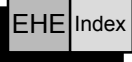
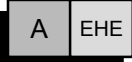







Main Index

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Updates

DATE	PAGE	DESCRIPTION
Aug 2018	B07, B08 B10, C03 E04 E06, E07 E14, F02	HEA345 revised to HEA345N. HEA370 crown seal added. HEA905 punch tool added. HEA372 gasket added to EHE119. Tie bar detail added.
March 2021	All Sections	<p>Accessories Added;</p> <p>ACVG956 - Drill Jig HEA311- Cleat Kit HEA350 - Hip End Cap superseded by HEA351. HEA352 - Rafter End Cap superseded by HEA353. HEA914 - Drill Jig. HEA915 - Drill Jig. HEA916 - Contour Block.</p> <p>Sections Added;</p> <p>EHE108 - Eaves Beam. EHE109 - Eaves Beam with Drip Added. EHE155 - 70mm Coupler.</p>

Specification

GENERAL DESCRIPTION

The "Aliver Orangery" roof system described in this manual is designed to offer a modern aluminium lantern roof with narrow sightlines and concealed fixings.

Aliver Orangery has a fixed pitch of 25°.

The system has been designed to make fabrication and site assembly a quick and simple process.

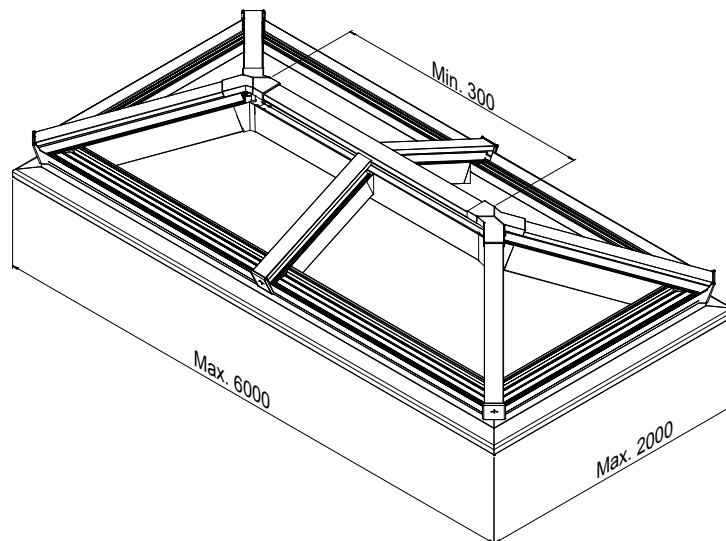
SIZE LIMITS

Max Width: 2000mm

Max Length: 6000mm where fitted to adequate structure.

Important Note - Lengths over 4000mm require a tie bar when fitted on glazed lights or where the structure cannot support the load. See Page E14 for further details.

Min Ridge Length: 300mm



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

Specification

PROFILE SPECIFICATION

The roof sections are constructed of aluminium alloy extrusion to BS EN 755-9 and BS EN 12020, extruded to 6063 T6 alloy. The internal and external extrusions of the eaves beam and glass stop are separated with a polyamide thermal break.

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

- a) Anodised to BS 3987: 1987, grade AA25 to a natural self colour.
- b) Polyester powder organic coating to BS 6496. Dual colour is available.

GENERAL MANUFACTURING

The roof is made by cutting the frame profiles with accurate 45° mitred ends or 90° square ends using Tungsten Carbide Tipped Saw Blades, operating at approximately 3000 rpm.

Eaves beam joints are formed with machine screws into extruded cleats through the mitred ends of the section.

Hip and rafter joints to the eaves beam are formed by fixing through the eaves beam into the relevant bracket with M5 machine screws.

Hip to ridge joints are formed by fixing each section to the crown bracket with machine screws. An additional clamp plate screw is also used at each joint for reinforcement.

Rafter to ridge joints are formed using an M5 rivnut into the side of the ridge to form a fixing for the bracket. The rafter is then fixed to the bracket using M5 machine screws.

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

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

Specification

DRAINAGE

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

EHE110 & EHE119 are supplied as pre-drained, reducing the preparation time for the fabricator.

EAVES BEAM MANUFACTURING INFORMATION

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

Corners are formed by either drilling, using drill jig HEA900, or punching, using punch tool HEA905, the corners ready for the cleat machine screws. Then, 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. The two mitred ends are then brought together and screwed. The small gap sealer ensures a permanent joint and guards against the ingress of moisture and joint movement. After screwing the corner joint, special care should be taken to ensure any excess sealer is removed from painted surfaces.

Aliver Orangery Weather Performance (BS6375-1)

BS EN 1026: 2000 Air Permeability:	Class 2 300Pa
BS EN 1027: 2000 Watertightness:	Class 6A 250Pa
BS EN 12211: 2000 Resistance to Wind Load:	Class C5 2000Pa

Aliver Orangery U Values

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

Specification

GLAZING

All gasket to gasket joints shall be bonded using ACSIL05 rubber sealant.

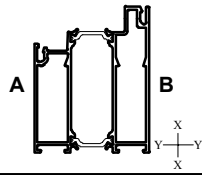
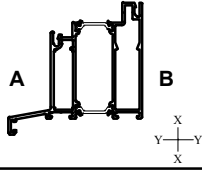
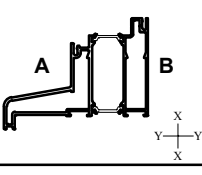
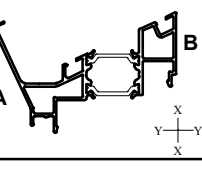
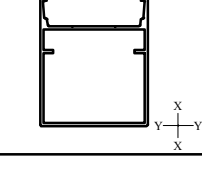
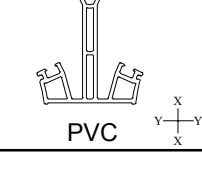
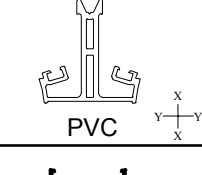
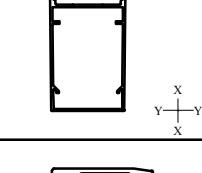
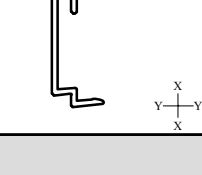
Prior to placing the double glazed units into the openings, EHE128 shall be bonded to bottom edge of the unit using ACUN3610. The unit and EHE128 are then placed in position ensuring the bottom edge is held by EHE119 glass stop.

Units are secured in position using EHE160 & MC150 fixing plates held in place by ACDR052 self tapping fixing screw taking care not to exceed torque of 4Nm at the recommended speed of 1500-1800rpm. Stitch plates may be used to secure the units temporarily until all units are in position. Pressure plates shall be fitted at the top first, working downwards to help avoid uneven fixings.

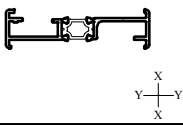
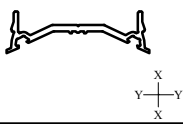
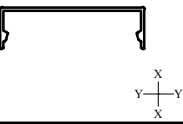
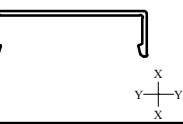
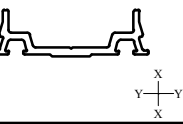
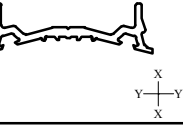
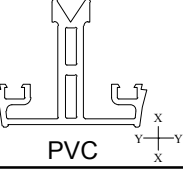


For security, the anti-tamper screws ACUN3507 self tapping fixing screw may be used as an alternative to ACDR052 and ACDR050.

The cover caps are clipped in position using a rubber mallet taking care to strike the corners only to avoid denting the section. Vertical cover caps are fitted first followed by the horizontal caps.

PROFILES : TECHNICAL INFORMATION

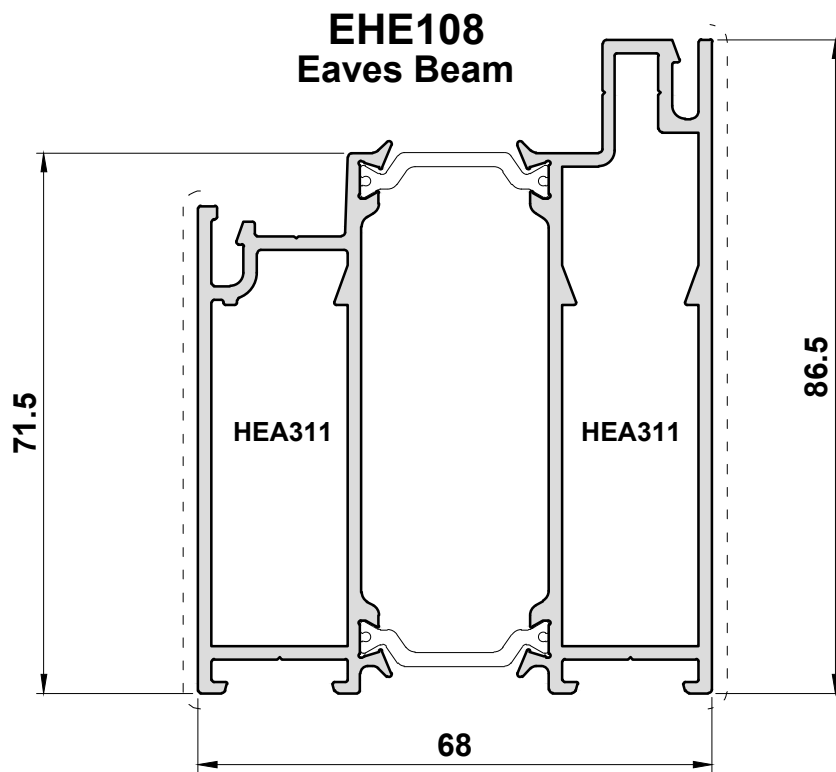
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EHE108		A09	401	152	47.02 — 12.85	53.85 — 13.57	6.5	1	✓	✓	✓	✓	✓	
EHE109		A10	492	195	81.13 — 13.39	70.13 — 14.92	6.5	1	✓	✓	✓	✓	✓	
EHE110		A11	536	211	188.55 — 26.01	85.45 — 20.01	6.3	1	✓	✓	✓	✓	✓	
EHE119		A12	489	110	44.46 — 8.33	10.07 — 3.22	6.3	1	✓	✓	✓	✓	✓	
EHE120		A13	294	208	25.79 — 9.05	24.15 — 7.50	6.5	1	✓	✓	✓	✓		
EHE122		A14	-	-	*** — ***	*** — ***	6.5	*	✓	✓	✓	✓		
EHE123		A14	-	-	*** — ***	*** — ***	6.5	*	✓	✓	✓	✓		
EHE125		A14	349	262	63.06 — 13.53	33.65 — 11.81	6.5	1	✓	✓	✓	✓		
EHE128		A15	154	31	- — -	- — -	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	
EHE155		A12	74	52	9 --- 2.31	0.71 --- 0.69	6.5	1	✓	✓	✓	✓		
EHE160		A16	217	77	- --- -	- --- -	6.5	1	✓	✓	✓	✓		
EHE170		A16	221	120	- --- -	- --- -	6.5	1	✓	✓	✓	✓		
DK052N		A16	180	99	- --- -	- --- -	7	1	✓	✓	✓	✓		
MC150		A16	185	-	- --- -	- --- -	7	1	✓	✓	✓	✓		
MC152		A16	186	-	- --- -	- --- -	7	1	✓	✓	✓	✓		
VR514		A13	-	-	- --- -	- --- -	7	1	✓	✓	✓	✓		
														
														
									A = Outside B = Inside		MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour M = Dual Colour			

Primary Visible Side

Secondary Visible Side

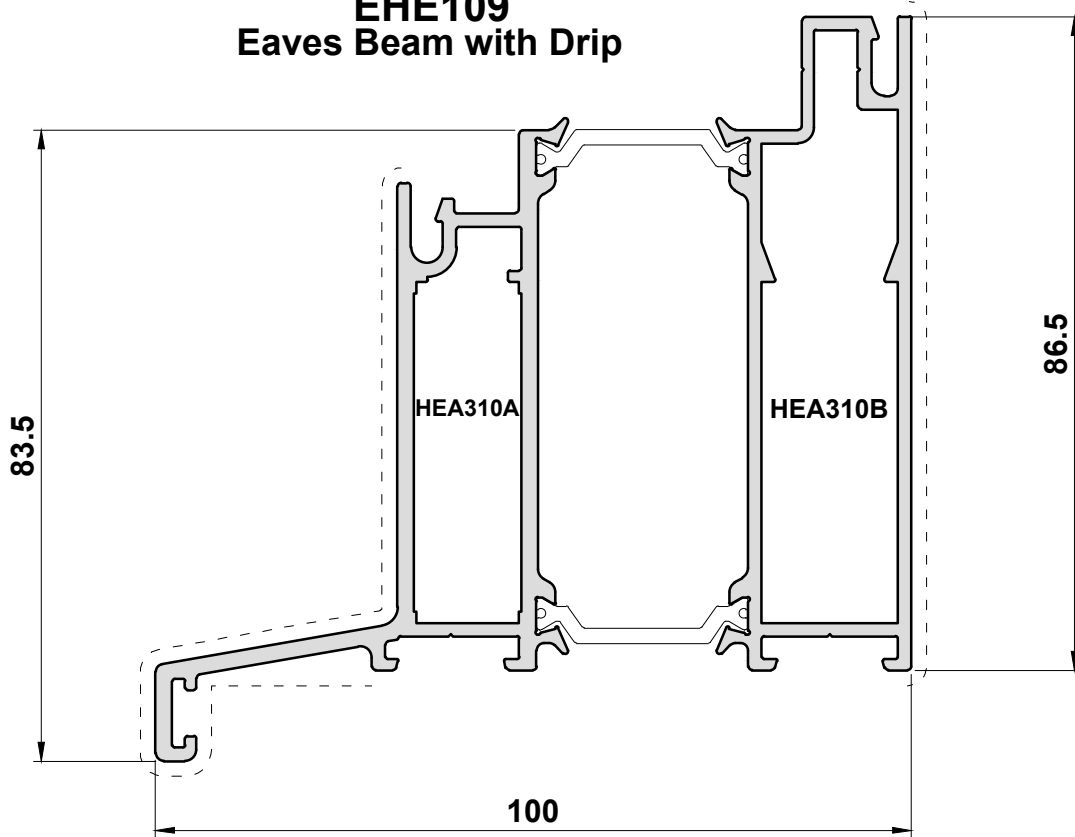


Scale 1:1

Primary Visible Side

Secondary Visible Side

EHE109
Eaves Beam with Drip

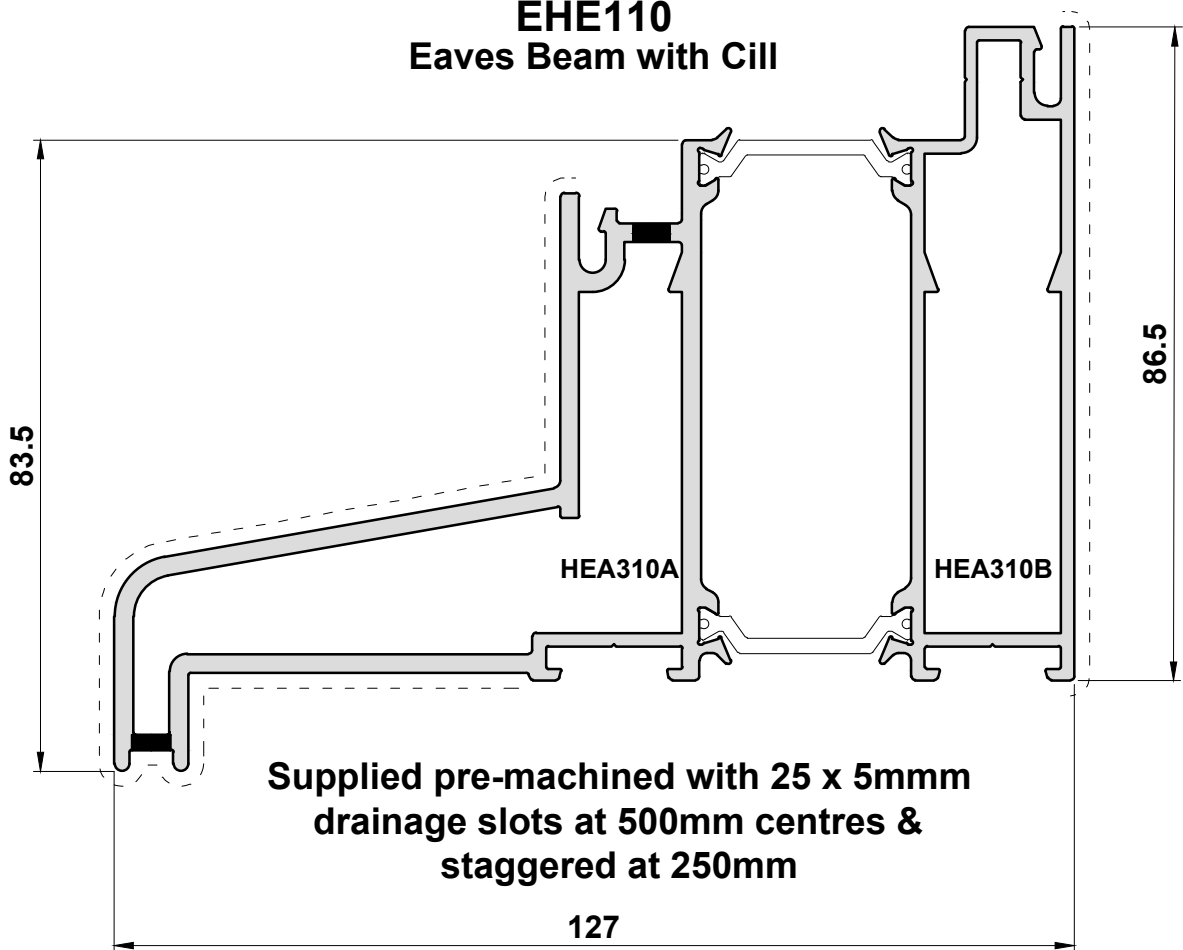


Scale 1:1

Primary Visible Side

Secondary Visible Side

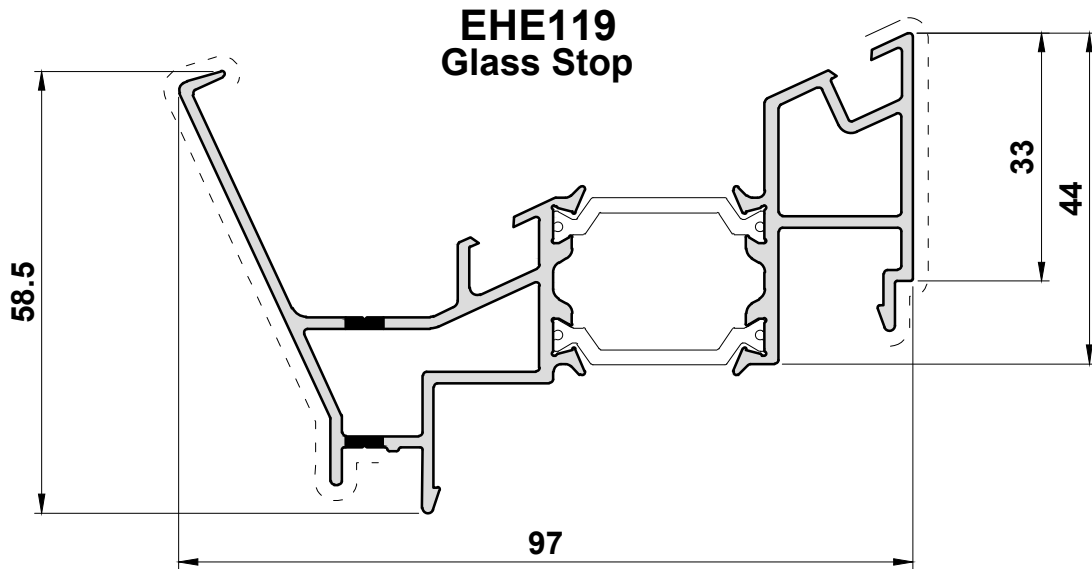
EHE110 Eaves Beam with Cill



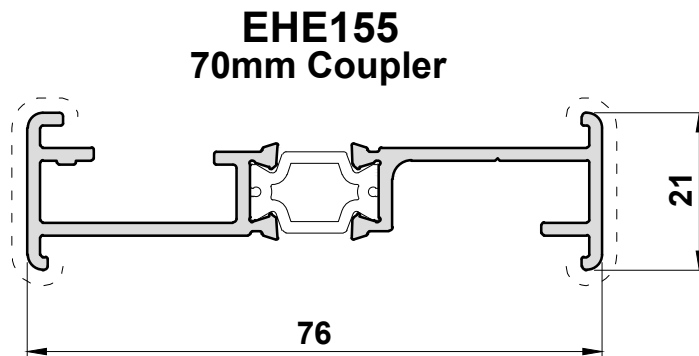
Scale 1:1

Primary Visible Side

Secondary Visible Side



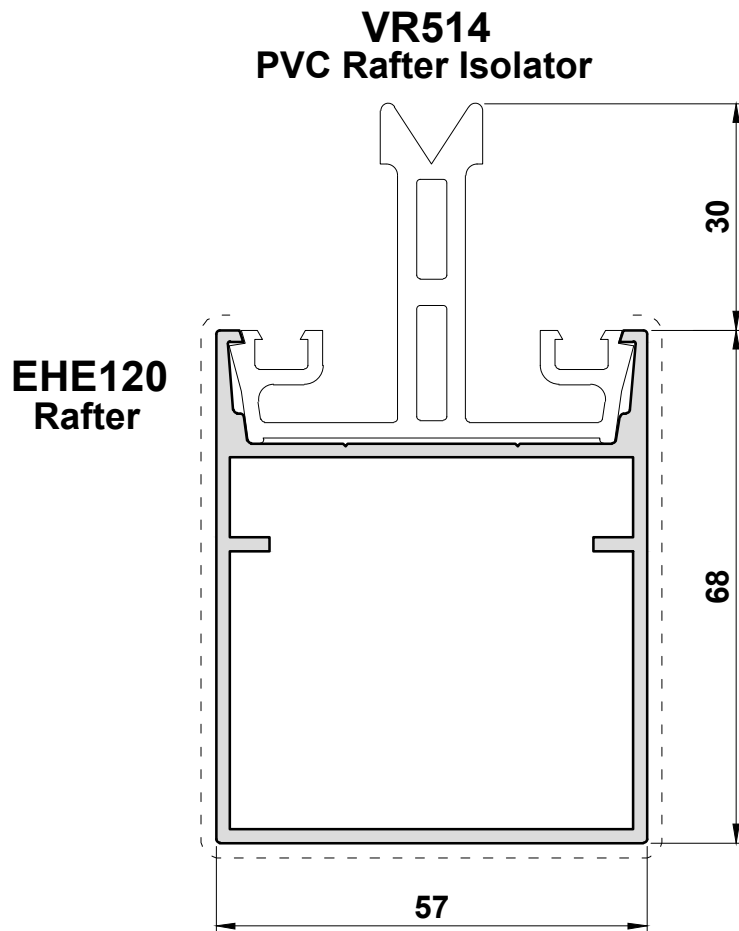
**Supplied pre-machined with 25 x 5mm
drainage slots at 500mm centres &
staggered at 250mm**



Scale 1:1

Primary Visible Side

Secondary Visible Side

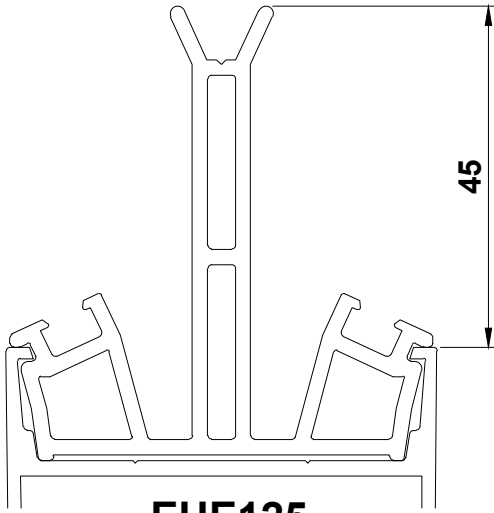


Scale 1:1

Primary Visible Side

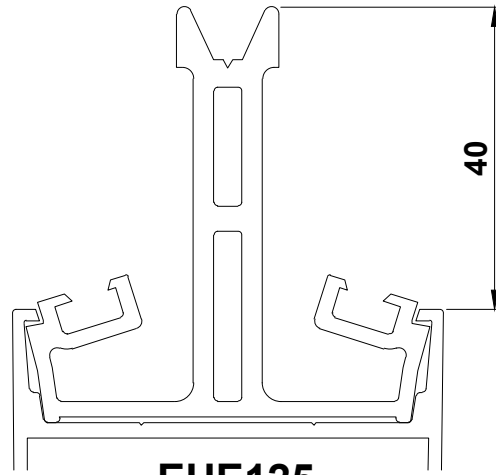
Secondary Visible Side

EHE122
PVC Ridge Isolator



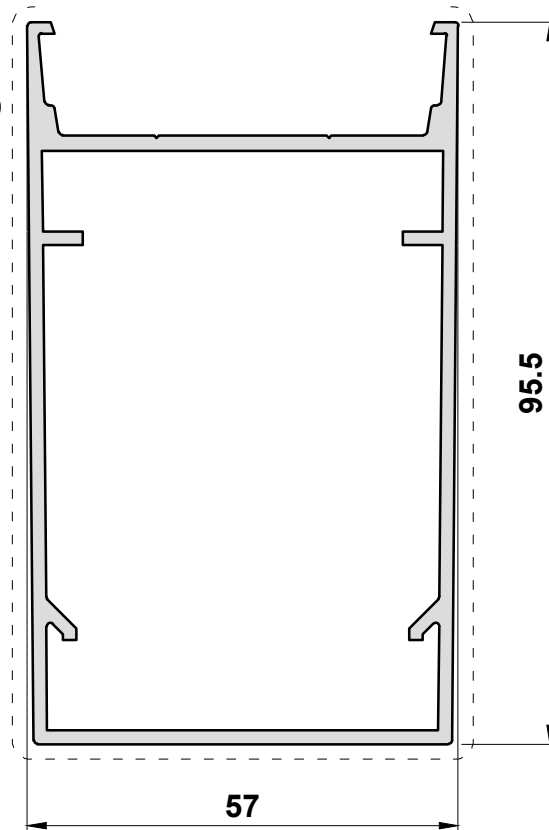
EHE125

EHE123
PVC Hip Isolator



EHE125

EHE125
Ridge & Hip

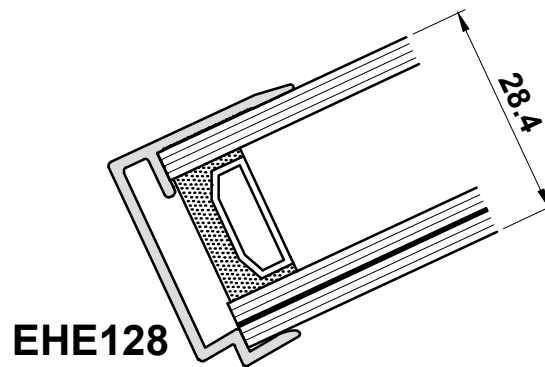
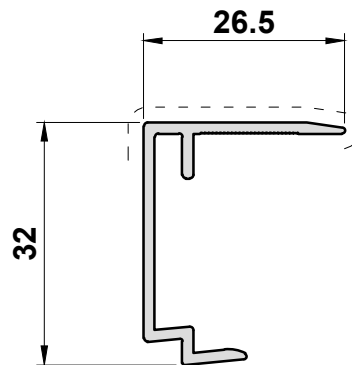


Scale 1:1

Primary Visible Side

Secondary Visible Side

EHE128 Glass End Cover

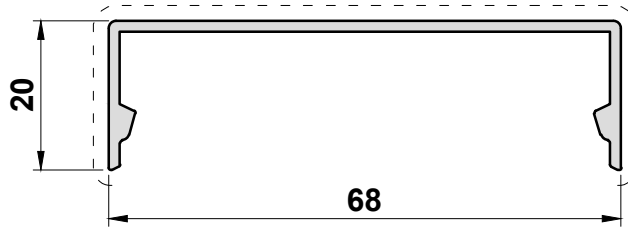


Scale 1:1

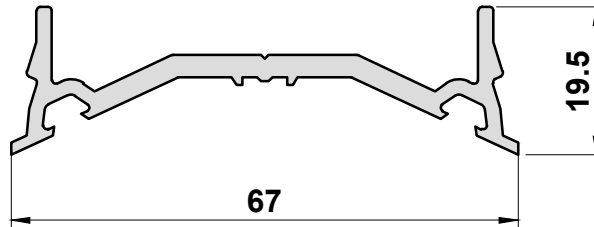
Primary Visible Side

Secondary Visible Side

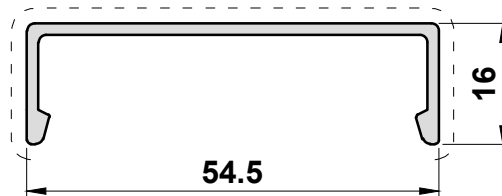
EHE170
Ridge Capping



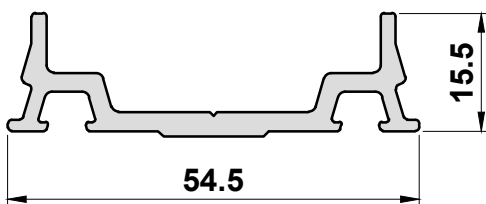
EHE160
Ridge Pressure Plate



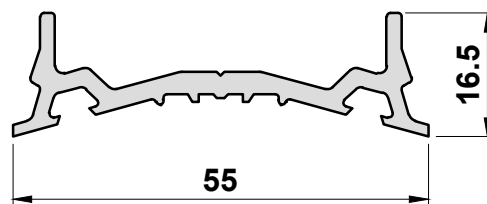
DK052N
Rafter Capping



MC150
Ridge Pressure Plate



MC152
Hip Pressure Plate



Scale 1:1

Section B

Accessories

Photos & Drawings

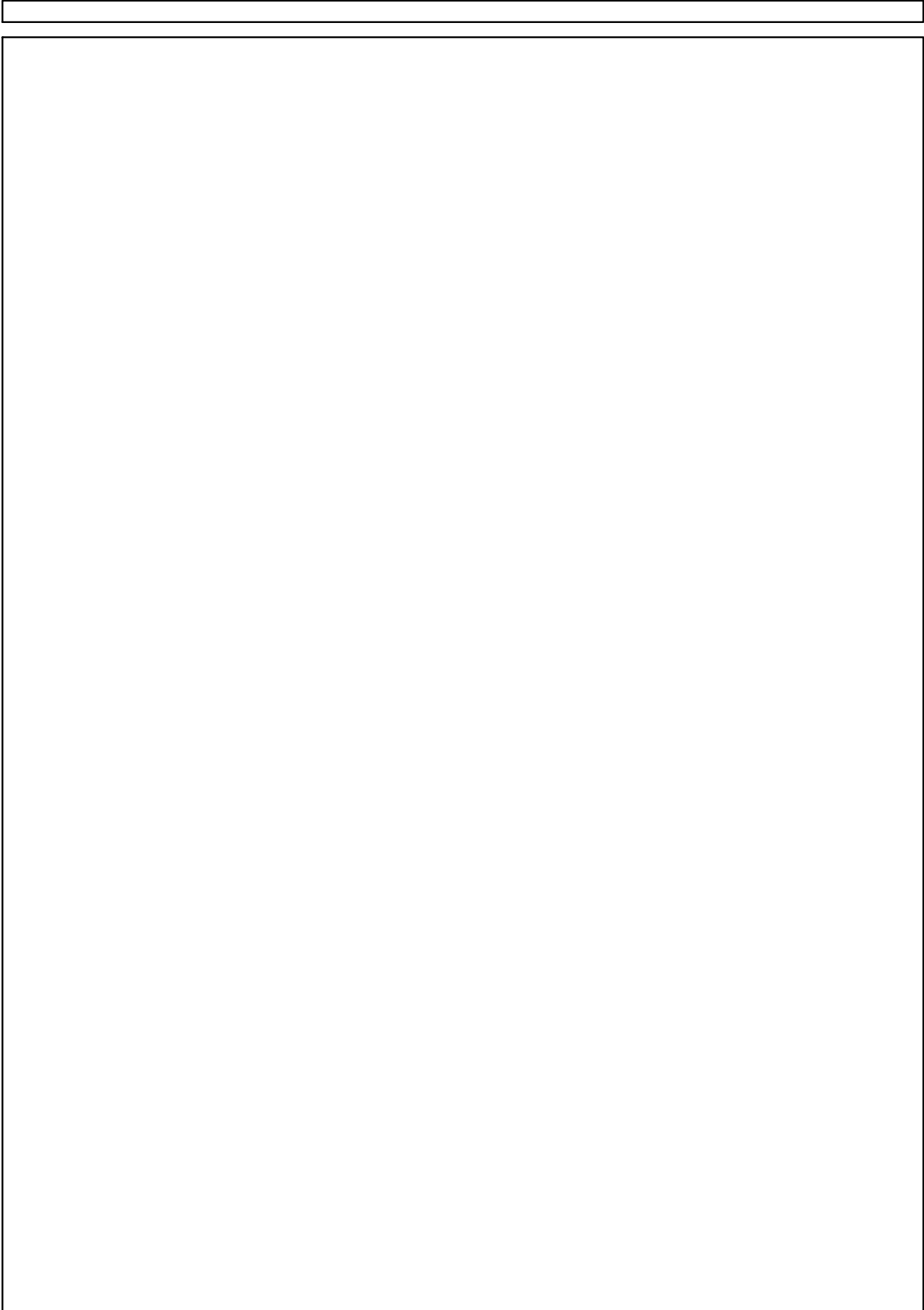


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					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACET041 Cill Nose Bracket Screws = ACET064	1	each	EHE110	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACET064 No. 8 x 16 S/S Self Tapping Countersunk Screw	100	pack	ACET041	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACET067 No. 7 x 13 S/S Self Tapping Countersunk Screw	100	pack	HEA351 HEA353	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	ACET190 4.3 x 45mm CSK Polyamide Screw	1000	pack	EHE119	MF	✓
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
 <small>T-BARS ACVG66=2.5mm ACVG66=3.0mm ACVL150=4.0mm</small>	 <small>Screw (Grub)</small>	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	 		

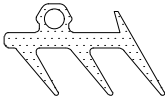
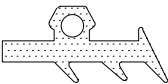

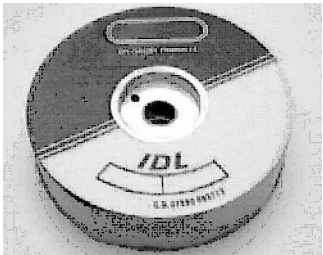
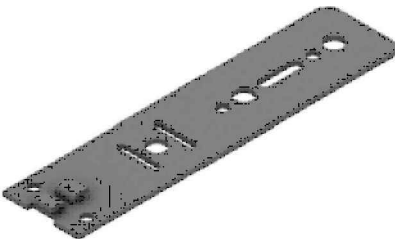


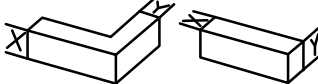
Image	Part Code	Pack	Unit	Application	Colour																		
	ACMC019 Gasket for EHE160	100	m	EHE160	<table border="1"> <tr><td>MF</td><td>✓</td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td>✓</td></tr> <tr><td>PC</td><td></td></tr> </table>	MF	✓	SA		KL		HP		SSC		SMC		W		Z	✓	PC	
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	ACMC150 Gasket for MC150	100	m	MC150	<table border="1"> <tr><td>MF</td><td></td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td>✓</td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		W		Z	✓	PC	
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	ACMC635 Retaining Gasket	100	m	EHE122 EHE123 VR514	<table border="1"> <tr><td>MF</td><td></td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td>✓</td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		W		Z	✓	PC	
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SA																							
KL																							
HP																							
SSC																							
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Z	✓																						
PC																							
	ACMX09811 55mm Wide Sealing Tape	20	m		<table border="1"> <tr><td>MF</td><td></td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		W		Z		PC	
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	ACUN23X Screw Fixing Lug ACUN232: B = 240MM ACUN233: B = 280MM	100	Pack		<table border="1"> <tr><td>MF</td><td>✓</td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF	✓	SA		KL		HP		SSC		SMC		W		Z		PC	
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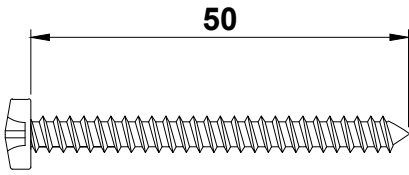


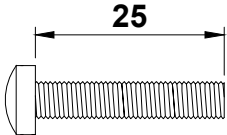
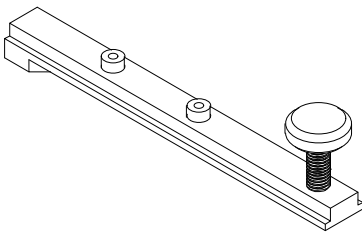
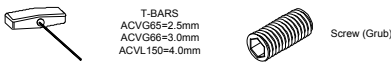
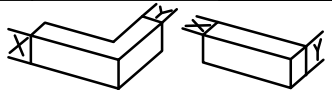
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	ACUN3507 No10 x 50mm Anti-Tamper S/S Screw	100	m	EHE122 EHE123 VR514	<table border="1"> <tr><td>MF</td><td>✓</td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF	✓	SA		KL		HP		SSC		SMC		W		Z		PC	
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	ACUN3508 ACUN3507 Bit	1	each	ACUN3507	<table border="1"> <tr><td>MF</td><td>✓</td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF	✓	SA		KL		HP		SSC		SMC		W		Z		PC	
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	ACUN3509 M5 Rivnut	100	pack	HEA343	<table border="1"> <tr><td>MF</td><td>✓</td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF	✓	SA		KL		HP		SSC		SMC		W		Z		PC	
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	ACUN3514 M5 x 25mm S/S Pan Head	100	pack	EHE110	<table border="1"> <tr><td>MF</td><td>✓</td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF	✓	SA		KL		HP		SSC		SMC		W		Z		PC	
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	ACVG956 EHE108/109 Corner Drill Jig	1	each	EHE108 EHE109 EHE110	<table border="1"> <tr><td>MF</td><td>✓</td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF	✓	SA		KL		HP		SSC		SMC		W		Z		PC	
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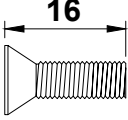
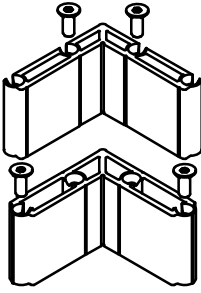
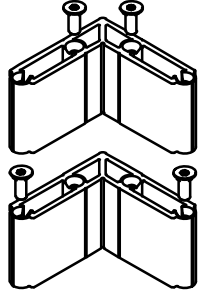
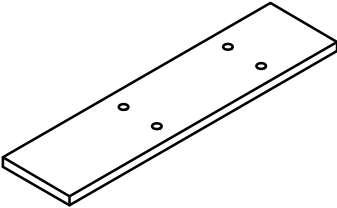
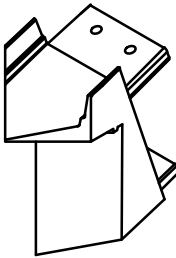

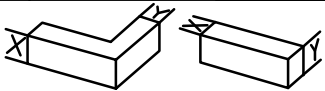
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	HEA310 EHE110 Corner Cleats	1	set	EHE109 EHE110	<table border="1"> <tr><td>MF</td><td>✓</td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF	✓	SA		KL		HP		SSC		SMC		W		Z		PC	
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W																							
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	HEA311 EHE108 Corner Cleats	1	set	EHE108	<table border="1"> <tr><td>MF</td><td>✓</td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF	✓	SA		KL		HP		SSC		SMC		W		Z		PC	
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	HEA332 Rafter Tie Bar Bracket	1	each	HEA904	<table border="1"> <tr><td>MF</td><td>✓</td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF	✓	SA		KL		HP		SSC		SMC		W		Z		PC	
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	HEA340 Rafter to Eaves Bracket	1	each	HEA355	<table border="1"> <tr><td>MF</td><td>✓</td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td>✓</td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td>✓</td></tr> <tr><td>Z</td><td>✓</td></tr> <tr><td>PC</td><td></td></tr> </table>	MF	✓	SA		KL	✓	HP		SSC		SMC		W	✓	Z	✓	PC	
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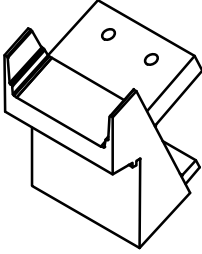
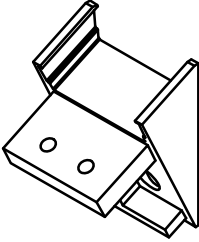
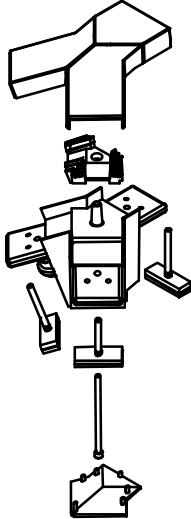
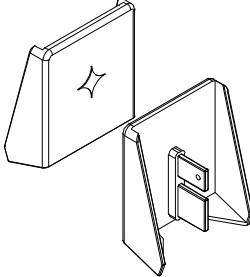


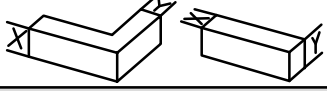
Image	Part Code	Pack	Unit	Application	Colour	
	HEA342 Rafter to Eaves Bracket	1	each	HEA356	MF	✓
					SA	
					KL	✓
					HP	
					SSC	
					SMC	
					W	✓
					Z	✓
					PC	
	HEA343 Rafter to Ridge Bracket	1	each	HEA356	MF	✓
					SA	
					KL	✓
					HP	
					SSC	
					SMC	
					W	✓
					Z	✓
					PC	
	HEA345N Ridge to Hip Bracket Kit Consists of: 1 x Top Cover Cap 1 x Rubber Seal 1 x Crown Body 1 x M5 x 100mm Fixing 3 x Clamp Sets 1 x Bottom Cover	1	set	HEA355 HEA370N	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
	HEA351 Hip End Cast Cover Cap	1	each	ACET067 EHE123	MF	✓
					SA	
					KL	✓
					HP	
					SSC	
					SMC	
					W	✓
					Z	✓
					PC	
 <p>T-BARS ACVG66=2.5mm ACVG66=3.0mm ACVL150=4.0mm</p>  <p>Screw (Grub)</p>	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	W = White Z = Black				

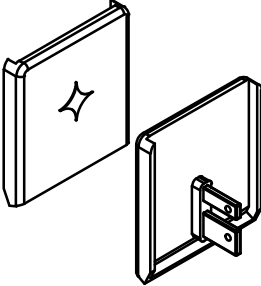


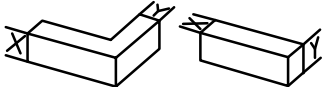
Image	Part Code	Pack	Unit	Application	Colour	
	HEA353 Rafter End Cast Cover Cap	1	each	ACET067 VR514	MF	✓
					SA	
					KL	✓
					HP	
					SSC	
					SMC	
					W	✓
					Z	✓
					PC	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	
					MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
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					PC	
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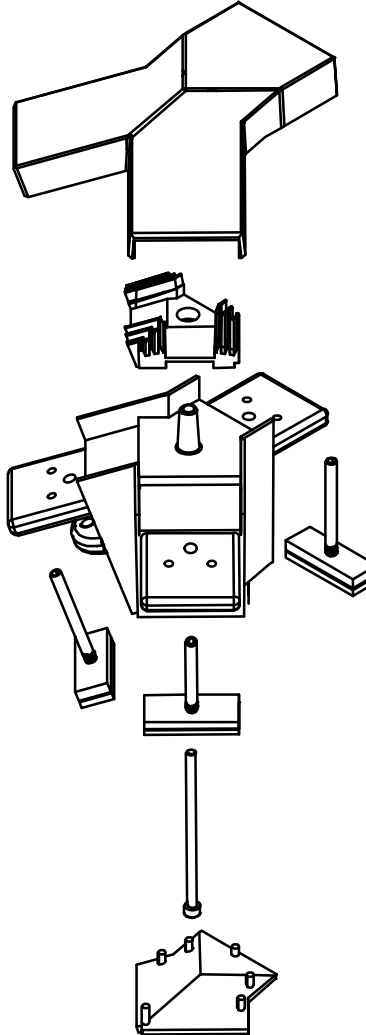


Image	Part Code	Pack	Unit	Application	Colour																		
 <p>HEA355 Main Kit Consists of: 4 x HEA340 Hip Brackets 2 x HEA345N Crown Kits 4 x HEA351 Hip End Caps</p>	<p>HEA355 Main Kit Consists of: 4 x HEA340 Hip Brackets 2 x HEA345N Crown Kits 4 x HEA351 Hip End Caps</p>	1	kit	<p>HEA340 HEA345N HEA351</p>	<table border="1"> <tr><td>MF</td><td></td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		W		Z		PC	
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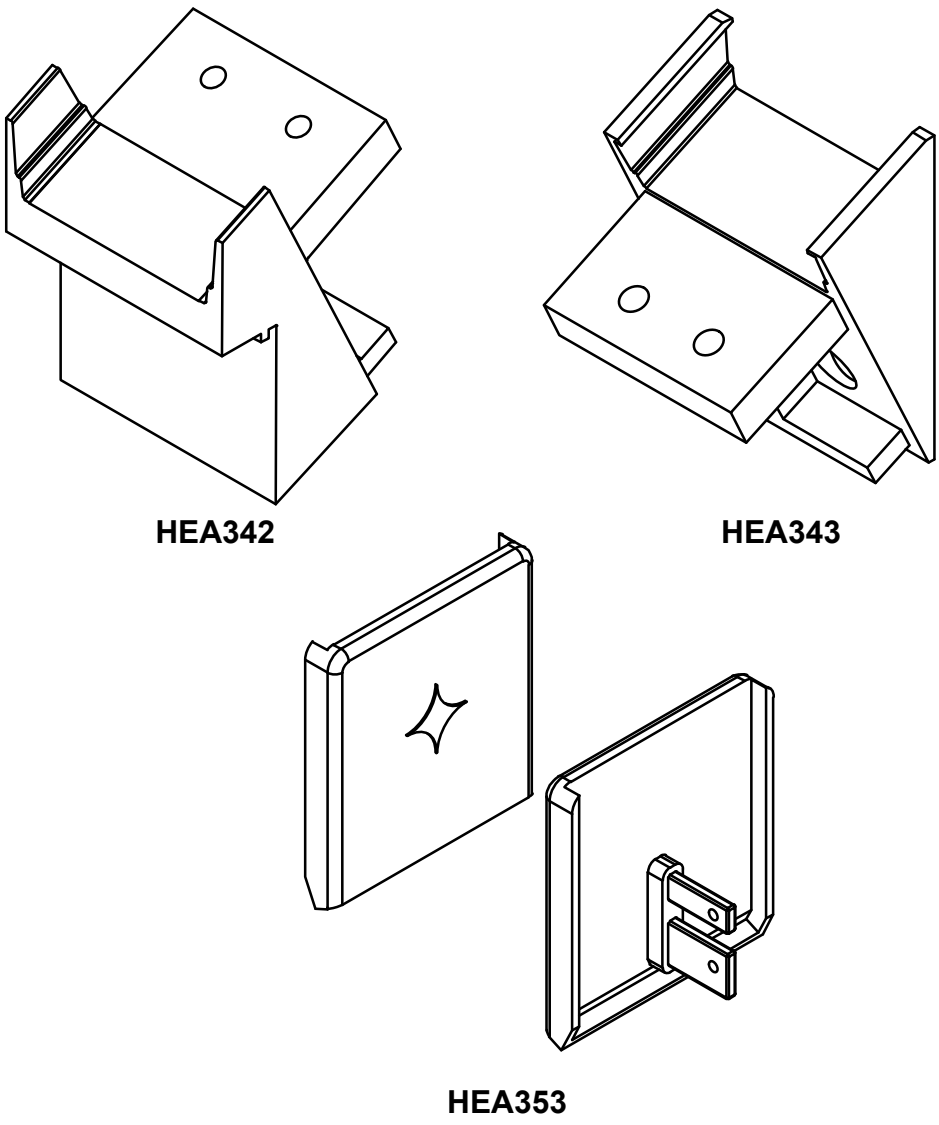

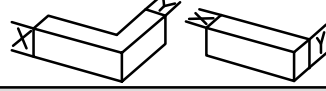
Image	Part Code	Pack	Unit	Application	Colour																		
 <p style="text-align: center;">HEA342 HEA343</p> <p style="text-align: center;">HEA353</p>	<p>HEA356</p> <p>Rafter Kit Consists of:</p> <p>2 x HEA342 Rafter to Eaves Bracket 2 x HEA343 Rafter to Ridge Bracket 2 x HEA353 Rafter End Caps</p>	1	kit	<p>HEA342 HEA343 HEA353</p>	<table border="1"> <tr><td>MF</td><td></td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		W		Z		PC	
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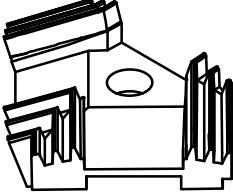
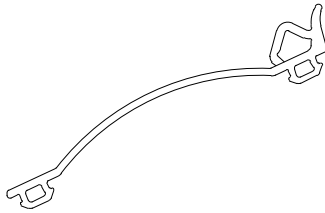
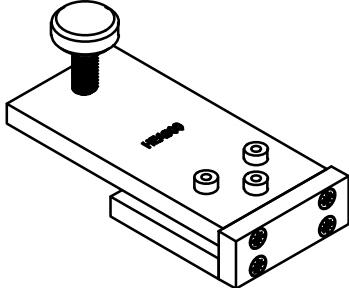
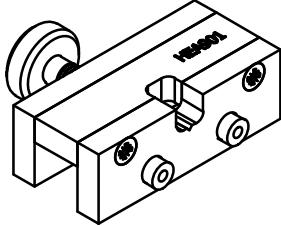
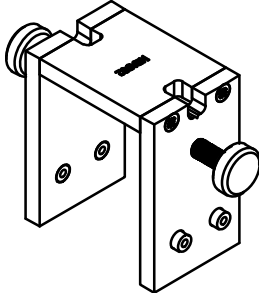



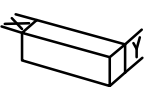
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	HEA370 Crown Rubber Seal	1	each	HEA345N HEA355	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	✓
					PC	
	HEA372 EHE119 Gasket	25	m	EHE119	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	✓
					PC	
	HEA900 Ridge, Hip & Rafter Drill Jig	1	each	EHE120 EHE125 HEA340 HEA342 HEA343 HEA345	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	✓
	HEA901 HEA340 & HEA342 Drill Jig	1	each	EHE110 HEA340 HEA342	MF	
					SA	
					KL	
					HP	
					SSC	
					SMC	
					W	
					Z	
					PC	✓
	HEA902 HEA343 Drill Jig	1	each	EHE125 HEA343	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	 		

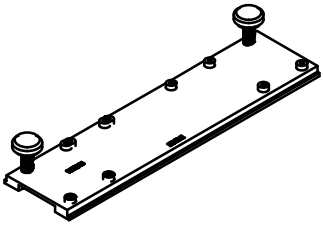
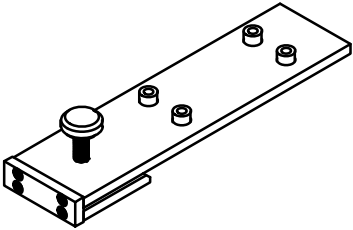
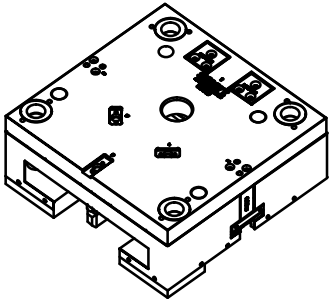
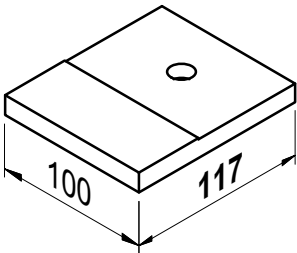
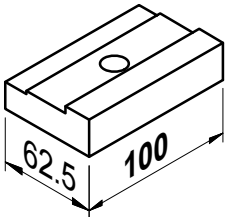


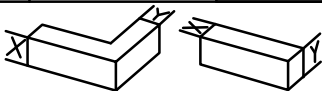
Image	Part Code	Pack	Unit	Application	Colour																		
	HEA903 EHE110 Corner Drill Jig	1	each	EHE110 HEA310	<table border="1"> <tr><td>MF</td><td>✓</td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF	✓	SA		KL		HP		SSC		SMC		W		Z		PC	
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SA																							
KL																							
HP																							
SSC																							
SMC																							
W																							
Z																							
PC																							
	HEA904 Tie Bar Drill Jig	1	each	EHE120 HEA332 HEA336	<table border="1"> <tr><td>MF</td><td>✓</td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF	✓	SA		KL		HP		SSC		SMC		W		Z		PC	
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PC																							
	HEA905 Punch Tool	1	each	EHE110 EHE120 EHE125 EHE128	<table border="1"> <tr><td>MF</td><td>✓</td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF	✓	SA		KL		HP		SSC		SMC		W		Z		PC	
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HP																							
SSC																							
SMC																							
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PC																							
	HEA910 Contour Block for EHE110	1	each	EHE110	<table border="1"> <tr><td>MF</td><td></td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td>✓</td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		W		Z	✓	PC	
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PC																							
	HEA911 Contour Block for EHE119	1	each	EHE119	<table border="1"> <tr><td>MF</td><td></td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td>✓</td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		W		Z	✓	PC	
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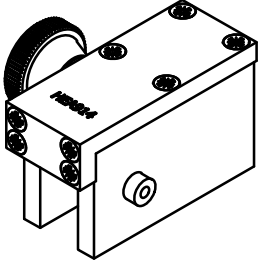
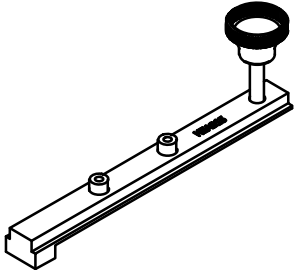
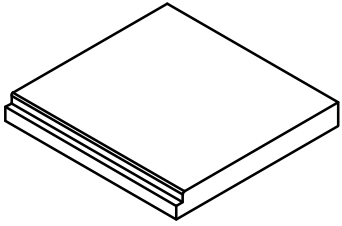
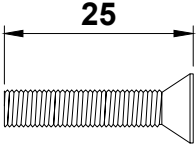
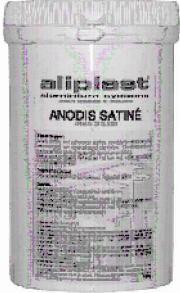


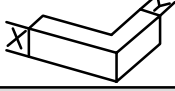
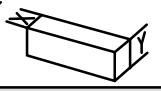
Image	Part Code	Pack	Unit	Application	Colour
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					KL <input type="checkbox"/>
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					SSC <input type="checkbox"/>
					SMC <input type="checkbox"/>
					W <input type="checkbox"/>
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					PC <input type="checkbox"/>
					PC <input type="checkbox"/>
	HEA915 EHE109 Corner Drill Jig	1	each	EHE109 EHE110	MF <input checked="" type="checkbox"/>
					SA <input type="checkbox"/>
					KL <input type="checkbox"/>
					HP <input type="checkbox"/>
					SSC <input type="checkbox"/>
					SMC <input type="checkbox"/>
					W <input type="checkbox"/>
					Z <input type="checkbox"/>
					PC <input type="checkbox"/>
					PC <input type="checkbox"/>
	HEA916 EHE109 Contour Block	1	pair	EHE109	MF <input type="checkbox"/>
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					PC <input type="checkbox"/>
	WCA143 M5 x 25mm Screw	100	pack	EHE125 HEA343	MF <input checked="" type="checkbox"/>
					SA <input type="checkbox"/>
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					SMC <input type="checkbox"/>
					W <input type="checkbox"/>
					Z <input type="checkbox"/>
					PC <input type="checkbox"/>
					PC <input type="checkbox"/>
	ACMX09700 Alu-Polish Cleaning emulsion for aluminium oxide.	1	each		MF <input checked="" type="checkbox"/>
					SA <input type="checkbox"/>
					KL <input type="checkbox"/>
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					SSC <input type="checkbox"/>
					SMC <input type="checkbox"/>
					W <input type="checkbox"/>
					Z <input type="checkbox"/>
					PC <input type="checkbox"/>
					PC <input type="checkbox"/>
 <p>T-BARS ACVG66=2.5mm ACVG66=3.0mm ACVL150=4.0mm</p>  <p>Screw (Grub)</p>	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	W = White Z = Black	 		



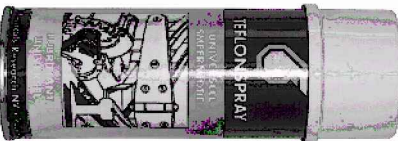






Image	Part Code	Pack	Unit	Application	Colour
	ACMX09761 Maxi Gloss Protection for painted and anodised surfaces.	1	each		MF SA KL HP SSC SMC W Z PC
	ACMX09762 Alu. Bright Cleaner for rough, anodised or enamelled aluminium frames.	1	each		MF SA KL HP SSC SMC W Z PC
	ACMX09763 Teflon Spray Lubricant	1	each		MF SA KL HP SSC SMC W Z PC
	ACMX09764 Maxi Cleaner For cleaning oily surfaces.	1	each		MF SA KL HP SSC SMC W Z PC
	ACMX09765 Glue Cleaner De-grease and silicone remover.	1	each		MF SA KL HP SSC SMC W Z PC
 <p>T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm</p>  <p>Screw (Grub)</p>	<p>MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome</p> <p>W = White Z = Black</p>	 			





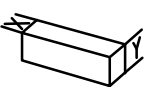
Image	Part Code	Pack	Unit	Application	Colour
	ACMX09770 Roll & Wrap 100mm	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACMX09775 Grip Handwrap	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACMX09801 Protective Tape 50mm	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACMX09802 Protective Tape 70mm	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
	ACMX09803 Protective Tape 100mm	1	each		MF
					SA
					KL
					HP
					SSC
					SMC
					W
					Z
					PC
 <p>T-BARS ACV666=2.5mm ACV666=3.0mm ACVL150=4.0mm</p>  <p>Screw (Grub)</p>	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	W = White Z = Black	 		








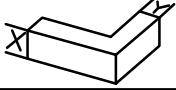
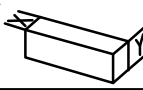



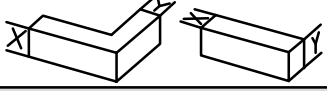
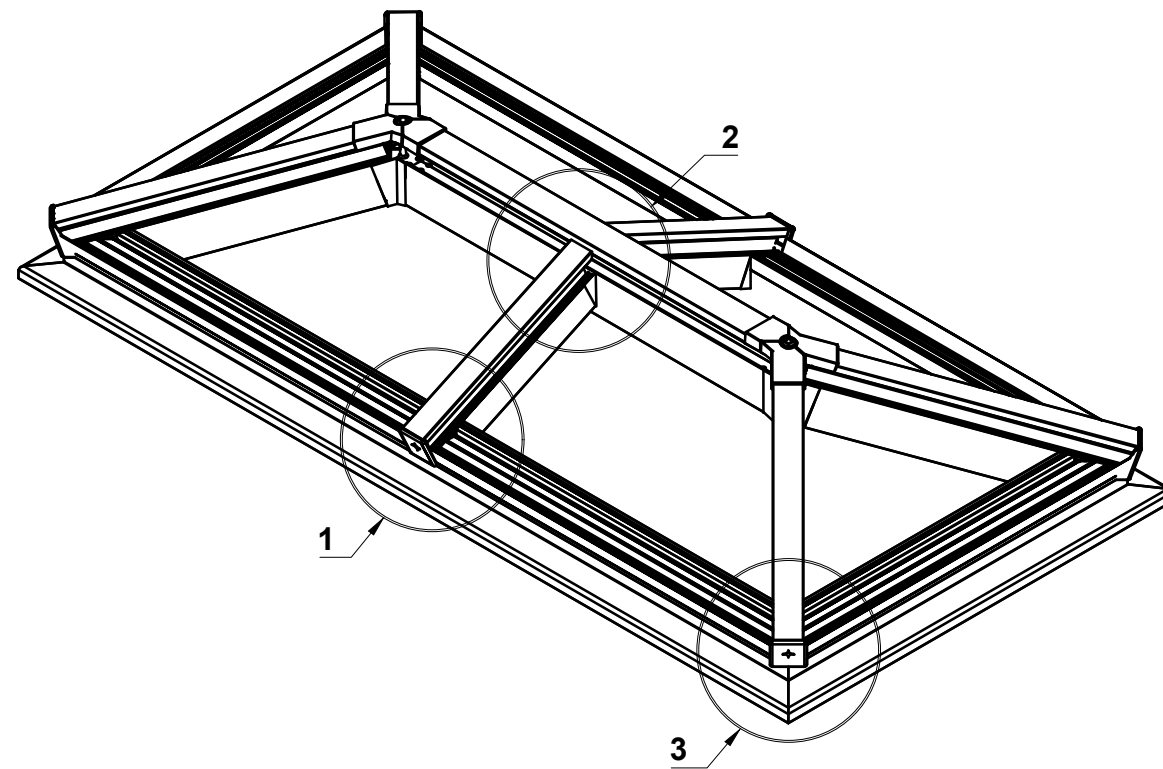
Image	Part Code	Pack	Unit	Application	Colour																		
	ACSIL05 Rubber Sealant	1	each		<table border="1"> <tr><td>MF</td><td></td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		W		Z		PC	
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	ACSIL04 Sealing Glue Order with suffix of KL colour (eg.ACSIL04KL005) or BL=Black/WP=White/ CL=Clear	1	each		<table border="1"> <tr><td>MF</td><td></td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td>✓</td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td>✓</td></tr> <tr><td>Z</td><td>✓</td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL	✓	HP		SSC		SMC		W	✓	Z	✓	PC	
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	ACSIL08 Silicon Gun	1	each		<table border="1"> <tr><td>MF</td><td></td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		W		Z		PC	
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	ACSIL014 Anti-Corrosion Coating	1	each		<table border="1"> <tr><td>MF</td><td>✓</td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF	✓	SA		KL		HP		SSC		SMC		W		Z		PC	
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Image	Part Code	Pack	Unit	Application	Colour																		
	ACUN3610 Single Component Adhesive	1	each		<table border="1"> <tr><td>MF</td><td></td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		W		Z		PC	
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	ACUN3612 Surface Activator (1L)	1	each		<table border="1"> <tr><td>MF</td><td></td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		W		Z		PC	
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	ACUN3900 Gasket Roller	1	each		<table border="1"> <tr><td>MF</td><td></td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		W		Z		PC	
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<p>T-BARS ACVG66=2.5mm ACVG66=3.0mm ACVL150=4.0mm</p> <p>Screw (Grub)</p>	<p>MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome</p>	<p>W = White Z = Black</p>																					

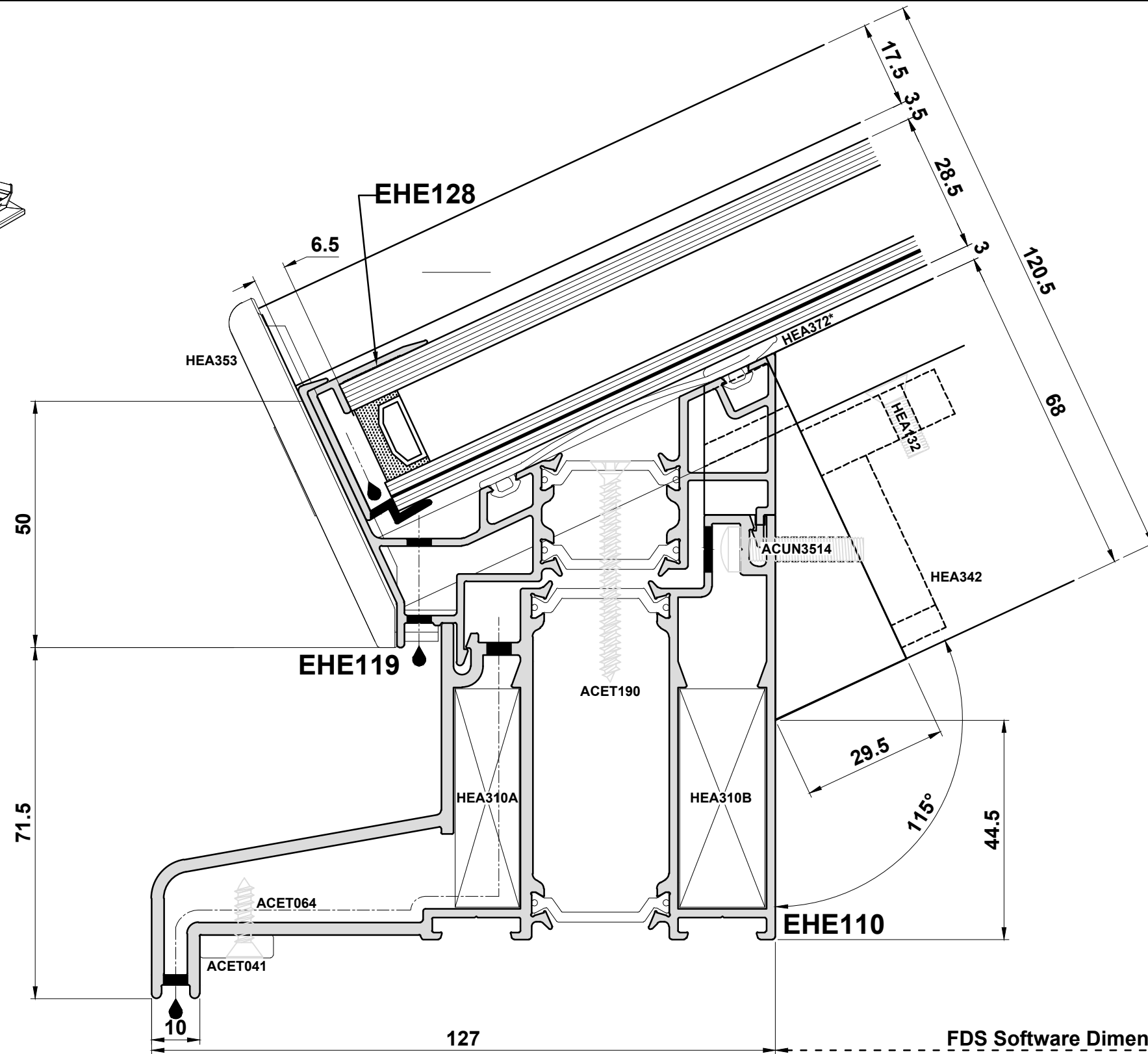
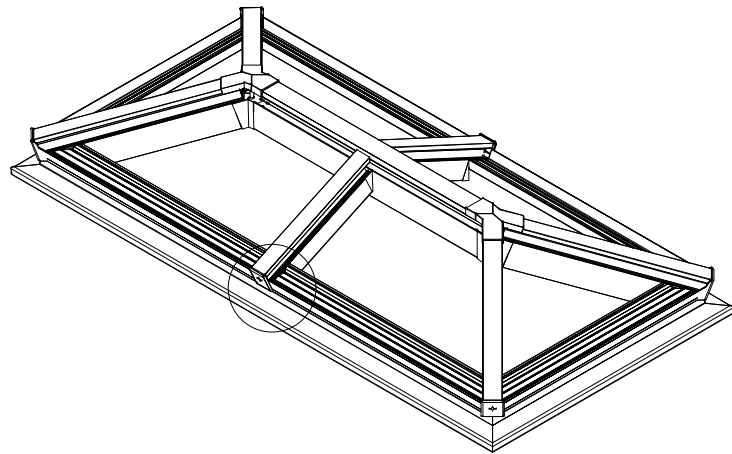
Section C

Sections

Scale Elevations



Detail 1A: Eaves

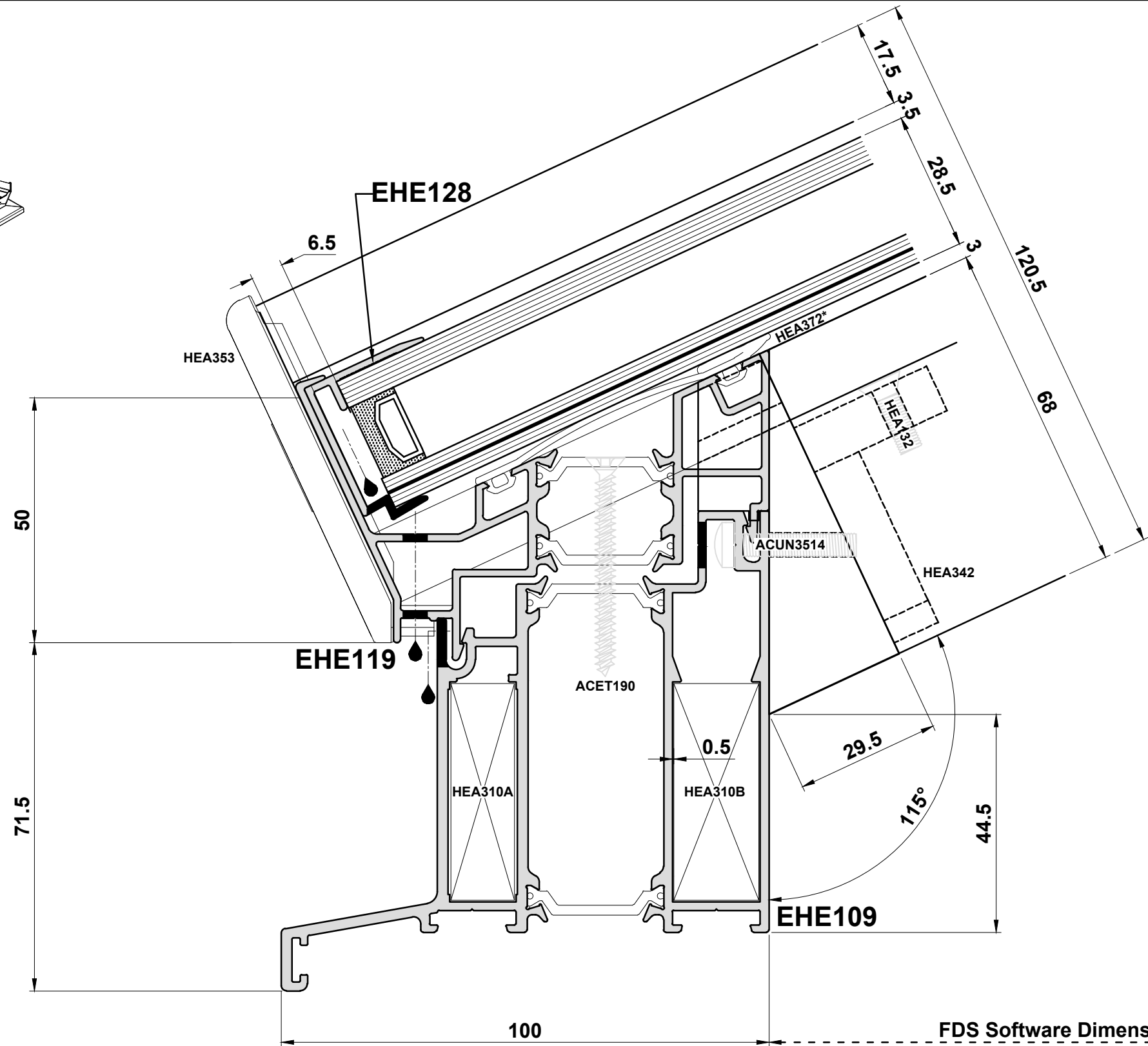
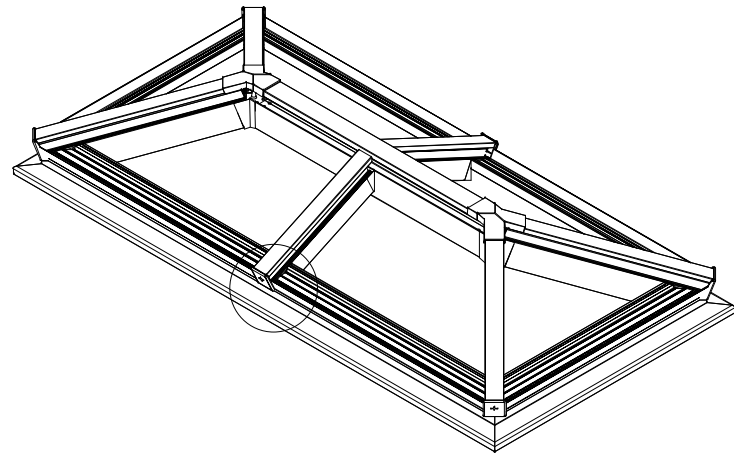


*ACMC635 may be used in both channels as an alternative



Do Not Scale From This Drawing

Detail 1B: Eaves

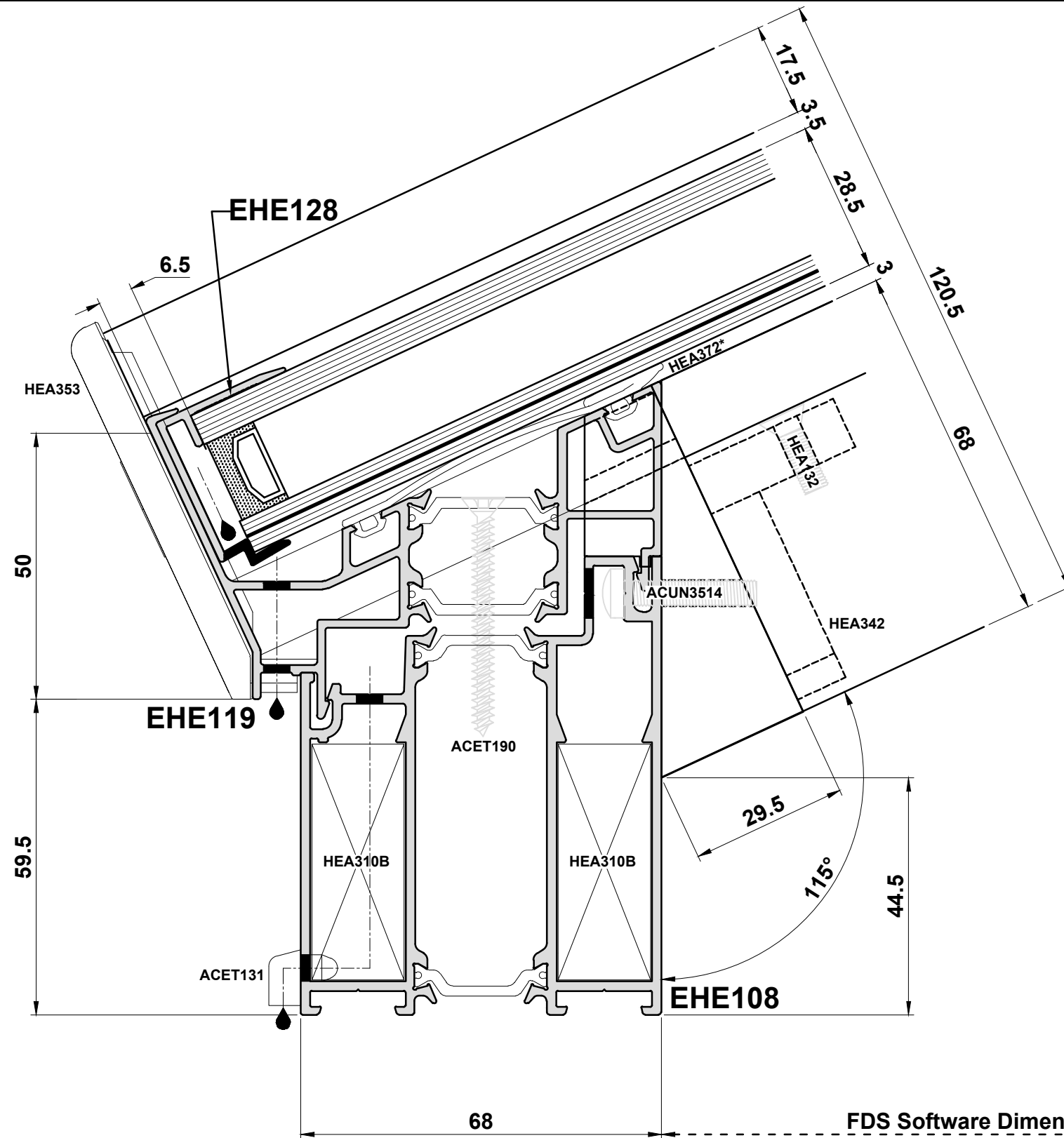
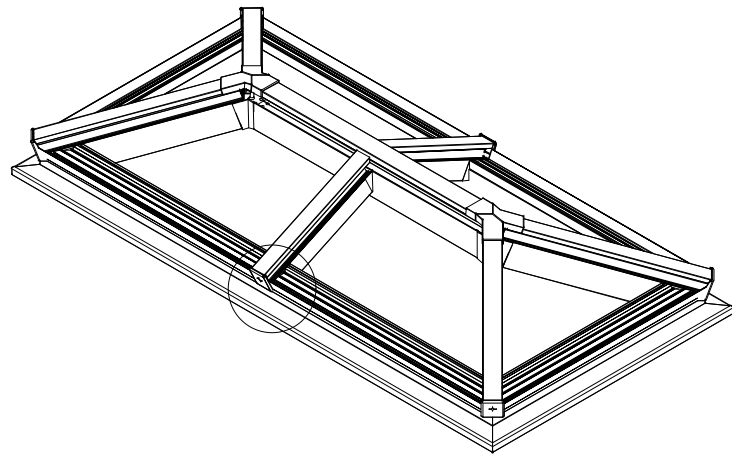


*ACMC635 may be used in both channels as an alternative



Do Not Scale From This Drawing

Detail 1C: Eaves

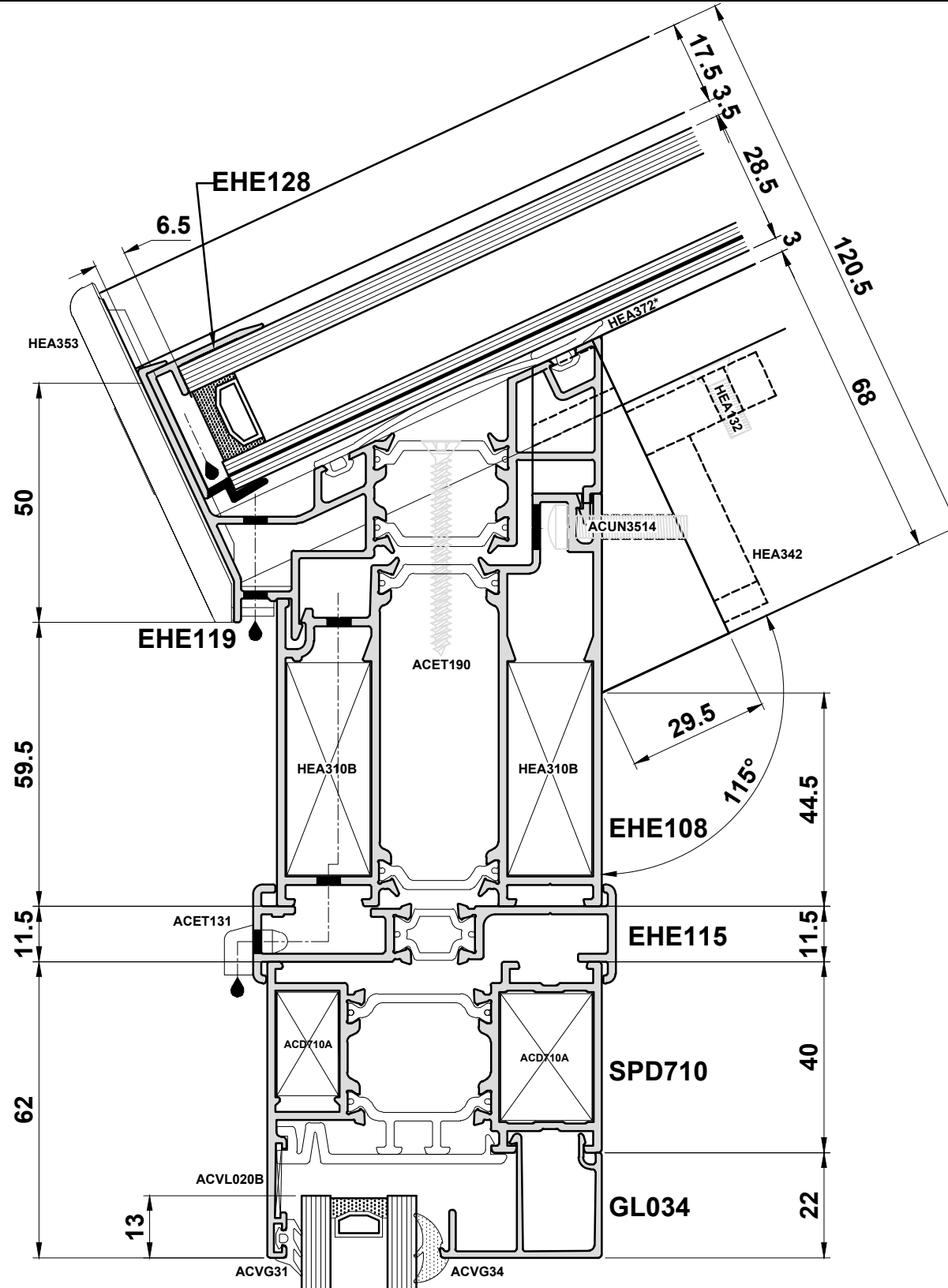
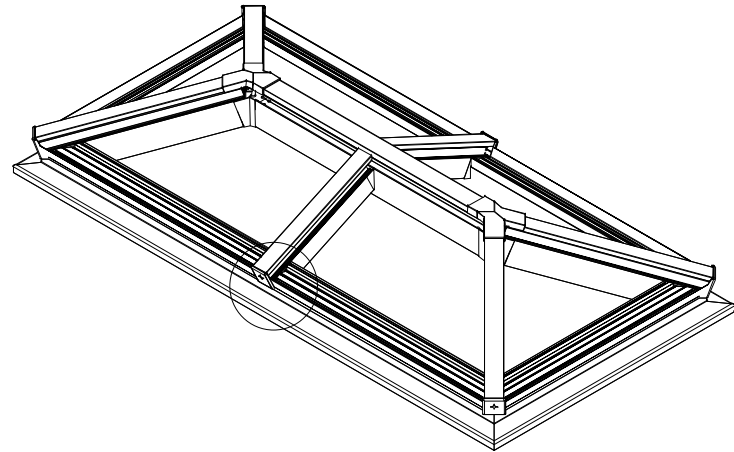


*ACMC635 may be used in both channels as an alternative



Do Not Scale From This Drawing

Detail 1D: Eaves

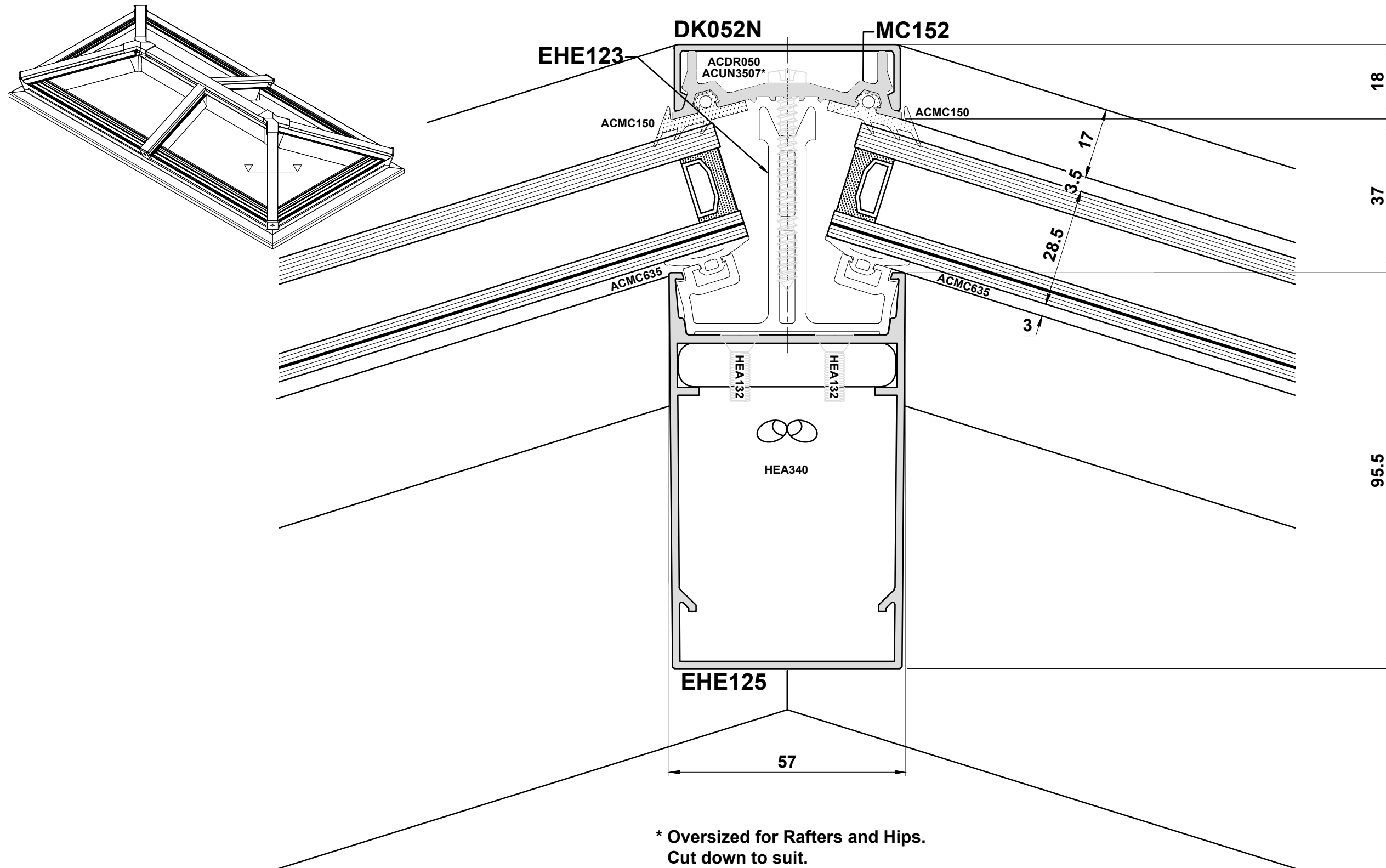


*ACMC635 may be used in both channels as an alternative



Do Not Scale From This Drawing

Detail 3: Hip



Do Not Scale From This Drawing

Section D

Statics

General Size Limitations are shown on Page A03.

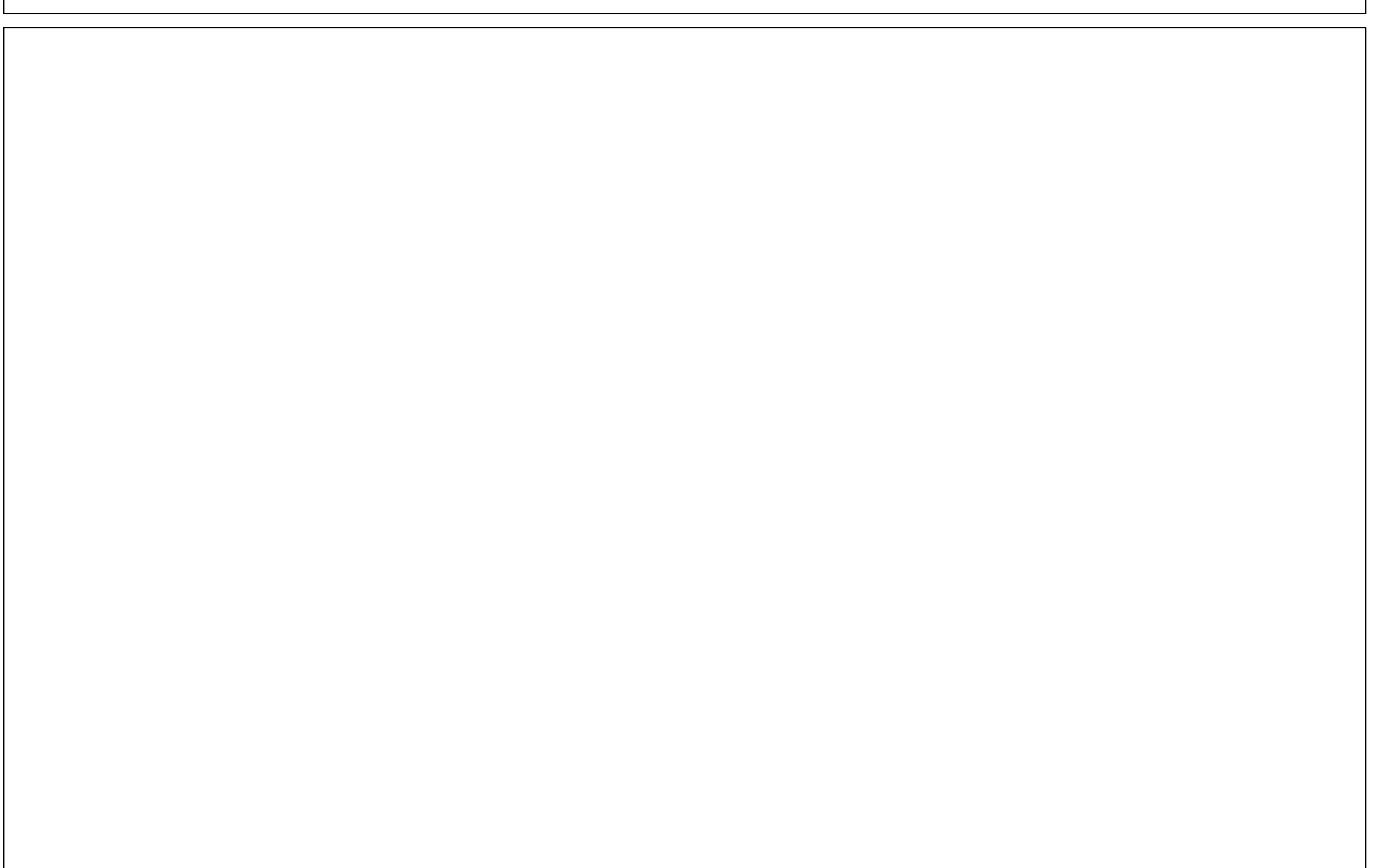
**For Wind Loading Limitations, Please Contact
The Technical Department - T: 01934 833100**

Section E

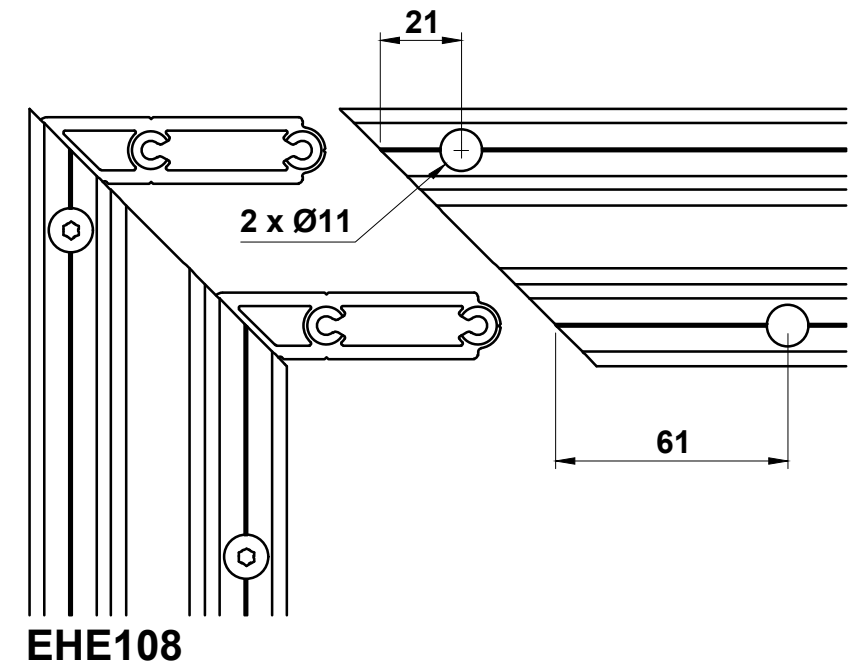
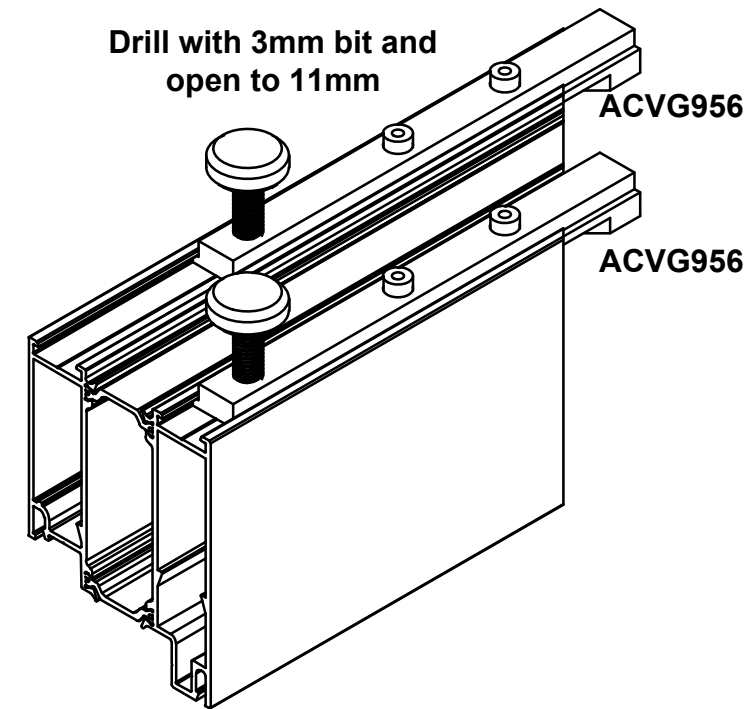
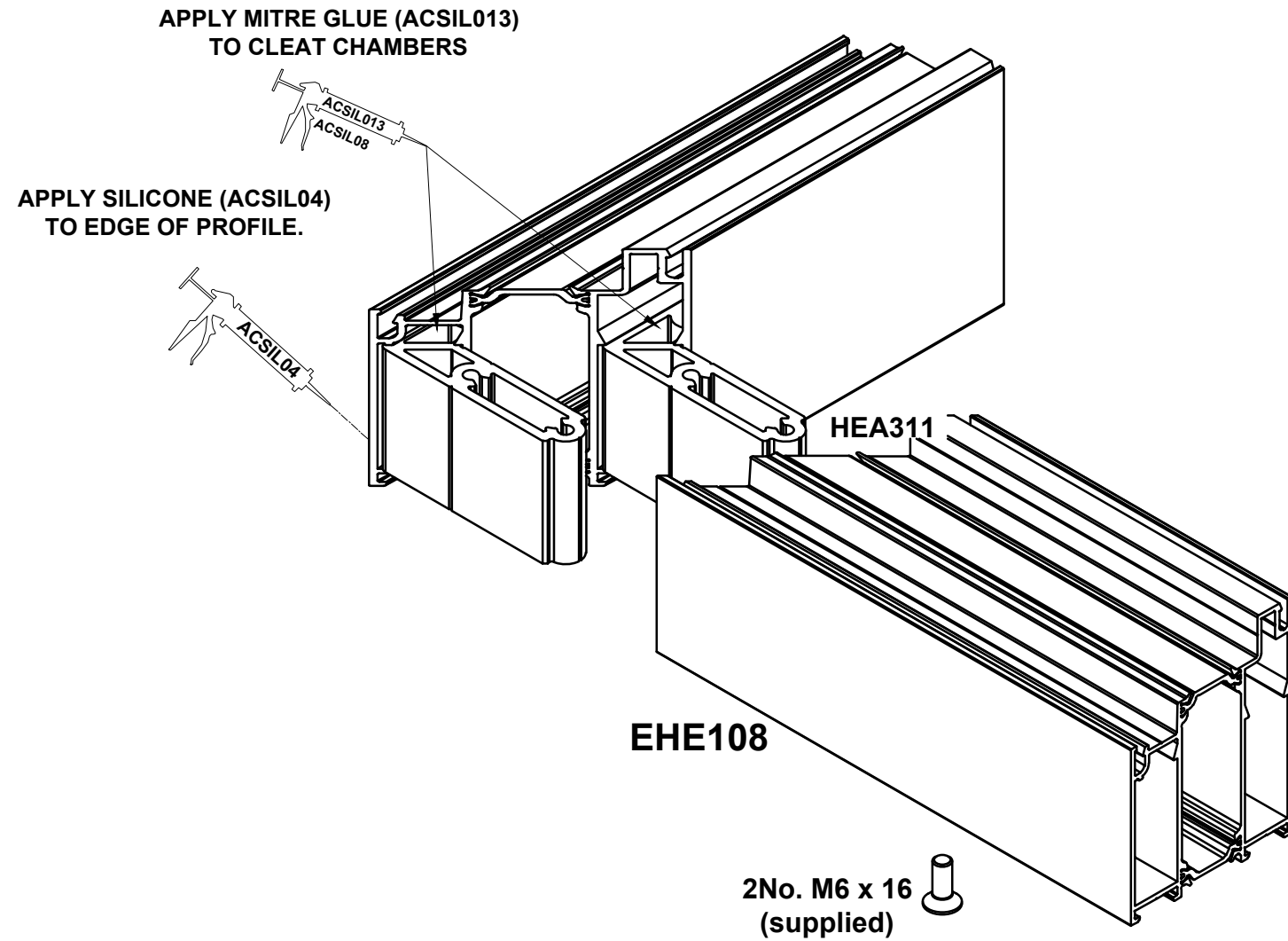


Construction Drawings

Corner Details.....	E03 - E05
HEA905 Punch Tool.....	E06
Drainage Details.....	E07
Hip to Eaves Assembly.....	E08
HEA351 Hip End Cap.....	E09
Ridge & Hip Assembly.....	E10
Crown Assembly.....	E11
Rafter to Ridge Assembly.....	E12
Rafter to Eaves Assembly.....	E13
HEA353 Rafter End Cap.....	E14
EHE128 Glass End Cover.....	E15
Typical Installation Details.....	E16 - E17
Tie Bar Details.....	E18

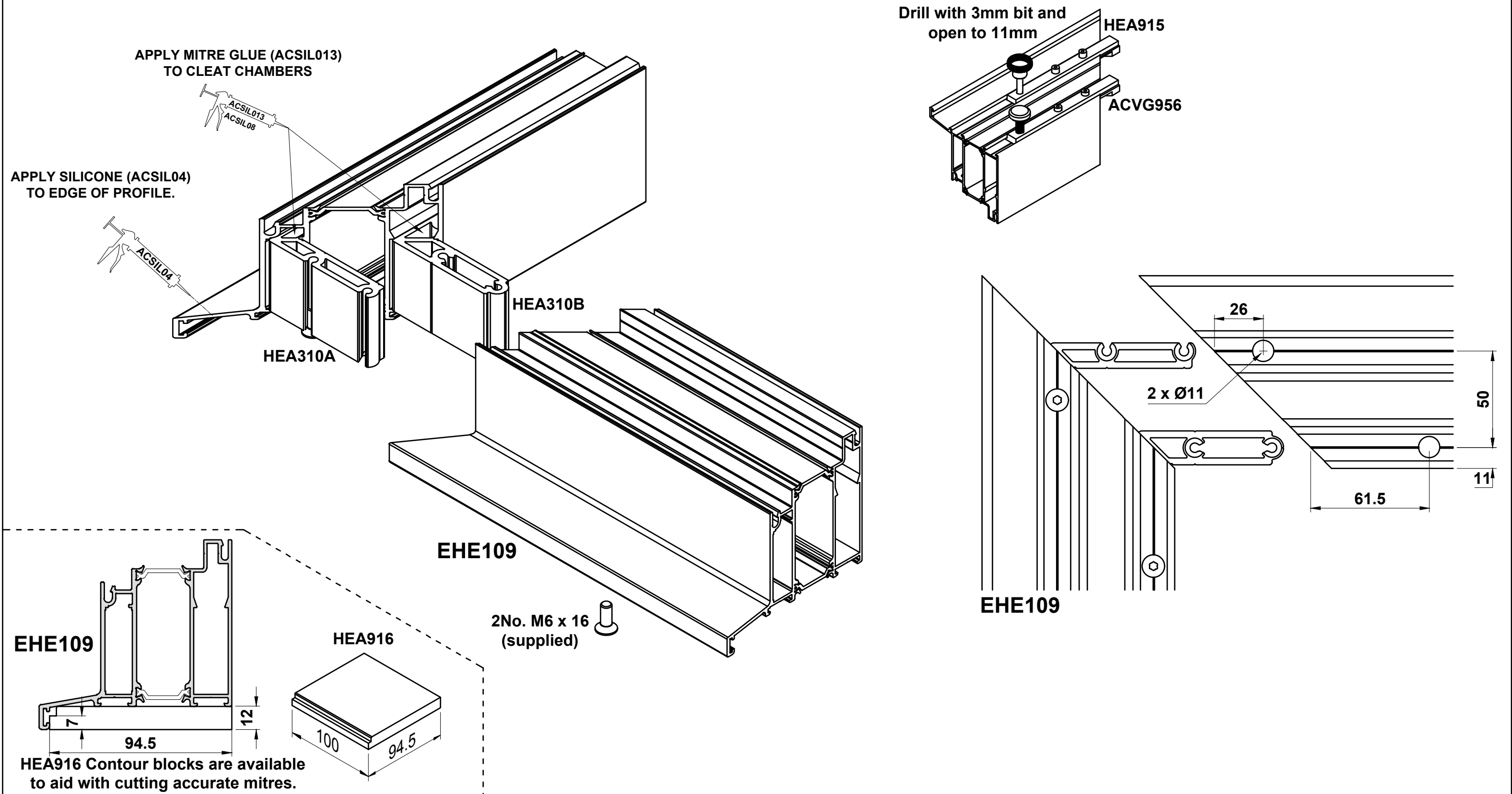


EHE108 Corner Joint Details



Do Not Scale From This Drawing

EHE109 Corner Joint Details



Do Not Scale From This Drawing

EHE110 Corner Joint Details

ACVG956 and HEA915 can be used instead of HEA903

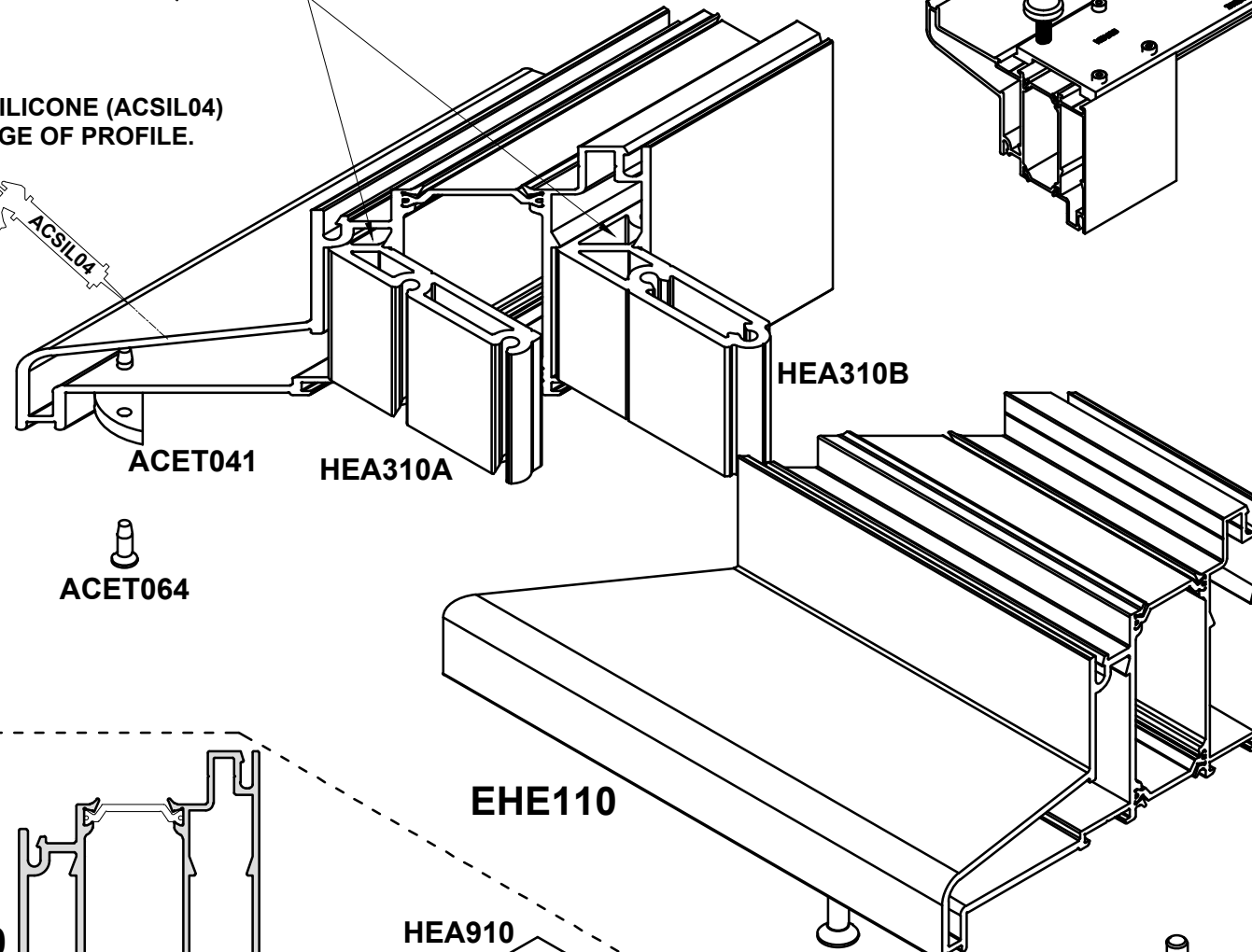
Drill with 3mm bit and open to 11mm

HEA903

APPLY MITRE GLUE (ACSIL013) TO CLEAT CHAMBERS



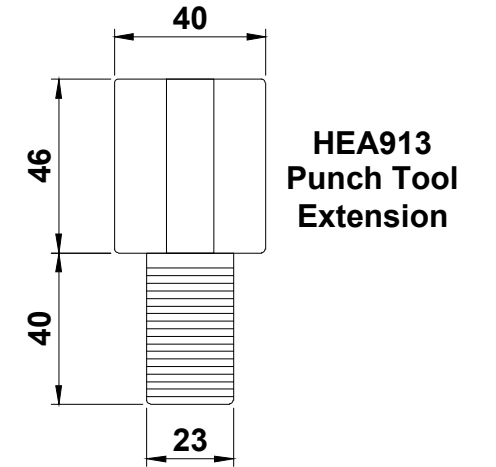
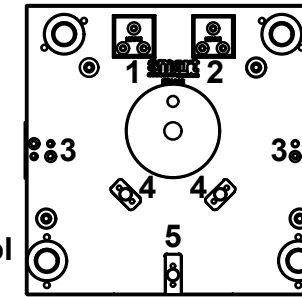
APPLY SILICONE (ACSIL04) TO EDGE OF PROFILE.



EHE110

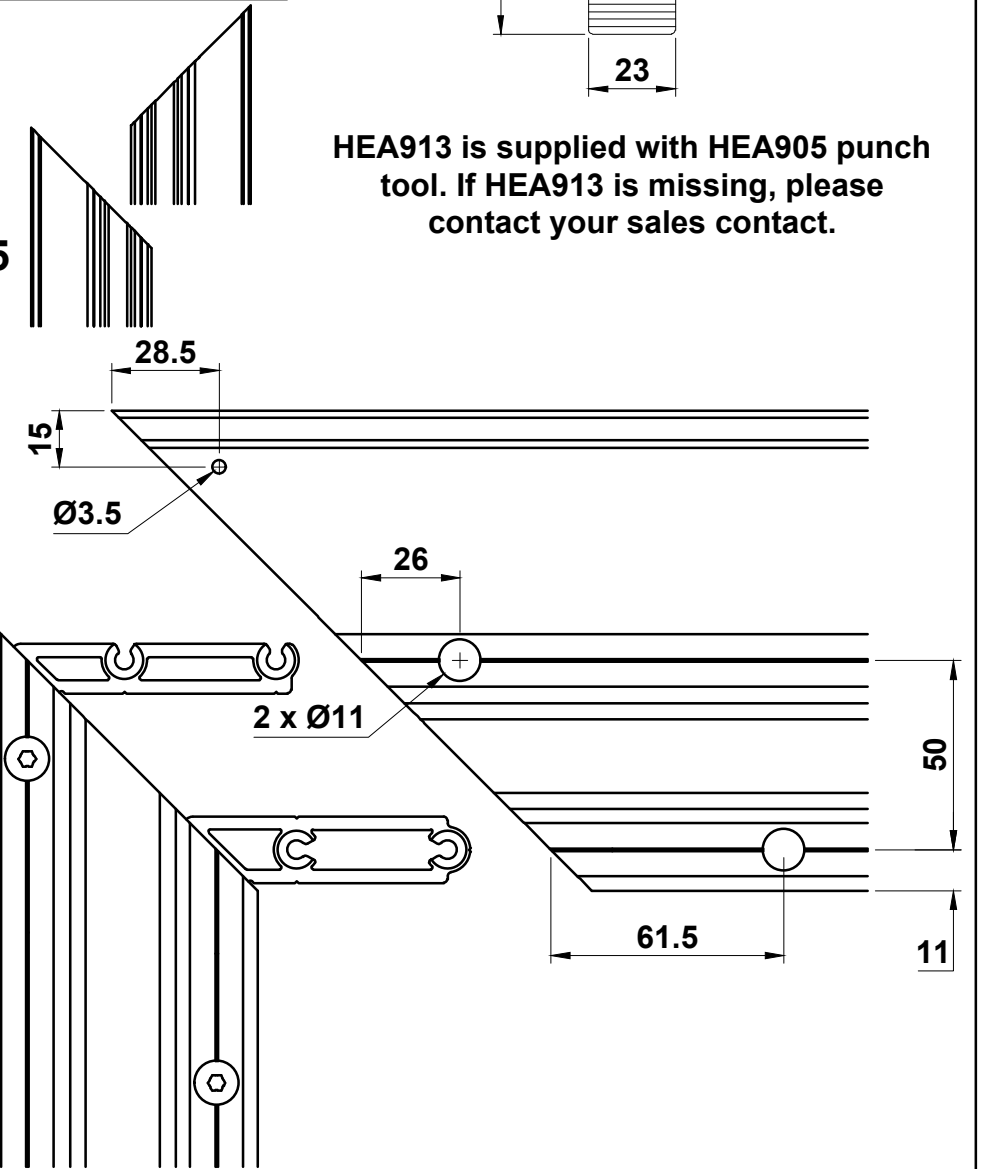
2No. M6 x 16 (supplied)

HEA905 Punch Tool

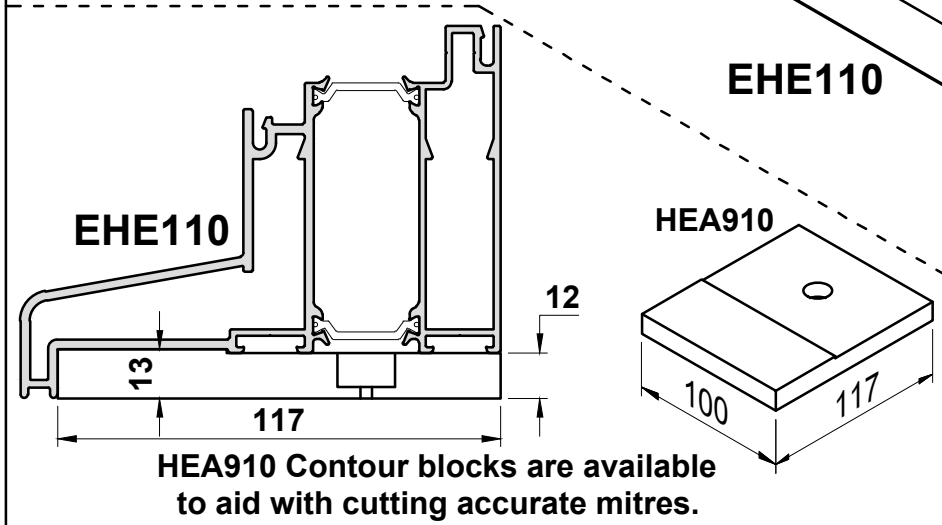


HEA913 is supplied with HEA905 punch tool. If HEA913 is missing, please contact your sales contact.

EHE110 Station 4 & 5



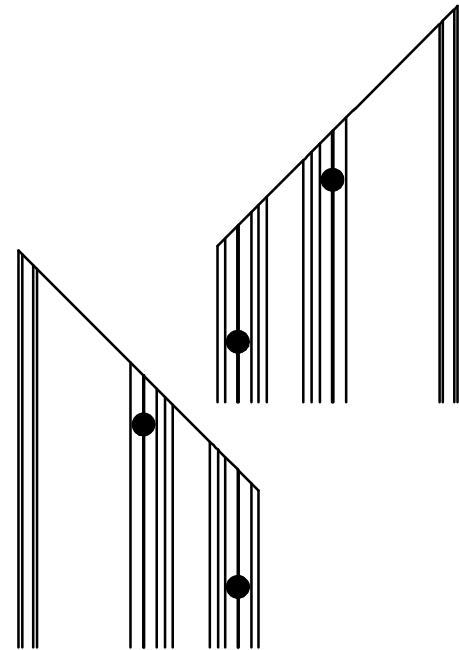
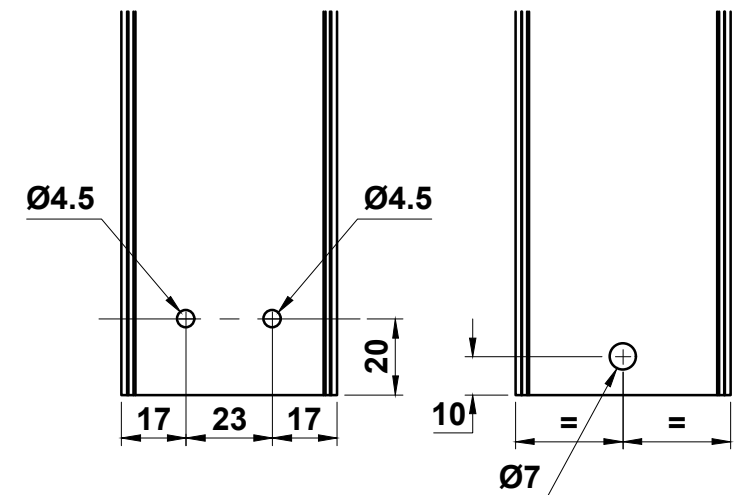
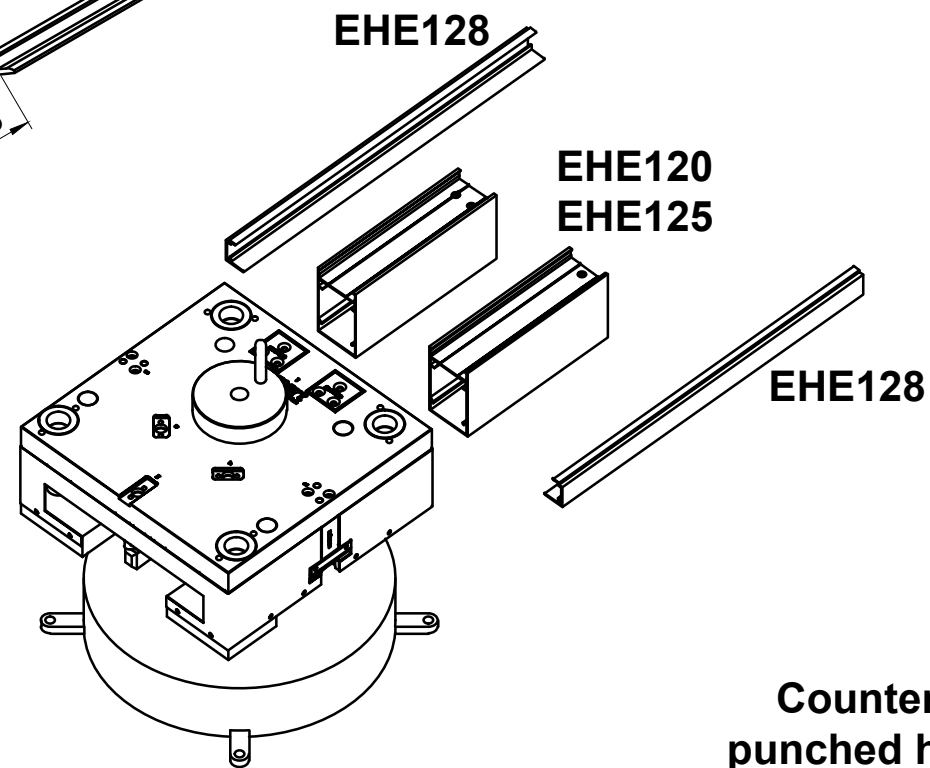
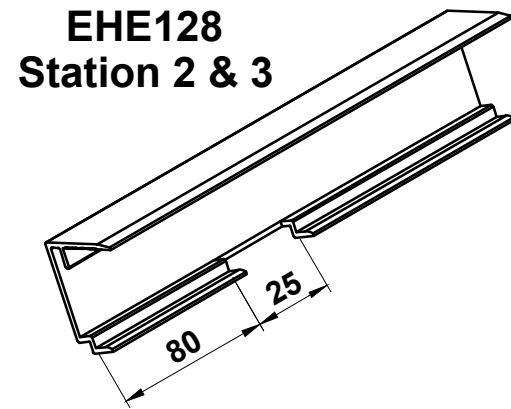
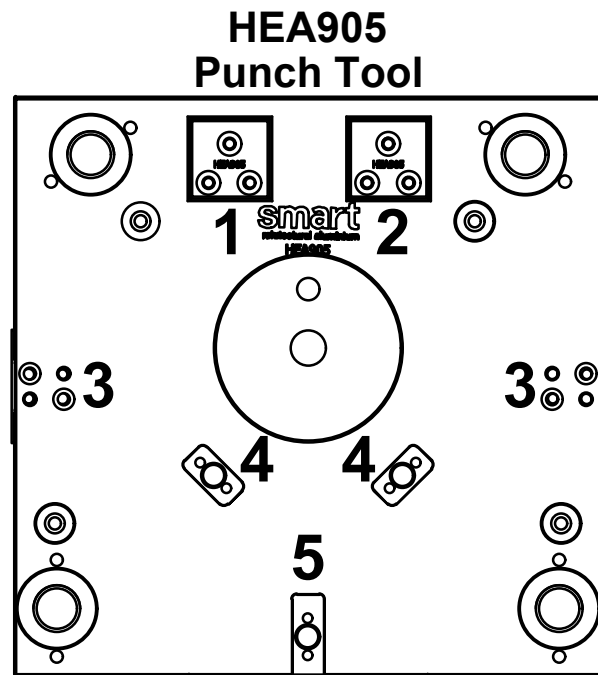
EHE110



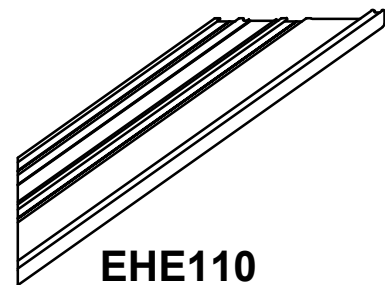
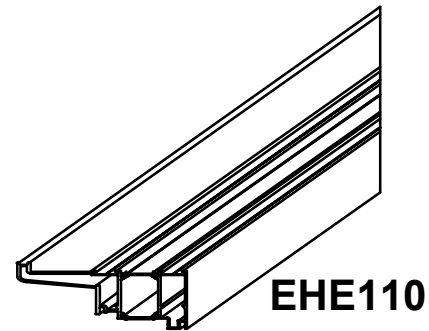
HEA910 Contour blocks are available to aid with cutting accurate mitres.

Do Not Scale From This Drawing

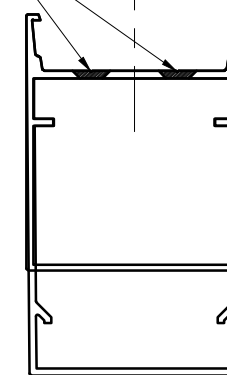
HEA905 Punch Tool



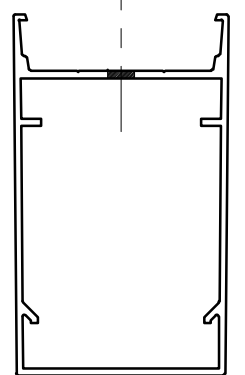
EHE110
Station 4 & 5



Countersink
punched hole for
M5 screw



EHE120
EHE125
Station 1

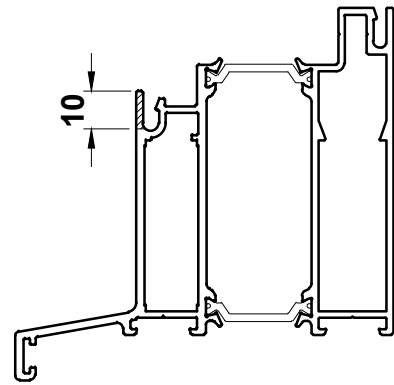


EHE125
Station 2

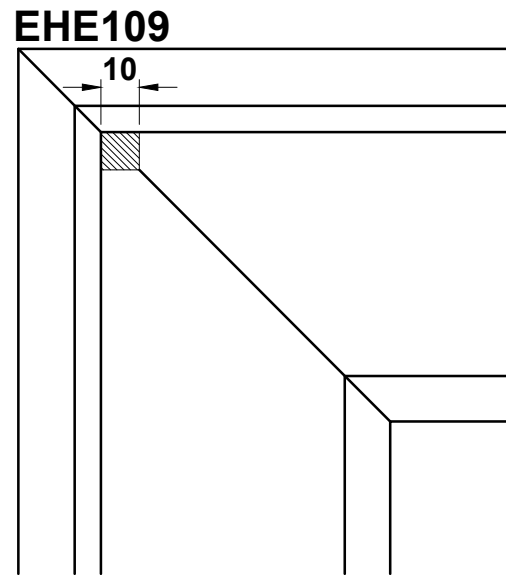
Please note: EHE108 & EHE109 are not compatible with HEA905.

Do Not Scale From This Drawing

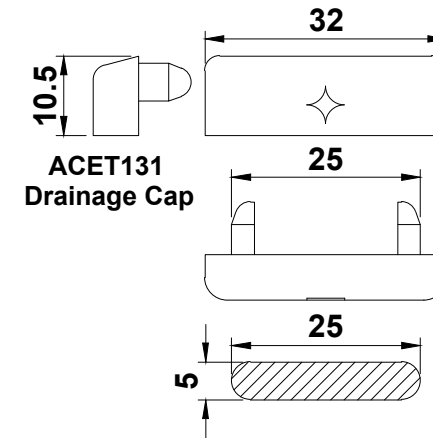
Drainage Details



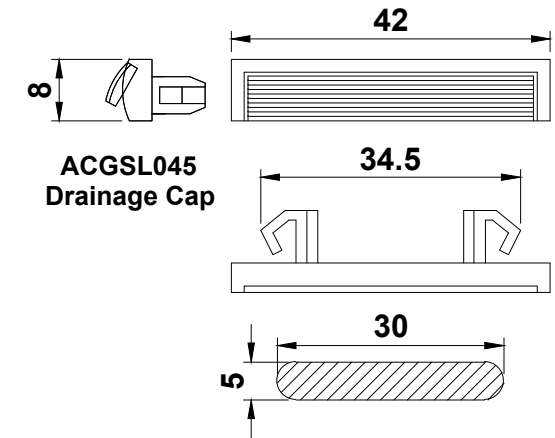
EHE109



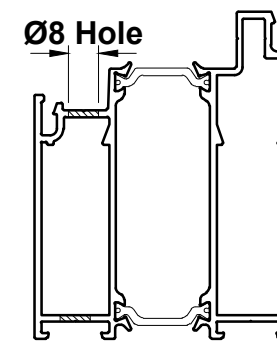
Please note: To drain EHE109, a notch is to be made at each mitred corner under each rafter.



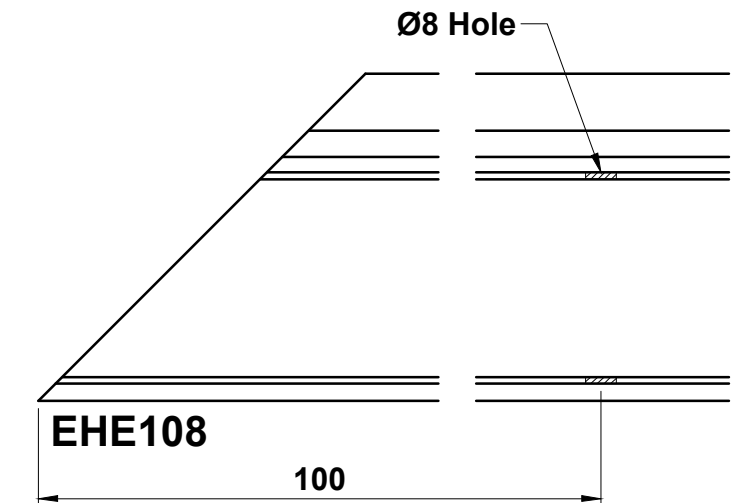
ACET131
Drainage Cap



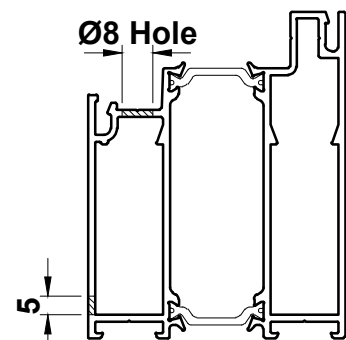
ACGSL045
Drainage Cap



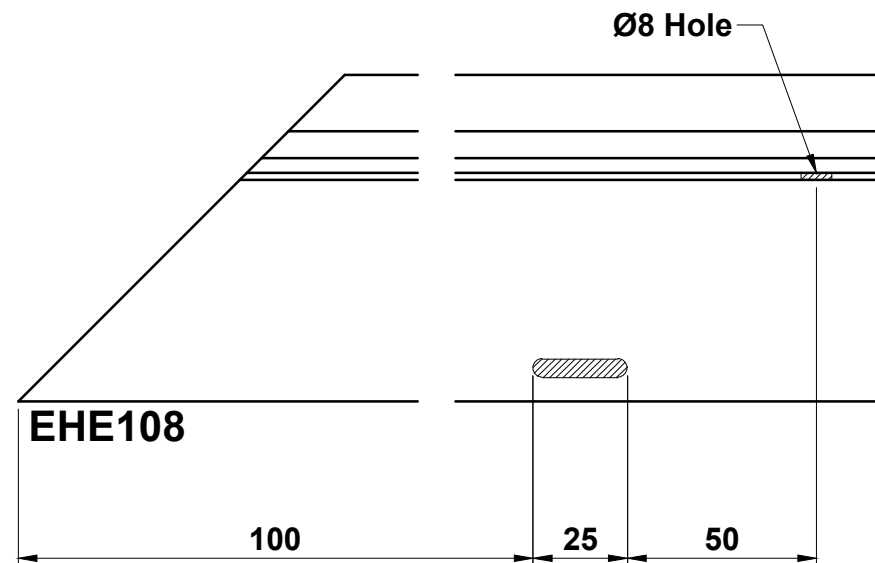
EHE108



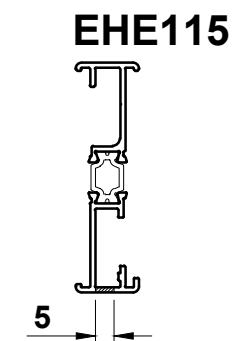
EHE108



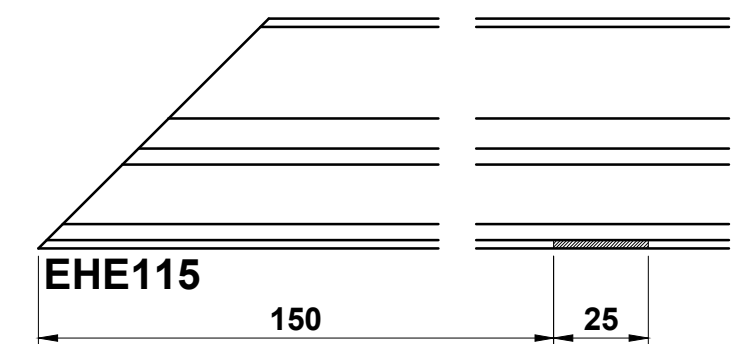
EHE108



EHE108



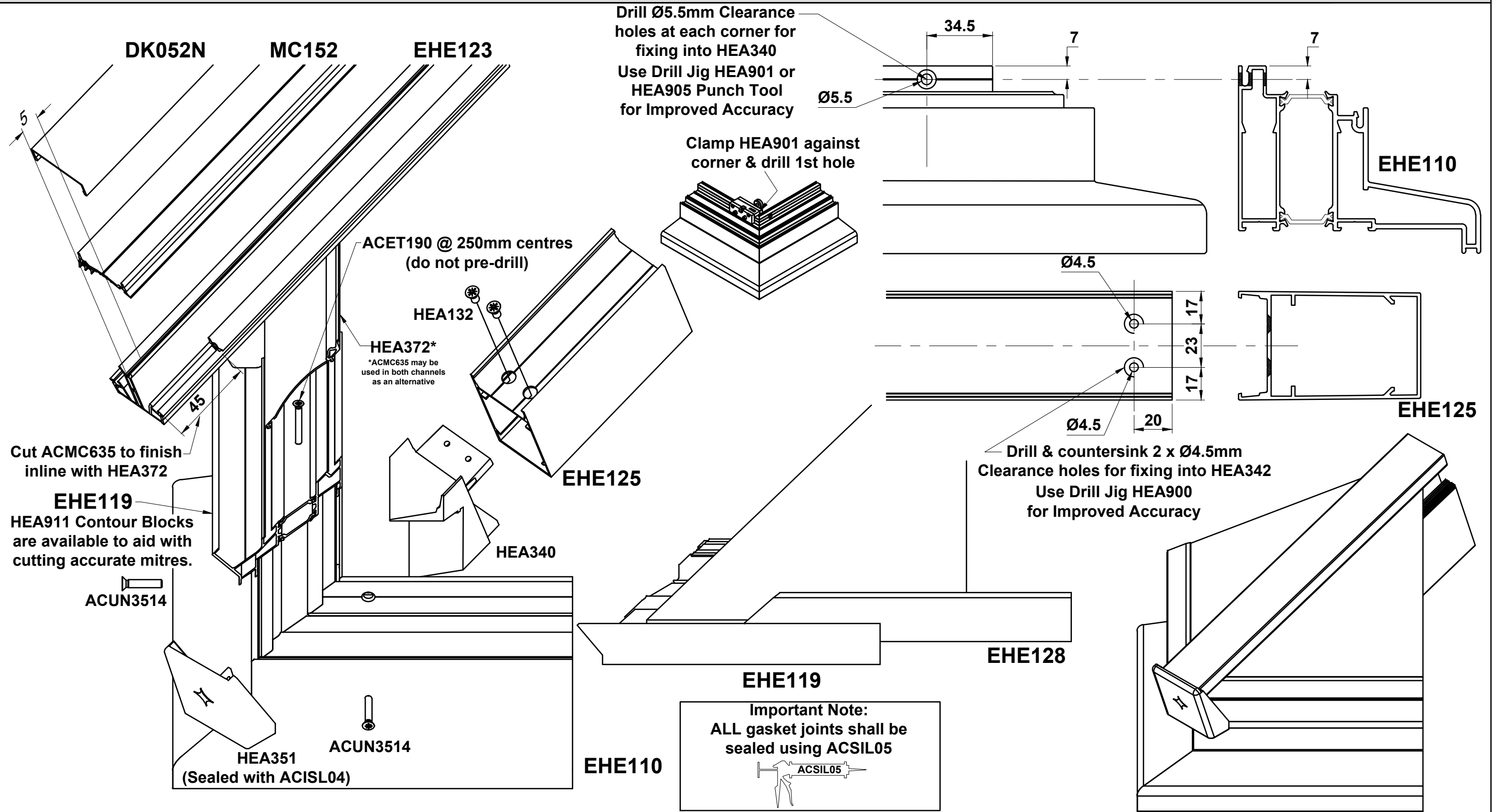
EHE115



EHE115

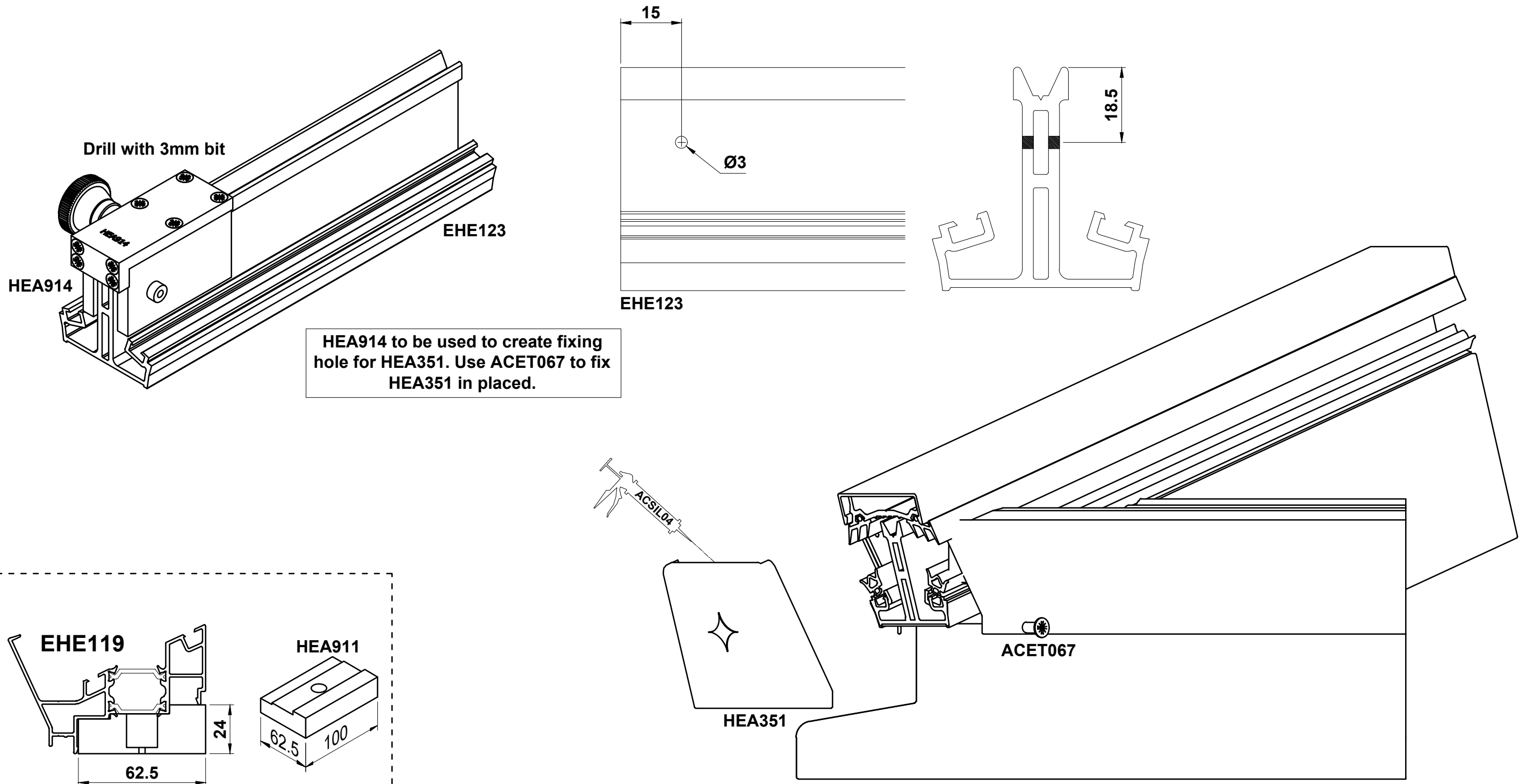
Do Not Scale From This Drawing

Hip to Eaves Assembly



Do Not Scale From This Drawing

HEA351 Hip End Cap

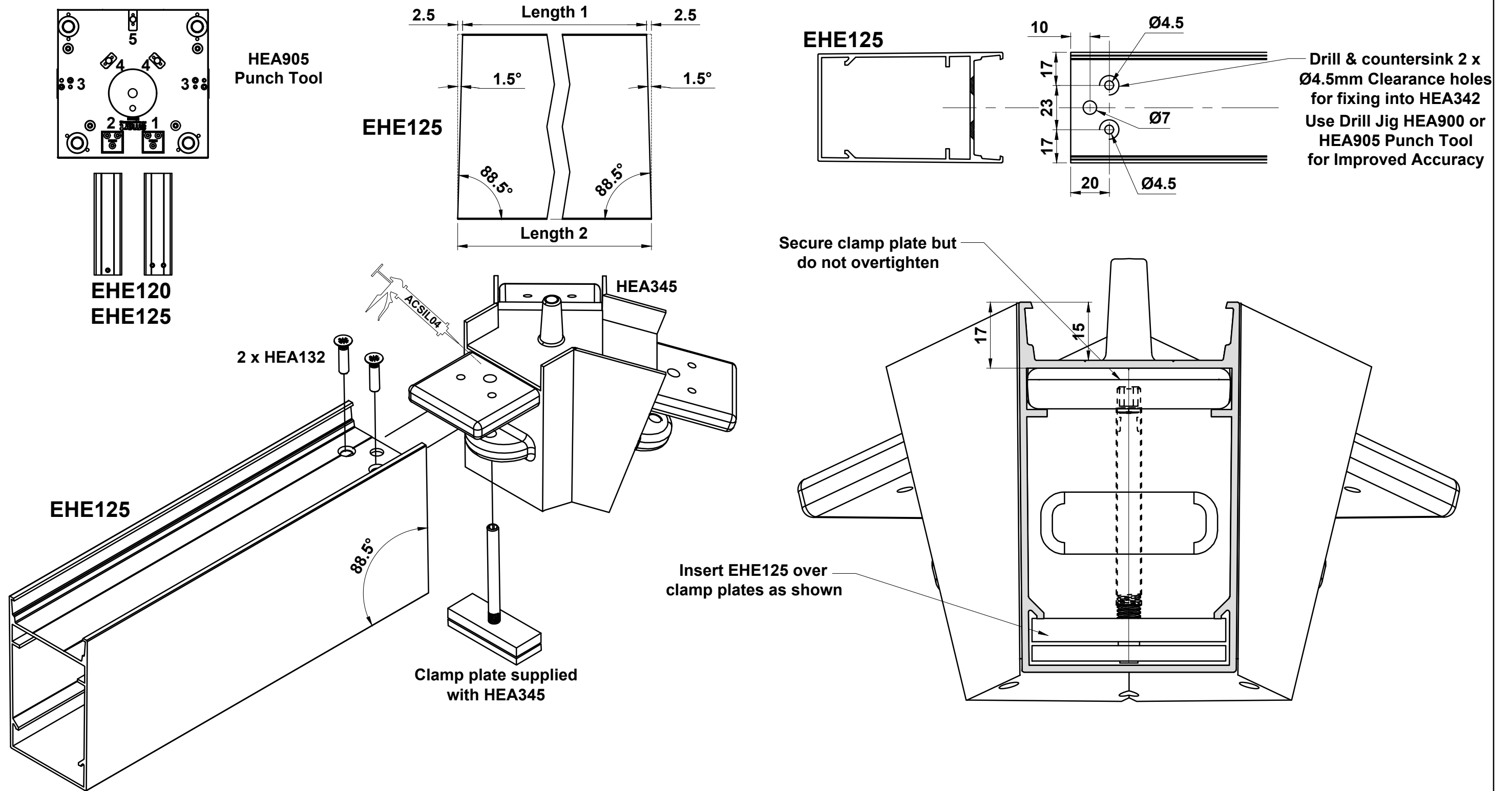


HEA914 to be used to create fixing hole for HEA351. Use ACET067 to fix HEA351 in placed.

EHE119
HEA911
24
62.5
62.5
100

HEA911 Contour blocks are available to aid with cutting accurate mitres.

Ridge & Hip Assembly



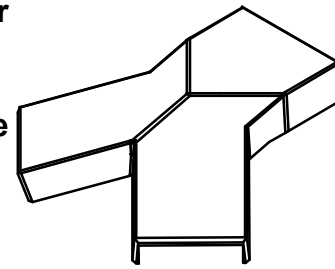
Do Not Scale From This Drawing

Crown Assembly

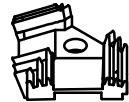
Important Note:
ALL crown joints shall be sealed using ACSIL04



Cover Cap
HEA345 crown Cover cap is sealed & secured over the cappings from inside after glazing



HEA370 Rubber Seal



EHE170

EHE122
(ACMC635 Gasket)

EHE160
(ACMC019 Gasket)

EHE125

DK052N & MC152
(ACMC150 Gasket)

EHE123
(ACMC635 Gasket)

EHE125

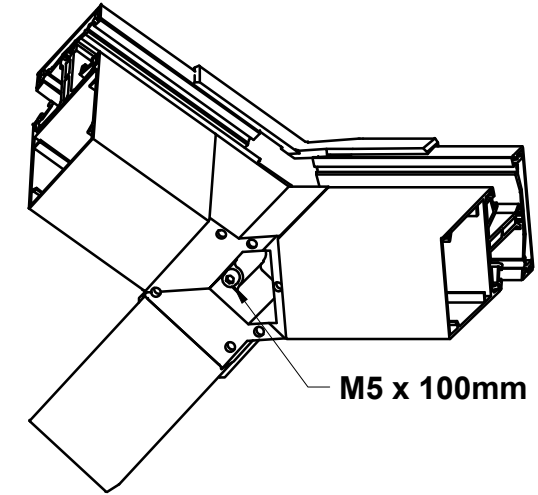
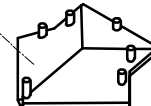
Important Note:
ALL gasket joints shall be sealed using ACSIL05



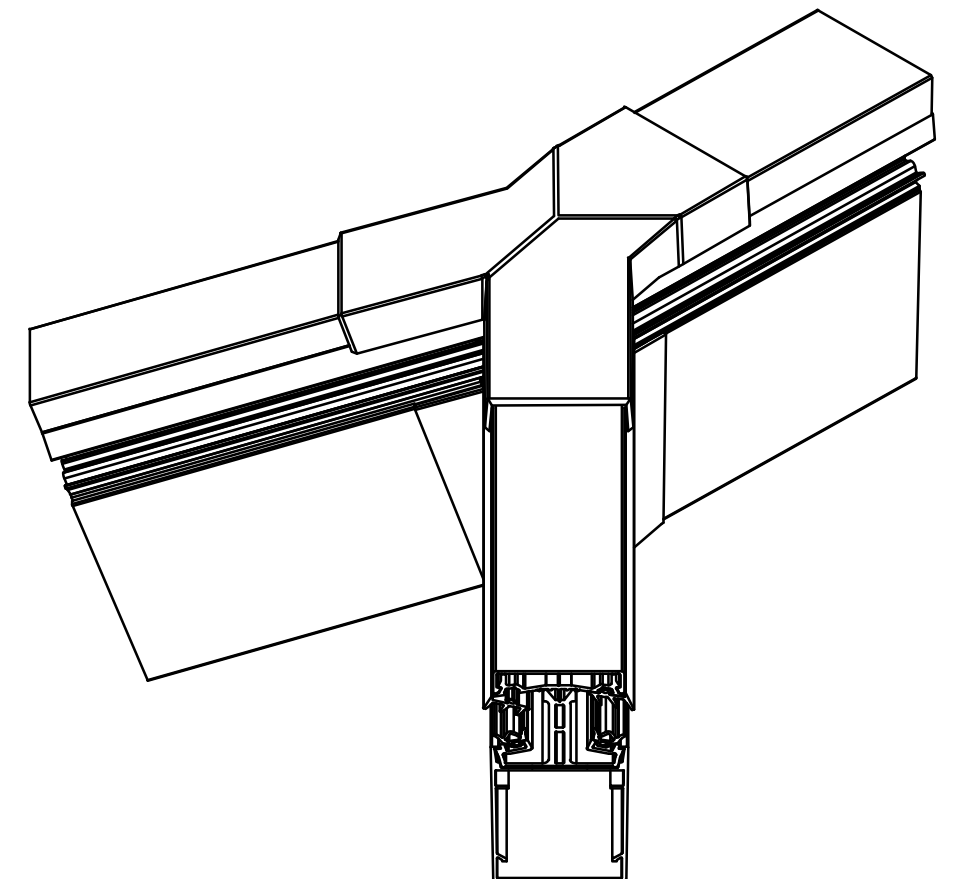
M5 x 100mm Fixing Bolt



Bottom Cover Cap
Bond in place using a thin application of ACSIL04

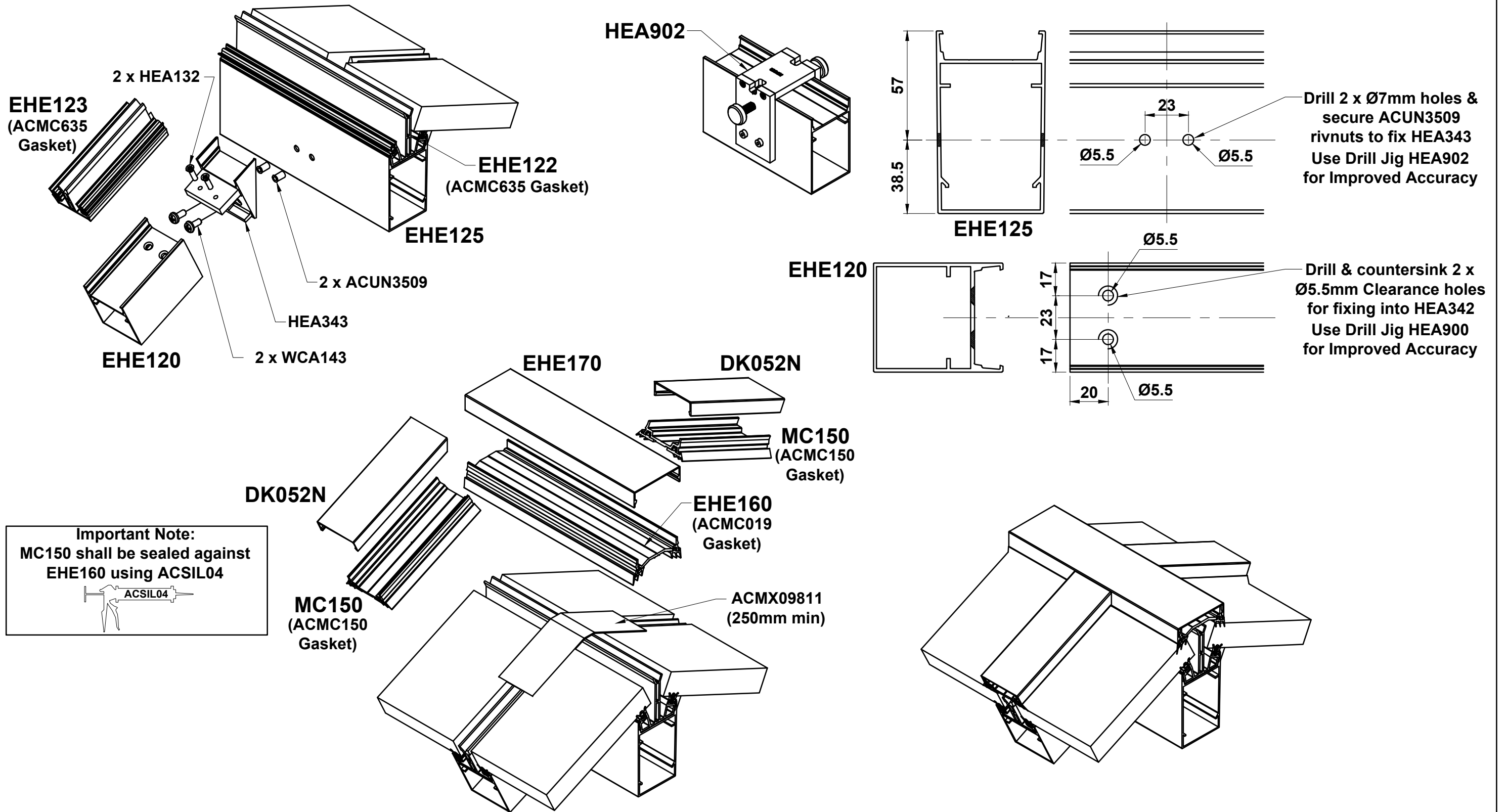


M5 x 100mm Fixing Bolt



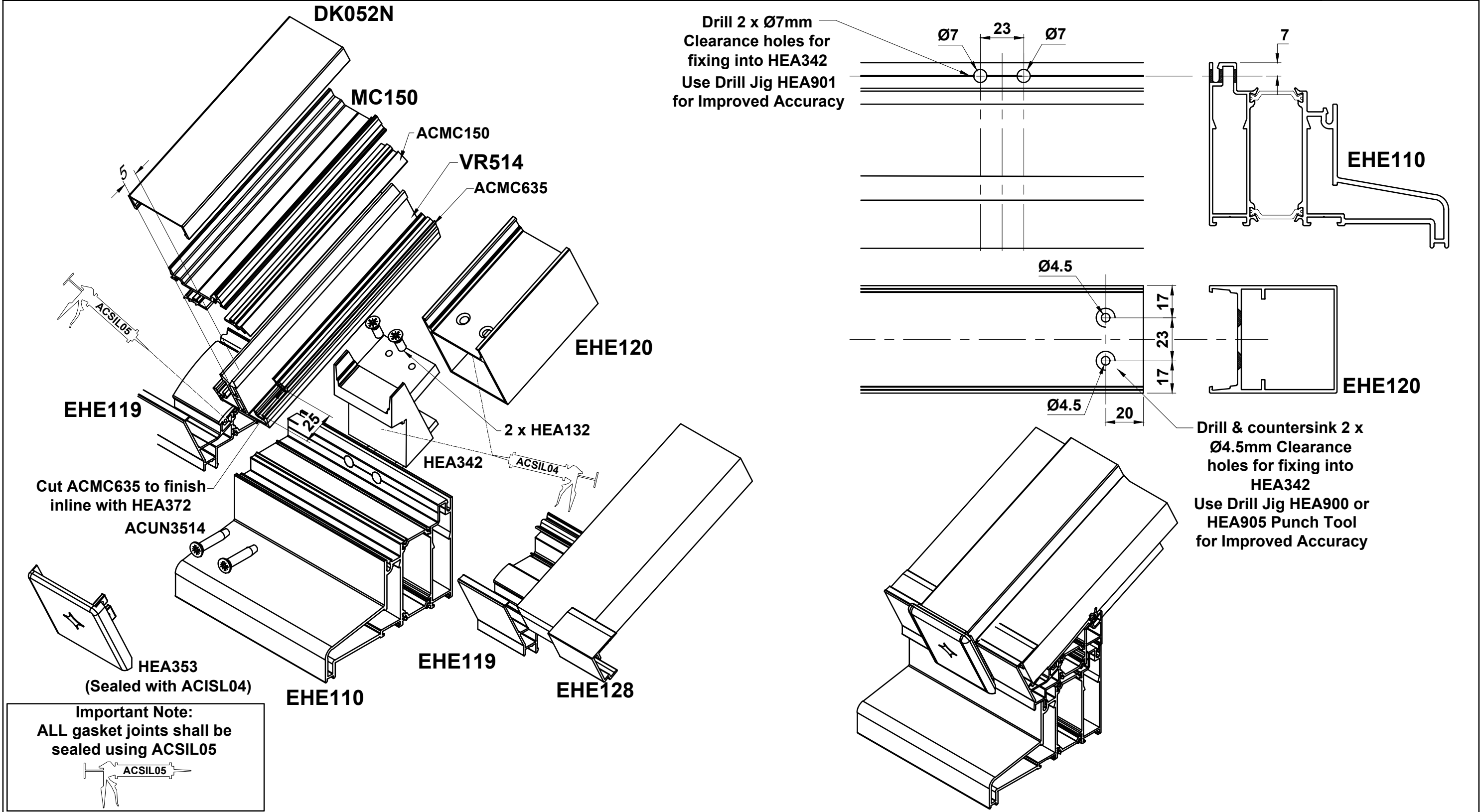
Do Not Scale From This Drawing

Rafter to Ridge Assembly



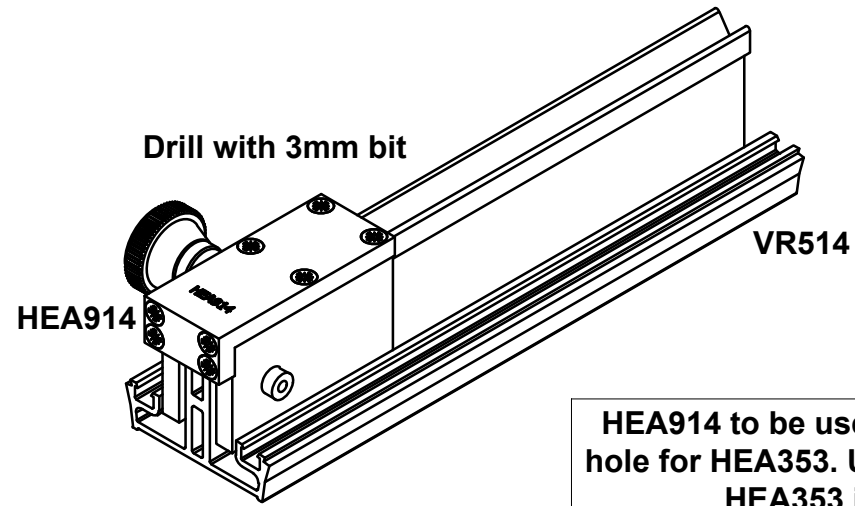
Do Not Scale From This Drawing

Rafter to Eaves Assembly

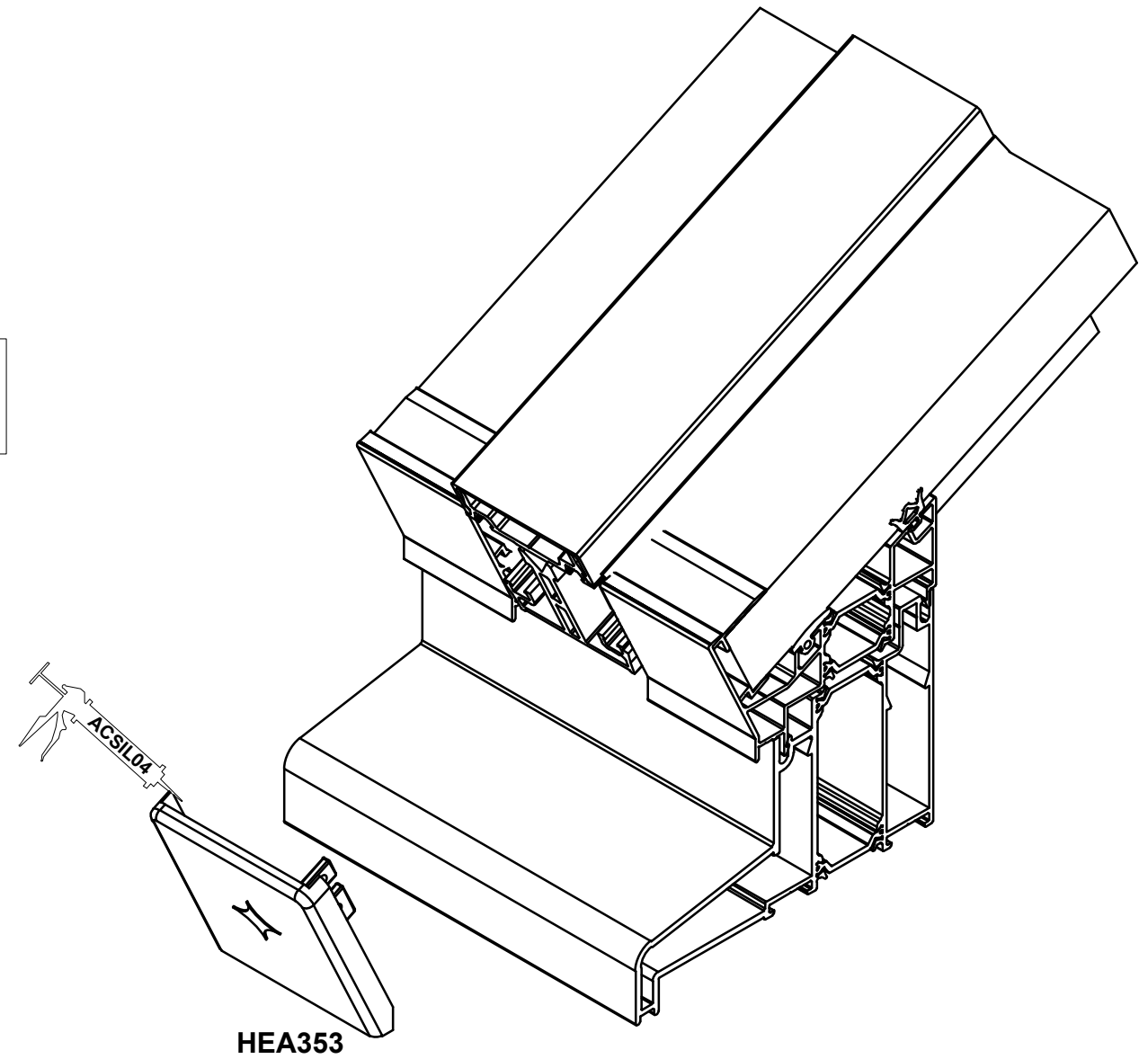
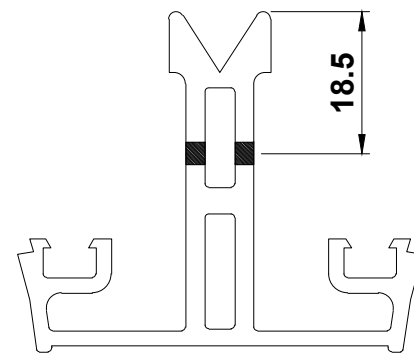
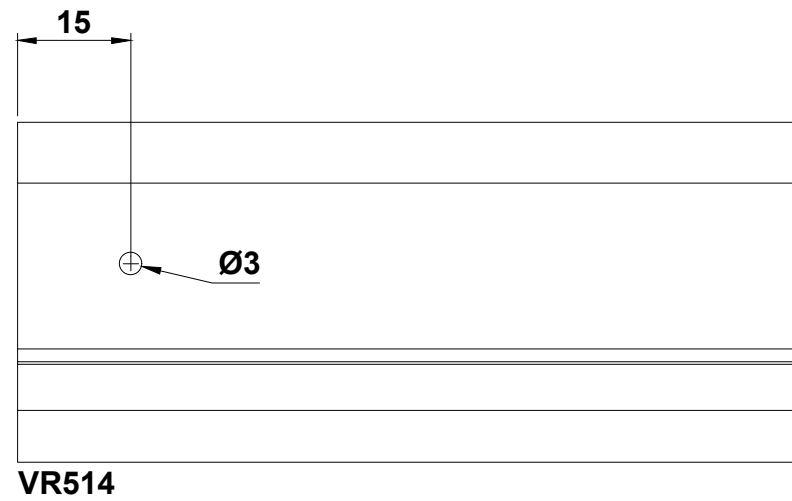


Do Not Scale From This Drawing

HEA353 Rafter End Cap

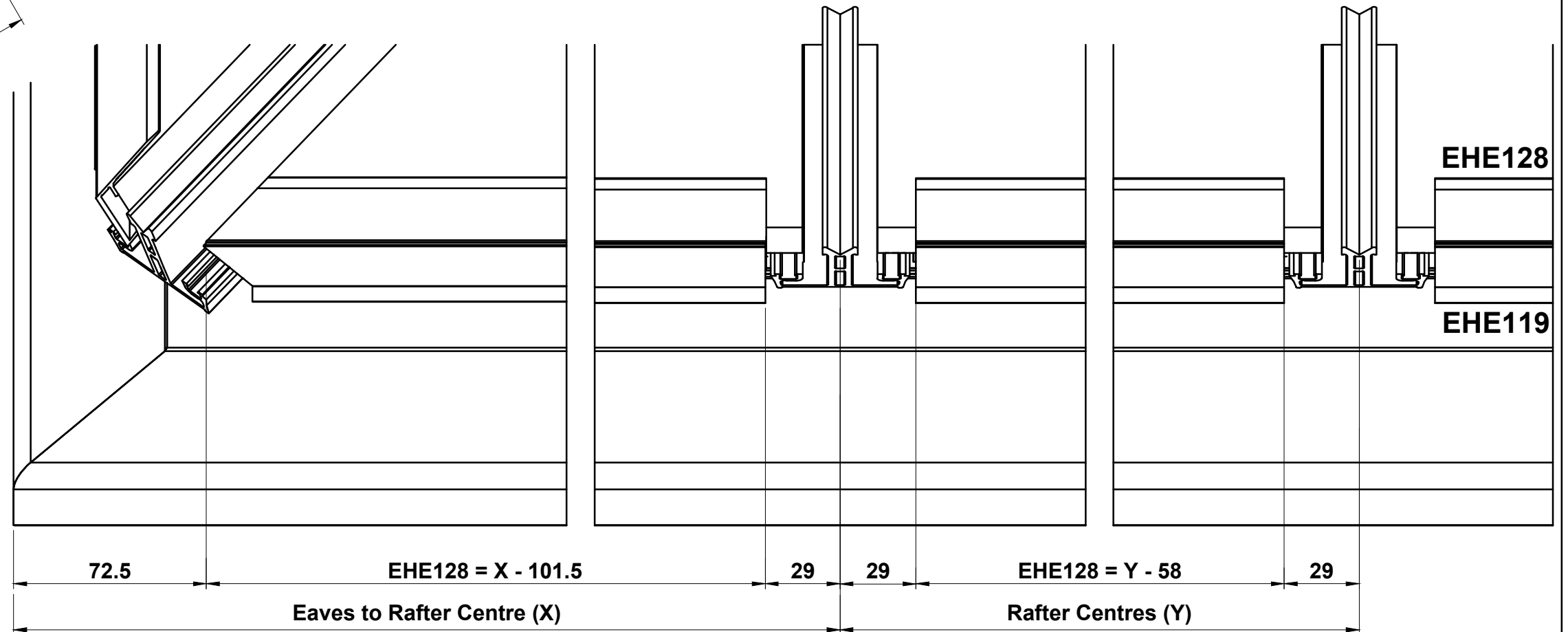
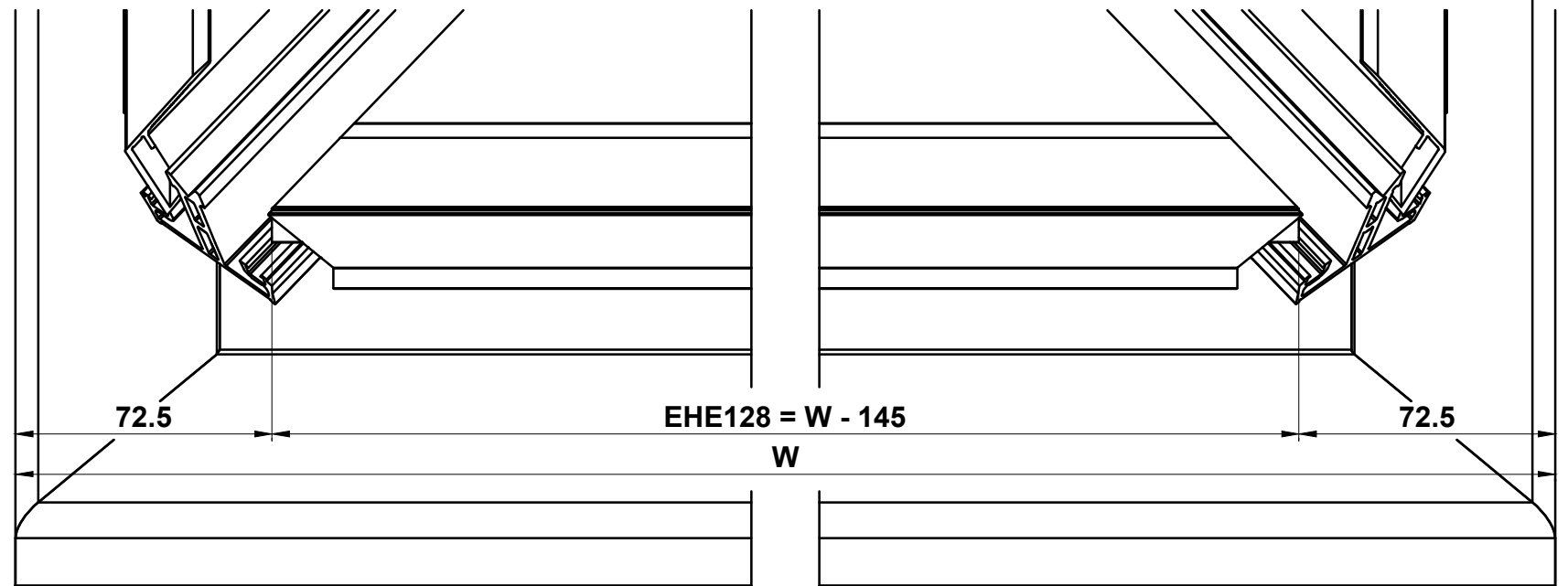
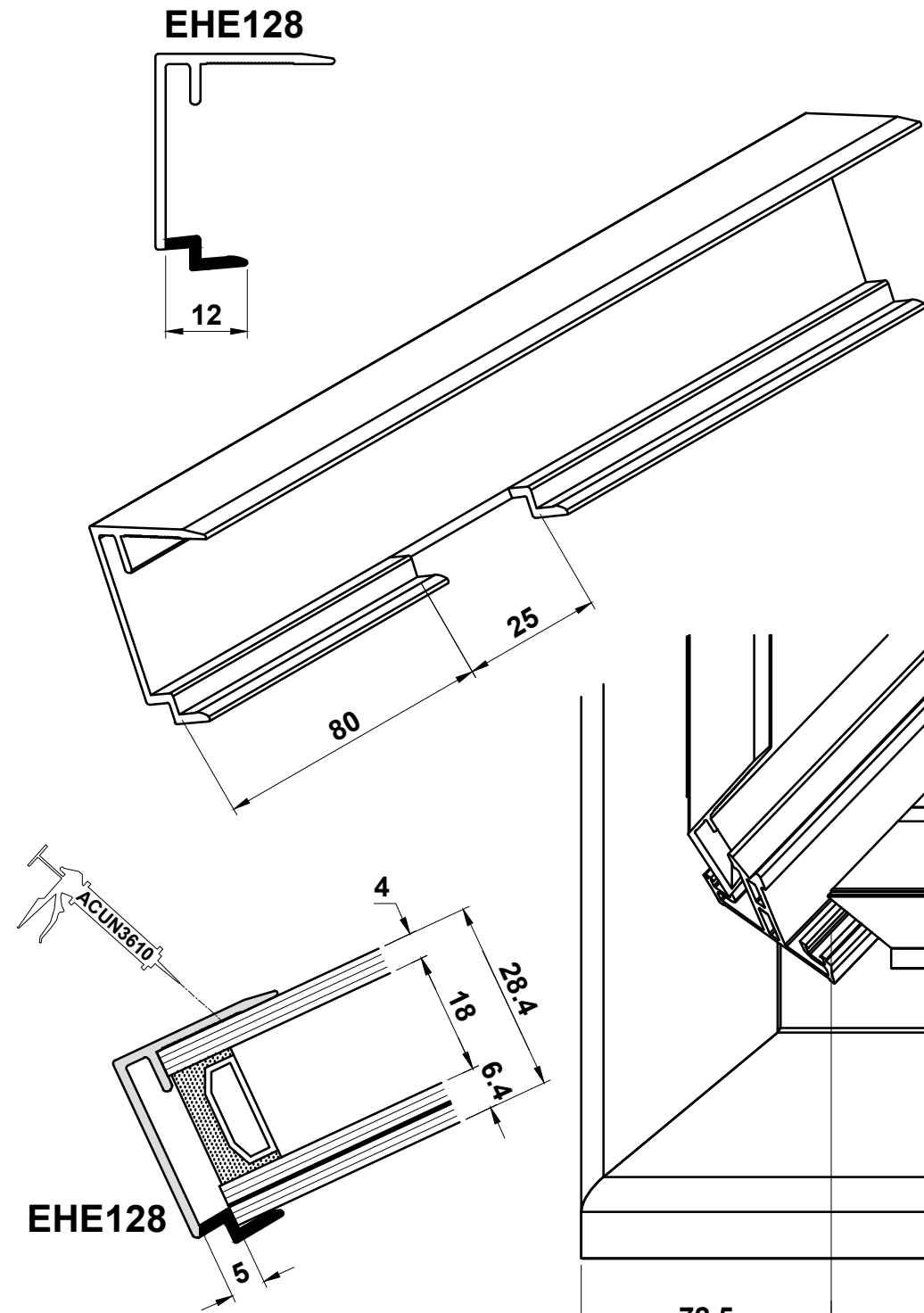


HEA914 to be used to create fixing hole for HEA353. Use ACET067 to fix HEA353 in placed.



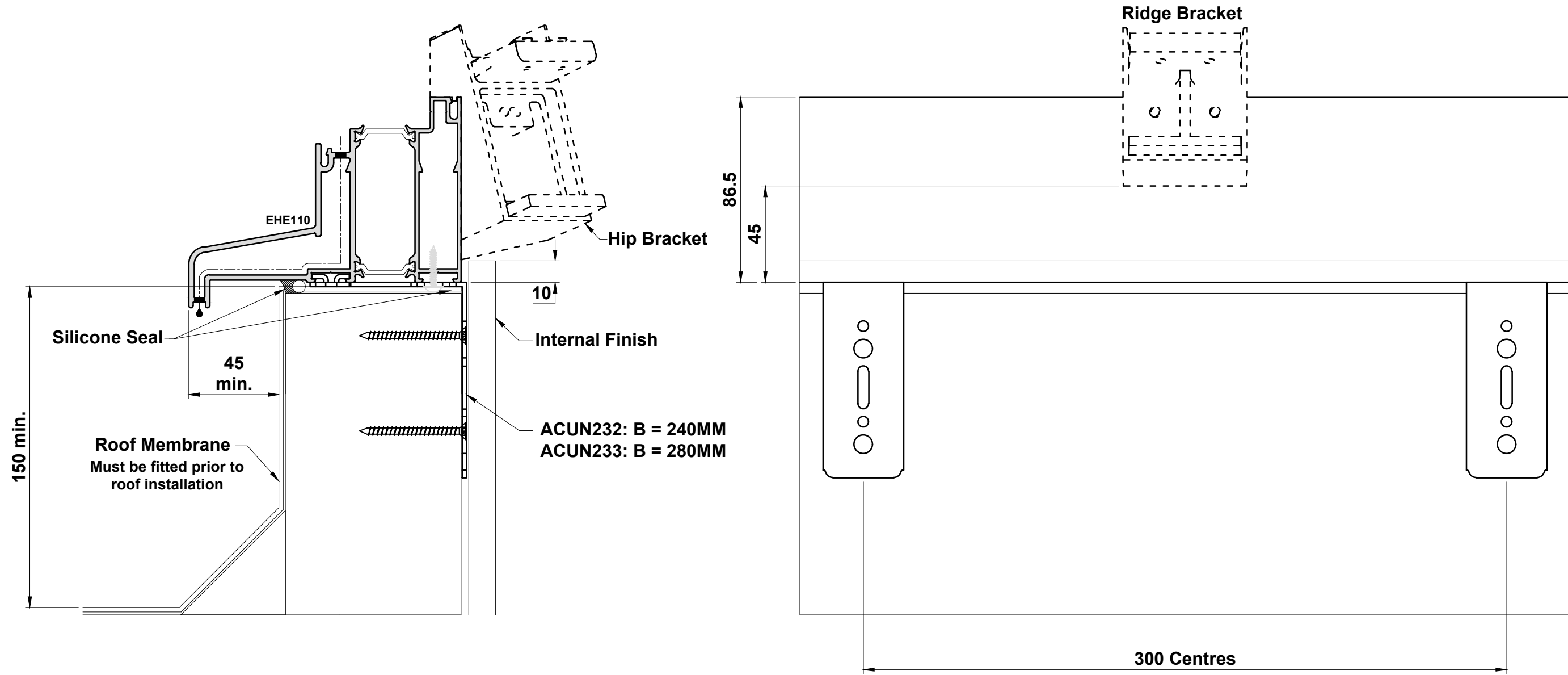
Do Not Scale From This Drawing

EHE128 Drainage & Deductions



Do Not Scale From This Drawing

Typical Installation Detail



Do Not Scale From This Drawing

Installation Process

Installation Method:

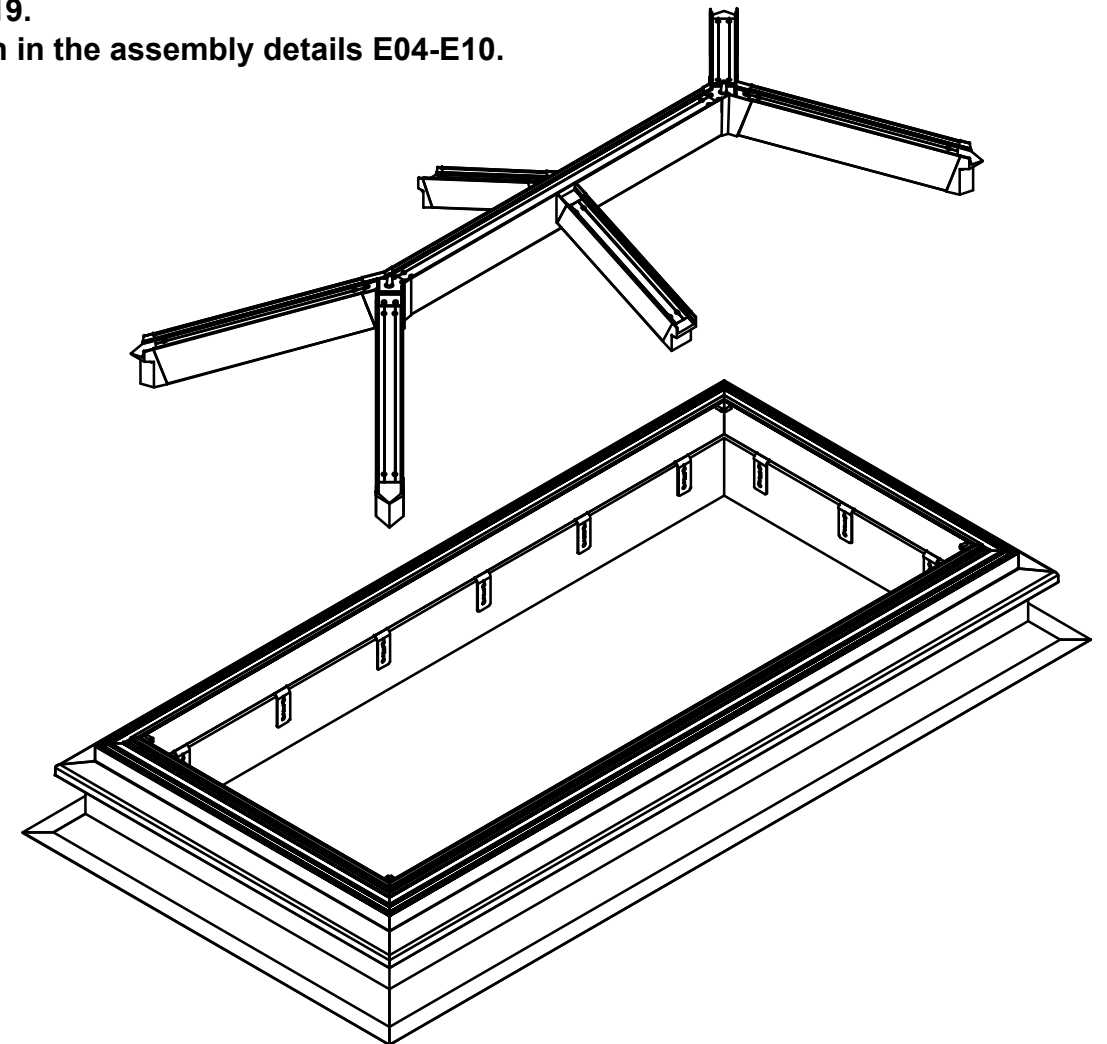
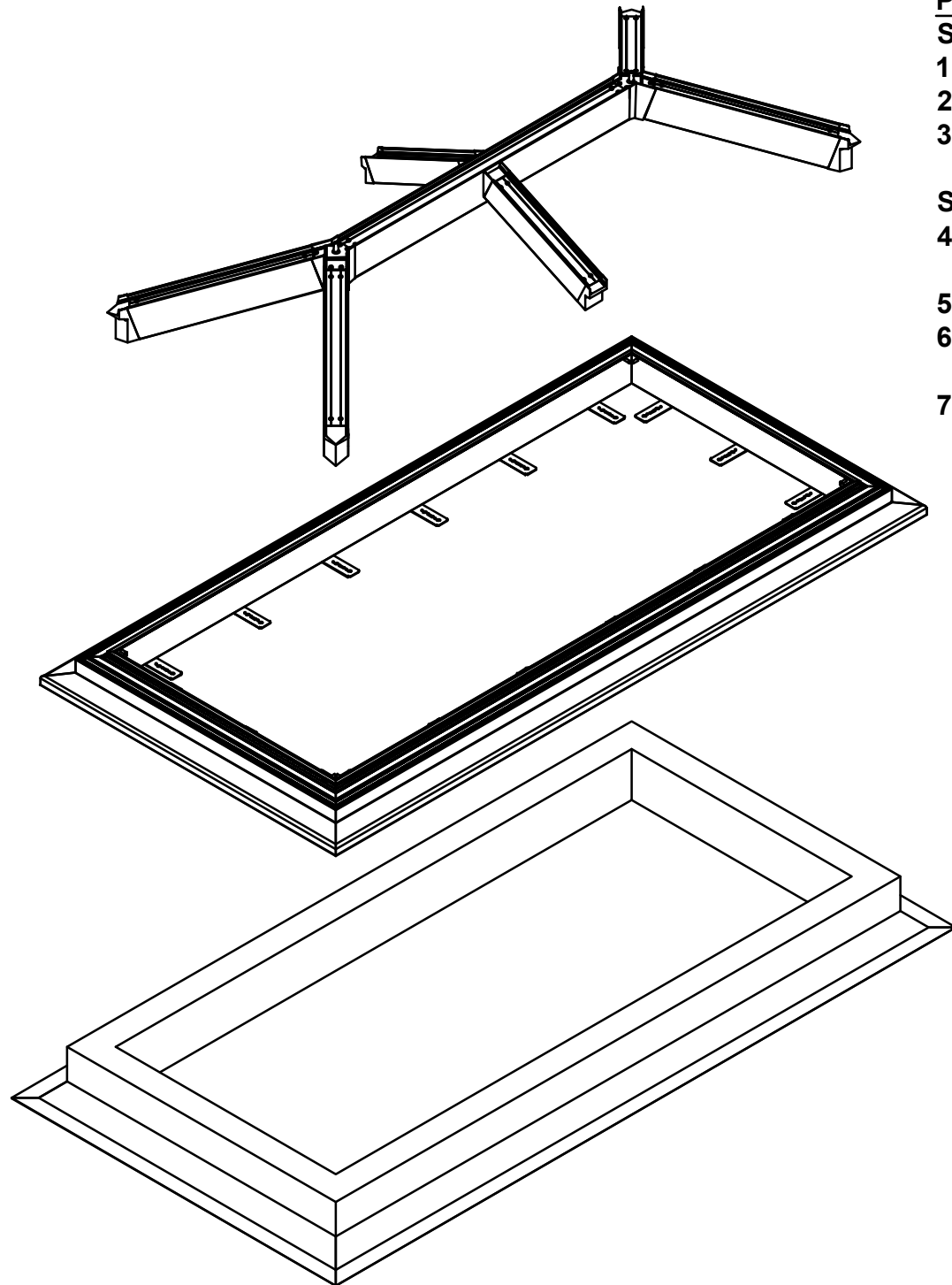
Please note that a minimum of 2 people are required for installation.

Step One

1. Fix ACUN232/3 fixing straps at 100mm from each corner and at 400mm max. centres
2. Position eaves beam into position, level and square as required and then seal
3. Bend the fixing straps into position and secure using suitable screws for the structure

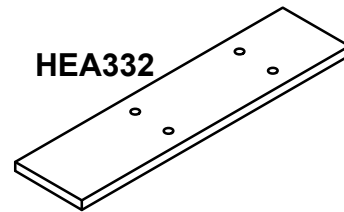
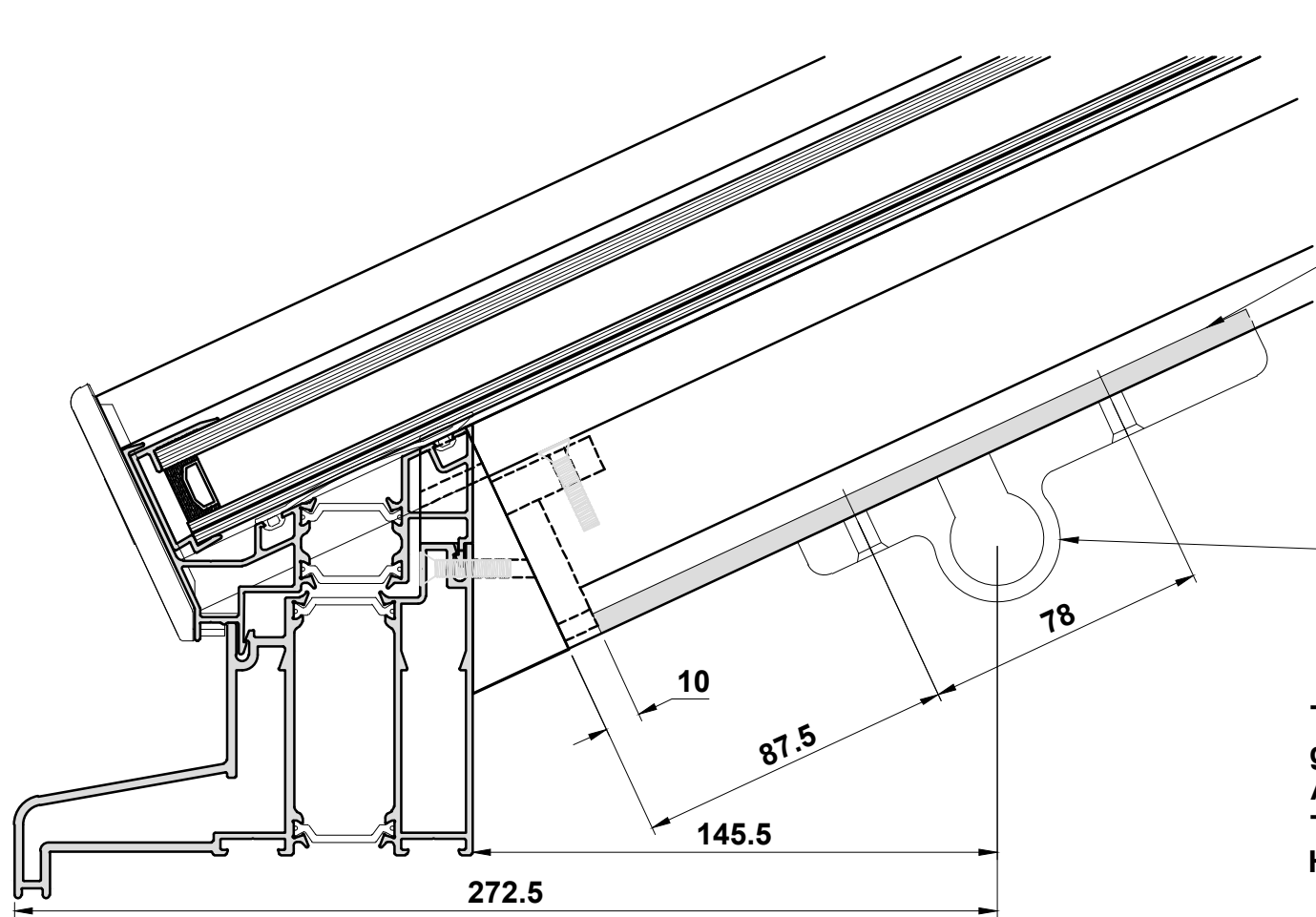
Step Two

4. Lower the pre-fabricated ridge, hip & rafter assembly onto the eaves beam, seal and fix using WCA143 machine screws
5. Clip fit the EHE119 glass stop and seal against the hips & rafters
6. Position the glass (with EHE128 fitted) into the openings and ensure the bottom of the glass is held under the ridge of EHE119.
7. Glaze following the steps shown in the assembly details E04-E10.

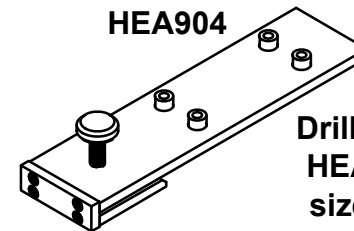
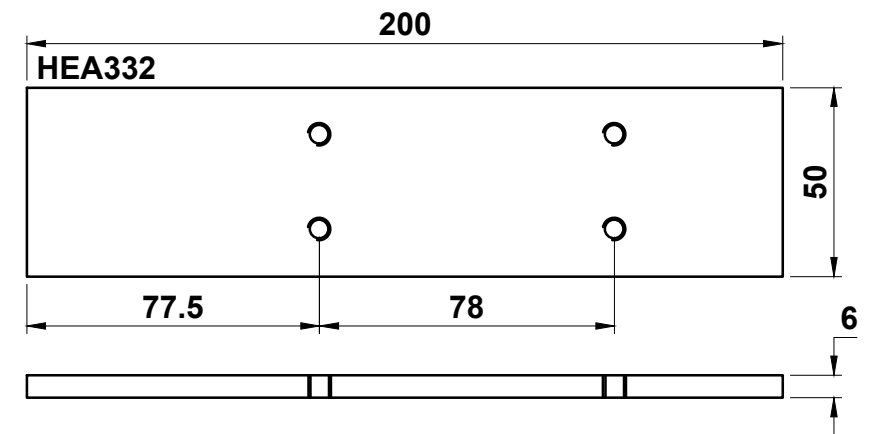


Do Not Scale From This Drawing

Tie Bar

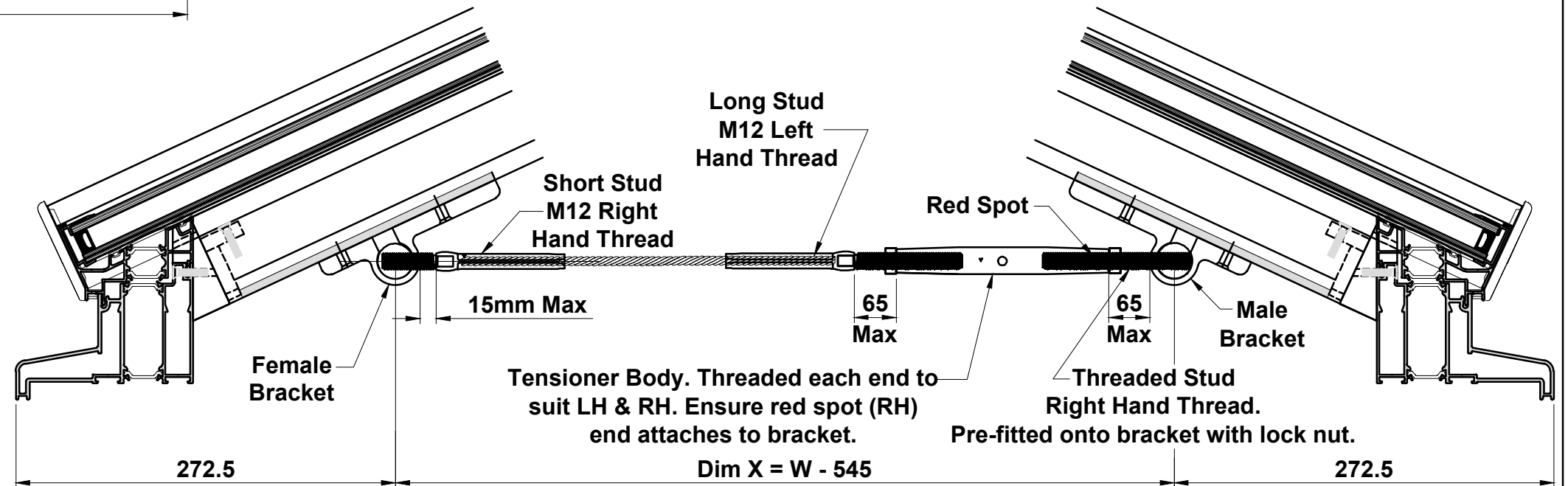


HEA332
HEA332 fixing plate must be fitted prior to assembly.



HEA904
Drill 4 x Ø5mm holes using HEA904 jig. Increase hole size to Ø7mm without jig.

Tie bars are required if the length is over 4000mm and fitted to glazed lights, or a structure that cannot support the load. As tie bars are cut to order, please order direct from Tiewire T: 0845 643 1945 E: sales@tiewire.co.uk W: tiewire.co.uk HEA332 fixing plate & HEA904 are available from Smart Systems.



Do Not Scale From This Drawing

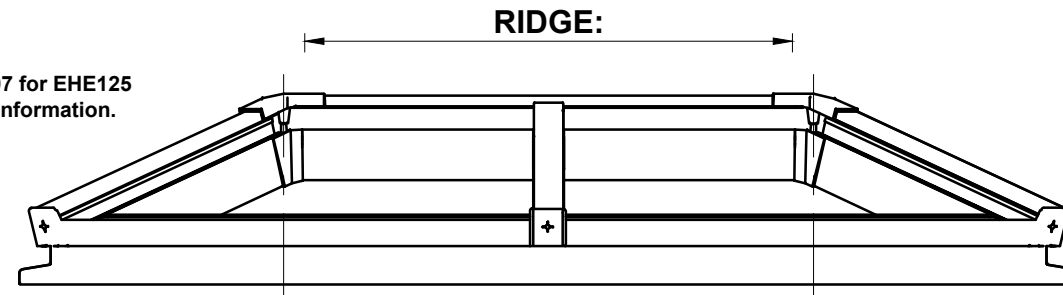
Sawing Tables

Cutting Information

PROFILE CUTTING SCHEDULE WITHOUT RAFTERS

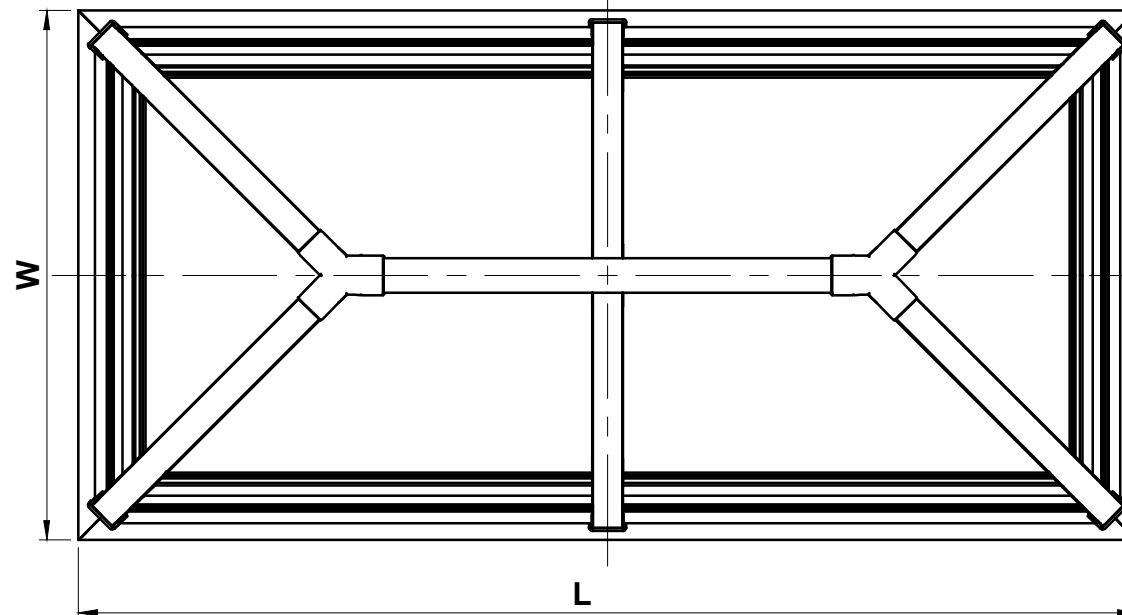
EAVES	EHE110	2		W
	EHE110	2		L
	EHE119	2		W - 144
	EHE119	2		L - 144
	EHE128	2		W - 144
	EHE128	2		W - 144
RIDGE	EHE122	1		(L-W)-25
	EHE125	1		(L-W)-69
	EHE160	1		(L-W)-20
	EHE170	1		(L-W)-20
HIPS	EHE123	4		$(W/2\sqrt{2}-113.5) \text{ COS } 18.2 + 4$
	EHE125	4		$(W/2\sqrt{2}-113.5) \text{ COS } 18.2 - 165.5$
	DK052	4		$(W/2\sqrt{2}-113.5) \text{ COS } 18.2 + 4$
	MC152	4		$(W/2\sqrt{2}-113.5) \text{ COS } 18.2 + 4$

* See E07 for EHE125 cutting information.



PROFILE CUTTING SCHEDULE WITH RAFTERS

EAVES	EHE119	2		W - 144
	EHE119	2		(L/2) - 101.5
	EHE119	2		(L/2) - 101.5
	EHE128	2		W - 145
	EHE128	2		(W/2) - 101.5
	EHE128	2		(W/2) - 101.5
RAFTERS	EHE120	2		$(W/2-32.5) / \text{COS } 25 - 167$
	DK052	2		$(W/2-32.5) / \text{COS } 25 - 77$
	MC150	2		$(W/2-32.5) / \text{COS } 25 - 77$
	VR514	2		$(W/2-32.5) / \text{COS } 25 - 80.5$

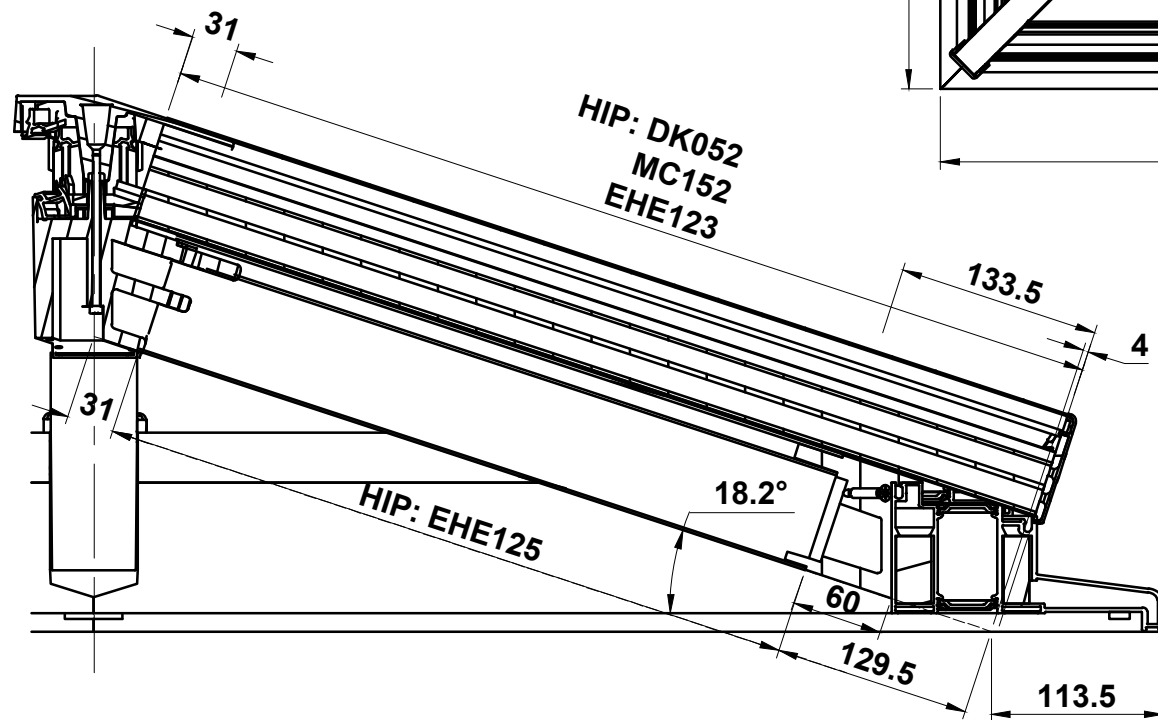


ACCESSORIES

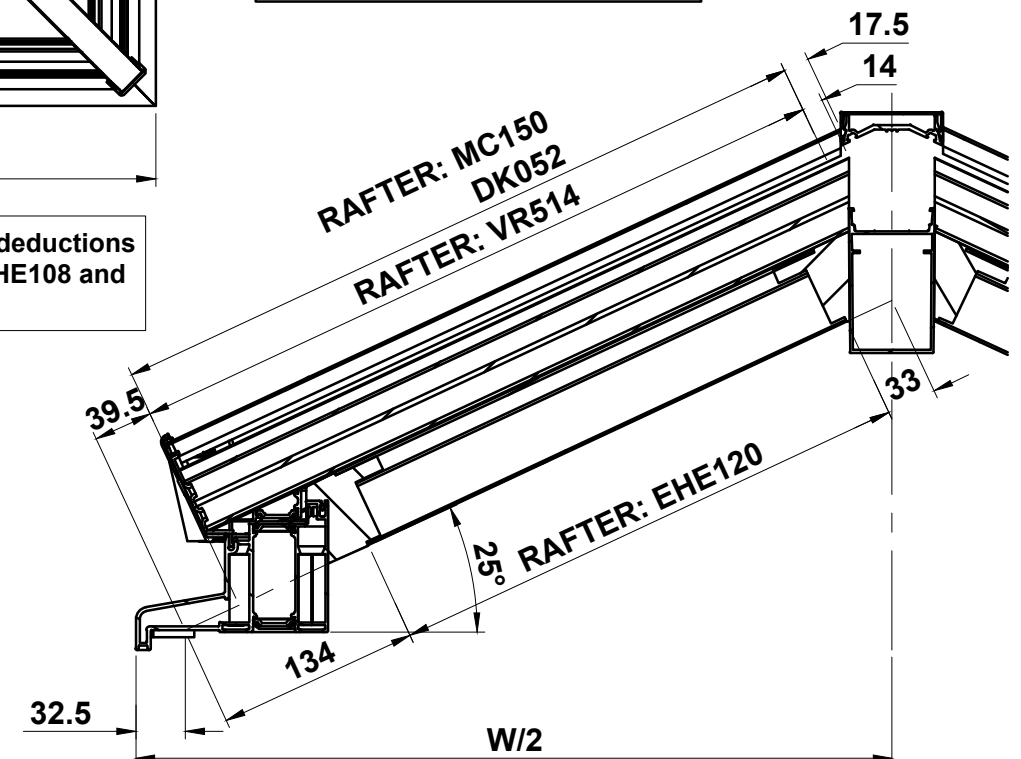
EAVES	ACET041	4	EHE110 Nose Bracket
	ACET064	8	ACET041 Screw
	ACET190	At 300mm Centres	Polyamide Screws
	HEA310	4	EHE110 Corner Cleats
RIDGE & HIPS	HEA372	4 x W & 4 x L	EHE119 Gasket
	HEA340	4	Hip to Eaves Bracket
	HEA345N	2	Ridge to Hip Bracket Kit
	HEA351	4	Hip Cast End Cap
	ACDR052/ACUN3507	At 300mm Centres	Pressure Plate Screws
	ACMC019	(L-W) - 20	EHE160 Pressure Plate Gasket
	ACMC150	8 x $(W/2\sqrt{2}-113.5) \text{ COS } 18.2 - 46$	MC152 Pressure Plate Gasket
	ACMC635	8 x $(W/2\sqrt{2}-113.5) \text{ COS } 18.2 + 4$	MC150 Hip Gasket
	ACMC635	8 x (L-W) - 25	EHE123 Hip Gasket
	HEA132	28	Bracket Screws
	HEA342	2	Rafter to Eaves Bracket
	HEA343	2	Rafter to Ridge Bracket
HEA353	2	Rafter Cast End Cap	
RAFTERS	ACDR050/ACUN3507	At 300mm Centres	Pressure Plate Screws
	ACMC635	2 x $(W/2-32.5) / \text{COS } 25 - 80.5$	VR514 Rafter Gasket
	ACMC150	8 x $(W/2\sqrt{2}-113.5) \text{ COS } 18.2 + 4$	MC150 Rafter Gasket
	ACMX09811	2 at 250mm min.	Sealing Tape
	ACUN3509	4	HEA343 to EHE125 Rivnut
	WCA143	4	HEA343 to EHE125 Screw
HEA132	12	Bracket Screws	

GLASS

Use FDS Software for glass sizes or contact the Smart Systems Roof Department on 01934 876100



Note: Dimensional deductions will be same for EHE108 and EHE109



Do Not Scale From This Drawing