

TECHNICAL DATASHEET

ROOFDRAIN 60S+RX

PRODUCT DESCRIPTION

ROOFDRAIN 60S+RX consists of a perforated, single cuspated HDPE (High Density Polyethylene) core with water retention reservoirs. After installation on site ROOFDRAIN is filled with light weight drainage aggregate and overlaid with a Non-woven geotextile. It is primarily intended for use under thin soil layers where the plant roots can reach down to the water in the core reservoirs. Excess rainwater escapes through the perforations in the sheets of ROOFDRAIN and away to the outlets. It's major application is in extensive roof, garden drainage and water reservoir to sustain plant growth and contribute to SUDS attenuation of rainfall run-off.

ROOFDRAIN 60S+RX makes extensive use of recycled polymers in its construction.



CORE PROPERTIES	TEST METHOD	UNITS	TOLERANCE	ROOFDRAIN
THICKNESS AT 2kPa	EN ISO 9863-1	mm	NOMINAL	60
TENSILE STRENGTH MD/CD	EN ISO 10319	kN/m	-10%	20
ELONGATION AT PEAK MD/CMD	EN ISO 10319	%	NOMINAL	75
MASS PER UNIT AREA (DRY)	EN ISO 9864	g/m ²		2 200
MASS/UNIT AREA (SATURATED)		g/m ²	(INDICATIVE)	26 000
WATER RESERVOIR VOLUME		l/m ²		23
WATER RESERVOIR VOLUME		l/m ²	WHEN FILLED WITH LIGHTWEIGHT DRAINAGE AGGREGATE	11
WATER FLOW NORMAL TO THE PLANE	EN ISO 11058	l/m ² .s	-15%	0.55
IN-PLANE WATER FLOW MD & CD	HYDRAULIC GRADIENT		10%	3%
AT 20kPa CONFINING PRESSURE	EN ISO 12958	l/m ² .s	12.5	5.5
WITH HARD CONTACT SURFACES TO SIMULATE INSTALLATION ON RIGID SURFACES				
RESISTANCE TO WEATHERING	EN 12224		TO BE COVERED IN 14 DAYS	
RESISTANCE TO MICROBES	EN 12225		EXCELLENT	
DESIGN LIFE			120 YEARS (MANUFACTURER'S DECLARATION)	

GEOTEXTILE PROPERTIES	TEST METHOD	UNITS	TOLERANCE	TERREX NW8
MASS PER UNIT AREA	EN ISO 10319	g/m ²	-13%	100
BREAKTHROUGH HEAD	BS 6906 PT 3	mm		0
PORE SIZE 0 ₉₀	EN ISO 12956	µm	±30%	130
CBR PUNCTURE RESISTANCE	EN ISO 12236	N	-20%	1 400
DYNAMIC PERFORATION CONE DROP	EN ISO 13433	mm	+20%	34
TYPE AND MATERIAL	NON-WOVEN NEEDLE-PUNCHED AND HEAT-TREATED LONG STAPLE FIBRE POLYPROPYLENE			

PRODUCT DIMENSIONS

STANDARD ROLL DIMENSIONS	0.92 X 15.2 m . THE PRODUCT IS ROLLED WITH THE DIMPLES INWARD AND WILL REQUIRE TO BE TURNED OVER DURING INSTALLATION. GEOTEXTILE IS SUPPLIED SEPERATELY IN ROLLS 4.5m x 100m
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1. TCS Geotechnics is a trading name of Technical Civils Solutions Ltd.
2. TCS Geotechnics Ltd reserves the right to alter product specifications without prior notice.
3. It is the responsibility of all users to satisfy themselves that the above data is current.
4. The above figures are average values obtained from testing to current EN ISO standards.
5. TCS Ltd cannot accept responsibility for the performance of these products as the conditions of use are beyond our control.
6. Installation details are available on request.
7. The tolerance on roll length is 1.5% and on roll width 1.0%.
8. Non-load bearing walls can be built off Roofdrain.

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