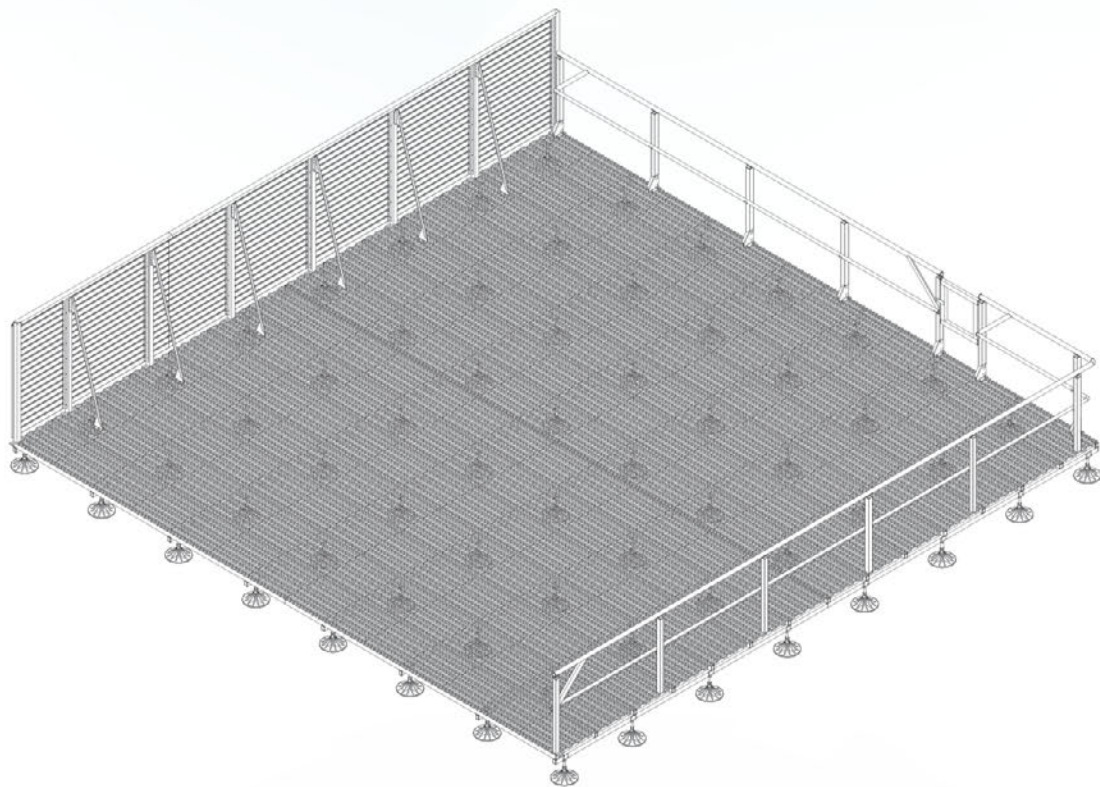


GUARDRAIL

Assembly Instruction Manual



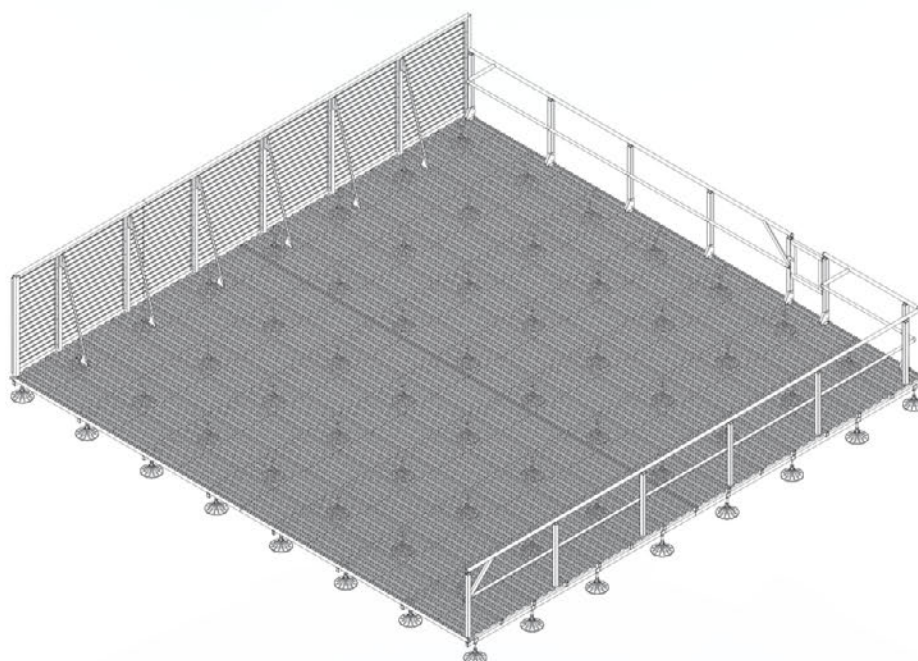
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Guardrail Assembly Instruction Manual

Contents



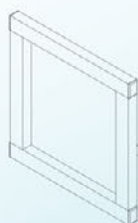
**Guardrail
Post**



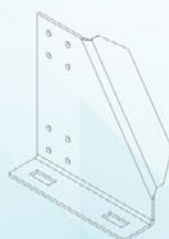
**Handrail
Pipe**



**Kneerail
Pipe**



**Guardrail
Gate**



**Post
Brace**



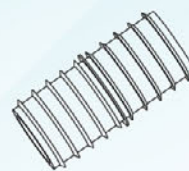
**Post Brace
Strut**



Handrail
Bend



Kneerail
Bend



Handrail
Splice



Kneerail
Splice



Handrail
Cap



Kneerail
Cap



40mm **Hex Bolt Sets**
40mm **Domed Bolt Sets**
M10 **Rivnuts**

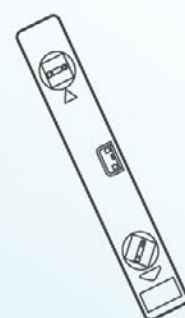
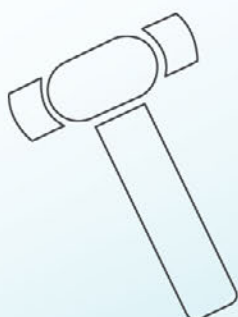


20mm **Tek Screws**
75mm **Tek Screws**
40mm **Washers**



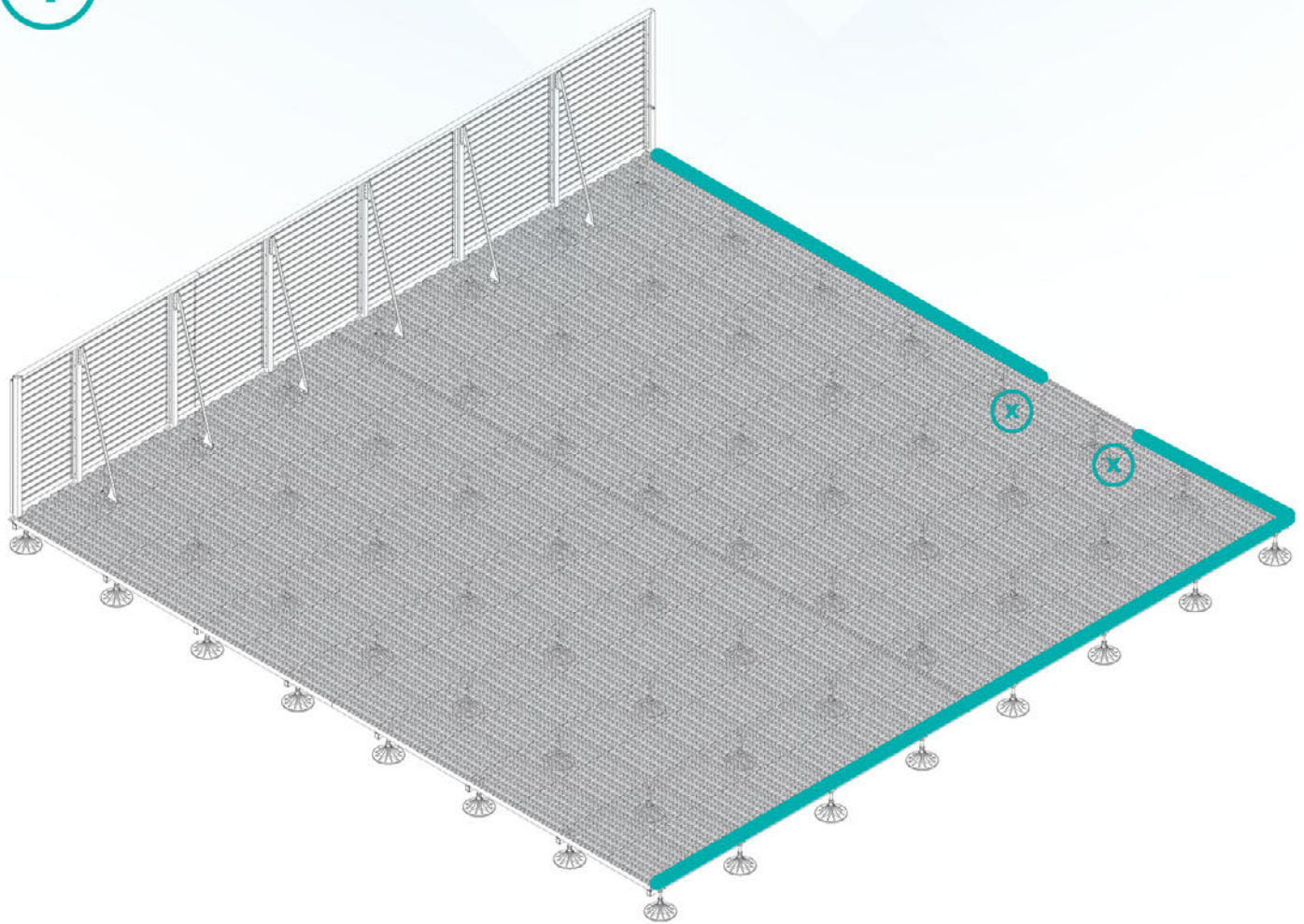
Gate
Hinge

Tools required



Assembly

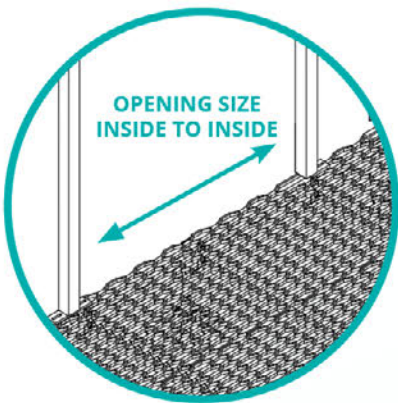
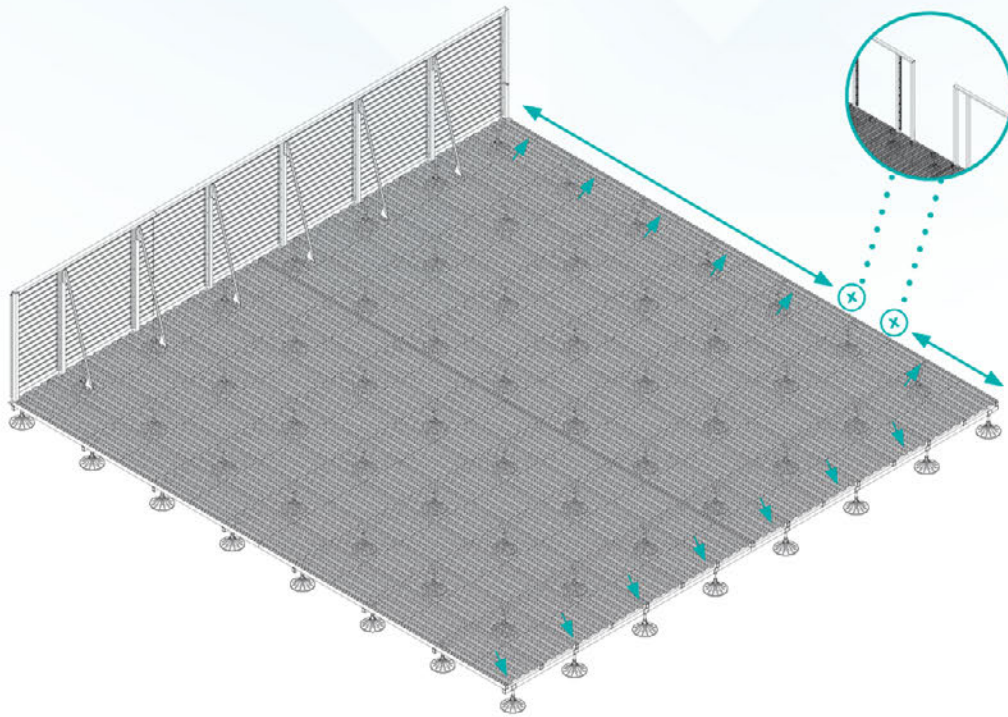
1



Assembly description

1. Establish from your structural drawing which sides the Guardrail will be fitted to. If there are any access gaps, mark the location of the Guardrail ends and access gaps on the platform frame.

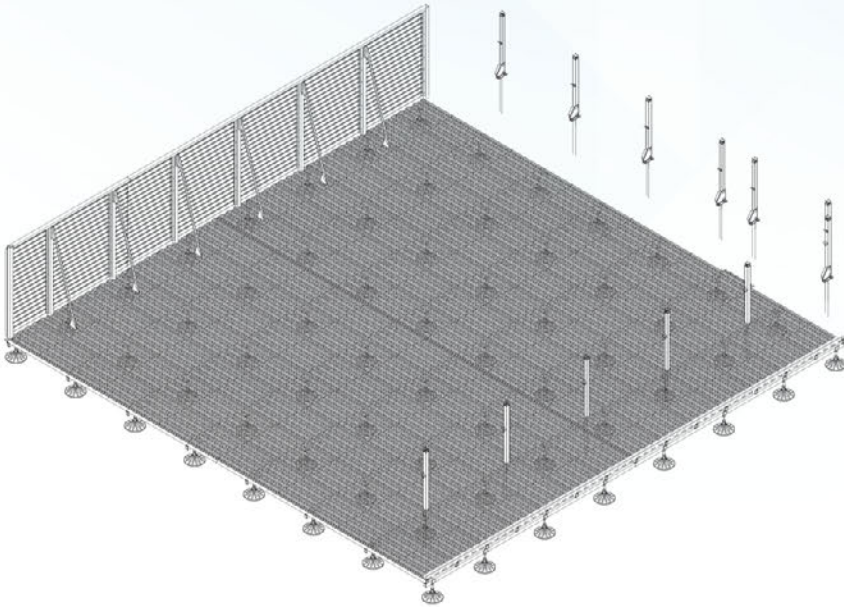
2



Assembly description

2. Mark the location of the Posts at 1200mm centres, leaving a gap for openings and Guardrail Gates.

3



Parts required



Guardrail
Post

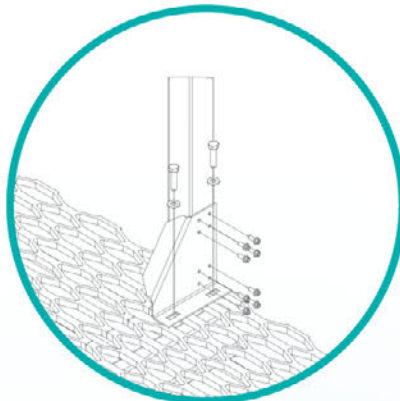
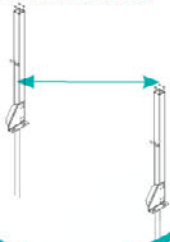


Post
Brace



20mm
Tek Screws

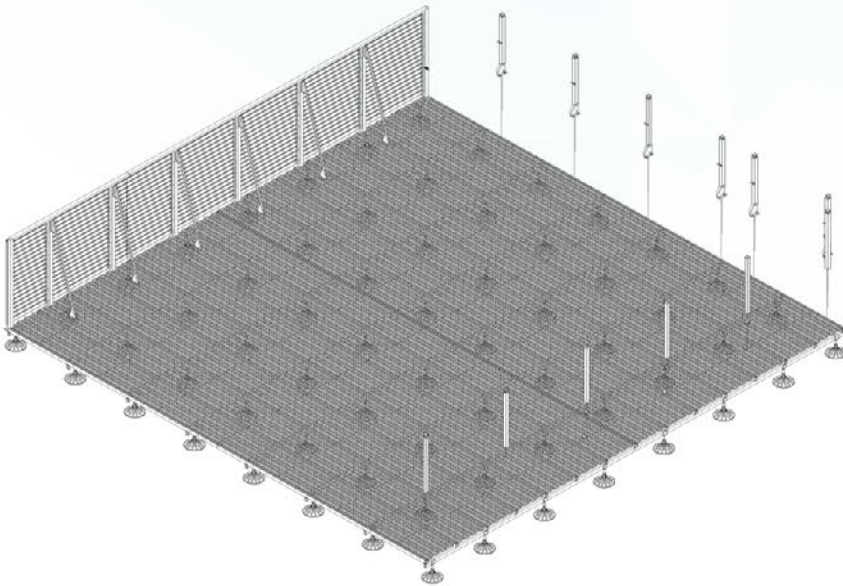
1200MM MAX
POST CENTRES



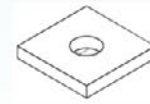
Assembly description

3. Fix a **Post Brace** to each of the **Guardrail Posts** using 8 x **20mm Tek Screws**. Place the first **Guardrail Post** 300mm from the corner of the platform. Position the Kneerail Bracket facing inwards. Place the remaining posts at 1200mm centres.

4



Parts required



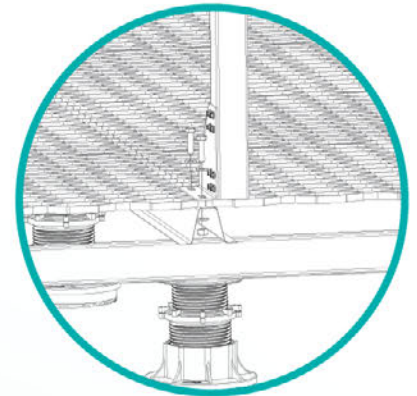
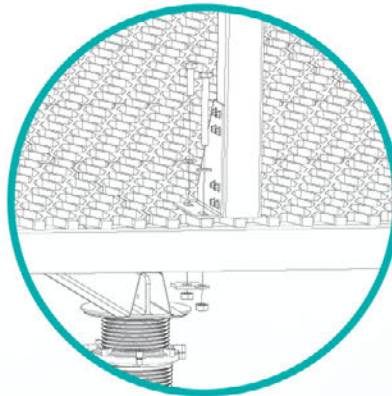
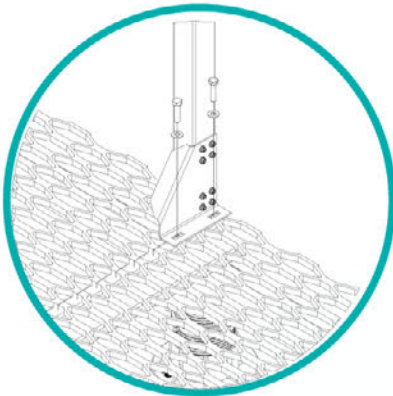
40mm **Washer**



40mm **Bolt Sets**



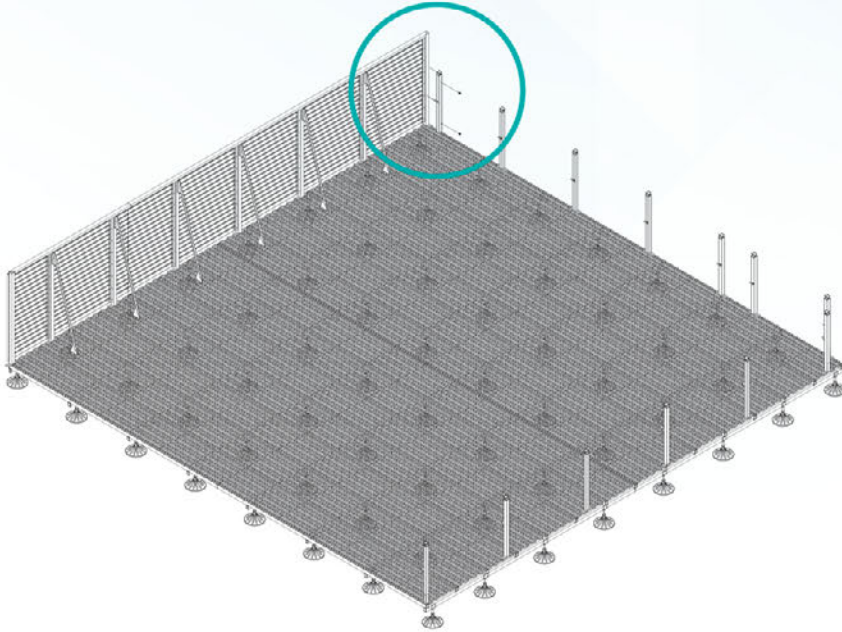
100mm **Bolt Sets**



Assembly description

4. Fix the **Guardrail Posts** to the platform. At the sides of the platform, use **40mm Bolts** through the cross supports and a **40mm Square Washer** through the Mesh. At the front and back of the platform, use **100mm Bolts** through the RHS and a **40mm Square Washer** through the Mesh. Ensure that the posts are plumb before tightening the bolts.

5



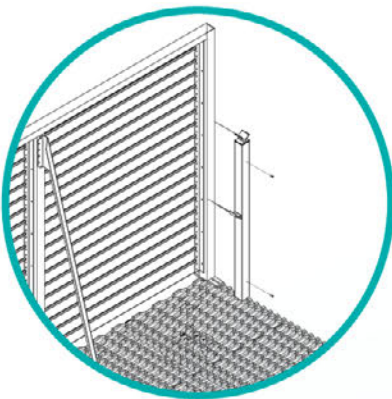
Parts required



Guardrail
Post



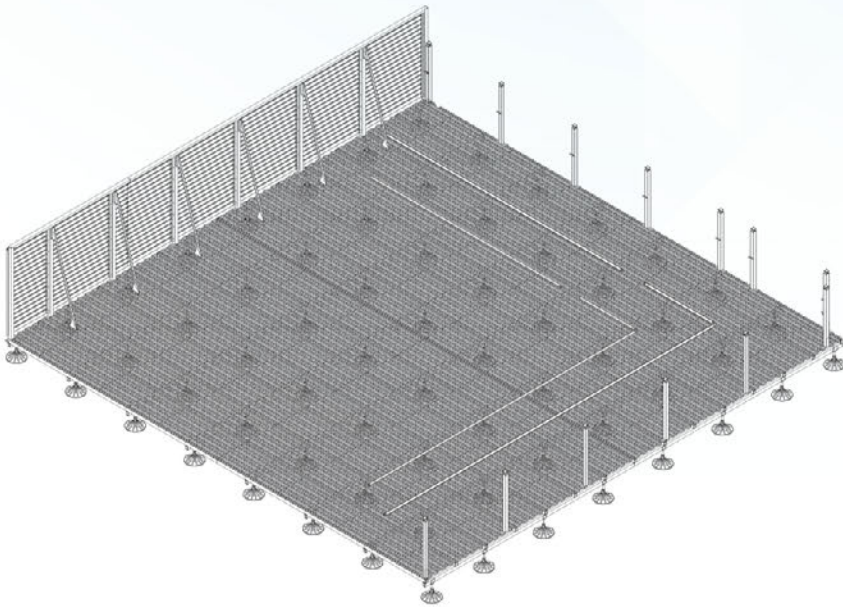
75mm **Tek Screws**



Assembly description

5. Where a guardrail ends against a screen, fix a **Guardrail Post** to the Screen Post using two **75mm Tek Screws**. The screws must be located 50mm down from the top and 50mm up from the bottom of the Guardrail Post. Drill a clearance hole through the post to ensure a secure connection.

6



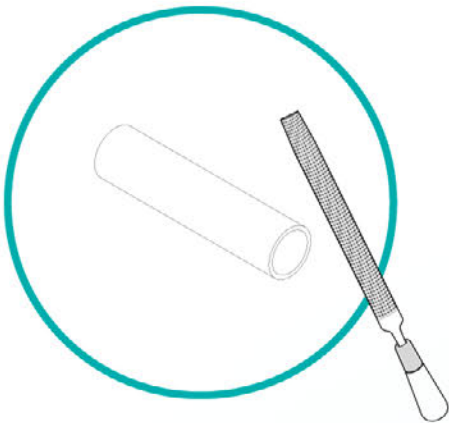
Parts required



Handrail
Pipe (50mm)



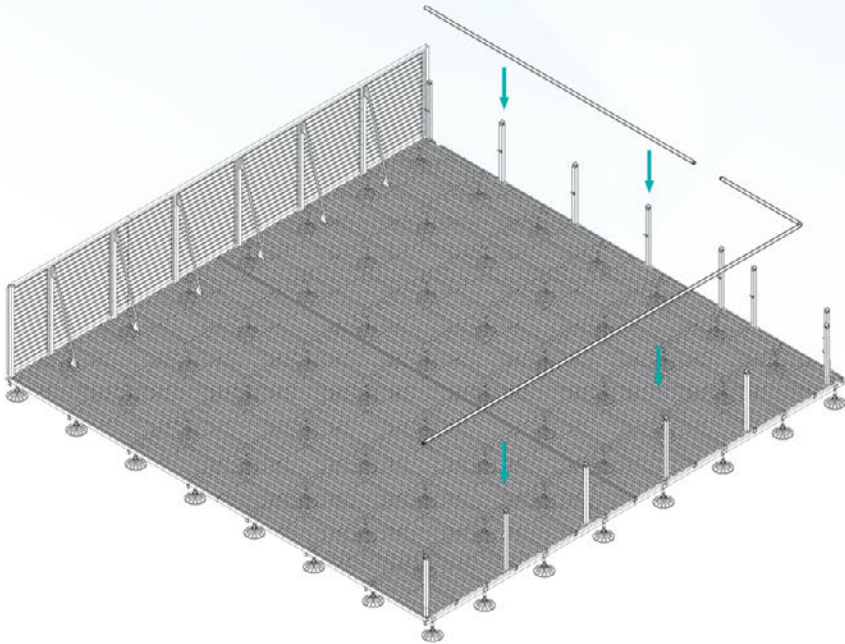
Kneerail
Pipe (38mm)



Assembly description

6. Establish from your structural drawing where each length of **Handrail Pipe and Kneerail Pipe** is used and lay these out in their correct positions on the platform mesh. Use a metal file to remove any sharp edges on the ends of each of the Handrail and Kneerail Pipes.

7



Parts required



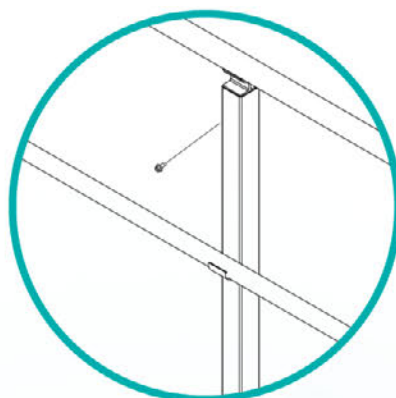
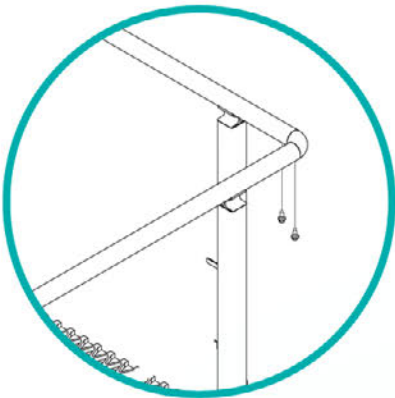
Handrail
Pipe (50mm)



Handrail
Bend



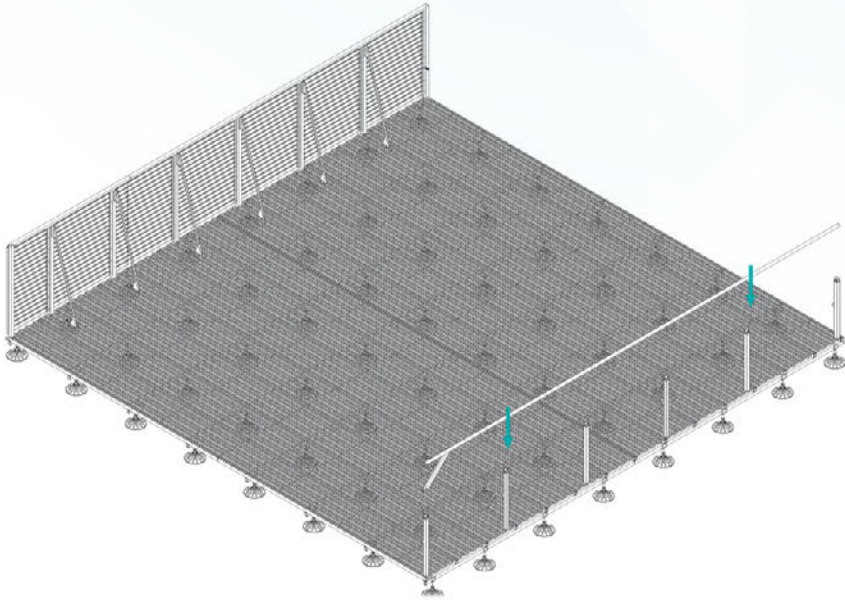
20mm **Tek Screws**



Assembly description

7. Begin at a corner continuing if you have one, and place the **Handrail Pipes** onto the saddles of the **Guardrail Posts** on either side. Join the two Handrail Pipes together using a **Handrail Bend** and fix the pipes to the bend using 20mm Tek Screws on the underside of the Handrail Bend. Plumb the Guardrail Posts and fix the handrail pipe to each Guardrail Post using 20mm Tek Screws, working from the corner outwards.

8



Parts required



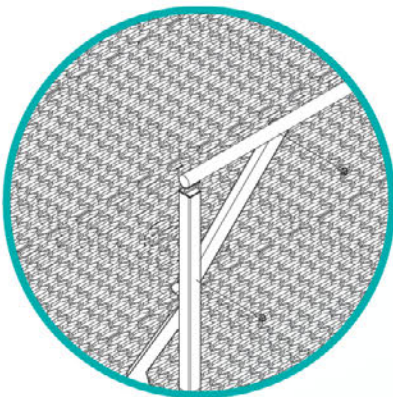
Handrail
Pipe (50mm)



Post Brace
Strut



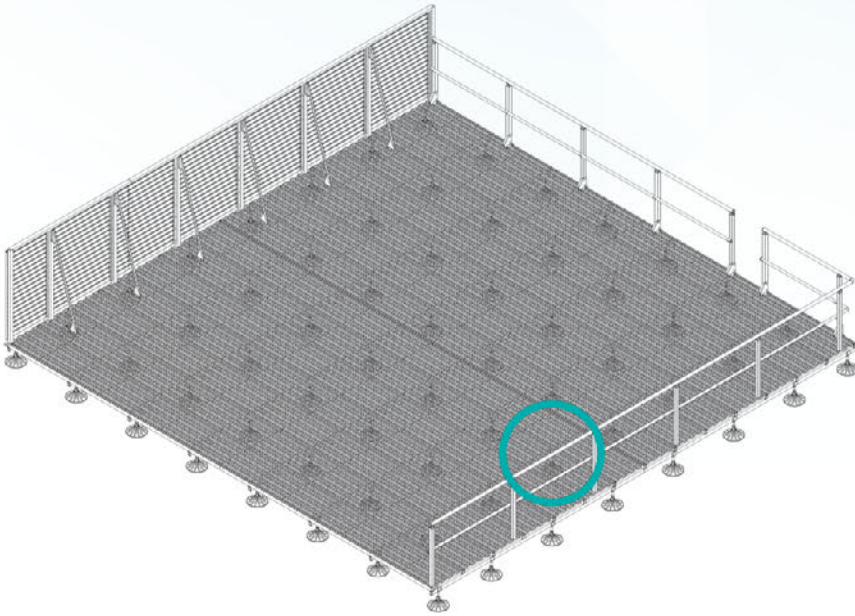
20mm
Tek Screws



Assembly description

8. If you do not have a corner continuing, start at a corner ending or an opening. Place the **Handrail Pipes** on to the saddles of the **Guardrail Posts** and keep the end of the Handrail Pipe flush with the outside edge of the Guardrail Post. Fix the Handrail Pipe to this post using 20mm Tek Screws. Plumb the post and fix a **Post Brace Strut** between the Guardrail Post and Handrail Pipe at a 45 degrees. Plumb the remaining Guardrail Posts and fix the Handrail Pipe to each Guardrail Post using 20mm Tek Screws.

9



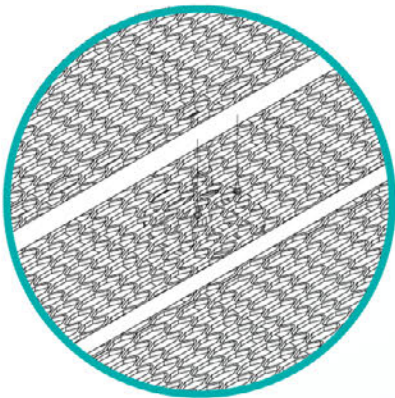
Parts required



Handrail
Splice



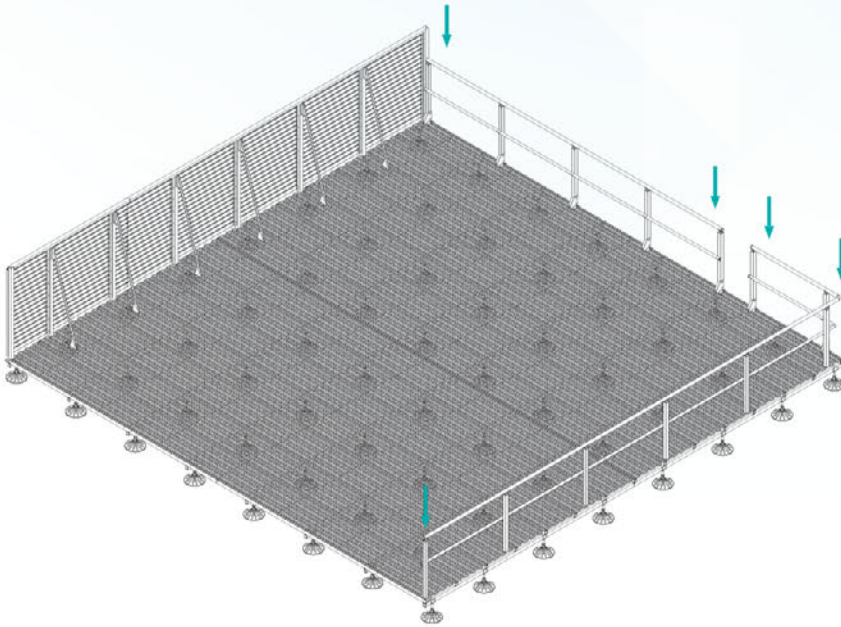
20mm **Tek Screws**



Assembly description

9. If any sides of the platform are longer than 6000mm, there will extra lengths of Handrail Pipe for these sides. Join the Handrail Pipe together using a **Handrail Splice**. Fix the Handrail Pipe to the Handrail Splice with 20mm Tek Screws on the underside of the Handrail Splice.

10



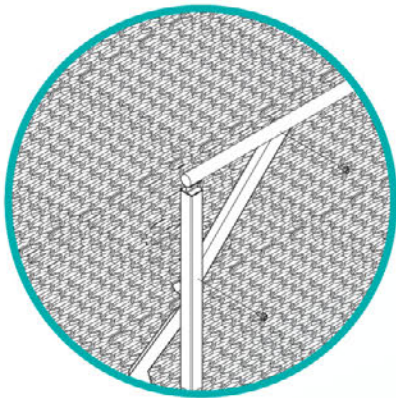
Parts required



Post Brace
Strut



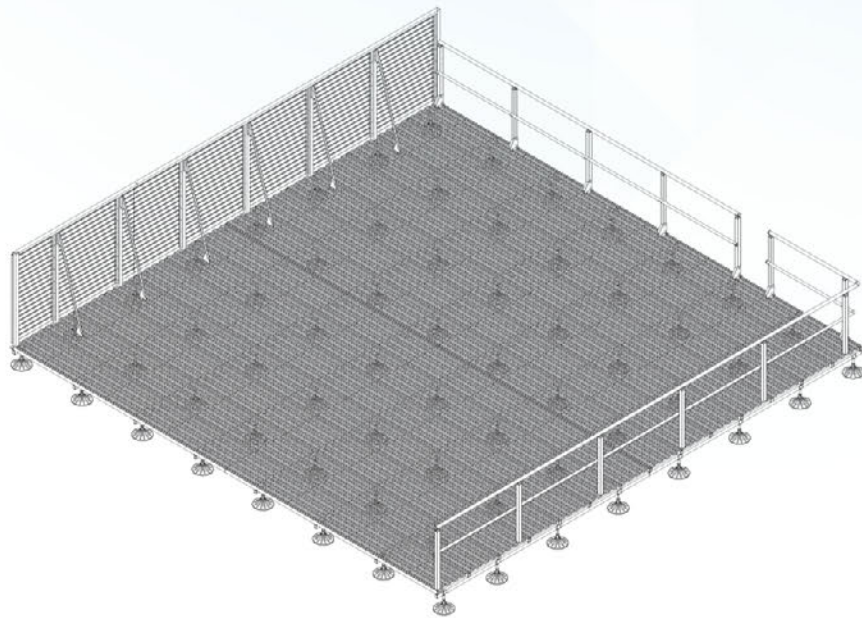
20mm
Tek Screws



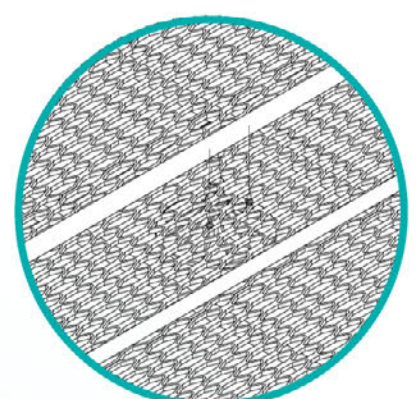
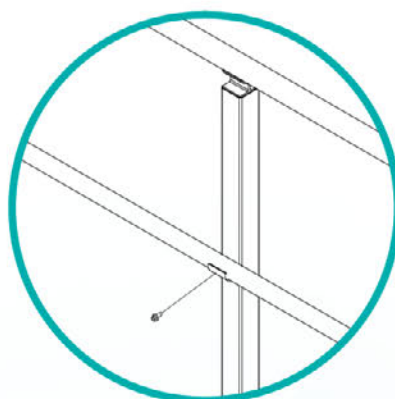
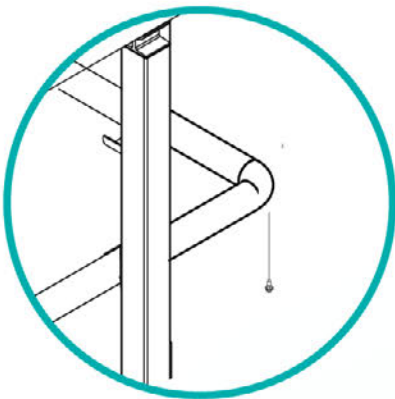
Assembly description

10. Fix a **Post Brace Strut** between the **Guardrail Post** and the **Handrail Pipe** at 45 degrees where the Guardrail ends, either side of the opening, and at each corner.

11



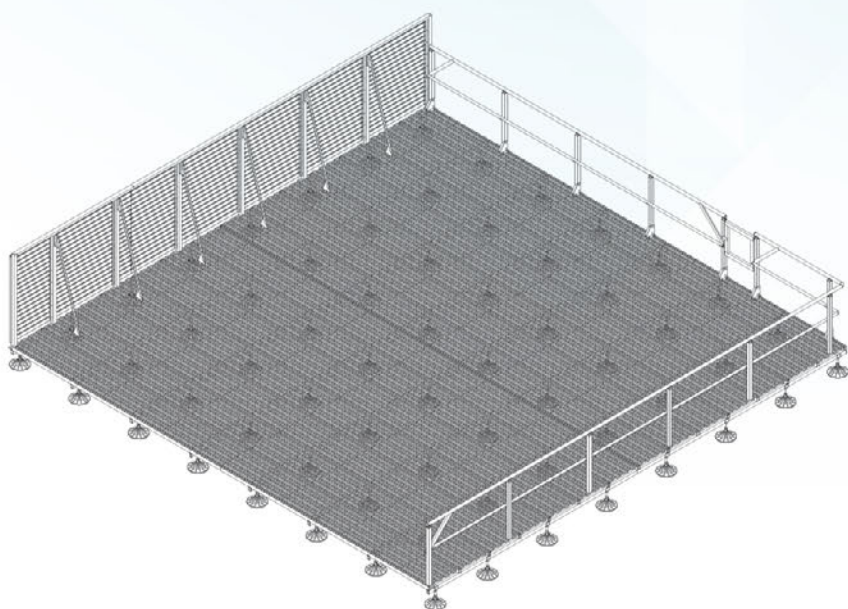
Parts required



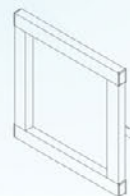
Assembly description

11. Once all Handrail Pipes are fixed in place and all Guardrail Posts are checked for plumb, fix the **Kneerail Pipes, Kneerail Bends and Kneerail Splices** in place using **20mm Tek Screws**.

12



Parts required



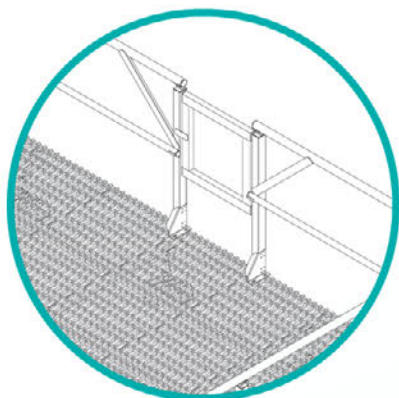
Gate



Gate
Hinge



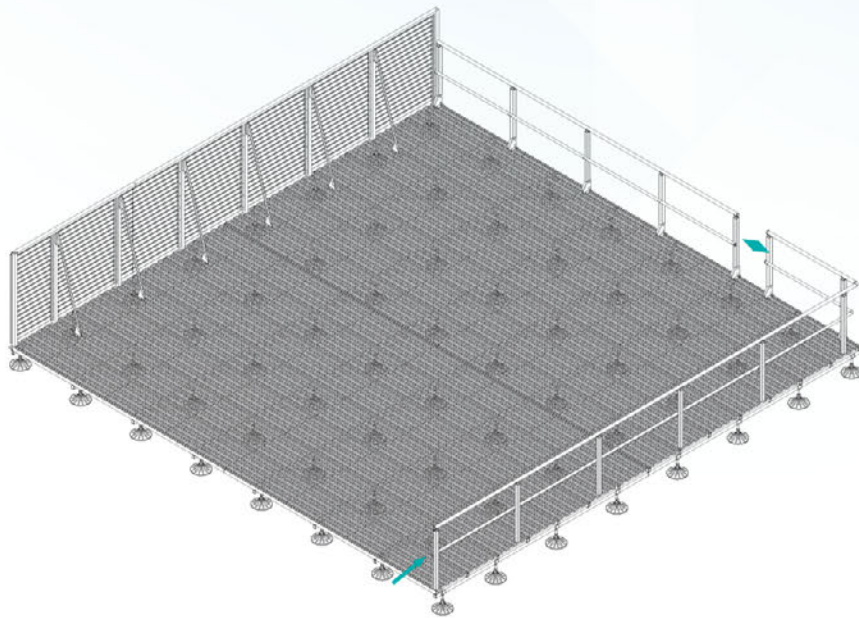
20mm
Tek Screws



Assembly description

12. If you have ordered a **Gate**, fix the Gate to one of the side posts of the opening using **Hinges** and **20mm Tek Screws**. Ensure that you fix the Hinges to the inside, so that the Gate opens inwards. Adjust the self-closing hinges to suit the weight of the Gate, so it closes gently but firmly.

13



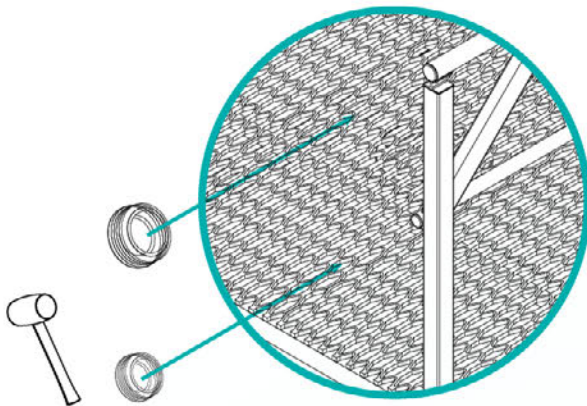
Parts required



Handrail
Cap



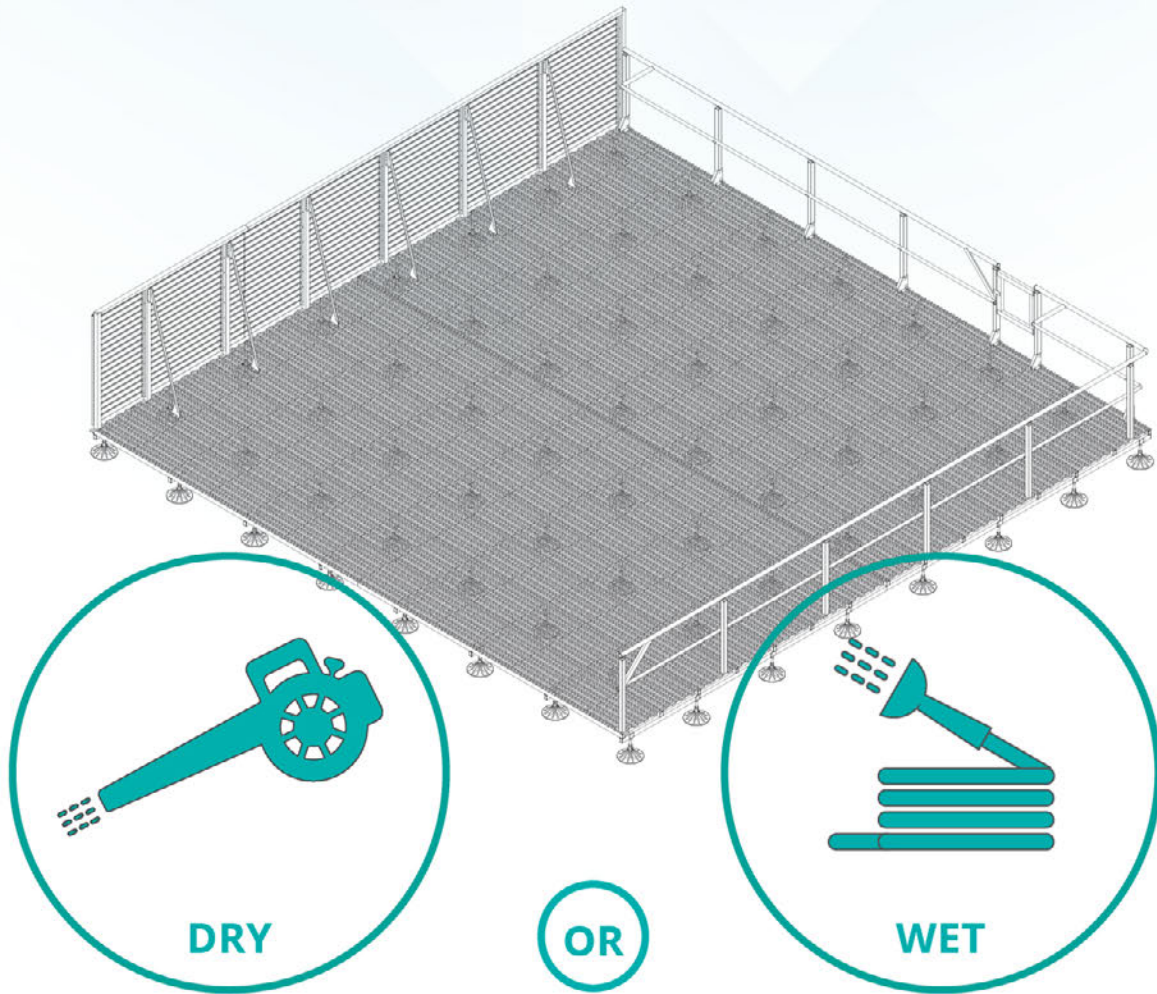
Kneerail
Cap



Assembly description

13. Cap the open ends of all Handrail Pipes using **Handrail Caps** and the Kneerail Pipes using **Kneerail Caps**.

14



Assembly description

14. If the roof is dry, use a petrol blower to clean it down. If it is wet use a hose.

