



Drain Master W283

HDPE Membrane (Cavity Former)

High Density Polyethylene Dimpled Sheet

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1.0 Description

Drain Master W283 is a HDPE membrane for water drainage and for protection of ground laid water proofing covering.

2.0 Technical Data

Material	High density low pressure polyethylene (HDPE)
Thickness	Approx 0.55 mm
Weight	Approx 550 g/m ²
Color	Black
Height of relief (Stub)	Approx 7 mm
Numbers of relief (Stub)	1332/m ²
Air volume between reliefs	Approx 5.3 ltr/m ²
Compression resistance	16 t/m ² (142 KN/m ²)
Elongation to break	65%
IZOD Resilience	180 j/m
Temperature range	From -40 ⁰ C to + 80 ⁰ C
Chemical properties	Resistant to acids contained in humus, inorganic acid and water
Biological properties	Not harmful for drinking water
Coefficient of elasticity at 23 ⁰ C	1500 N/mm ²
Shore hardness at 23 ⁰ C	63
Supply accessories	3.5/5.0 mm fixing plaques – 2 metres of fixing trim
Drainage Capacity	Approx 3.5 ltr/sec/metre length
Fire resistance	DIN 4102 Class B2

3.0 Typical Application

Horizontal

- Before commencing laying operations ensure that the substrate falls to the drainage outlets or is laid to ± 5 mm tolerance to prevent ponding in depressions.
- W283 is generally loose laid with the dimples facing the substrate in a continuous form and trimmed to suit columns and other obstructions. The sheets are to be overlapped 75mm (2 dimples) longitudinally and bonded together with La Bitutape A940 double sided self-adhesive tape. End laps and all cut edges are formed by overlapping 150mm (3 dimples), interlocking the dimples and sealing between the sheets with La Bitutape.
- Where columns penetrate W283 a continuous collar of La Bitutape should be married on to a primed surface painted with Primer. The W283 is laid to fit the profile and the La Bitutape should be bonded on the horizontal layer of W283 using a firm pressure to maintain the overall damp proofing.
- The W283 should be carried through to discharge of any water penetration. W283 may be located at 600mm cross centres using the appropriate pins and washers placed on the flat sheet or within the dimpled area and fixed to the substrate. Plain fixings should be covered and sealed with a patch of La Bitutape.
- If the dimples go out of register due to undulations in the substrate cut the sheet, form a lap in the usual manner and continue application. Walkways should be erected to support access and wheel barrows during the concreting of the top slab to prevent damage to the W283. Before concreting inspect all area to ensure the total integrity of W283.
- Any damaged area should be covered with a further oversize patch of W283 bonded with La Bitutape between the layers, and small cracks should be repaired by overbanding with La Bitutape. The mesh reinforcement must be supported off localised concrete infill or reinforcement chairs with care taken to avoid point loads.



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Vertical

W283 must be fastened vertically with the dimples against the external face in a similar manner to horizontally by overlapping 75mm longitudinally or 150mm at end laps and fixed as above to locate it securely in position before building the inner concrete or blockwork wall. At the wall to floor junction continuity is achieved by using a 150mm wide strip of LABOND W285 Self Adhesive Membrane to join the horizontal to the vertical sheets.

4.0 Application Guide Diagram

<p>Laying appropriate Waterstop into Construction</p> <p>Labond w285 Self Adhesive Membrane</p> <p>Land drain with filter fabric surrounded in gravel used to collect infiltrated ground water</p> <p>Typical section through underground structure with Drain Master W283 Cavity Former used to line excavation and collect infiltrated water.</p>	<p>Dimpled section provides former to create pedestals for load transfer</p> <p>Air void formed to allow water to be collected and drained to channels and sumps</p> <p>High density polyethylene construction supports load from wet concrete without deformation</p> <p>Insitu Concrete</p> <p>Water Ingress</p> <p>Drain Master W283 used as a drainage former horizontally.</p>
<p>SUBFLOOR DRAIN SYSTEM IN BASEMENT DESIGNED TO COLLECT WATER INFLOWED INTO A BUILDING AND DIVERT IT OUT BY AN AUTO-PUMP SYSTEM</p> <p>BASEMENT</p> <p>Drain Master W283</p> <p>AUTO PUMP SYSTEM</p>	<p>Drain Master W283 Method of Fixing.</p>

5.0 Packaging

20m x 1m / Roll, 480m² / pallet for 1m or 2m in width.

6.0 Health and Safety

Refer to relevant Material Health and Safety data sheets.