

Biaxial polypropylene geogrid

Uses

For use as a basal reinforcing element in civil engineering groundwork applications including ground reinforcement, road and railway construction, temporary access roads, erosions control and paved area stabilisation.

Advantages

- Reduces layer thickness required for ground reinforcement
- Increases bearing capacity of weak subgrades
- Increases service life of roads
- Allows heavy plant access to sites
- Can be used to span voids
- Controls differential settlement
- Manufactured under ISO9001 and CE Marked

Description

Fosroc Geogrid is a biaxial polypropylene grid manufactured through an extrusion process and then stretched longitudinally and transversely. Black in colour, Fosroc Geogrid has equal strength in both directions and consists of a number of uniform rectangular apertures, typically 39mm x 39mm. Fosroc Geogrid has high tensile strength and is chemically inert.

Fosroc Geogrid is supplied in three grades: 20-20, 30-30 and 40-40.

Standards compliance

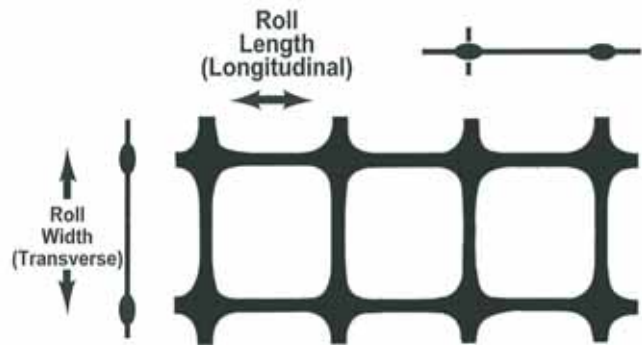
Fosroc Geogrid is CE Marked and manufactured under an ISO 9001 Quality Schemes. Fully complies with the requirements of the Construction Products Directive.

Specification clauses

The geotextile shall be Fosroc Geogrid, a polypropylene geotextile with equal strength in both axial and transverse directions. The geogrid shall be manufactured under an ISO 9001 Quality System.

Properties

Fosroc Geogrid typical dimensions



Grade	20-20	30-30	40-40
Weight in gr/sqm +/- 10% ISO 10319	280	370	500
Mean tensile strength kN/m EN ISO 10319	l = 20 w = 20	l = 30 w = 30	l = 30 w = 30
Load at 5% strain in kN/m EN ISO 10319	l = 15.6 w = 17.0	l = 21.0 w = 25.0	l = 26.0 w = 29.0
Break extension in % +/- 3% EN ISO 10319	l = 15 w = 11	l = 15 w = 11	l = 15 w = 11
Aperture (mm)	l = 39 w = 39	l = 39 w = 39	l = 33 w = 45
Thickness (mm)	l = 1.5 w = 1.1	l = 2.1 w = 1.5	l = 3.2 w = 1.8
Thickness at junction (mm)	3.8	5.0	6.2
Roll width (metres)	4.0	4.0	4.0
Roll length (metres)	50	50	30
Roll weight (kg)	66	80	60
Roll diameter (cm)	33	42	38

Fosroc Geogrid

Application instructions

Preparation

Ensure area is clear, removing all debris and vegetation. Excavate to lines and grades as instructed by engineer or as shown on technical drawing.

Application

Roll out the Fosroc Geogrid. Minimum overlap should be 300mm. Adjacent sections can be tied if necessary with plastic ties.

Fill can be directly laid and compacted on Fosroc Geogrid. If fill techniques warrant, the Fosroc Geogrid may be secured using pins, sandbags, or small piles of soil.

Estimating

Fosroc Geogrid is supplied in three grades, 20-20, 30-30 and 40-40.

The 20-20 and 30-30 grades are supplied 4m x 50m rolls. The 40-40 grade is supplied in 4m x 30m rolls.

Limitations

Do not drive tracked equipment on exposed geogrid.

Storage

Store in original unopened packaging, in cool dry conditions, away from direct sunlight.

Precautions

Health and safety

Fosroc Geogrid should be handled with gloved hands, taking care at roll edges which may become jagged.

Roll weight exceeds 25kg and should therefore be lifted by two or more operatives.

Fosroc Geogrid is chemically inert and there are no known hazards associated with Fosroc Geogrid in normal use.

Fire

Fosroc Geogrid is non-flammable



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Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Services, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it.

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