

STARGrid™ INSTALLATION GUIDELINES

STARGrid, STARGrid G+PF and STARGrid G-PS paving grids

Surface Preparation

- Clean the roadway of dirt, water, oil and debris.
- Seal larger cracks as directed by the engineer.
- Fill cracks in excess of 1/8 to 1/4 inch (3 mm to 6 mm) with suitable crack filler, and potholes and large cracks with hot mix asphalt.
- Milled pavements or severely broken pavement should be pre-leveled with hot mix asphalt.

Tack Coat Application

Hot asphalt cements (neat or PG grade) are preferred. Application can be by tack truck – the most common and uniform distribution method – or by hand spraying equipment. When hand spraying, close attention must be paid to spraying a uniform tack coat. For G-PS products, the tack coat should be 0.1 to 0.15 gal/yd² (0.45 to 0.6 lit/m²) and for G+PF composites, the tack coat should be 0.2-0.3 gal/yd² (0.9-1.2 lit/m²), with 0.25 gal/d² (1.1 lit/m²) preferred, depending on the old asphalt's porosity, ambient temperature and type of tack coat used.

Paving Grid Installation

Keep paving grids dry at all times.

Manual placement of the paving grid is best suited for smaller projects. Hand-roll the grid onto the tack coat, broom into place, shape around monuments, slit wrinkles and overlap in the direction of paving.

Specialized paving fabric installation units speed production. A full roll can be installed in 3-5 minutes. Place the fabric side down when installing STARGrid G+PF.

Install the grid flat, with no wrinkles. At each roll change, place the leading edge under the preceding roll at least 6 inches (15 cm). Additional tack coat may be used between layers.

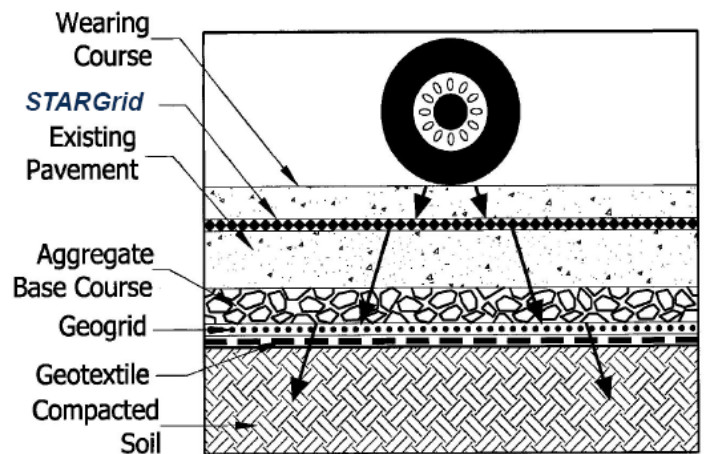
When hand rolling the paving grid, lift the roll, pull it taut, align it and lay it flat to avoid wrinkles or bulges.

During machine placement, drive the vehicle as straight as possible to avoid wrinkles and bulges.

On roads without curbs, the STARGrid must be placed 4 inches (10 cm) from the edge of the roadway.

The paving grid must be cut around utility monuments, drain grates, and manhole covers. Allow a clearance of 4 inches (10 cm) from the edges of the cutout.

When installing STARGrid , a positive overlap of 2-3 inches (5-7 cm) is required for longitudinal joints and 6 inches (15 cm) for transverse joints.



Asphalt Construction

Standard paving procedures should follow the paving grid placement. The thickness of the asphalt should not be less than 1.5 inches (4 cm) after compaction.

Compacting immediately after placement helps to concentrate the heat and supply pressure to start the process of tack coat moving up into and through the grid structure. When the overlay thickness is tapered toward the edges or gutters, it must be a minimum of 1.5 inches (4 cm) after compaction at the thinnest spot.

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