

Geofirma® TfNSW Specifications

Australian and New Zealand Road Authority Specifications

GEOFIRMA™ Characteristic Value Product Conformance

Transport for NSW (TfNSW) Specification R63

Department of Transport and Main Roads (QLD) Specification MRTS27

New Zealand Transport Agency Specification TNZ F/7

General

GEOFIRMA™ is a nonwoven continuous filament geotextile made from highly durable polyester fibres. The product is highly needed to produce an engineering textile that is suitable for a wide range of geotechnical applications involving filtration, drainage, protection and separation. The product has been manufactured to meet the specification requirements of the roading authorities referenced.

The product is available in roll widths to 6m.

The GEOFIRMA™ product range is produced in ISO accredited quality factories to the highest manufacturing standards for both local and international markets. The product is wrapped in a highly UV stable outer wrap such that the product may be left outside, onsite for later use provided the wrapper is not removed prior to deployment and use. For details on storage speak to your Global Synthetic office.

Product Conformance to Specification

QLD MRTS27 & NSW TfNSW R63 & NZTA F/7						
GEOFIRMA™ Grade	Strength Class	Grab Tensile Strength	Trapezoidal Tear Strength	G Rating	EOS Pore Size-O ₉₅	Flow Rate (Q ₁₀₀)
		N	N	-	µm	l/m²/s
		AS 3706.2	AS 3706.3	AUSTROADS 90	AS 3706.7	AS 3706.9
		Q Value	Q Value	Q Value	Mean Value	Mean Value
AS150A	A	> 500	> 180	>900	<120	>50
AS200B	B	> 700	> 250	>1350	<120	>50
AS270C	C	> 900	> 350	>2000	<120	>50
AS350D	D	> 1200	> 450	>3000	<120	>50
AS500E	E	> 1600	> 650	>4500	<120	>50

Notes

- The characteristics value is defined within each specification of each roading authority. The symbol to denote the characteristic value is Q. The determination of the characteristic value for each required property value of the geotextile (Q) = Mean - 0.83 (Standard Deviation) - for the lot tested.
- All grades of GEOFIRMA™ meet the following filtration classes:
 Filtration Class I-VIII for Department of Transport and Main Roads (QLD) - MRTS27
 Filtration Class 1-5 for TfNSW - R63
 Filtration Class 1-4 for NZTA F/7

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About Us

Leaders in Geosynthetics

Global Synthetics is a 100% Australian-owned company, proud to offer a complete range of high-quality geosynthetic products backed by over 200 years of combined staff experience in the industry.

We have supplied products to some of the largest recent infrastructure works in Australia. Global Synthetics provides major benefits to any geotechnical engineering project with the right products and our technical expertise.

Global Synthetics products are used in the following applications:

- Pavement Stabilisation
- Ground Improvement
- Soil Reinforcement and Retaining Structures
- Water Management
- Drainage Systems & Hydraulic Works
- Landfills
- Coastal Erosion Structures

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