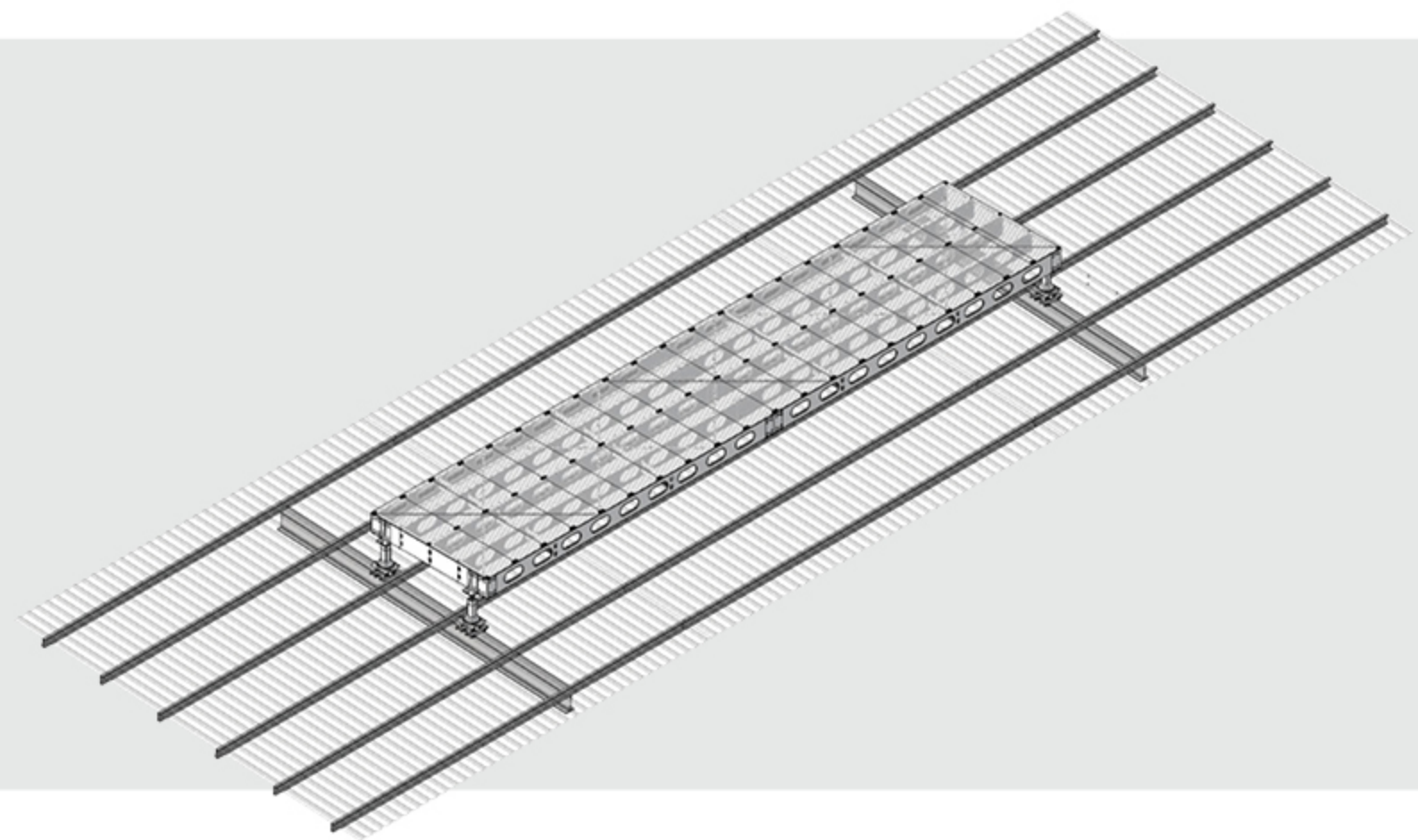


Span+

Assembly Instruction Manual



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Aeromine Platform Assembly Manual

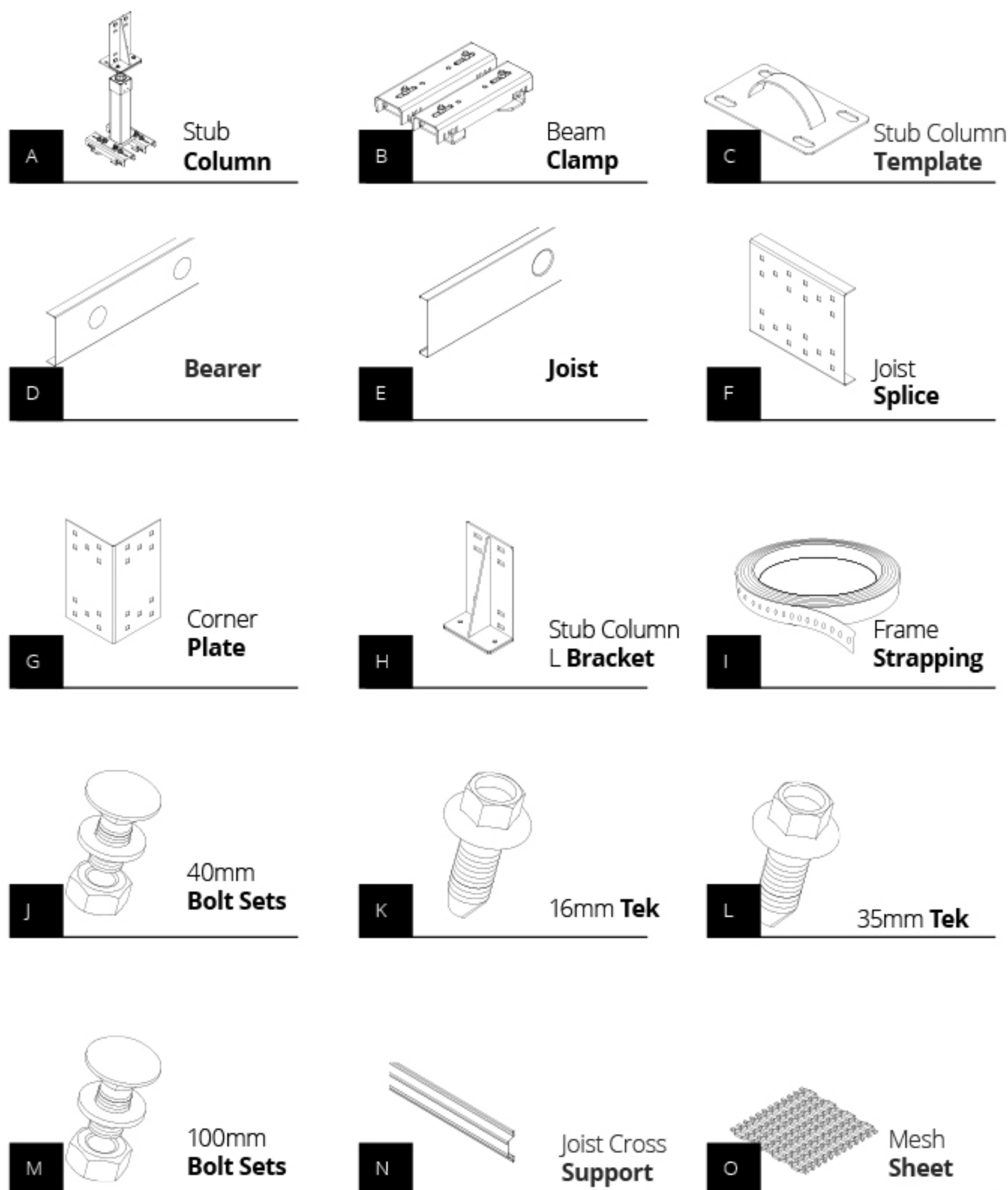
Document Version: 24-10-29-v2.1

Contents

- > Stub Column Install
- > Span+ Platform Install

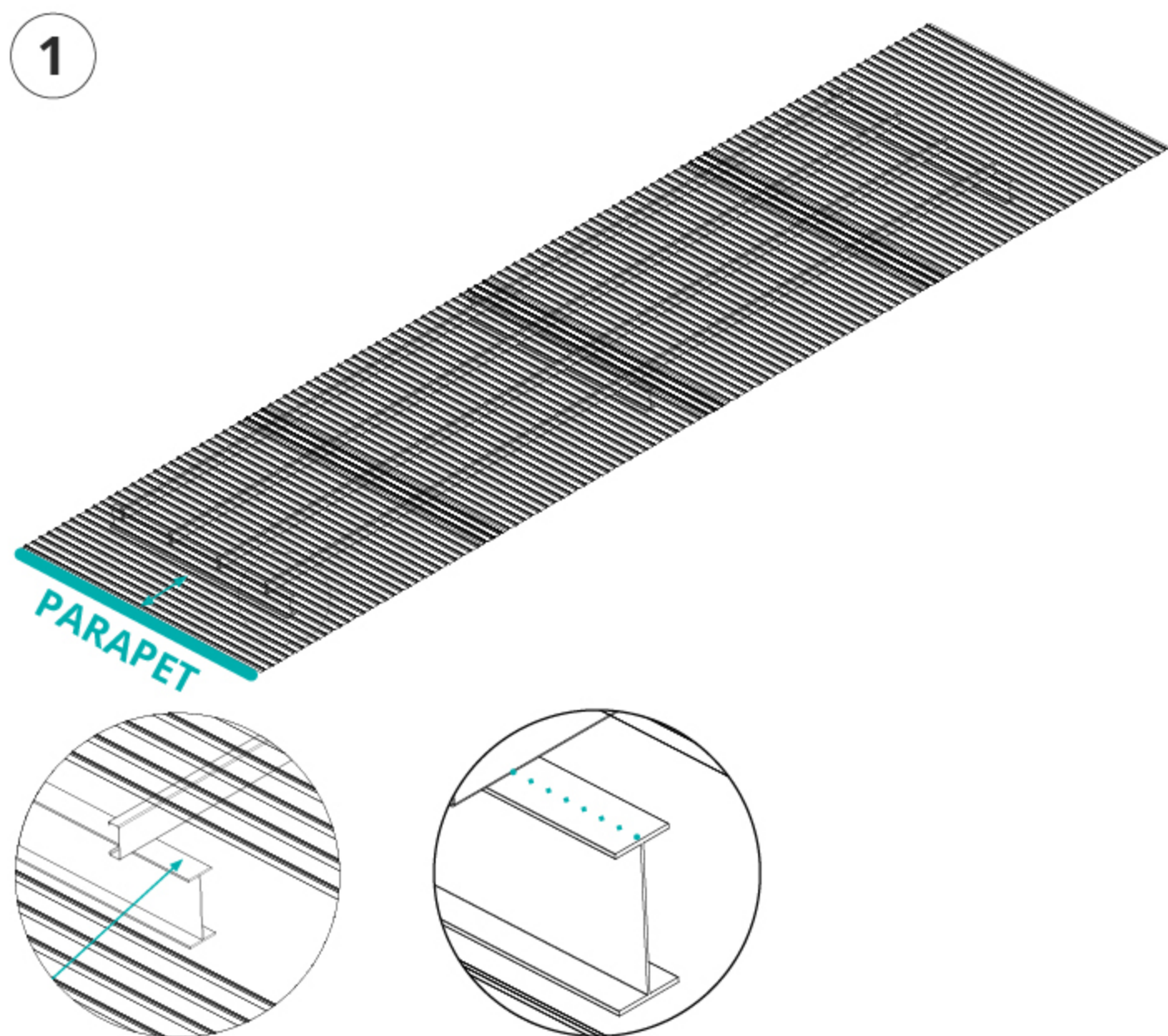
Tools	Parts
Gloves	Stub Column Template
Drill	Stub Column
Impact Driver	Rubber Flashing
Ratchet Wrench	Bearer
Tin Snips	Joist
150mm-200mm ½" Extension bar	Joist Splice
18mm Deep Socket	Mesh Sheet
13mm Socket	Joist Fly-Brace
Tape Measure	M12 Bolts – 40mm, 80mm
Black Marker	M10 Bolt – 40mm, 80mm, 100mm
Spirit Level	Tek Screws – 35mm, 20mm, 16mm
Roofing Silicone	Mesh Hold Down Disc
Clean Rag	Certification Plate
Isopropyl Alcohol Cleaner	Speed Bracing and Tensioners

Assembly Parts



Stub Column Installation

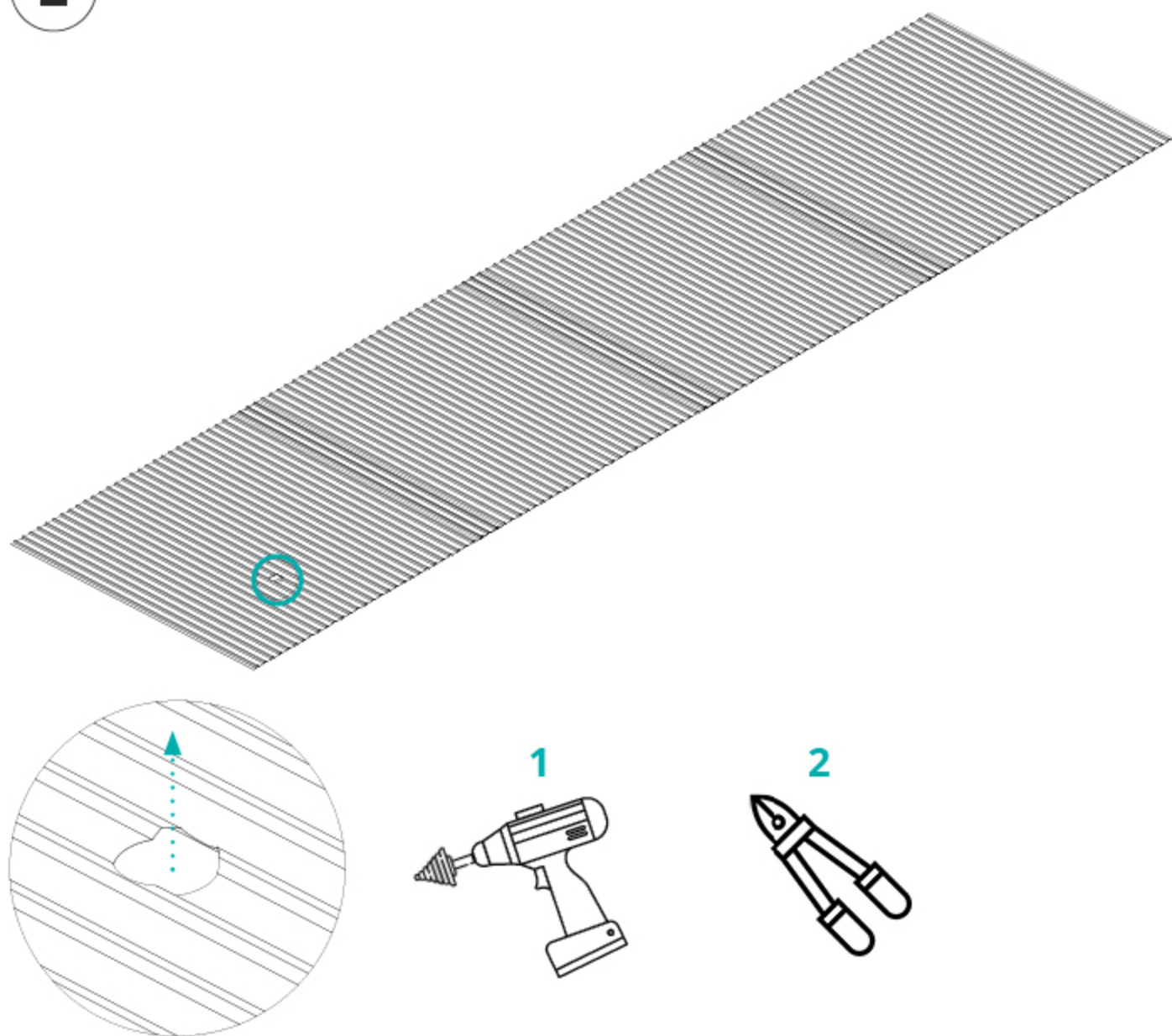
Span+ Rafter Mounted Platform



1.First, establish the location of the platform on the roof by referring to the System Layout Design. Next, locate the roof rafters. If access to the inside of the building is available, measure the centres of the rafters. If no access is available, refer to drawings and, working from the parapet, measure to the approximate location of the rafter located under the platform and lift the roof sheet to confirm location.

Span+ Rafter Mounted Platform

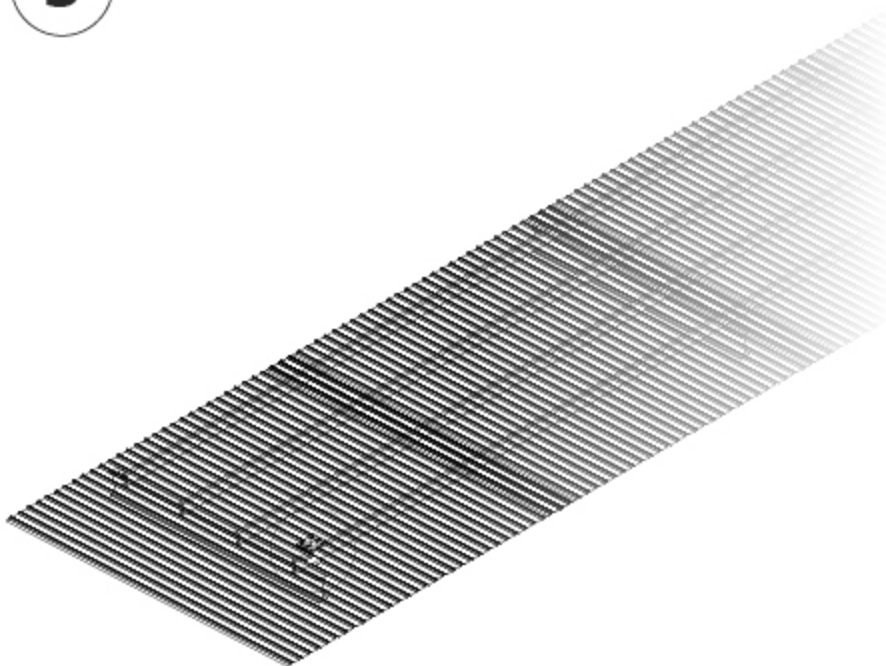
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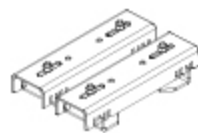
2. Mark the centre of the rafter and translate a line on the roof-sheet to the location of the platform's end, at the lowest point down-roof. Mark the location of the centre of the first Stub Column, ensuring the stub column's position does not conflict with any purlins. Measure the remaining Stub Column locations up-roof at 2400mm centres, ensuring that they do not conflict with any purlins. Use a step drill bit to drill out the penetration's corners and cut with tin snips.

Span+ Rafter Mounted Platform

3



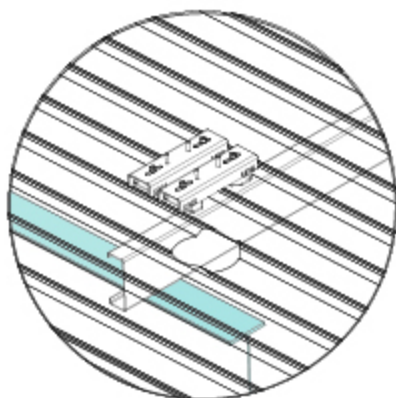
Parts required



Beam
Clamp



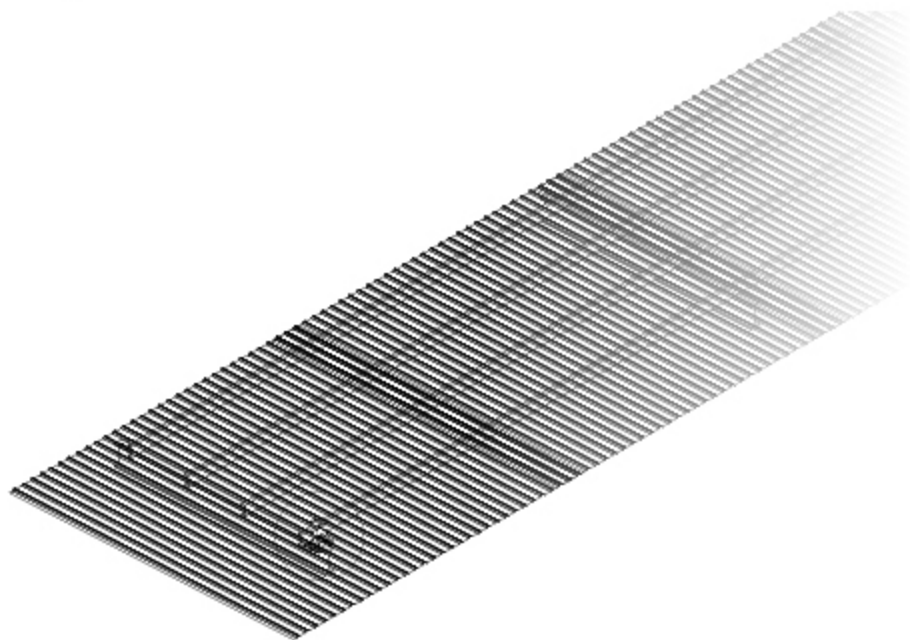
M12 Bolt Set w/
Thin Nut



3. Insert the first **Beam Clamp** into the penetration and add an **M12 Washer**, a **Thin M12 Nut** next and a **Standard M12 Nut** last. Leave the nuts finger-tight. Insert the next Beam Clamp into the penetration and move the bolts until they are square and 150 – 200mm apart.

Span+ Rafter Mounted Platform

4



Parts required



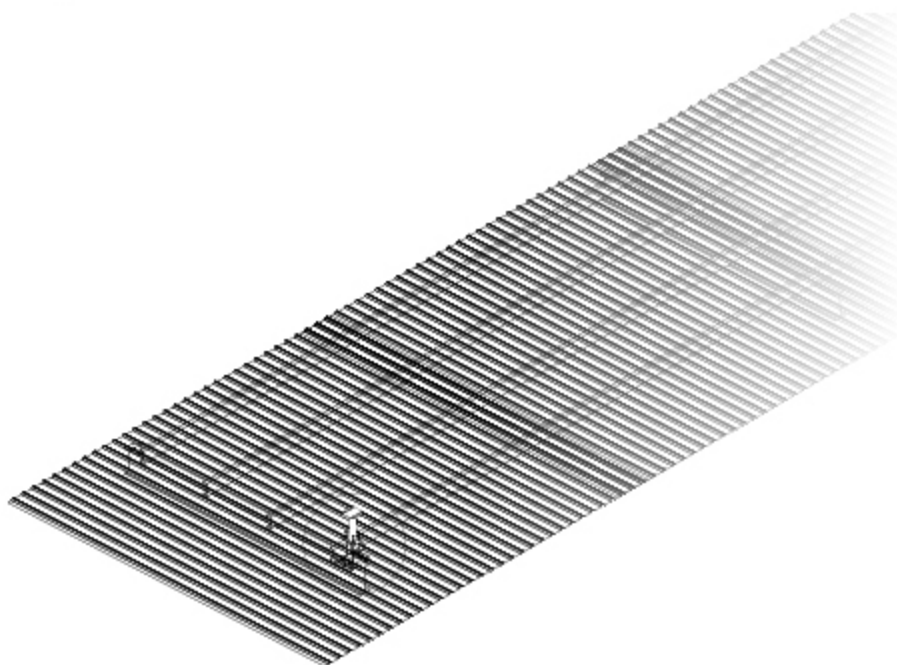
Stub Column
Template



4. Insert the **Stub Column Template** onto the Beam Clamps and adjust the beam clamps to the correct position.

Span+ Rafter Mounted Platform

5



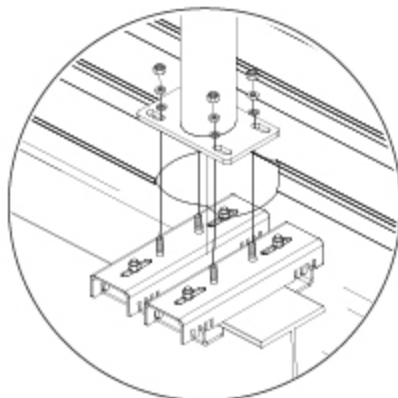
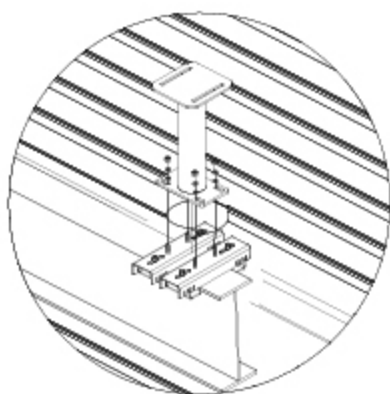
Parts required



Stub
Column



M12 Bolt Set w/
Thin Washer

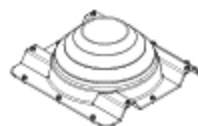


5. Insert the **Stub Column** onto the Beam Clamps and add an **M12 Washer**, a **Thin M12 Nut** next and a **Standard M12 Nut** last. Use an impact driver or a ratchet to tighten all nuts.

Span+ Rafter Mounted Platform

6

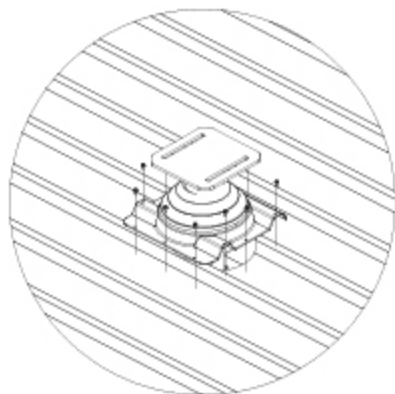
Parts required



Rubber Flashing



16mm
Tek Screws



1



2



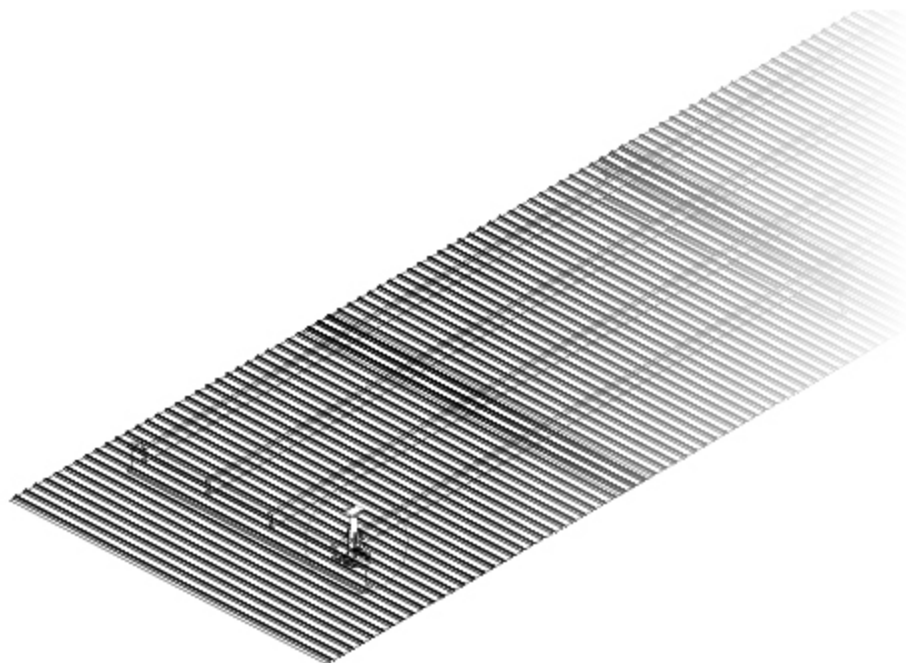
3



6. Clean the roof sheet around the penetration with an isopropyl alcohol solution and a clean rag, then wrap the **Rubber Flashing** around to the Stub Column and push down firmly to seal. Use pliers to join the clamps of the Rubber Flashing together and fix to the roof sheet using **16mm Tek Screws**. Finally, add a bead of roofing silicone around the perimeter of the Rubber Flashing, and over each screw.

Span+ Rafter Mounted Platform

7



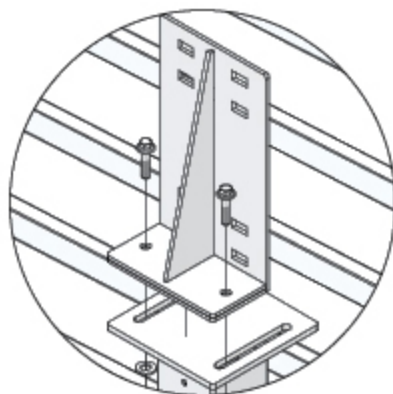
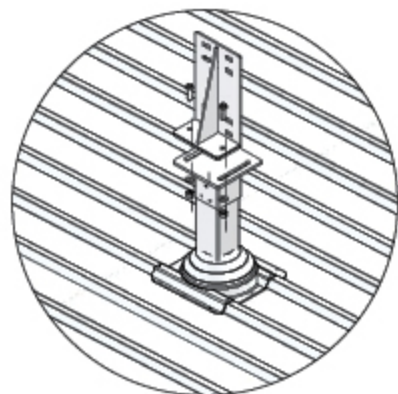
Parts required



L-Bracket



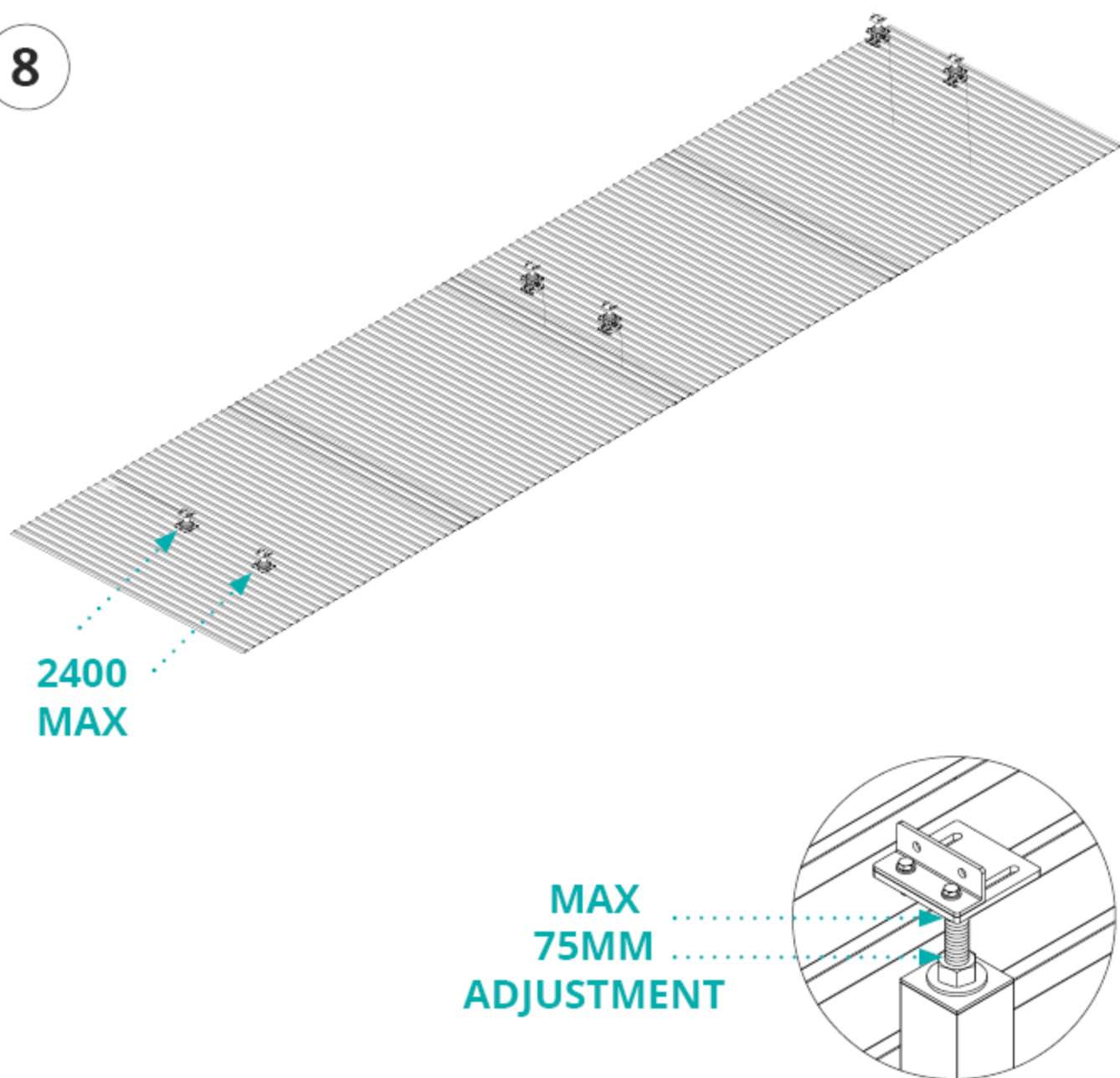
40mm M12
**Bolt Set w/
Thin Washer**



7. Add the **L-Bracket** to the Stub Column using **4 x 40mm M12 Bolts** and fix until finger-tight only.

Span+ Rafter Mounted Platform

8



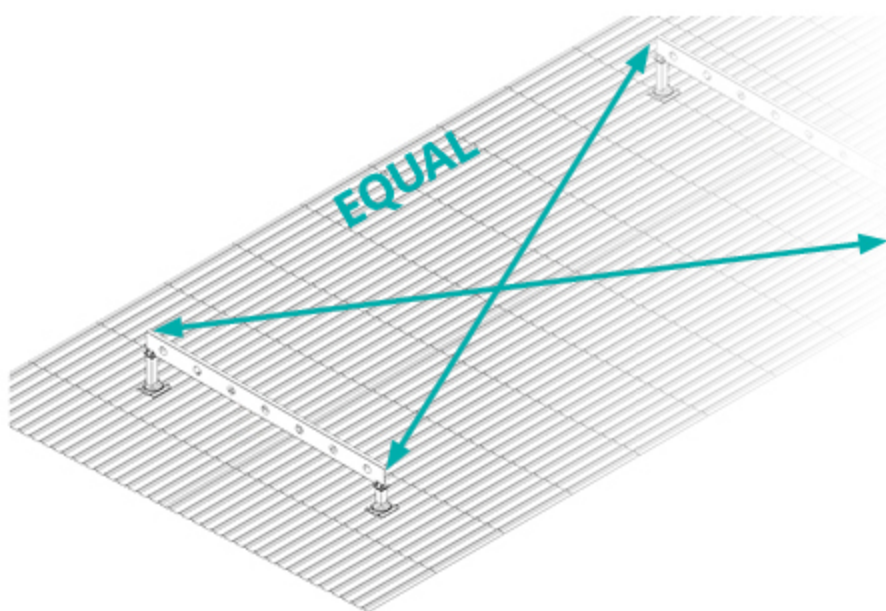
8. Continue to add the next Stub Columns to the first rafter at **no greater than 2400mm centres**, using the procedure above. Ensure that the stub columns do not conflict with any purlins. Then, fix the remaining Stub Columns over the next rafters.

Span+

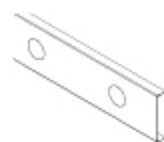
Platform Install

Span+ Rafter Mounted Platform

9



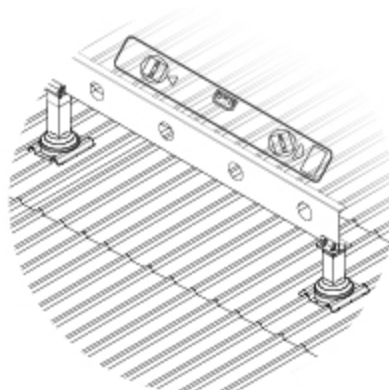
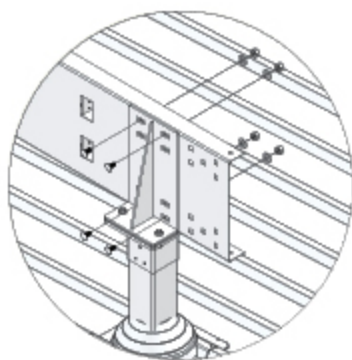
Parts required



Bearer



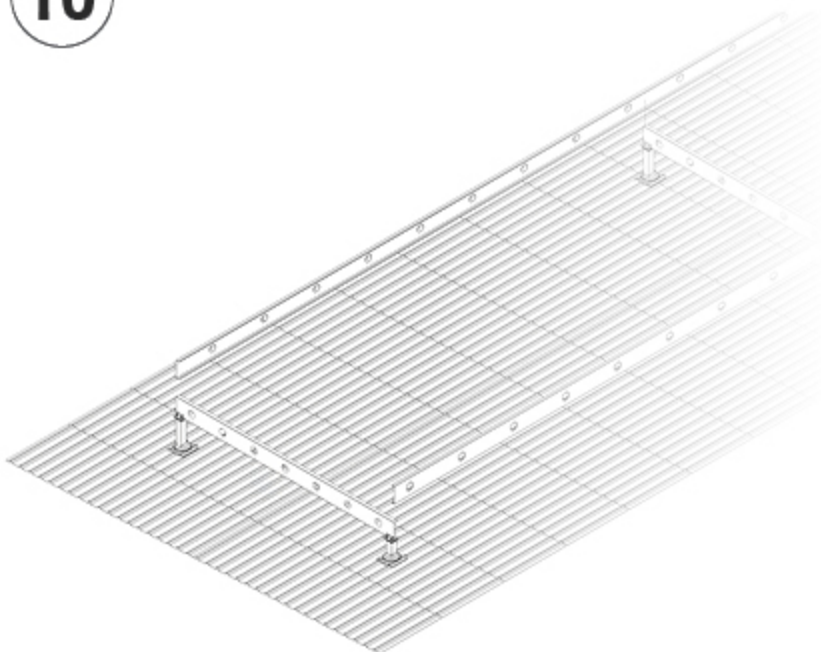
40mm M12
**Bolt Set w/
Thin Washer**



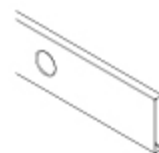
9. Place the two outside **Bearers** onto the Stub Columns, and fix to the L-Brackets using **2 x 40mm M12 Bolt Sets**. Check the frame for square by measuring the diagonals and making sure they are equal and adjust the L-Brackets accordingly. Check the stubs are level and adjust by winding the threads out (max 75mm). Tighten the nut at the bottom of the thread with a spanner.

Span+ Rafter Mounted Platform

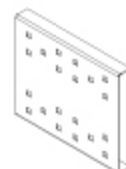
10



Parts required



Joist



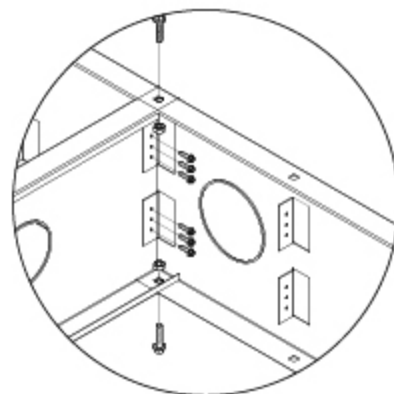
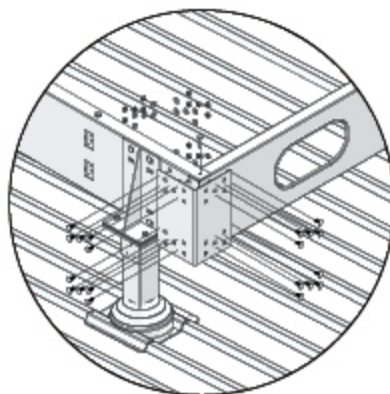
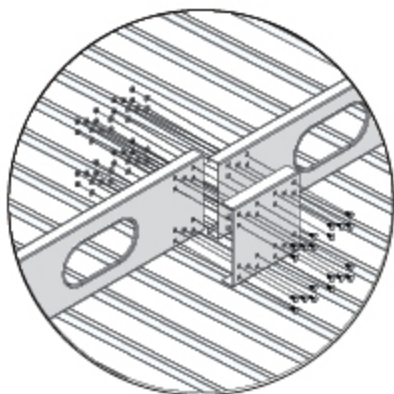
Joist Splice



Corner Plate



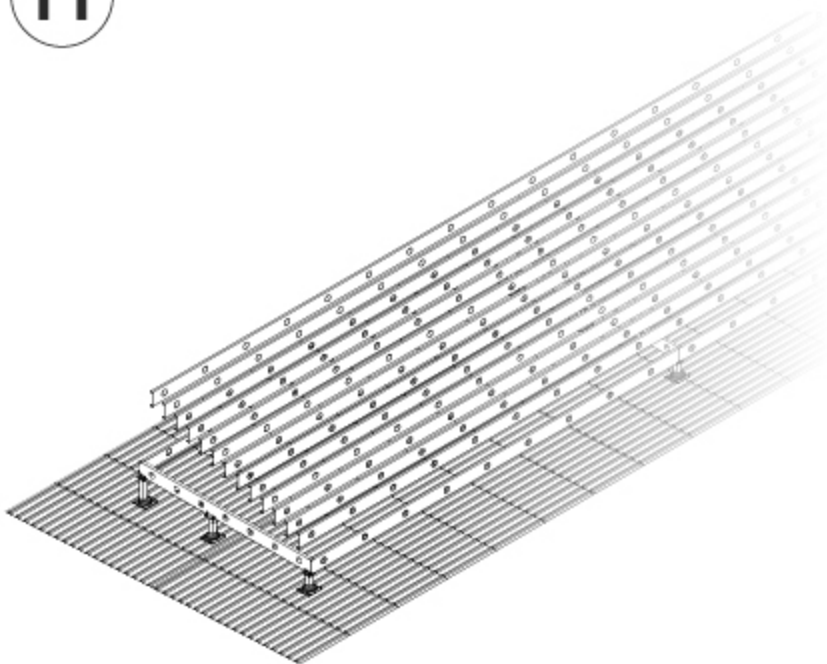
40mm M10 Bolt Sets



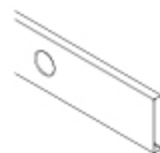
10. Insert the two outer **Joists** to the angles on the Bearers and fix in place using **6 x 20mm Tek Screws**. Again, check for square and adjust the outer frame. If Joists are greater than 6000mm, they will be supplied in two parts, use the **Joist Splice** and **20 x 40mm M10 Bolt Sets** to join the Joists together

Span+ Rafter Mounted Platform

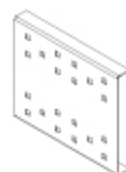
11



Parts required



Joist



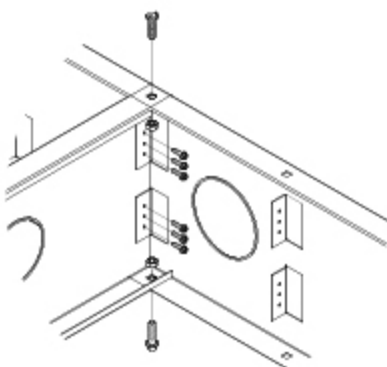
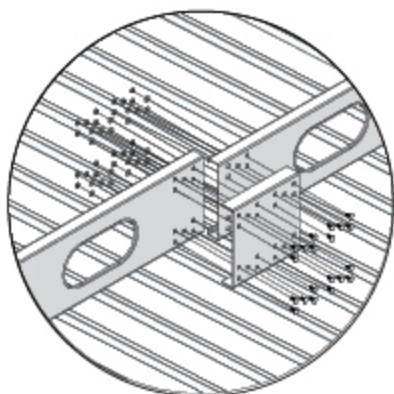
Joist Splice



40mm M10 Bolt Sets

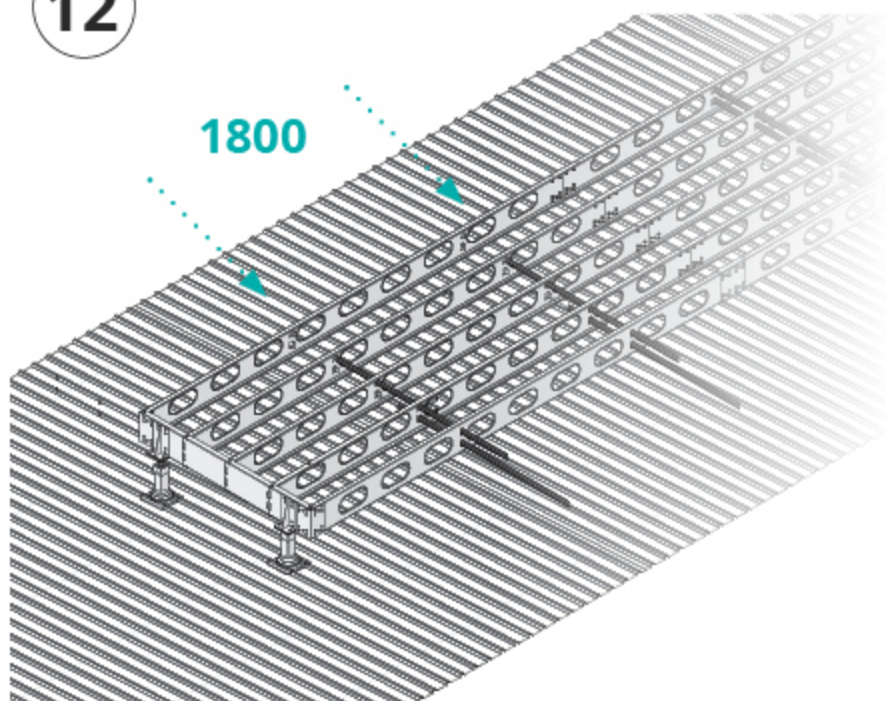


20mm Tek Screws



11. Insert the remaining Intermediate Joists, and fix to the Bearer tabs using **6 x 20mm Tek Screws** at each tab and **40mm M10 Bolt Sets** top and bottom.

Span+ Rafter Mounted Platform

12**1800**

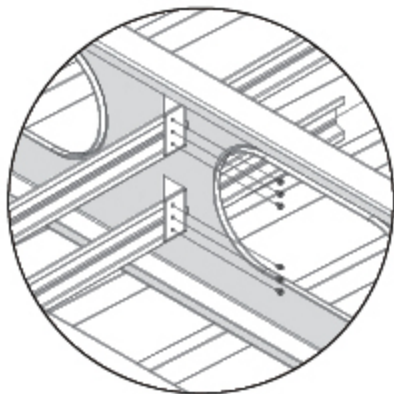
Parts required



Joist
Cross-Support



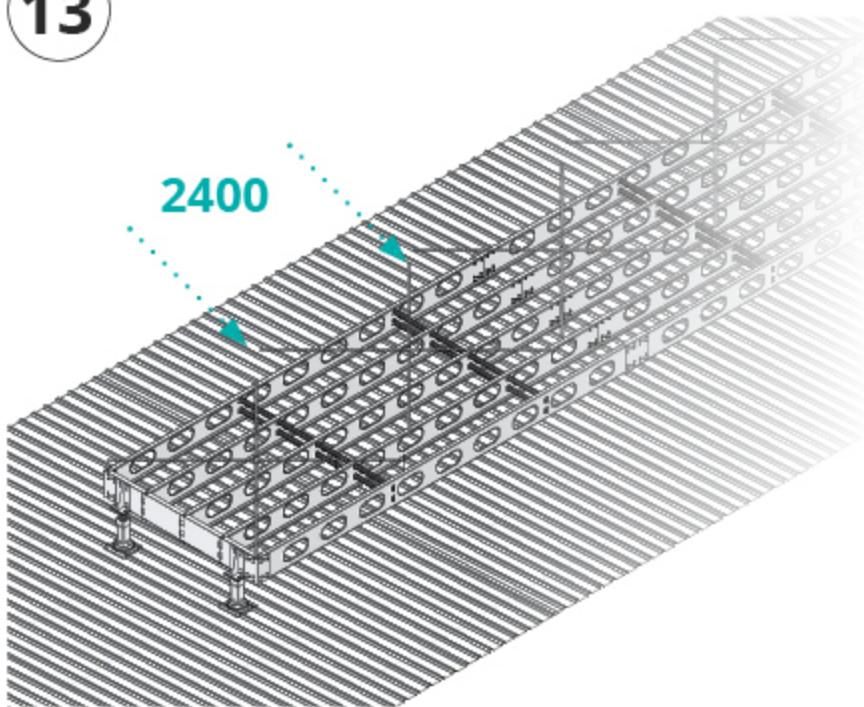
20mm
Tek Screws



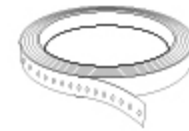
12. Fix the **Joist Cross-Support** across each of the Joists at 2400mm centres, using **2 x 20mm Tek Screws**.

Span+ Rafter Mounted Platform

13



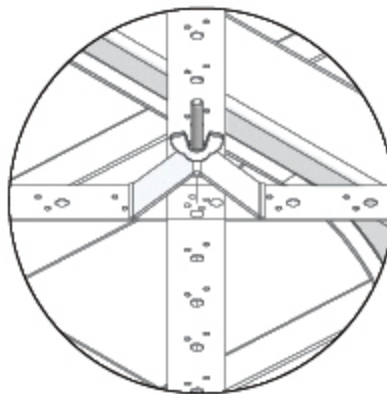
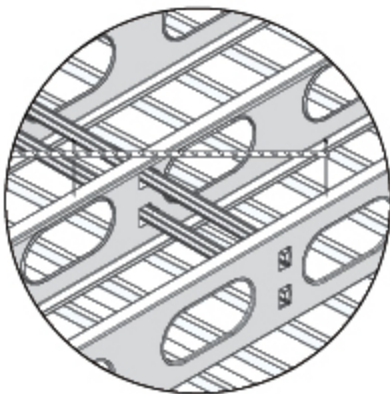
Parts required



Frame
Strapping



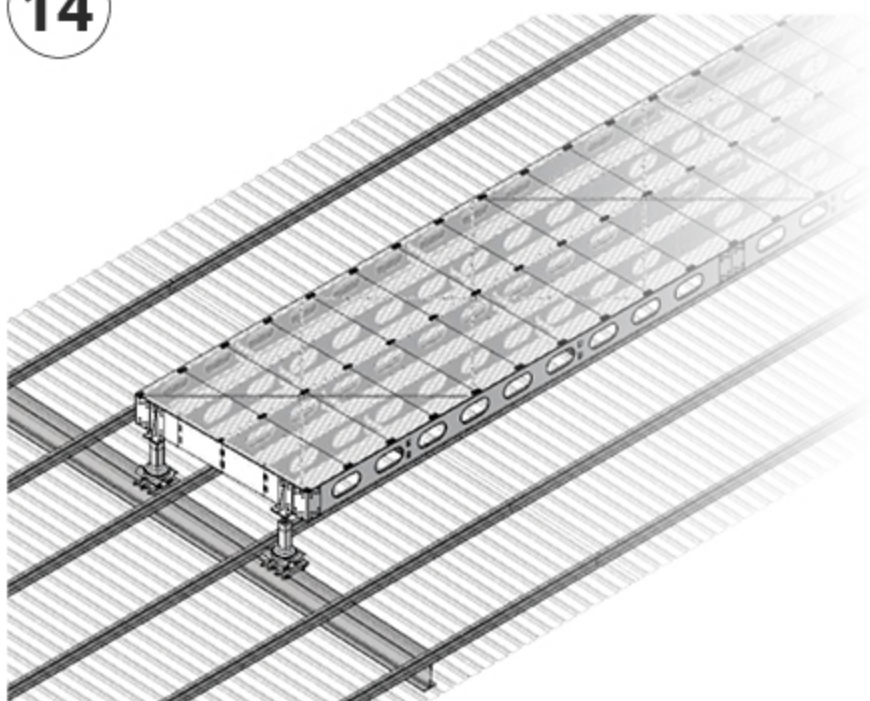
20mm
Tek Screws



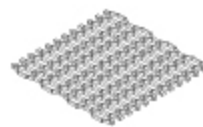
13. Referring to the structural shop drawing, fix **Frame Strapping and Tensioners** to the underside of the platform mesh as illustrated, using **20mm Tek Screws**. **Note:** Max 2400mm Intervals.

Span+ Rafter Mounted Platform

14



Parts required



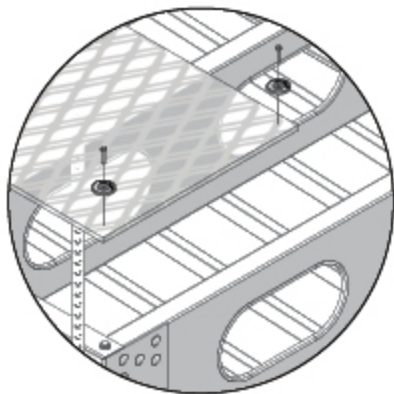
Mesh
Sheet



Hold-Down
Disc



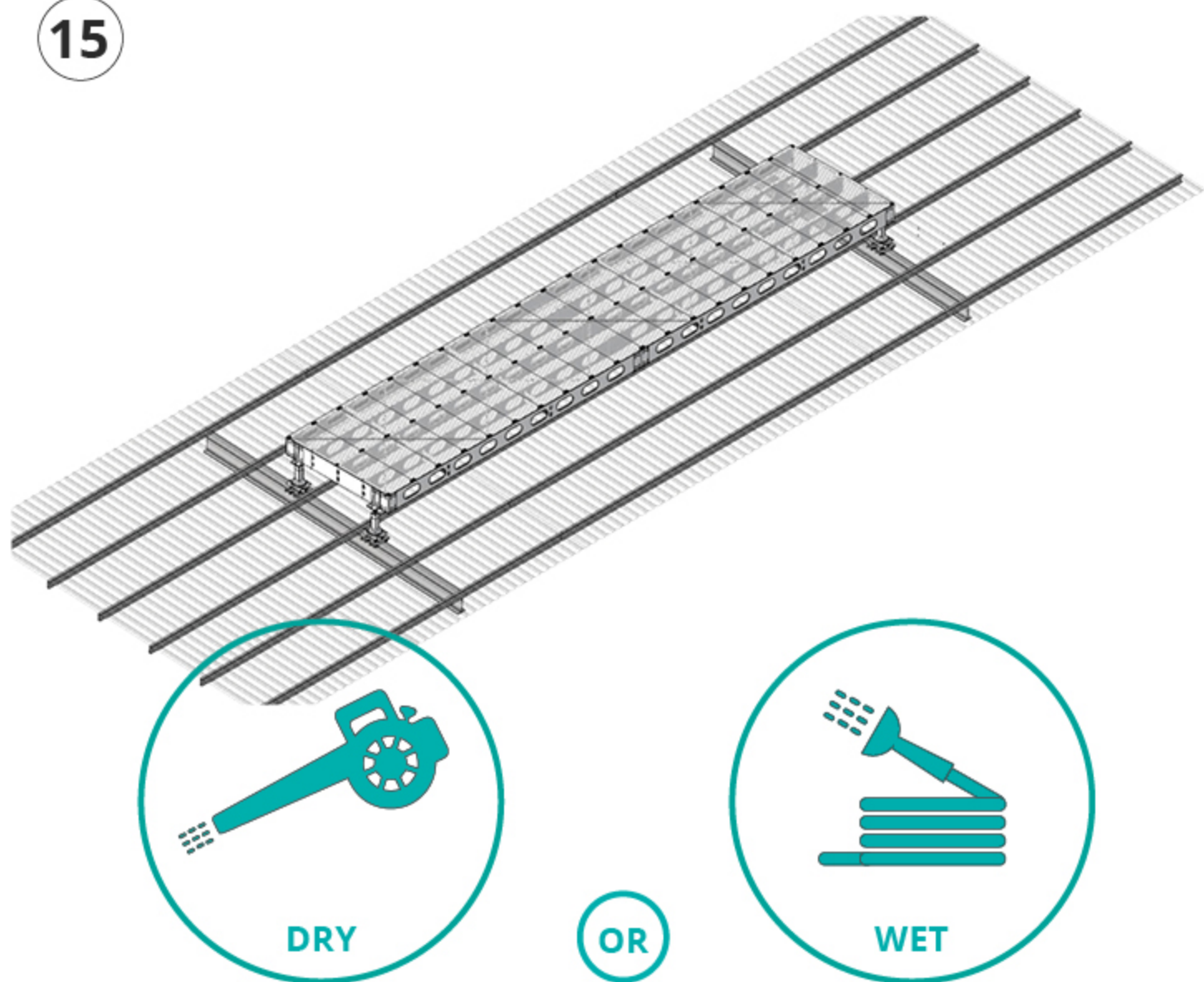
35mm
Tek Screws



14. Fix the **Mesh Sheets** to each of the Joists in the second full diamond at each edge of the Mesh Sheet, using a **35mm Tek Screw** and **Hold Down Disc**.

Span+ Rafter Mounted Platform

15



15. Vacuum any swarf from the roof before cleaning with a petrol blower, if the roof is dry and a hose if the roof is wet.



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