

Technical Support: [REDACTED]
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Marshalls M380 Tanking Membrane

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- Part of the Marshalls permeable paving system.
- Excellent mechanical and physical properties
- Restricts water entering the sub-grade.
- Preserves sub-grade structural integrity.
- Tape bonded or welded joints.

Description

Marshalls M380 Tanking Membrane is an enhanced polymer modified flexible membrane designed to suit Marshalls permeable paving system. The product is available in 4m x 20m roll format.

Application

Sustainable Urban Drainage Systems (SUDS) are increasingly being used to prevent run-off and flooding, and as a method of collecting and cleaning storm water. SUDS allow heavy rainfall to infiltrate through a permeable concrete block paved surface into a sub-base before being released in a controlled manner into sewers or watercourses.

Marshalls M380 Tanking Membrane provides an impervious layer ensuring attenuation of the collected stormwater. It restricts water entering the sub-grade and preserves sub-grade structural integrity.

System Components

Marshalls M380 Tanking Membrane is available with the following components:

- Marshalls M380 Tanking Membrane
- Marshalls flexible Top Hat Units
- Marshalls Double-Sided Jointing Tape

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STRUCTURAL WATERPROOFING
 AND GAS PROTECTION SYSTEMS

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Installation

Sub-grade

The sub-grade should be free from sharp protrusions likely to puncture the membrane. Refer to Marshalls literature for details of subgrade specification and preparation.

Membrane jointing

For most applications, tape-bonded joints are suitable. However, in applications where a high level of waterproofing integrity is required, such as sites with high water tables or areas above basement structures, the membrane should be laid with welded joints. For advice on which jointing option should be used, contact Marshalls design team on XXXXXXXXXX

Taped Joints

Ensure that the membrane is clean and dry at the time of jointing. The membrane should be overlapping by at least 300mm and bonded with Marshalls Double Sided Jointing Tape positioned approximately 50mm into the overlap. Pressure should be applied to the bonded area of the lap to ensure waterproofing integrity. Preforations or punctures in the membrane should be covered with another sheet of membrane, have an overlap of at least 300mm and the laps sealed with Marshalls Double Sided Jointing Tape.

Welded Joints

For details of contractors who undertake on-site welding of Marshalls M380 Tanking Membrane, contact Marshalls design team on xxxxxx.

Covering and Protection

In normal circumstances the membrane does not require additional protection. In some applications the membrane might require additional protection therefore specialist advice should be obtained in these circumstances.

SPECIFICATION SUPPORT

The following items are available to view online or to download from www.visqueenbuilding.co.uk

- . Technical Datasheets
- . Typical installation CAD details
- . Health and Safety data

Register online for access to NBS Clauses and for information about our CPD Seminars



TECHNICAL SUPPORT

For advice on detailing or installation call Visqueen Building Products Technical Help Line [REDACTED] Pricing & Availability may be obtained from our UK Network of merchant stockists. For details of these call our Sales Office on [REDACTED]

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Marshall's M380 Tanking Membrane has been thoroughly tested at independently approved laboratories to prove application suitability. The test results are declared below.

Product Data				
Characteristic	Test method	Units	Compliance criteria	Value or Statement
Length	EN 1848-2	m	-0%/+10%	20
Width	EN 1848-2	m	-2.5%/+2.5%	4
Thickness	EN 1849-2	mm	-10%/10%	0.38
Mass	EN 1849-2	g/m ²	-12%/+12%	395
Watertightness	EN 1928	-	Pass/Fail	Pass
Resistance to impact	EN 12691	mm/diameter	>MLV	30
Durability (artificial ageing)	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability (alkali)	Annex C	-	Pass/Fail	Pass
Resistance to low temperature	EN 495-5	oC	MDV	-30
Resistance to tearing (nail shank)	EN 12310-1	N	MDV	185 185
Resistance to static loading	EN 12730	Kg	>MLV	20
Elongation at Break	EN 12311-1	%	MDV	360 380
Tensile Strength	EN 12311-1	N/50mm	MDV	24.2 20.7
Resistance to Shear of Joints	EN 12317 -1	N/50mm	MDV	245
Flexibility at low temperature	EN 495-5	oC	MLV	-40
Dimensional Stability	EN 1107-1	%	MDV	-0.37/+0.2
Climate ageing and heat ageing of joints	EN 1296		Pass/Fail	Pass
Watertightness after exposure to Bitumen	BS En 1928:2000		Pass/Fail	Pass
Watertightness after exposure to dilute alkali - 16 weeks	BS En 1928:2001		Pass/Fail	Pass
Watertightness after heat ageing	BS En 1928:2002		Pass/Fail	Pass
Water Vapour Permeability	BS 3177	g/m ² /d	MDV	0.15
Unrolling at Low temp	Bre In-house method		Pass/Fail	Pass
Radon transmission rate	SP Method	m ² /s	MDV	21x10E-9
Radon permeability	SP Method	m ² /s	MDV	8x10E-12
Methane permeability		m ² /sec/Pa	MDV	1.563x10E-17
Carbon Dioxide		m ² /sec/Pa	MDV	1.473x10E-17

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