

SYSTEM-08 - CAVITY DRAIN WATERPROOFING MEMBRANE
Description

MacLennan SYSTEM-08 is a high quality cavity drain membrane suitable for use internally below the ground to retaining walls, vaulted soffits and floors as an option within our MacLennan waterproofing system.

08 is inert and, therefore, non-polluting to drinking water, highly resistant to water, alkalines, saline solutions and organic acids, and not affected by minerals and hydrocarbons. It is also rot-proof, and resistant to bacteria, fungi and other small organisms. Newton 508R and 508 eco Floor also both exhibit high compressive loading stability.


Key Benefits

- Third-party tested for long-term compressive load to ISO 25619-1 (2% compression over 50-years).
- Does not require extensive and damaging preparation to the wall surface.
- Speed of installation.
- Provides vapour control when used with humidity control systems and is capable of delivering an environment to all levels within a Grade 3 environment to BS 8102:2009.
- 08R & 08 eco Floor are independently certified as a barrier to hydrocarbon gases and radon.
- Resistant to rot, chemically aggressive groundwater, acids and alkalines, efflorescing salts and hydrocarbon contamination.

Suitable substrate - walls

- Concrete
- Brick
- Concrete block
- ICF - With special longer fixing plugs

Suitable substrate - soffits

- Concrete - To fall
- Brick - Arched or vaulted

Suitable substrate - floor

- Concrete raft or slab

FOR MORE INFORMATION

TEL: 0845 658 777 | **EMAIL:** enquiries@MacLennanuk.com | **WEB:** www.MacLennanuk.com

SYSTEM-08 - TECHNICAL DATA

Features	Result				Units	
	08	08R	08 Ecofloor	08 Mesh		
Material	HDPE	HDPE	HDPE	HDPE		
Colour	White	White	Black	White		
Density	500	700	800	600	g/m ²	
Width	2.4	2.07/2.4	2.5	2.0	m	
Length	20	20	20	20	m	
Area	48	40/48	50	40	m ²	
Height	8.0	8.0	8.0	7.4	mm	
Membrane thickness	0.6	0.8	0.8	0.8	mm	
Stud depth	7.4	7.2	7.2	6.6	mm	
Vicat softening temperature	126				°C	
Packaged weight	24.5	29.40 / 33.82	41.80	26.96	kg	
Service temperature	-40 to +80				°C	
Installed Performance	Result				Units	Test Method
Compressive strength - Temporary	N/A	280	520	N/A	kPa	EN 25619-2
Compressive strength - Permanent	N/A	7	21	N/A	kPa	EN 25619-1
Compressive strength - Permanent - with studs filled with C16 screed	N/A	800	800	N/A	kPa	EN 25619-1
Thermal conductivity	0.461				W/mK	EN 12667
Colour	White	White	Black	White		
Water vapour resistance – S _d value	> 604				m	BS EN 1931
Water vapour resistance – μ value	> 1208000				μ	Calculated from S _d value
Water vapour diffusion resistance	> 3020				MNs/g	Calculated from S _d value
Resistance to fire - Euroclass	Not tested - F					BS EN 13501-1
Chemical resistance – Excellent	100				%	EN 14030
Oxidation resistance – Excellent	100				%	EN ISO 13438
Radon gas resistance - Membrane*	N/A	3.1 x 10 ⁻¹²	4.4 x 10 ⁻¹²	N/A	m ² /s	K124/02/95
Radon gas resistance - Joints*	N/A	2.7 x 10 ⁻¹²	1.6 x 10 ⁻¹²	N/A	m ² /s	K124/02/95
¹ Resistance to liquid hydrocarbons*	N/A	Passed	N/A	N/A		EN 16140:2011
Carbon dioxide permeability*	N/A	1.36 x 10 ⁻⁸	N/A	N/A	m ² /s	See note**
Methane permeability*	N/A	1.42 x 10 ⁻⁸	N/A	N/A	m ² /s	See note**
Carbon dioxide transmission rate	N/A	318	N/A	N/A	ml/(m ² .d.atm)	ISO 15105-1
Methane transmission rate	N/A	63.1	N/A	N/A	ml/(m ² .d.atm)	ISO 15105-1

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