Enviro Geofabric

Non-woven Geotextile Fabric

DESCRIPTION

Enviro Geofabric is a range of grey, non-woven, needle-punched polyester geotextiles manufactured in Australia. Its strong three-dimensional structure and high elongation provide excellent separation, filtration, drainage, and cushioning performance.

Three grades are available: Enviro Geofabric A14G (light duty filtration and separation), Enviro Geofabric A64G (heavy duty separation, filtration, and protection) and Enviro Geofabric A84G (extra heavy duty, needle-free protection geotextile for geomembranes and liners).

CLASSIFICATION

AS 3706 – Geotextiles – Methods of test (Parts 1 to 9)

Austroads – Guide to Geotextiles – Geotextile Strength Rating (G)

Strength class – A14G: Class A (Robust). A64G and A84G: Extremely Robust (G > 3000).

AREAS OF USE

SURFACES: Prepared subgrades, aggregate and fill layers, drainage trenches, retaining wall backfill, and geomembrane liners.

AREAS: Roads, rail, mining, waste and containment and civil works – separation under pavements, subsoil and retaining wall drainage, filtration, and protection of geomembranes and waterproofing membranes.

FEATURES & BENEFITS

- Excellent separation, filtration, and cushioning properties
- Strong three-dimensional structure with high elongation
- High water flow for rapid drainage
- A64G made with Australian recycled PET (bidim Green)
- A84G needle-free – metal detected for use against geomembranes.
- Designed to meet Australian and New Zealand road and rail authority requirements.

PRODUCT INFORMATION

Packaging	A14G – 50 m × 2 m rolls (100 m²) A64G – 75 m × 2 m rolls (150 m²) A84G – 50 m × 6 m rolls (300 m²)
Material	Non-woven, needle-punched polyester geotextile
Colour	Grey
Storage Conditions	Store rolls off the ground, wrapped and protected from direct sunlight and mechanical damage until installation.
Compatible Accessories	Enviro H Cell Enviro V Drain
Compatible Membranes	Enviro BSL Enviro TPO Enviro PVC

PHYSICAL PROPERTIES

Property (Standard)	A14G	A64G	A84G
Mass per unit area (AS 3706.1), g/m²	~155	–	~785
Wide strip tensile, MD/CMD (AS 3706.2), kN/m	11.0 / 11.0	37.5 / 37.5	52.0 / 52.0*
Wide strip toughness, MD/CMD (AS 3706.2), kJ/m²	2.5 / 2.5	8.2 / 8.2	14.2 / 13.1*
Grab tensile, MD/CMD (AS 3706.2), N	720 / 720	2,620 / 2,620	4,000 / 4,000*
Trapezoidal tear, MD/CMD (AS 3706.3), N	300 / 300	830 / 830	1,200 / 1,200*
CBR burst (AS 3706.4), N	2,000	6,400	9,000*
G rating (Austroads)	1,550	5,100	7,600*
Pore size O95 (AS 3706.7), µm	110	75	–
Permittivity (AS 3706.9), s^{-1}	3.20	0.90	–
Flow rate @ 100 mm head (AS 3706.9), L/m²/s	320	90	–

*Typical values unless marked. *A84G values are minimum average roll values (MARV). MD = machine direction; CMD = cross-machine direction. Values are obtained from independent and in-house NATA-accredited laboratory testing and may vary between production lots.*

COVERAGE RATE

Grade	Roll Size	Area per Roll	Duty
A14G	50 × 2 m	100 m²	Light

ACCESSORIES

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Grade	Roll Size	Area per Roll	Duty
A64G	75 × 2 m	150 m²	Heavy
A84G	50 × 6 m	300 m²	Extra heavy

Area per roll is gross. Allow for overlaps (typically 300–500 mm, or as specified), detailing and wastage.

SUBSTRATE PREPARATION

Prepare the subgrade or surface to the design levels, free of sharp protrusions, roots, debris, and standing water. When used as a protection layer, ensure the underlying membrane or geomembrane is complete, inspected, and free of contaminants before placement.

APPLICATION

Placement: Unroll Enviro Geofabric directly onto the prepared surface, keeping it flat and free of wrinkles and folds. Cut to size with a sharp knife.

Overlaps: Overlap adjacent rolls by at least 300 mm (increase on soft subgrades, or as specified), shingled in the direction of fill placement or water flow. Alternatively, sew or heat-bond seams where specified.

Securing: Temporarily hold in place with sandbags, pins or fill to prevent wind lift. Do not use pins over geomembranes – use ballast only.

Cover: Place fill or aggregate as soon as practical, end-tipping and spreading forward so that construction plant does not travel directly on the exposed geotextile. Minimise UV exposure by covering promptly.

For applications or situations not covered above, contact Envirosystems technical support.

CLEANING

No cleaning of tools is required. Dispose of offcuts as general construction waste.

LIMITATIONS

- Protect from prolonged UV exposure – cover promptly after placement.
- Do not drive construction plant directly on the exposed geotextile.
- Select the grade to suit the design loads, filtration, and protection requirements.

HEALTH & SAFETY ADVICE

Enviro Geofabric is an inert polyester product and is non-hazardous. Wear gloves when handling and cutting, use safe manual handling practices (A84G rolls are large and heavy – use mechanical lifting), and take care with knives. Refer to the Safety Data Sheet for full safety and handling procedures.

KEEP OUT OF REACH OF CHILDREN

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to accuracy, reliability, or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

NOTE: Field service where provided does not constitute supervisory responsibility. Suggestions made by Envirosystems, either verbally or in writing may be followed, modified, or rejected by the owner, engineer, or contractor since they, and not Envirosystems, are responsible for conducting procedures appropriate to a specific project.

NOTE: All products manufactured by Envirosystems comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.

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