



Wallbarn - Technical Datasheet

Wallbarn 20G Drainage board is a geo-composite drainage layer ideal for structural drainage applications on walls, roofs and podiums and under concrete slabs or structures requiring vehicular access or high volumes of pedestrian access, including motorised wheelchairs and mobility scooters. Specially designed to be compatible with structural waterproofing, PD-G20 provides optimum performance over the whole life of the structure. The HDPE core forms a high-performance drainage layer with clear void to allow flow in all directions. The compressive strength and resistance properties of the Geotextile ensures that the core maintains its drainage capacity, even when subjected to compressive loads.

Technical Data	Result	Test Standards
Material	HDPE and Geotextile fabric	N/A
Total Unit Weight	1 Kg/m ²	N/A
Total Sheet Thickness	1mm	EN 149-2
Stud Height	20mm	N/A
<u>Colour</u>	Black	N/A
Water tightness,60 kPa; 24h	Pass	EN 1928
Working Temperature	-50°C to +80°C	N/A
Softening Temperature	126°C	N/A
Tensile Strength MD	416 N	BS 12311-2
Tensile Strength CD	488 N	BS 12311-2
Resistance to Static Loading	>20 Kg	BS 12730
Compressive Strength	180kN/m ²	BS EN ISO 25619-2
Reaction to Fire	Class F	BS EN 13501-1:2007+A1:2009
Type of Application	Type V	N/A
Life Expectancy	Lifetime of Structure	N/A

Hydraulic properties	Test standard	Means values
In plane water flow test (soft/soft) 20 kPa L/m/s	BS EN ISO 12958	<u>7.40</u> 7.25

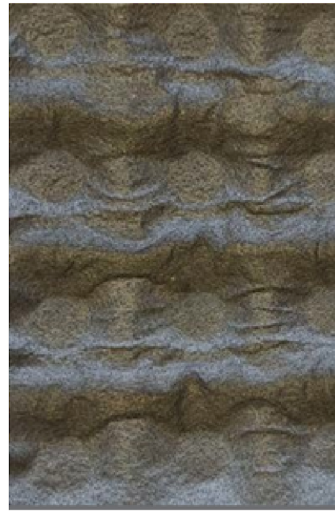
Geotextile Mechanical Properties	Results	Test Standards
CBR Puncture Resistance	1.27 <u>kN</u>	EN ISO 12236
Tensile Strength (M)	8 <u>kN/m</u>	EN ISO 10319
Tensile Strength (CMD)	8.5 <u>kN/m</u>	EN ISO 10319
Tensile Elongation (MD)	50%	EN ISO 10319
Tensile Elongation (CMD)	60%	EN ISO 10319
Dynamic Perforation	35 mm	EN ISO 13433

Geotextile Hydraulic Properties		
Pore Size (O90)	100 <u>µm</u>	EN ISO 12956
Permeability (H50)	79 l/m ² /s	EN ISO 11058

Geotextile Physical Properties		
Mass per unit area	0.11 Kg/m ²	EN ISO 9864
Thickness	0.52 mm	EN ISO 9863-1



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STORAGE & SHELF LIFE

Store in an upright position, under cover and away from high temperatures and open flames. Shelf life is the lifetime of the structure, when stored and installed in line with recommendations.

HEALTH AND SAFETY

No specific hazards are likely to arise while using any Wallbarn Waterproofing Membranes or accessories. Neither are classified as hazardous in respect to CHIP II Regulations 1999. However, general precaution should be exercised in the use of drills, cutters, etc. taking particular note of the special risk associated with working in confined spaces (basements) with restricted access/egress. Wallbarn always advise the use of appropriate PPE, including gloves, hard hat, goggles, high visibility jackets and steel toe cap boots.