

A-SLATE&P-SLATE

Installation Use and Maintenance Instructions

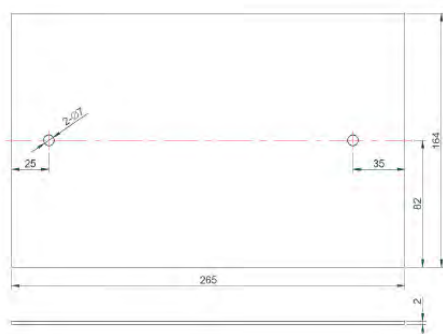
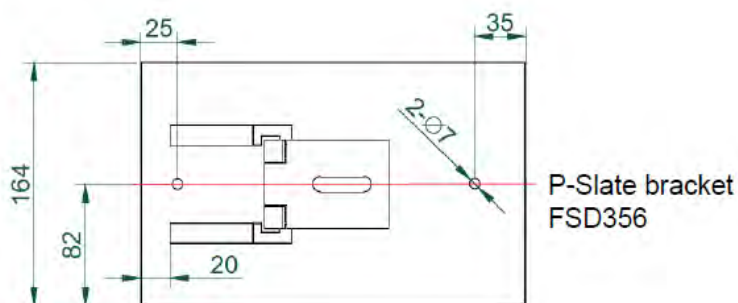


TECHNICAL SPECIFICATION FOR P-SLATE:

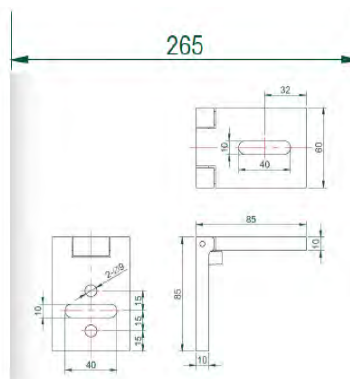
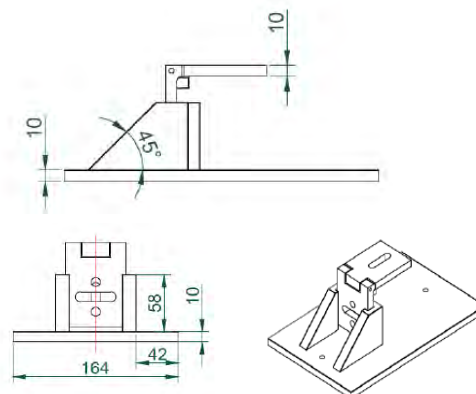
Roof pitch range	Minimum 15°
Compatible roof substructure	Timber (50mm minimum rafter or batten thickness)
Compatible roof coverings	Slates
Design wind uplift resistance in (newtons)	1059.9N per bracket
Solar Mounting Component reference number	PS1
Compatibility	Pitched roof
Installation	Above roof
System limitations	<ul style="list-style-type: none"> The 20mm spacer must always be used to install the P-SLATE Do not cut the 20mm spacer to reduce the length or modify it in any way under any circumstances as this will void the MCS certification of the P-SLATE The measurement between the rafter and the surface of the slate should be precisely 19mm, this is to ensure that the 20mm spacer prevents load being transferred to the slate roof covering Do not install the P-SLATE if the measurement between the rafter and the slate roof surface is greater or less than 19mm. If the measurement is not precisely 19mm, then the P-SLATE is not suitable for the installation as it may transfer load that could damage the slate roof covering or affect the weather sealing ability of the neoprene gasket Installers must ensure that the P-SLATE can be installed as stated in the Installation Use and Maintenance Instructions before proceeding with the installation

Certificated Components:

P-Slate base [265*164*10mm] (FSD356)	Neoprene gasket [265*164*2mm] (FSD464)	Screw [6.5*100mm](FSD465)
P-Slate L-bracket (FSD357)	Nylon spacer [20mm,10mm OD,8.2mm ID] (Spacer)	L-bracket Washer (SHD141667)
L-bracket nut (SLF100138)	L-bracket bolt [A2 M8*35mm] (215067)	C-Tec CT1 sealant (CT1 sealant)



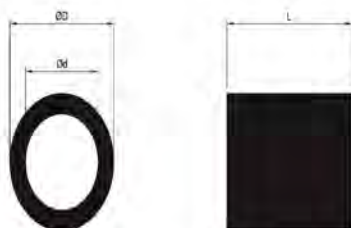
Neoprene gasket FSD464



L-bracket FSD357



10mm X 8.2mm X 20mm Spacers - Black Nylon Technical Specification



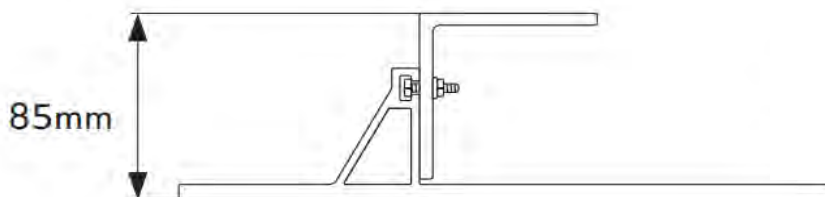
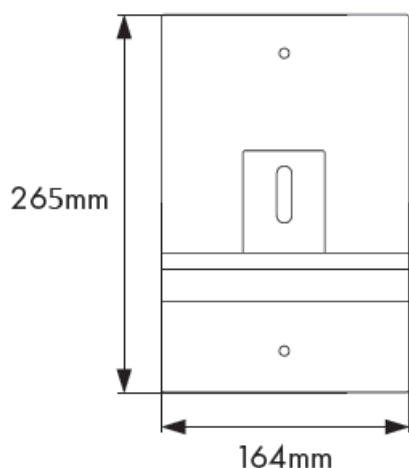
Finish	Black
Inside diameter (ID)	8.2mm
Length (L)	20mm
Manufacturing Standard	Not Standardised
Material	Nylon
Material Specification	UL34 HB Nylon 6,25% Glass Filled RMS-T73
Metric or Imperial?	Metric
Outside Diameter (OD)	10mm

TECHNICAL SPECIFICATION:FOR A-SLATE

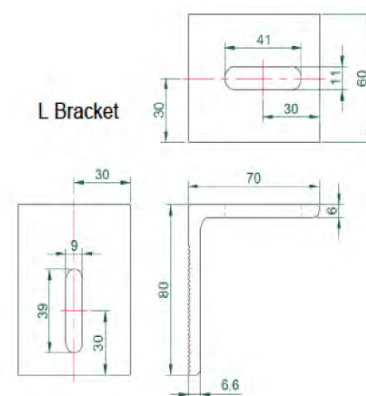
Roof pitch range	Minimum 15°
Compatible roof substructure	Timber (50mm minimum rafter or batten thickness)
Compatible roof coverings	Slates
Design wind uplift resistance in (newtons)	4928.5N per bracket
Solar Mounting Component reference number	AS1
Compatibility	Pitched roof
Installation	Above roof
System limitations	<ul style="list-style-type: none"> •The 20mm spacer must always be used to install the A-SLATE •Do not cut the 20mm spacer to reduce the length or modify it in any way under any circumstances as this will void the MCS certification of the A-SLATE •The measurement between the rafter and the surface of the slate should be precisely 19mm, this is to ensure that the 20mm spacer prevents load being transferred to the slate roof covering •Do not install the A-SLATE if the measurement between the rafter and the slate roof surface is greater or less than 19mm. If the measurement is not precisely 19mm, then the A-SLATE is not suitable for the installation as it may transfer load that could damage the slate roof covering or affect the weather sealing ability of the neoprene gasket •Installers must ensure that the A-SLATE can be installed as stated in the Installation Use and Maintenance Instructions before proceeding with the installation

Certificated Components:

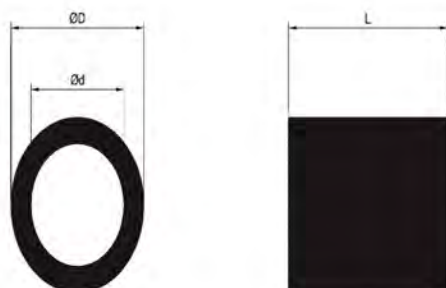
A-Slate base[265*164*5mm](FSD460)	Neoprene gasket [265*164*2mm](FSD464)	Screw[6.5*100mm](FSD465)
A-Slate L-bracket(FSD461)	Nylon spacer [20mm, 10mm, OD,8.2mm ID](Spacer)	C-Tec CT1 sealant (CT1 sealant)
L-bracket nut (YGG123937)	L-bracket bolt [A2 M8*25mm] (YGG100048)	



Neoprene gasket



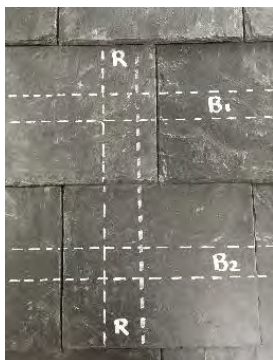
10mm X 8.2mm X 20mm Spacers - Black Nylon Technical Specification



Finish	Black
Inside diameter (B)	8.2mm
Length (L)	20mm
Manufacturing Standard	Not Standardised
Material	Nylon
Material Specification	UL94 HB Nylon 6, 25% Glass Filled RMS-173
Metric or Imperial?	Metric
Outside Diameter (D)	10mm

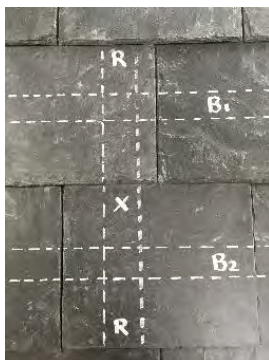


PROCEED WITH INSTALL OF P-SLATE AS FOLLOWS:



1

After locating the battens, B1 & B2 and rafter R positions.



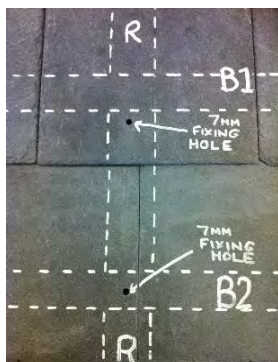
2

Mark the rafters central position X, make sure there is sufficient rafter timber either side of the X.



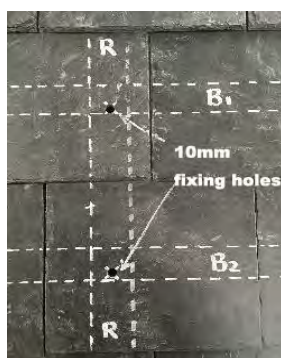
3

Place plastic bases in the fixing position as shown. Hold and drill through the 2 marked fixing points X using a 7mm tile drill enough to mark the roof slate surfaces.



4

Drill out the two marked fixing hole positions with a 7mm drill.



5

Drill out the 7mm fixing holes to 10mm.



6

Apply CT1 sealant into and around the fixing holes



7

Insert spacers supplied into both fixing holes to contact with rafter and protrude by 1mm above the surface of the slate.



8

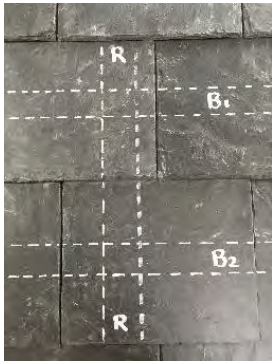
Apply CT1 sealant around the bottom of two fixing holes of the plastic bases.



9

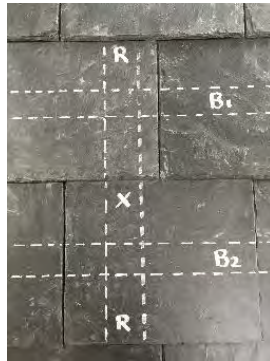
Put the neoprene gasket under the plastic bases and fix the plastic brackets into place using 2 x 6.5*100mm wood screws, then **Apply CT1 sealant around the top of 2 wood screws again.**

PROCEED WITH INSTALL OF A-SLATE AS FOLLOWS:



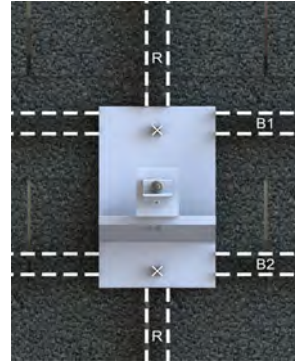
1

After locating the battens, B1 & B2 and rafter R positions.



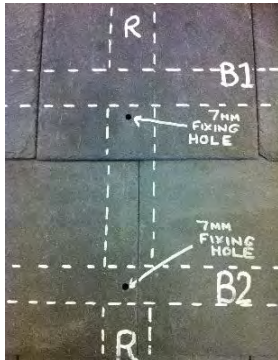
2

Mark the rafters central position X, make sure there is sufficient rafter timber either side of the X.



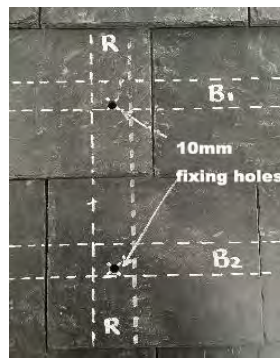
3

Place aluminium bases in the fixing position as shown. Hold and drill through the 2 marked fixing points X using a 7mm tile drill enough to mark the slate surfaces.



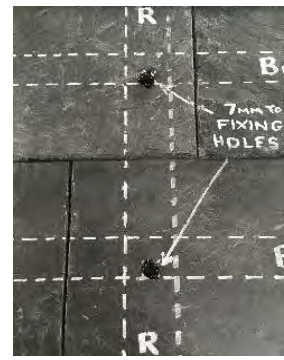
4

Drill out the two marked fixing hole positions with a 7mm drill.



5

Drill out the 7mm fixing holes to 10mm.



6

Apply CT1 sealant into and around the fixing holes



7

Insert spacers supplied into both fixing holes to contact with rafter and protrude by 1mm above the surface of the slate.



8

Apply CT1 sealant around the bottom of two fixing holes of the aluminum bases.



9

Put the neoprene gasket under the aluminium bases and fix the aluminium brackets into place using 2 x 6.5*100mm wood screw, then **Apply CT1 sealant around the top of 2 wood screws again.**

