

A range of white thermally bonded nonwoven geotextiles that offer the highest levels of engineering performance and quality standards when used in the applications of Separation and Filtration

Uses

Fosroc NW Nonwoven Geotextiles play a major role in providing the functions of separation and filtration in numerous construction applications.

For separation: to prevent the intermixing of dissimilar soil layers

For filtration: to allow the passage of fluids whilst preventing the uncontrolled passage of soil.

In many instances the NW fabric actually performs both functions in one.

- As a general purpose separator for use under site access roads and areas of hardstanding
- As a separation and strengthening layer under new roadways, railways, car parks, industrial units etc.
- As a filter surround in the construction of a french drain or granular drainage blanket.
- As a filter when used in conjunction with Proofex Cavitydrain 200P for green roofs
- As a separating layer for Fosroc Polyurea WPE to be sprayed onto for loose-laid waterproofing

Advantages:

- NW mechanical properties that offer maximum strength in all directions throughout the length and width of every roll
- Unique manufacturing process utilising both mechanical and thermal bonding processes ensures that the NW offers superior performance at lower weight
- Waterflows normal to the plane that are generally several times more than that required by design
- A range of consistent opening sizes suited for use in soils ranging from clay to coarse granular fill.
- NW hydraulic properties that stimulate the build up of a natural soil filter in the adjacent soil and so ensure long term filtration stability.

Description

The Fosroc Geotextile NW range of Thermally Bonded Nonwoven Geotextiles have been designed to offer optimum performance per unit weight. Their resulting mechanical robustness and excellent hydraulic properties make them the ideal choice for separation and filtration.

Through the incorporation of an NW fabric in a separation/stabilisation design you can be assured of improved soil bearing capacities and with it a more stable construction.

Fosroc® Geotextile

NW 8/13/32/40/45kN

Properties

Mechanical Properties	Test	Units	NW8kN	NW13kN	NW32kN	NW40kN	NW45kN
Tensile strength - MD	EN ISO 10319	kN/m	8.3	13.2	32	40	45
Tensile strength - XD	EN ISO 10319	kN/m	8.3	13.2	32	40	45
Elongation at break - MD	ASTM D4632	%	60	53	71	64	71
Elongation at break - XD	ASTM D4632	%	70	60	75	71	72
CBR Puncture Resistance	EN ISO 12236	N	1390	2300	6000	7700	7700
Dynamic Cone Drop	EN 13433	mm	35	22	6	6	5
Hydraulic Properties							
Opening Size	ASTM D4751	um	180	78	45	61	19
Permeability	EN ISO 11058	m/s	112 x 10 ⁻³	98 x 10 ⁻³	42 x 10 ⁻³	35 x 10 ⁻³	27 x 10 ⁻³
Flow rate	ASTM D4491	l/m ² .s	130	77	43	30	28
Physical Properties							
Thickness under 2kPa	EN 964/1	mm	1.1	1.4	1.9	2.5	2.96
Weight	EN 965	g/m ²	110	170	385	500	625

Application instructions

Use in accordance with Method Statement for Fosroc Polyurea.

For other applications contact your local Fosroc office.

Estimating Supply

NW13kN	100 x 5.25m rolls
NW8kN	100 x 4.5m rolls
NW32kN	100 x 5.25m or 6m rolls
NW40kN	100 x 5.25m or 6m rolls
NW45kN	100 x 5.25m or 6m rolls

Precautions

Health & Safety

Mechanical lifting equipment required.

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Important note

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