

# PRODUCT DATA SHEET

## Sika® Drain-S

### SYNTHETIC DRAINAGE SHEETS

#### DESCRIPTION

Sika® Drain-S is a drainage membrane sheet made of high density polyethylene (HDPE), suitably configured to facilitate drainage of groundwater.

#### USES

Sika® Drain-S is used as a protection layer of waterproofing systems and for facilitating the drainage of water in under ground structures as gardens, retaining walls, bridge pedestals, e.t.c. Also it can be used as protection of waterproofing systems in tunnels, green roofs, flower stand, e.t.c.

#### CHARACTERISTICS / ADVANTAGES

- High chemical resistance
- Resistant to root penetrations
- Specially economical solution
- Ease installation
- High mechanical resistance

Sika® Drain-S forms an empty space between the structural element and the backfilling material, enabling air flow, water and water-vapour and enhancing the functional safety of the waterproofing. Due to its exceptional mechanical properties, protects the waterproofing layer from possible mechanical stress and injuries during backfilling process.

#### PRODUCT INFORMATION

<b>Chemical base</b>	High density polyethylene (HDPE)
<b>Packaging</b>	Roll size: 2.00 m (roll width) x 30.00 m (roll length)
<b>Appearance / Colour</b>	Rolls Surface: flat with cone shape protrusions Membrane thickness: 0.4 mm Product thickness: 7.5 mm Colour: Brown
<b>Shelf life</b>	Under correct storage conditions, the product does not expire.
<b>Storage conditions</b>	Rolls must be stored in dry conditions, in vertical or horizontal position, protected from rain, snow, ice, e.t.c.
<b>Dimensions</b>	Dimple height: 7.5 mm Air gap between dimples: 5.8 lt/ m <sup>2</sup>
<b>Thickness</b>	0.4 mm
<b>Unit weight</b>	~ 400 gr/ m <sup>2</sup>

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## TECHNICAL INFORMATION

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<b>Compression Resistance</b>	>120 KN/m <sup>2</sup>	(EN ISO 826 adp)
<b>Tensile Strength</b>	>200 N/5cm (longitudinal) >200 N/5cm (transversal)	(EN ISO 10319)
<b>Elongation</b>	>20 N % (longitudinal) >20 N % (transversal)	(EN ISO 10319)

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## SYSTEMS

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<b>System Structure</b>	Ancillary products: <ul style="list-style-type: none"><li>▪ Sika® Drain Profile – special termination profile based on high density polyethylene (HDPE), dimensions 2.00 m (length) x 7 cm (width)</li><li>▪ Sika® Drain Plugs &amp; Nails for fixing</li><li>▪ Sika® Multiseal – self-adhesive waterproofing tape for fixing and securing the overlaps between the sheets.</li></ul>
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## 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-S, the selected waterproofing system must have been applied. If the waterproofing product is a coating allow it to cure completely before the installation of Sika® Drain-S. 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-S 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.

### LIMITATIONS

After the installation and the fixation of the membrane sheet, secure the top termination of Sika® Drain-S 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 sealant (e.g. Sikaflex® Pro-3).

## 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.

## 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.

## 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 this 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).

## 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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