

## NURAMAT GREEN DRAIN TECHNICAL DATA SHEET

### DESCRIPTION AND AREAS OF USE

**NURAMAT GREEN DRAIN 20SRXSSc3g** 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.

### GEO-COMPOSITE PROPERTIES

Thickness at 2kPa	(mm)	24.3	Nominal	EN ISO 9863-1
Tensile strength MD/CMD	(kN/m)	25/28	-10%	EN ISO 10319
Elongation at peak MD/CMD	(%)	45/45	Nominal	EN ISO 10319
Mass per unit area (dry)	(g/m <sup>2</sup> )	1 720		EN ISO 9864
Mass/unit area (saturated)	(g/m <sup>2</sup> )	7 220	(indicative)	
Water reservoir volume	(l/m <sup>2</sup> )	5.5		
Water flow normal to the plane	(l/m <sup>2</sup> · s)	2.5	-15%	EN ISO 11058

In-plane water flow MD and CMD at 20kPa confining pressure (l/m<sup>2</sup> · s)      10%    3%    1%    Hydraulic gradient  
 3.95    1.88    0.85    EN ISO 12958  
 with hard contact surfaces to stimulate installation on rigid surfaces

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      Upper face    Lower face (note 5)

Mass per unit area	(g/m <sup>2</sup> )	120	300	-13%	EN ISO 10319
Breakthrough head	(mm)	0	Not determined	nominal	
Poor size $O_{90}$	( $\mu$ m)	120	Not determined	$\pm$ 30%	EN ISO 12956
CBR puncture resistance	(N)	1 600	1 500	-20%	EN ISO

					12236
Dynamic perforation cone drop	(mm)	32	Not determined	+20%	EN ISO 13433

## TYPE AND MATERIAL

Upper face: Non-woven needle-punched and heat-treated long stable fibre polypropylene

Lower face: Non-woven felt of polypropylene and other recycled polymers

## PRODUCT DIMENSIONS

920mm x 50m. 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 the manufacturers laboratories and testing institutes.
2. The tolerance on roll length is  $\pm 1.5\%$  and on roll width is  $\pm 1.0\%$ .
3. Guidance on interface shear strength, creep and certain other parameters is available. Site specific tests are strongly recommended.
4. Non-load bearing walls can be built off **NURAMAT GREEN DRAIN**.
5. 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.*