

PRODUCT DATA SHEET

Sika® Drain-400 GR Star

High density polyethylene (HDPE) studded drainage sheet

DESCRIPTION

Sika® Drain-400 GR Star is a drainage membrane sheet based on high density polyethylene (HDPE), suitably configured to facilitate drainage of groundwater.

USES

- Protection layer of waterproofing systems
- Facilitation of water drainage in underground structures, such as gardens, retaining walls, bridge pedestals, e.t.c.
- Protection of waterproofing systems in tunnels, green roofs, flower stand, e.t.c.

FEATURES

- High chemical & mechanical resistance
- Resistant to root penetrations
- Specially economical solution
- Ease installation
- Enhancement of the functional safety of the waterproofing system
- Protection of the waterproofing layer from possible mechanical stress and injuries during backfilling process

CERTIFICATES AND TEST REPORTS

CE marking and Declaration of Performance according to EN 13967 - Plastic and rubber sheets intended for use as damp proofing in buildings

PRODUCT INFORMATION

Composition	High density polyethylene (HDPE)	
Packaging	Rolls	
Shelf life	5 years from date of production	
Storage conditions	Product must be stored in dry conditions and temperatures between +5 °C and +30 °C. Store in a horizontal position. Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage. Always refer to packaging.	
Appearance and colour	Surface: flat with star shaped cones protruding Membrane thickness: 7 mm (± 0,5 mm) No of dimples: 1860/m ² Colour: black	
Length	Length (m) 30,00	Tolerance ± 0,1
Width	Width (m) 2,00	Tolerance ± 0,01
Thickness	7,00 mm	

SYSTEM INFORMATION

System structure

Ancillary products:

- Sika® Drain Profile – special termination profile based on high density polyethylene (HDPE), dimensions 2.00 m (length) x 7 cm (width)
- Sika® Drain Plugs & Nails for fixing
- Sika® MultiSeal – self-adhesive waterproofing tape for fixing and securing the overlaps between the sheets.

TECHNICAL INFORMATION

Compression resistance

300 kN/m²

Tensile strength

Longitudinal (MD)

> 200 N/5 cm

Transversal (CMD)

> 150 N/5 cm

Elongation at maximum tensile force

20 %

Reaction to fire

Class F

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

After the installation and the fixation of the membrane sheet, secure the top termination of Sika® Drain-400 GR Star using the Sika® Drain Profile. As an alternative, in order to intervene soil coming into the formed empty space between the membrane and the waterproofed structural element, seal this space using a sealant (e.g. Sikaflex® PRO-3 Purform®).

ECOLOGY, HEALTH AND SAFETY

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0,1 % (w/w).

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Clean and dry, homogeneous, free from oils and grease, dust, loose or friable particles and rough edges.

Prior to the installation of Sika® Drain-400 GR Star, the selected waterproofing system must have been applied.

If the waterproofing product is a coating allow to cure completely before the installation of Sika® Drain-400 GR Star. Make sure the drainage water can escape to ground or in cases of high water flow through classic drainage pipes and coarse aggregates without compaction.

APPLICATION METHOD / TOOLS

Sika® Drain-400 GR Star sheets are installed with the protrusions facing the structural element that is going to be protected.

Fix the membrane sheets, at the top of the structural element, using steel nails with a distance of 25 cm between them.

In order to avoid any soil to intervene between the membrane sheets, perform the overlapping of the sheets with special attention. Minimum recommended overlap width: 20 cm.

Use Sika® MultiSeal (self-adhesive waterproofing tape) for jointing the membrane sheets together and for the termination of the sheets at the top of the structural element.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a

particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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