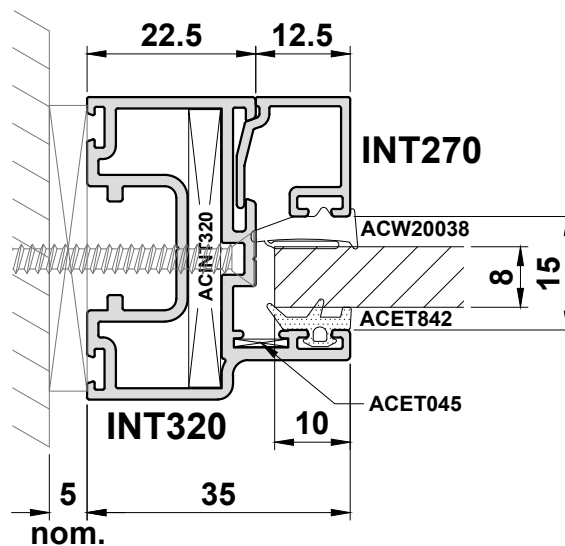
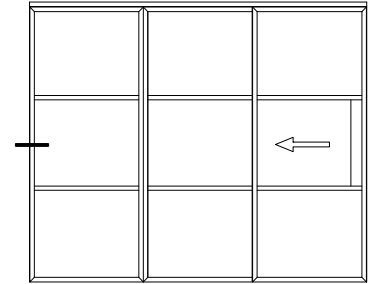
Do Not Scale From This Drawing

Detail 17



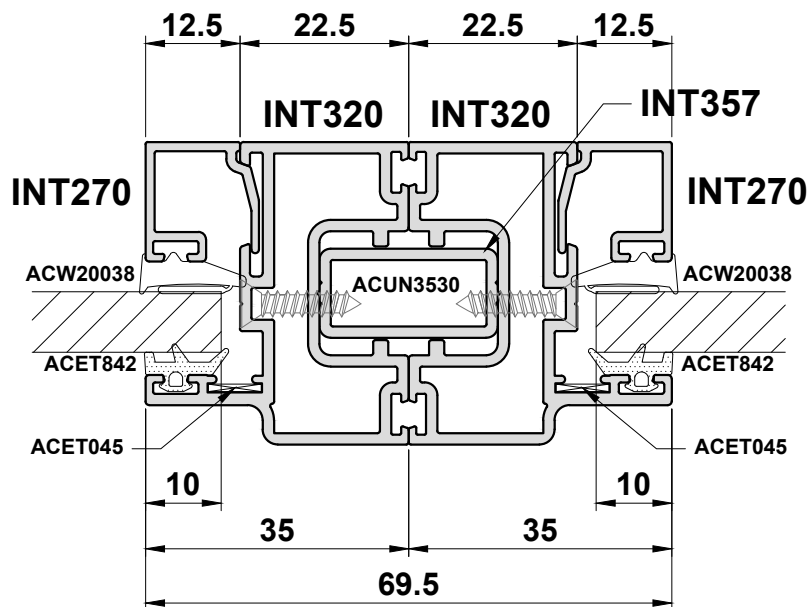
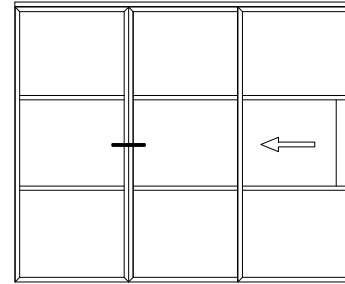
Do Not Scale From This Drawing

Detail 18



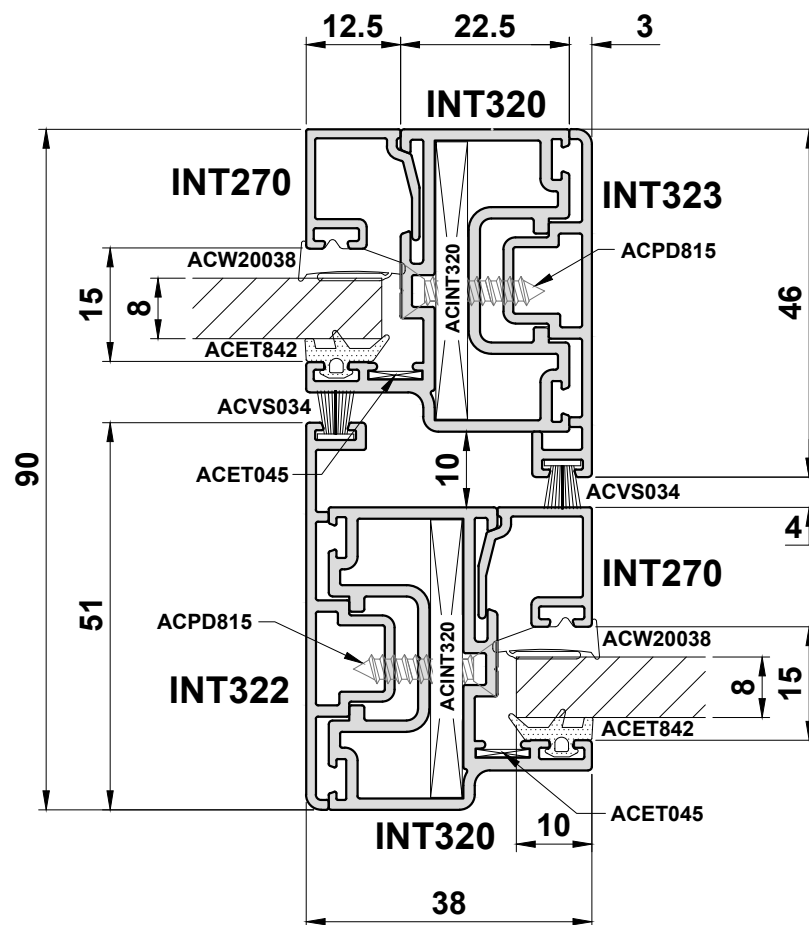
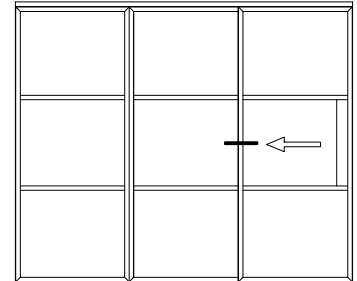
Do Not Scale From This Drawing

Detail 19



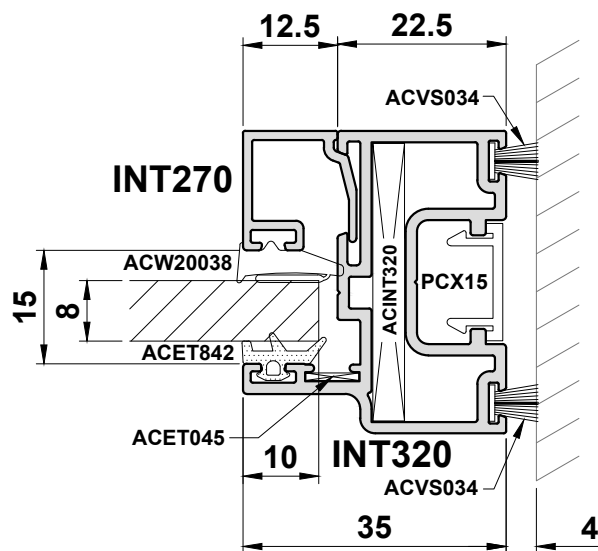
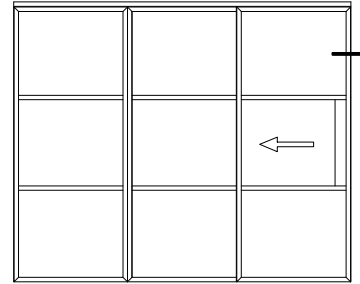
Do Not Scale From This Drawing

Detail 20



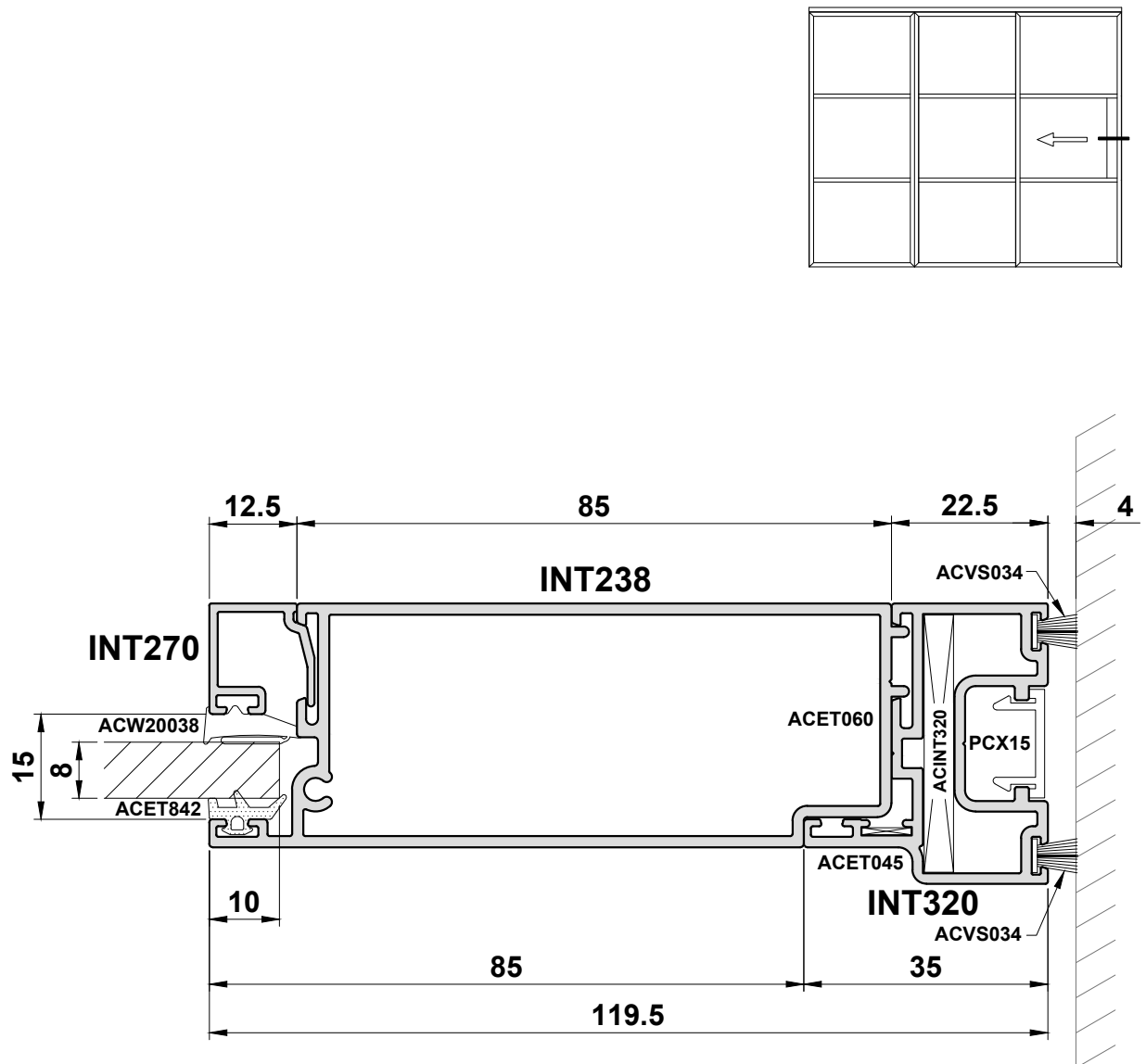
Do Not Scale From This Drawing

Detail 21



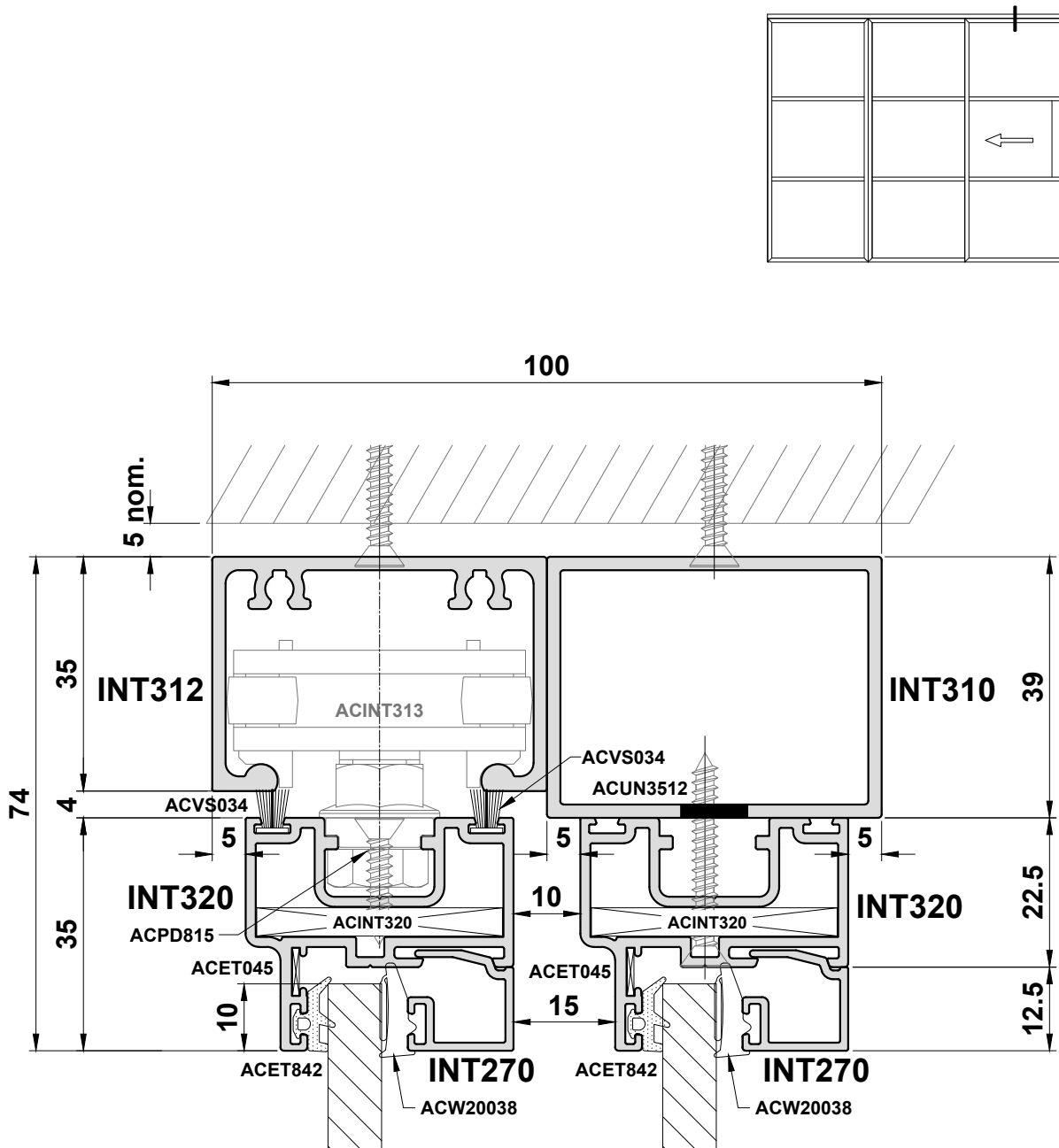
Do Not Scale From This Drawing

Detail 22



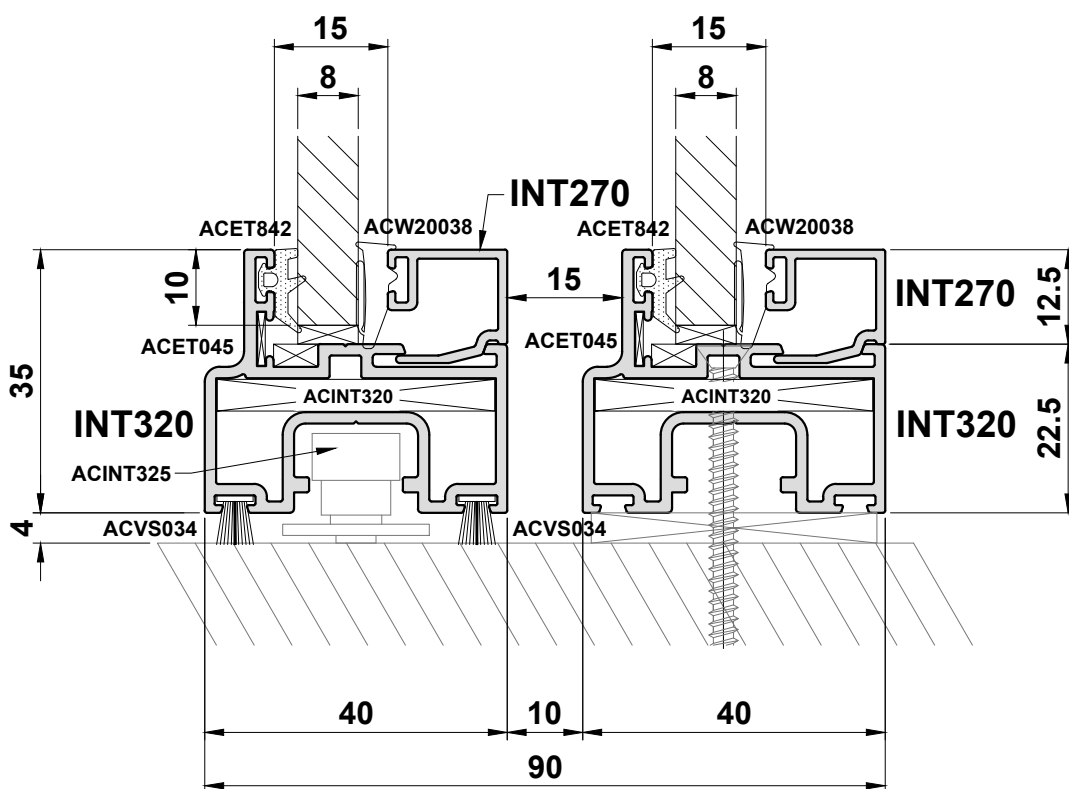
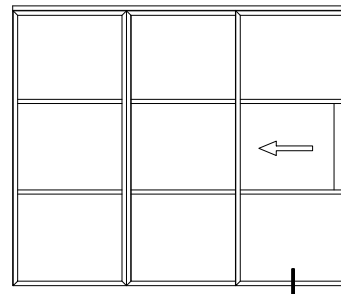
Do Not Scale From This Drawing

Detail 23



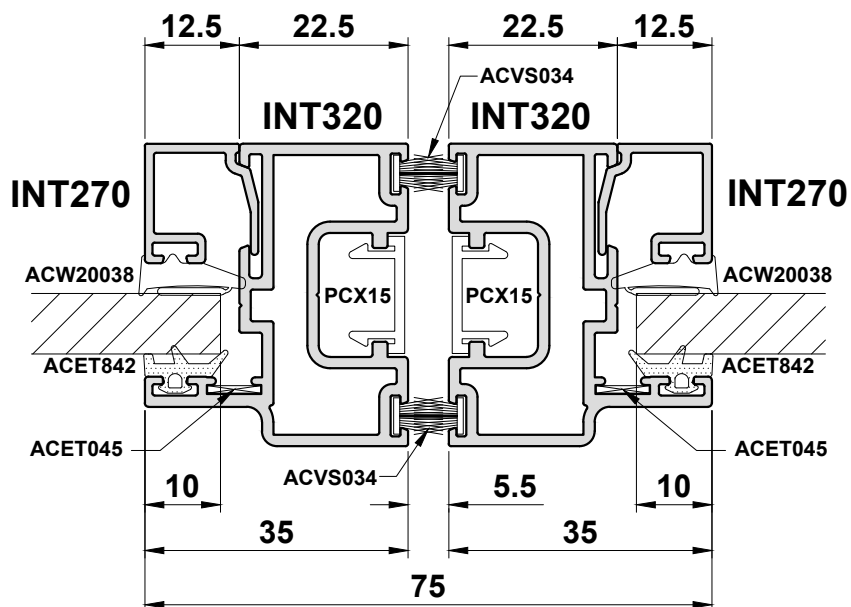
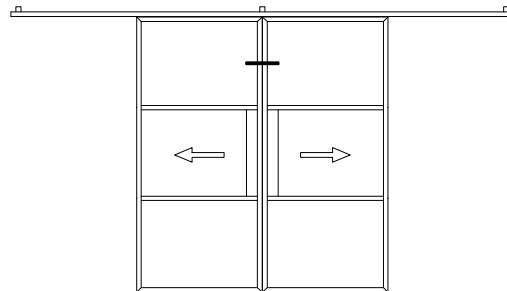
Do Not Scale From This Drawing

Detail 24



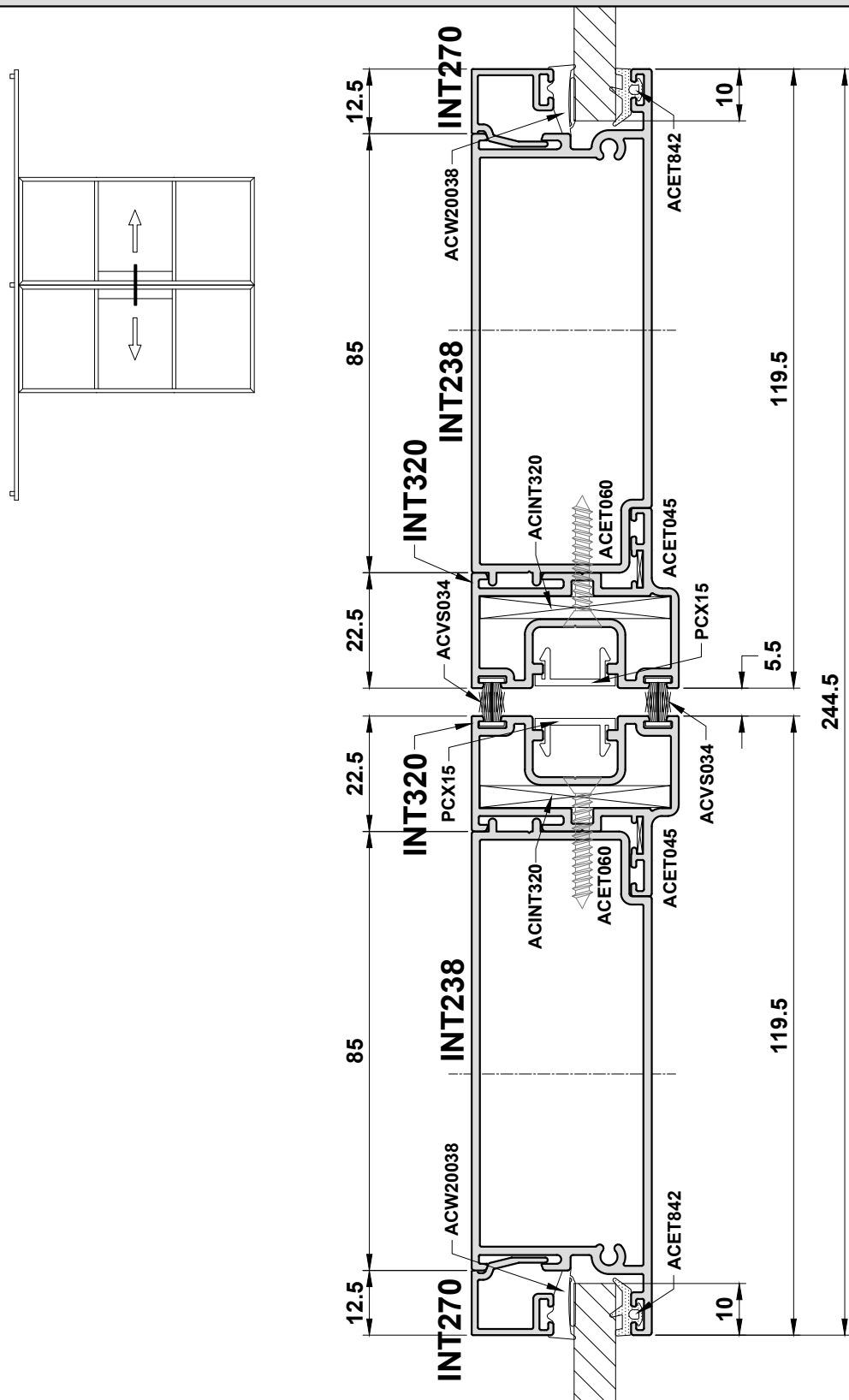
Do Not Scale From This Drawing

Detail 25



Do Not Scale From This Drawing

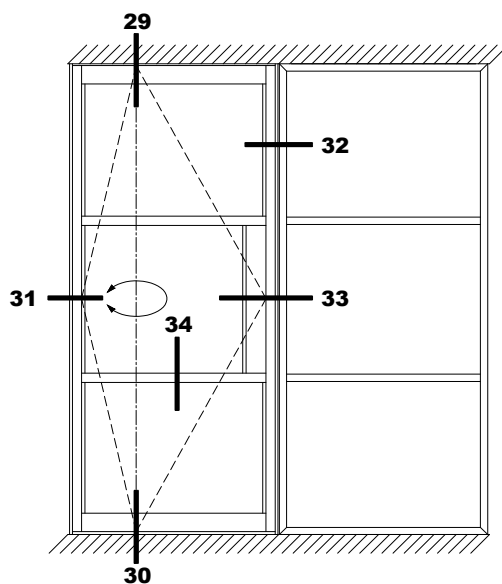
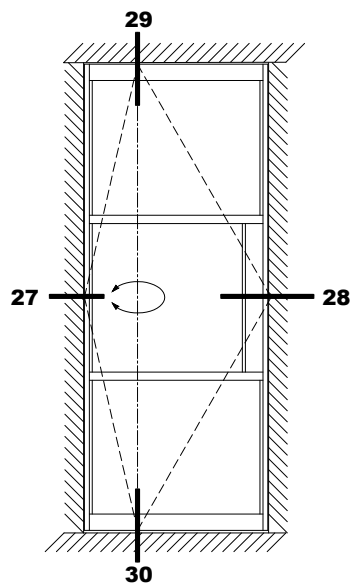
Detail 26



Scale 1:0.8

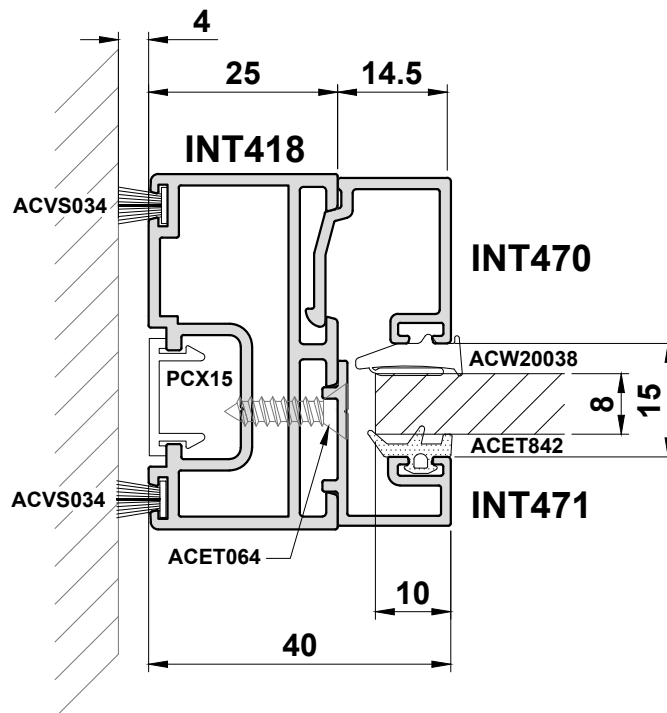
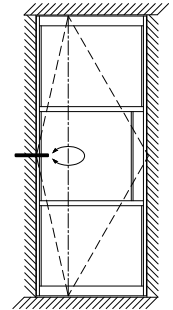
Do Not Scale From This Drawing

Pivot Door



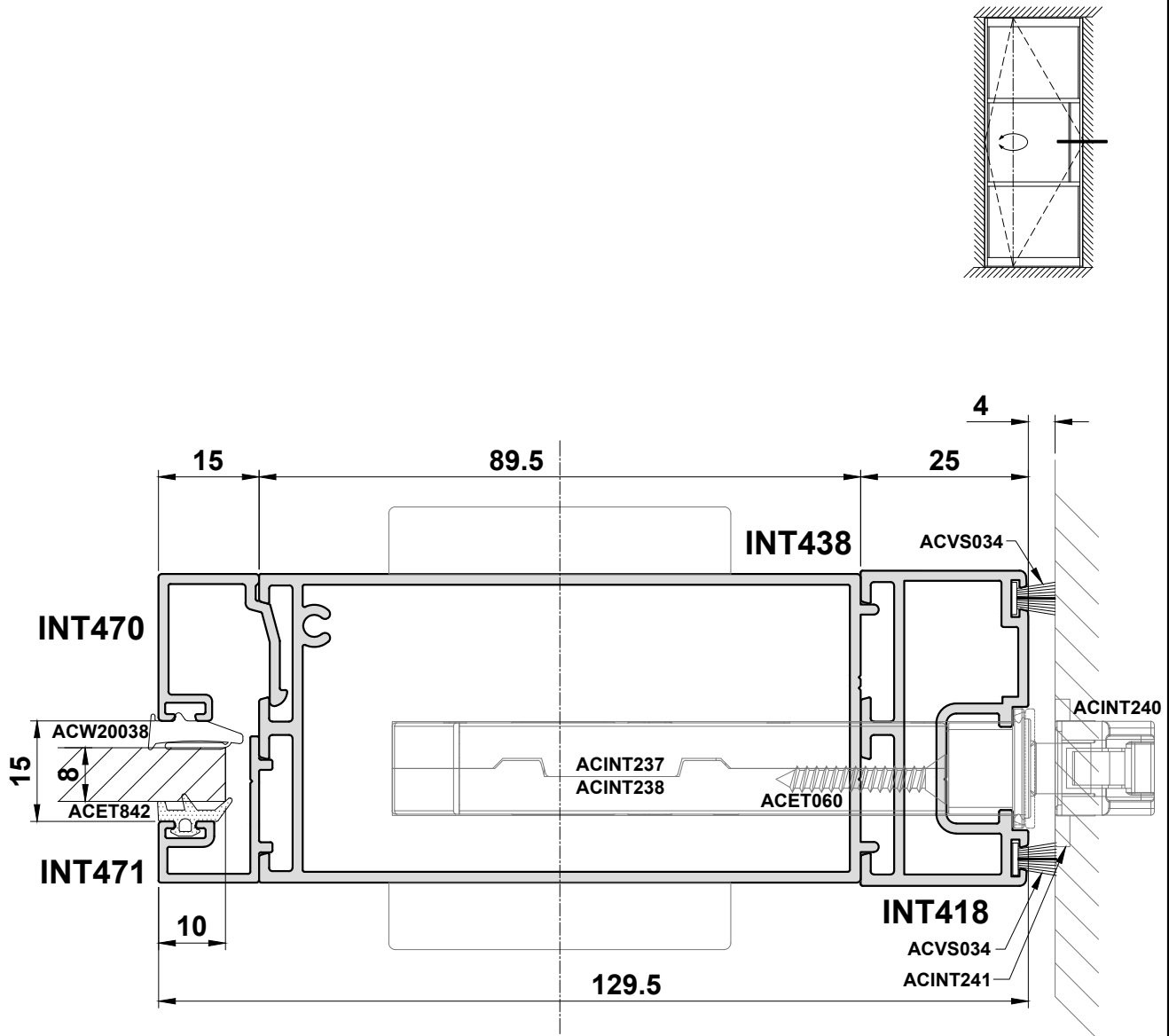
Do Not Scale From This Drawing

Detail 27



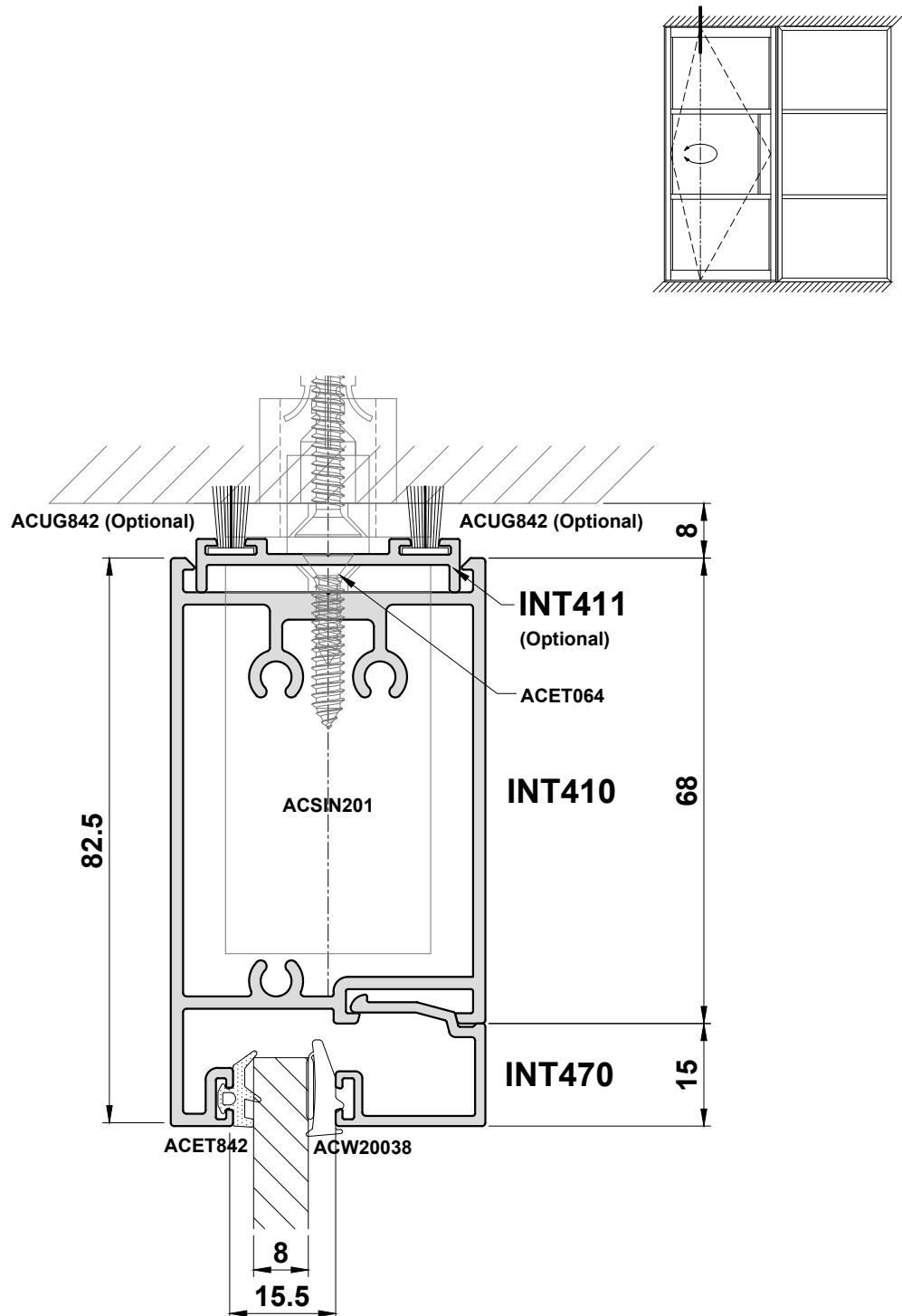
Do Not Scale From This Drawing

Detail 28



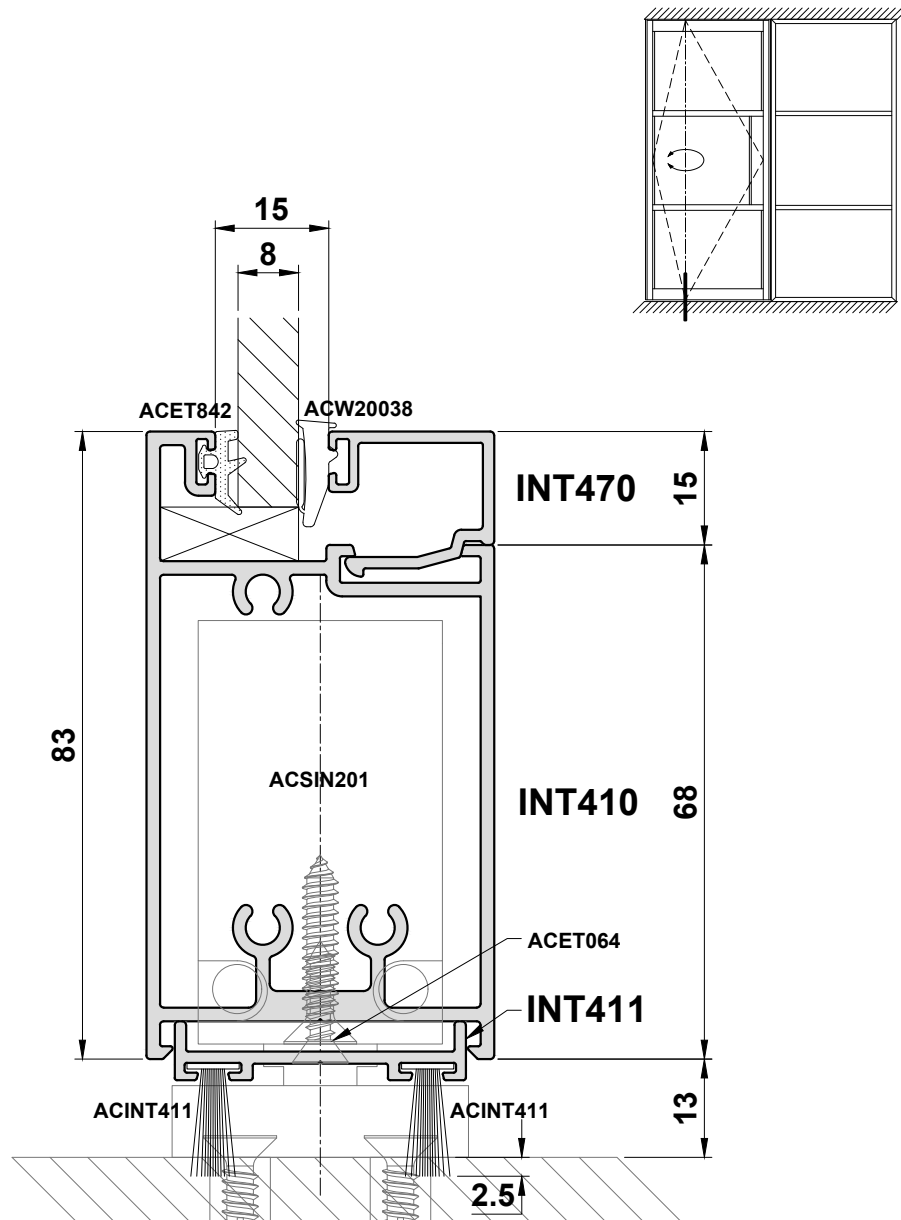
Do Not Scale From This Drawing

Detail 29



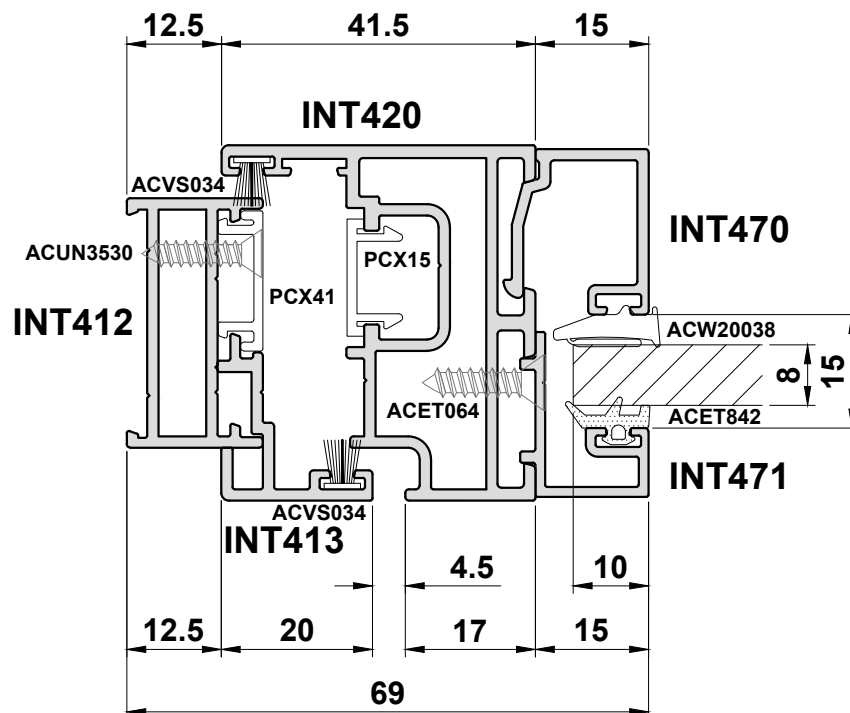
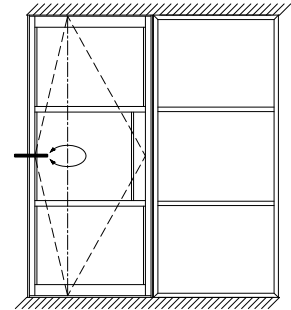
Do Not Scale From This Drawing

Detail 30



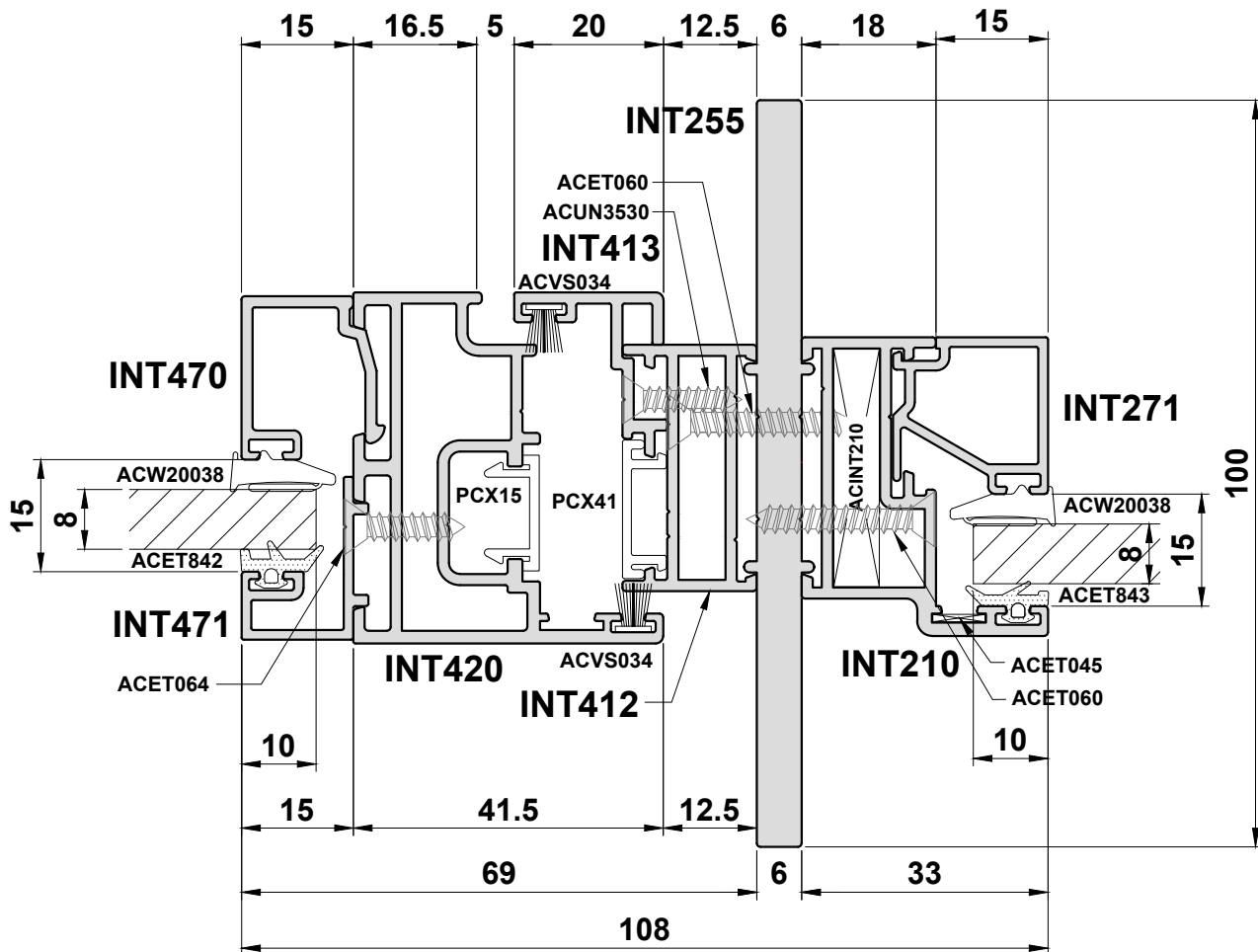
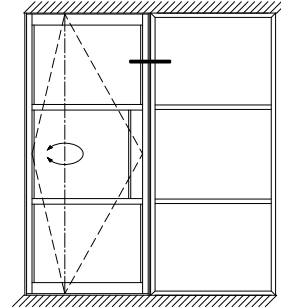
Do Not Scale From This Drawing

Detail 31



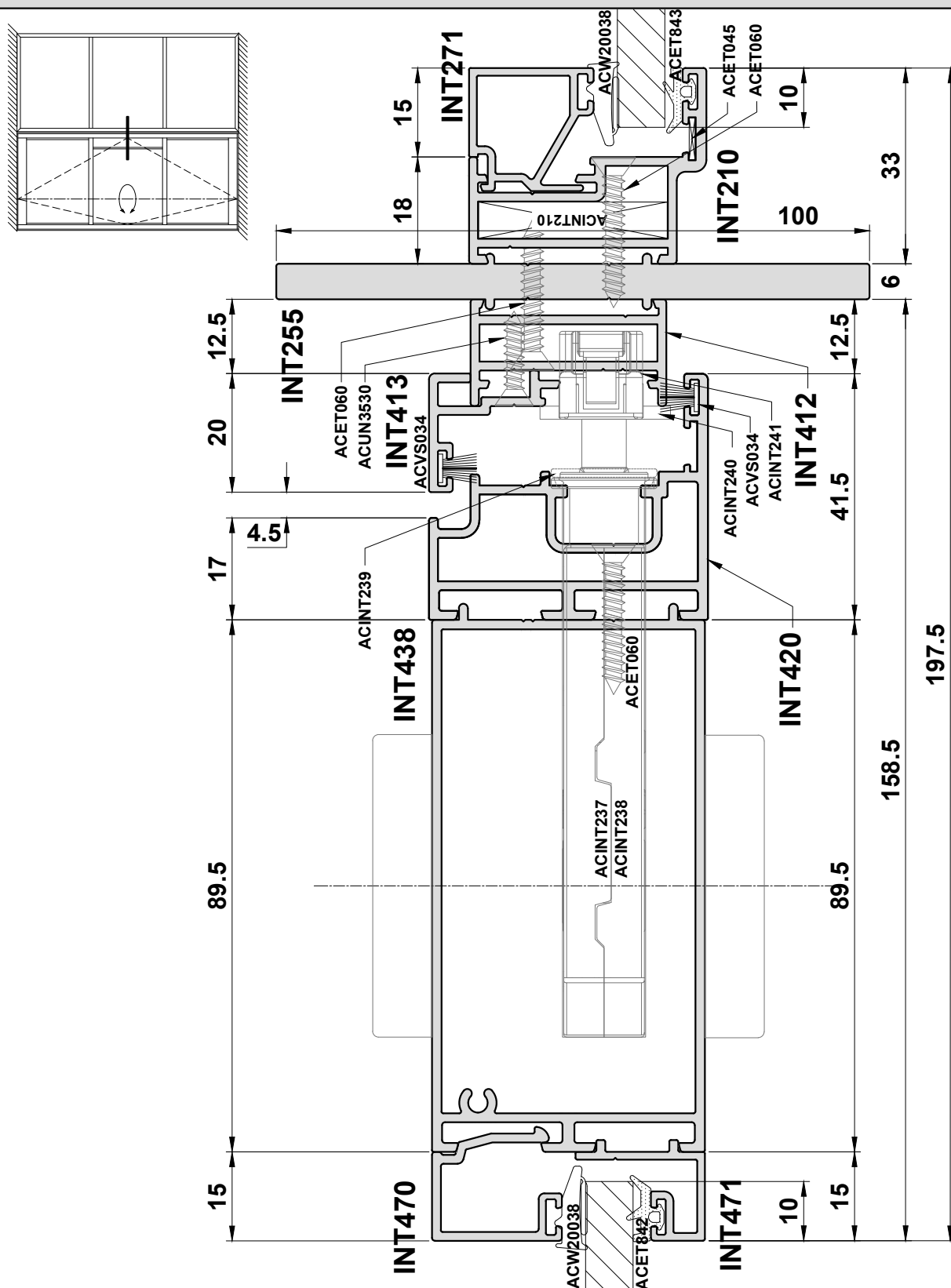
Do Not Scale From This Drawing

Detail 32



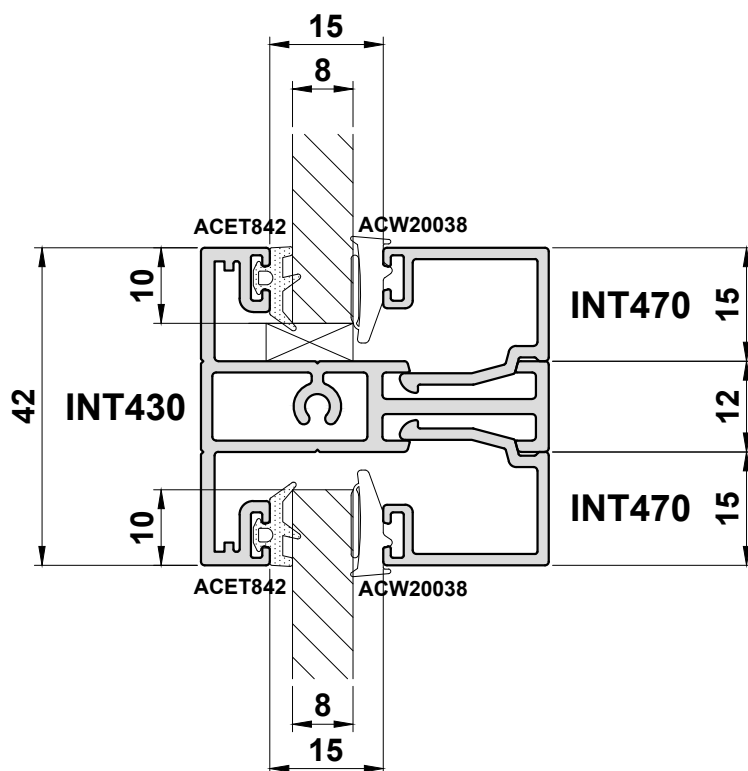
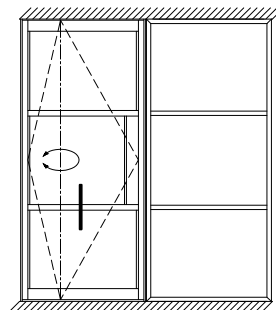
Do Not Scale From This Drawing

Detail 33



Do Not Scale From This Drawing

Detail 34



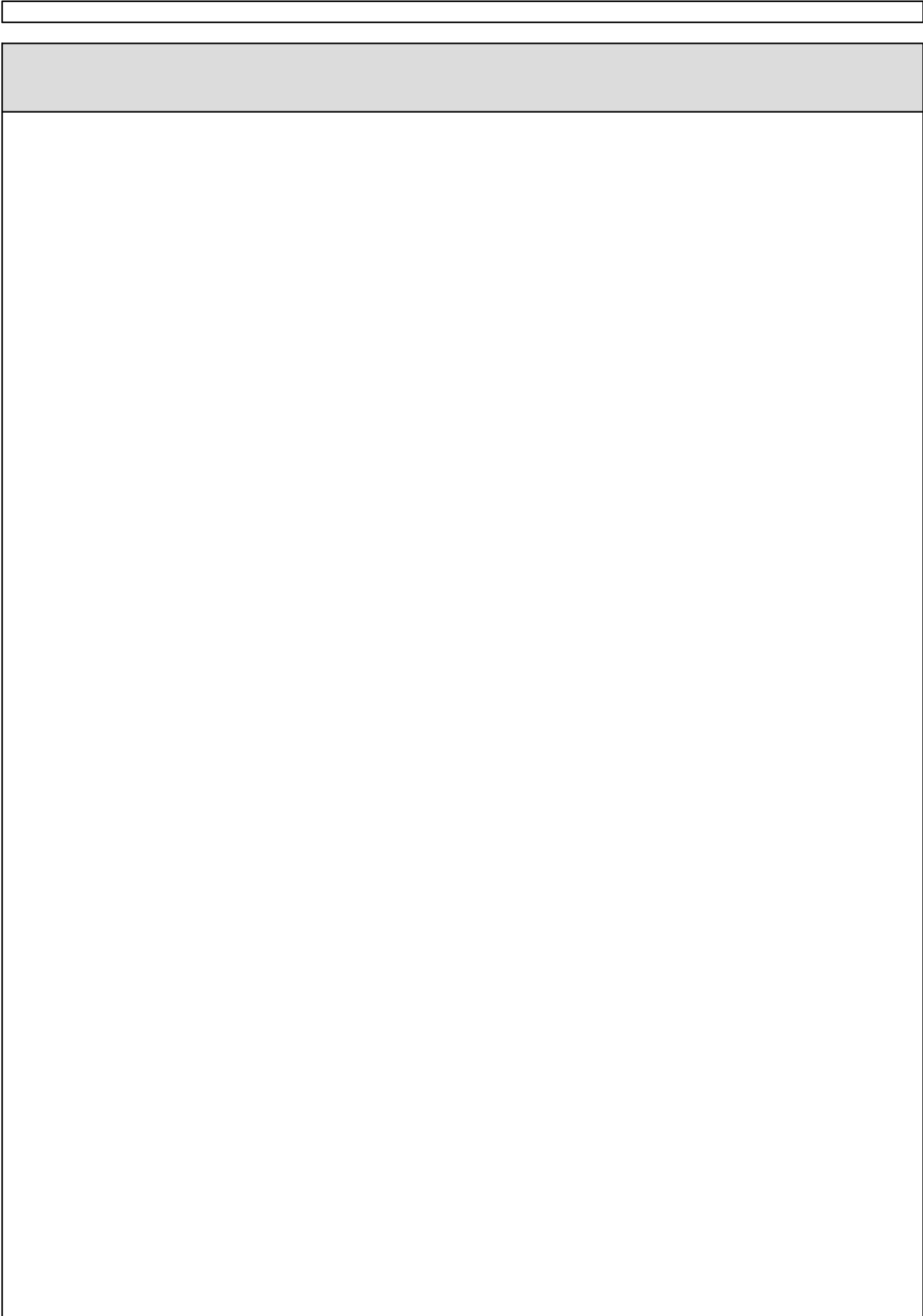
Do Not Scale From This Drawing

Section D

Statics

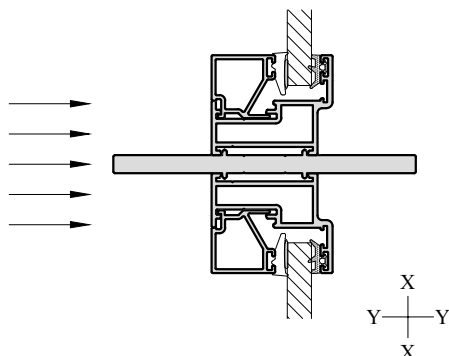
Fixed Screen - Couplers

General Size Limitations are shown on Page A03.



Section D

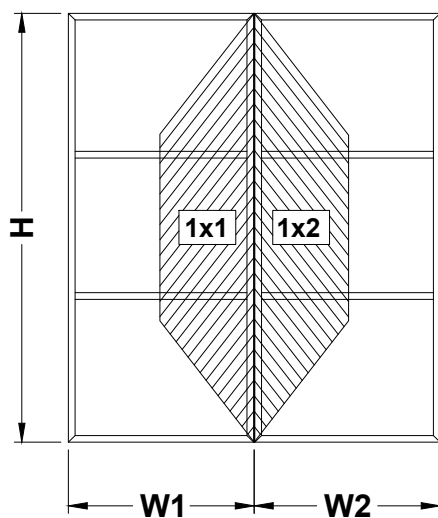
GENERAL INFORMATION - STATICS



The position of the axes is an indication for the use and application of the moments of inertia (I_x and I_y) and the section modulus (W_x and W_y). We always choose the values of the axis perpendicular to the load to resist it.

To resist the loads we use the values I_x and W_x .

EXAMPLE



$H = 210\text{cm}$

$W1 = 100\text{cm}$

$W2 = 100\text{cm}$

$P = 800\text{ Pa}$

- 1) Determine I_{xx} value for the couplers (if required) using the Specification Wizard

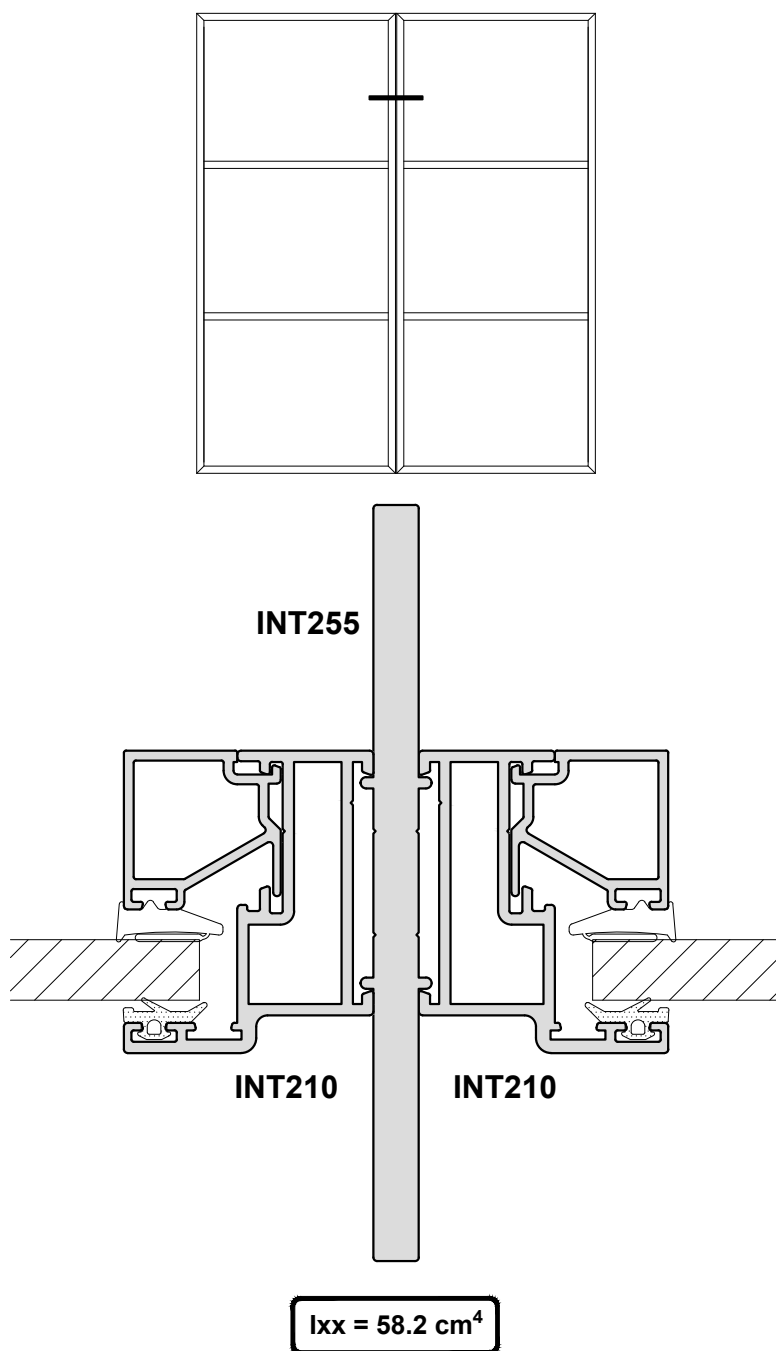
$I_{xx} = 27.6\text{ cm}^4$

- 2) Determine profile combinations

Do Not Scale From This Drawing

Section D

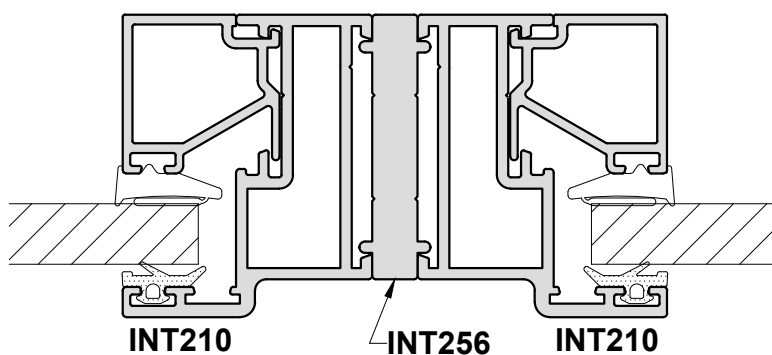
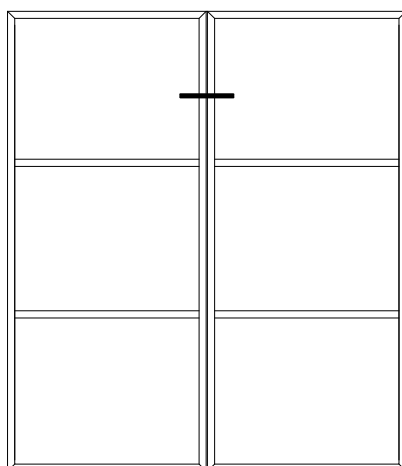
PROFILE COMBINATIONS - IX - VERTICAL COUPLER : STATICS



Do Not Scale From This Drawing

Section D

PROFILE COMBINATIONS - IX - VERTICAL COUPLER : STATICS

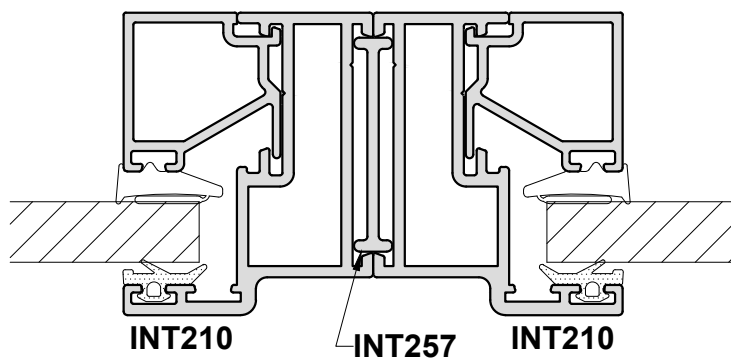
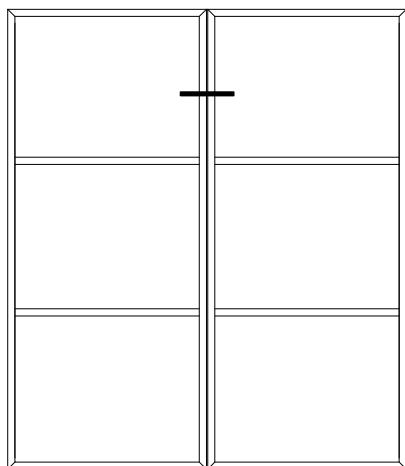


$$I_{xx} = 10.4 \text{ cm}^4$$

Do Not Scale From This Drawing

Section D

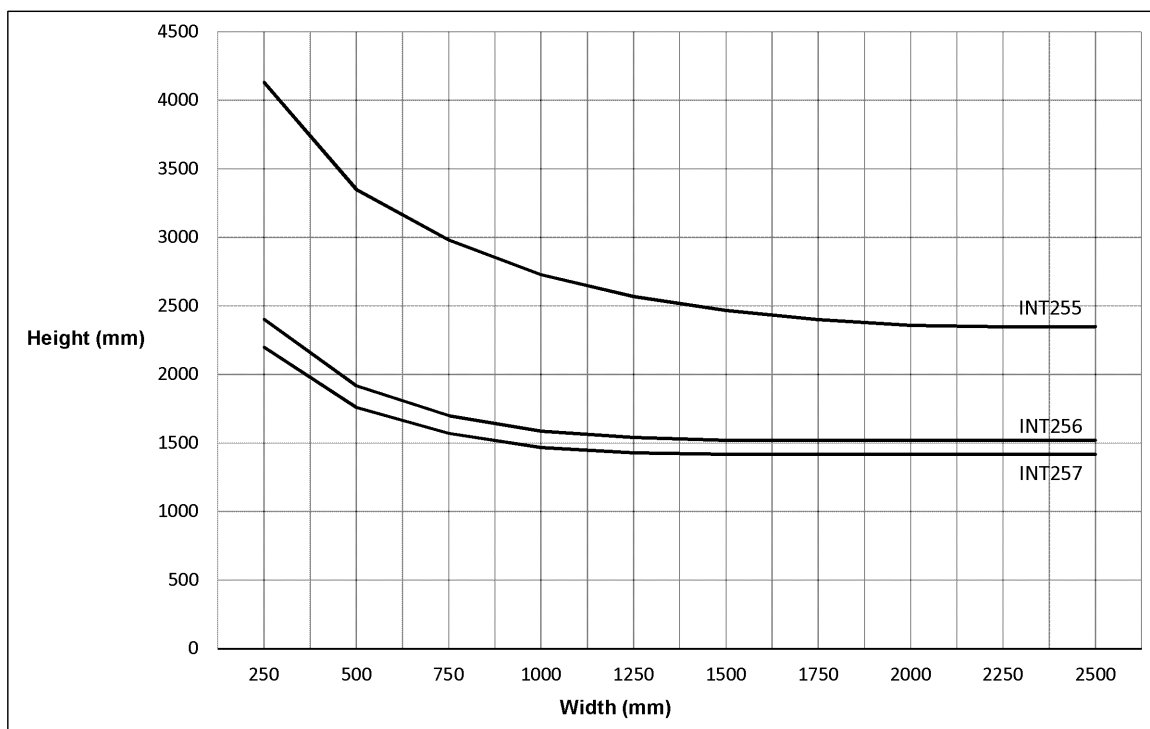
PROFILE COMBINATIONS - IX - VERTICAL COUPLER : STATICS



$$I_{xx} = 8.1 \text{ cm}^4$$

Section D

RECOMMENDED DESIGN FIXED SCREENS LIMITATIONS



IMPORTANT NOTE:

Fixed screen sizes are based on a coupler limit at 0.8kN/m.

Size limits can vary depending on application and the category of building.

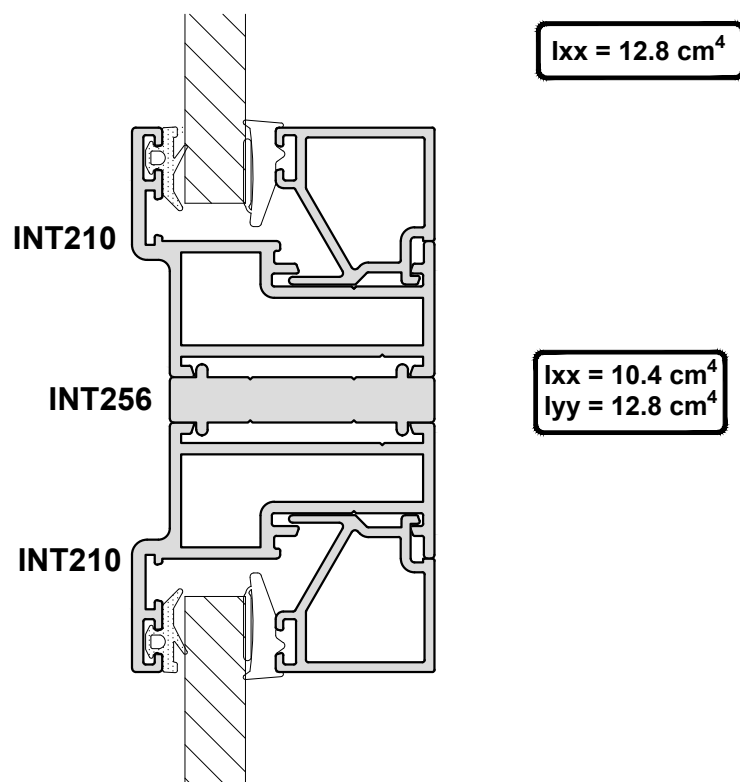
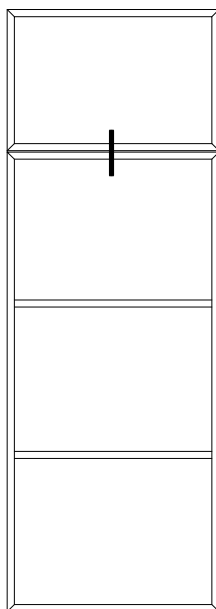
Please refer to Approved Document K and CWCT for further information on the required loading for your project.

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

Do Not Scale From This Drawing

Section D

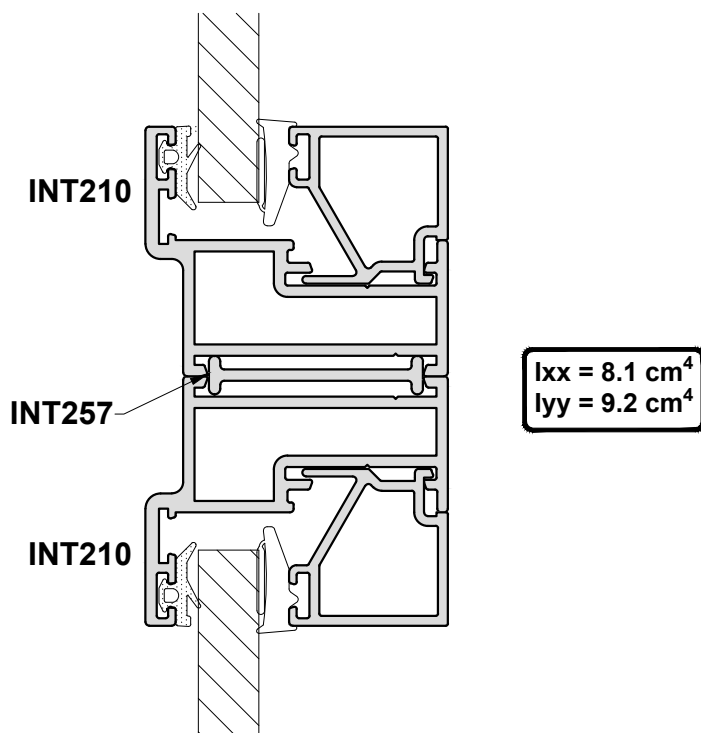
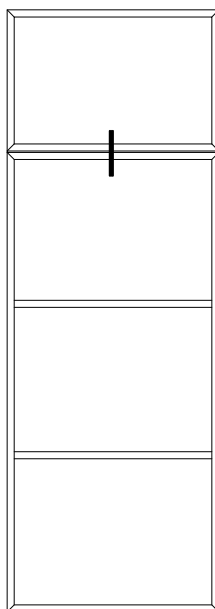
PROFILE COMBINATIONS - IX - HORIZONTAL COUPLER : STATICS



Do Not Scale From This Drawing

Section D

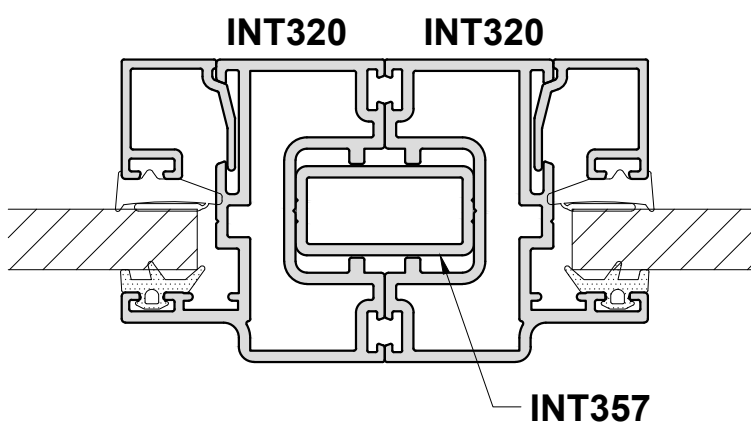
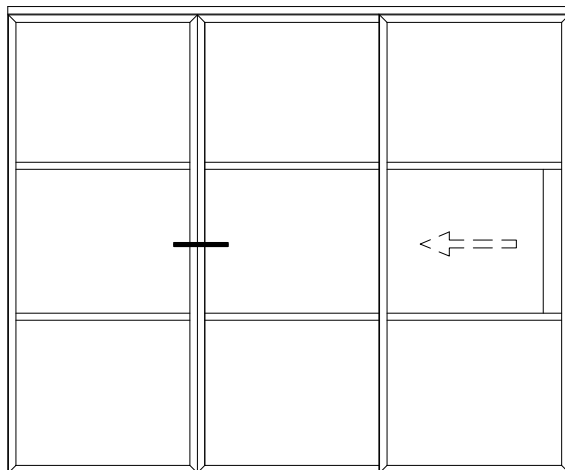
PROFILE COMBINATIONS - IX - HORIZONTAL COUPLER : STATICS



Do Not Scale From This Drawing

Section D

PROFILE COMBINATIONS - IX - VERTICAL COUPLER : STATICS



$I_{xx} = 9.6 \text{ cm}^4$

Do Not Scale From This Drawing

Section E



Construction Drawings

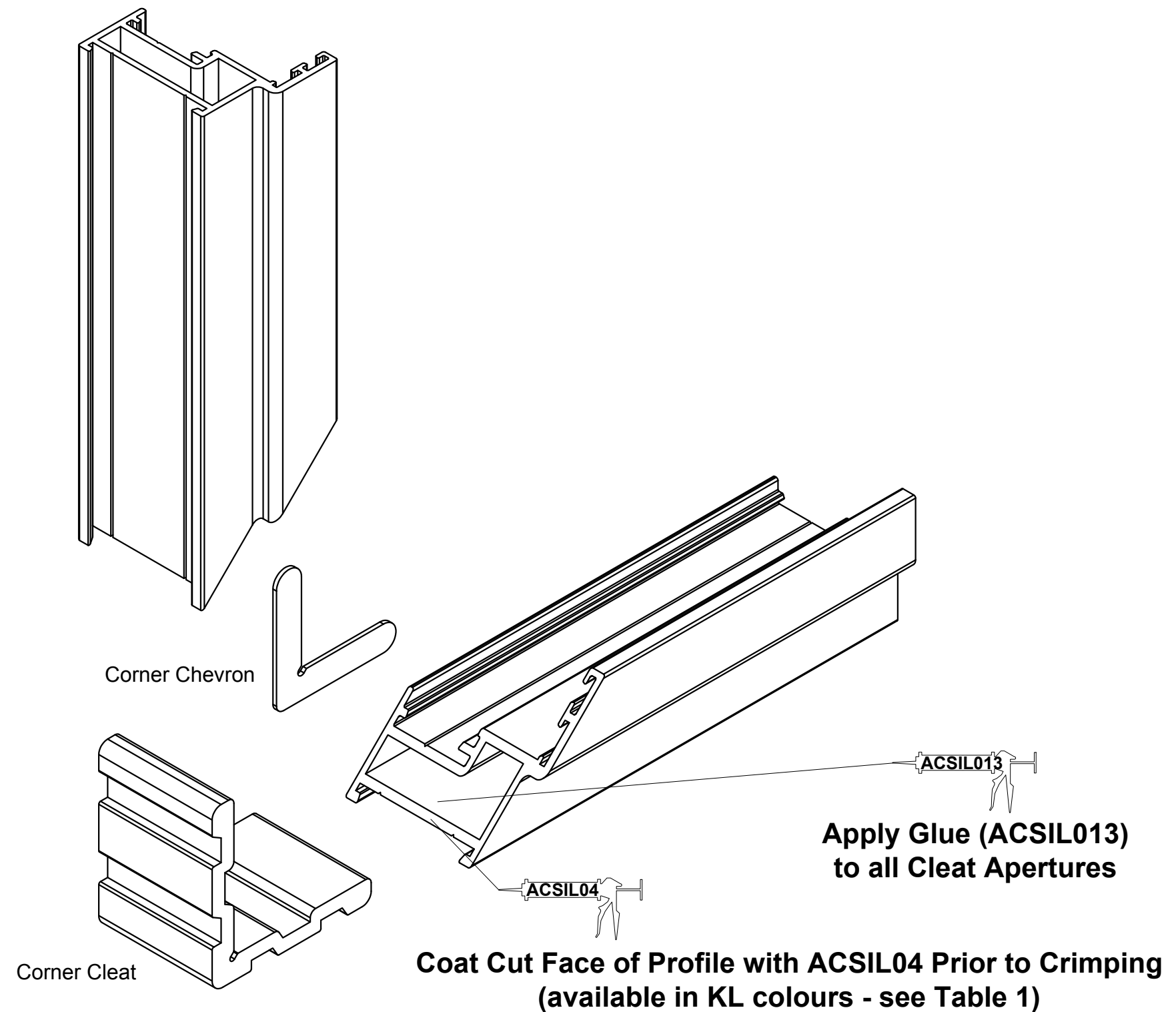
Corner Joint Details.....	E03
Crimping Details.....	E04 - E05
Transom Details.....	E06 - E07
Deep Bottom Rail Details.....	E08
Hinged Door Lock Preparation.....	E09
Pivot Door Lock Preparation.....	E10
Open In Door Hinge Details.....	E11
Open In Double Door - Bottom Detail.....	E12
Open In Double Door - Top Detail.....	E14
Sliding Door - Roller Fixing.....	E14
Pivot Door - ACSIN201 Preparation & Fixing (Top Detail).....	E15
Pivot Door - ACSIN201 Preparation & Fixing (Bottom Detail).....	E16
Glazing Details - Fixed Screens, Hinged & Sliding Doors.....	E17
Glazing Details - Pivot Doors.....	E18



CONSTRUCTION DRAWINGS

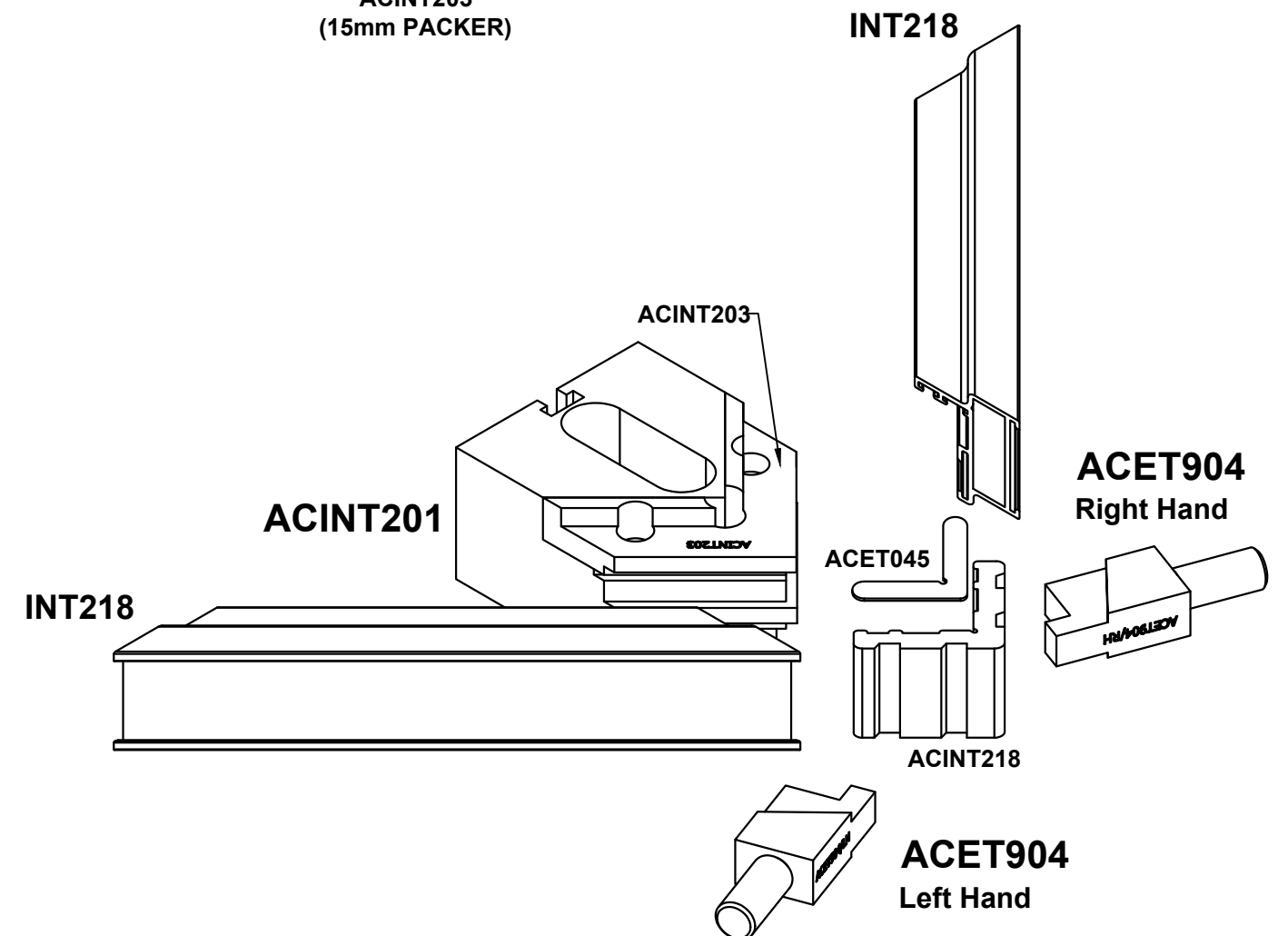
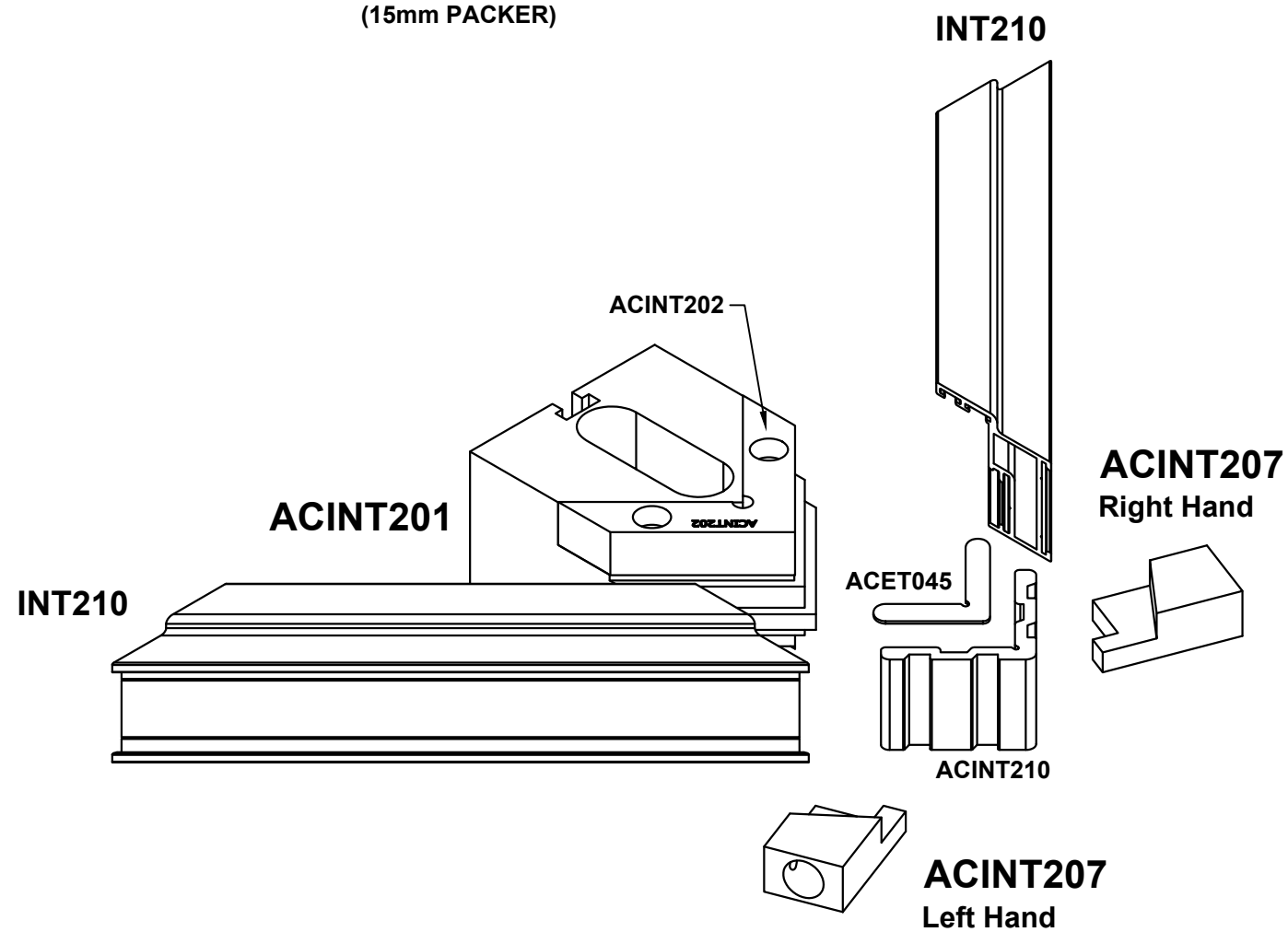
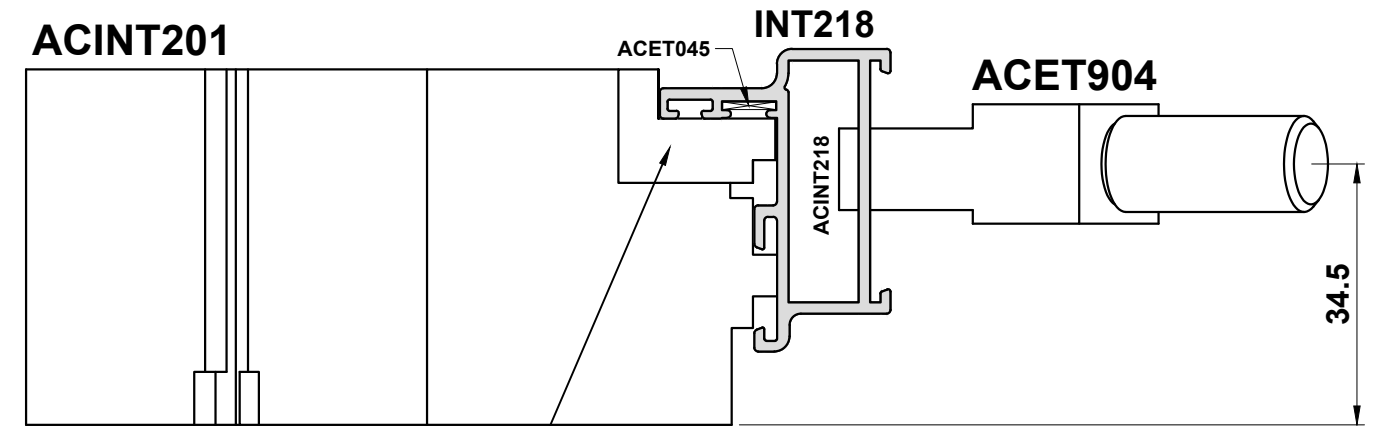
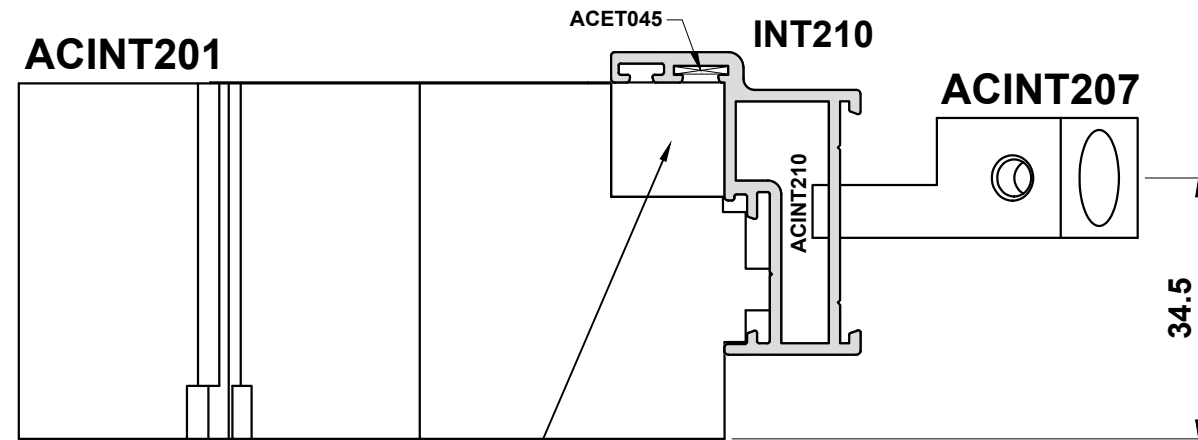
- 1. Degrease mitre sections**
- 2. Cover mitred faces with ACSIL04**
- 3. Apply ACSIL013 to cleat chamber**

Table 1	
KL Colour	Sealant Part Number
Black	ACSIL04BL
White	ACSIL04WP
Clear	ACSIL04CL
KL001	ACSIL04KL001
KL002	ACSIL04KL002
KL003	ACSIL04KL003
KL004	ACSIL04KL004
KL005	ACSIL04KL005
KL006	ACSIL04KL006
KL007	ACSIL04KL007
KL010	ACSIL04KL010
KL011	ACSIL04KL011
KL012	ACSIL04KL012
KL013	ACSIL04KL013



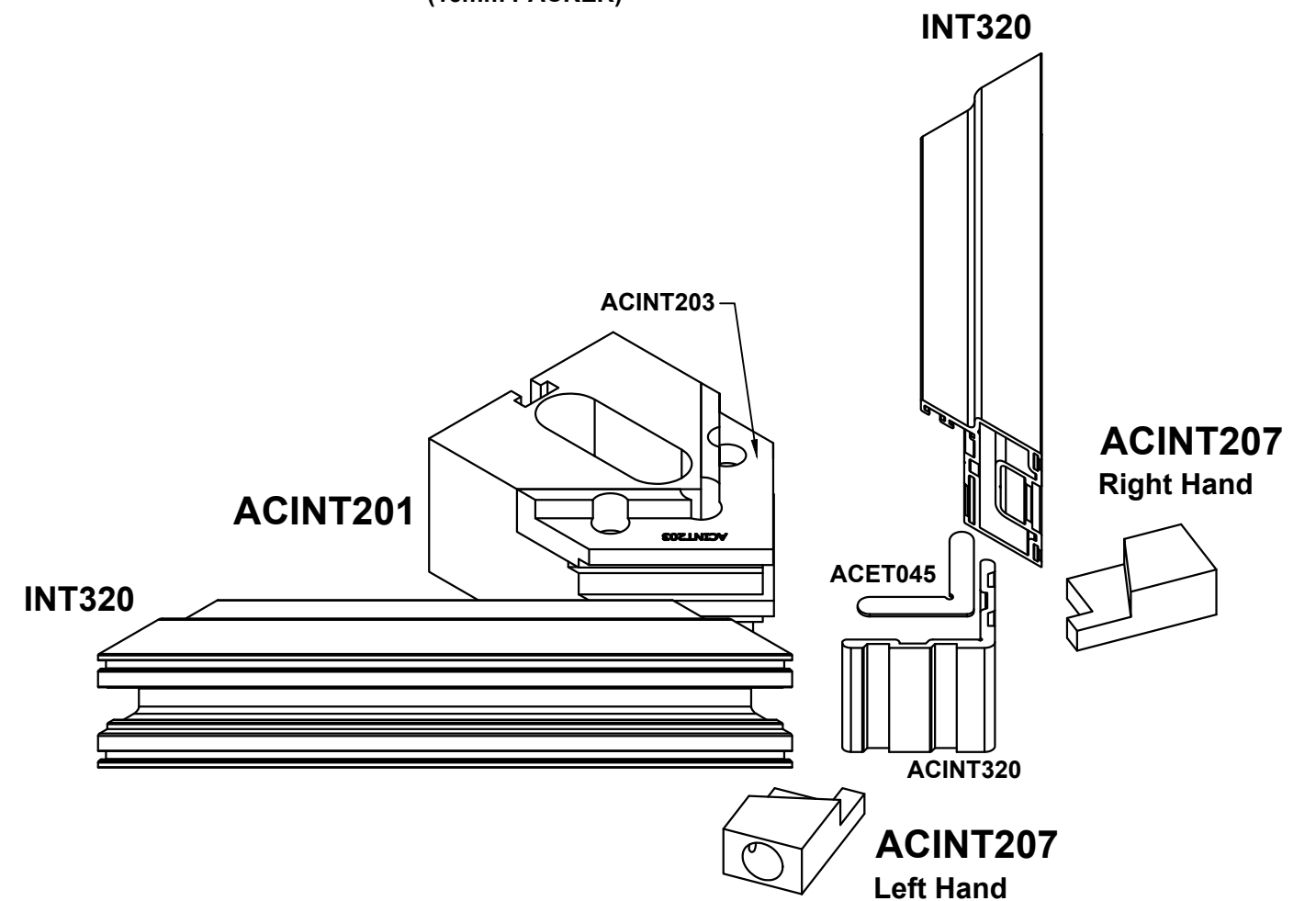
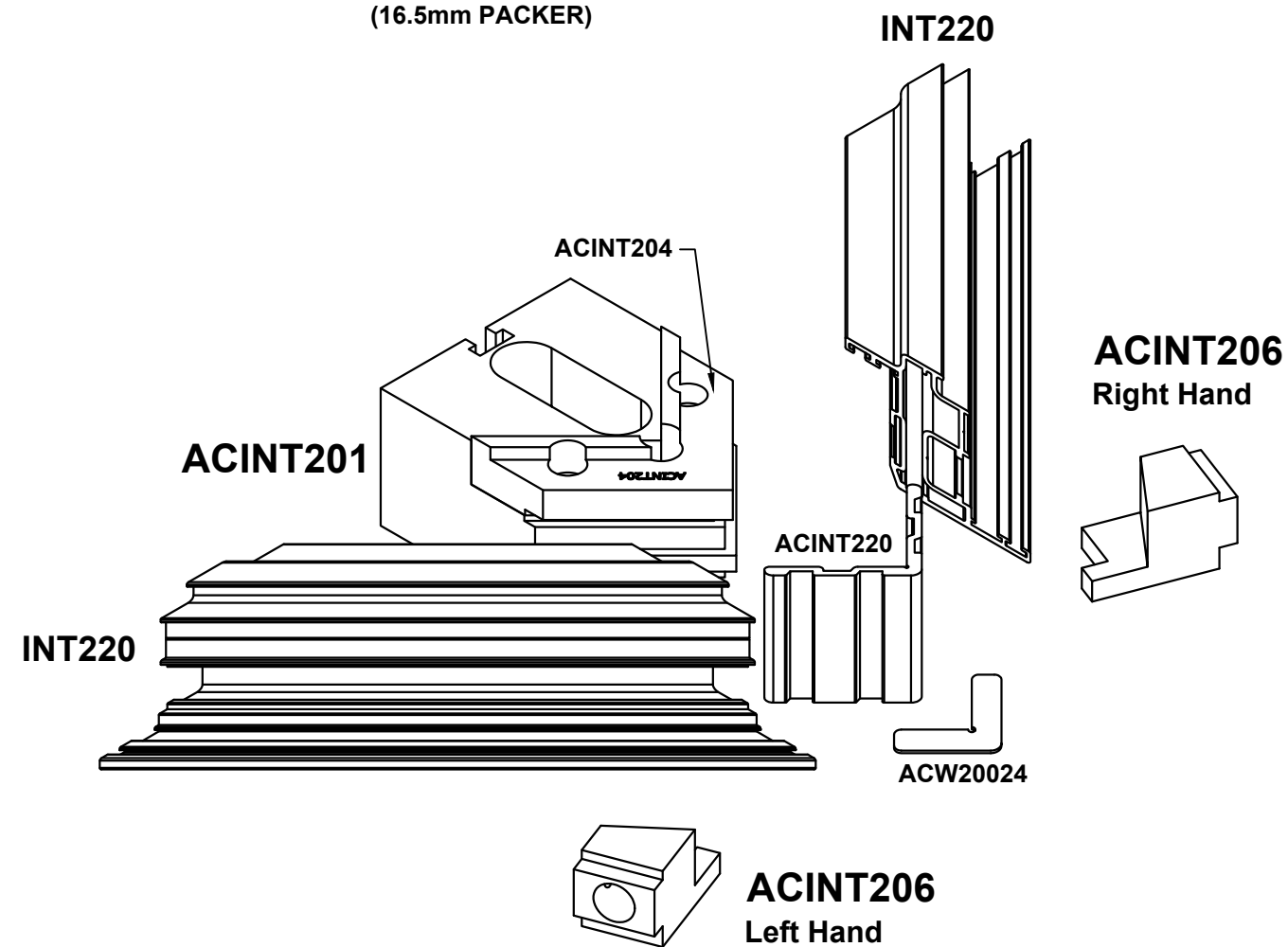
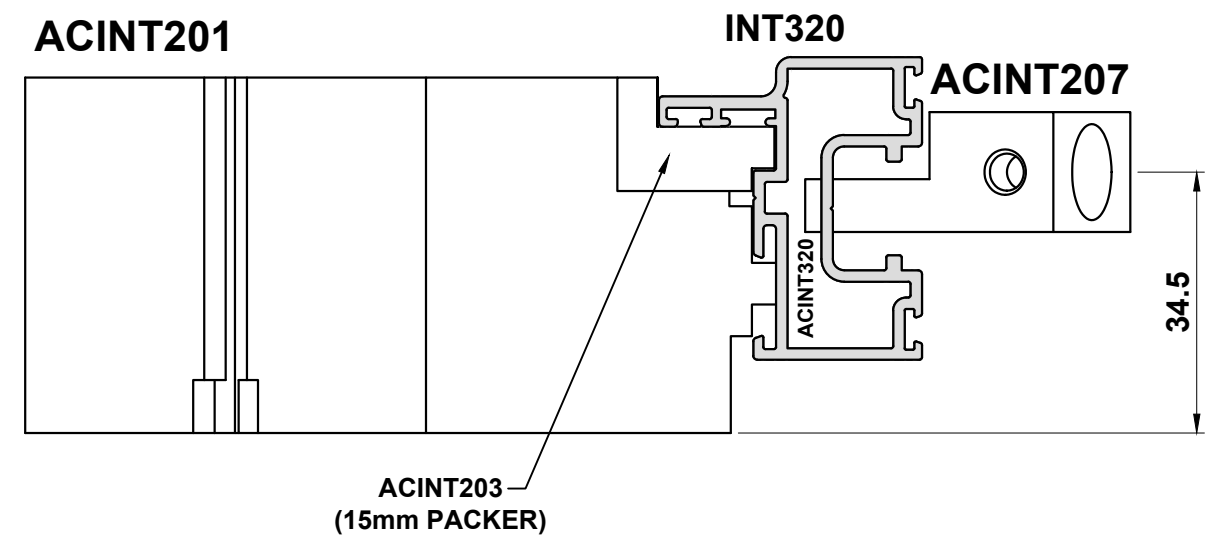
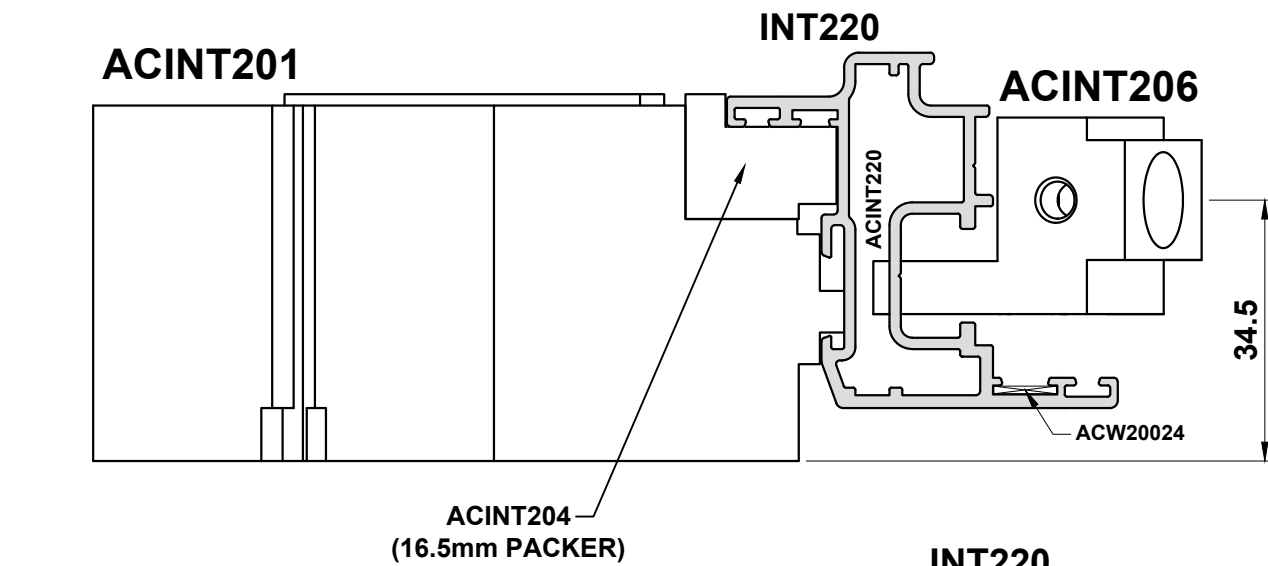
Do Not Scale From This Drawing

Crimping Details



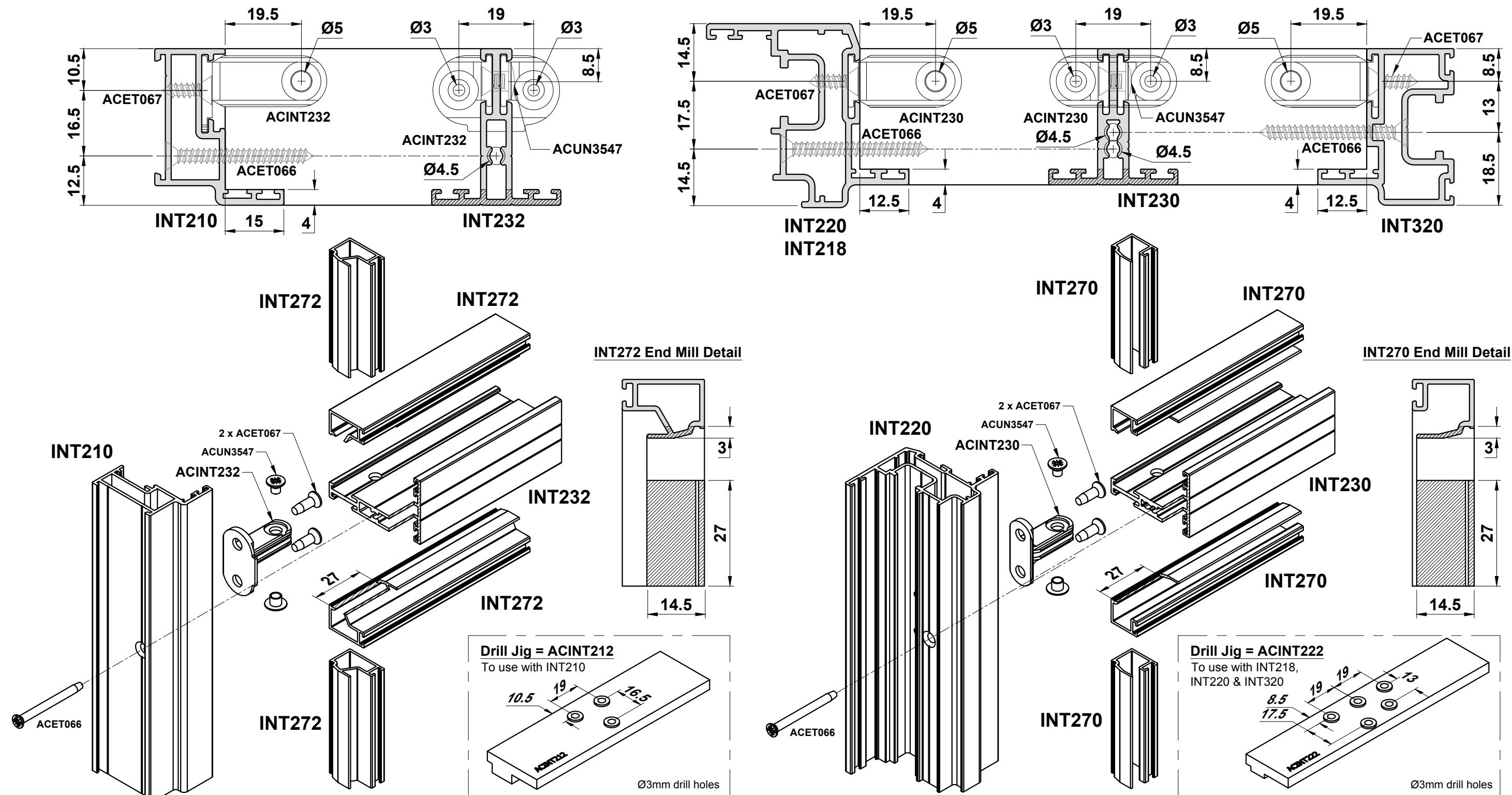
Do Not Scale From This Drawing

Crimping Details

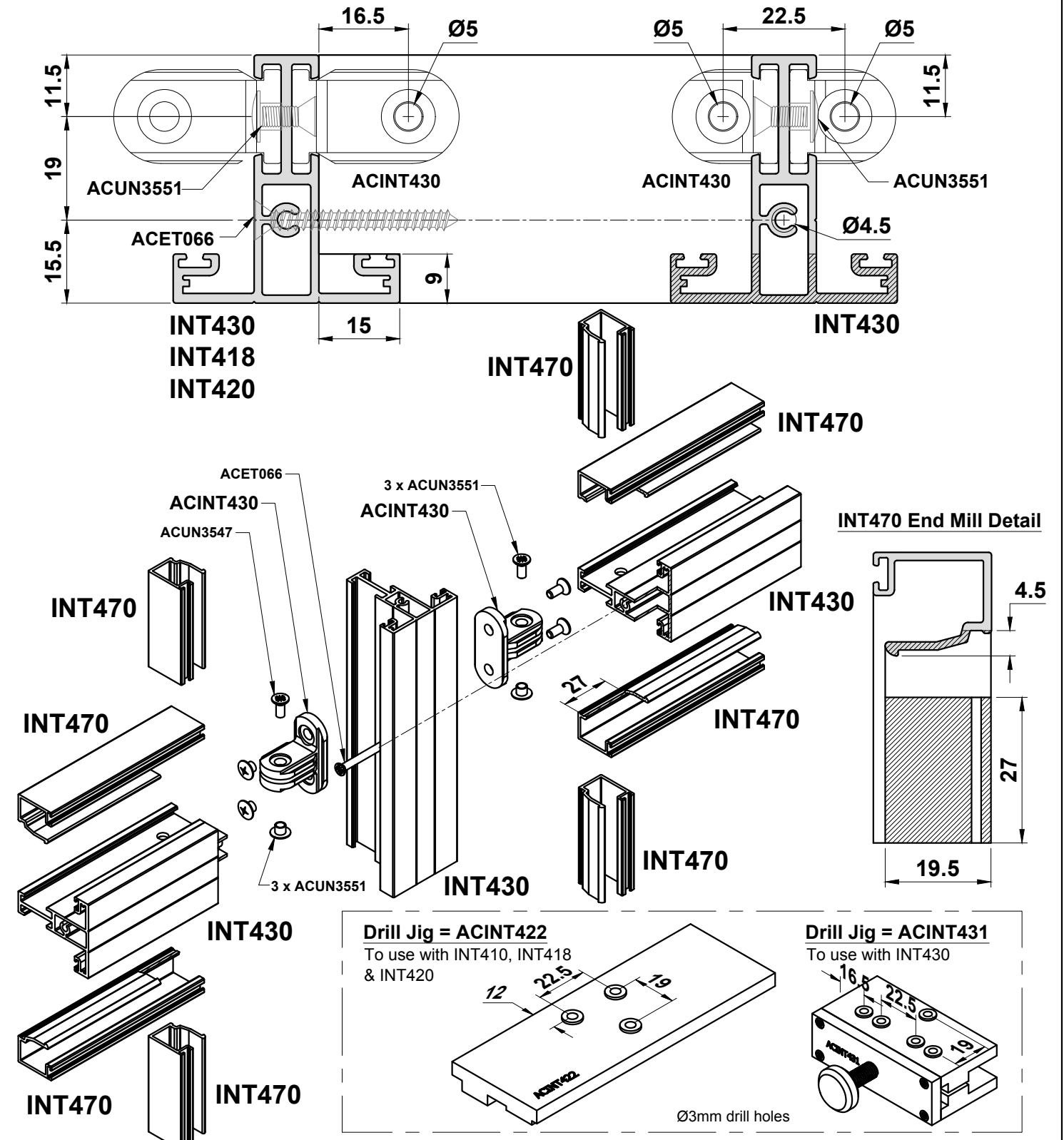


Do Not Scale From This Drawing

Transom Detail

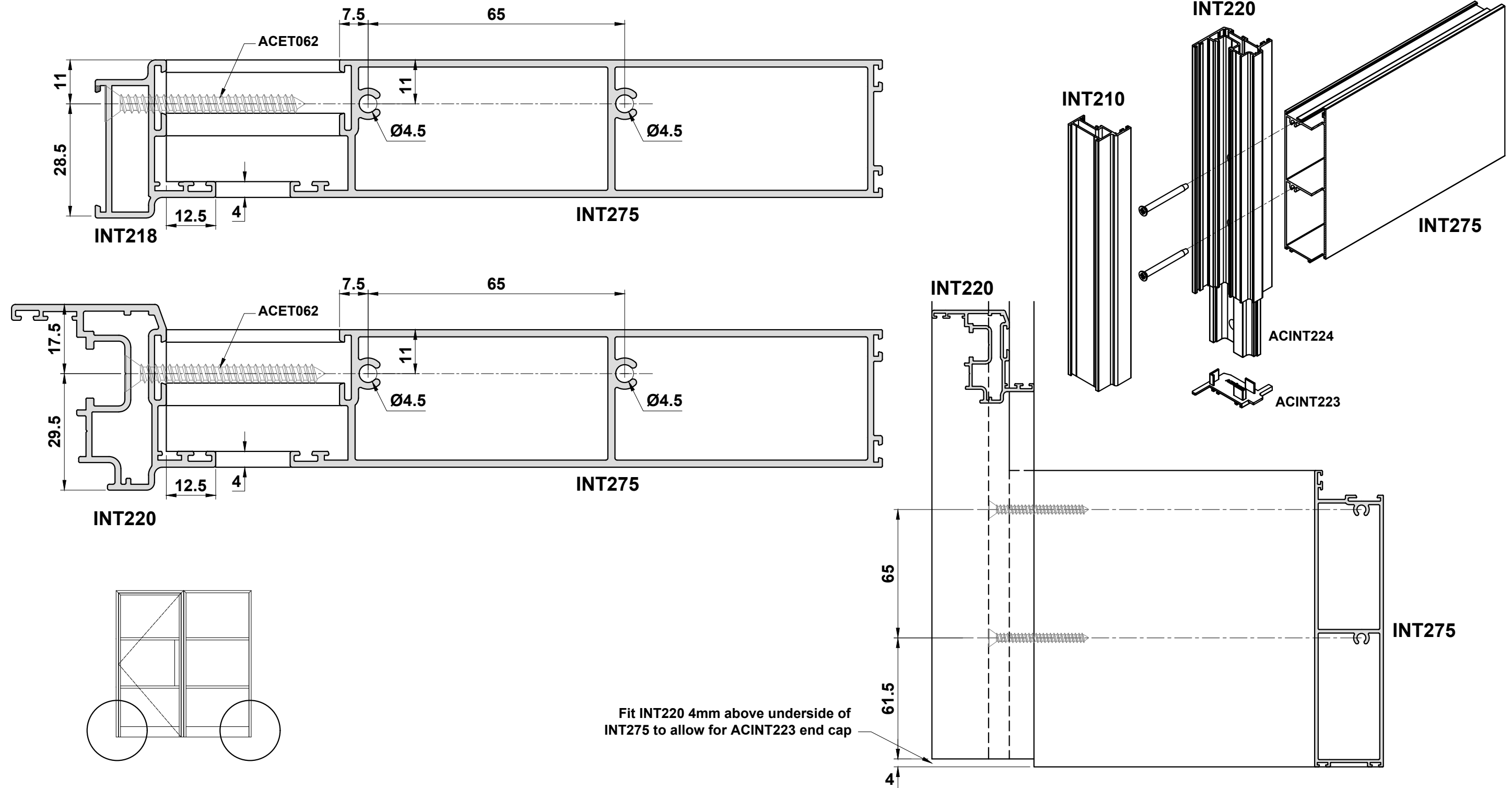


CONSTRUCTION DRAWINGS



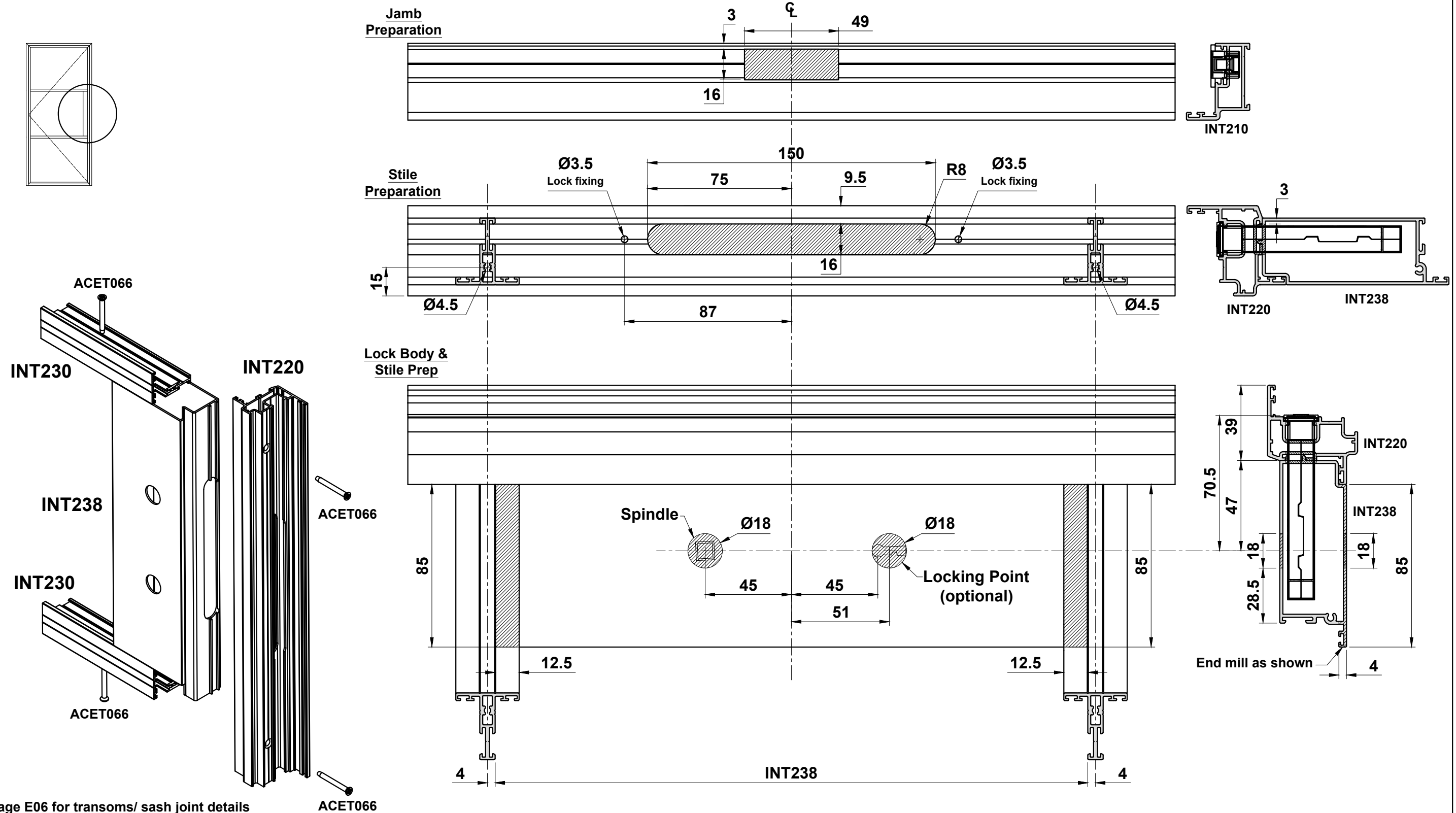
CONSTRUCTION DRAWINGS

Deep Bottom Rail Detail



Do Not Scale From This Drawing

Hinged Door Lock Preparation

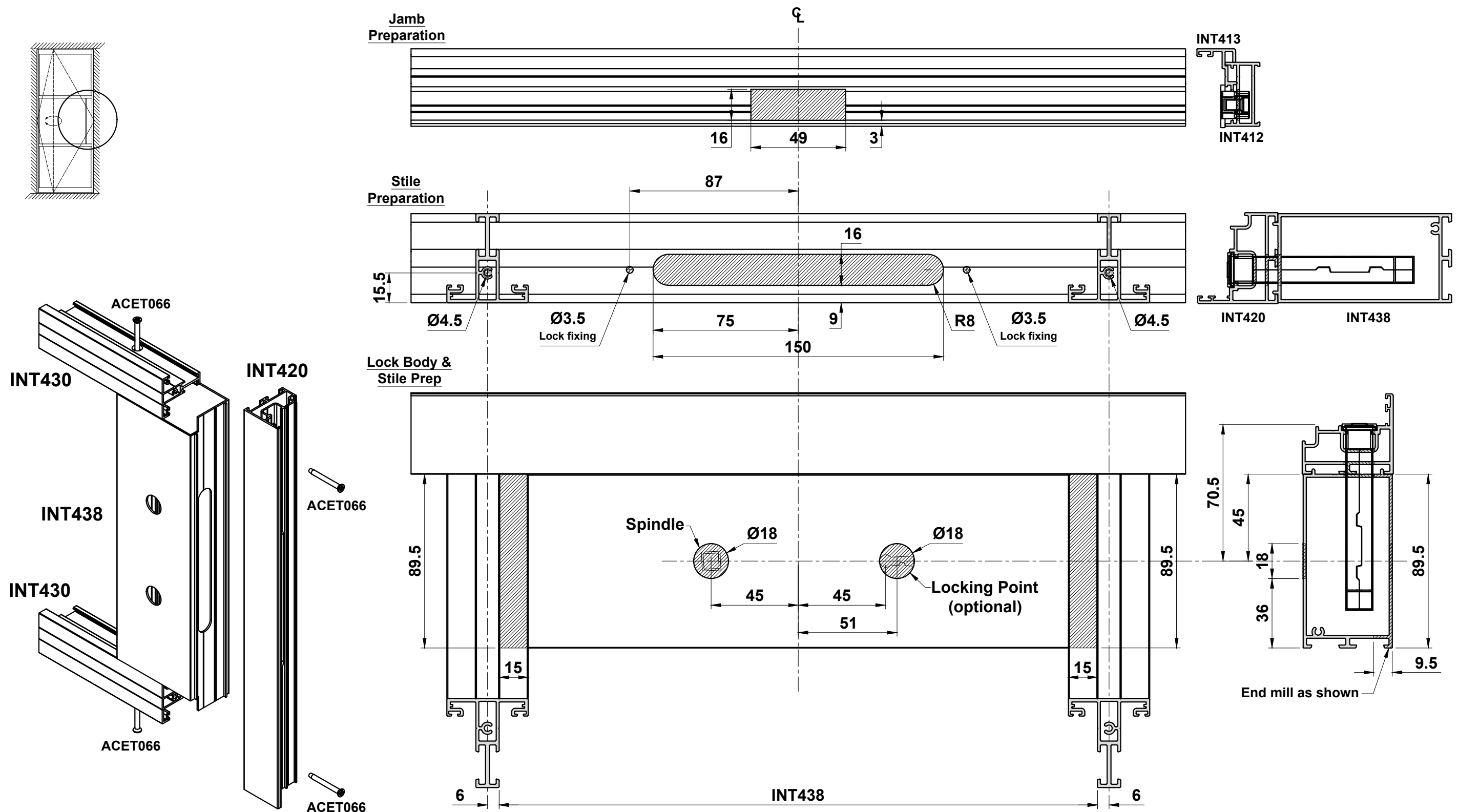


See page E06 for transoms/ sash joint details

ACET066

Do Not Scale From This Drawing

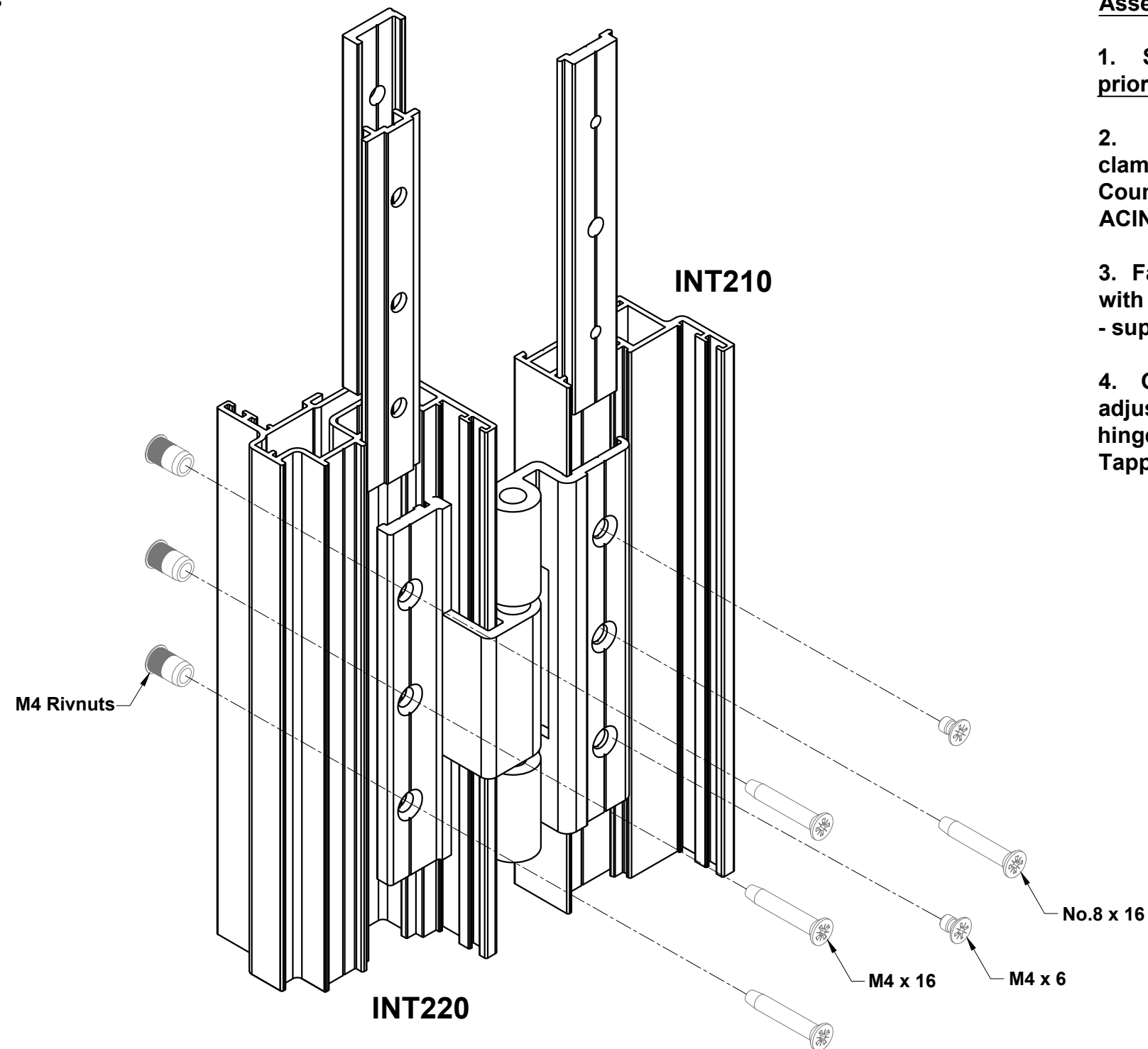
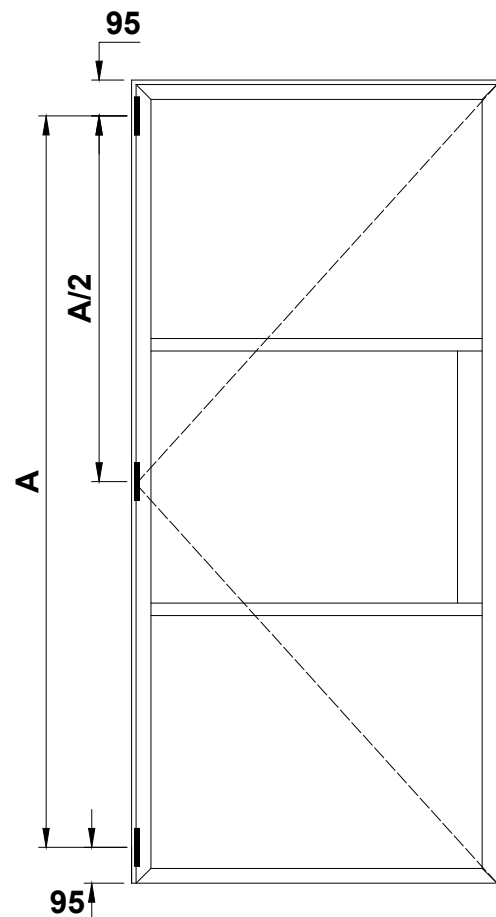
Pivot Door Lock Preparation



Do Not Scale From This Drawing

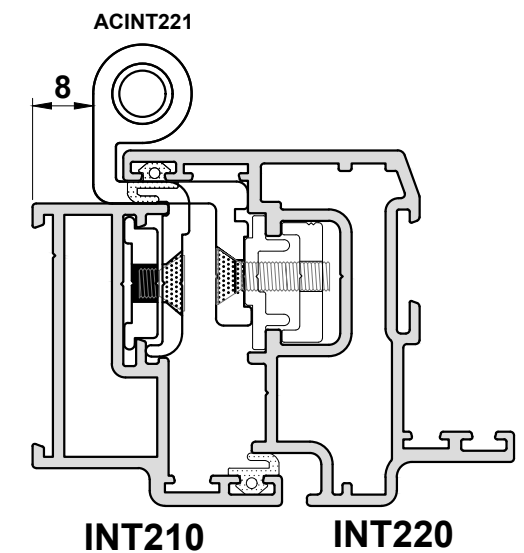
Open In Door Hinge Details

Recommended hinge positions



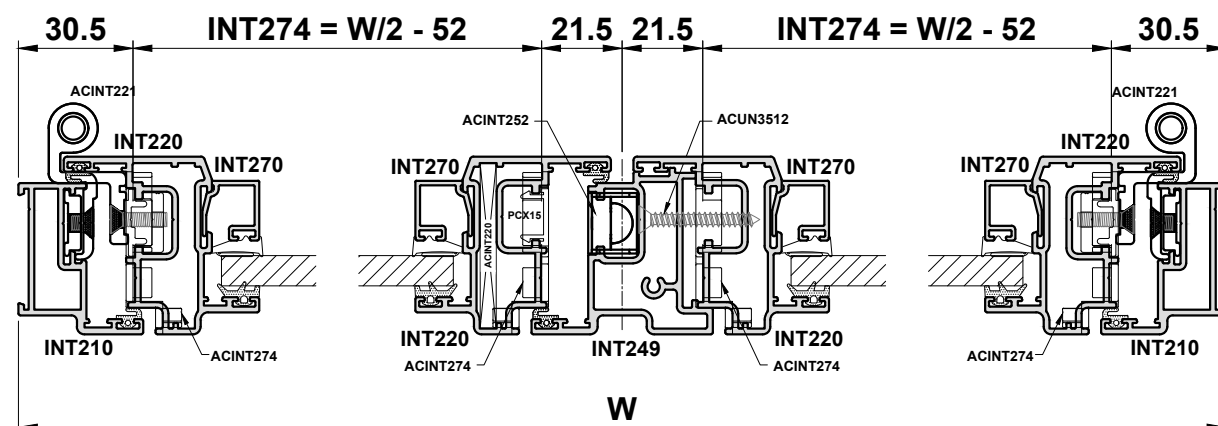
Assembly Instructions

1. Slide Hinge Backplates into outerframe prior to crimping.
2. Locate each hinge in outerframe and clamp in position using 2No. M4 x 6mm Countersunk screws - supplied with ACINT221.
3. Fasten Hinge to Sash through the adaptor with 3No. M4 x 16mm Screws into the rivnuts - supplied with ACINT221.
4. Once the sash requires no further adjustment fix the outerframe half of the hinge with 1 x No.8 x 16mm Pozi Csk Self Tapping screw.

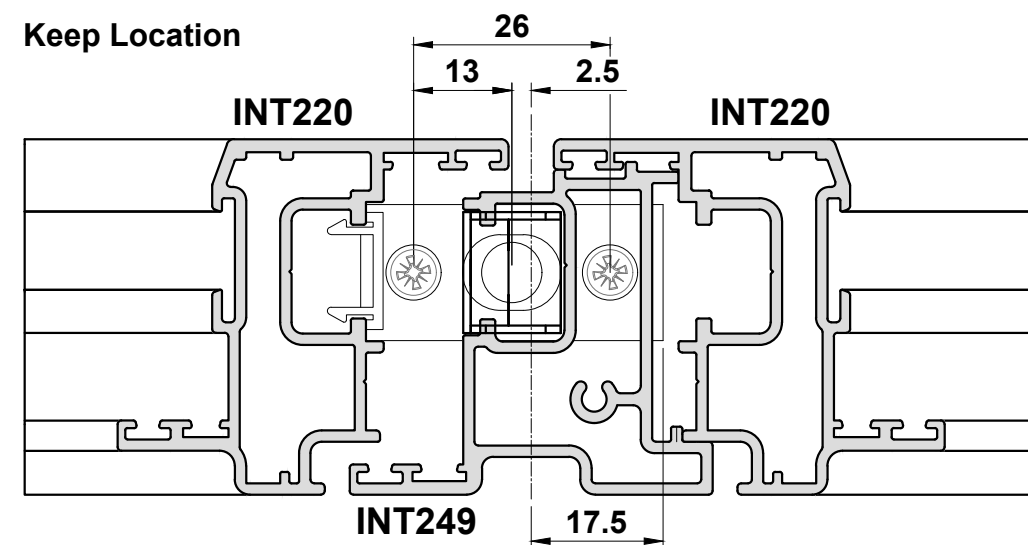


Do Not Scale From This Drawing

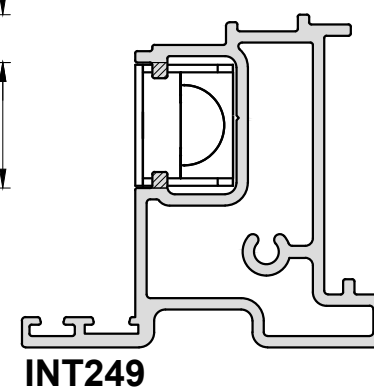
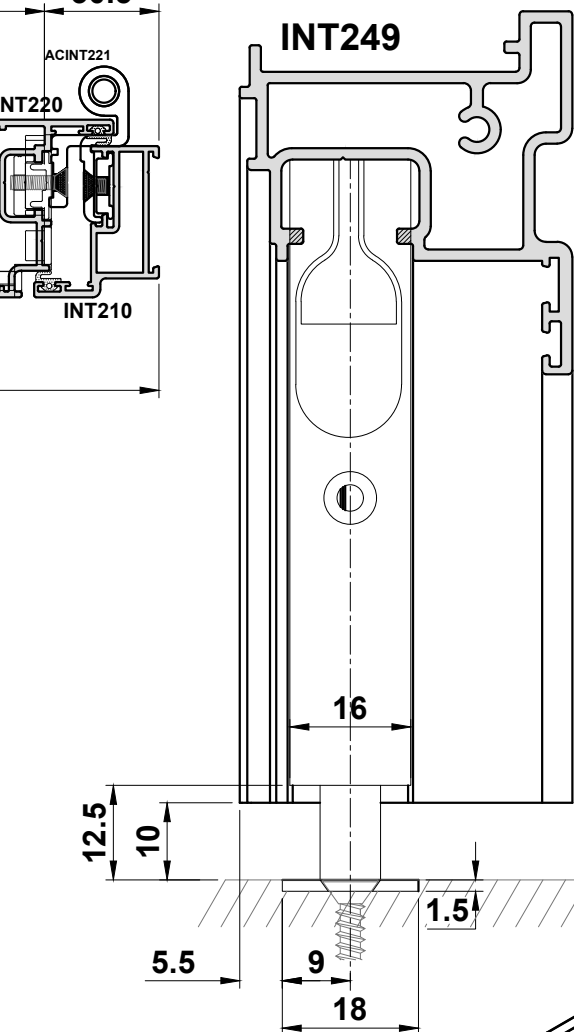
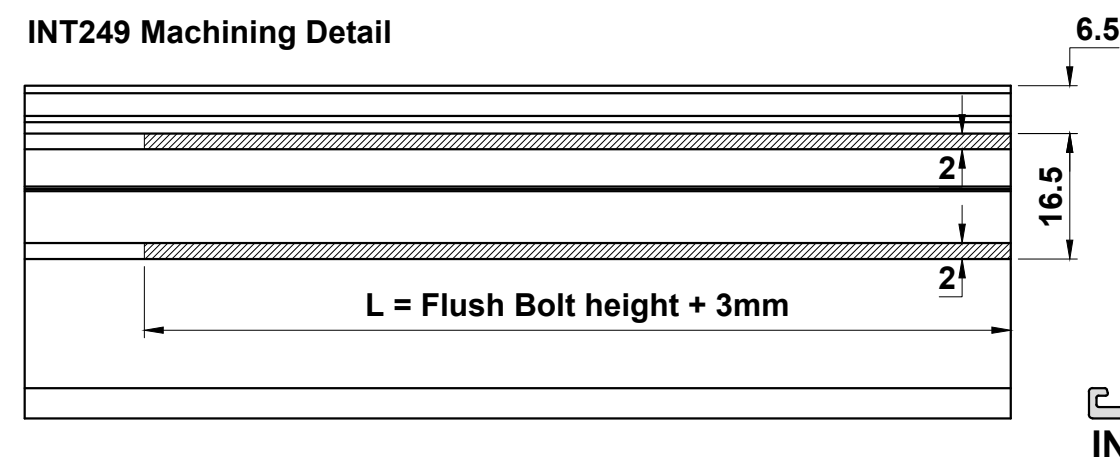
Open In Double Door - Bottom Detail



Keep Location



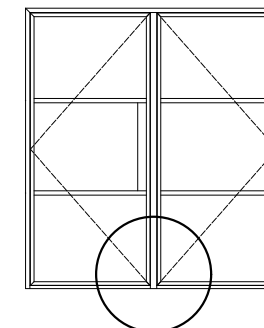
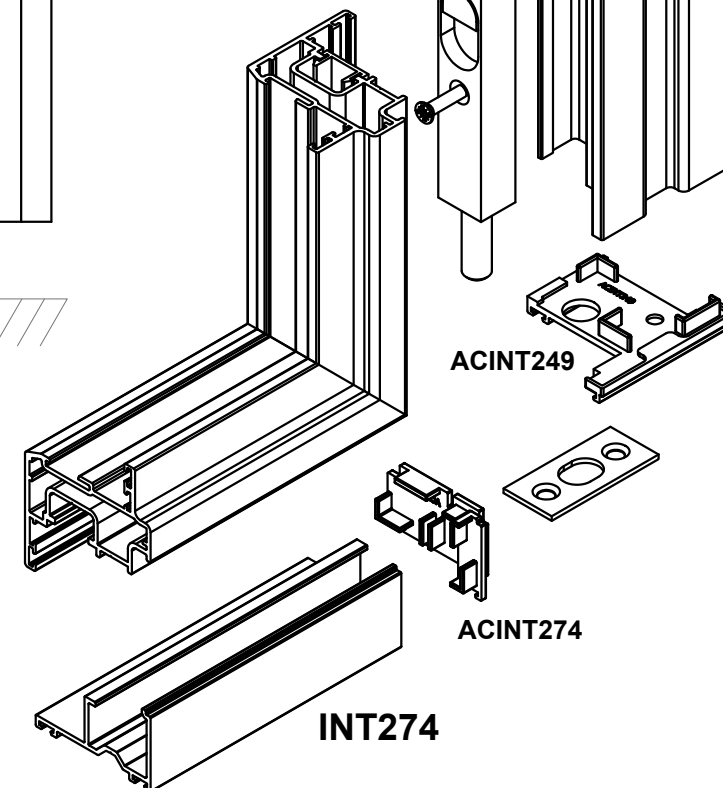
INT249 Machining Detail



ACINT251 -
ACINT255
(Flush Bolt & Keep)

2 x ACET060

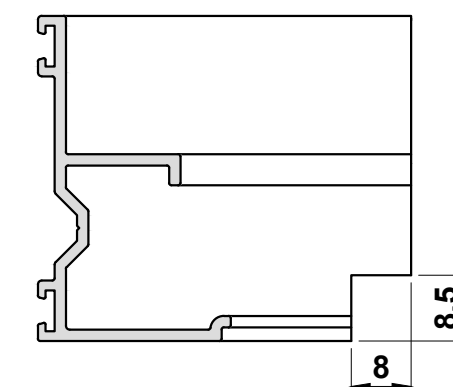
INT220



INT220

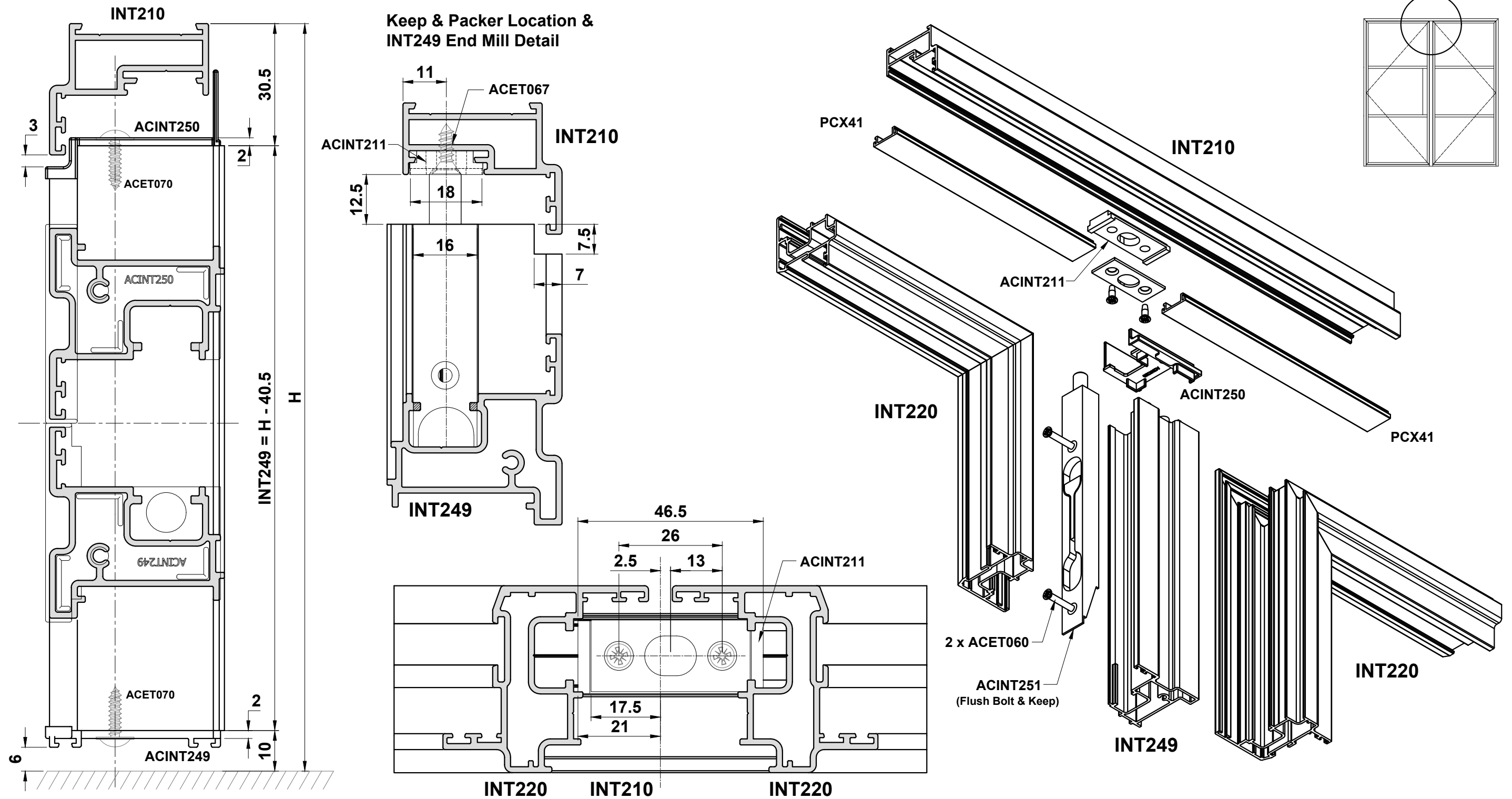
INT274

INT274 End Mill Detail



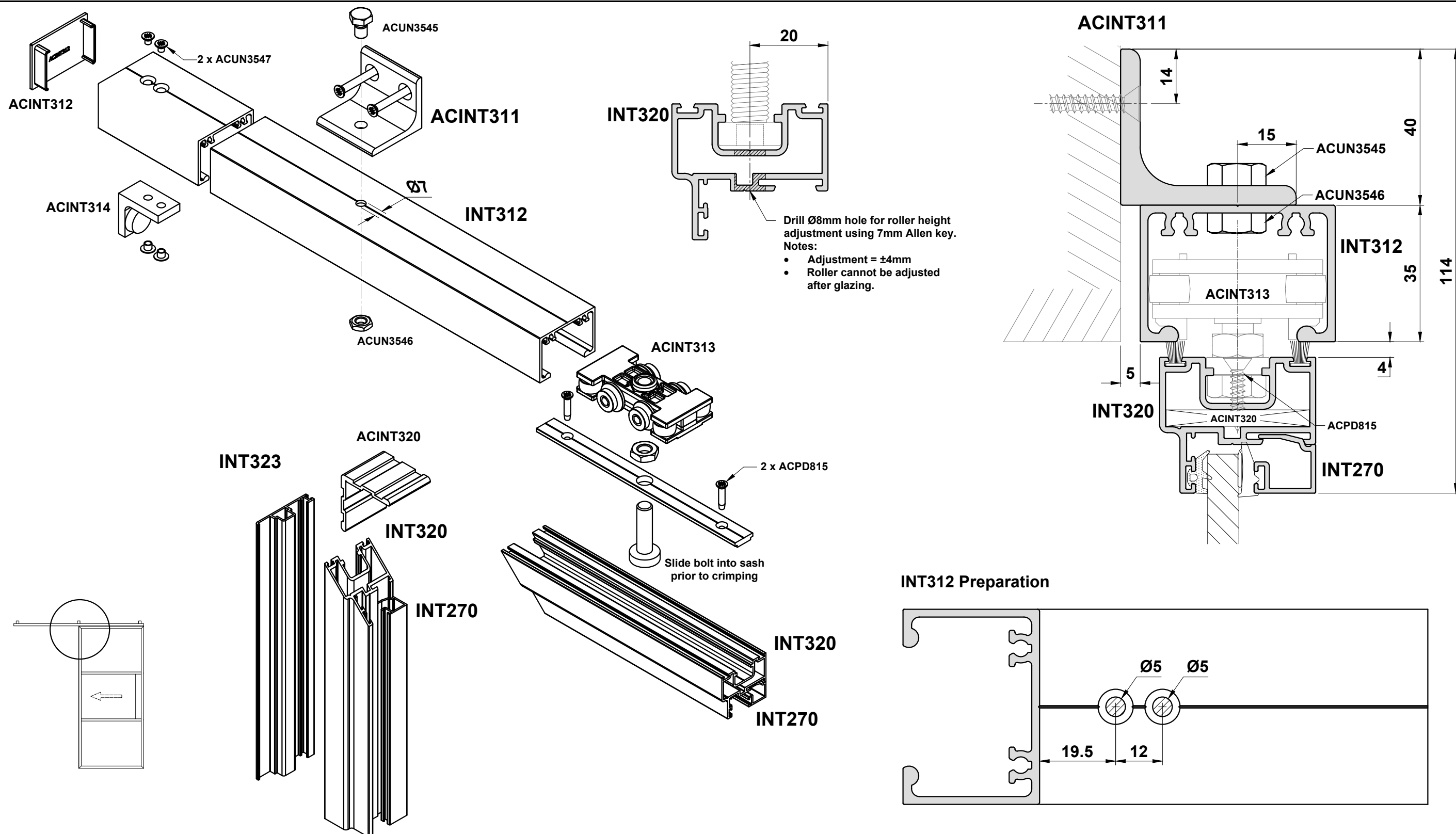
Do Not Scale From This Drawing

Open In Double Door - Top Detail



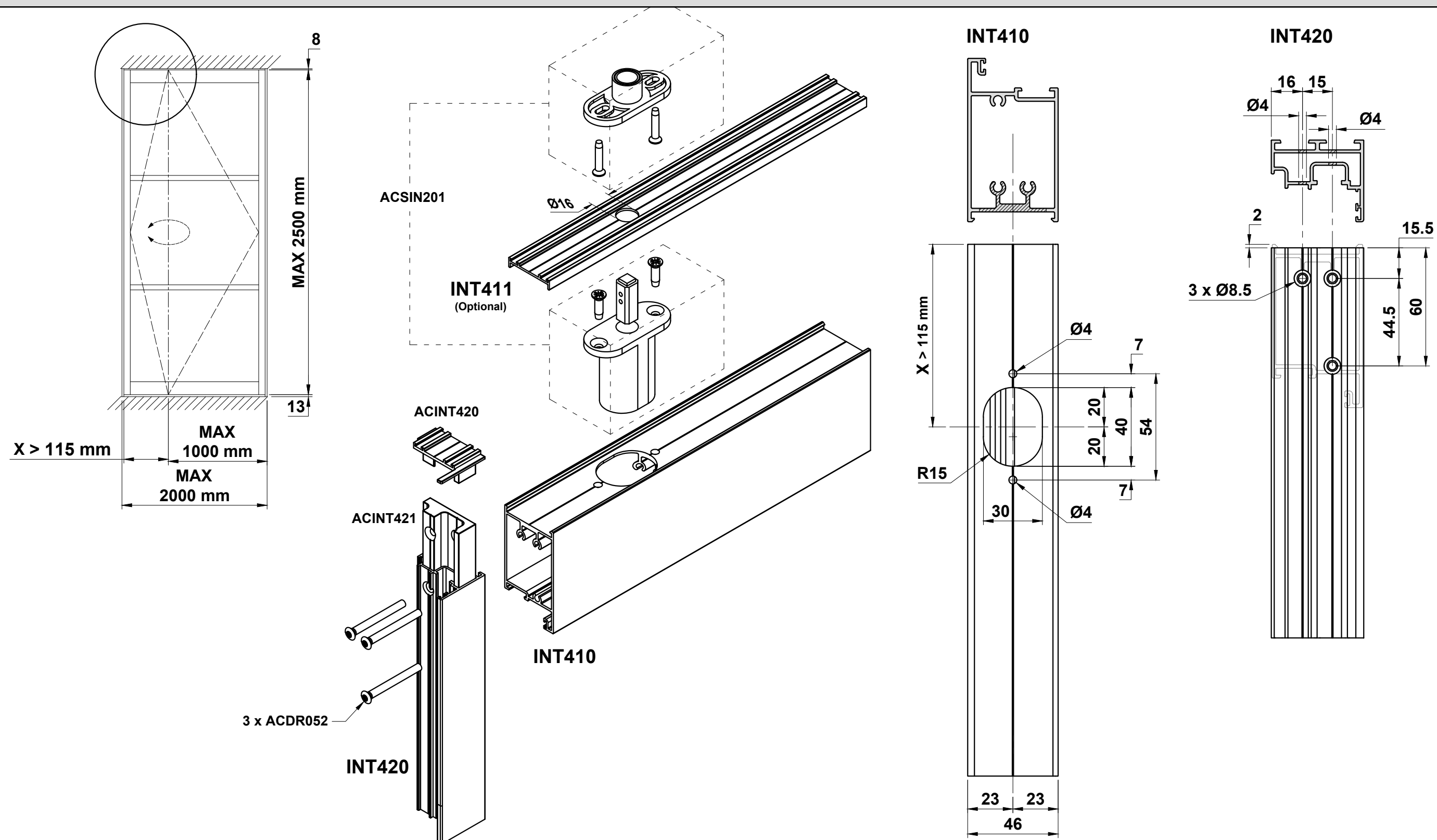
Do Not Scale From This Drawing

Sliding Door - Roller Fixing



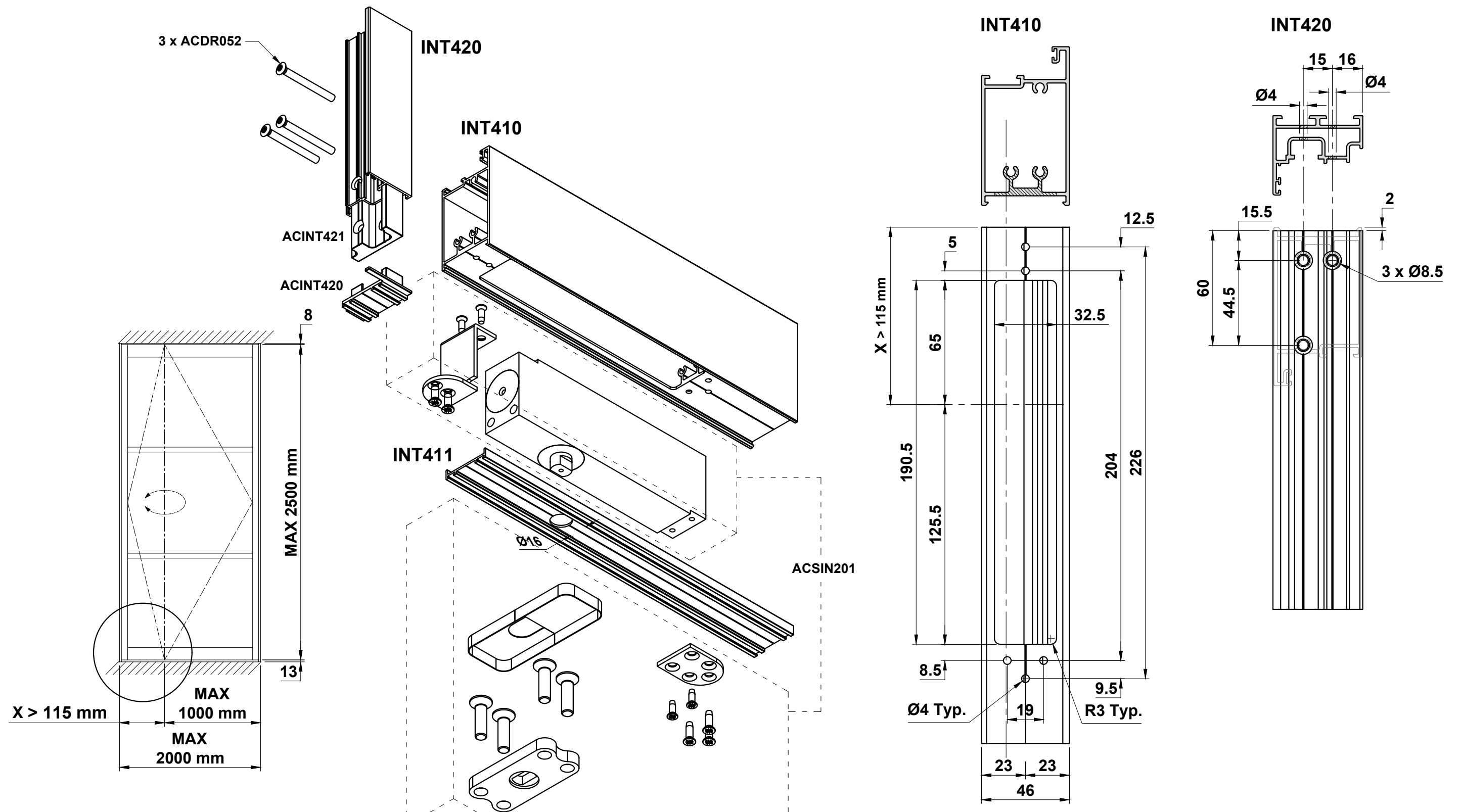
Do Not Scale From This Drawing

Pivot Door - ACSIN201 Preparation & Fixing (Top Detail)



Do Not Scale From This Drawing

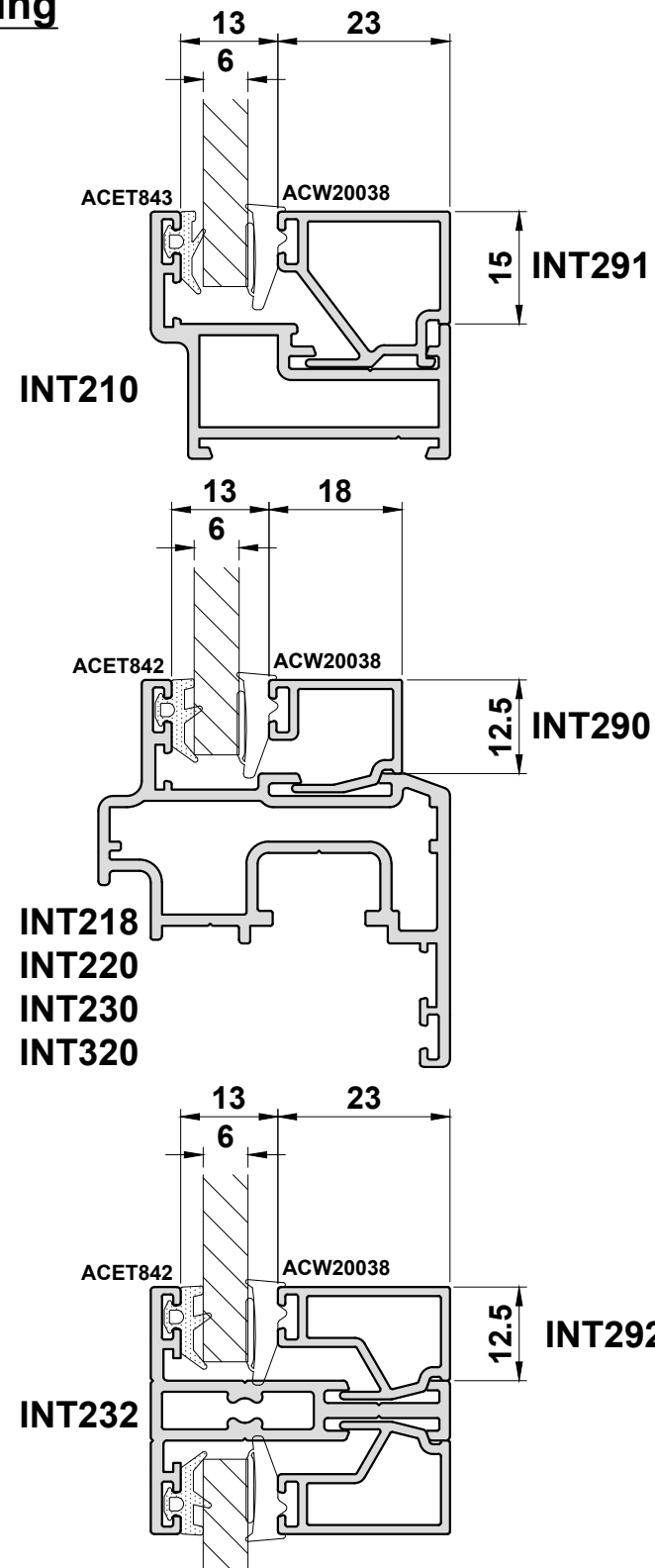
Pivot Door - ACSIN201 Preparation & Fixing (Bottom Detail)



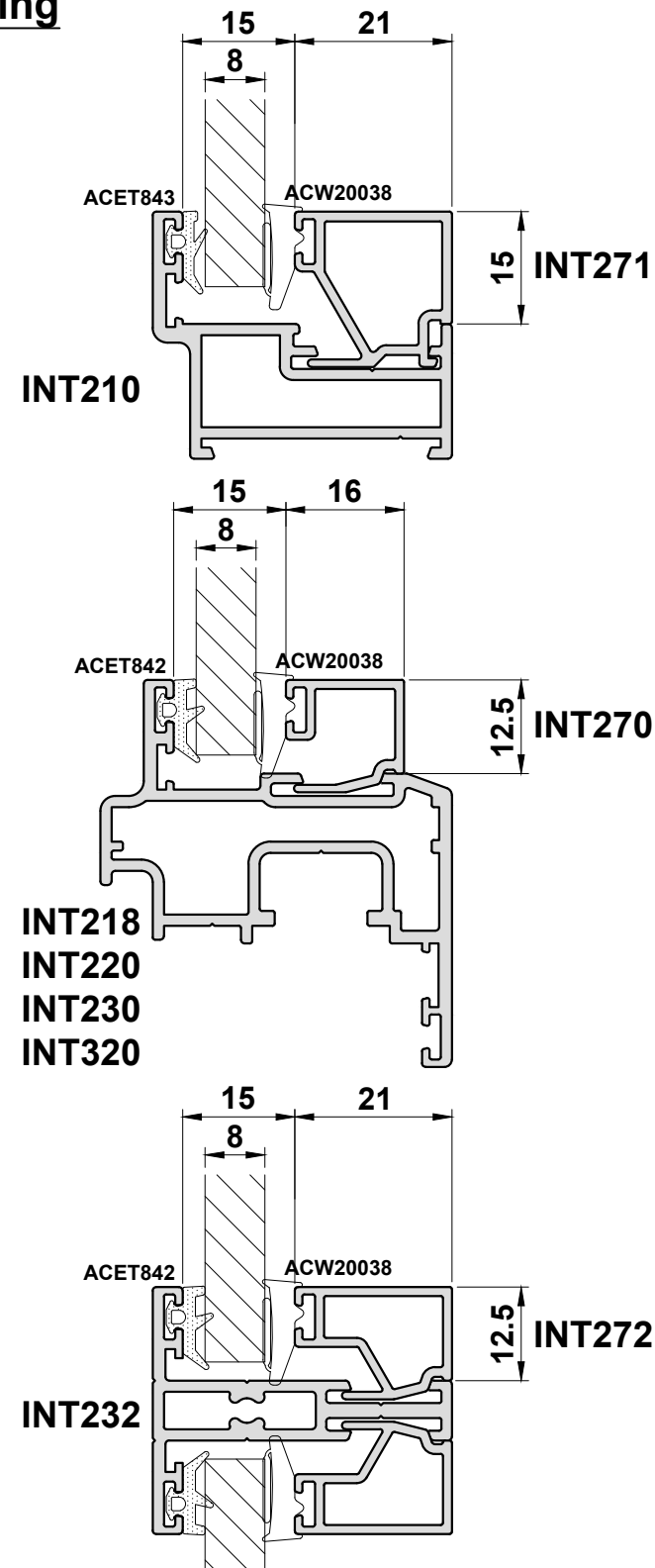
Do Not Scale From This Drawing

Glazing Details - Fixed Screens, Hinged & Sliding Doors

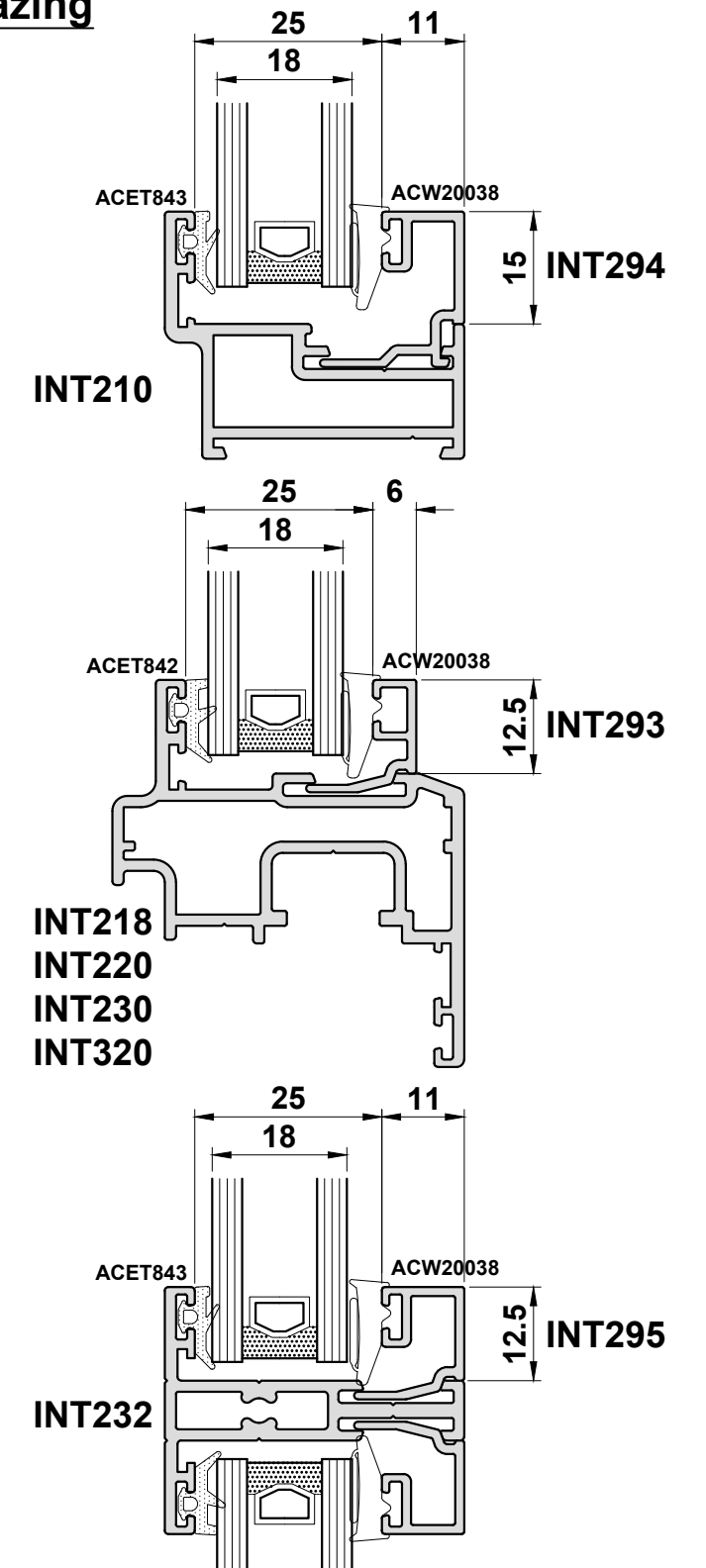
6mm Glazing



8mm Glazing



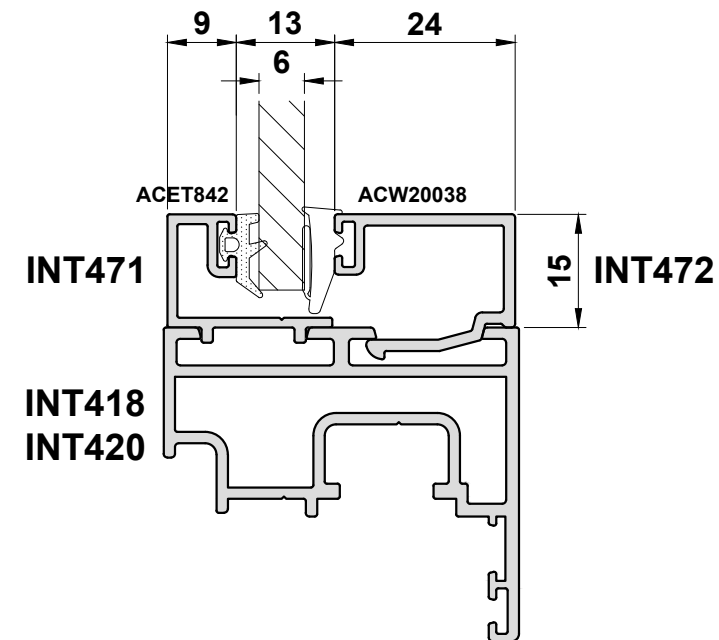
18mm Glazing



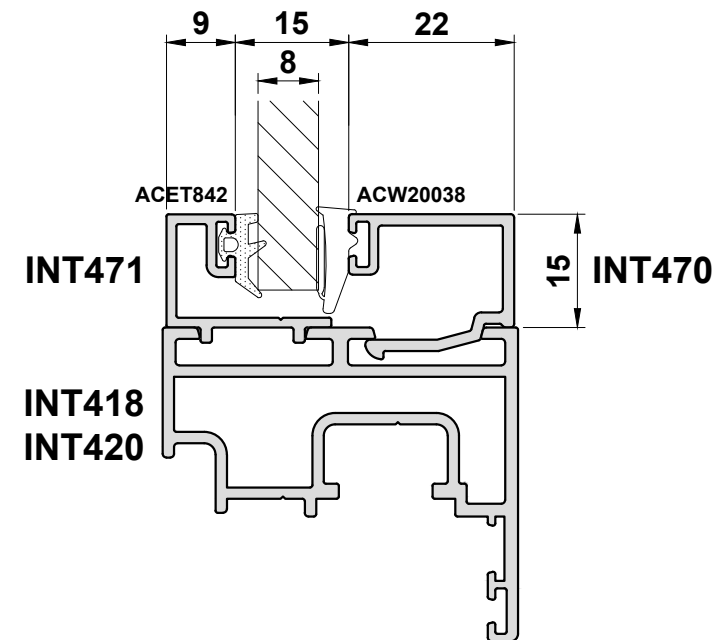
Do Not Scale From This Drawing

Glazing Details - Pivot Doors

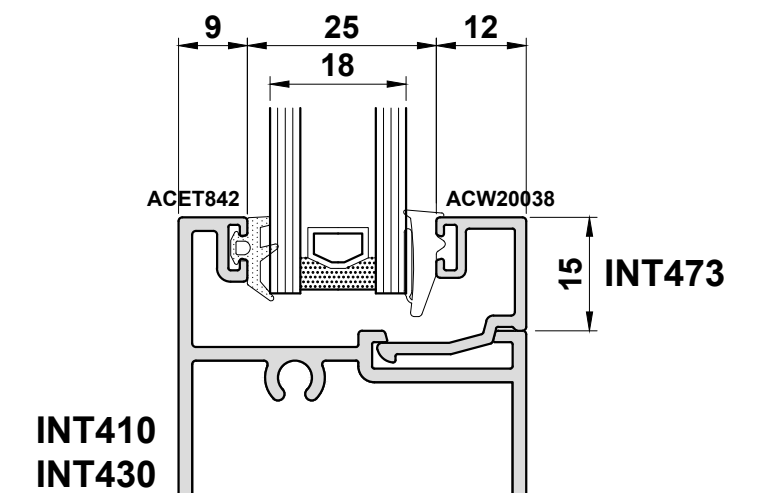
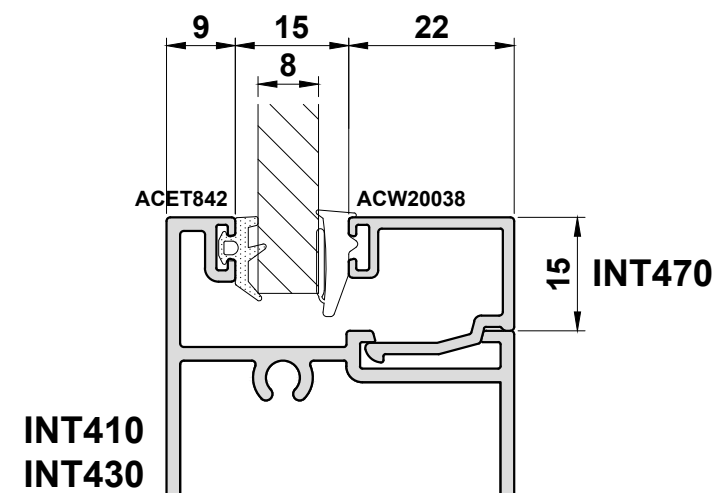
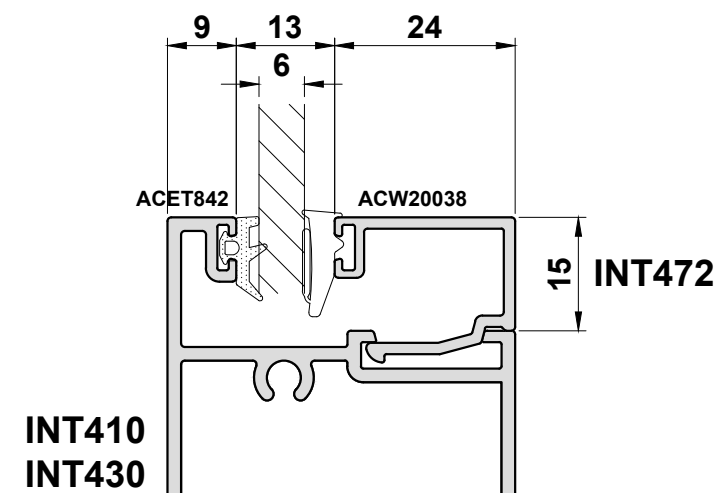
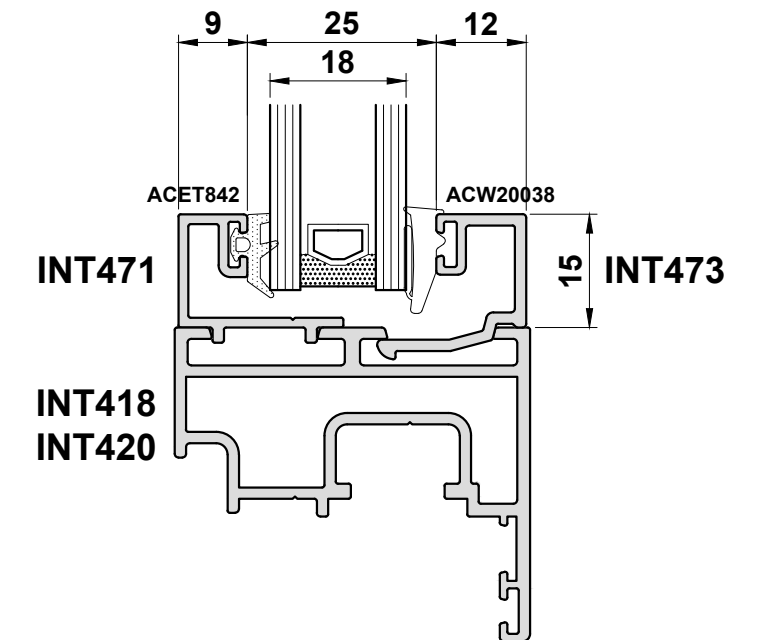
6mm Glazing



8mm Glazing



18mm Glazing



Do Not Scale From This Drawing

Section F

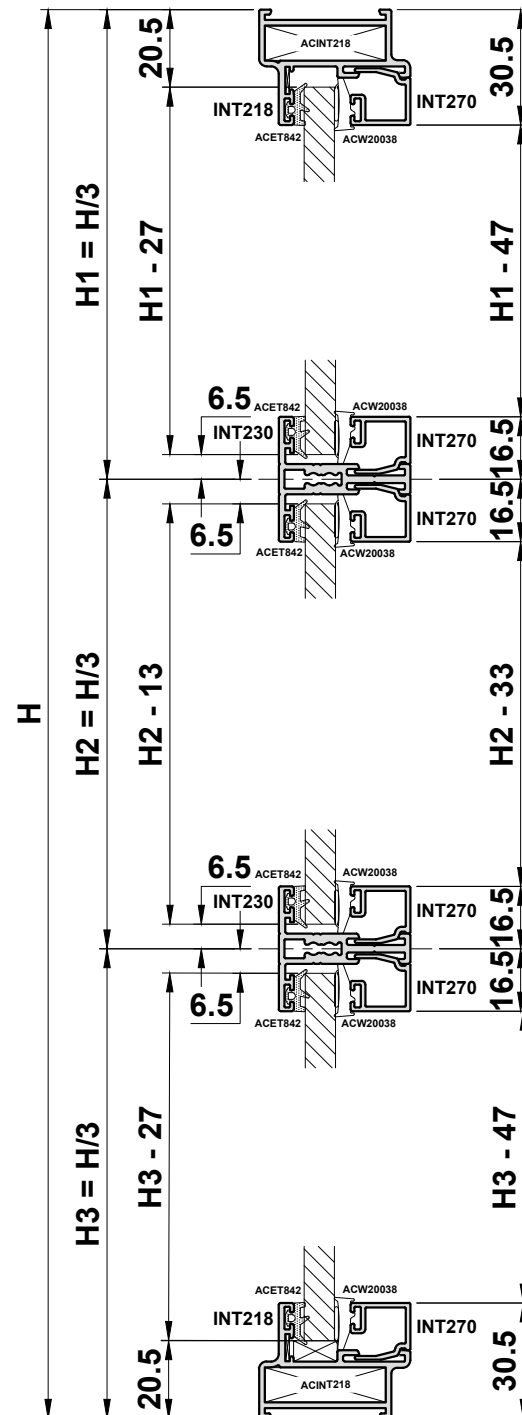


Sawing Tables

Fixed Screen.....	F03
Hinged Door.....	F04 - F08
Sliding Door.....	F09 - F12
Pivot Door.....	F13

Section F

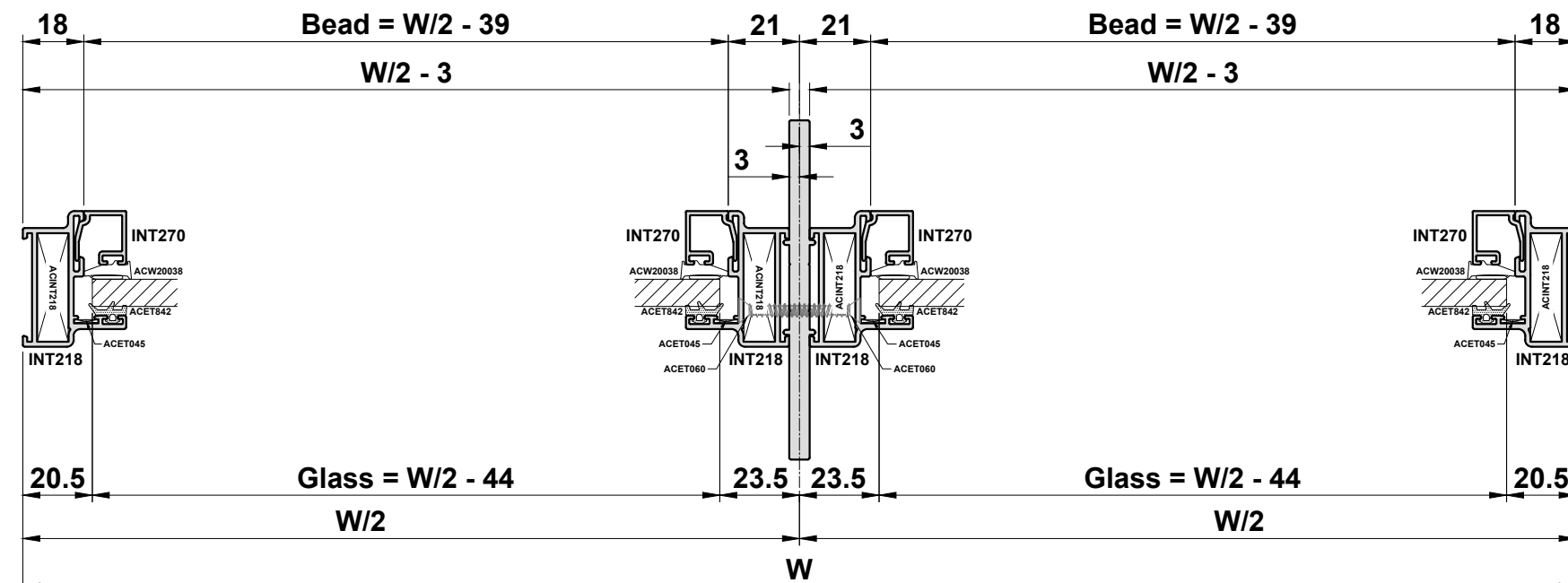
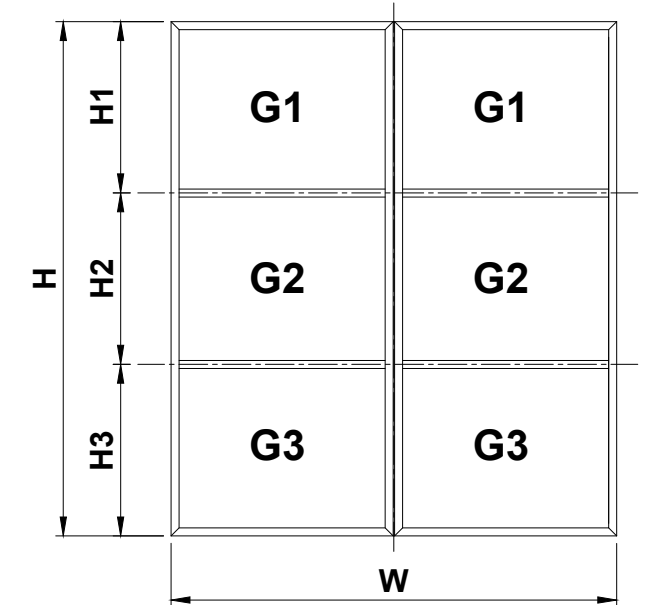
Cutting Information - Fixed Screen



Profile Cutting Schedule				
INT218	4			$W/2 - 3$
INT218	4			H
INT230	4			$W/2 - 39$
INT255	1			H
INT270	12			$W/2 - 39$
INT270	4			$H3 - 47$
INT270	4			$H2 - 33$
INT270	4			$H1 - 47$

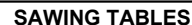
Accessories		
ACET045	Chevrans	8
ACET060	Screws	300mm centres
ACET066	Screws	8
ACET067	Screws	16
ACET842	E Gasket	$12(W/2 - 44) + 4(H - 41)$
ACINT218	Outer Frame Cleats	8
ACINT230	Transom Brackets	8
ACUN3547	M4 Connecting Screws	8
ACW20038	Wedge Gasket	$12(W/2 - 44) + 4(H - 41)$

Glass		
G1	2	$W/2 - 44 \times H1 - 27$
G2	2	$W/2 - 44 \times H2 - 13$
G3	2	$W/2 - 44 \times H3 - 27$



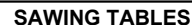
Do Not Scale From This Drawing

SAWING TABLES

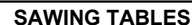


SAWING TABLES

SAWING TABLES



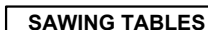
SAWING TABLES



SAWING TABLES

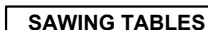
SAWING TABLES

SAWING TABLES

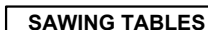


SAWING TABLES

SAWING TABLES



SAWING TABLES



SAWING TABLES

SAWING TABLES

SAWING TABLES



SAWING TABLES

SAWING TABLES

SAWING TABLES



SAWING TABLES



SAWING TABLES

SAWING TABLES



SAWING TABLES

SAWING TABLES

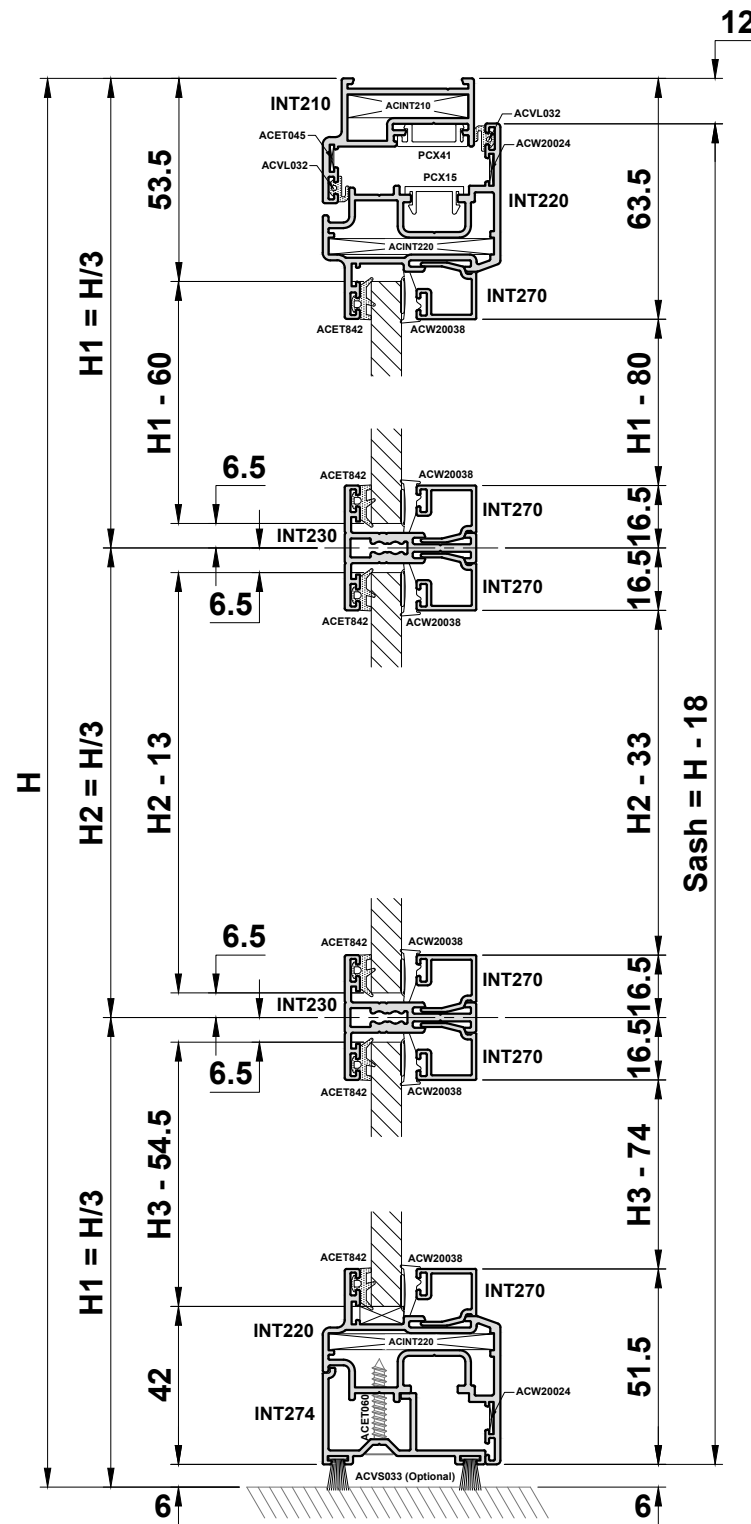


SAWING TABLES



SAWING TABLES

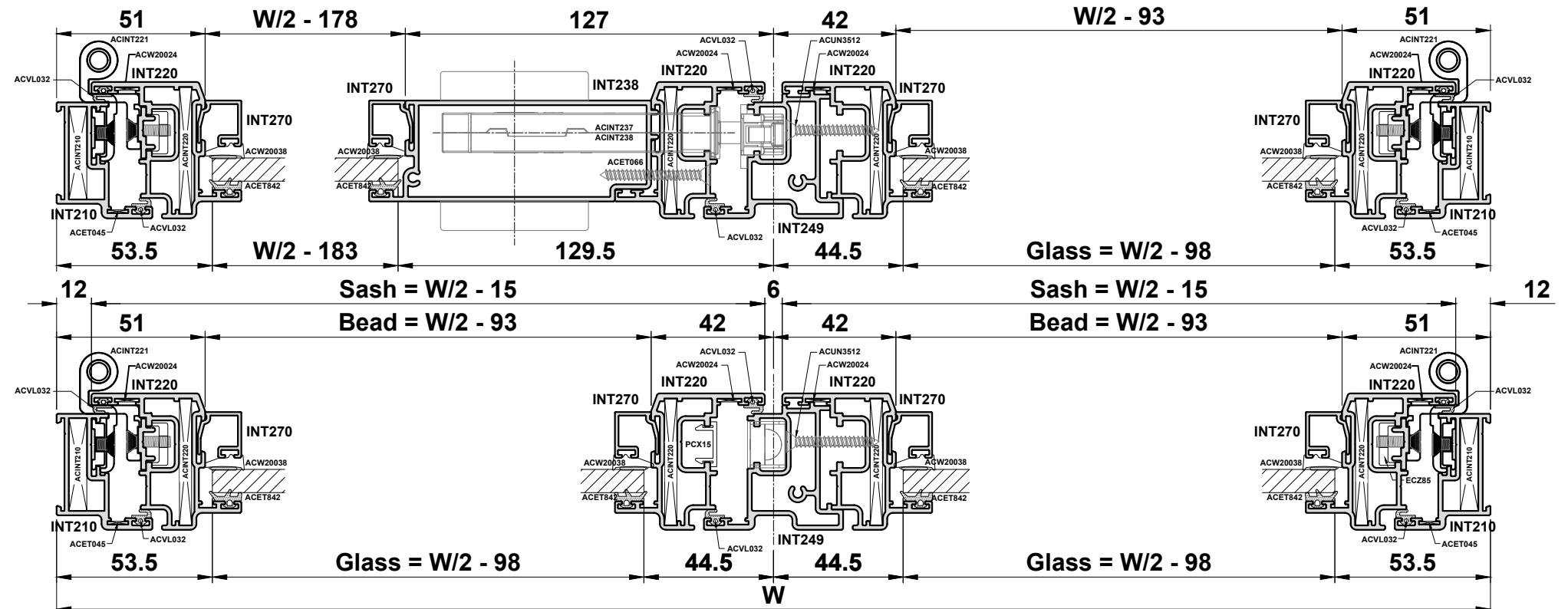
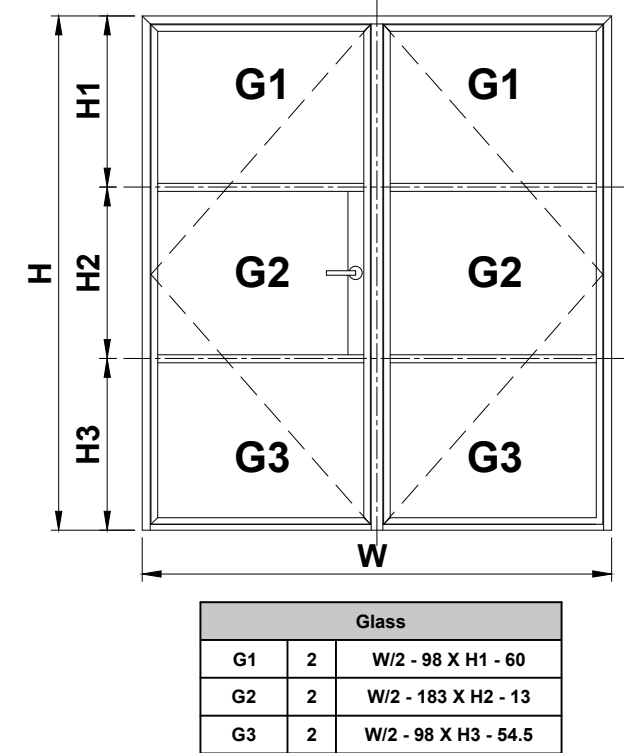
Cutting Information - Open In Double Door



Profile Cutting Schedule				
INT210	1			W
INT210	2			H
INT220	4			$W/2 - 15$
INT220	4			$H - 18$
INT230	4			$W/2 - 93$
INT238	1			$H2 - 8$
INT249	1			$H - 40.5$
INT270	10			$W/2 - 93$
INT270	2			$W/2 - 178$
INT270	4			$H3 - 74$
INT270	4			$H2 - 33$
INT270	4			$H1 - 80$
INT274	2			$W/2 - 52$
PCX15	2			$W/2 - 63$
PCX15	3			$H - 55.5$
PCX41	1			$W - 36$
PCX41	2			$H - 12$

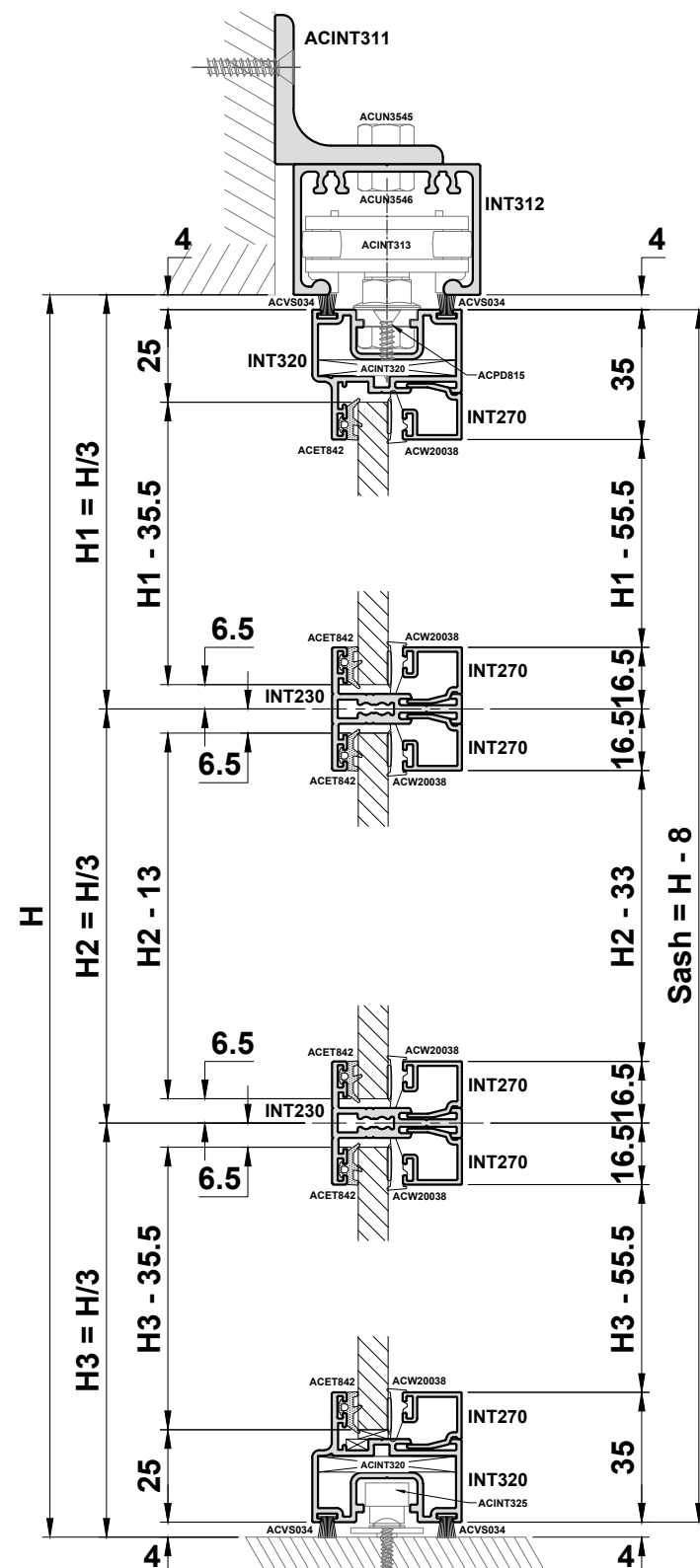
Accessories		
ACET045	Chevrans	2
ACET066	Screws	10
ACET067	Screws	16
ACET842	E Gasket	$12(W/2-98) + 4(H-101.5)$
ACINT210	Outer Frame Cleats	2
ACINT211	Packer	1
ACINT220	Sash Cleats	8
ACINT221	Hinge Kit	6
ACINT230	Transom Brackets	8
ACINT237/238	Magnetic Sash Lock	1
ACINT239	Forend Cover	1
ACINT240	Striker Cover Plate	1
ACINT241	Latch Cover Tray with magnet	1
ACINT249	Bottom End Cap	1
ACINT250	Top End Cap	1
ACINT25	Flush Bolt (*)	2
ACINT274	End Cap	2 Pairs
ACINT5	Lever Handle (**)	Pair
ACUN3512	Screws	300mm centres
ACUN3547	M4 Connecting Screws	8
ACVL032	Outer Frame Seal	$1(W-58) + 2(H-29)$
ACVL032	Sash Seal	$4(W/2-23) + 4(H-12)$
ACVS033	Woolpile	$4(W/2-52)$
ACW20024	Chevrans	8
ACW20038	Wedge Gasket	$12(W/2-98) + 4(H-101.5)$

(*) See Section B for flush bolt options.
(**) See Section B for handle options.



Do Not Scale From This Drawing

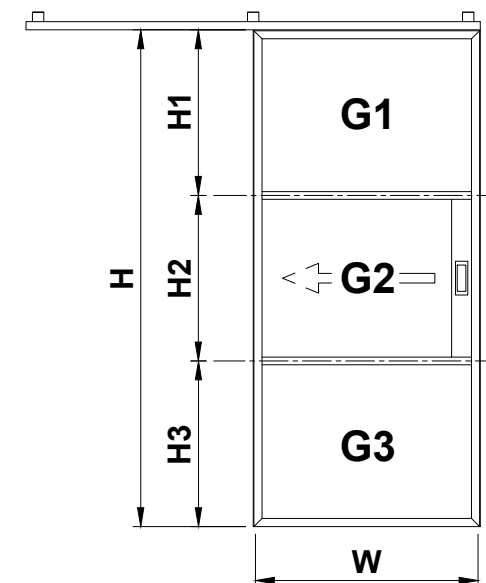
Cutting Information - Single Sliding Door



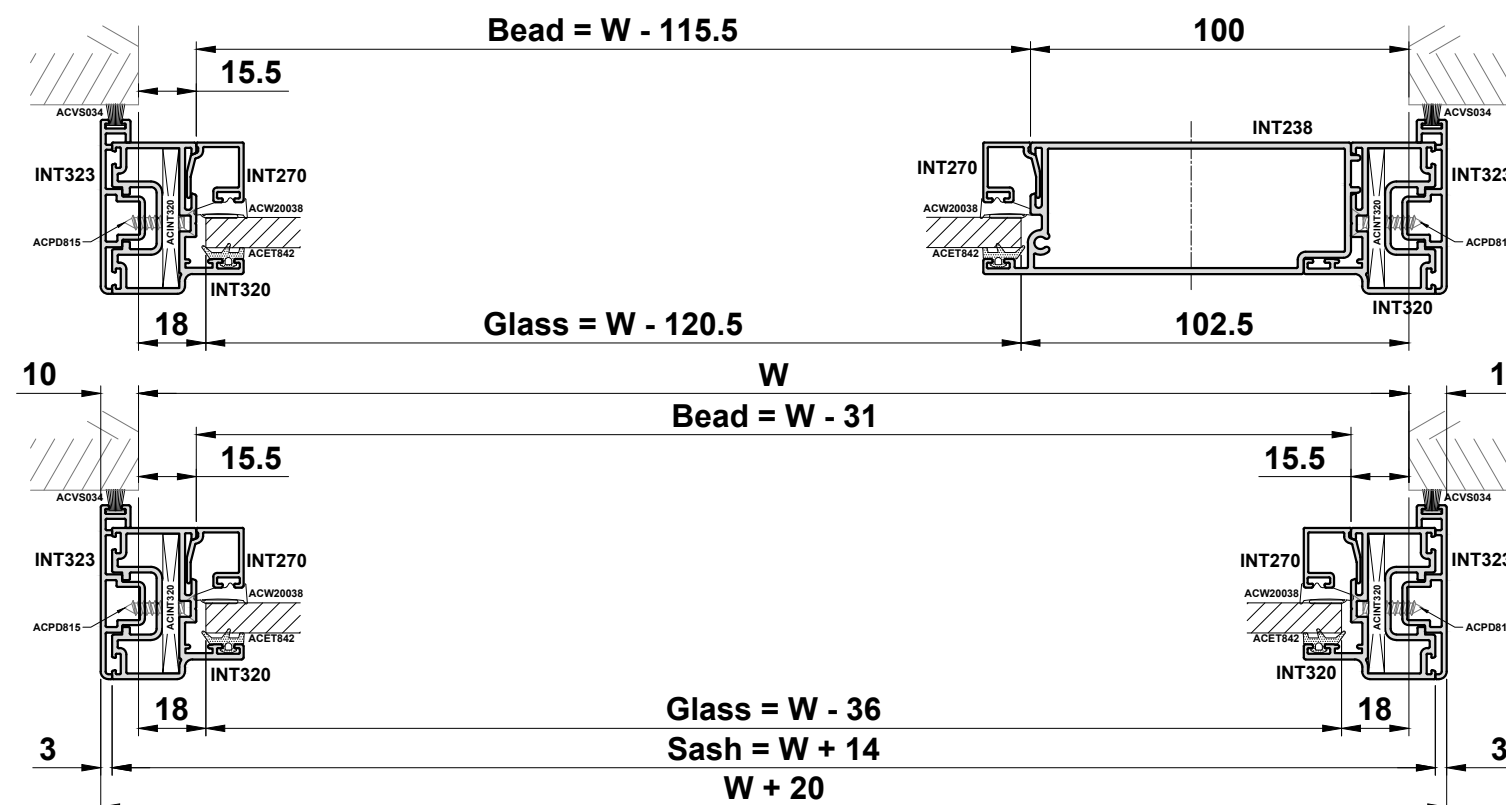
Profile Cutting Schedule				
INT230	2			W - 31
INT238	1			H2 - 8
INT270	4			W - 31
INT270	2			W - 115.5
INT270	2			H1 - 55.5
INT270	2			H2 - 33
INT270	2			H3 - 55.5
INT312	1			2(W + 20)
INT320	2			W + 14
INT320	2			H - 8
INT323	2			H - 8

Accessories		
ACET066	Screws	6
ACET067	Screws	8
ACET842	E Gasket	6(W-36) + 2(H-58)
ACINT230	Transom Bracket	4
ACINT311	Brackets	3
ACINT312	End Cap	1 Pack
ACINT313	Top Carrier Roller	2
ACINT314	Buffer Stop	2
ACINT320	Sash Cleats	4
ACINT325	Bottom Guide	1
ACINT52_	Pull Handle (*)	2
ACPD815	Screws	300mm centres
ACUN3545	M8 Screws	2
ACUN3546	M8 Nuts	2
ACUN3547	M4 Connecting Screws	4
ACVS034	Woolpile	4(W+14) + 2H
ACW20038	Wedge Gasket	6(W-36) + 2(H-58)

(*) See Section B for handle options.

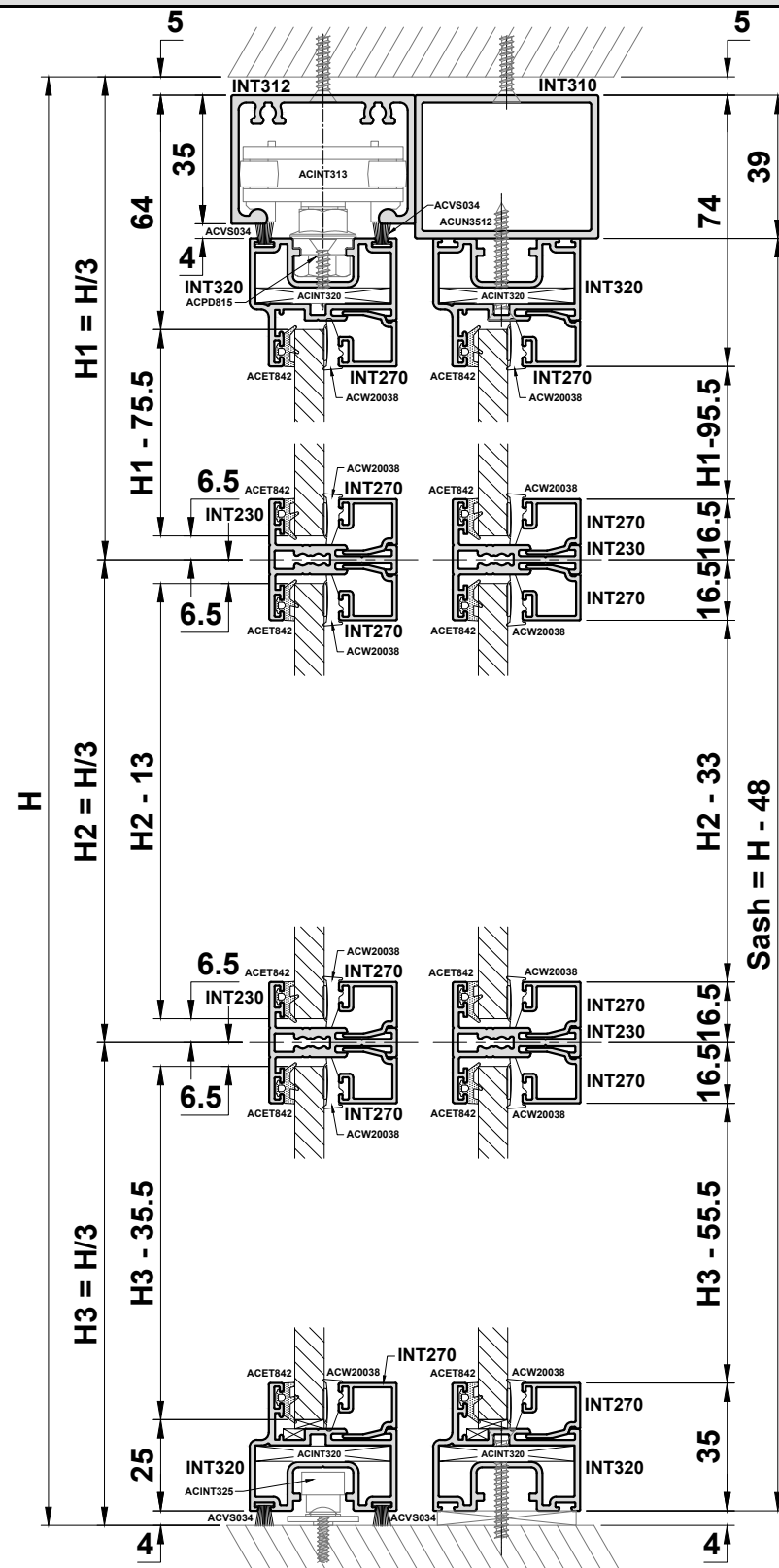


Glass		
G1	1	W - 36 X H1 - 35.5
G2	1	W - 120.5 X H2 - 13
G3	1	W - 36 X H3 - 35.5



Do Not Scale From This Drawing

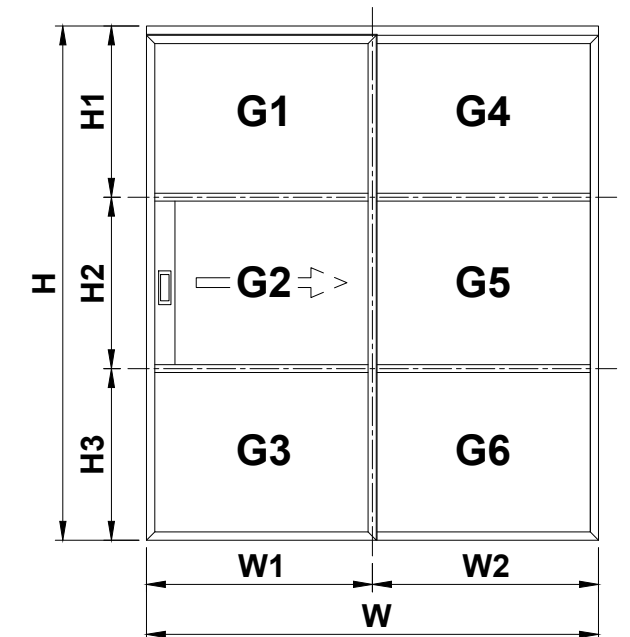
Cutting Information - Single Sliding Door & Fixed Screen



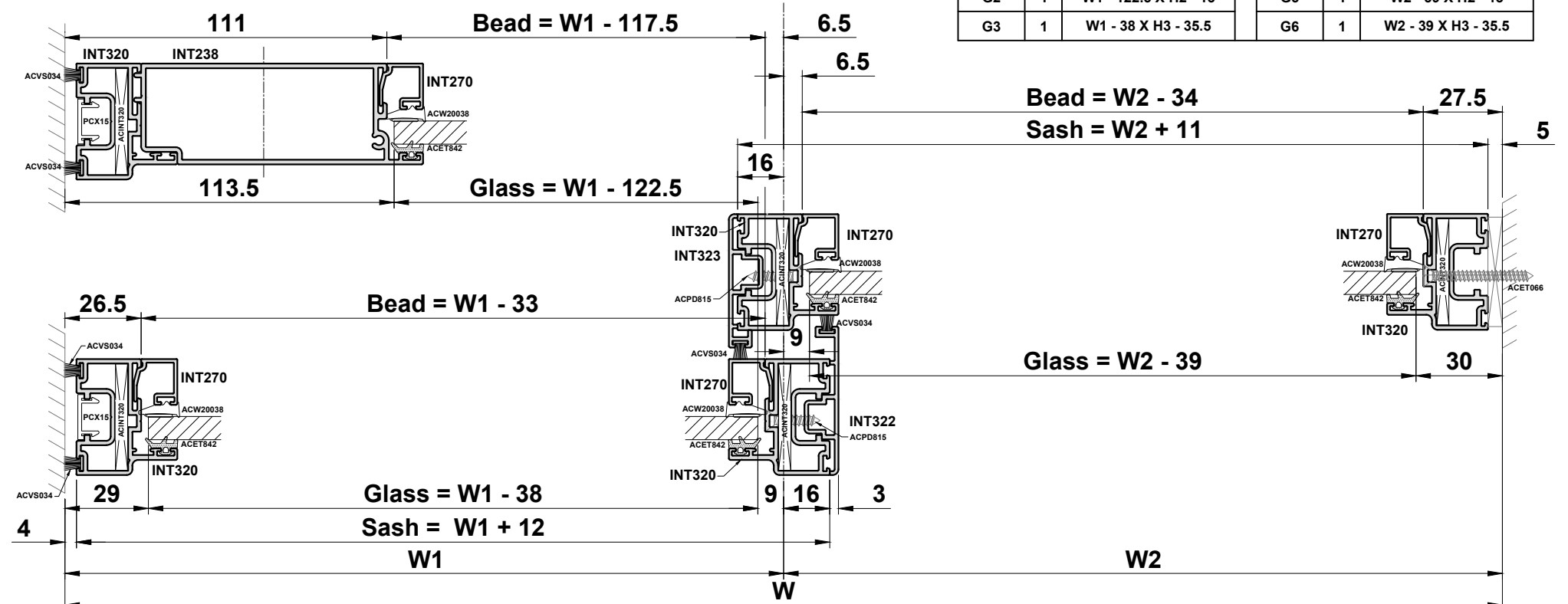
Profile Cutting Schedule				
INT230	2			W1 - 33
INT230	2			W2 - 34
INT238	1			H2 - 8
INT270	4			W1 - 33
INT270	2			W1 - 117.5
INT270	6			W2 - 34
INT270	4			H3 - 55.5
INT270	4			H2 - 33
INT270	4			H1 - 95.5
INT310	1			W
INT312	1			W
INT320	2			W1 + 12
INT320	2			W2 + 11
INT320	4			H - 48
INT322	1			H - 48
INT323	1			H - 48
PCX15	1			H - 48

Accessories		
ACET066	Screws	10
ACET067	Screws	16
ACET842	E Gasket	6(W1-38) + 2(H-98)
ACET842	E Gasket	6(W2-39) + 2(H-98)
ACINT230	Transom Bracket	8
ACINT312	End Cap	1 Pack
ACINT313	Top Carrier Roller	2
ACINT314	Buffer Stop	2
ACINT320	Sash Cleats	8
ACINT325	Bottom Guide	1
ACINT52_	Pull Handle	2
ACPD815	Screws	300mm centres
ACUN3512	Screws	300mm centres
ACUN3547	M4 Connecting Screws	8
ACVS034	Woolpile	4(W1+12) + 4(H-40)
ACW20038	Wedge Gasket	6(W1-38) + 2(H-98)
ACW20038	Wedge Gasket	6(W2-39) + 2(H-98)

(*) See Section B for handle options.

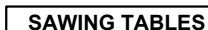


Glass					
G1	1	W1 - 38 X H1 - 75.5	G4	1	W2 - 39 X H1 - 75.5
G2	1	W1 - 122.5 X H2 - 13	G5	1	W2 - 39 X H2 - 13
G3	1	W1 - 38 X H3 - 35.5	G6	1	W2 - 39 X H3 - 35.5



Do Not Scale From This Drawing

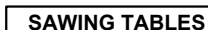
SAWING TABLES



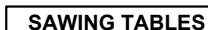
SAWING TABLES

SAWING TABLES

SAWING TABLES

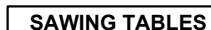


SAWING TABLES



SAWING TABLES

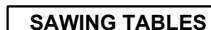
SAWING TABLES



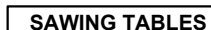
SAWING TABLES

SAWING TABLES

SAWING TABLES

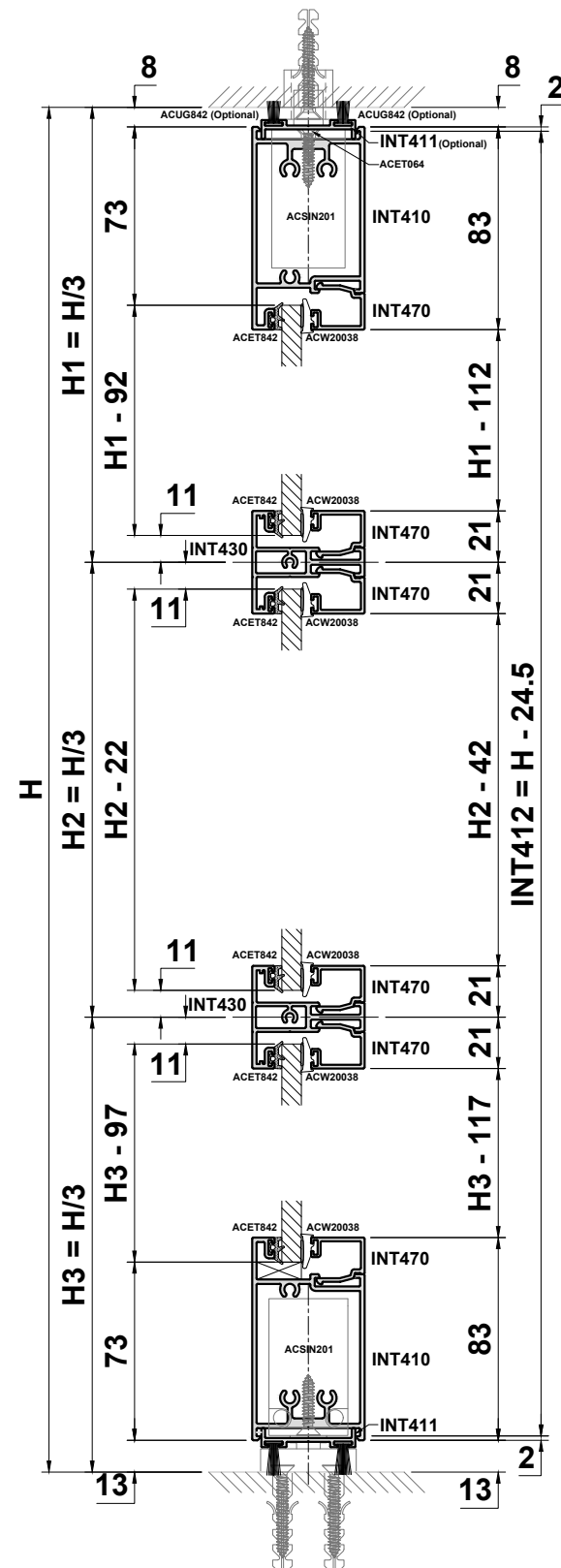


SAWING TABLES



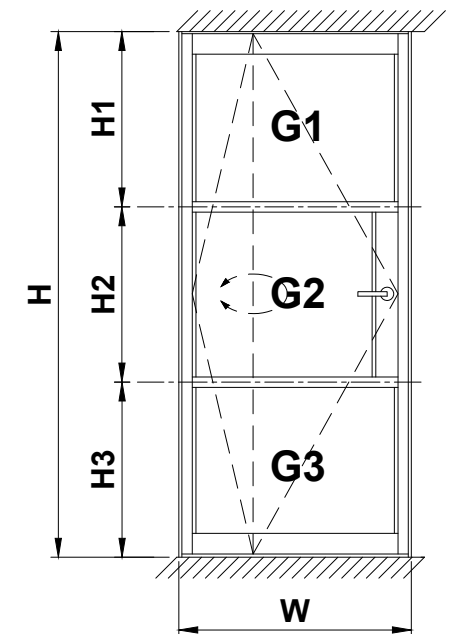
SAWING TABLES

Cutting Information - Pivot Door



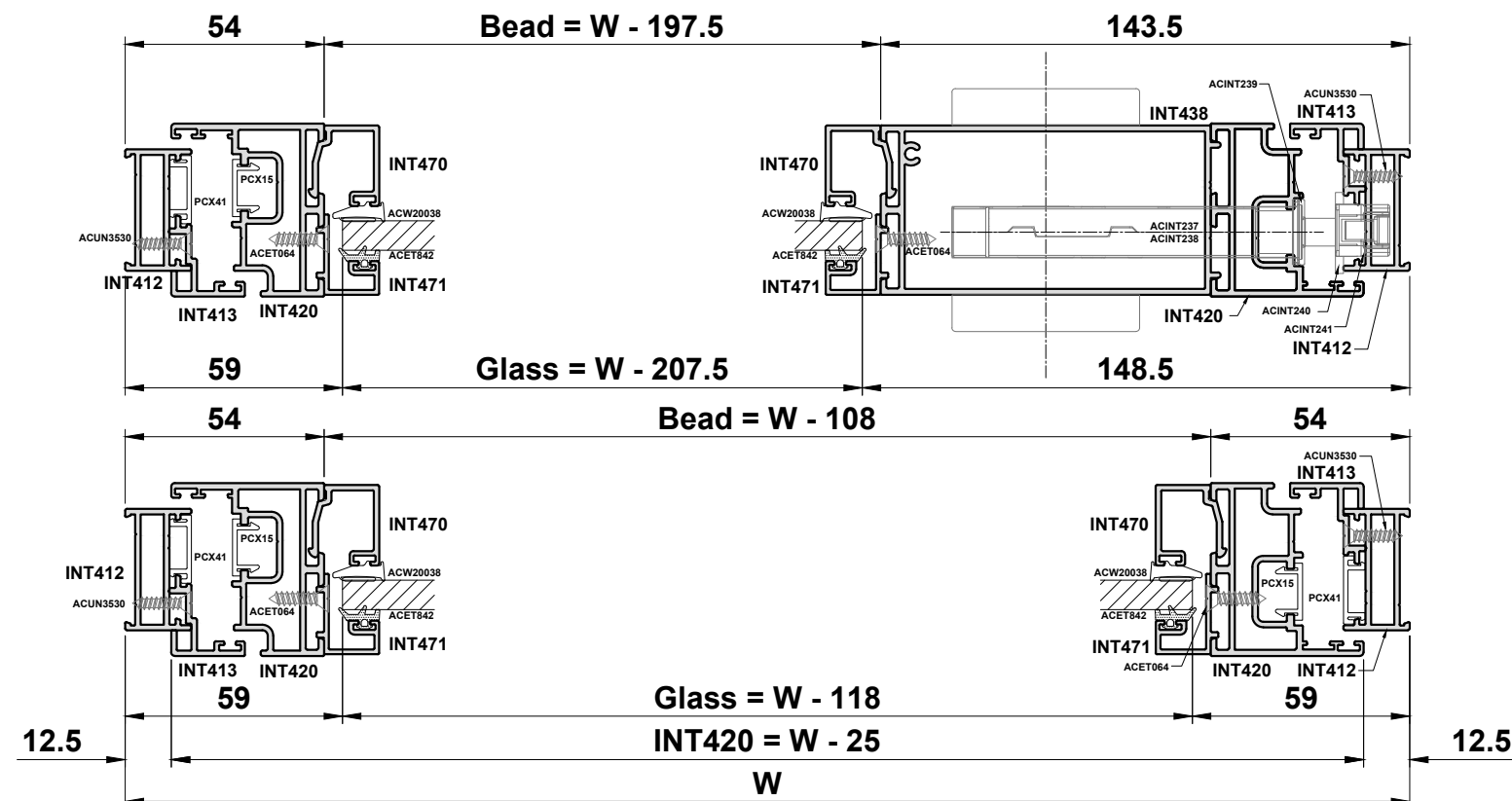
Profile Cutting Schedule				
INT410	2			W - 108
INT411	2 (**)			W - 108
INT412	2			H
INT413	2			H
INT420	2			H - 24.5
INT430	2			W - 108
INT438	1			H2 - 12
INT470	4			W - 108
INT470	2			W - 197.5
INT470	2			H3 - 117
INT470	2			H2 - 42
INT470	2			H1 - 112
INT471	2			H3 - 117
INT471	2			H2 - 42
INT471	2			H1 - 112
PCX15	2			H - 21
PCX41	2			H - 21

Accessories		
ACDR052	Screws	12
ACET064	Screws	300mm centres
ACET066	Screws	6
ACET067	Screws	8
ACET842	E Gasket	6(W-118) + 2(H-167)
ACINT237/238	Magnetic Sash Lock	1
ACINT239	Forend Cover	1
ACINT240	Striker Cover Plate	1
ACINT241	Latch Cover Tray with magnet	1
ACINT411	Woolpile	2(W - 108)
ACINT420	End Cap	2 Pairs
ACINT421	Block	1 Pack
ACINT430	Transom Bracket	4
ACINT5	Lever Handle (*)	Pair
ACSIN201	Pivot System	1
ACUG842	Woolpile (**)	2(W - 108)
ACUN3530	Screws	300mm centres
ACUN3551	M4 Connecting Screws	4
ACVS034	Woolpile	2H
ACW20038	Wedge Gasket	6(W-118) + 2(H-167)



(*) See Section B for handle options.

(**) ACINT411 is optional on the top side as well as ACUG842)



Glass		
G1	1	W - 118 X H1 - 92
G2	1	W - 207.5 X H2 - 22
G3	1	W - 118 X H3 - 97

