

General Description

ADFORS GlasGrid GG Full Lane Width Pavement Reinforcement System is manufactured at a Saint-Gobain ADFORS facility that has achieved ISO 9001:2015 certification and meets the requirements of EN 15381. ADFORS GlasGrid is a high strength, open fiberglass grid custom knitted in a stable construction and coated with a patented elastomeric polymer and self-adhesive glue. Every component of the matrix shall be stabilized against ultraviolet degradation and inert to chemicals normally found in a natural soil environment. ADFORS GlasGrid conforms to the property values listed below, which have been derived from quality conformance testing performed by an accredited laboratory:

Technical Characteristics

| Property | GG 50 | GG 100 | GG 200 | Test Method |
|--|---|--|----------------------------|------------------------------------|
| Tensile Strength (MD x XD) Ultimate | (55 x 55) - 5 kN/m | (115 x 115) - 15 kN/m | (115 x 215) - 15 kN/m | EN ISO 10319 ASTM D6637 |
| Tensile Elongation Ultimate | 2,5 ± 0,5 % | 2,5 ± 0,5 % | 2,5 ± 0,5 % | EN ISO 10319 ASTM D6637 |
| Tensile Resistance @ 2% Strain (MD x XD) | (46 x 46) ± 10 kN/m | (95 x 95) ± 20 kN/m | (95 x 180) ± 20 kN/m | EN ISO 10319 ASTM D6637 |
| Secant Stiffness EA @ 1% Strain (MD x XD) | (2.200 x 2.200) ± 200 N/mm | (4.600 x 4.600) ± 600 N/mm | (4.600 x 8.600) ± 600 N/mm | EN ISO 10319 ASTM D6637 |
| Young's Modulus E | 73.000 MPa | 73.000 MPa | 73.000 MPa | |
| Mass per Unit Area | 205 g/m ² | 405 g/m ² | 603 g/m ² | EN ISO 9864 ASTM D5261 |
| Melting Point Coating Melting Point Glass | >232 °C >820 °C | >232 °C >820 °C | >232 °C >820 °C | ASTM D276/EN ISO 3146 ASTM C338 |
| Roll Length | 150 m | 100 m | 70 m | |
| Roll Width | 1,0; 1,5; 2,0; 3,0 m | 1,0; 1,5; 2,0; 3,0 m | 1,5; 3,0 m | |
| Roll Area | 150, 225, 300, 450 m ² | 100, 150, 200, 300 m ² | 105, 210 m ² | |
| Adhesive Backing | Pressure sensitive | Pressure sensitive | Pressure sensitive | |
| Grid Size (Center to Center of Strand) | 25 x 25 mm | 12,5 x 12,5 mm (type 8501) 25 x 25 mm (type 8511) | 25 x 19 mm | |
| Material | Fiberglass reinforcement with modified polymer coating and pressure-sensitive adhesive backing. | | | |

Properties

- High grid stiffness provides a wrinkle-free installation and a direct load transmission.
- Low elongation
- Thermal and chemical stability
- Excellent milling performance



The values and tolerances given are obtained in our laboratories and in accredited testing institutions. The information given in this data sheet is to the best of our knowledge true and correct. However new research and practical experience can make revisions necessary. We reserve the right to make changes at any time. Statements concerning possible use of our product are not intended as recommendations for their use in the infringement of any patent. No patent warranty of any kind, expressed or implied, is made or intended.

Installation

- Complete all crack sealing, pothole filling, base repairs, leveling course application. Road surface must be dry, clean and dust-free with temperature 5 °C - 60 °C.
- Unroll the geogrid with the sticky side face down on the flat layer/leveling course.
- Respect the overlap of end roll joints 10 - 15 cm and longitudinal joints at minimum 5 cm.
- Press the grid to the layer to activate glue and ensure bonding between the lower surface and grid.
- Apply tack coat per project requirements. (See application tack coat rate formula in Installation manual page 4).
- Permit the tack to completely cure prior to proceeding.
- Apply asphalt over layer.

See document Installation Procedures for detailed steps available on our website or watch the video on YOUTUBE ADFORS TV channel.



Benefits

- Quick and efficient installation due to self-adhesive backing
- High grid stiffness providing a wrinkle free installation
- Easy cutting
- Good trafficability (suppliers, trucks, paver)
- Thermal and chemical stability
- Excellent milling performance
- Measured unlimited recyclability & enhanced properties in Reclaimed Asphalt Pavement (RAP)



Palletization

| Product | Roll width | Roll area | Roll weight | Core inner diameter | No of rolls on pallet | Total area |
|---------|------------|--------------------|-------------|---------------------|-----------------------|----------------------|
| GG50 | 1 m | 150 m ² | 36 kg | 76 mm | 12 | 1 800 m ² |
| | 1,5 m | 225 m ² | 51 kg | 76 mm | 12 | 2 700 m ² |
| | 2 m | 300 m ² | 68 kg | 76 mm | 6 | 1 800 m ² |
| | 2 m | 300 m ² | 68 kg | 76 mm | 10 | 3 000 m ² |
| | 3 m | 450 m ² | 104 kg | 100 mm | 6 | 2 700 m ² |
| GG100 | 3 m | 450 m ² | 104 kg | 100 mm | 10 | 4 500 m ² |
| | 1 m | 100 m ² | 47 kg | 76 mm | 12 | 1 200 m ² |
| | 1,5 m | 150 m ² | 66 kg | 76 mm | 12 | 1 800 m ² |
| | 2 m | 200m ² | 89 kg | 76 mm | 6 | 1 200 m ² |
| | 2 m | 200 m ² | 89 kg | 76 mm | 10 | 2 000 m ² |
| GG200 | 3 m | 300 m ² | 134 kg | 100 mm | 6 | 1 800 m ² |
| | 3 m | 300 m ² | 134 kg | 100 mm | 10 | 3 000 m ² |
| | 1,5 m | 105 m ² | 69 kg | 76 mm | 12 | 1 260 m ² |
| | 3 m | 210 m ² | 140 kg | 100 mm | 6 | 1 260 m ² |
| | 3 m | 210 m ² | 140 kg | 100 mm | 10 | 2 100 m ² |




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CE Plant Litomyšl (CZ):
 1021-CPR-040/15-1
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