



ELEVATION **BALLAST**



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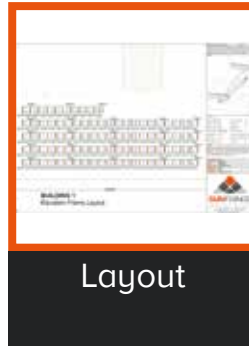
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2

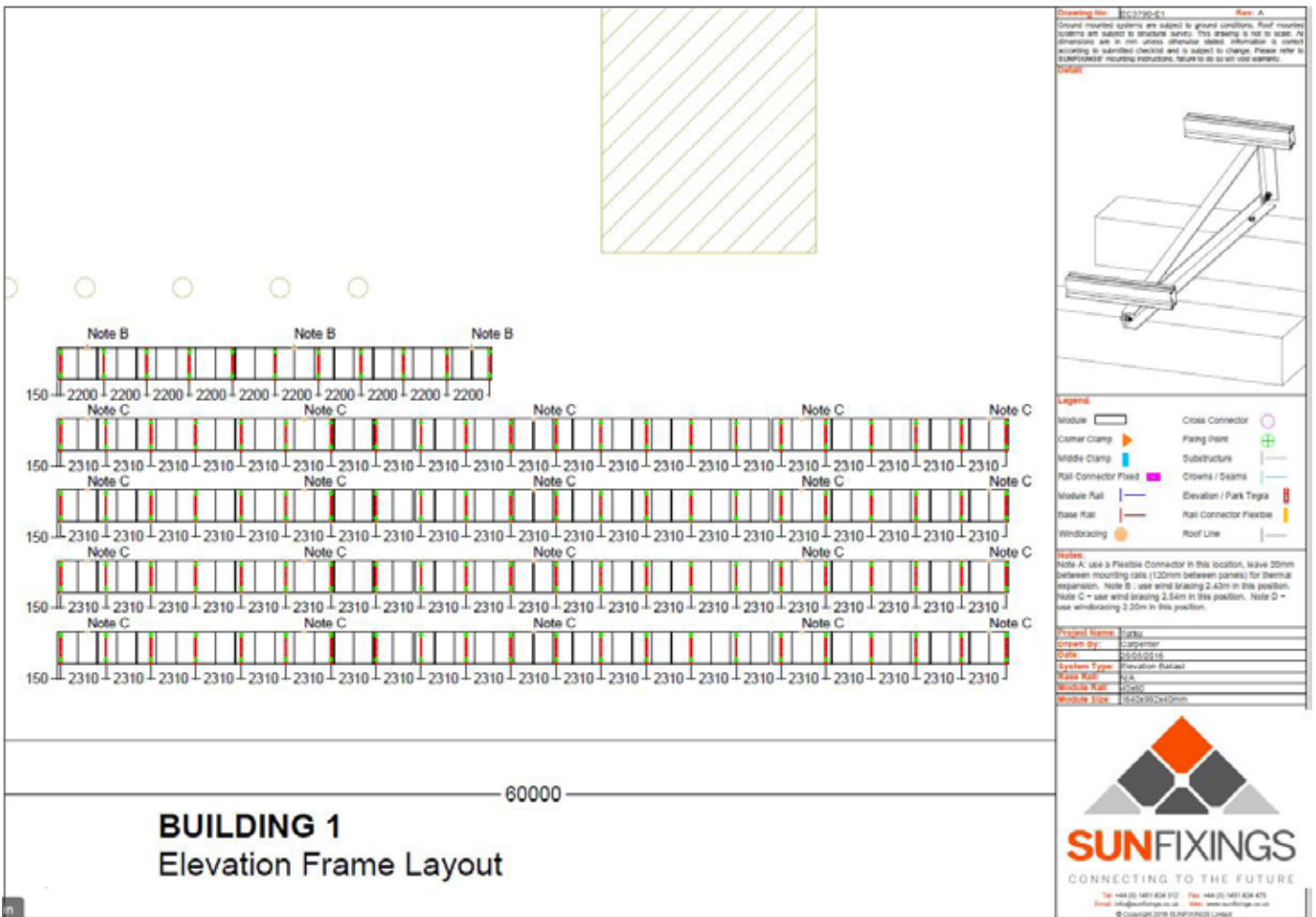
Check the layout

Tools & Items Required



Check the layout for:

- the position of the Elevation Frames
- distance between the Elevation Frames
- the position of the Wind Bracing, if your project needs it
- the position of Flexible Connectors, if your project needs them



3

Positioning the ballast

Tools & Items Required



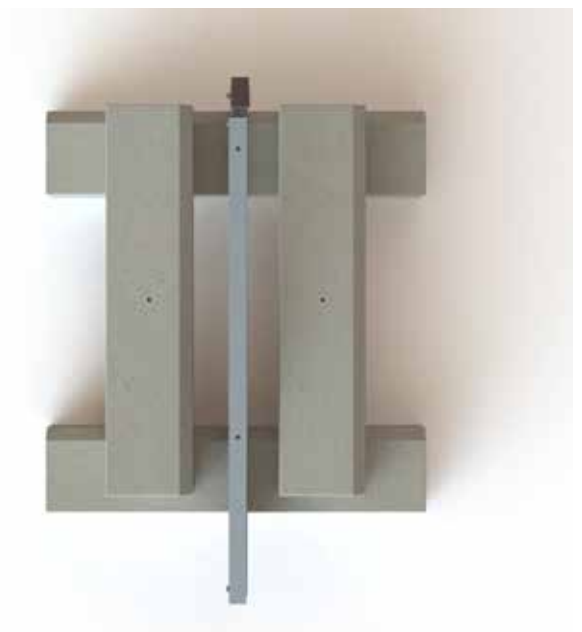
Layout



Ballast Block

The layout will tell you how much ballast is required per Elevation Frame.

Depending on how much ballast is required, position the blocks as shown below.



4

Pre-drilling the ballast block

Tools & Items Required



Battery Drill



Masonry Drill Bit *see table A



Ballast Block



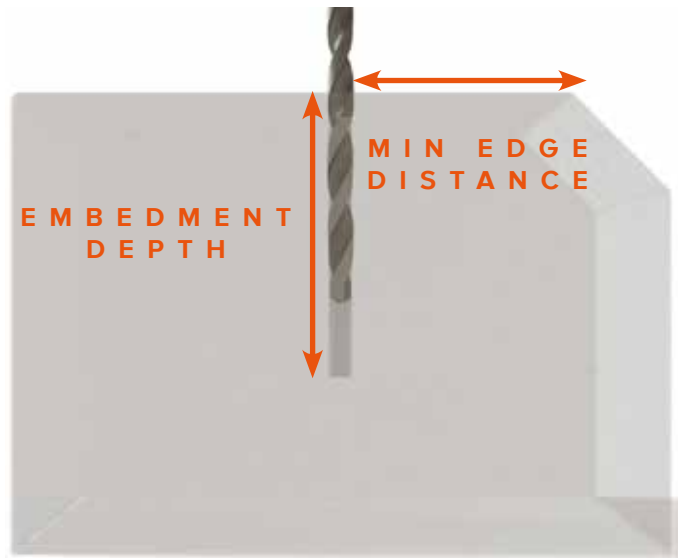
Mechanical Fixing



Chemical Fixing

Table A

Fixing Diameter Size	Embedment Depth	Min Edge Distance	Pre-Drill Hole
M10 Mechanical Fixing	70 mm	45 mm	10 mm
M12 Mechanical Fixing	90 mm	55 mm	12 mm
M10 Chemical Fixing	80 mm	45 mm	12 mm
M12 Chemical Fixing	95 mm	55 mm	14 mm



5

Pre-drilling the bottom of the Elevation Frame

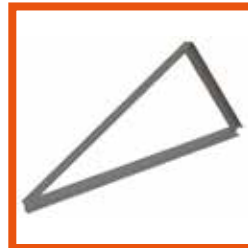
Tools & Items Required



Battery Drill



HSS Drill Bit
*see table B

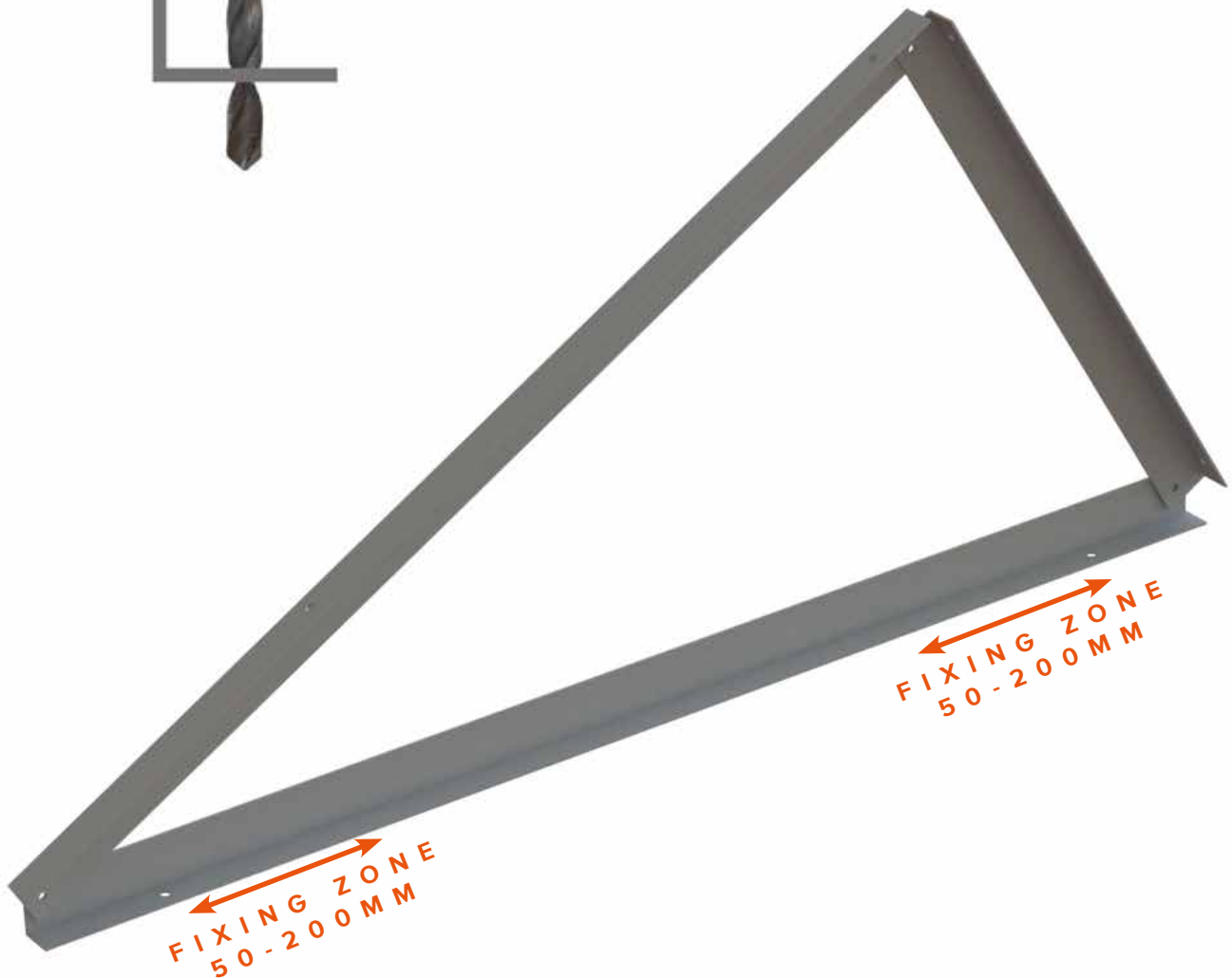


Elevation
Frame



Table B

Fixing Diameter Size	Pre-Drill Hole
M10 Mechanical Fixing	11 mm
M12 Mechanical Fixing	13 mm
M10 Chemical Fixing	11 mm
M12 Chemical Fixing	13 mm



6

Installing the Mechanical or Chemical Fixing

Tools & Items Required



Resin &
Application Tool



Chemical
Fixing

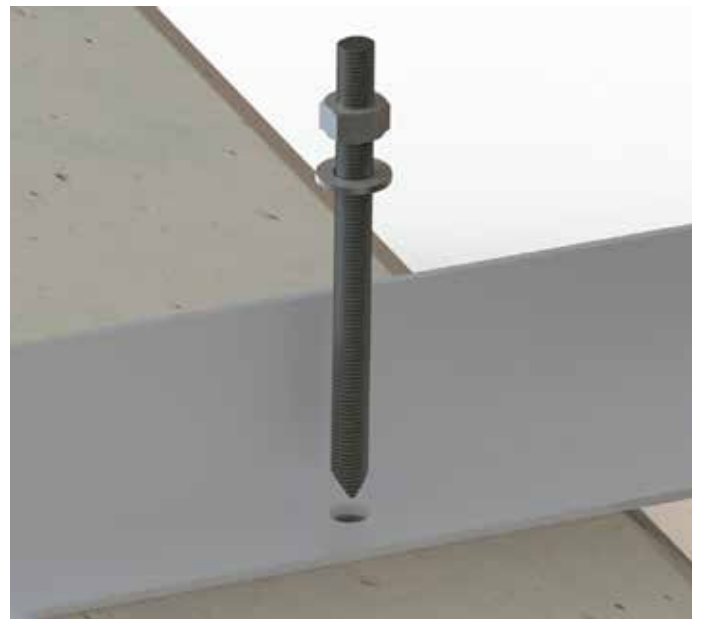
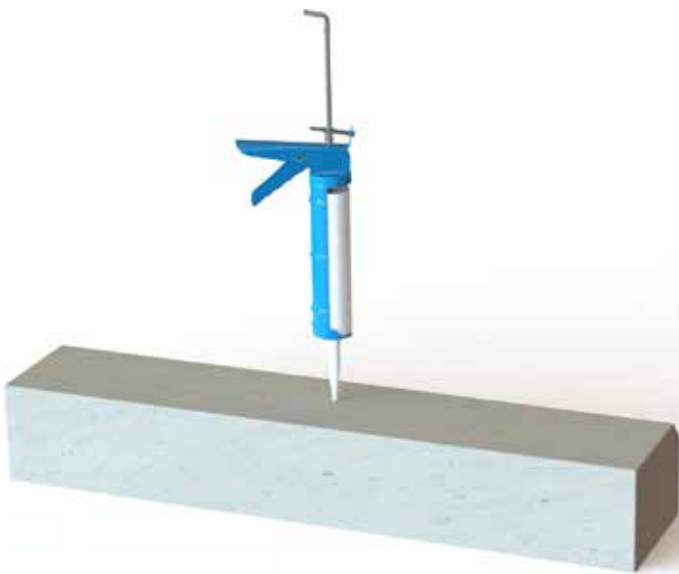


Hammer

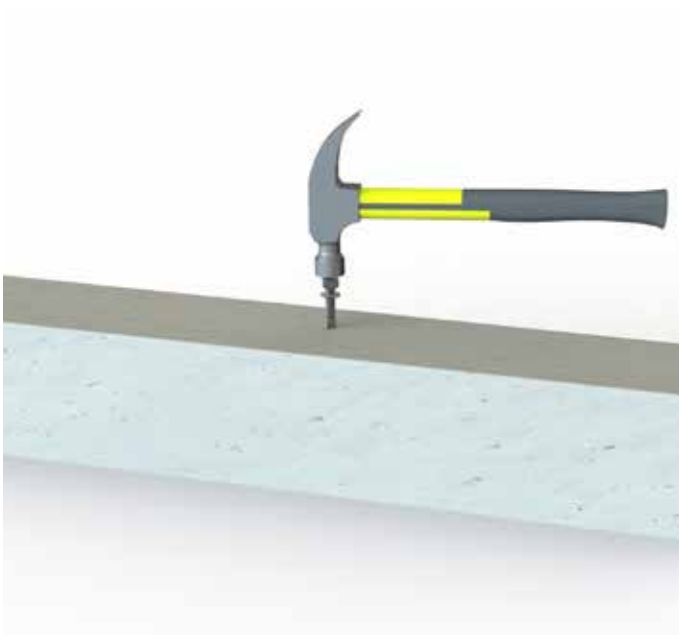


Mechanical
Fixing

For Chemical Fixing follow the instructions on the Resin tube & Application Tool.



For Mechanical Fixing, hammer it into the pre-drilled hole.



Tools & Items Required



Spanner



Chemical Fixing



Mechanical Fixing



Washer



Serrated Nut

Fixing Diameter Size	Spanner Size
M10 Mechanical Fixing	17 mm
M12 Mechanical Fixing	19 mm
M10 Chemical Fixing	17 mm
M12 Chemical Fixing	19 mm

Mechanical Fixing



Chemical Fixing



8

Tightening the bolts & nuts of the Elevation Frame

Tools & Items Required



13mm Spanner



6mm Allen Key



Cylinder Head
Screw



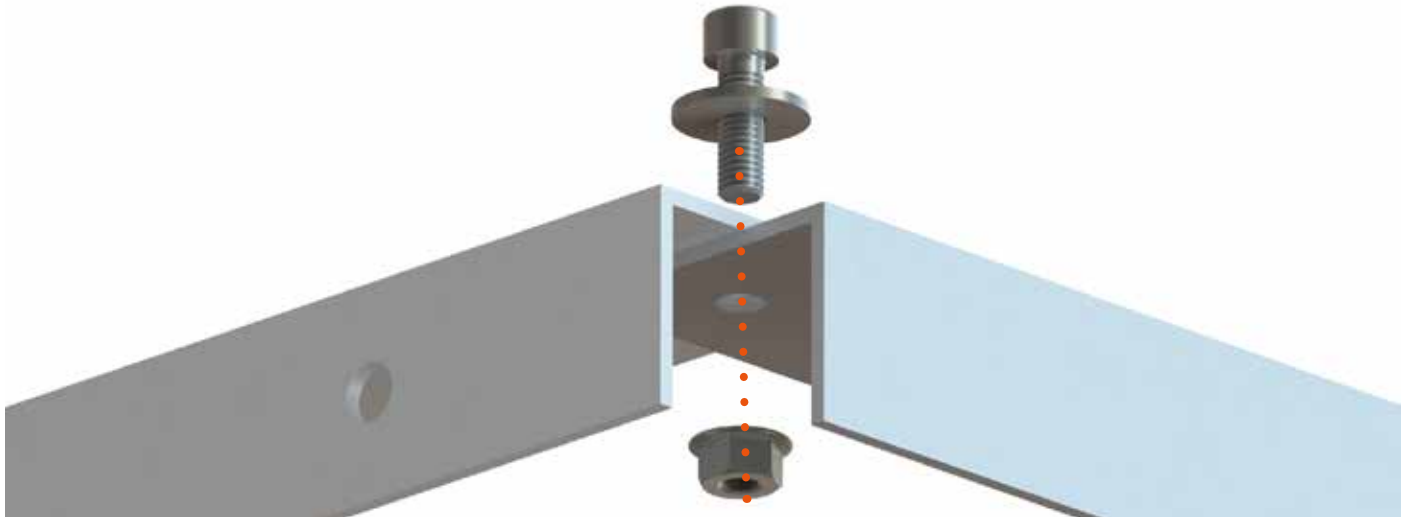
M8 Serrated
Nut



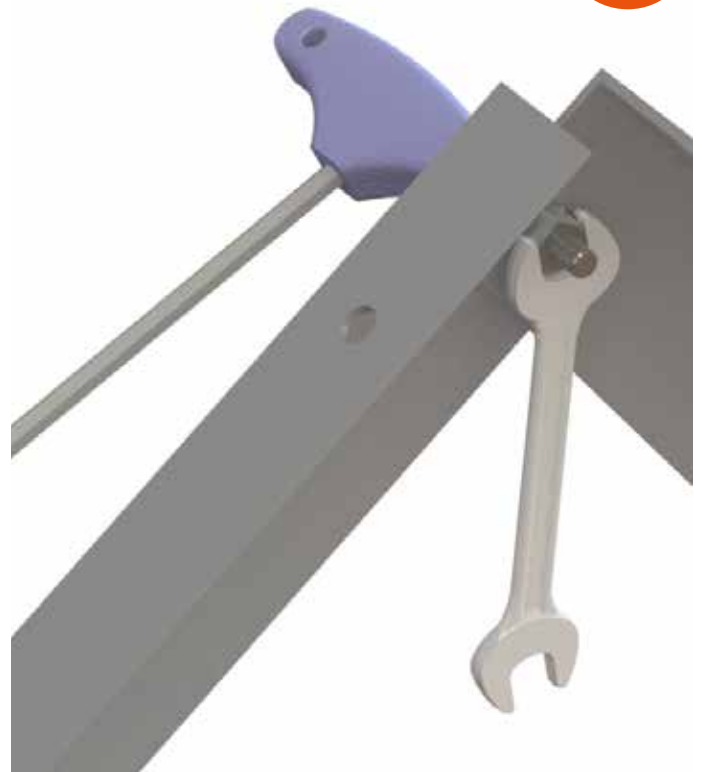
M8 Washer



Elevation
Frame



30Nm



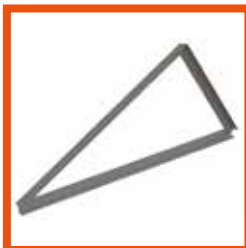
9

Attaching the Mounting Rails

Tools & Items Required



15mm Spanner



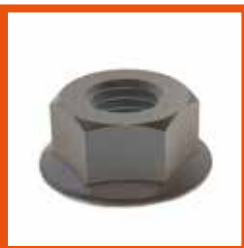
Elevation Frame



Mounting Rail

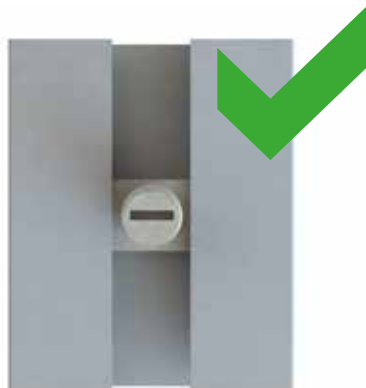
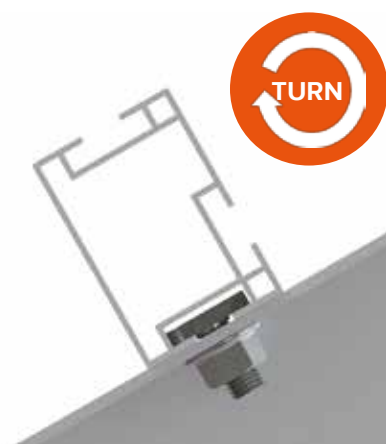
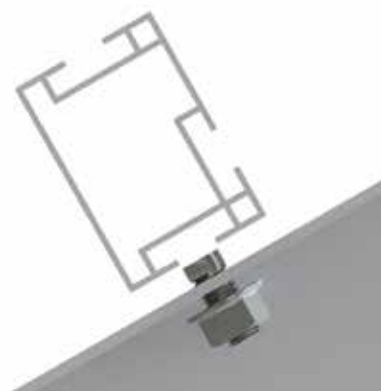


M10 T Bolt



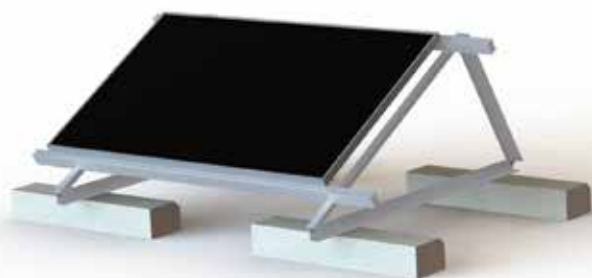
M10 Serrated Nut

There will already be holes in the top of the Elevation Frame for attaching the Mounting Rail.



Portrait Module

Landscape Module



10

Pre-drill pilot holes for the Wind Bracing

Tools & Items Required



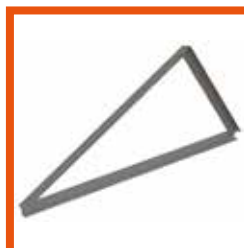
Layout



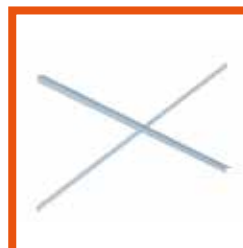
Battery Drill



9mm HSS Drill Bit



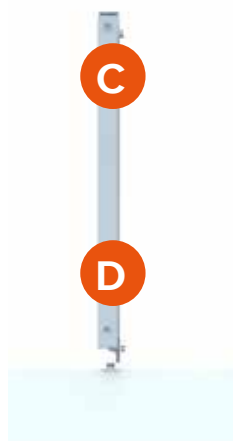
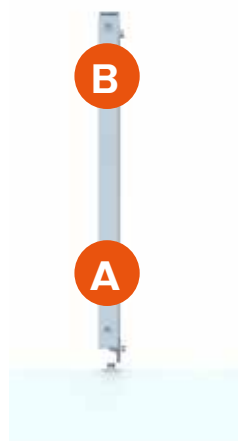
Elevation Frame



Wind Bracing Set

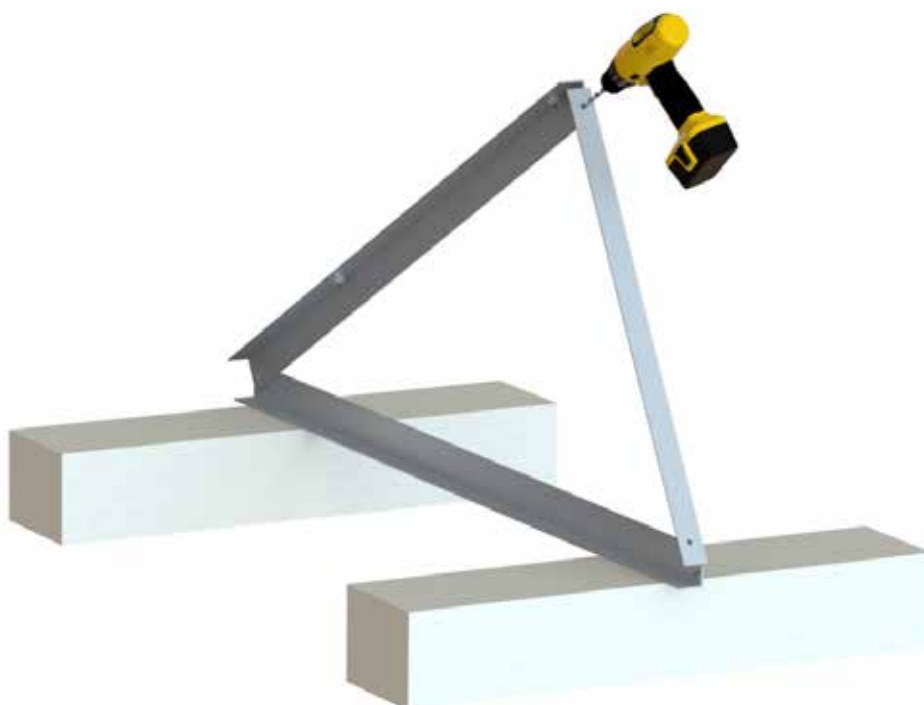
The layout will tell you where to position the Wind Bracing, if your project needs it. You only need to pre-drill the back of the Elevation Frames shown. Pre-drill a pilot hole (9mm diameter) for each A, B, C & D positions.

9mm
pre-drill
diameter



The Wind Bracing Set includes:

- 1x Flat Piece
- 1x L Piece
- 5x Cylinder Head Screws
- 5x M8 Serrated Nuts



11

Pre-drill pilot holes for the Wind Bracing

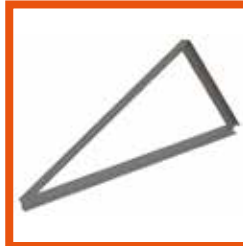
Tools & Items Required



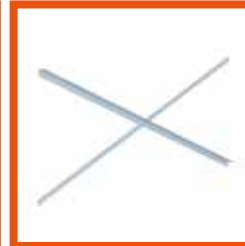
Battery Drill



9mm HSS Drill Bit



Elevation Frame

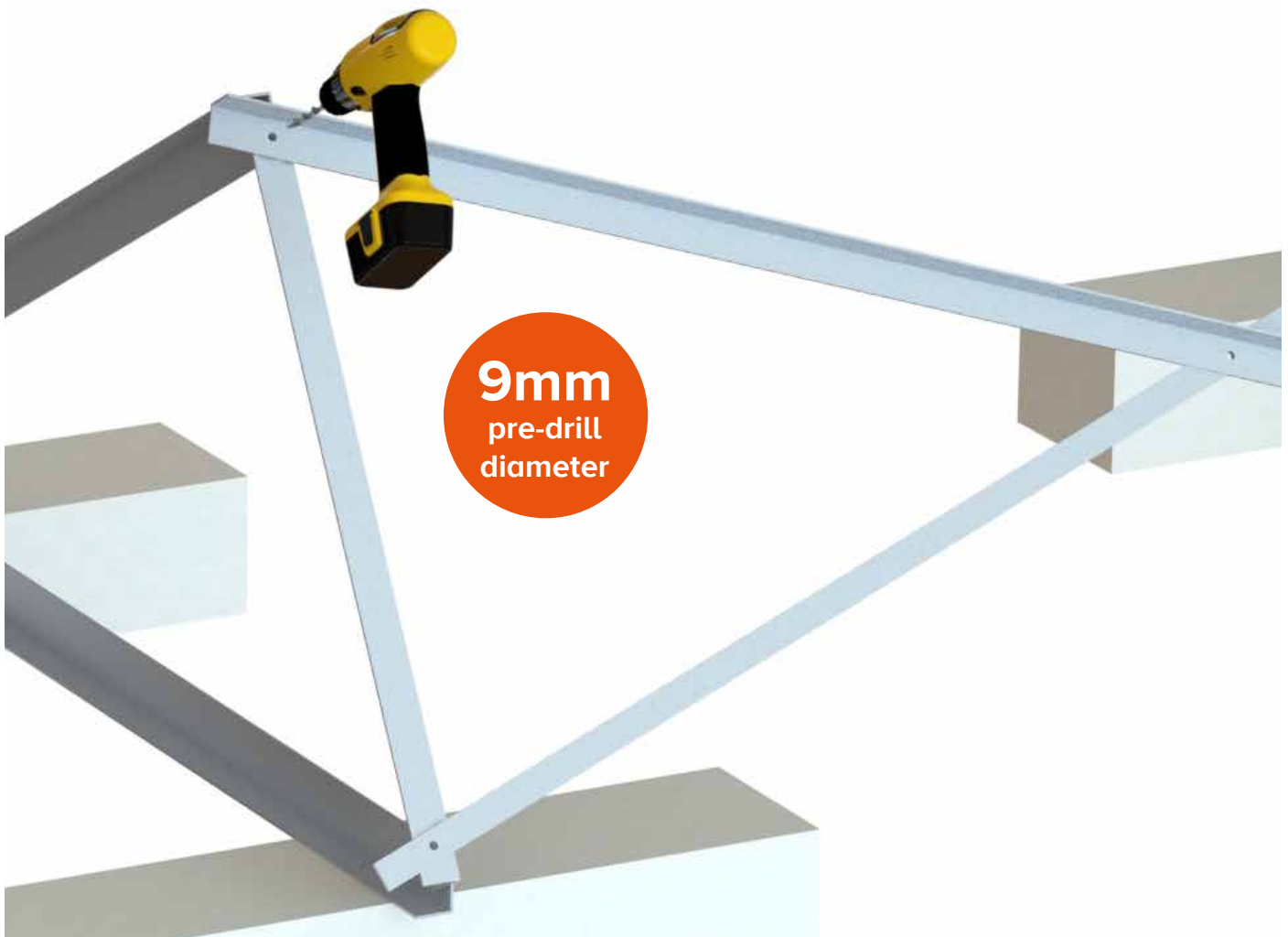


Wind Bracing Set

Pre-drill a pilot hole (9mm diameter) into each end of the Flat Piece, so that they match holes A and C.

Pre-drill a pilot hole (9mm diameter) into each end of the L Piece, so that they match holes B and D.

Pre-drill a pilot hole (9mm diameter) into the Flat Piece and L Piece, where they cross over in the middle.



12

Fitting the Wind Bracing

Tools & Items Required



8mm Allen Key



13mm Spanner



Cylinder Head Screw



M8 Serrated Nut



M8 Washer



Wind Bracing

Place the Flat Piece so that it sits over holes A & C. Fix using Cylinder Head Screw, M8 Washer and M8 Serrated Nut.

Place the L Piece over the top of the Flat Piece, so it sits over holes B & D. Fix using Cylinder Head Screw, M8 Washer and M8 Serrated Nut.

Fix the centre with a Cylinder Head Screw, M8 Washer and M8 Serrated Nut.

