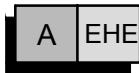


Main Index



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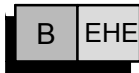


Profiles

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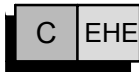
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Scale Profile Drawings..... A06 - A09



Accessories

Photos & Drawings..... B03 - B06



Sections

Scale Elevations..... C03 - C08



Statics..... D01 - D02



Construction Drawings

Corner Joint Details..... E03 - E04

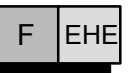
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Walk On Roof Assembly..... E06

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Typical Installation Details..... E08

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Fixed Rooflight..... F03

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Updates

DATE	PAGE	DESCRIPTION
27/01/20	All Sections	<p>Profiles: EHE202 Walk on outer frame added. EHE230 Mullion added. EHE256 PVC infill added. UTL049 20mm x 20mm box added.</p> <p>Accessories: ACPD908 Acrylic clear tape added. ACUN3616 Coil length amended. HEA208 EHE202 Cleat pack added. HEA209 UTL049 Cleat pack added. HEA210 EHE230 support block added. HEA211 EHE230 fixing bracket added. HEA213 EHE230 drill jig added. HEA214 EHE200 drill jig added. HEA290 Contour block added.</p>

Specification

GENERAL DESCRIPTION

The "Aliver Rooflight" roof system described in this manual is designed to offer a modern aluminium flat roof light with concealed fixings.

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

SIZE LIMITS

Rectangular Size Limits (without EHE230 Mullion)

Size limits will be set by third party glass supplier.

Rectangular Size Limits (with EHE230 Mullion) See page D02 for further detail.

Max Length: 6350mm

Max Width: 3000mm

PROFILE SPECIFICATION

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

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

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

GENERAL MANUFACTURING

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

The corners are joined using machine screws into extruded cleats through the mitred ends of the section.

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.

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

Specification

MANUFACTURING INFORMATION

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

Corners are formed by either drilling, using drill jig ACVG956, or punching, using punch tool HEA912, 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 (sealer requires a minimum of 48 hours to cure). After screwing the corner joint, special care should be taken to ensure any excess sealer is removed from painted surfaces.

INSTALLATION INFORMATION

The Rooflight shall be fitted to a kerb with a minimum height of 150mm above the finished surface. The overall external dimensions of the kerb must be measured, including the finishes, to establish the overall dimensions of the rooflight.

The rooflight is sealed and fitted on top of the finished kerb and secured using fixing lugs or direct fixing as shown in section E of this manual.

To aid water run-off, we recommend installing the rooflight at a minimum pitch of 5°.

Aliver Rooflight U Values

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

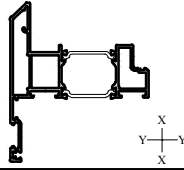
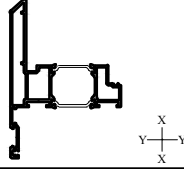
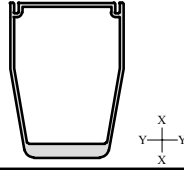
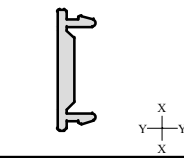
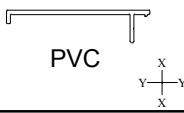
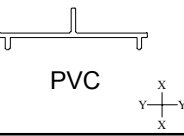
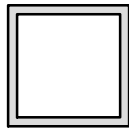
GLAZING

Rooflight glazing must comply with the standards set by BS EN 1991-1-1 & CWCT TN61-TN69 depending on the roof light application and requirements. Please liaise with your glass supplier for specification.

We recommend a 75mm border around the perimeter of the units to mask the frame from the outside.

The glass is to be bonded using ACUN3610 high quality single component adhesive applied in the workshop at least a day prior to installation. Please refer to the glazing pages in the manual for full instructions.

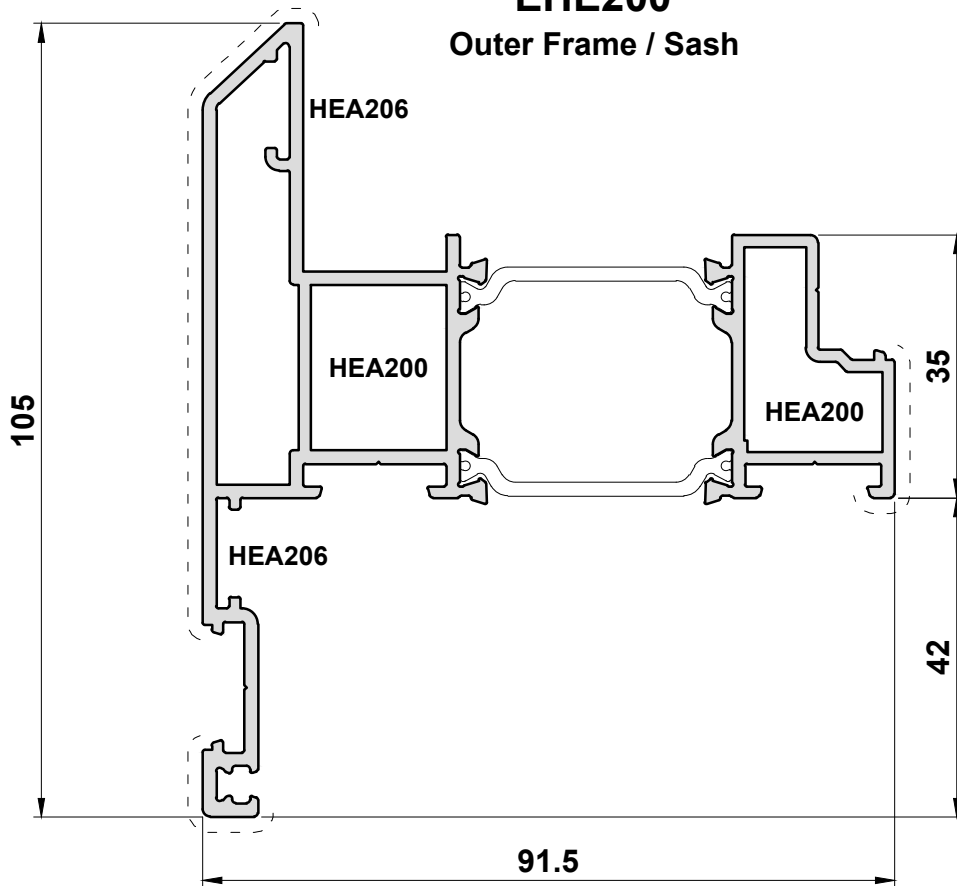
PROFILES : TECHNICAL INFORMATION

Number	Picture	Page	Perim. mm	Mec. mm	lx(cm4) wx(cm3)	ly(cm4) wy(cm3)	Length	Pack pr.	MF	SA	KL	HP	M
EHE200		A06	487	125	40.17 — 7.06	71.2 — 23.04	6.5	-	✓	✓	✓	✓	✓
EHE202		A07	583	149	75.45 — 11.28	76.5 — 27.13	6.5	-	✓	✓	✓	✓	✓
EHE230		A10	286	207	75.09 — 15.36	31.62 — 10.54	6.5	-	✓	✓	✓	✓	✓
EHE250		A06	50	16	- — -	- — -	4.0	-	✓	✓	✓	✓	
EHE255		A06	189	-	- — -	- — -	5.0	-	✓				
EHE256		A10	161	-	- — -	- — -	5.0	-	✓				
UTL049		A06	64	64	- — -	- — -	6.0	-	✓	✓	✓	✓	
									A = Outside B = Inside	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour M = Dual Colour			

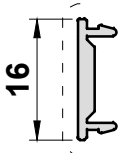
Primary Visible Side

Secondary Visible Side

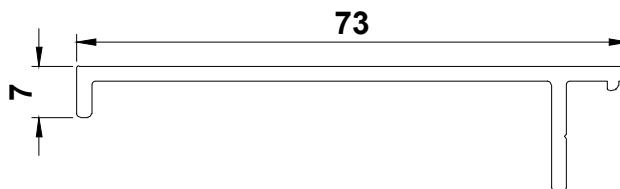
EHE200 Outer Frame / Sash



EHE250 Aluminium Infill



EHE255 PVC Glass Support

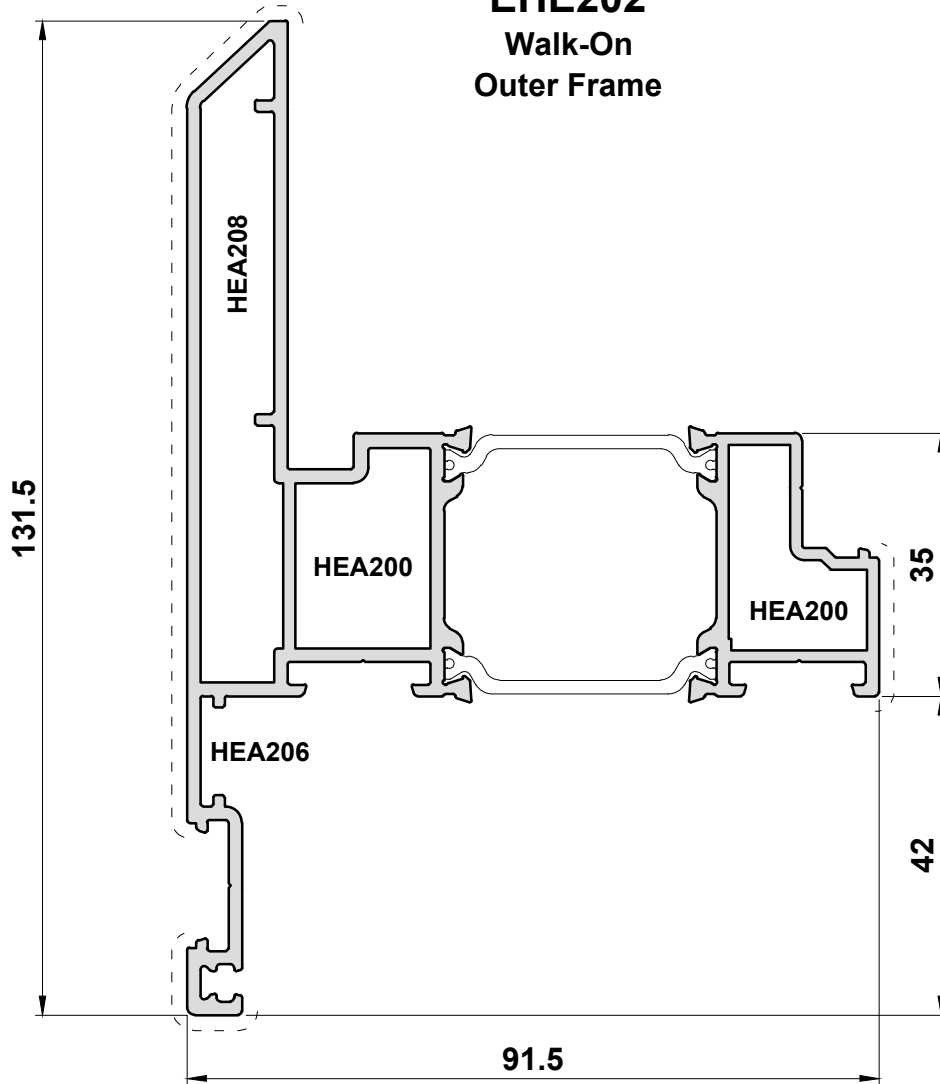


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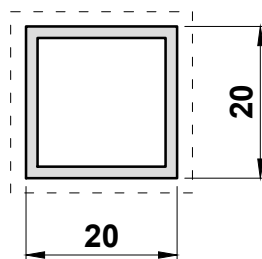
Primary Visible Side

Secondary Visible Side

EHE202 Walk-On Outer Frame



UTL049 20mm x 20mm Section

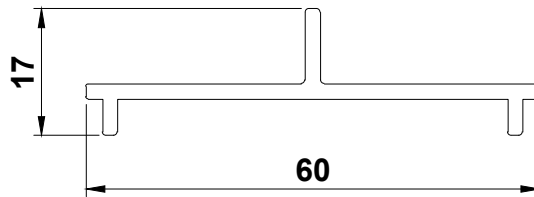


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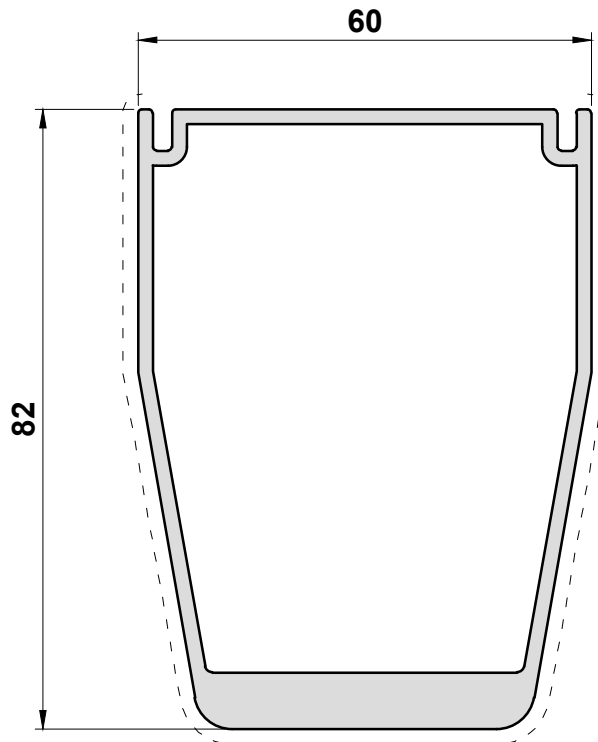
Primary Visible Side

Secondary Visible Side

EHE256
EHE230 PVC
Glass Support



EHE230
Intermediate
Mullion

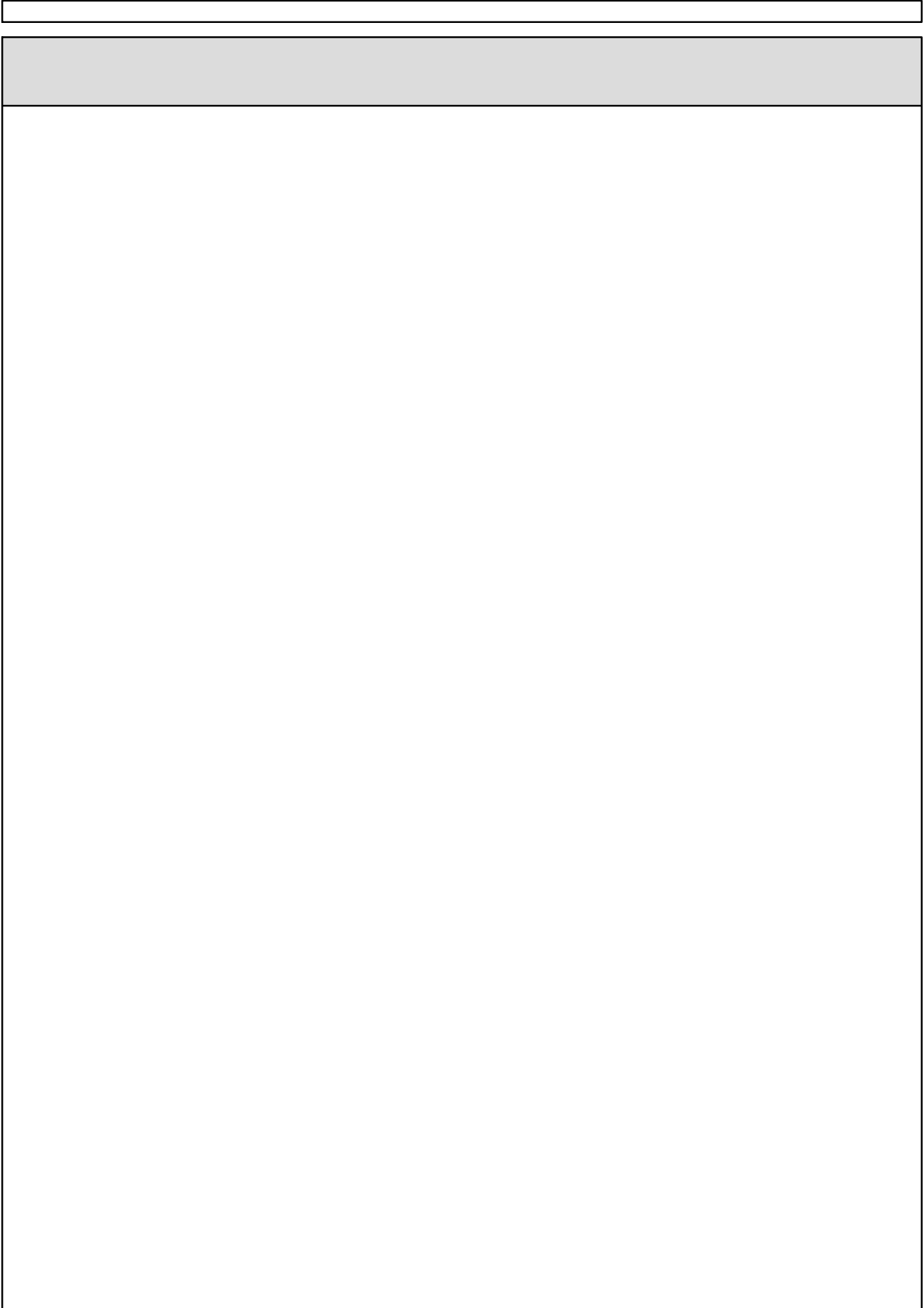


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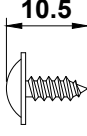
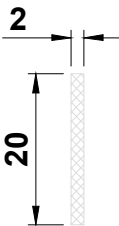
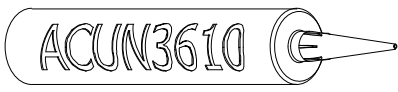

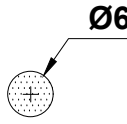

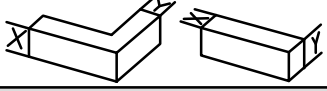
Section B

Accessories

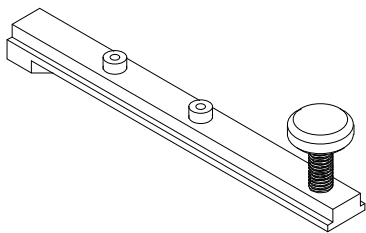
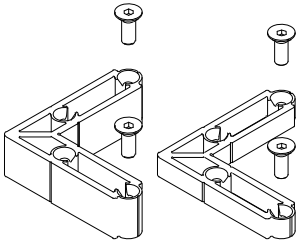
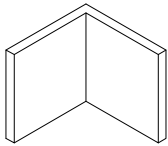
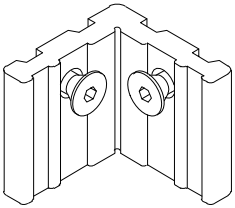
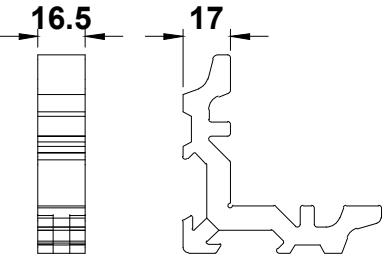


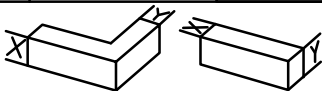
Photos & Drawings



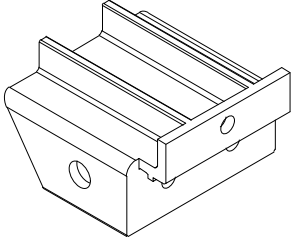
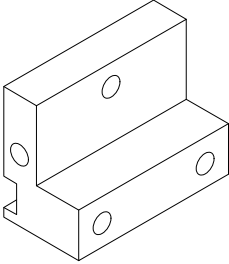
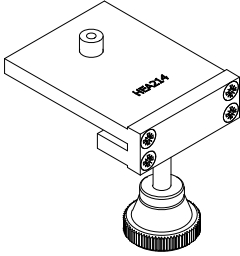
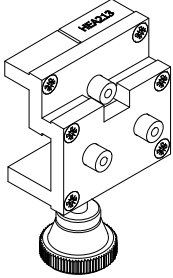
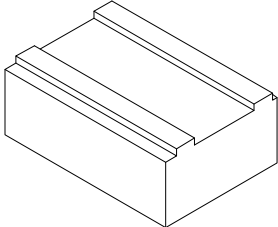


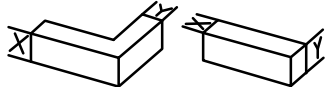
ACCESSORIES : PHOTOS & DRAWINGS

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	ACPD908 2mm x 20mm Acrylic Clear Tape	16.5	m	UTL049	<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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	ACUN3616 ACUN3610 Backing Rod	20	m	EHE200 ACUN3610	<table border="1"> <tr><td>MF</td><td></td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF		SA		KL		HP		SSC		SMC		W		Z		PC	
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 <p>T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm</p> <p>Screw (Grub)</p>	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	W = White Z = Black																					

ACCESSORIES : PHOTOS & DRAWINGS

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	HEA200 Cleat Pack Contains: Outside Cleat x 4 Inside Cleat x 4 Screws x 16	1	pack	EHE200	<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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	HEA206 Corner Chevron	8	pack	EHE200	<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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	HEA208 Cleat Pack Contains: Cleat x 4 Screws x 8	1	pack	EHE202	<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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	HEA209 Cleat Pack Contains: Cleat x 4 Mechanical Blocks x 8	4	pack	UTL049	<table border="1"> <tr><td>MF</td><td>✓</td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <tr><td>W</td><td></td></tr> <tr><td>Z</td><td></td></tr> <tr><td>PC</td><td></td></tr> </table>	MF	✓	SA		KL		HP		SSC		SMC		W		Z		PC	
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ACCESSORIES : PHOTOS & DRAWINGS

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					PC <input type="checkbox"/>
	HEA211 EHE230 Fixing Bracket	2	pack	EHE200 EHE230 HEA210	MF <input checked="" 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"/>
	HEA213 EHE230 Drill Jig	1	each	EHE230	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"/>
	HEA214 EHE200 Drill Jig	1	each	EHE200	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"/>
	HEA290 Contour Block	1	pair	EHE200 EHE202	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"/>
 <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		

ACCESSORIES : PHOTOS & DRAWINGS

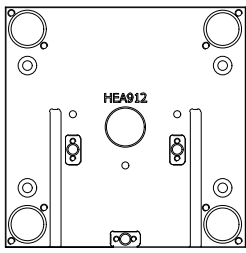



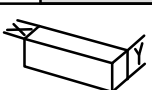







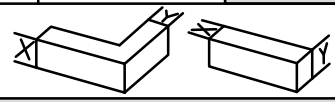
Image	Part Code	Pack	Unit	Application	Colour
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PC <input type="checkbox"/>					
 <p>T-BARS ACVG65=2.5mm ACVG66=3.0mm ACVL150=4.0mm</p>  <p>Screw (Grub)</p>	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome	W = White Z = Black	 		

Image	Part Code	Pack	Unit	Application	Colour																		
	ACMX09700 Alu. Polish	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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	ACMX09761 Maxi Gloss	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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	ACMX09762 Alu. Bright	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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	ACMX09763 Teflon Spray	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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	ACMX09764 Maxi Clean	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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STANDARD ACCESSORIES

Image	Part Code	Pack	Unit	Application	Colour
	ACMX09765 Alu. Cleaner	1	each		MF SA KL HP SSC SMC W Z PC
	ACMX09770 Roll & Wrap 100mm	1	each		MF SA KL HP SSC SMC W Z PC
	ACMX09775 Grip Handwrap	1	each		MF SA KL HP SSC SMC W Z PC
	ACMX09801 Protective Tape 50mm	1	each		MF SA KL HP SSC SMC W Z PC
	ACMX09802 Protective Tape 70mm	1	each		MF SA KL HP SSC SMC W Z PC
 <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>			








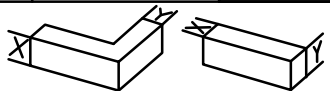



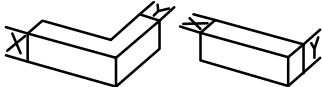
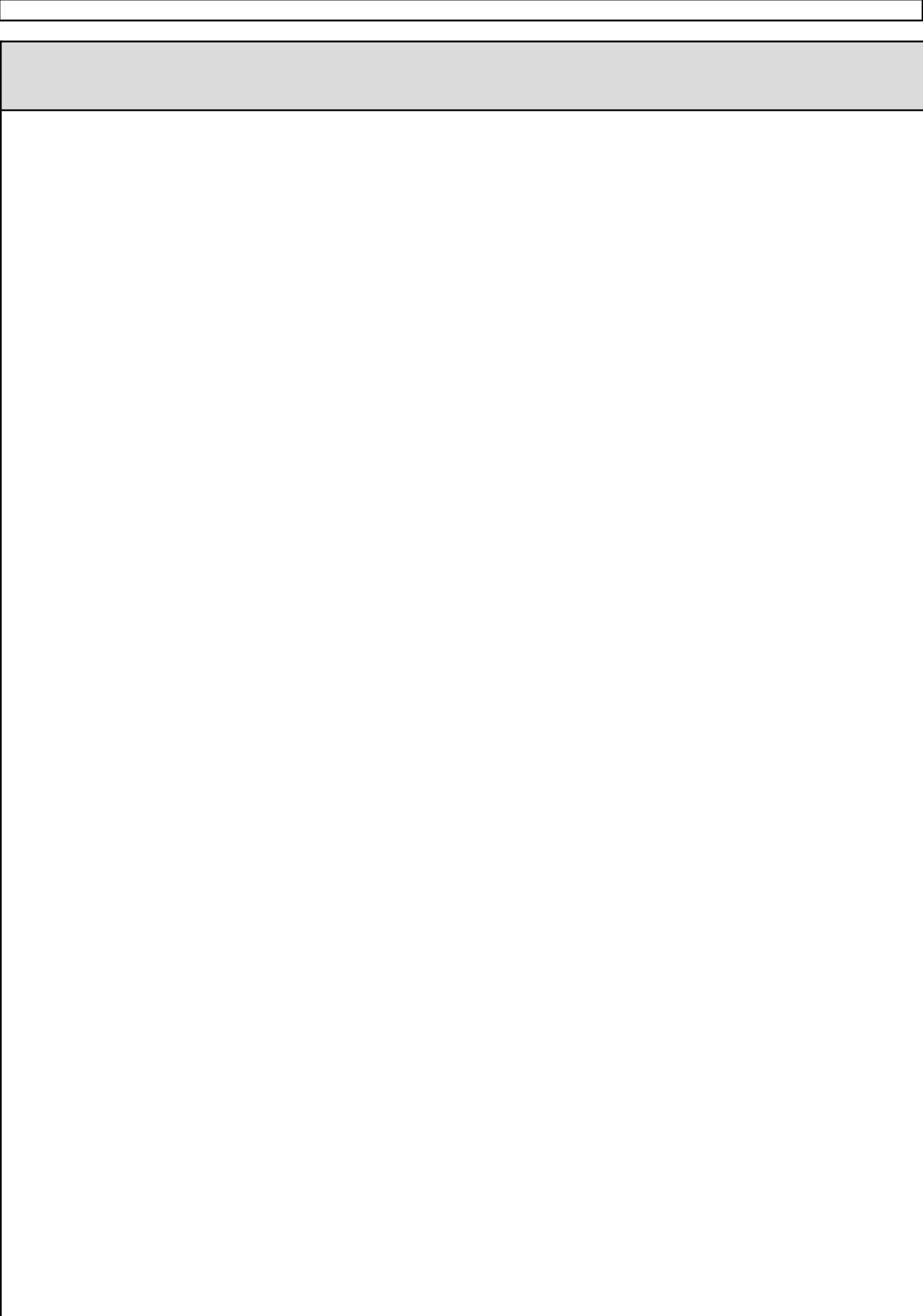
Image	Part Code	Pack	Unit	Application	Colour																		
	ACMX09803 Protective Tape 100mm	1	each		<table border="1"> <tr><td>MF</td><td></td></tr> <tr><td>SA</td><td></td></tr> <tr><td>KL</td><td></td></tr> <tr><td>HP</td><td></td></tr> <tr><td>SSC</td><td></td></tr> <tr><td>SMC</td><td></td></tr> <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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HP																							
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	ACMX09830 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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PC																							
	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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SSC																							
SMC																							
W	✓																						
Z	✓																						
PC																							
	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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	ACSIL013 Glue for Mitre	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 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
	ACSIL014 Anti-Corrosion Coating	1	each		MF <input checked="" type="checkbox"/>
					SA <input type="checkbox"/>
					KL <input type="checkbox"/>
					HP <input type="checkbox"/>
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					SMC <input type="checkbox"/>
					W <input type="checkbox"/>
					Z <input type="checkbox"/>
					PC <input type="checkbox"/>
	ACUN3900 Gasket Roller	1	each		MF <input type="checkbox"/>
					SA <input type="checkbox"/>
					KL <input type="checkbox"/>
					HP <input type="checkbox"/>
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					Z <input type="checkbox"/>
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					HP <input type="checkbox"/>
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					SMC <input type="checkbox"/>
					W <input type="checkbox"/>
					Z <input type="checkbox"/>
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	MF = Mill Finish SA = Silver Anodised KL = Basic Colour HP = Special Colour SSC = Smooth Satin Chrome SMC = Smokey Chrome PC = Polished Chrome				W = White Z = Black
					

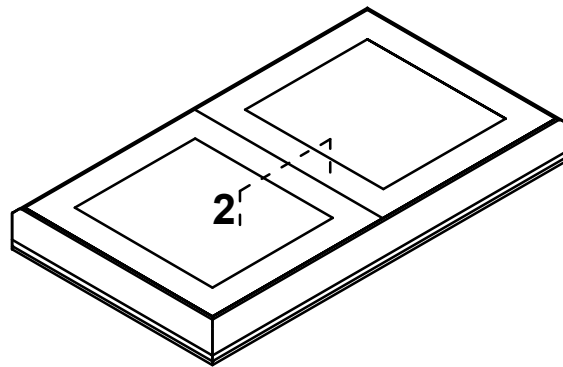
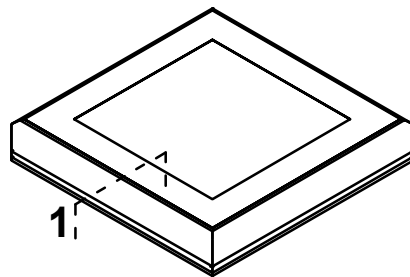
Section C

Sections

Scale Elevations

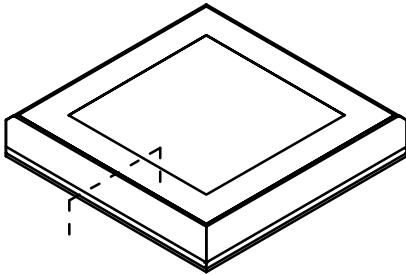


Sections

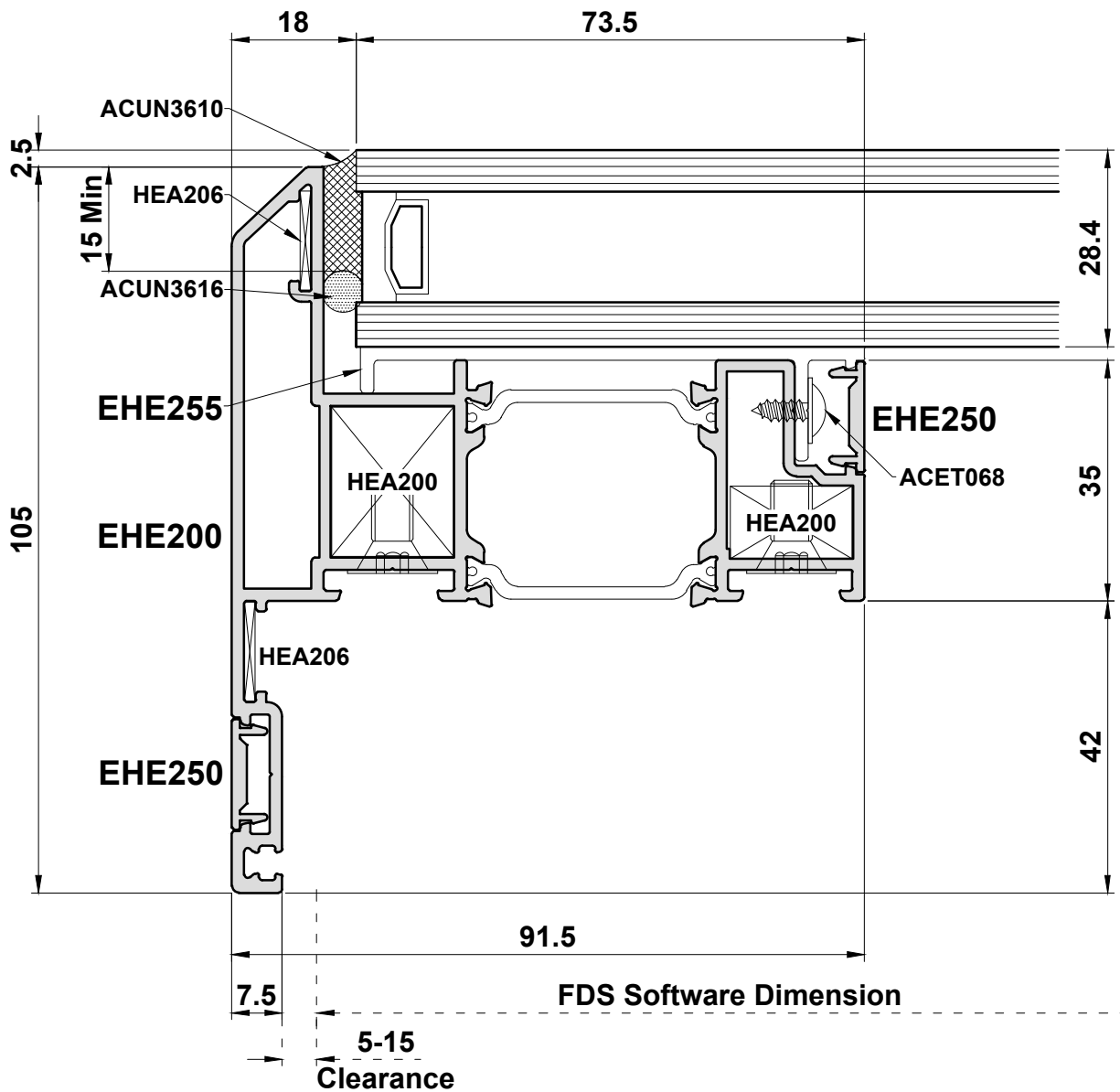


Do Not Scale From This Drawing

Detail 1A

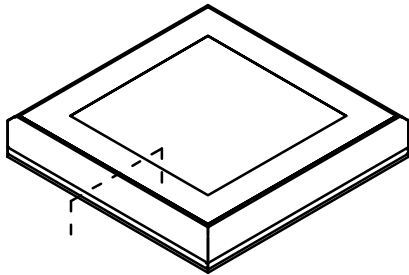


Note: A minimum of 15mm depth of ACUN3610 shall be used sealing glass to outer frame.

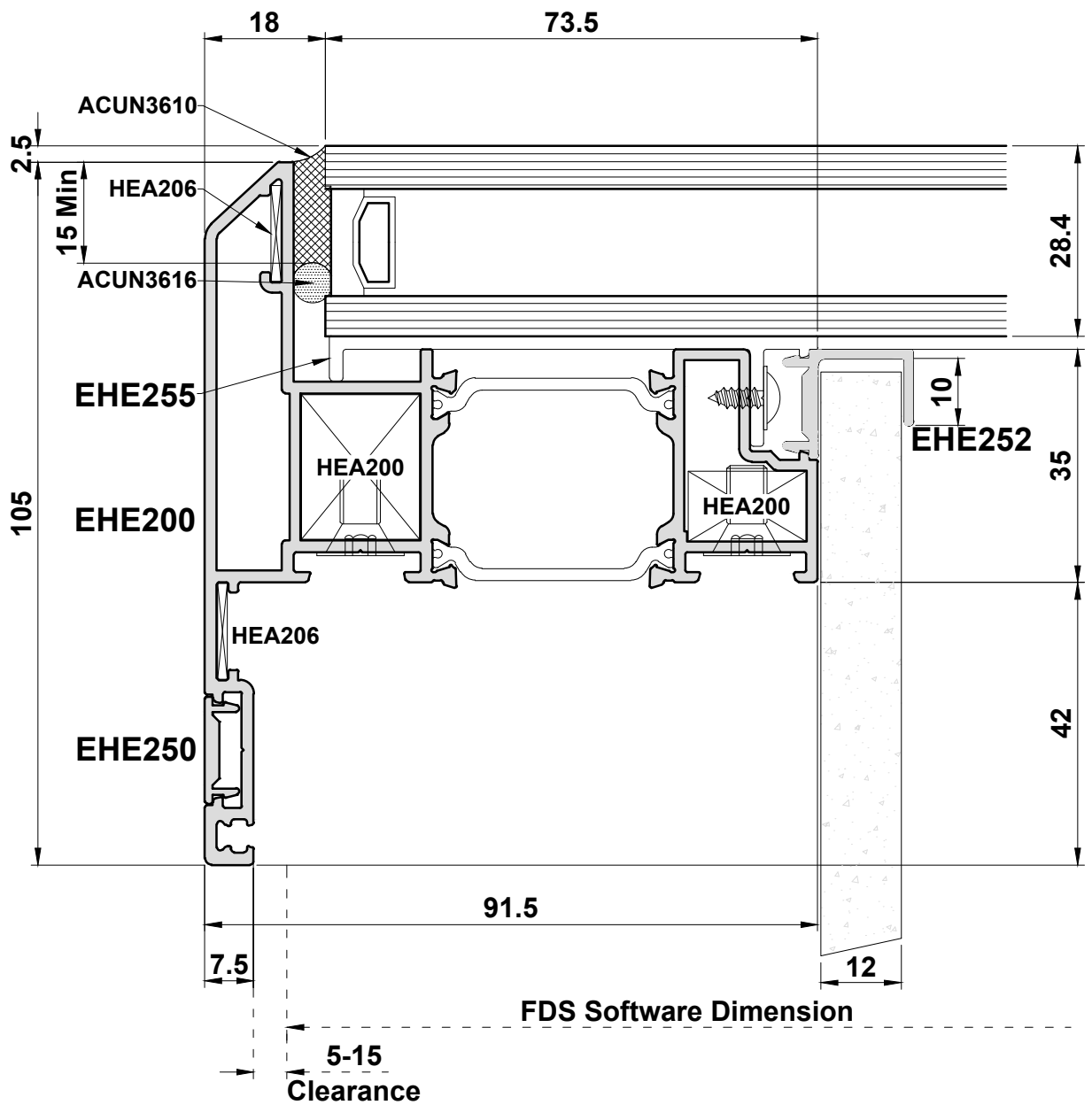


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Detail 1B

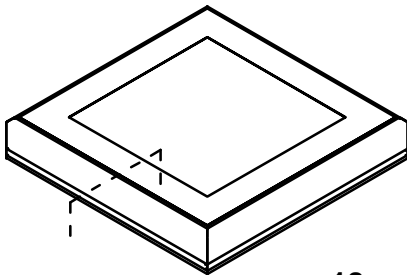


Note: A minimum of 15mm depth of ACUN3610 shall be used sealing glass to outer frame.

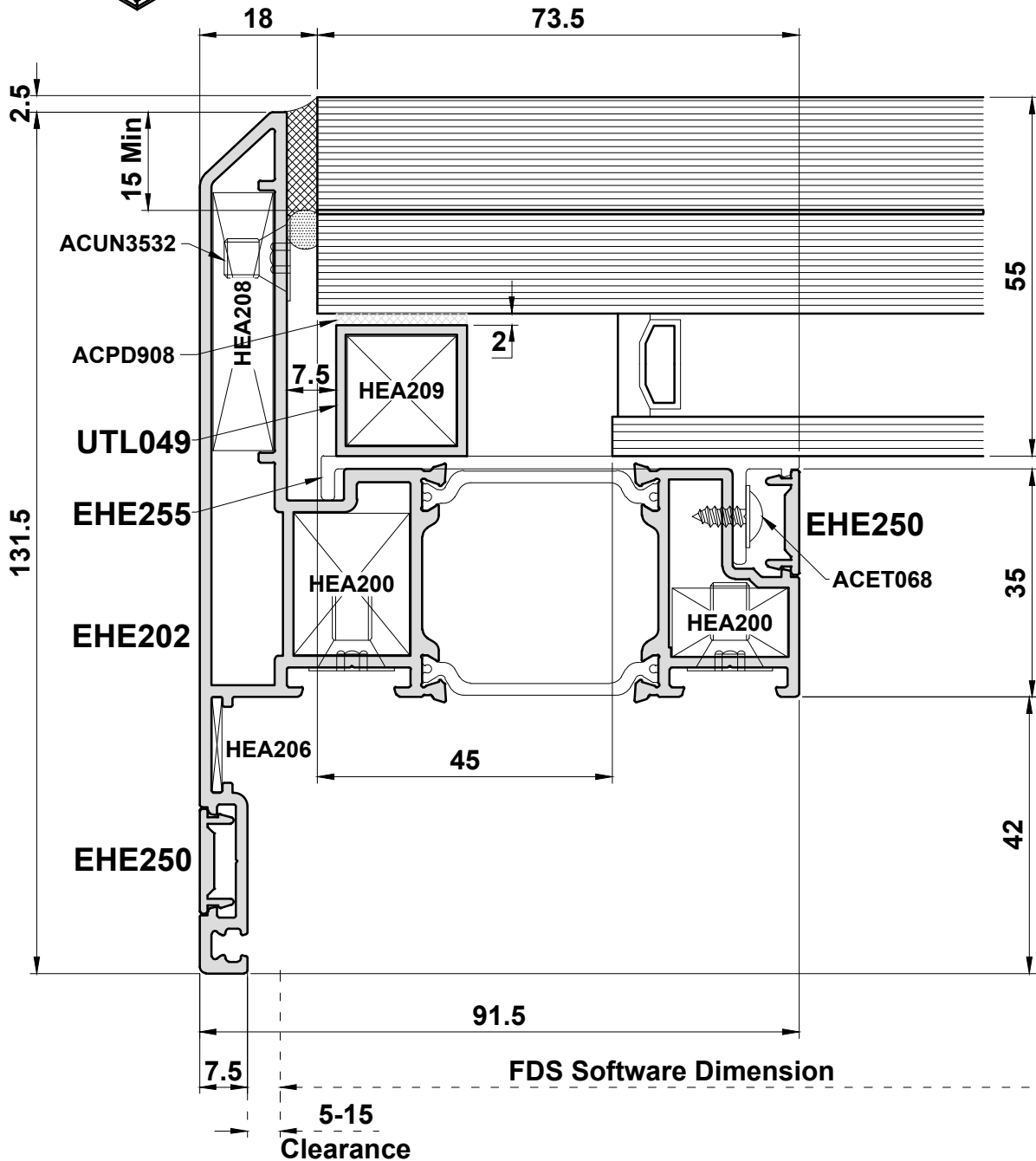


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Detail 1C

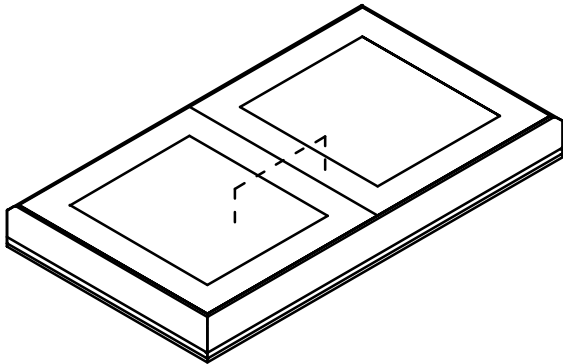


Note: A minimum of 15mm depth of ACUN3610 shall be used sealing glass to outer frame.

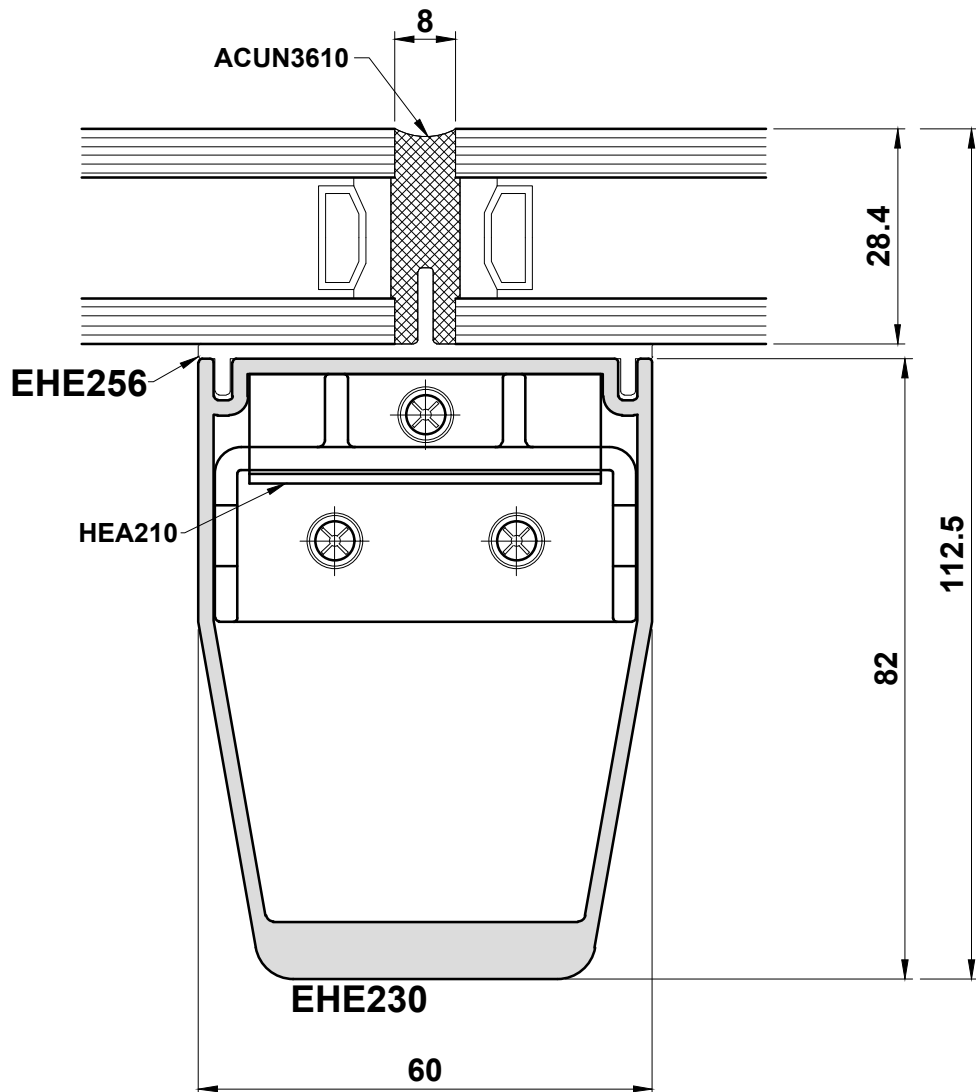


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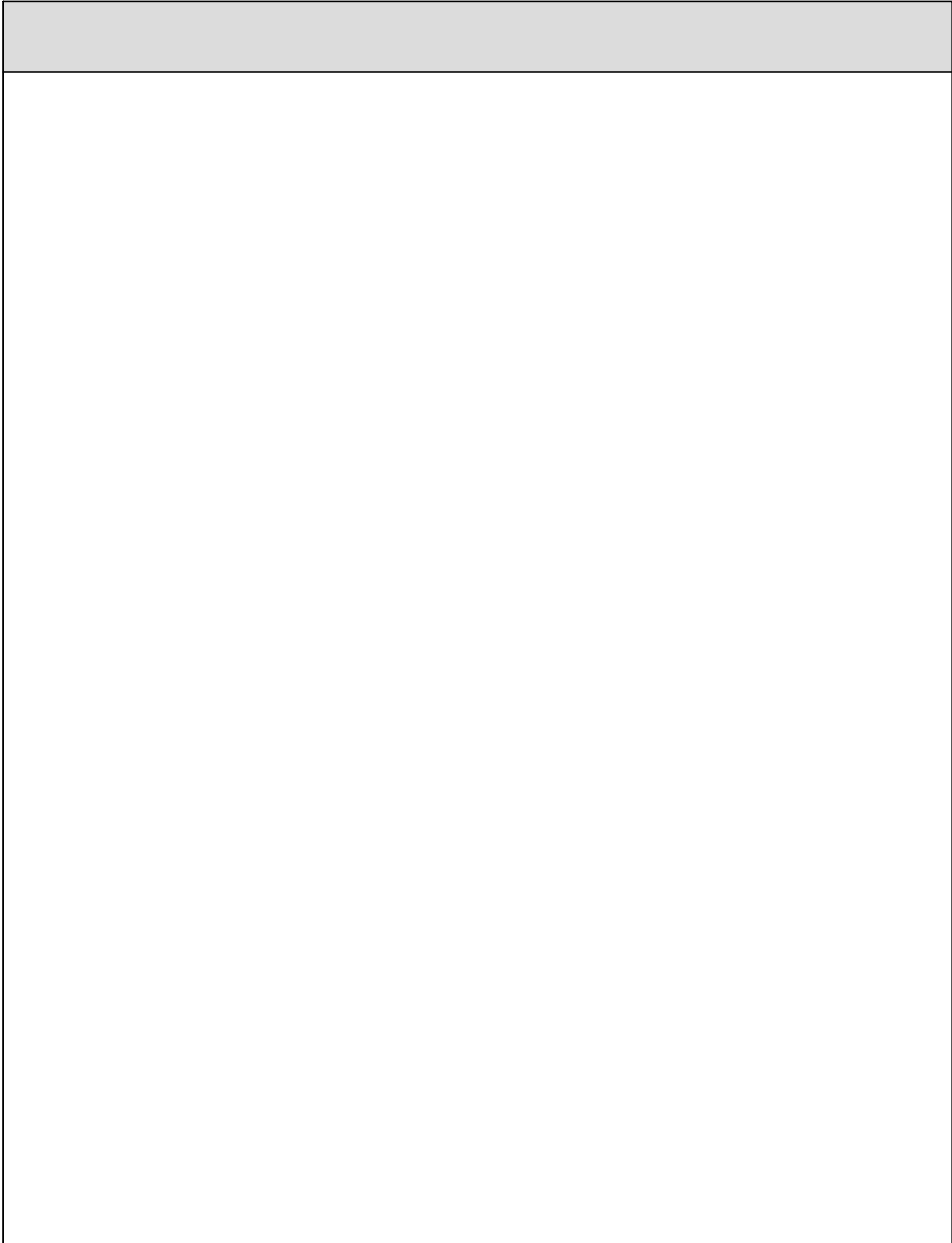
Detail 2



Note: A minimum of 15mm depth of ACUN3610 shall be used sealing glass



Do Not Scale From This Drawing



Do Not Scale From This Drawing

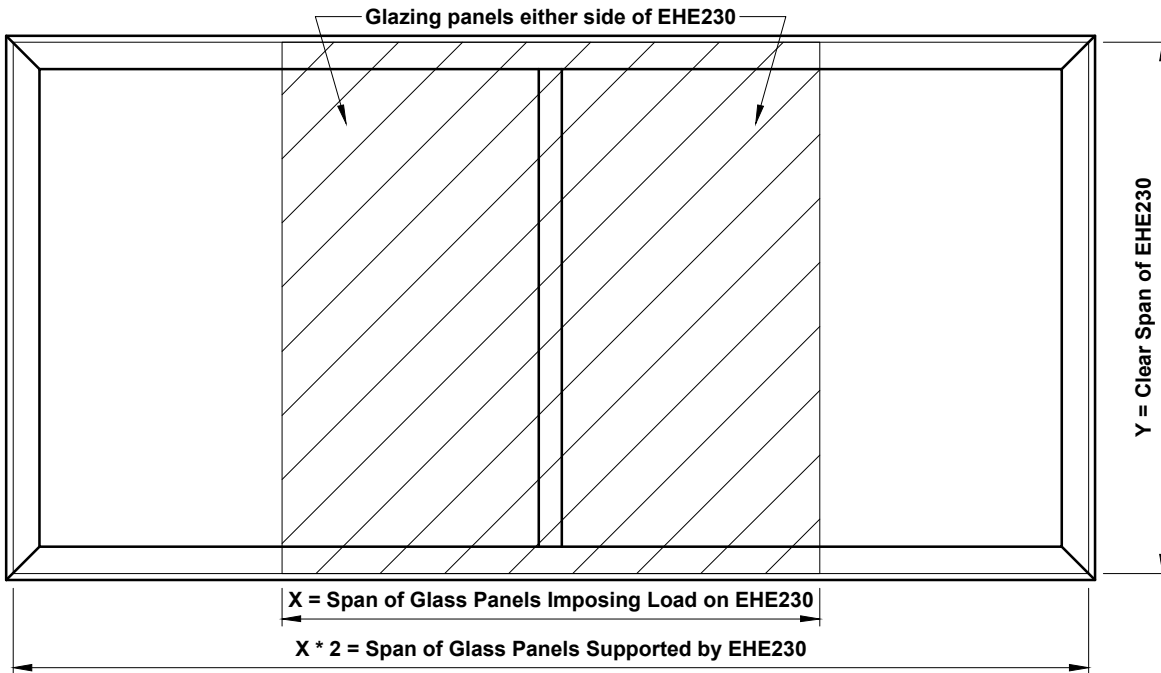
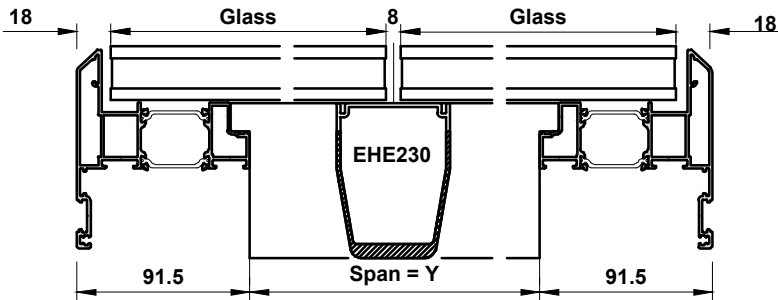
Section D

Statics

General Size Limitations are shown on Page A03.

**For Wind Loading Limitations, Please Contact
The Technical Department - T: 01934 876100**

Section D



EHE230 Span	Maximum Glass Sizes	
Y (mm)	X (mm)	X * 2 (mm)
<1800	3175	6350
1801-1900	2800	5600
1901-2000	2400	4800
2001-2100	2100	4200
2101-2200	1850	3700
2201-2300	1625	3250
2301-2400	1420	2840
2401-2500	1260	2520
2501-2600	1130	2260
2601-2700	1000	2000
2701-2800	900	1800
2801-2900	800	1600
2901-3000	700	1400

Important Notes:

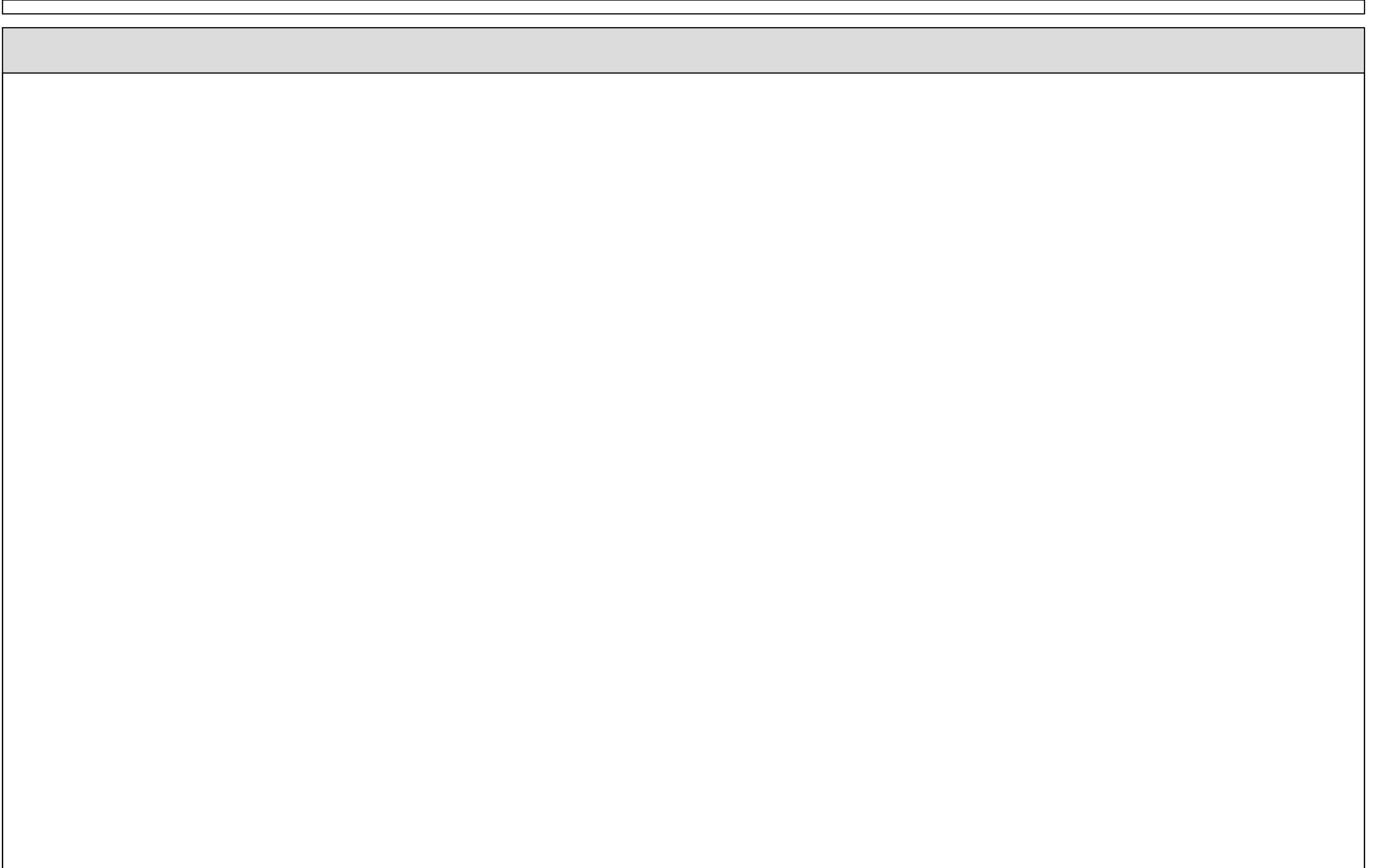
1. Deflection limited to L/175
2. The above limits are for EHE230 only. The glazing unit design limits must be confirmed by others.
3. The adjacent rooflight glazing is securely fixed around the perimeter as specified in this manual.
4. Loading consistent design parameters:
 - a) The maximum potential loading case is dead (0.35kN/m²) + imposed (0.75kN/m²) (therefore wind uplift is not covered).
 - b) Dead load is from 6.8mm laminate + 6mm toughened glazing = 0.35kN/m².
 - c) Maximum imposed (snow) load is 0.75kN/m².
 - d) Maximum aperture height above ground = 3m.
 - e) Maximum site altitude = 100m above ordinance datum
5. The Rooflight will be located within a flat roof with access maintenance only.

Section E

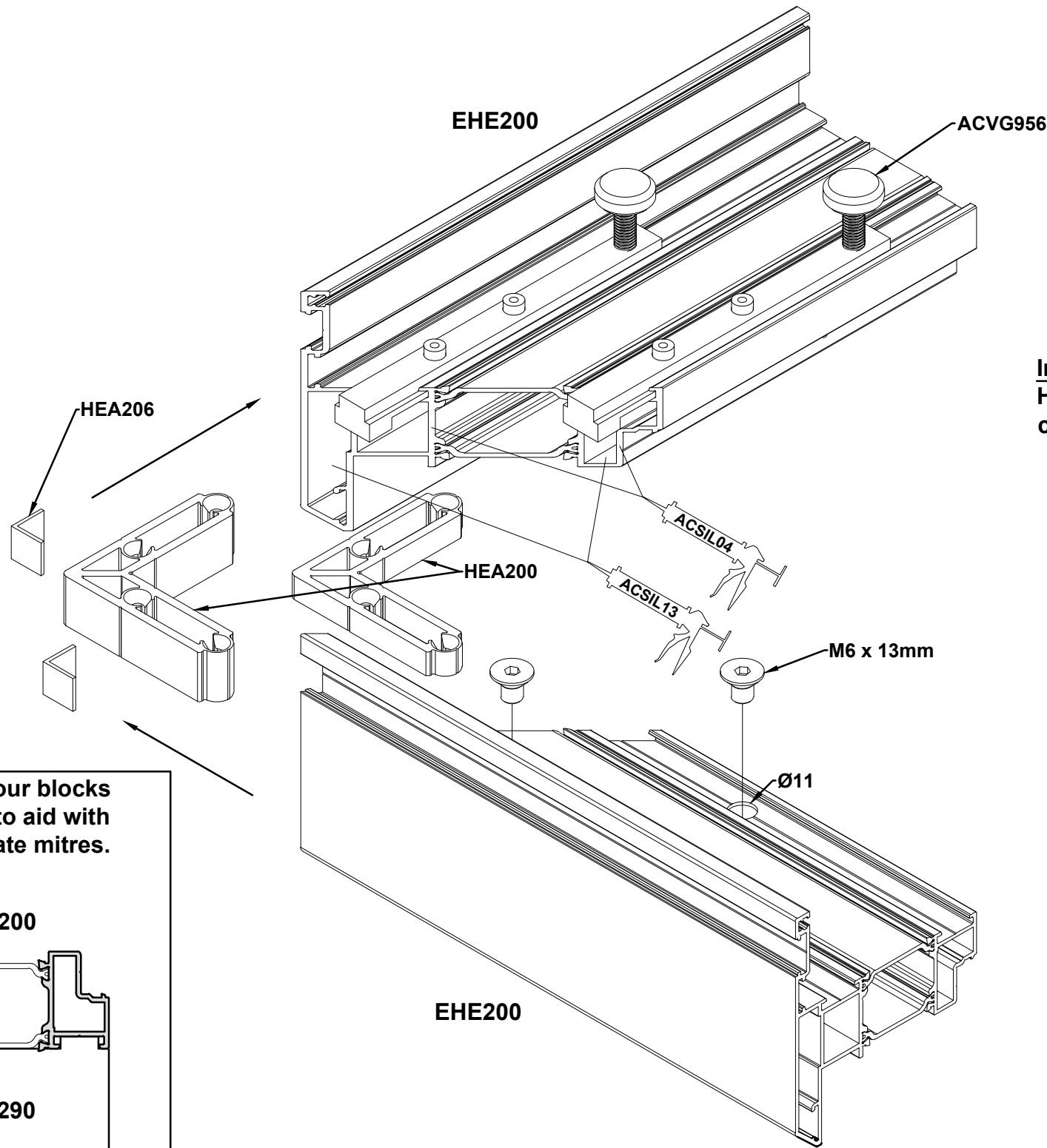


Construction Drawings

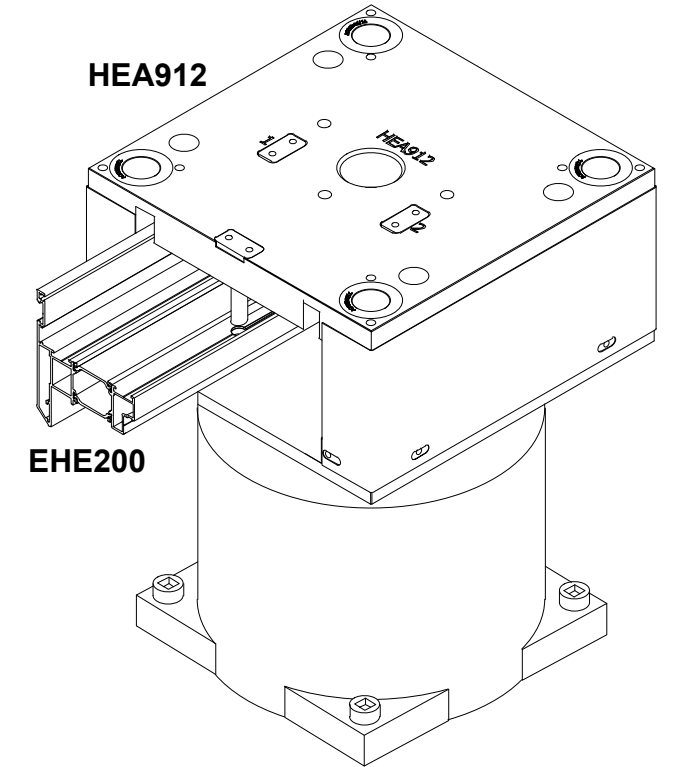
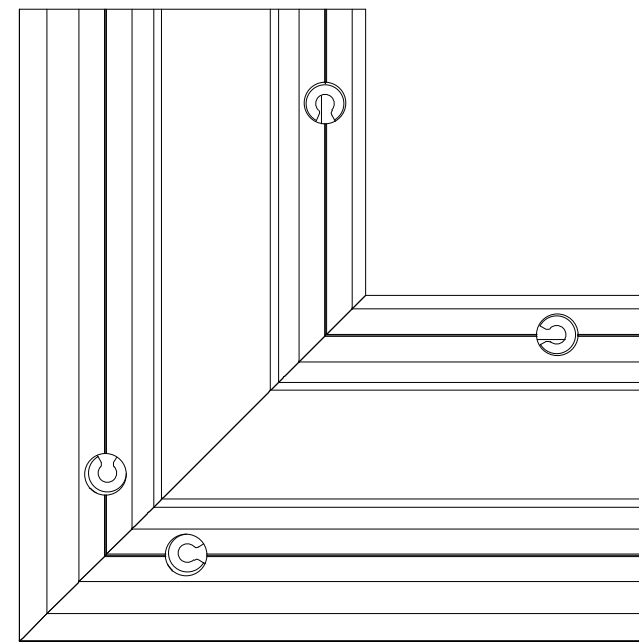
Corner Joint Details.....	E03 - E04
Sealing Glass Unit.....	E05
Walk On Roof Assembly.....	E06
Intermediate Mullion.....	E07
Typical Installation Details.....	E08
Kerb Sizes.....	E09 - E10



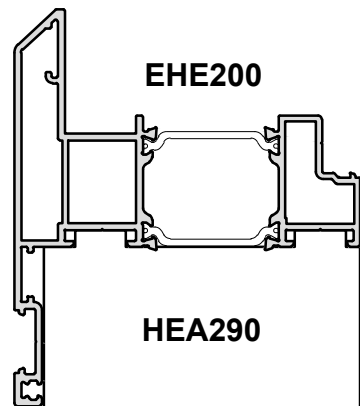
EHE200 Corner Joint Details



Important Fabrication Note:
HEA200 cleats require 2 screws per cleat. Only drill where shown.



HEA290 Contour blocks are available to aid with cutting accurate mitres.

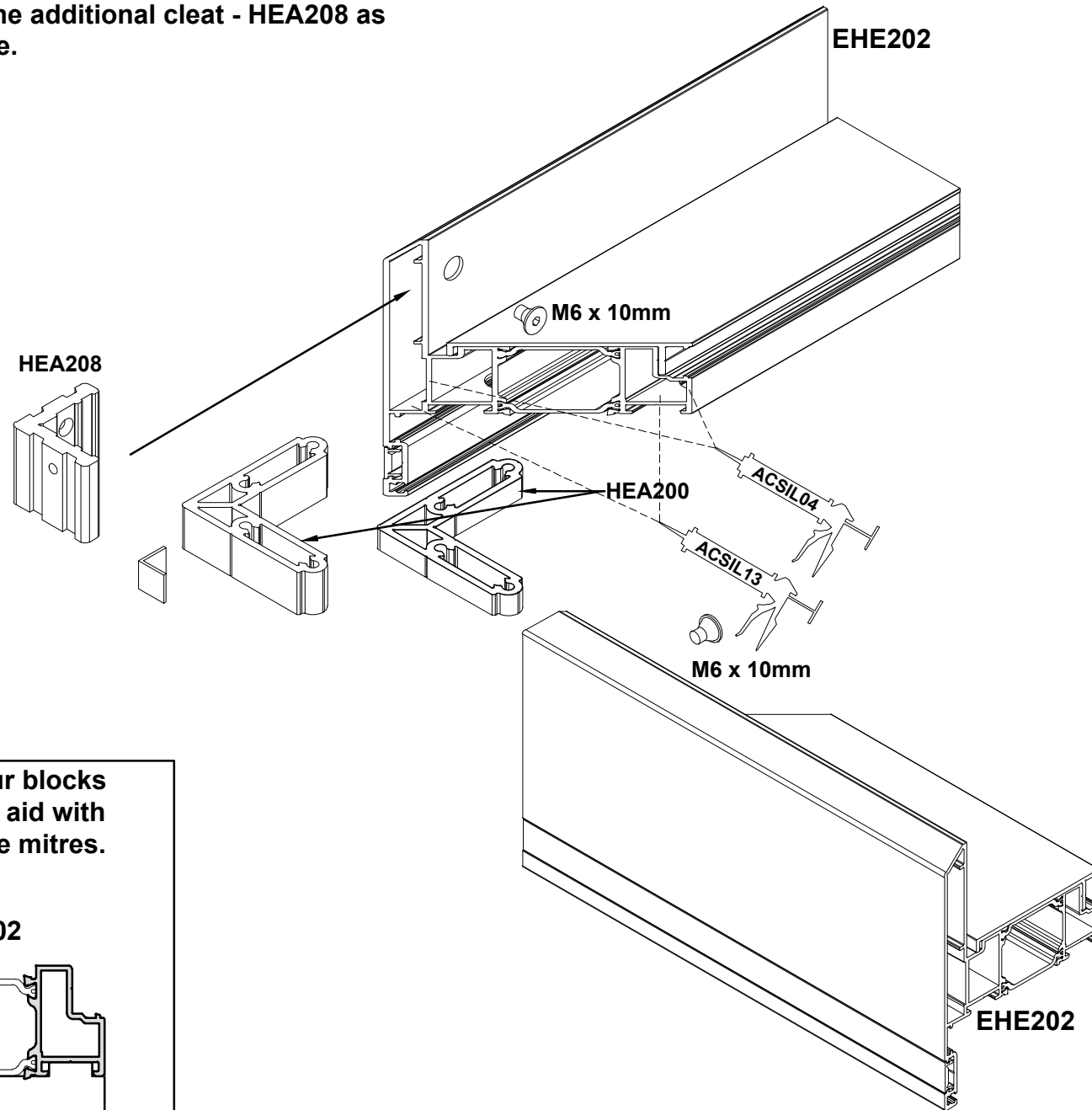


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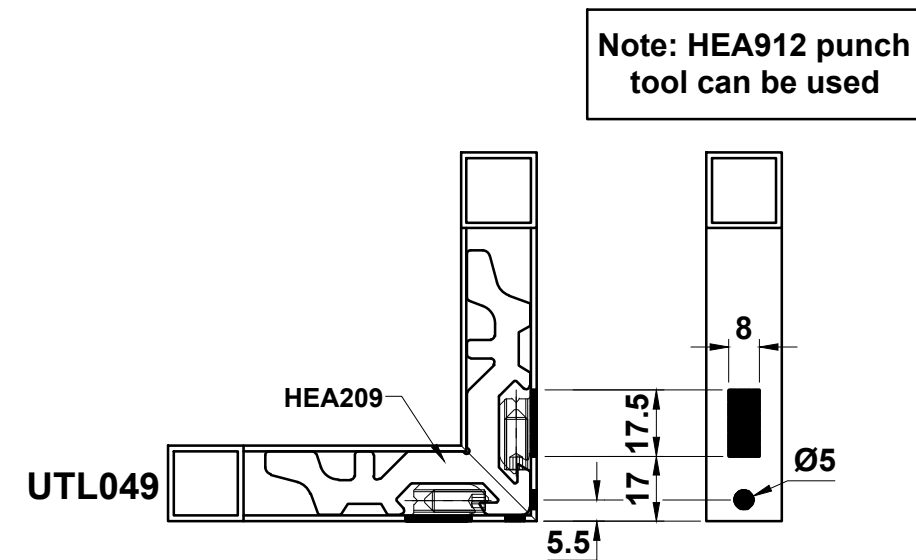
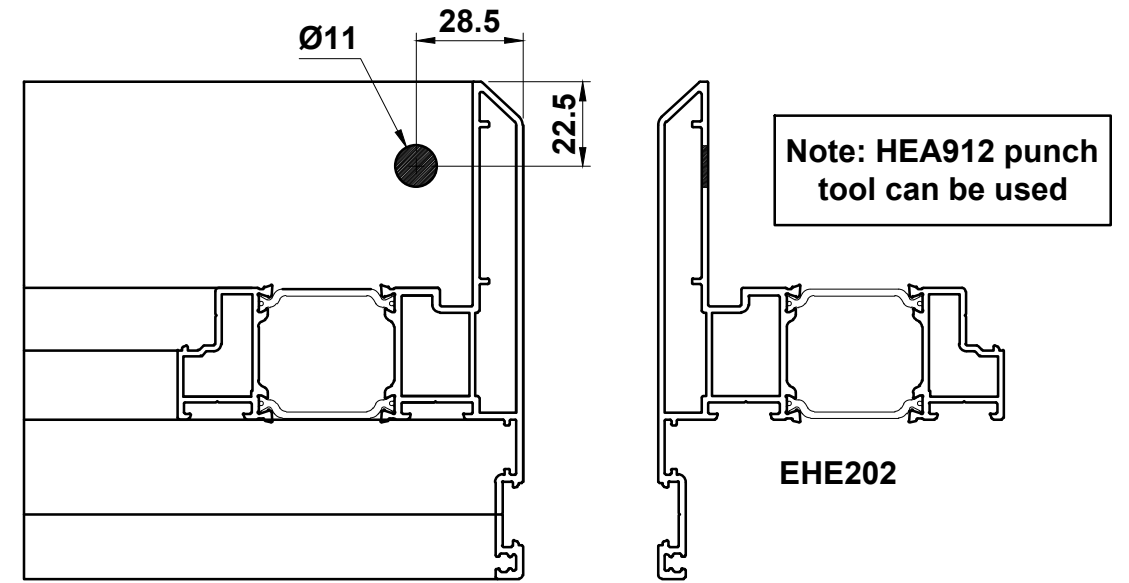
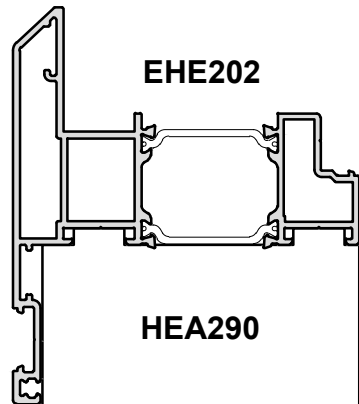
EHE202 Corner Joint Details

Important Fabrication Note:

EHE202 is assembled using the same method as EHE200 using HEA200 cleats as shown on page E03, but also requires the additional cleat - HEA208 as shown on this page.



HEA290 Contour blocks are available to aid with cutting accurate mitres.



Do Not Scale From This Drawing

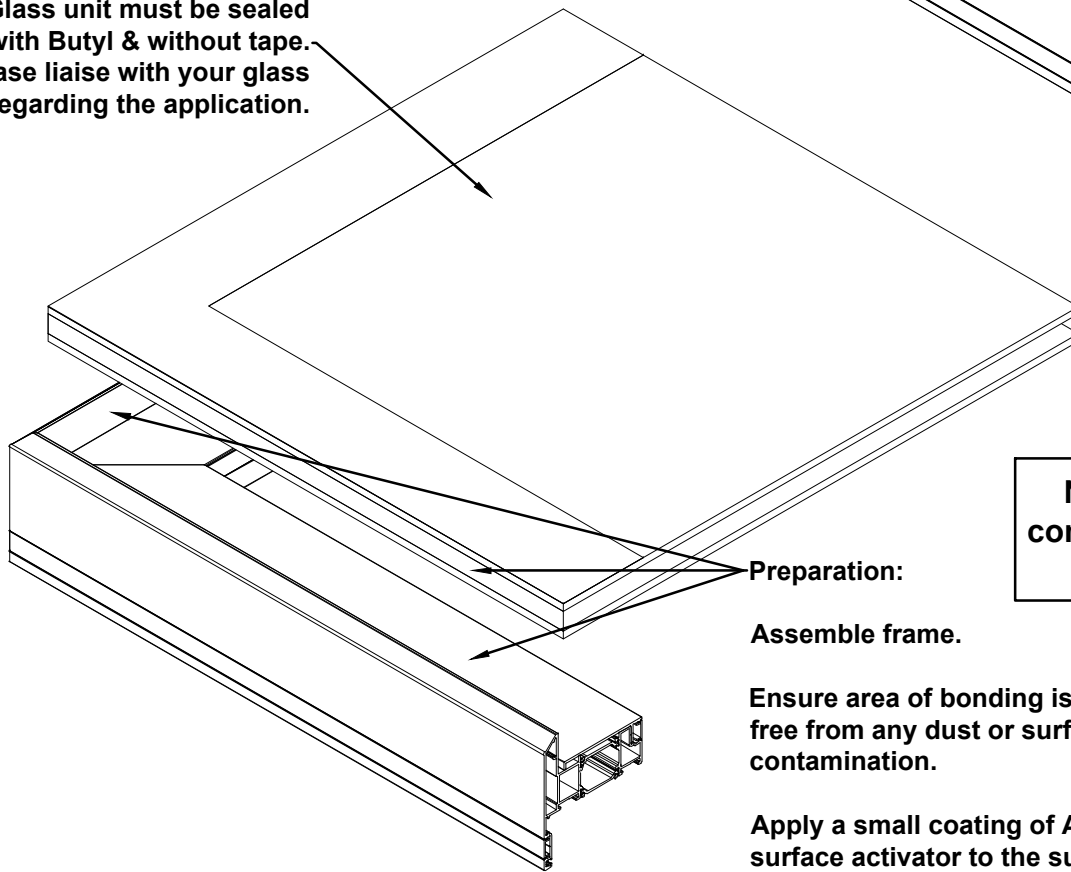
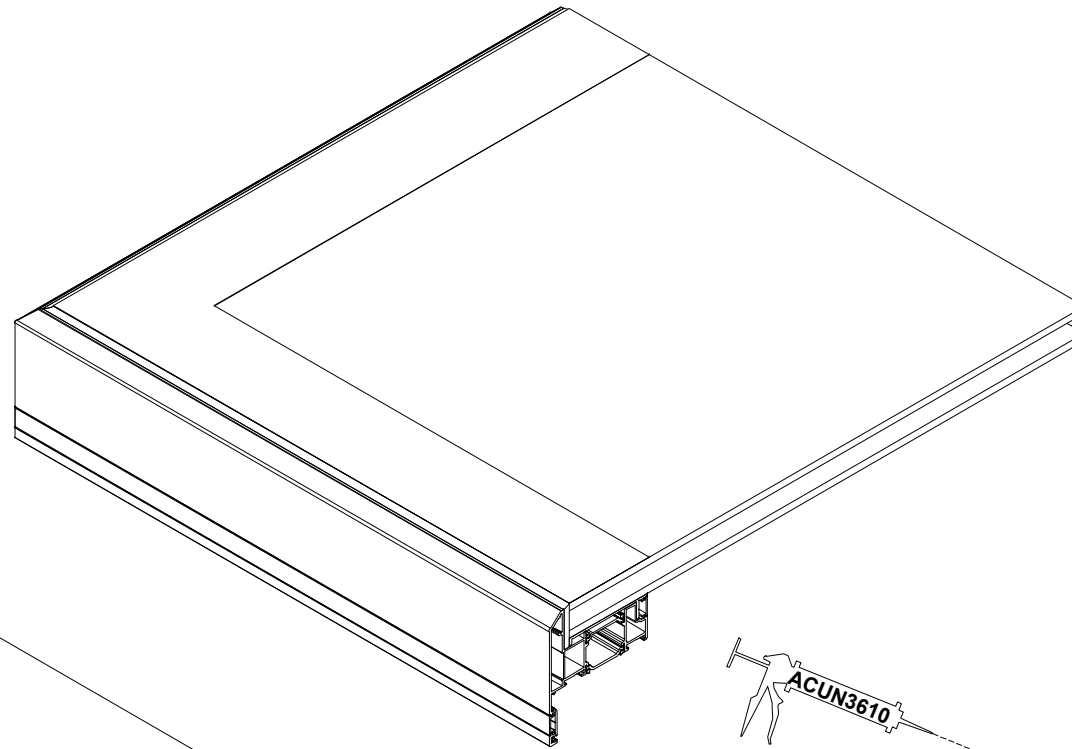
Sealing Glass Unit



ACUN3610 is a high quality single component adhesive that provides a strong bond between the Butyl sealed unit and frame.

We recommend glazing the frame in the workshop at least a day before installation so it can be allowed to set.

Important Note:
Glass unit must be sealed with Butyl & without tape. Please liaise with your glass supplier regarding the application.



Preparation:

Assemble frame.

Ensure area of bonding is clean, dry and free from any dust or surface contamination.

Apply a small coating of ACUN3612 surface activator to the surface of the glass support and the bond area of the glass only. Allow to dry, leaving a slight residue.

Take care not to apply ACUN3612 to any visible surfaces.

Note: ACUN3612 must make good contact with unit sealant and left for 48 hours to cure.

Bonding:

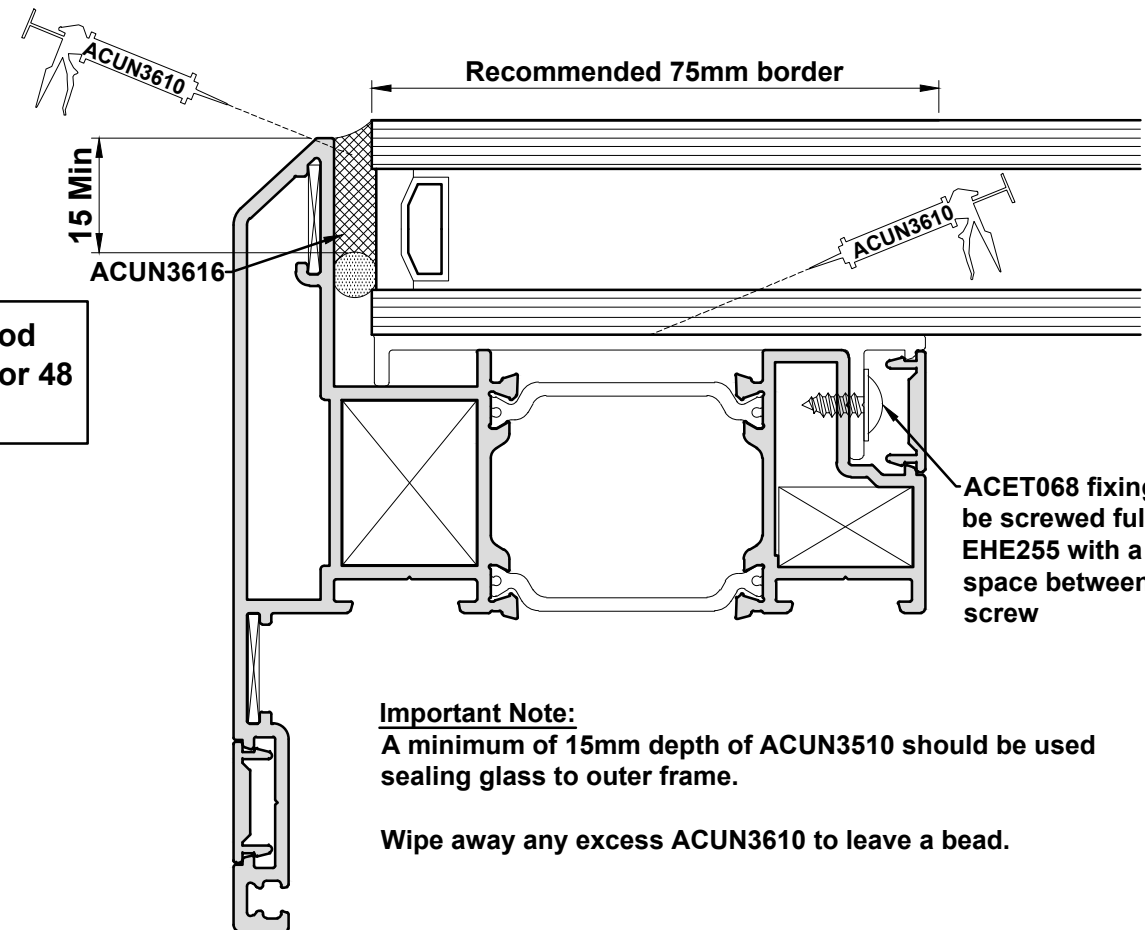
After preparation, apply a small, continuous bead of ACUN3610 single component sealant on top of the EHE255 glass support and place glass into position.

Apply ACUN3610 single component sealant into gap between frame and glass as detailed below (Detail A).

ACUN3610 must be applied to the entire perimeter of the unit.

A clamp should be used to ensure the glass is held flat while ACUN3610 sets.

Leave to set overnight.



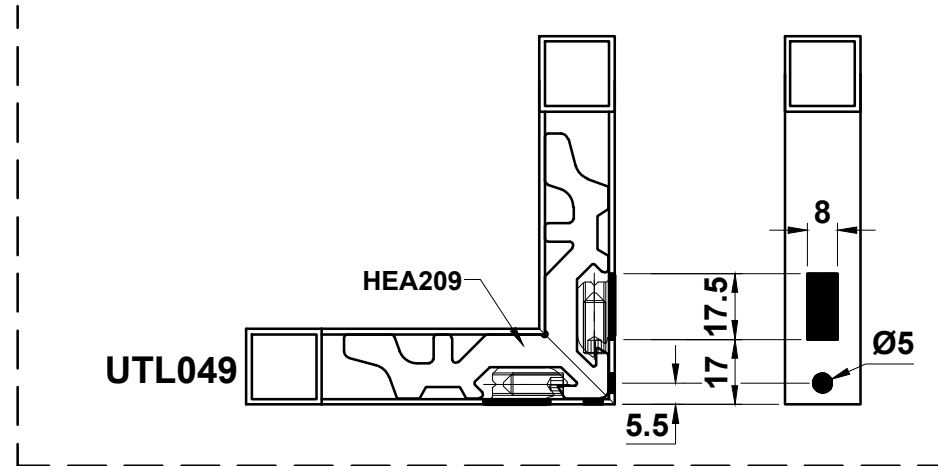
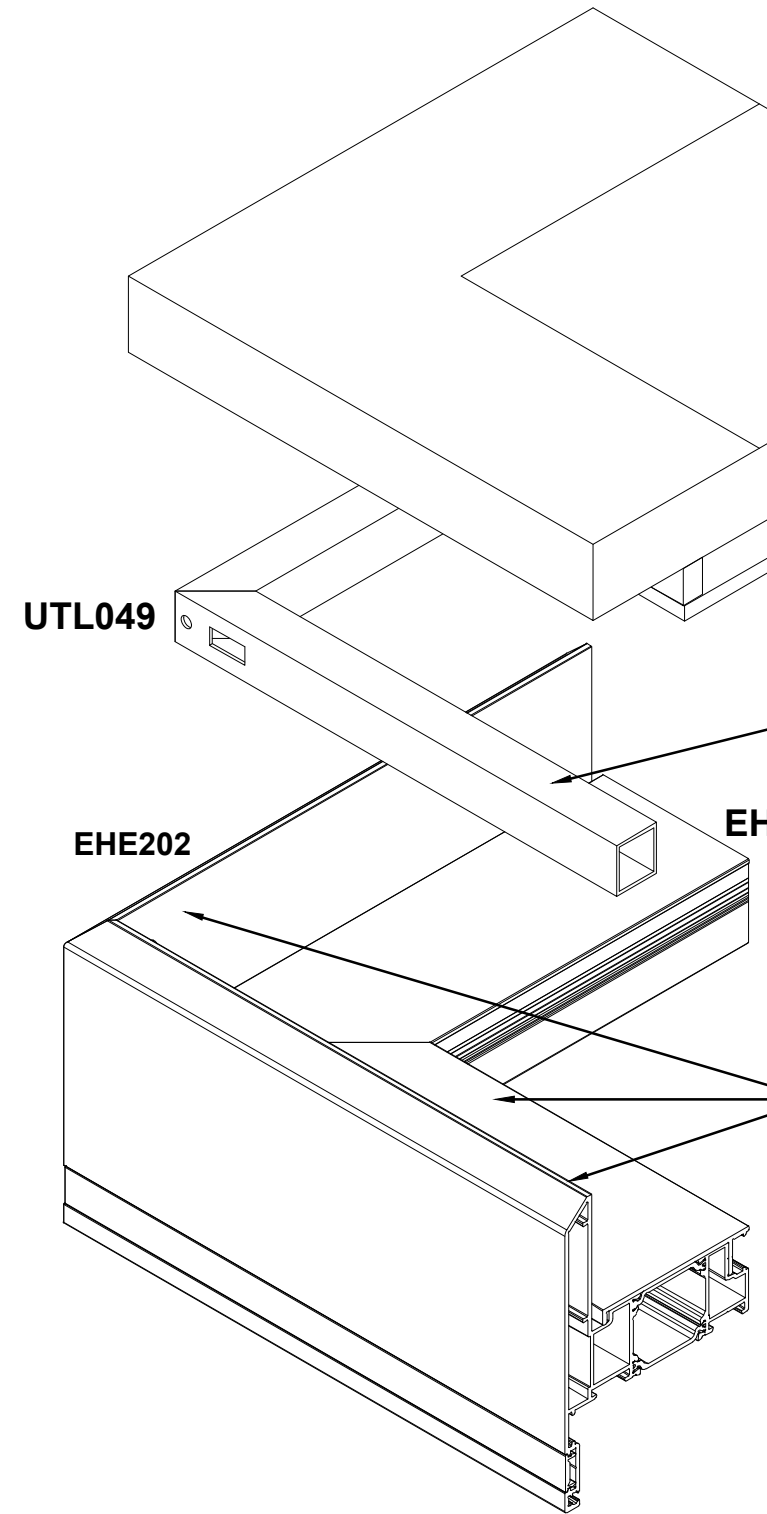
Important Note:
A minimum of 15mm depth of ACUN3510 should be used sealing glass to outer frame.

Wipe away any excess ACUN3610 to leave a bead.

ACET068 fixing should be screwed full length of EHE255 with a 300mm space between each screw

Do Not Scale From This Drawing

EHE202 Walk On Roof Assembly



Bonding:

After preparation, apply a small, continuous bead of ACUN3610 single component sealant on top of the EHE255 glass support and place glass into position.

Apply ACUN3610 single component sealant into gap between frame and glass as detailed below (Detail A).

ACUN3610 must be applied to the entire perimeter of the unit.

A clamp should be used to ensure the glass is held flat while ACUN3610 sets.

Leave to set overnight.

Apply ACPD908 tape to top side of UTL049 & bond to EHE255 using ACUN3610

Note: ACUN3612 must make good contact with unit sealant and left for 48 hours to cure.

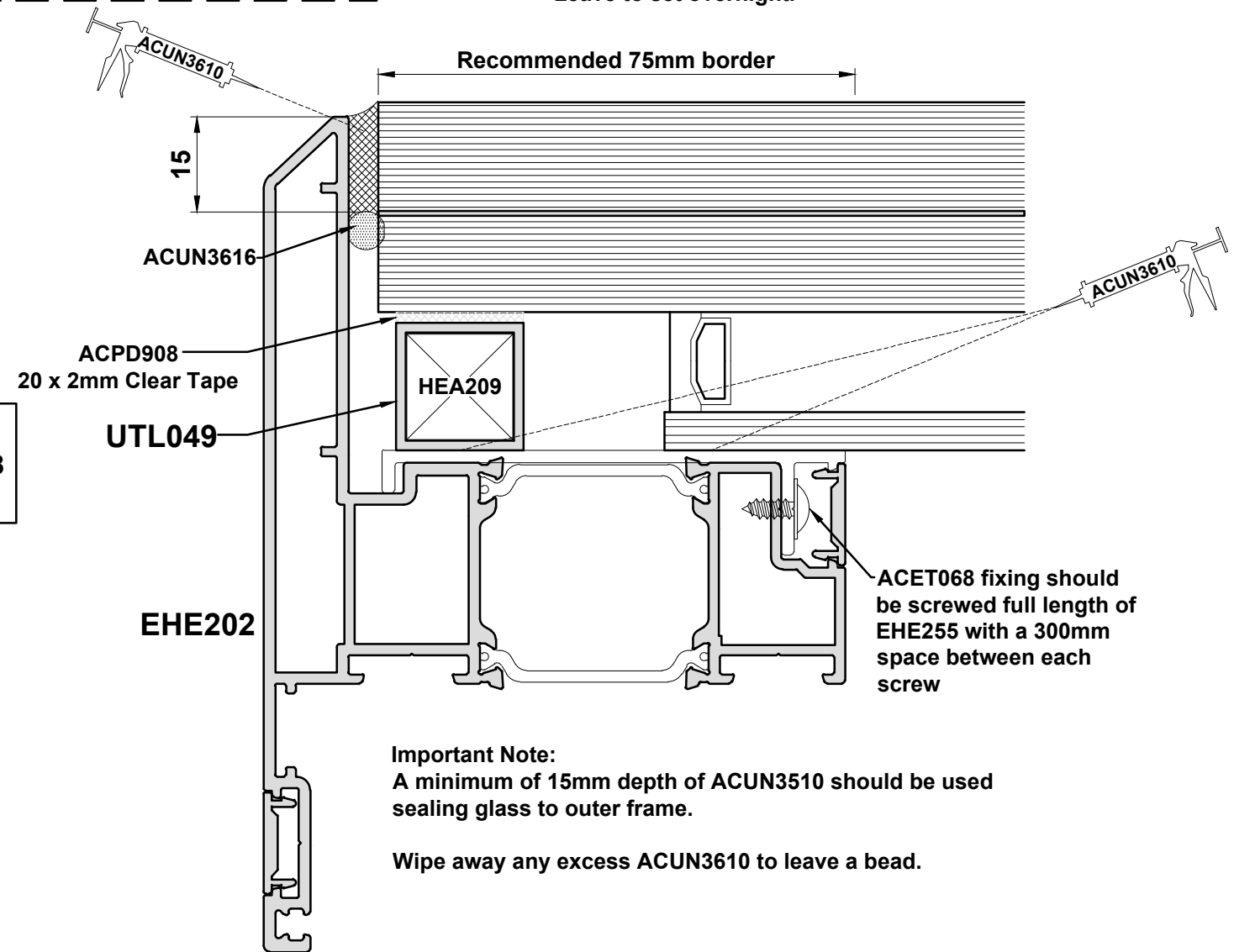
Preparation:

Assemble frame.

Ensure area of bonding is clean, dry and free from any dust or surface contamination.

Apply a small coating of ACUN3612 surface activator to the surface of the glass support and the bond area of the glass only. Allow to dry, leaving a slight residue.

Take care not to apply ACUN3612 to any visible surfaces.



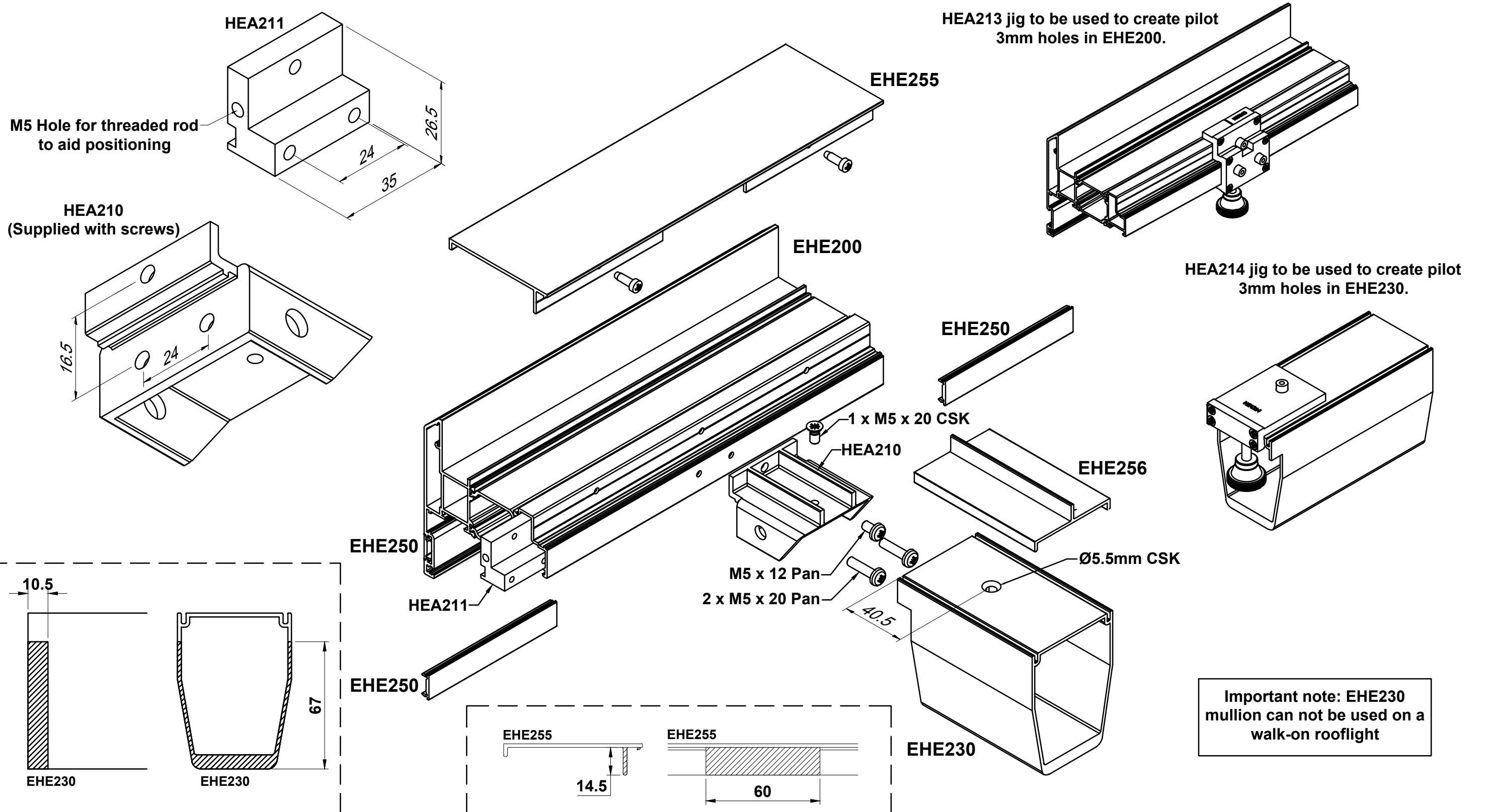
Important Note:
A minimum of 15mm depth of ACUN3610 should be used sealing glass to outer frame.

Wipe away any excess ACUN3610 to leave a bead.

ACET068 fixing should be screwed full length of EHE255 with a 300mm space between each screw

Do Not Scale From This Drawing

Intermediate Mullion



Important note: EHE230 mullion can not be used on a walk-on rooflight

Do Not Scale From This Drawing

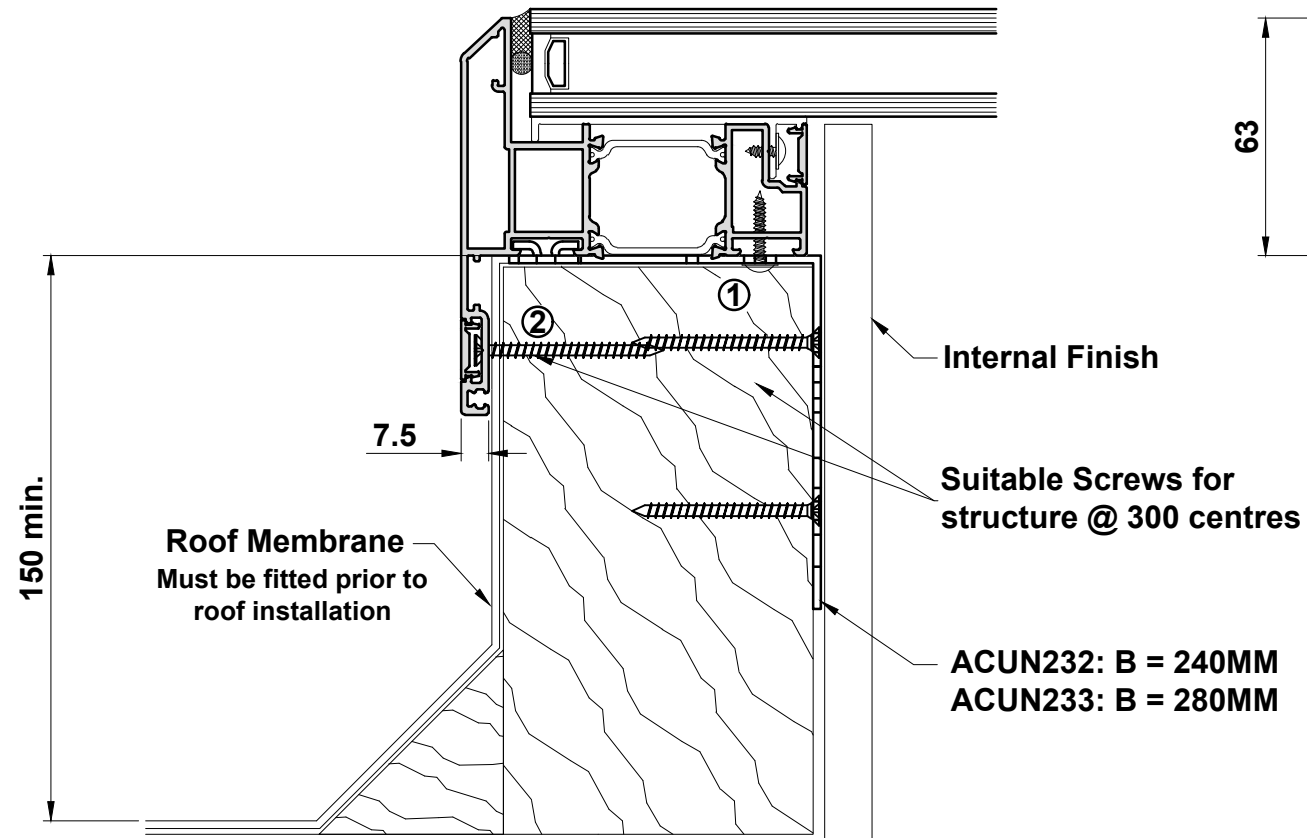
Typical Installation Detail

Methods of Fixing

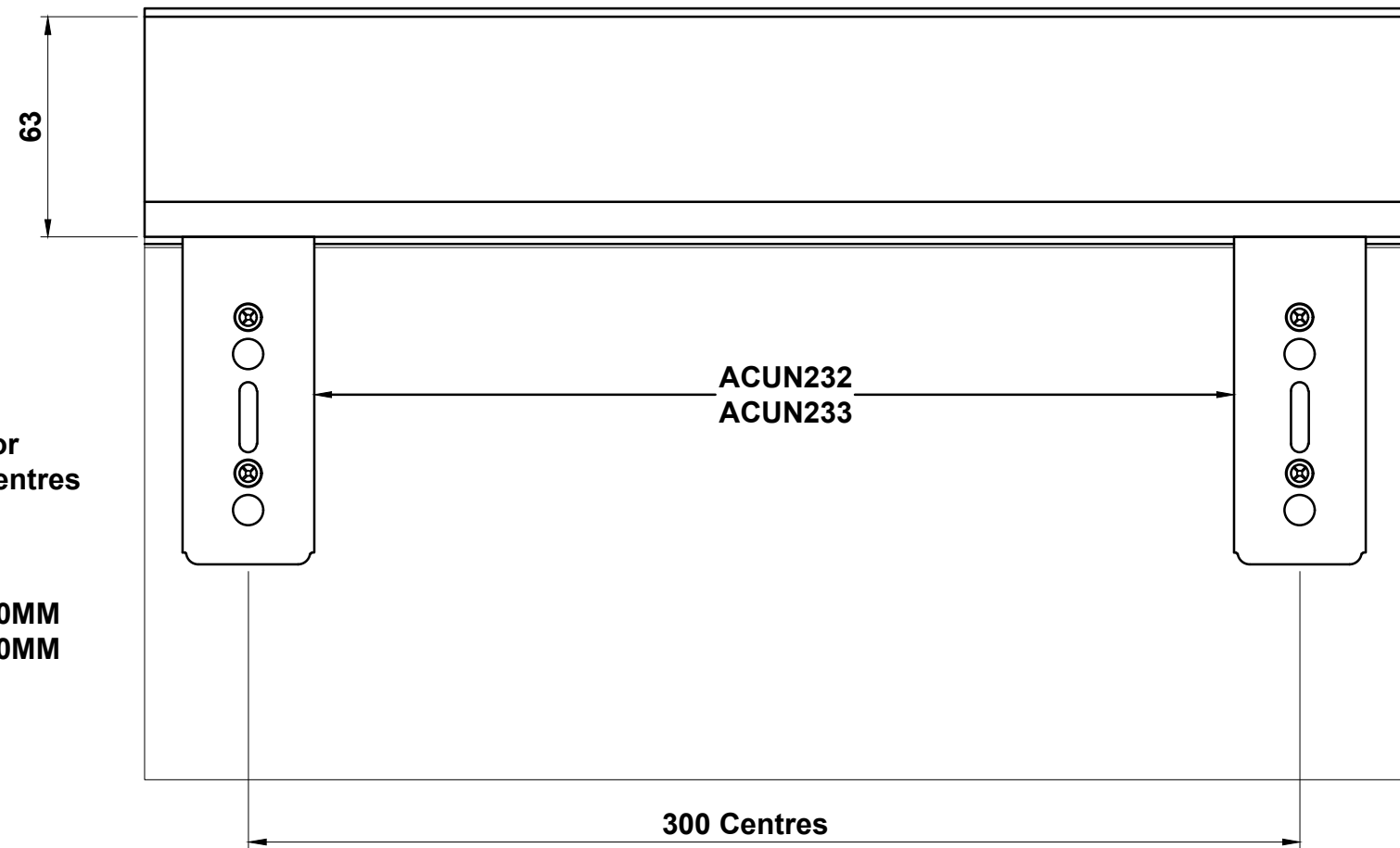
1. Fix roof from inside using ACUN232 or ACUN233 fixing straps at 100mm from each corner and at 300mm max centres. This is the recommended option.
2. Fix roof from the outside using anti-tamper screws suitable for the building substrate 100mm in from each end then at 300mm max centres.

Important Note:

To aid water run off, we recommend all rooflights are fitted at a minimum pitch of 5°.



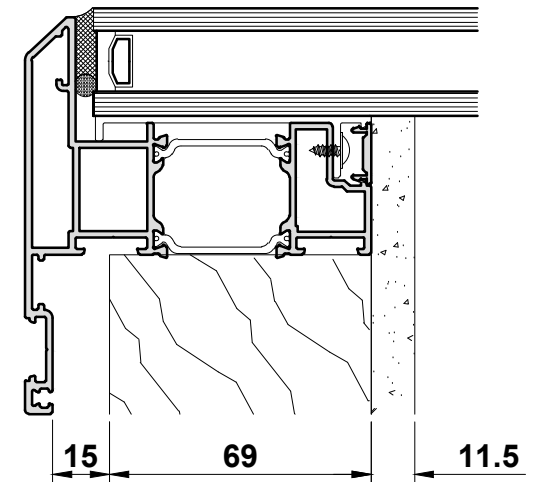
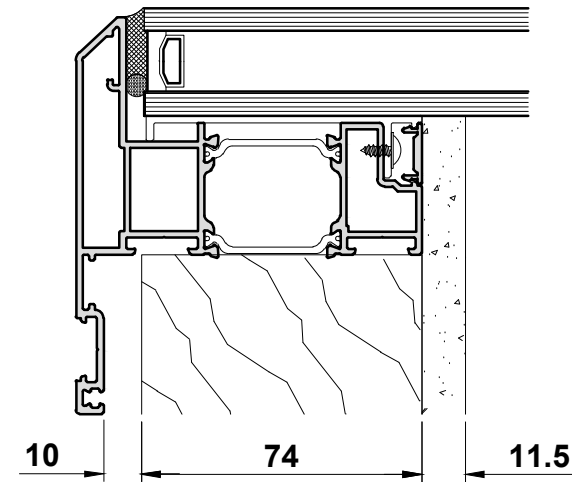
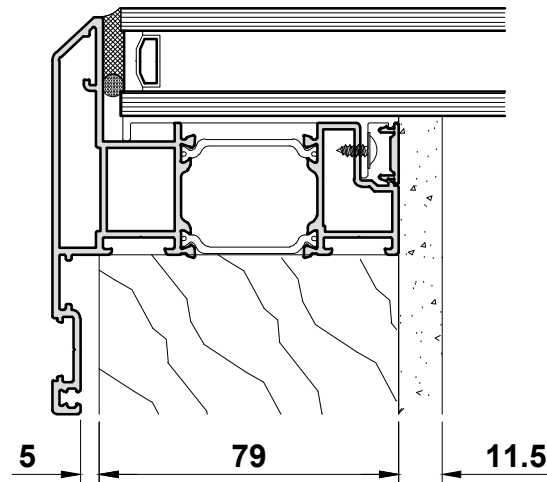
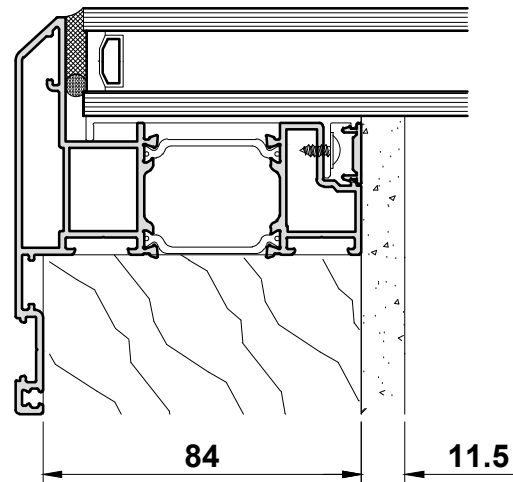
Inside View



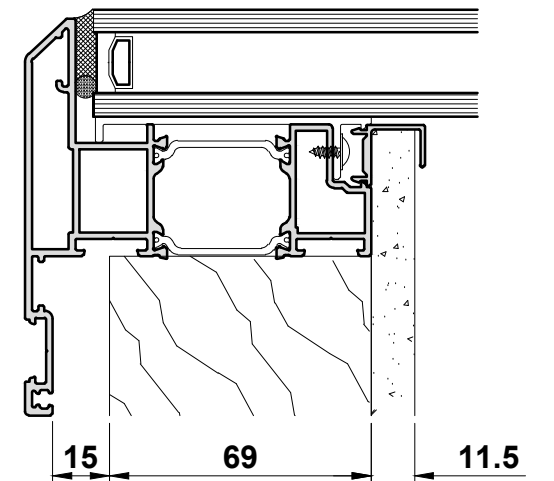
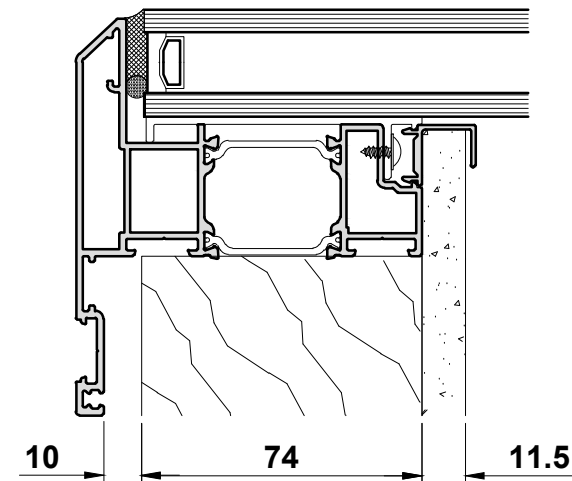
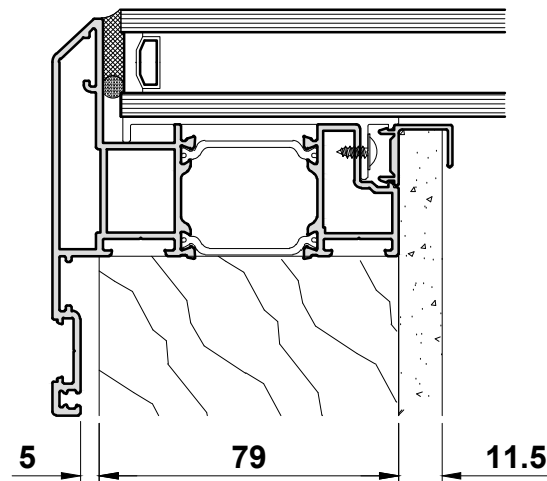
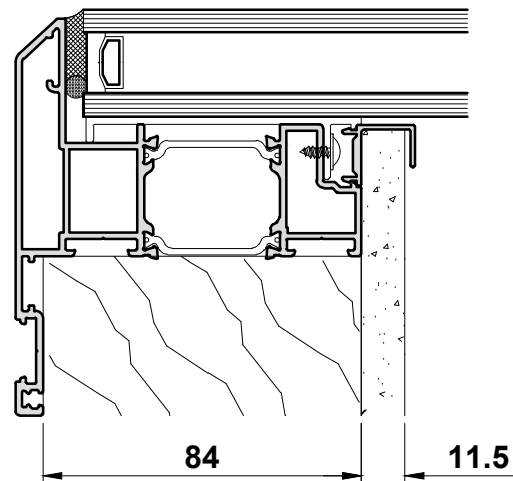
Do Not Scale From This Drawing

Kerb Sizes

Option A - Plasterboard to glass from internal face of kerb

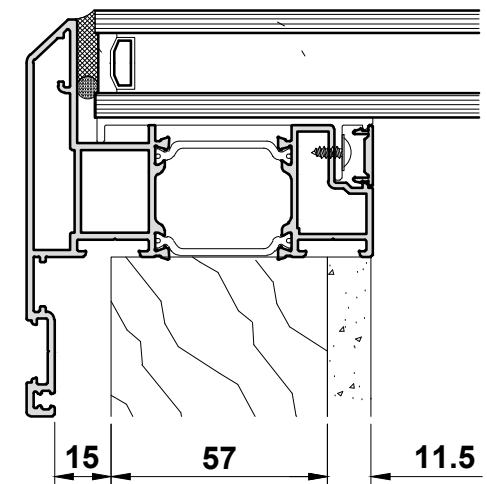
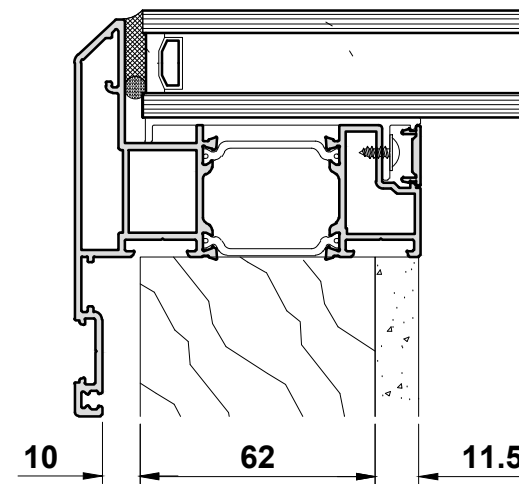
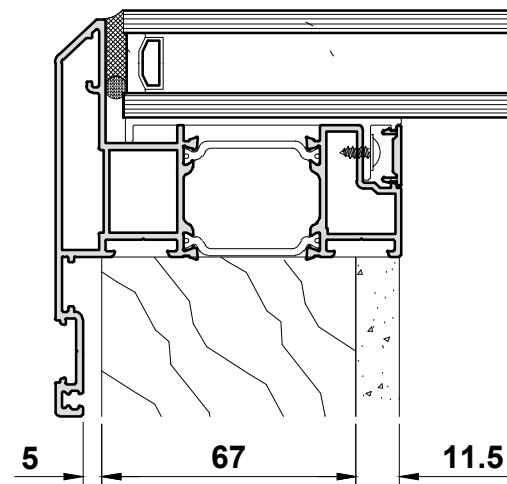
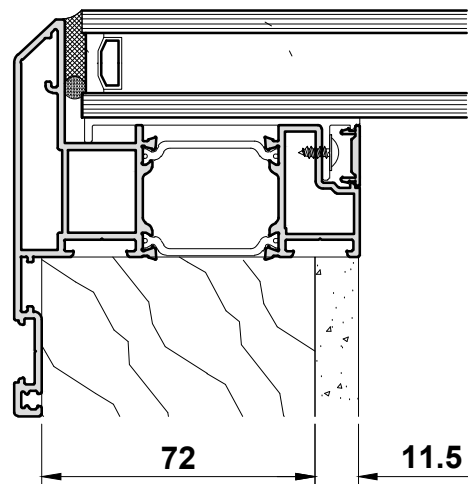


Option B - Plasterboard to EHE252 (plasterboard cap)



Kerb Sizes Continued

Option C - Plasterboard flush with inside edge of roof light.



Option A & B will restrict access to the fixing of the PVC.

All drawings show an allowance of 11.5mm for plaster board (9.5mm plasterboard and 2mm plaster) you need to adjust this if using 12.5mm plasterboard.

Please note: the sizes that are entered into FDS software is the tight external kerb dimension, an allowance option can be selected after.

Do Not Scale From This Drawing

Section F



Sawing Tables

Fixed Rooflight.....	F03
Fixed Rooflight with Mullion.....	F04
Walk On Rooflight.....	F05

Section F

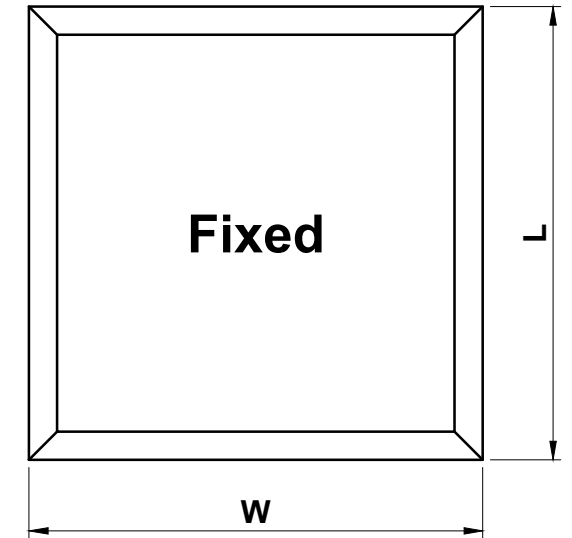
Fixed Rooflight

Profiles

EHE200		2		W
EHE200		2		L
EHE250		2		W
EHE250		2		W - 183
EHE250		2		L
EHE250		2		L - 183
EHE255		2		W - 37
EHE255		2		L - 37

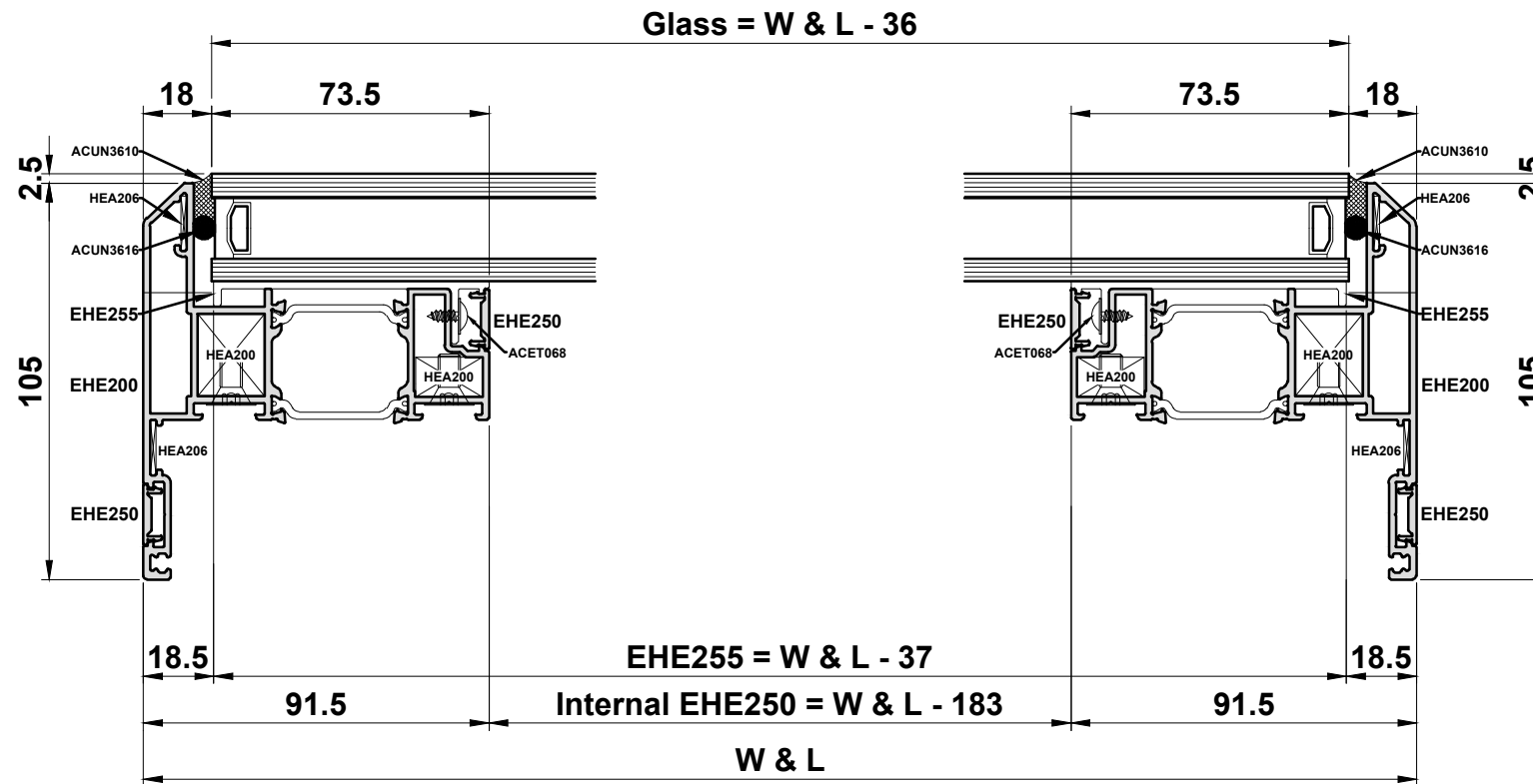
Accessories

HEA200		1	Cleat Pack
HEA206		8	Chevron
ACET068		300mm Centres	No.8 x 3/8 SS Flange Screw
ACUN3616		2xW-36 & 2xL-36	ACUN3610 Backing Rod



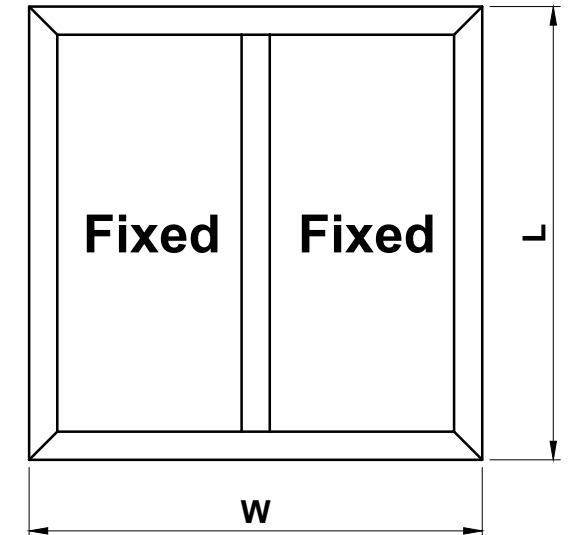
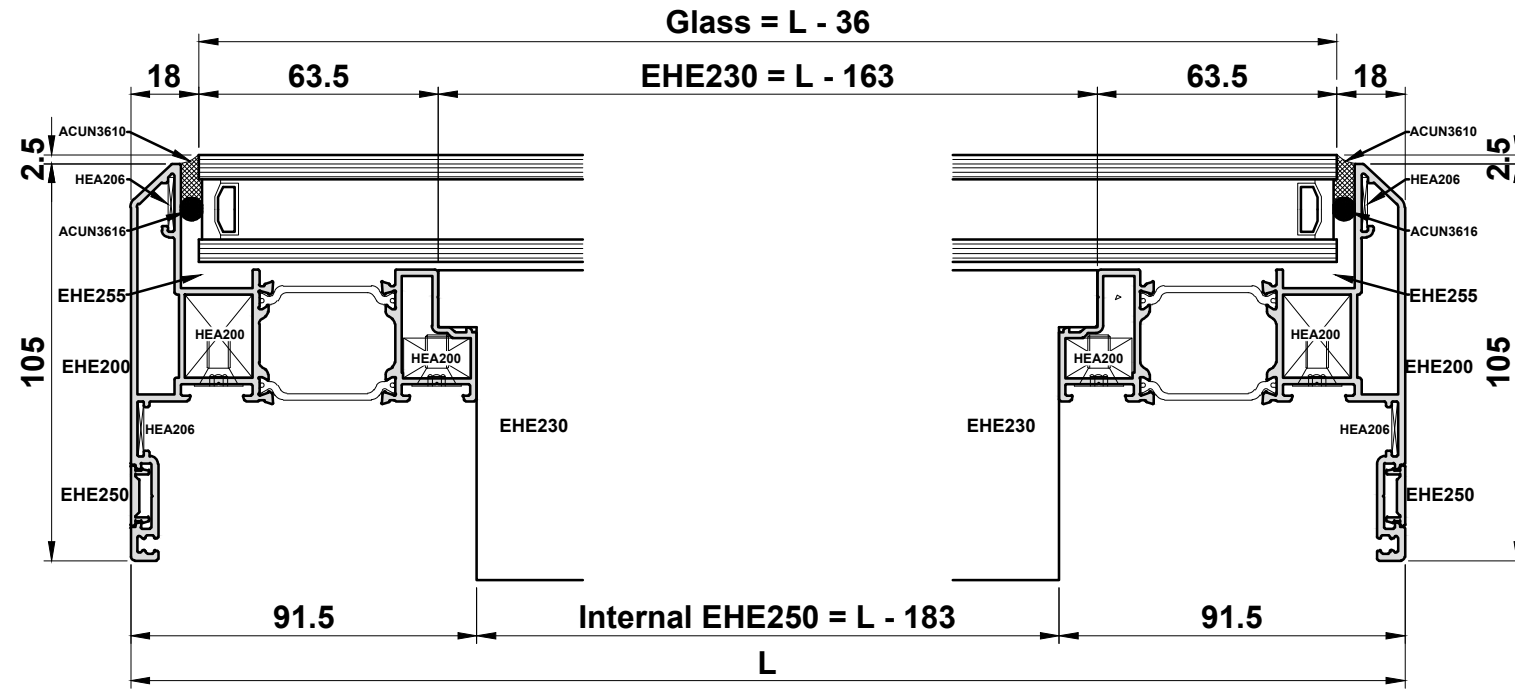
Glass Sizes

1x	W - 36
	L - 36



Do Not Scale From This Drawing

Fixed Rooflight with Mullion



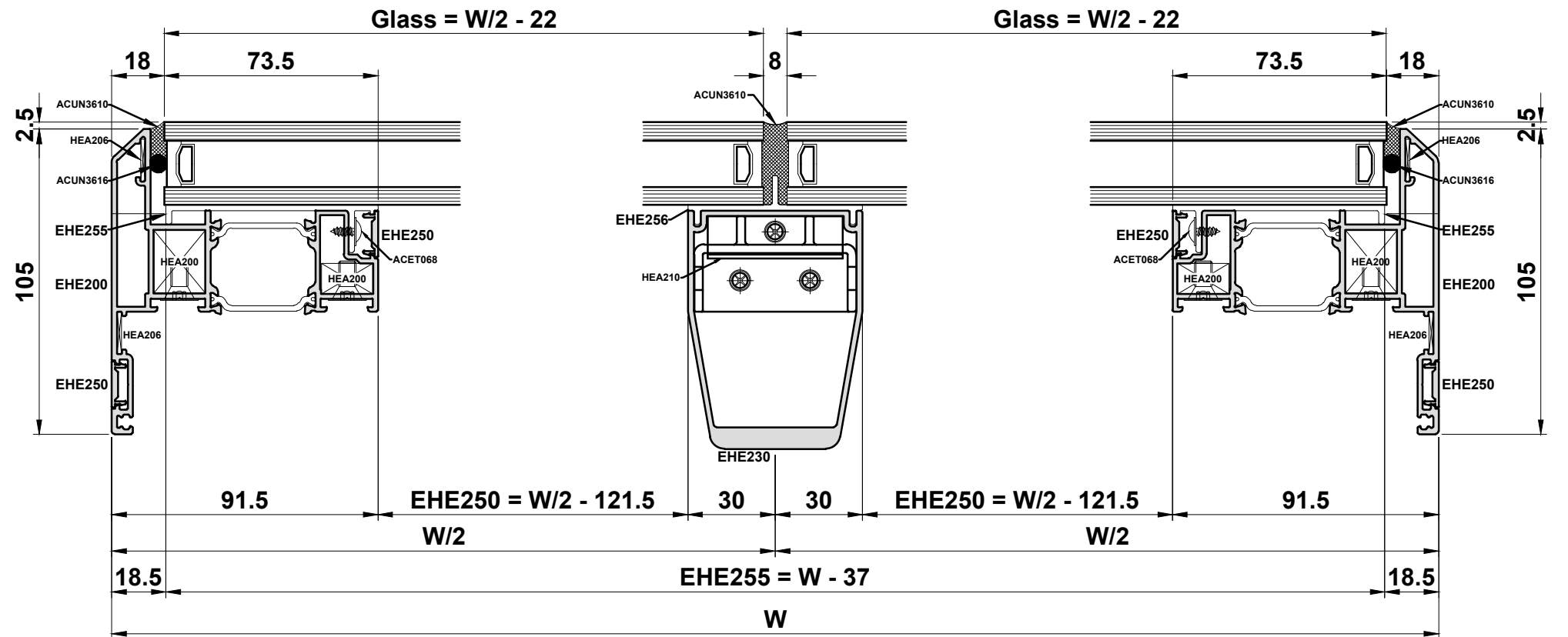
Accessories

HEA200		1	Cleat Pack
HEA206		8	Chevron
HEA210		2	EHE230 Bracket
HEA211		2	EHE230 Fixing Bracket
ACET068		300mm Centres	No.8 x 3/8 SS Flange Screw
ACUN3616		2xW-36 & 2xL-36	ACUN3610 Backing Rod

Profiles

EHE200		2	W
EHE200		2	L
EHE230		1	L - 163
EHE250		4	W/2 - 121.5
EHE250		2	W
EHE250		4	L - 183
EHE250		2	L
EHE255		2	W - 37
EHE255		2	L - 37
EHE256		1	L - 163

Glass Sizes	
2x	W/2 - 22
	L - 36



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Walk On Rooflight

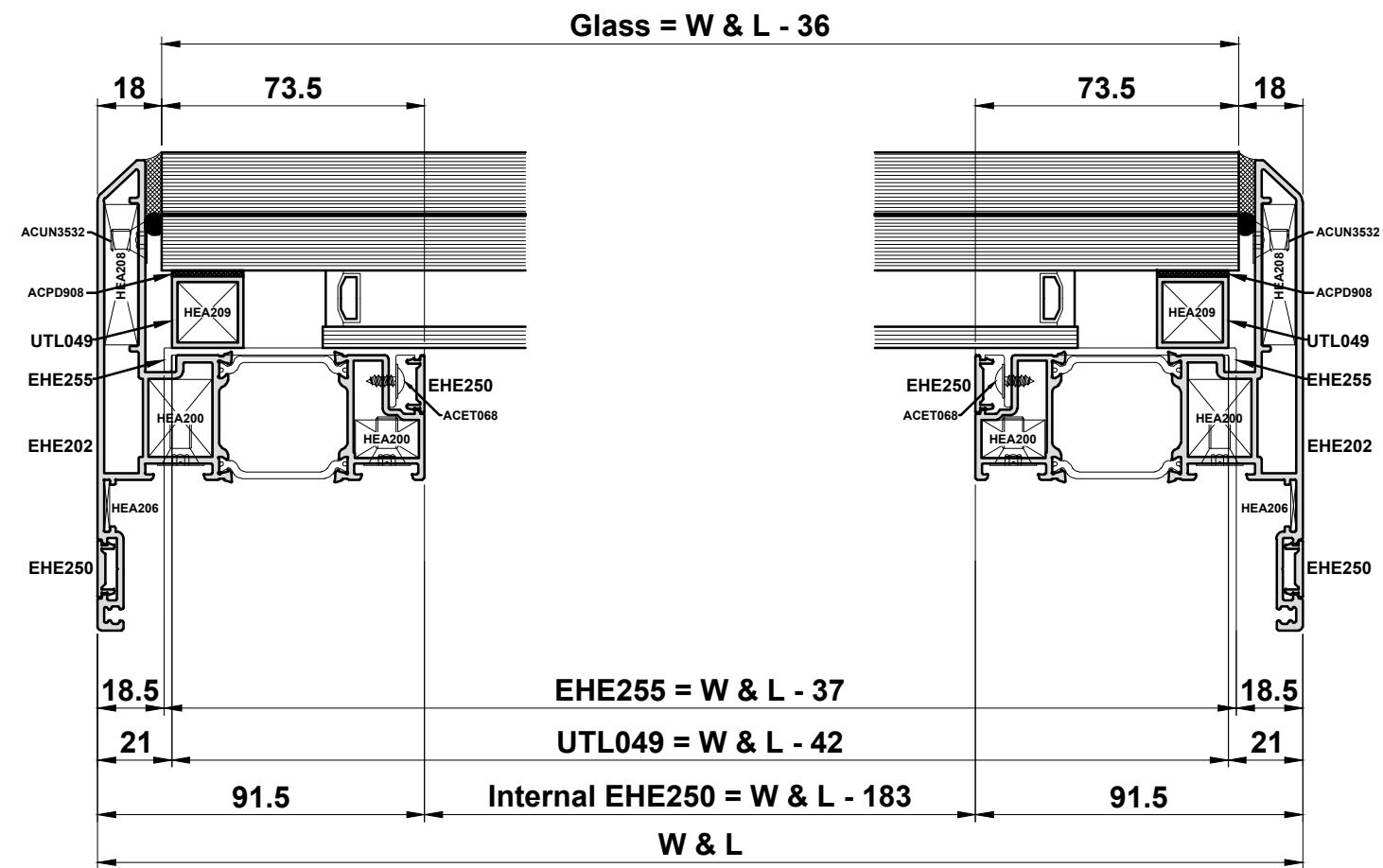
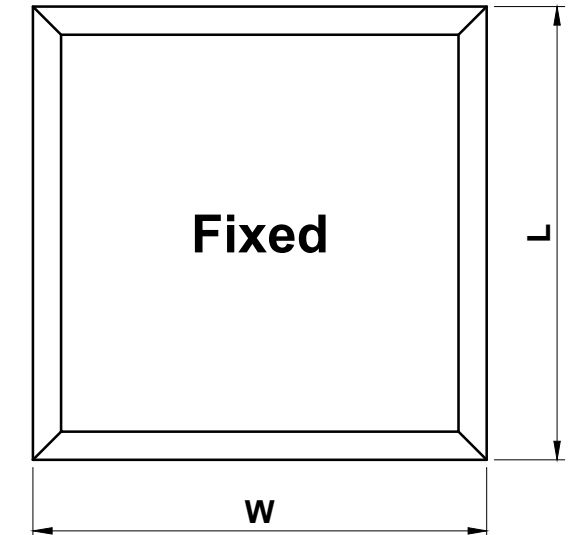
Profiles

EHE202		2		W
EHE202		2		L
EHE250		2		W
EHE250		2		W - 183
EHE250		2		L
EHE250		2		L - 183
EHE255		2		W - 37
EHE255		2		L - 37
UTL049		2		W - 42
UTL049		2		L - 42

Accessories

HEA200		1	Cleat Pack
HEA206		8	Chevron
HEA208		1	Cleat Pack
ACET068		300mm Centres	No.8 x 3/8 SS Flange Screw
ACUN3616		2xW-36 & 2xL-36	ACUN3610 Backing Rod

Glass Sizes	
1x	W - 36
	L - 36



Do Not Scale From This Drawing