



Pavement Reinforcement System

Storage & Installation Guide

Road Preparation

Complete all crack sealing, pothole filling, base repairs, levelling course applications, etc.

Road Surface Condition

Surface must be:

- Dry
- Clean and dust-free

The road surface temperature **must** be between 5°C* and 60°C. On asphalt surfaces less than 24 hours old, the surface temperature **must** be between 5°C and 46°C. Local guidelines should be followed for paving temperature range. The use of a tack coat is recommended. If a tack coat is specified, it may be applied before or after the installation of GlasGrid[®], depending on site conditions. In both cases the tack coat must be completely cured prior to laying the GlasGrid[®] or paving.

NOTE: it is important to correctly select the most appropriate type of track coat.

Product Preparation

In order to preserve adhesive properties, GlasGrid[®] **must** be stored inside a dust-free environment and kept dry at the job site. GlasGrid[®] must not be transported or stored at temperatures greater than 82°C.

A manufacturer's representative **should** be present to support the initial installation of GlasGrid[®].

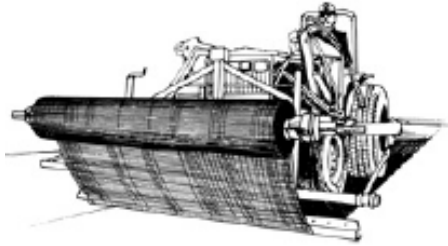
Two Easy-to-Place Methods

A. Using a Custom Laydown Machine

1. Load roll onto front of machine. Always load the red coloured end of the core on the right side of the installation vehicle to allow placement of the mesh with the self-adhesive side down.
2. Roll **only** with rubber-tired roller to activate adhesive. Roller tyres **must** be kept clean.
3. Apply tack coat per project requirements and pave once fully cured.

B. Manual Placement Procedure

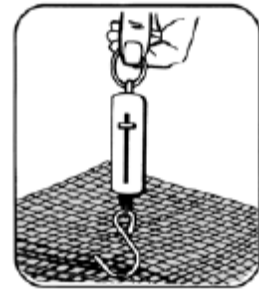
1. GlasGrid[®] mesh shall be laid out, adhesive side down, either by hand under sufficient tension to eliminate ripples. Should ripples occur, these must be removed by pulling the grid tight or in extreme cases (on tight radii), by cutting and laying flat. To ensure that the mesh will always unroll with the sticky side facedown, ensure that the red coloured end of the core is on the right side each time.
2. Secure the roll with locking device.
3. Secure start of the roll on pavement as the bearers slowly move away.
4. For shorter pieces, pull mesh off roller to desired length. Cut with utility knife and lay by hand.
5. Roll **only** with rubber-tired roller to activate adhesive. Roller tyres must be kept clean.
6. Apply tack coat per project requirements and pave once fully cured.



Laydown Machine

Test for Proper Adhesion

1. Cut 1m² of GlasGrid®.
2. Place on area to be paved.
3. Activate self-adhesive glue by rolling with a rubber tired roller.
4. Insert hook of spring balance under centre of GlasGrid® piece.
5. Pull upward until GlasGrid® starts to pull from the surface.
6. Record results in kg.
7. If 9kg's or more, it's OK to pave. Stop immediately if GlasGrid® moves or ripples. **If less than 9kg's, do not continue installation of GlasGrid® without corrective action to address the issue.**



Important issues

1. Because fibreglass is considered a skin irritant, workers should wear gloves while handling GlasGrid®.
2. GlasGrid® can be custom cut to fit around structures by using a sharp utility knife.
3. GlasGrid® must be applied without ripples. Sufficient tension during application will eliminate this problem.
4. Overlap at end of roll joints 75-110mm. Ensure that the overlaps are shingled in the direction of paving.
5. Overlap longitudinal joints 25-50mm.
6. Prior to paving, only construction and emergency vehicles shall be allowed to drive on installed GlasGrid®.
7. Damaged sections shall be removed and patched, taking care to underlap the full roll.
8. All GlasGrid® mesh placed in a day shall be covered with asphalt immediately, within permissible laying temperatures to a minimum compacted thickness of 40 mm.
9. Avoid pushing of the asphalt delivery vehicles with the paver, particularly on uphill gradients.
10. Prevent asphalt delivery vehicles from executing sharp turns, accelerating or braking on the GlasGrid®.

*All metric values are nominal.