

TECHNICAL DATA SHEET

DESCRIPTION

NURAMAT GREEN DRAIN 20SRXSSg is a geo-composite drainage and water attenuation layer comprising a perforated cusped HDPE (High Density Polyethylene) core with selected geotextiles thermally bonded on each side. It is primarily intended for use under thin soil layers where the plant roots can reach down to the water in the core reservoirs.

The core is perforated to allow excess rainwater to flow into the underside and away through the NURAMAT GREEN DRAIN to the outlets. The upper textile is optimised for drainage performance and the lower textile protects the waterproofing system. Its major application is in extensive roof garden drainage where NURAMAT GREEN DRAIN provides a lightweight drainage layer and water reservoir to sustain plant growth. NURAMAT GREEN DRAIN makes extensive use of recycled polymers in its construction.

GEOCOMPOSITE PROPERTIES

Thickness at 2kPa (mm) 22.2 nominal EN ISO 9863-1
Tensile strength MD / CMD (kN/m) 19 / 19 -13% EN ISO 10319
Elongation at peak MD / CMD (%) 40 / 50 nominal EN ISO 10319
Mass per unit area (dry) (g/m²) 1 540 EN ISO 9864
Mass/unit area (saturated) (g/m²) 7 040 (indicative)
Water reservoir volume (l/m²) 5.5
Water flow normal to the plane (l/m²-s) 2.5 -15% EN ISO 11058

In-plane water flow MD and CMD 10% 3% 1% Hydraulic gradient at 20kPa confining pressure (l/m²-s) 3.95 1.88 0.85 EN ISO 12958 with **hard** contact surfaces to simulate installation on rigid surfaces. The confining pressures of the flow rates shown above are all equal to or less than the long-term compressive strength of the product.

Resistance to weathering To be covered in 28 days EN 12224
Resistance to microbes Excellent EN 12225
Design life 120 years (manufacturer's declaration)

GEOTEXTILE PROPERTIES

Mass per unit area (g/m²) 120 -13% EN ISO 10319
Breakthrough head (mm) 0 nominal
Pore size 090 (µm) 120 ±30% EN ISO 12956
CBR puncture resistance (N) 1 600 -20% EN ISO 12236
Dynamic perforation cone drop (mm) 32 +20% EN ISO 13433
Type and material Non-woven needle-punched and heat-treated long staple fibre polypropylene.

PRODUCT DIMENSIONS

Standard roll dimensions 0.92 x 50 m. The product is normally rolled with the lower textile inward and will require to be turned over during installation.

NOTES

1. The values given are indicative and correspond to nominal results obtained in our laboratories and testing institutes. In line with our policy of

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continuous improvement the right is reserved to make changes without notice at any time.

2. Final determination of the suitability of any information is the sole responsibility of the user. ABG will be pleased to discuss the use of this or any other product but responsibility for selection of a material and its application in any specific project remains with the user.

3. The tolerance on roll length is $\pm 1.5\%$ and on roll width is $\pm 1.0\%$.

4. Guidance on interface shear strength, creep and certain other parameters is available. Site specific tests are strongly recommended.

5. Non-load bearing walls can be built off NURAMAT GREEN DRAIN.

6. The hydraulic performance of the lower face textile does not influence overall product performance.

SAFETY, STORAGE & HANDLING INFORMATION

Do not stack pallets.

Store indoors.

TRANSPORT CLASSIFICATION

N/A

The information in this product data sheet is based on our experience and testing. It represents the latest information available at the time of printing, but no guarantee of its accuracy is made or implied, nor responsibility taken for use to which this information may be put. We reserve the right to alter or up-date information parameters and formulations at any time without notice.