

Main Index EHE Index EHE **Profiles** Specification Pages...... A03 - A06 EHE **Accessories** Photos & Drawings...... B03 - B15 EHE **Sections** EHE EHE **Construction Drawings** HEA905 Punch Tool...... E04 Hip to Eaves...... E05 HEA350 Hip End Cap...... E06 Ridge & Hip..... E07 Crown Assembly..... E08 Rafter to Ridge..... E09 Rafter to Eaves..... E10 HEA352 Rafter End Cap..... E11 EHE128 Glass End Cover..... E12 Installation Details..... E13 - E14 Tie Bar Detail..... E15 **Sawing Tables** Cutting Information..... F01 - F02





	Updates									
DATE	PAGE	DESCRIPTION								
DATE	PAGE 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.								

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PROFILES: SPECIFICATION PAGES

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.

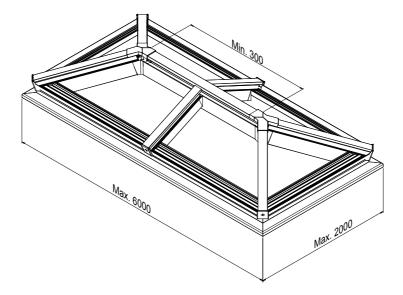
SIZE LIMITS

Max Width: 2000mm

Max Length: 6000mm where fitted to adequate structure.

<u>Important Note</u> - 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

PAGE A03



PROFILES: SPECIFICATION PAGES

Specification

PROFILE SPECIFICATION

The roof sections are constructed of aluminium alloy extrusion to BS EN 755-9 and BS EN 12020, extruded from 6060 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.

PAGE A04



PROFILES: SPECIFICATION PAGES

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:

BS EN 1027: 2000 Watertightness:

Class 2 300Pa

Class 6A 250Pa

BS EN 12211: 2000 Resistance to Wind Load:

Class C5 2000Pa

Aliver Orangery Window Security (PAS 24)

To be tested.

Aliver Orangery Window U Values

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

PAGE A05



PROFILES: SPECIFICATION PAGES

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 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.

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

Number	Picture	Page	Perim. mm	Mec. mm	lx(cm4) wx(cm3)	ly(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	НР	M
EHE110	A B X Y X Y X Y X Y X Y X Y X Y X Y X Y X	A09	536	211	188.55 — 26.01	85.45 — 20.01	6.3	1	√	✓	√	✓	>
EHE119	A Y Y Y	A10	489	110	44.46 — 8.33	10.07 — 3.22	6.3	1	✓	✓	✓	✓	√
EHE120	X Y—X Y—X	A11	294	208	25.79 — 9.05	24.15 — 7.50	6.5	1	✓	✓	✓	✓	
EHE122	PVC YXY	A12	-	-	***	***	6.5	*	✓	√	√	√	
EHE123	PVC xx xx xx xx xx xx xx	A12	-	-	***	***	6.5	*	✓	√	√	√	
EHE125	x v+x	A12	349	262	63.06 — 13.53	33.65 — 11.81	6.5	1	✓	>	>	>	
EHE128	x v+v x	A13	154	31	- -	. .	6.5	1	✓	>	>	>	
EHE160	x v+v	A14	217	77	- - -	- - -	6.5	1	✓	✓	√	✓	
EHE170	x x y + x x	A14	221	120	<u>-</u> -	<u>-</u> -	6.5	1	✓	✓	√	✓	
								A = Ou B = Ins		SA KL HF	= Basi	er Anodis ic Colour cial Colou	

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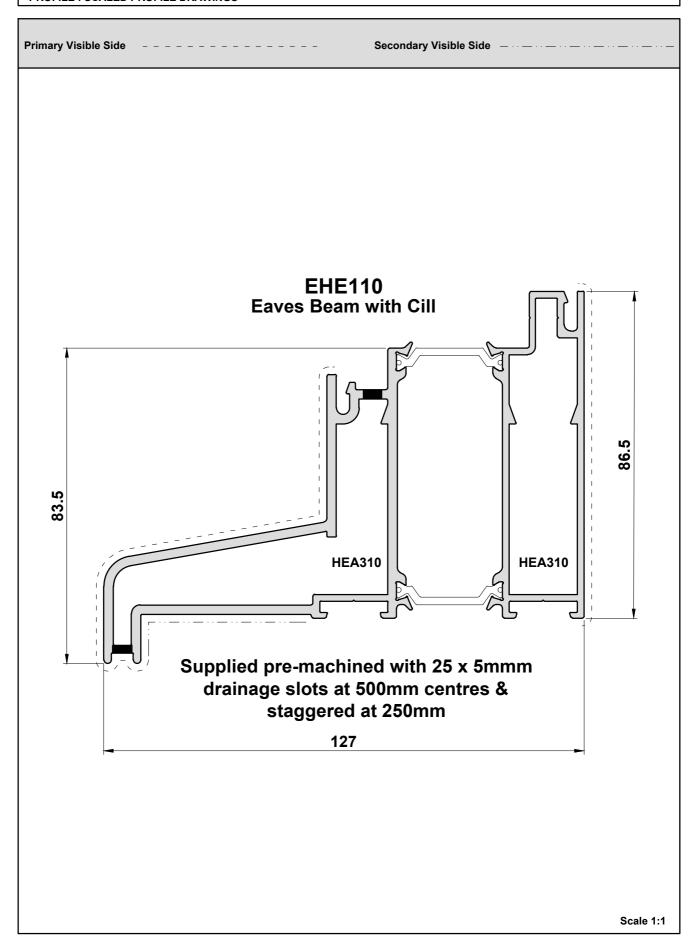
PROFILES: TECHNICAL INFORMATION

Number	Picture	Page	Perim. mm	Mec. mm	lx(cm4) wx(cm3)	ly(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	НР	М
DK052N	$\bigvee_{\substack{v \xrightarrow{X} \\ v x}}$	A14	180	99	- - -	. .	7	1	✓	✓	√	~	
MC150	× v+v x	A14	185	-	- -	- - -	7	1	✓	✓	✓	✓	
MC152	J. X. Y.	A14	186	-	- -	-	7	1	✓	✓	✓	✓	
VR514	PVC x+x	A11	-	-	- -	- - -	7	1	✓	✓	√	✓	
	$y \xrightarrow{X} y \xrightarrow{X} x$												
	$\begin{array}{c} x \\ y y \\ x \end{array}$												
	$y \xrightarrow{X} y$												
	$\begin{pmatrix} x \\ y \xrightarrow{\downarrow} y \\ x \end{pmatrix}$												
	X Y—Y X												
	A = Outside B = Inside MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour M = Dual Colour												

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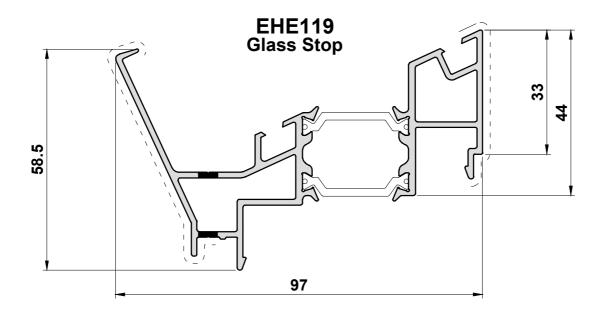
PROFILE: SCALED PROFILE DRAWINGS



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PROFILE : SCALED PROFILE DRAWINGS



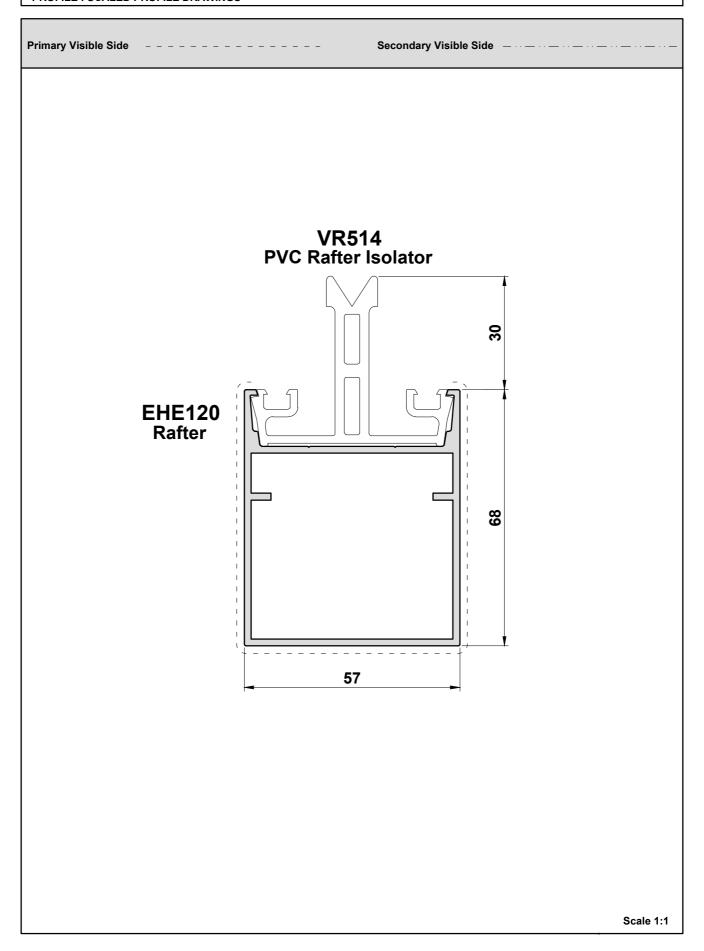
Supplied pre-machined with 25 x 5mmm drainage slots at 500mm centres & staggered at 250mm

Scale 1:1

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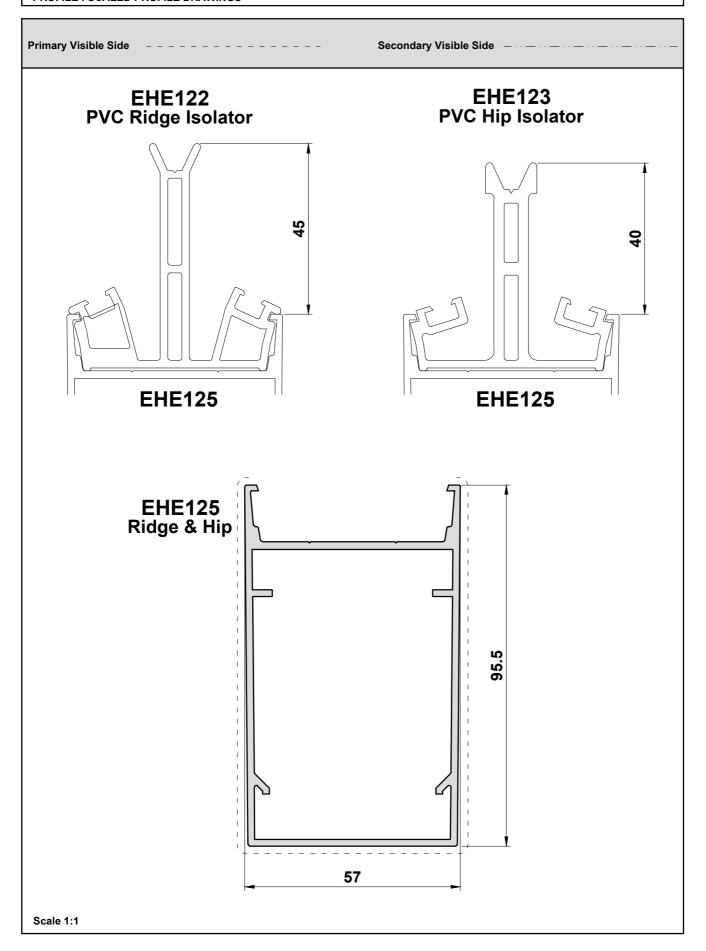
PROFILE: SCALED PROFILE DRAWINGS



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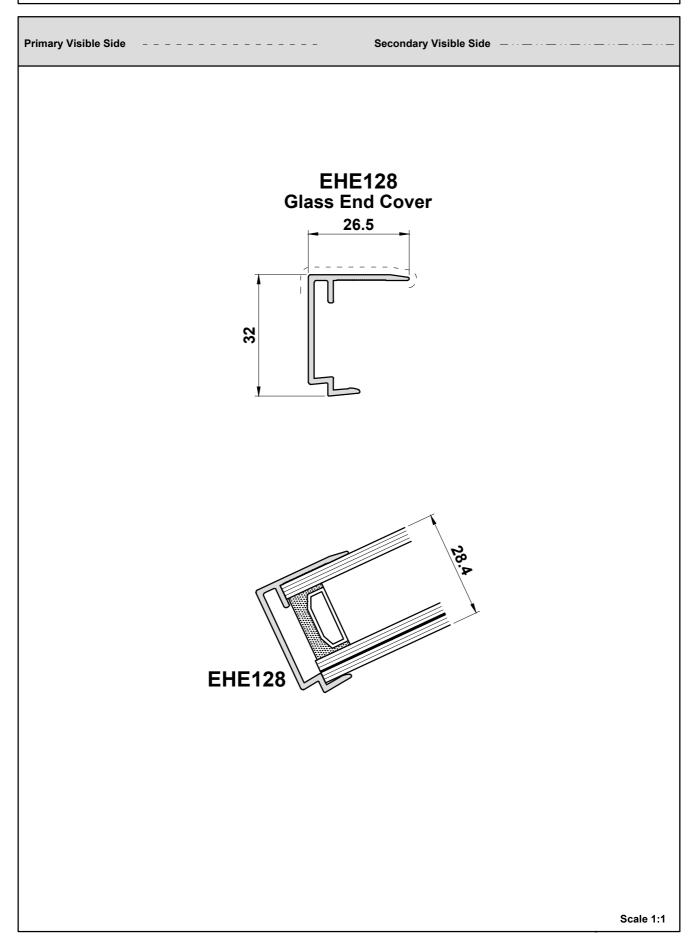
PROFILE: SCALED PROFILE DRAWINGS



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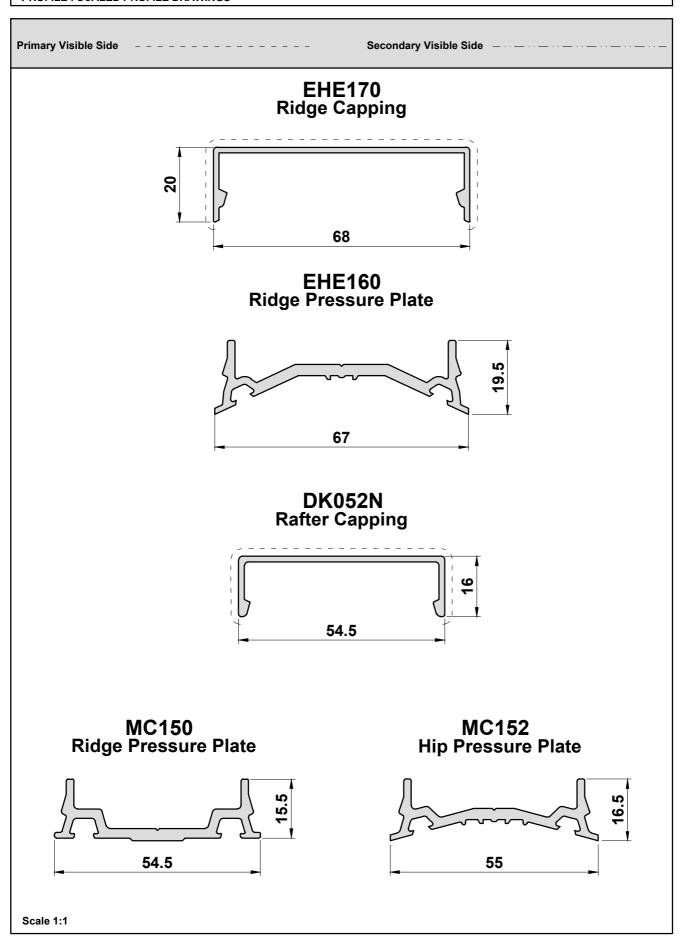


PROFILE: SCALED PROFILE DRAWINGS



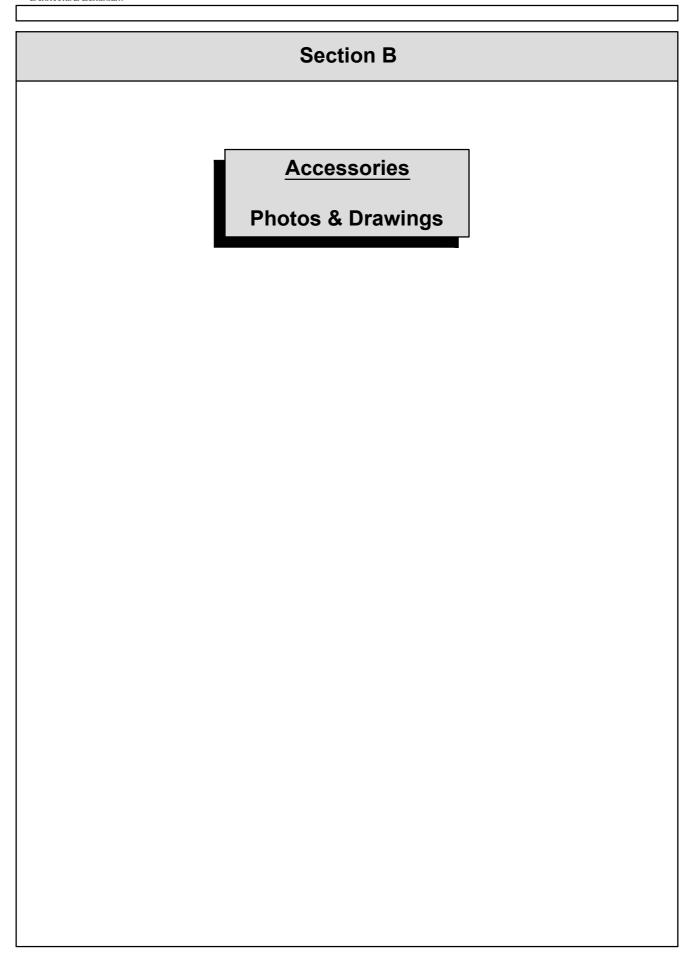
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PROFILE: SCALED PROFILE DRAWINGS



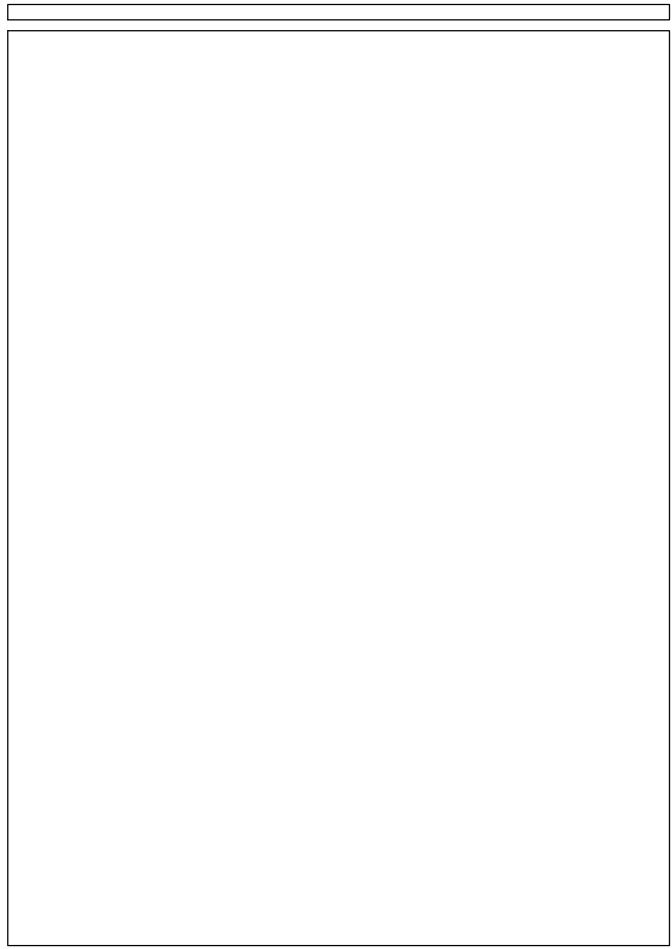
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architectural aluminium
ACCESSORIES: PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour
. 50	ACDR052	200	pack		MF
50	AODINOZ		paon		SA KL
	No. 10 x 50 S/S Self				HP
	Tapping Pan Head Screw				SSC SMC
					W
					Z
					PC
	ACET041	1	each	EHE110	MF
	ACETOTT	'	Cacii		SA KL
	Cill Nose Bracket				HP
					SSC
	Screws = ACET064				SMC
					W Z
					PC
					MF
16	ACET064	100	pack		SA
					KL
NILLIAND	No. 8 x 16 S/S Self Tapping				HP
	Countersunk Screw				SSC SMC
					W
					Z
					PC
	A CET400	1000	pack	EHE119	MF
45	ACET190	1000	pack		SA
	4.3 x 45mm CSK				KL HP
- Acceptante of the Control of the C	Polyamide Screw				SSC
					SMC
					W Z
					PC
					MF
32	ACIM062	100	pack		SA
32					KL
hannana mana	No. 10 x 32 S/S Self Tapping				HP
	Countersunk Screw				SSC SMC
					W
					Z
	MF = Mill Finish W =	White		/	PC
T-BARS ACVG65-2.5mm ACVG66-3.0mm ACVL150-4.0mm Screw (Grub)		= White = Black	X		
	HP = Special Colour SSC = Smooth Satin Chrome				
	SMC = Smokey Chrome				
	PC = Polished Chrome				

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ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour
	ACMC019 Gasket for EHE160	100	m	EHE160	MF SA KL HP SSC SMC W Z PC
	ACMC150 Gasket for MC150	100	m	MC150	MF SA KL HP SSC SMC W Z PC
	ACMC635 Retaining Gasket	100	m	EHE122 EHE123 VR514	MF SA KL HP SSC SMC W Z PC
Caspin Mills	ACMX09811 55mm Wide Sealing Tape	20	m		MF SA KL HP SSC SMC W Z PC
	ACUN23X Screw Fixing Lug ACUN232: B = 240MM ACUN233: B = 280MM	100	Pack		MF SA KL HP SSC SMC W Z PC
T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm Screw (Grub)		= White = Black	X		

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architectural aluminium
ACCESSORIES: PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour
50	ACUN3507 No10 x 50mm Anti-Tamper	100	m	EHE122 VR514	MF SA KL HP
	S/S Screw				SSC SMC W Z
	ACUN3508 ACUN3507 Bit	1	each	ACUN3507	MF SA KL
	ACUN3507 Bit				SSC SMC W
	ACUN3509	100	pack	HEA343	MF SA KL
	M5 Rivnut				HP SSC SMC W
25	ACUN3514	100	pack	HEA343	PC MF SA KL
	M5 x 25mm S/S Pan Head				HP SSC SMC W
	ACVS061	100	pack	HEA345	Z PC MF SA
40	M4 x 40mm S/S CSK Screw				KL HP SSC SMC W
T-BARS ACVG68-2 5mm ACVG68-3 0mm ACVL150-4 0mm Screw (Grub)		= White = Black	X		Z PC
	HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome			\	\

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ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour
	HEA310 EHE110 Corner Cleats	1	set		MF SA KL HP SSC SMC W Z PC
	HEA332 Rafter Tie Bar Bracket	1	each		MF SA KL HP SSC SMC W Z PC
	HEA340 Rafter to Eaves Bracket	1	each		MF SA KL HP SSC SMC W Z PC
	HEA342 Rafter to Eaves Bracket	1	each		MF SA KL HP SSC SMC W Z PC
					MF SA KL HP SSC SMC W Z PC
T-BARS ACVG65-2.5mm ACVG69-3.0mm ACVL150-4.0mm Screw (Grub)		= White = Black	X		Tr.

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ACCESSORIES : PHOTOS & DRAWINGS

lmage	Part Code	Pack	Unit	Application	Colour
	HEA343 Rafter to Ridge Bracket	1	each		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		MF SA KL HP SSC SMC PC
The state of the s	HEA350 Hip End Stop & Cover Cap	2	pack		MF SA KL HP SSC SMC W Z PC
11 1000	HEA352 Rafter End Stop & Cover Cap	2	pack		MF SA KL HP SSC SMC W Z PC
T-BARS ACVG65=2 5mm ACVG66=3 0mm ACVL150=4.0mm Screw (Grub)		- White - Black	X	7 ?	

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ACCESSORIES : PHOTOS & DRAWINGS

ACCESSORIES : PHOTOS & DRAWINGS	-				
Image	Part Code	Pack	Unit	Application	Colour
	HEA355	1	kit		MF SA
	1.2.1000	-			KL
	Main Kit				HP
	Consists of:				SSC SMC
	4 x HEA340 Hip Brackets				W
	2 x HEA345 Crown Kits				Z
	4 x HEA350 Hip End Caps				PC
		<u>~</u>			
		\bigvee			
	سامـــا	1			
	HEA34	.0			
)				
	^				
<u> </u>					
		1 Jan 20 1			
	(1/4)	/ WA			
A PO A		V			
	HEA3	550			
HEA345N					
Consists of:					
1 x Top Cover Cap 1 x Rubber Seal)				
1 x Crown Body					
1 x M5 x 100mm F	ixing				
3 x Clamp Sets 1 x Bottom Cover					
T-BARS	MF = Mill Finish W =	= White	_	~ 14 ~	
ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm	SA = Silver Anodised Z = KL = Basic Colour	= Black	X		
	HP = Special Colour				<u></u>
	SSC = Smooth Satin Chrome SMC = Smokey Chrome				
	PC = Polished Chrome				

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ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour
	HEA356 Rafter Kit Consists of: 2 x HEA342 Rafter to Eaves Bracket 2 x HEA343 Rafter to Ridge Bracket 2 x HEA352 Rafter End Caps		kit		MF SA KL HP SSC SMC W Z PC
HEA342		HEA3	12		
	HEA352	IILAS	70		
T-BARS ACVG65=2.5mm ACVG69=3.0mm ACVL150=4.0mm Screw (Grut		= White = Black	X	7 ₹	

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ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour
	HEA370 Crown Rubber Seal	1	each		MF SA KL HP SSC SMC W Z PC
O	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 ACVG869-2 5mm ACVL150=4.0mm Screw (Grub)		= White = Black	X	1	

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ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour
	HEA903 EHE110 Corner Drill Jig	1	each	EHE110 HEA310	MF SA KL HP SSC SMC W Z PC
	HEA904 Tie Bar Drill Jig	1	each	EHE120 HEA336	MF SA KL HP SSC SMC W Z PC
	HEA905 Punch Tool	1	each	EHE110 EHE120 EHE125 EHE128	MF SA KL HP SSC SMC W Z PC
100 117	HEA910 Contour Block for EHE110	1	each	EHE110	MF SA KL HP SSC SMC W Z PC
62.5 100	HEA911 Contour Block for EHE119	1	each	EHE119	MF SA KL HP SSC SMC W Z PC
T.BARS ACVG65-2 5mm ACVG65-3 0mm ACVL150=4.0mm Screw (Grub)		= White = Black	X		

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ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Cold	our
25	WCA143 M5 x 25mm Screw	100	pack	HEA340 HEA342 HEA343 HEA345	MF SA KL HP SSC SMC W Z PC	
SPITION TO THE STATE OF THE STA	ACMX09700 Alu-Polish Cleaning emulsion for aluminium oxide.	1	each		MF SA KL HP SSC SMC W Z PC	✓
Miguilance Control of the Control of	ACMX09761 Maxi Gloss Protection for painted and anodised surfaces.	1	each		MF SA KL HP SSC SMC W Z PC	
ANGOLINA OF ANGOLI	ACMX09762 Alu. Bright Cleaner for rough, anodised or enamelled aluminium frames.	1	each		MF SA KL HP SSC SMC W Z PC	
EFLON PRAY	ACMX09763 Teflon Spray Lubricant	1	each		MF SA KL HP SSC SMC W Z PC	
T-BARS ACVG65-2.5mm ACVG66-3.0mm ACVL150=4.0mm Screw (Grub)		- White - Black	X	7 ?		ŢĬ.

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ACCESSORIES: PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour
MAXICLEANER Personner Les and the second of the second o	ACMX09764 Maxi Cleaner For cleaning oily surfaces.	1	each		MF SA KL HP SSC SMC W Z PC
CONTROL OF THE PROPERTY OF THE	ACMX09765 Glue Cleaner De-grease and silicone remover.	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
T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm Screw (Grub)		- White - Black	X	7 ?	

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ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Colour
	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
ACSILO5 E	ACSIL05 Rubber Sealant	1	each		MF SA KL HP SSC SMC W Z PC
The state of the s	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
T-BARS ACVC665=2 5mm ACVC66-3 0mm ACVL150=4.0mm Screw (Grub)		- White - Black	X	7 ?	

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ACCESSORIES : PHOTOS & DRAWINGS

Image	Part Code	Pack	Unit	Application	Col	our
	ACSIL013 Glue for Mitre	1	each		MF SA KL HP SSC SMC W Z PC	
ANTICOSE OF THE PARTY OF THE PA	ACSIL014 Anti-Corrosion Coating	1	each		MF SA KL HP SSC SMC W Z PC	✓
ACUN3610 (E->	ACUN3610 Single Component Adhesive	1	each		MF SA KL HP SSC SMC W Z PC	
Fornor Surface Aethalor Aethalor	ACUN3612 Surface Activator (1L)	1	each		MF SA KL HP SSC SMC W Z PC	
	ACUN3900 Gasket Roller	1	each		MF SA KL HP SSC SMC W Z PC	
T-BARS ACVG65=2 Smm ACVG66=3.0mm ACVL150=4.0mm Screw (Grub)		White Black	X			TI.

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ACCESSORIES: PHOTOS & DRAWINGS

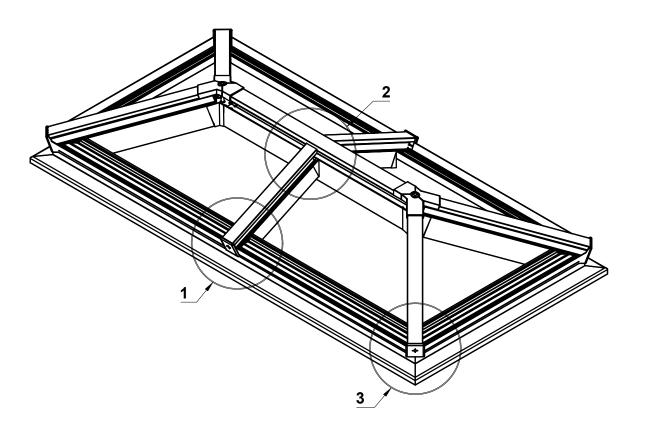
Image	Part Code	Pack	Unit	Application	Colour
					MF SA
					KL HP
					SSC
					SMC W
					Z
					PC MF
					SA
					KL HP
					SSC
					SMC W
					Z PC
					MF
					SA
					KL HP
					SSC
					SMC W
					Z PC
					MF
					SA
					KL HP
					SSC
					SMC W
					Z PC
					MF
					SA
					KL HP
					SSC
					SMC W
					Z PC
T-BARS	MF = Mill Finish	W = White		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
ACVG65=2 5mm ACVG66=3 0mm ACVL150=4 0mm	SA = Silver Anodised KL = Basic Colour	Z = Black	X		
	HP = Special Colour SSC = Smooth Satin Chrome				
	SMC = Smokey Chrome PC = Polished Chrome				

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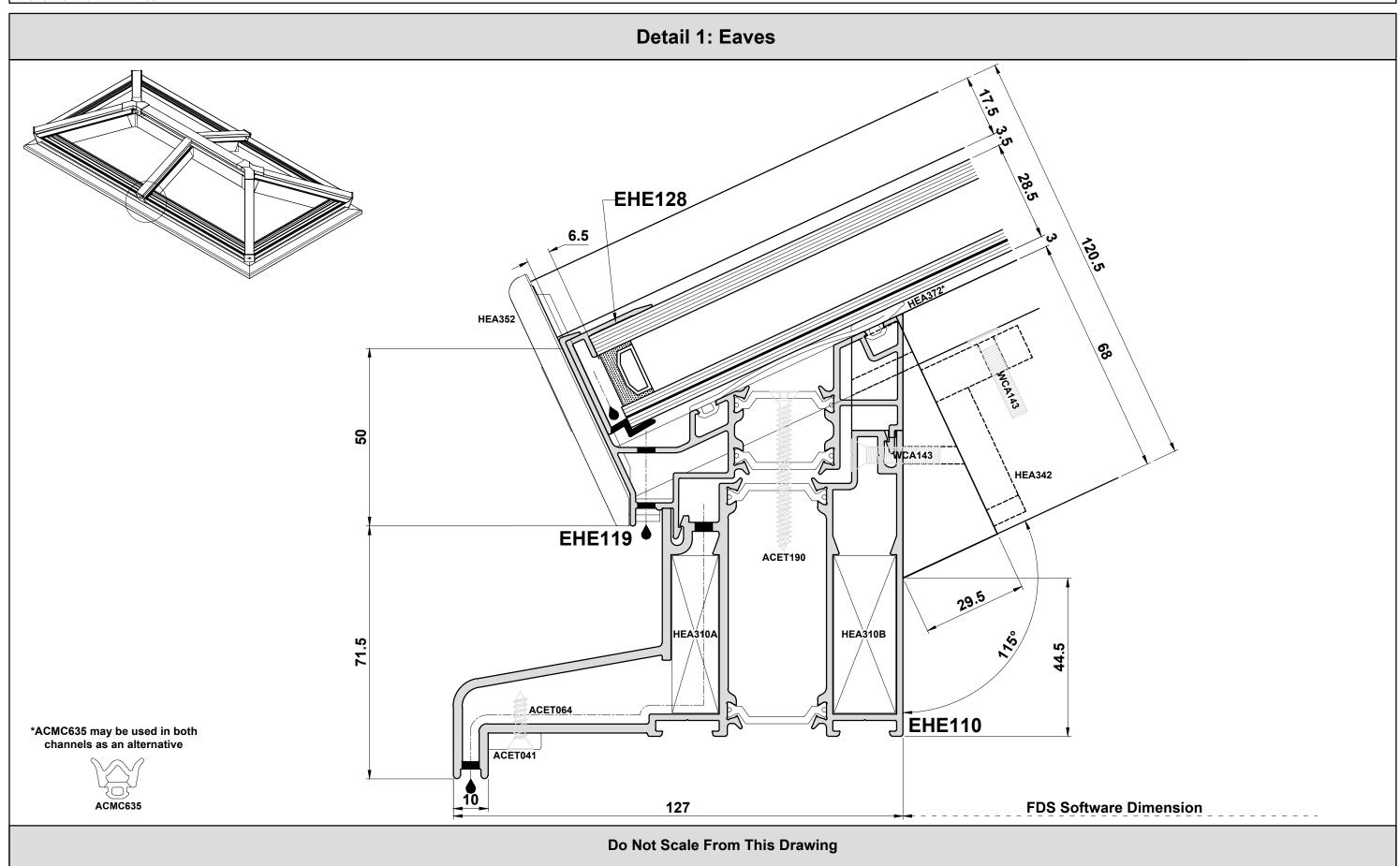
Section C <u>Sections</u> **Scale Elevations**



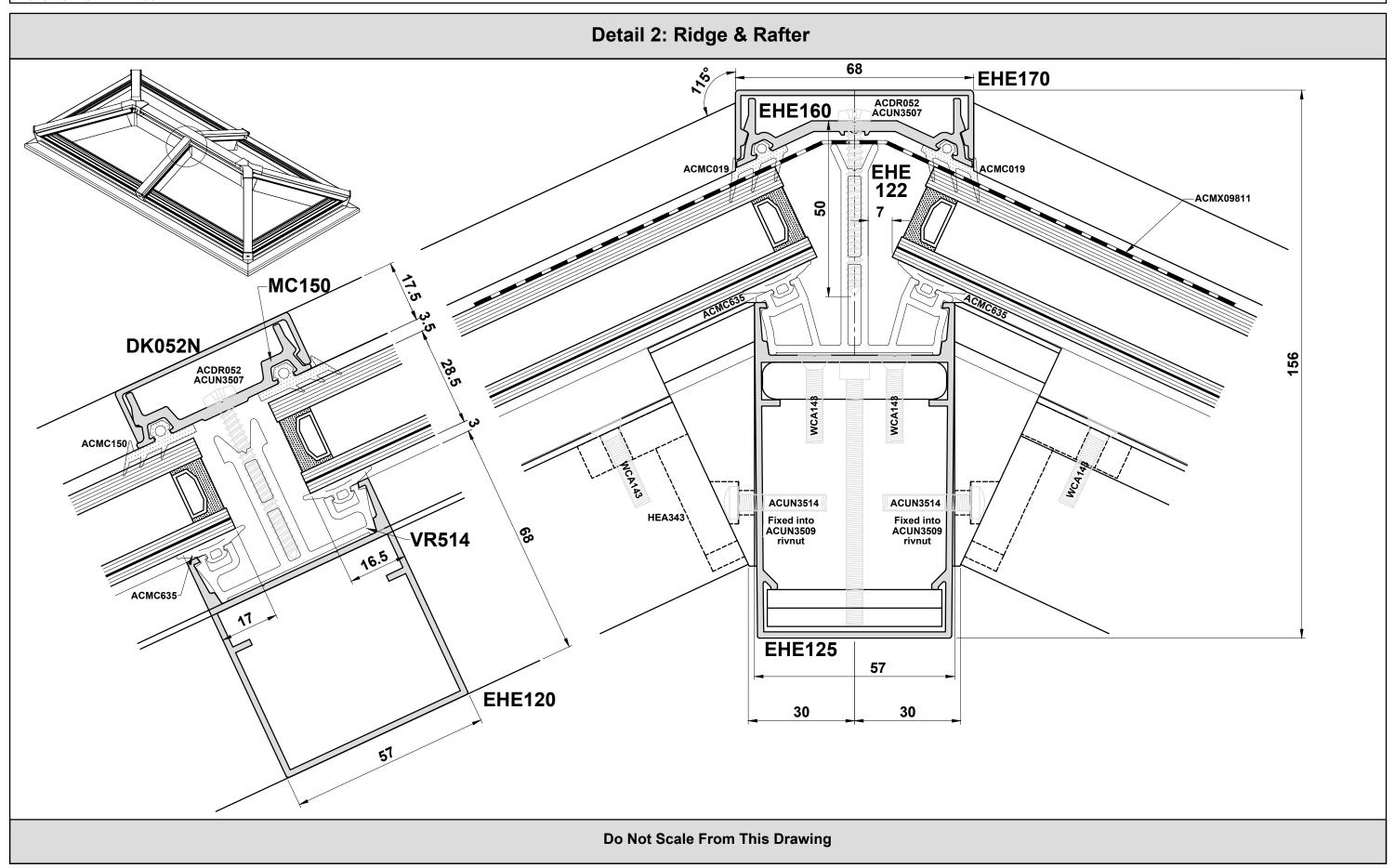


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CONSTRUCTION DRAWINGS

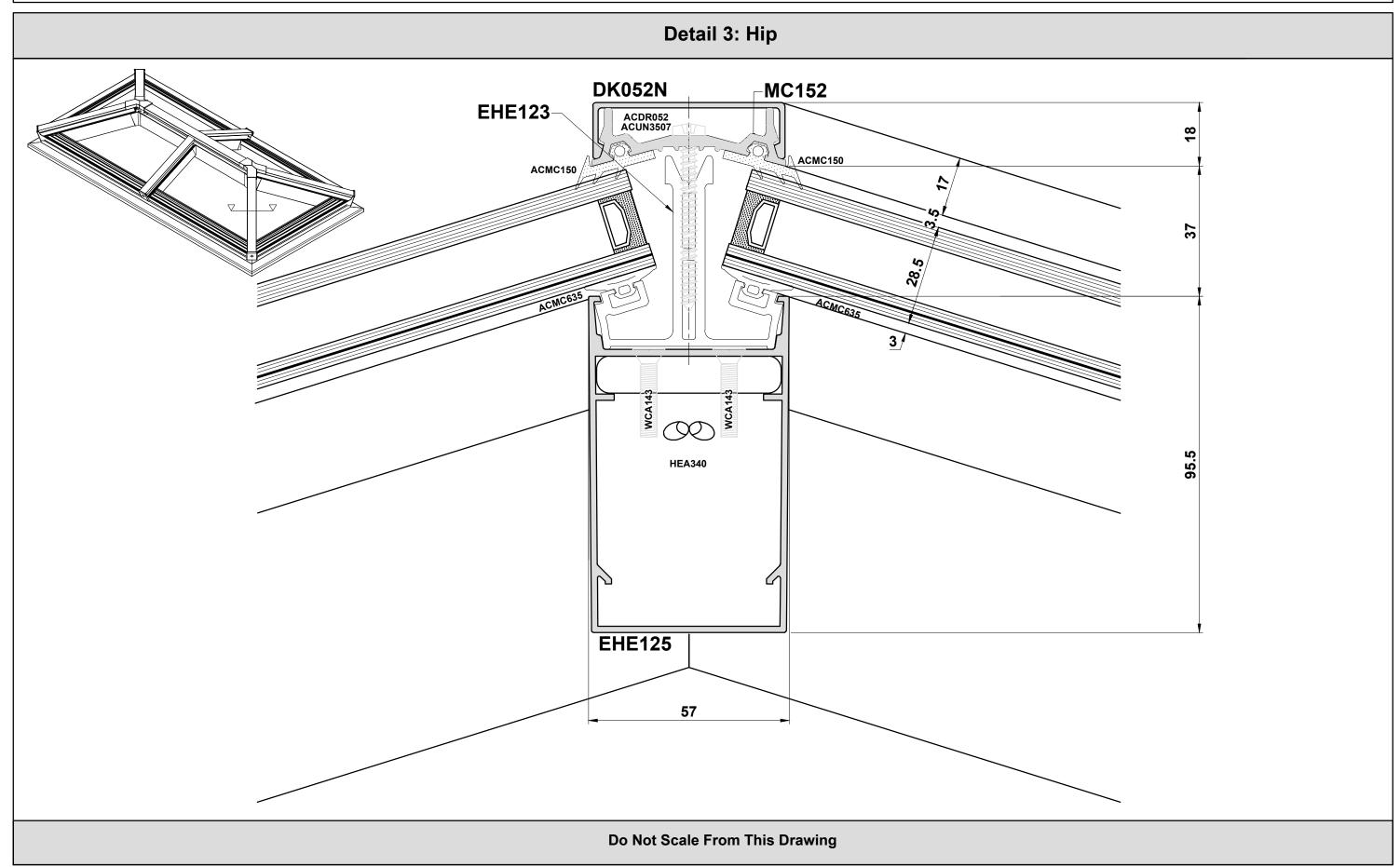


CONSTRUCTION DRAWINGS





CONSTRUCTION DRAWINGS





CONSTRUCTION DRAWINGS	
	Do Not Scale From This Drawing

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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

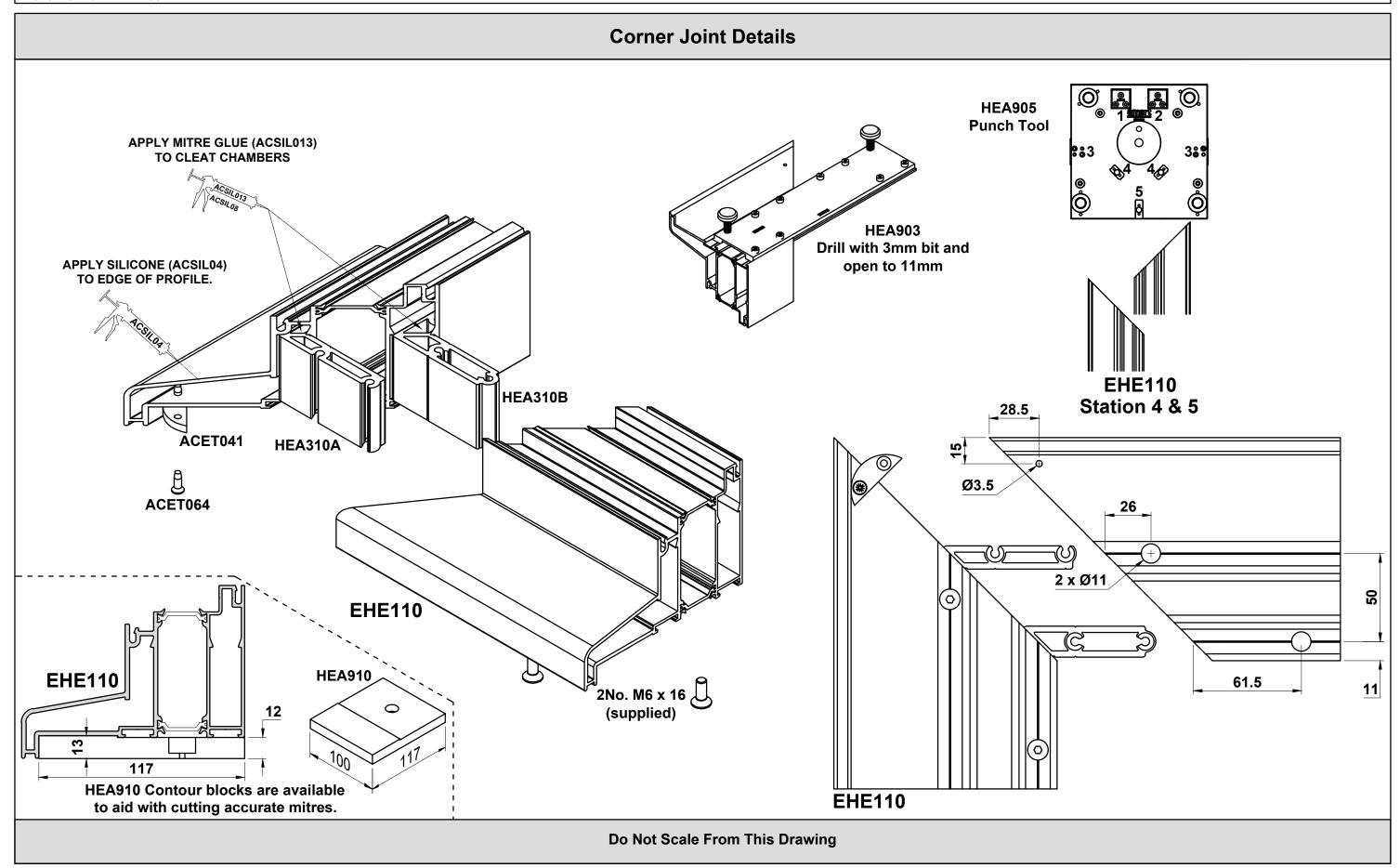


Construction Drawings

EHE119 Corner Detail	E03
HEA905 Punch Tool	E04
Hip to Eaves Assembly	E05
HEA350 Hip End Cap	E06
Ridge & Hip Assembly	E07
Crown Assembly	E08
Rafter to Ridge Assembly	E09
Rafter to Eaves Assembly	E10
HEA352 Rafter End Cap	E11
EHE128 Glass End Cover	E12
Typical Installation Details	E13 - E14
Tie Bar Details	E15



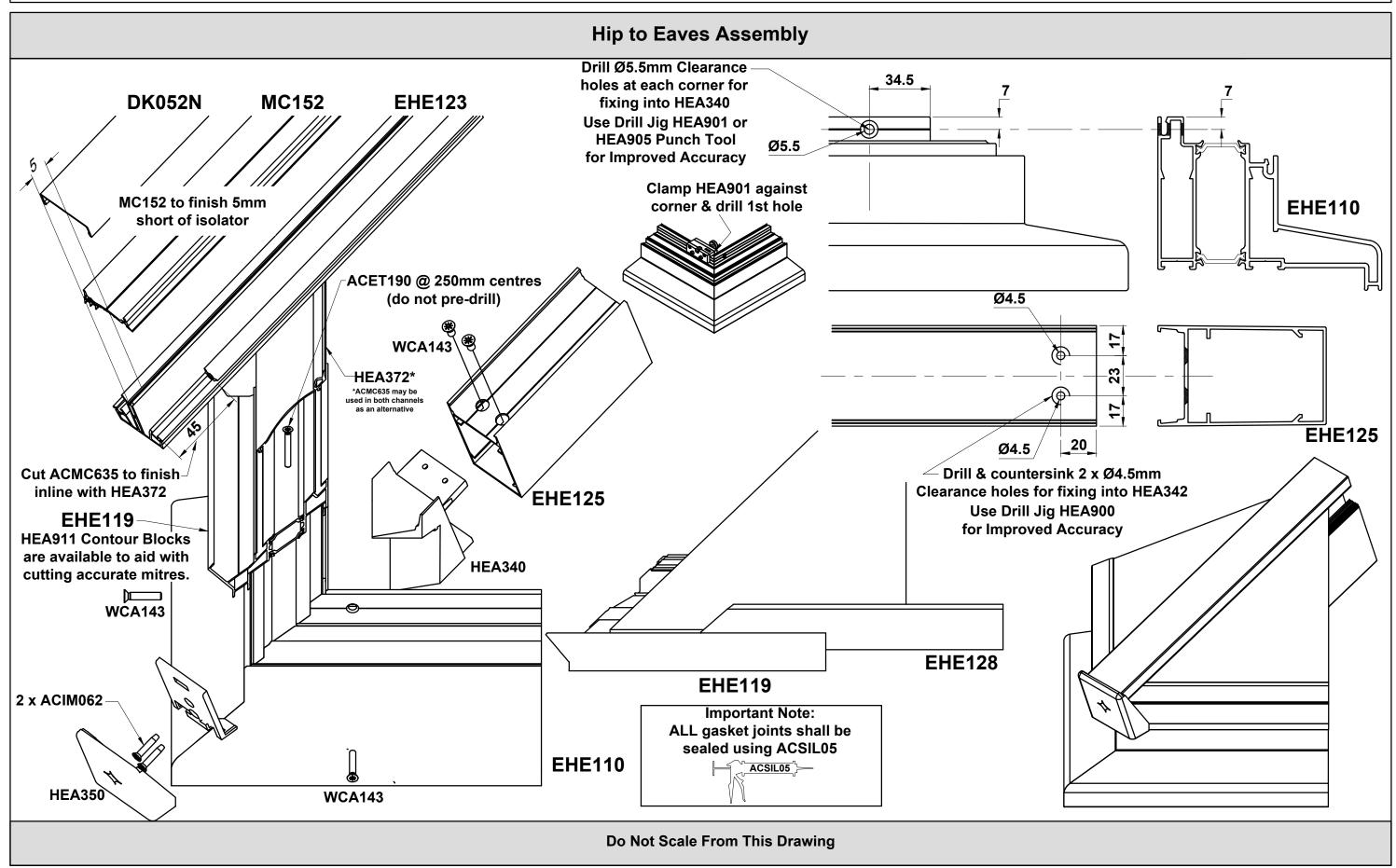




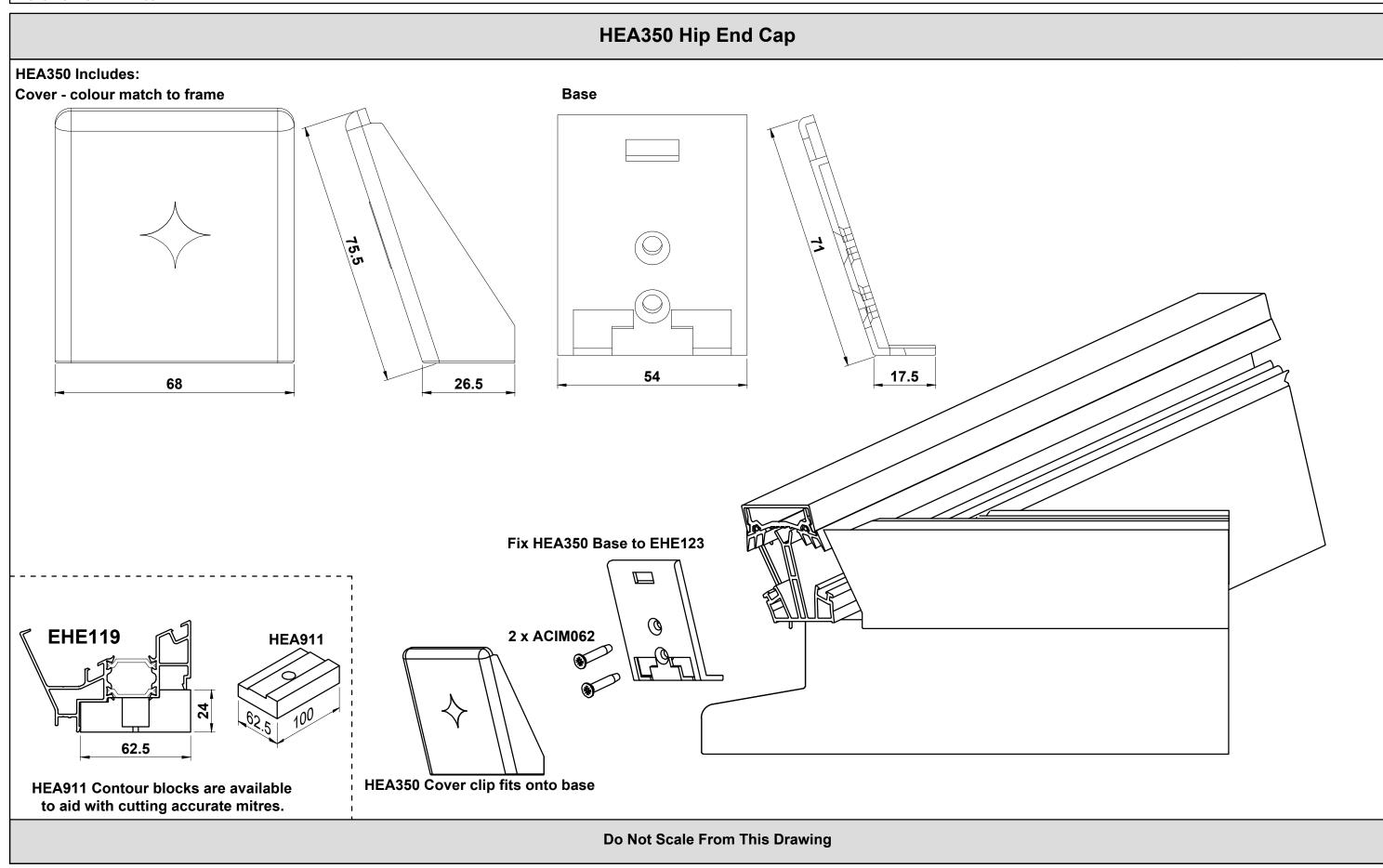
HEA905 Punch Tool HEA905 Punch Tool EHE128 Station 2 & 3 **EHE128 %3** 3°° **EHE120 EHE125** 5 Ø4.5 Ø4.5 **EHE128** 20 10 17 23 17 Countersink punched hole for M5 screw **EHE110 EHE110 EHE110 EHE120** Station 4 & 5 **EHE125 EHE125** Station 2 Station 1

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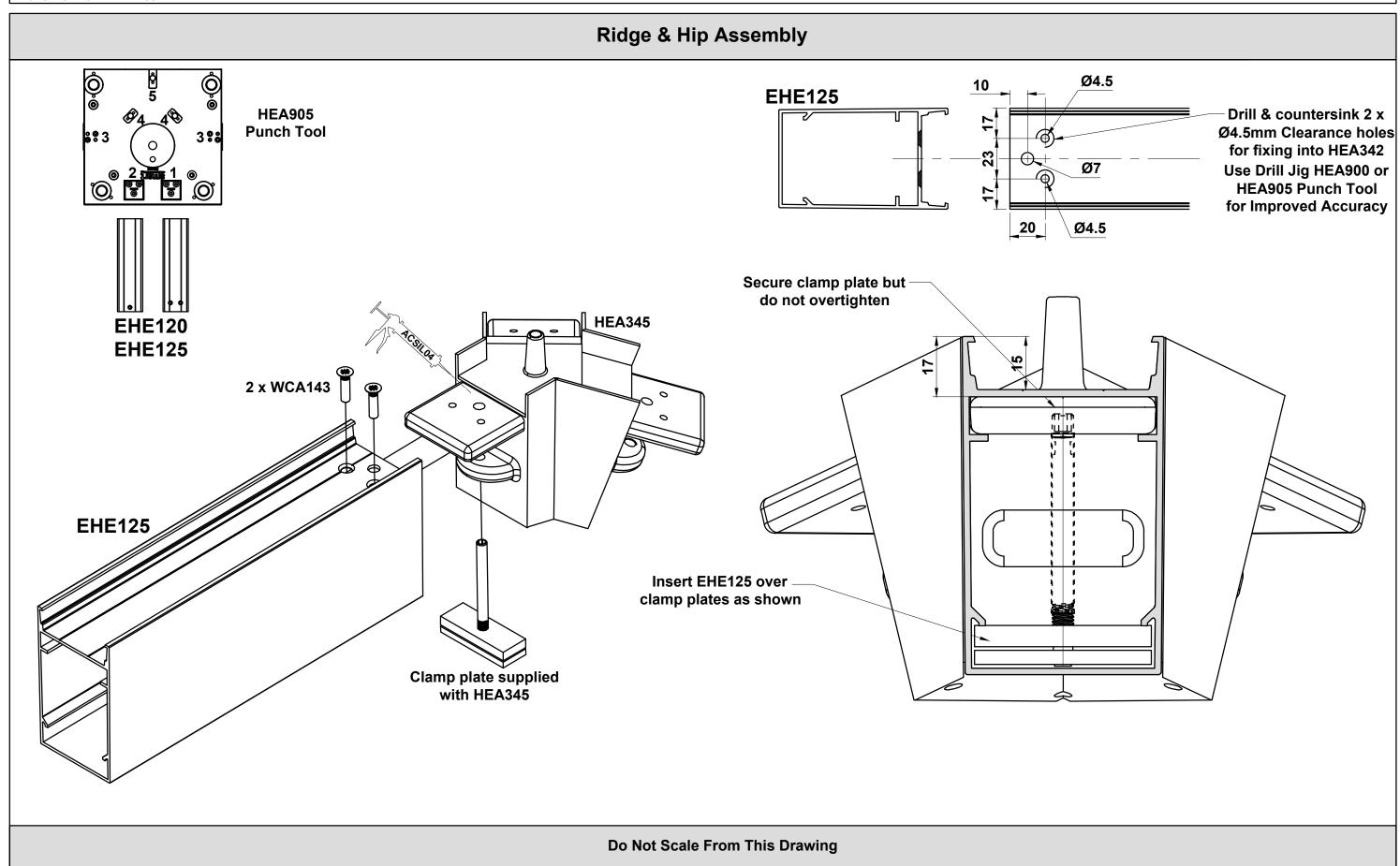


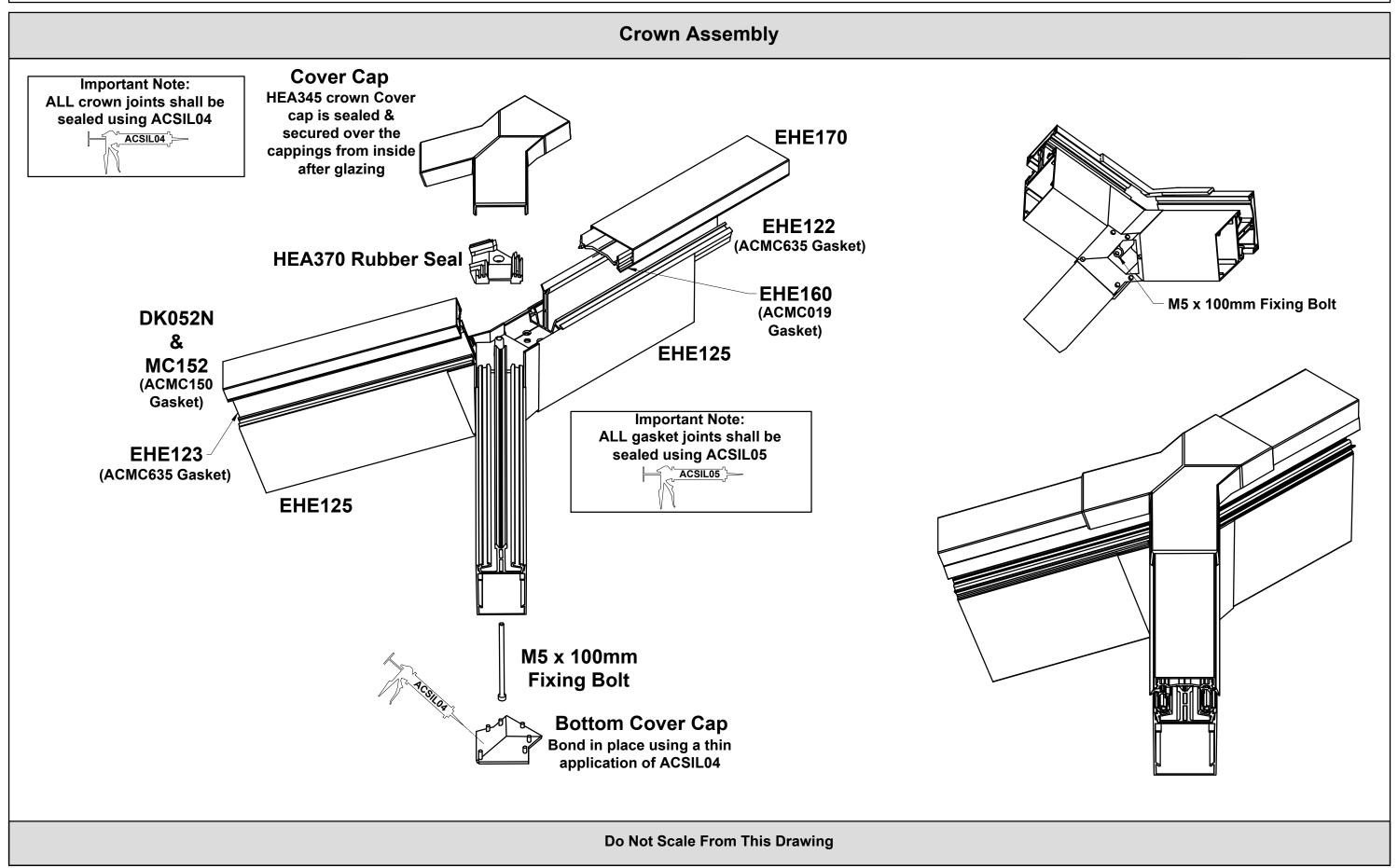




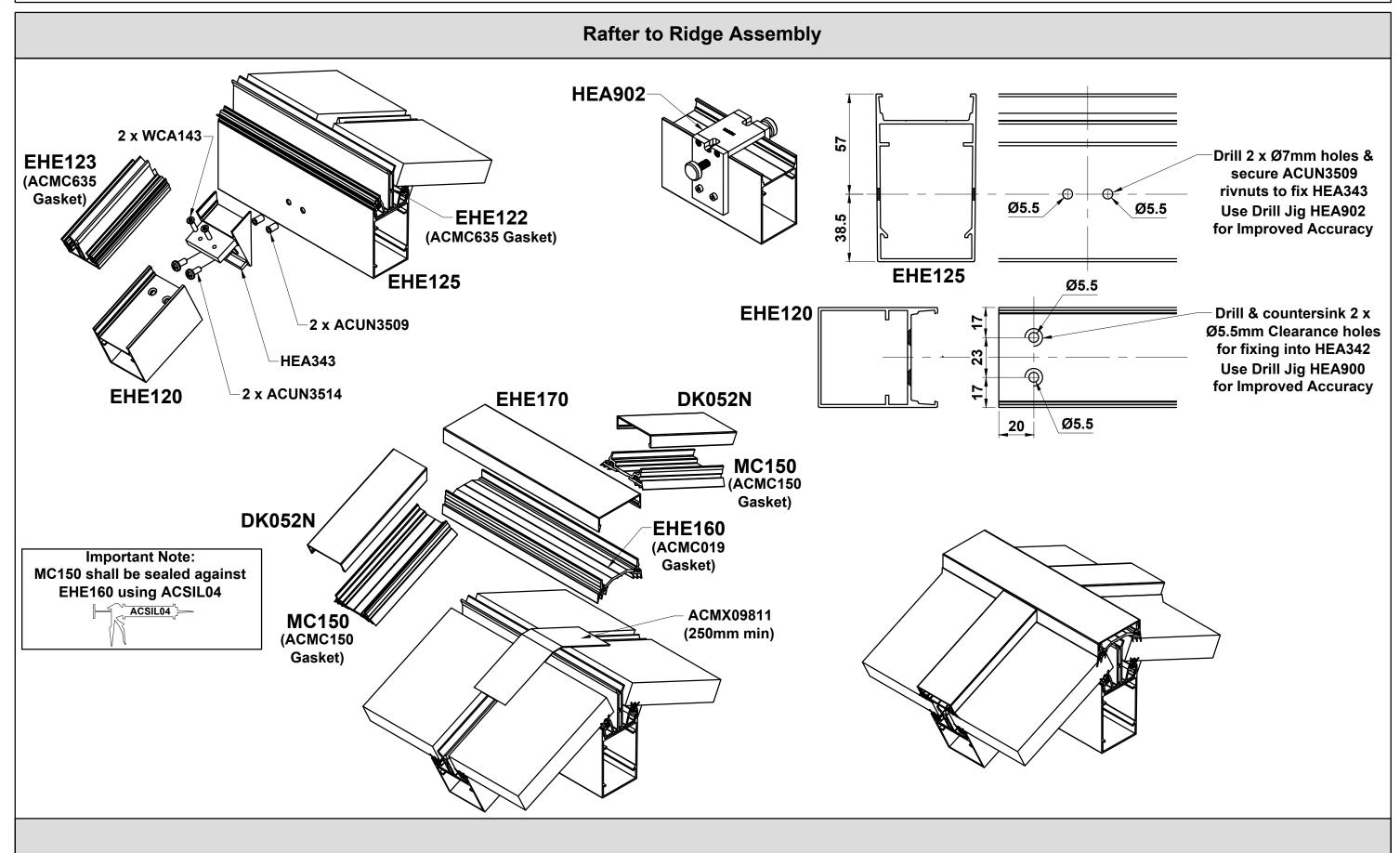


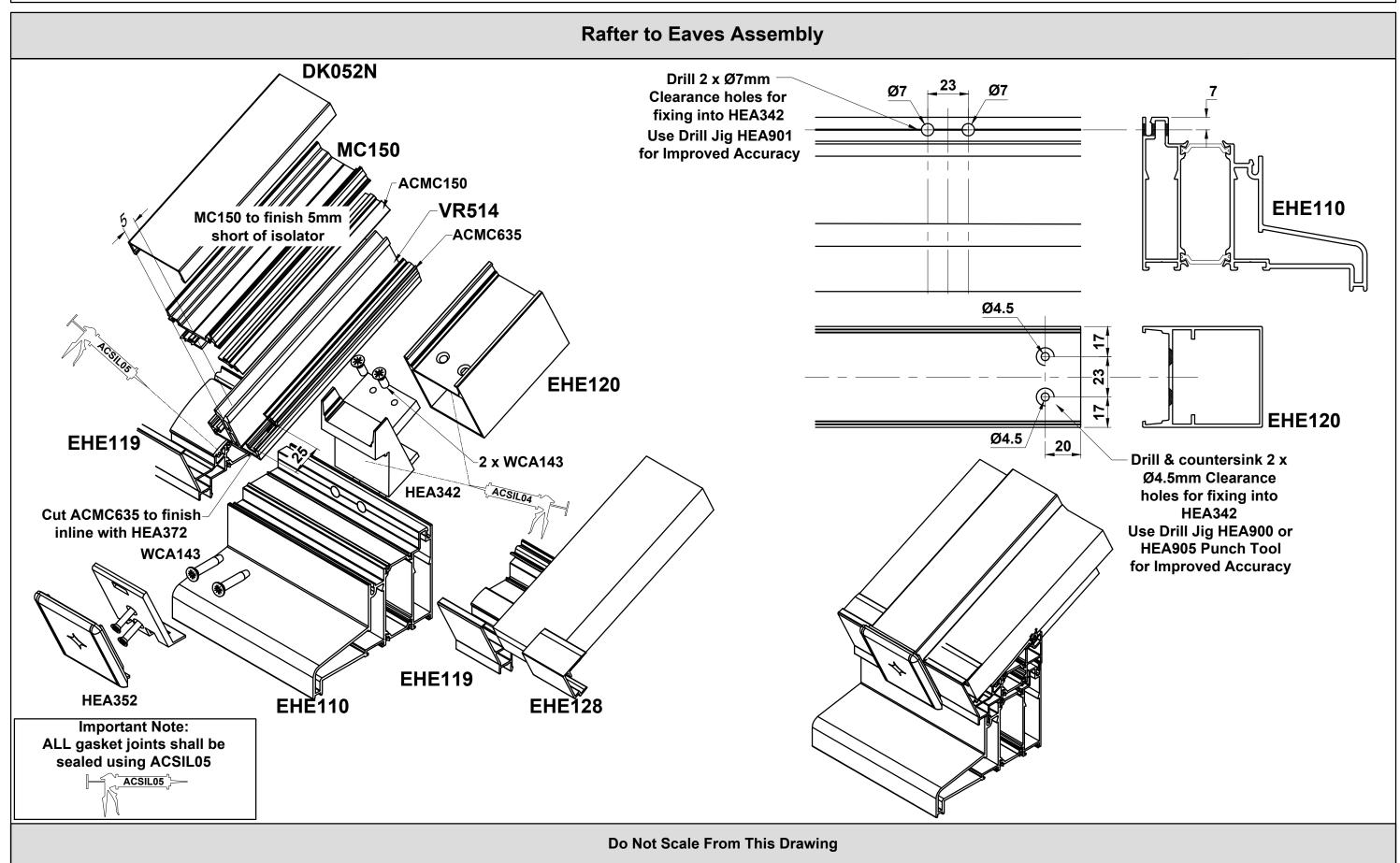




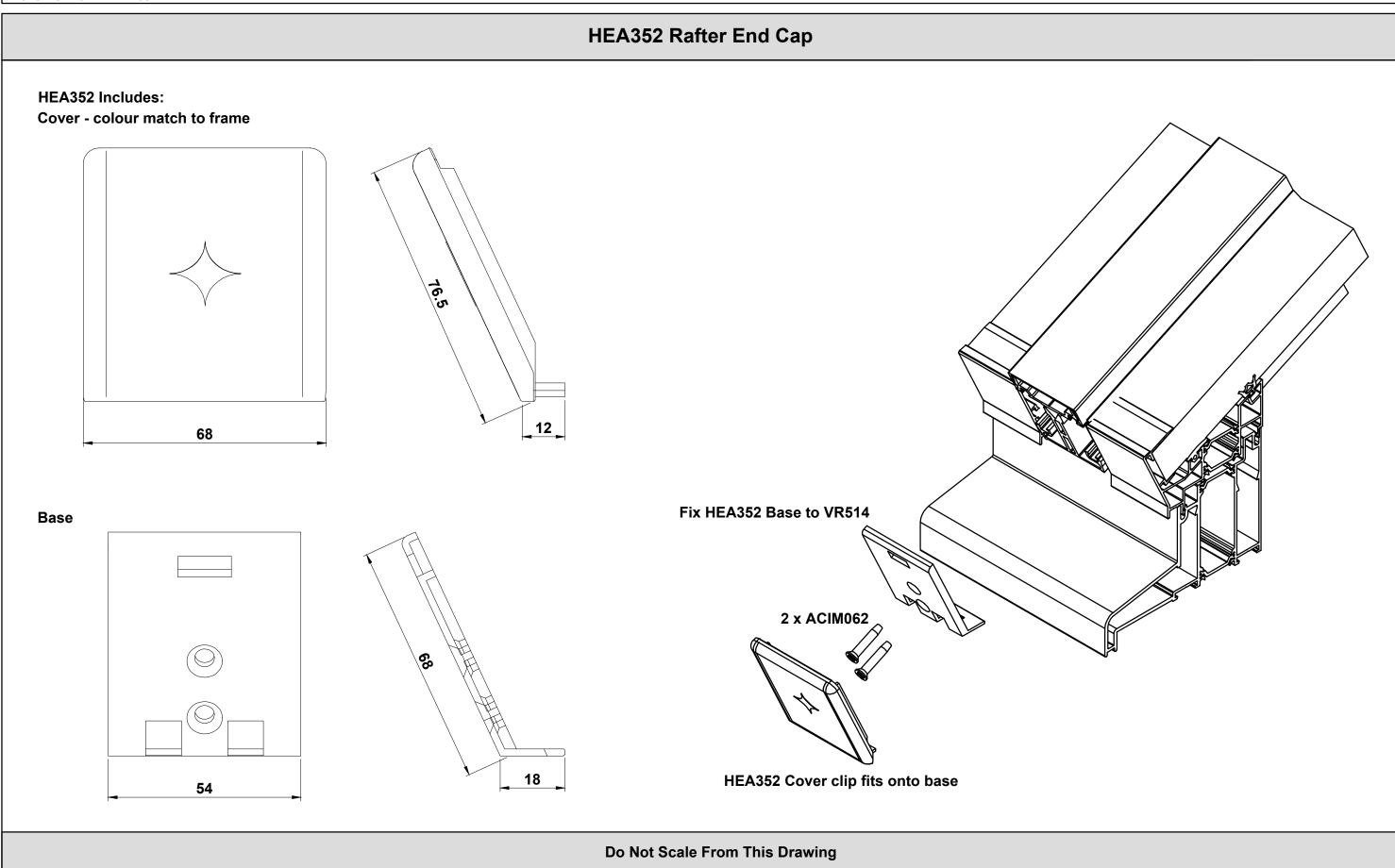




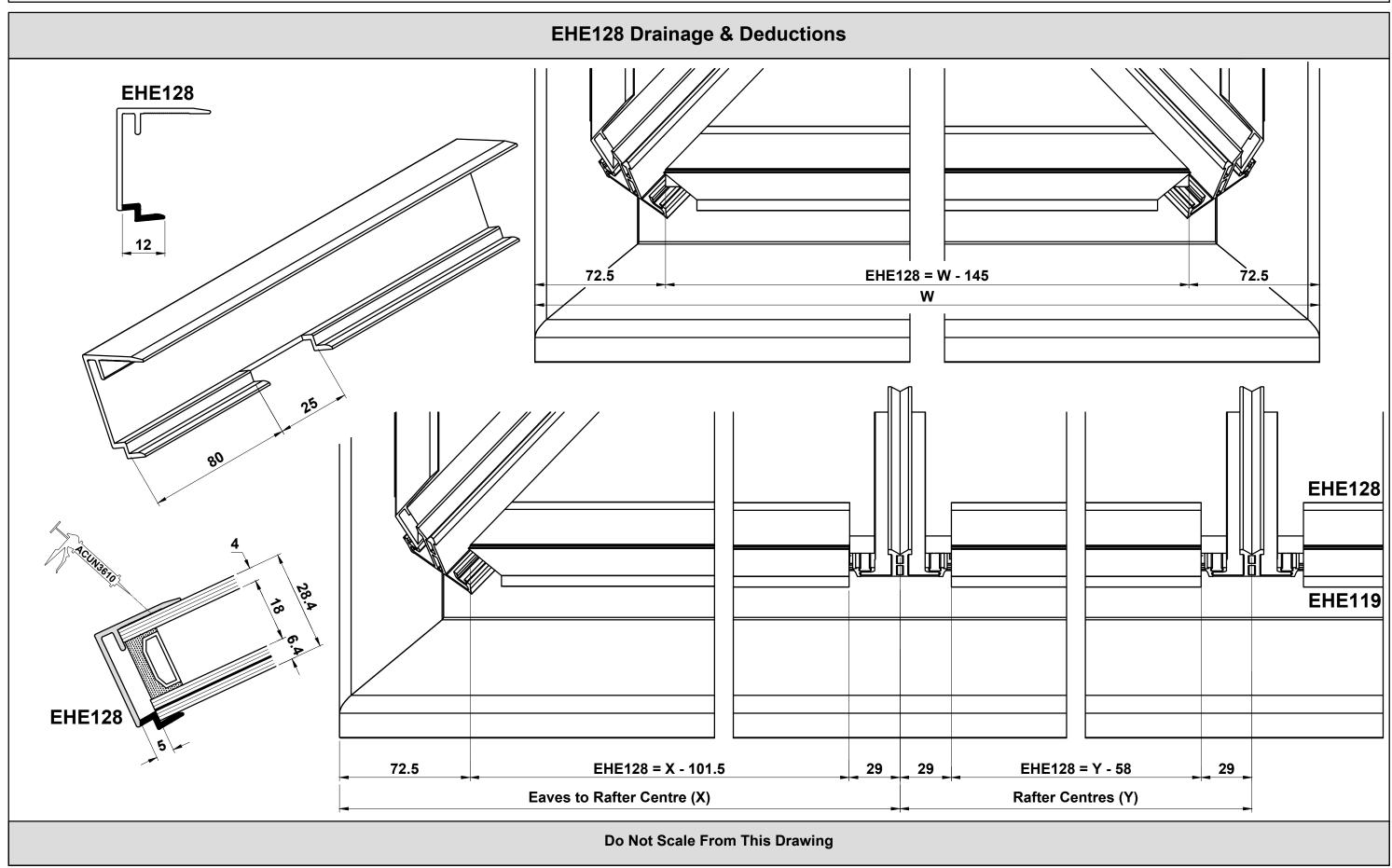




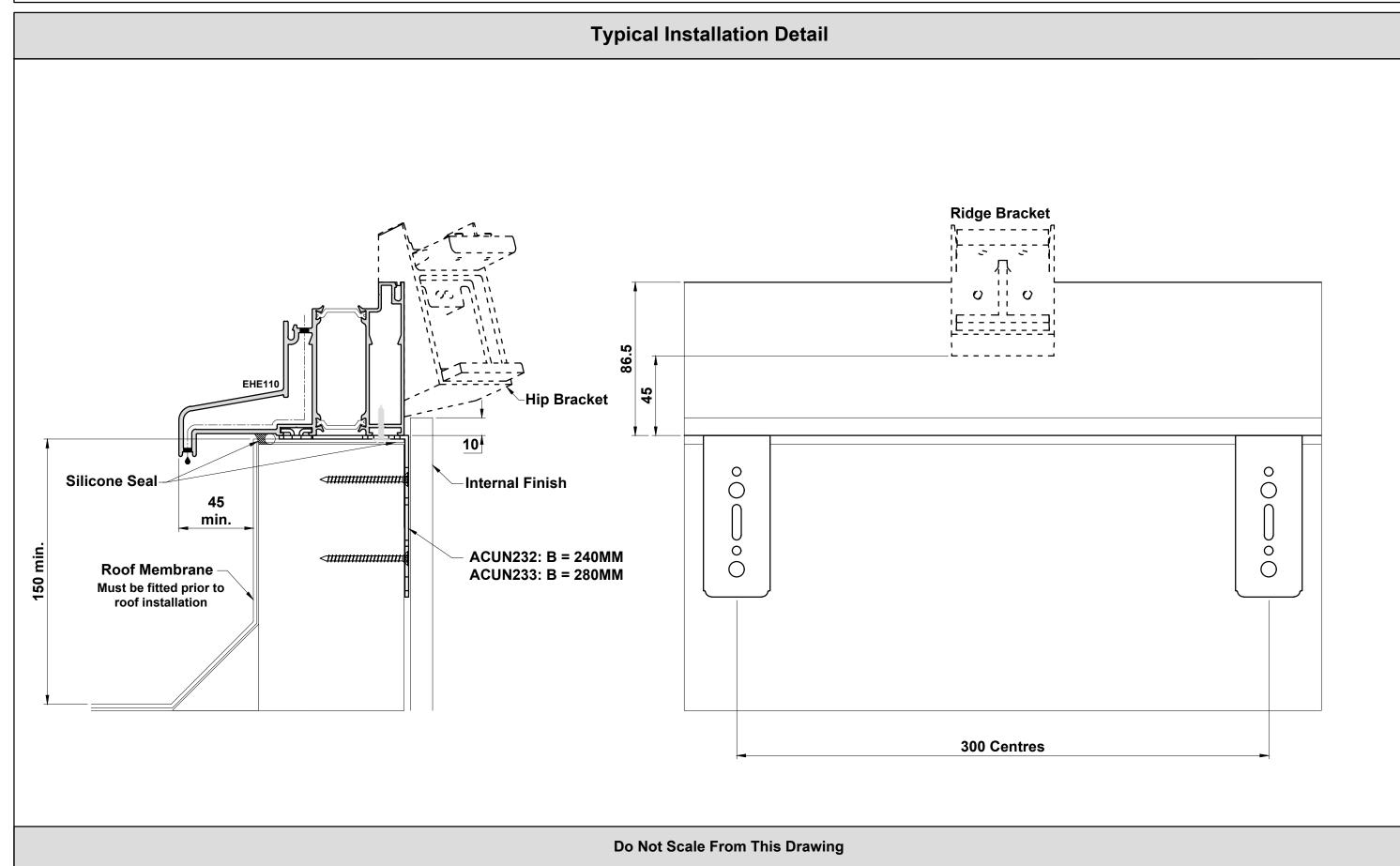












Installation Process



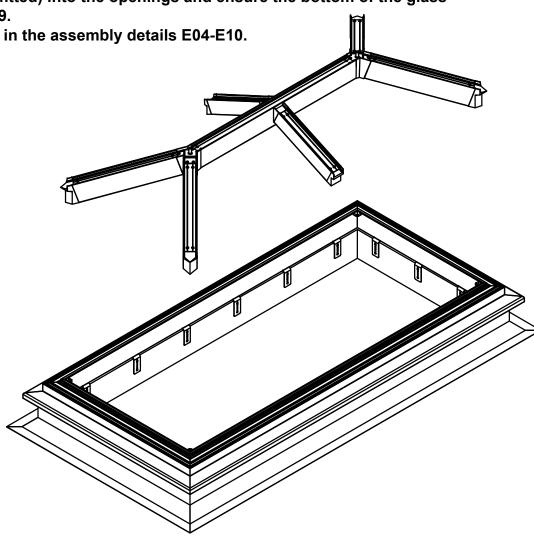
Please note that a minimum of 2 people are required for installation.

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

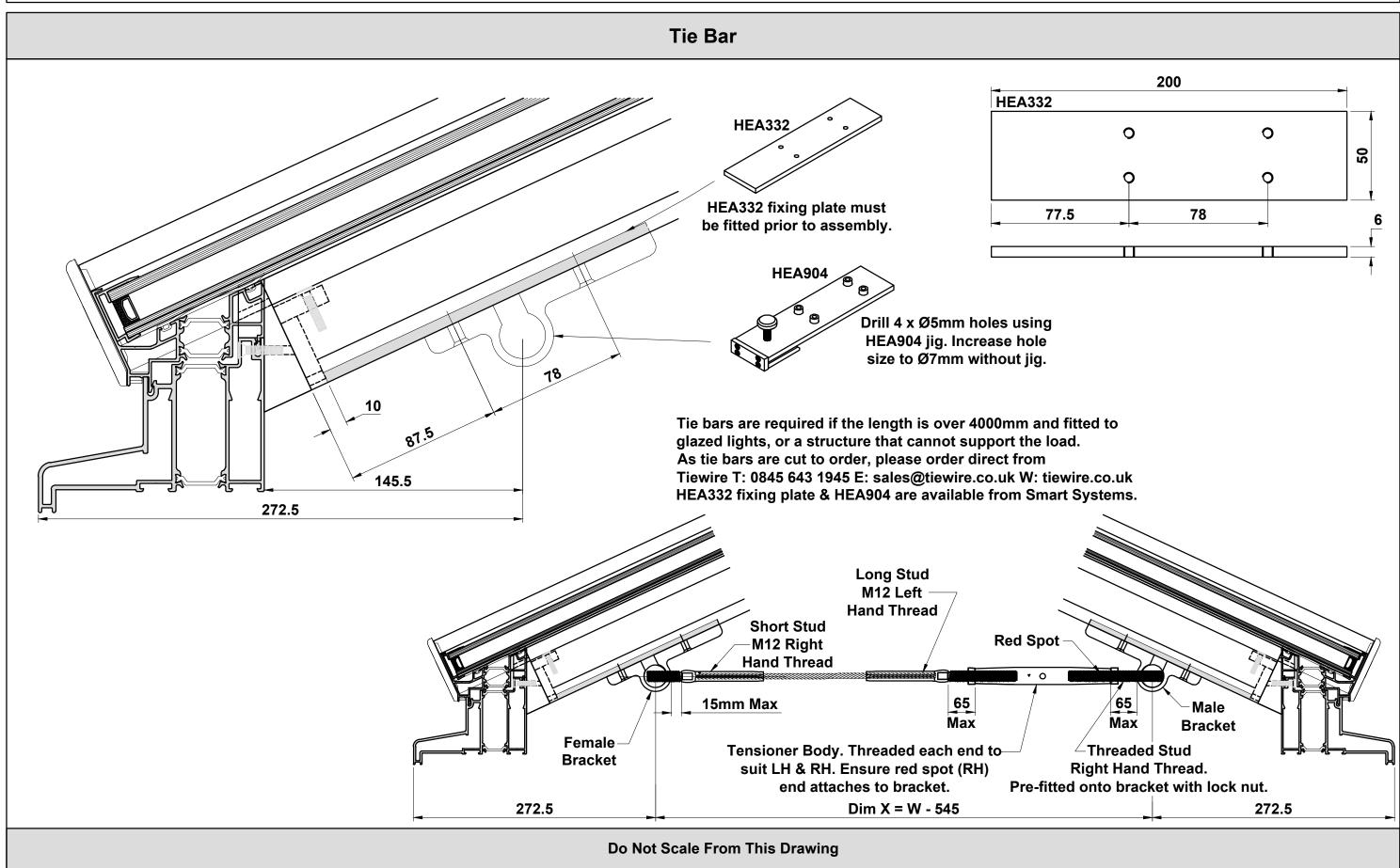
- 4. Lower the pre-fabricated ridge, hip & rafter assembly onto the eaves beam, seal and fix using WCA143 machine screws
- 5. Clip fit the EHE119 glass stop and seal against the hips & rafters



7. Glaze following the steps shown in the assembly details E04-E10.









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