

**GEOFABRICS**<sup>®</sup>

Smarter Infrastructure

# **EnduraSeal**<sup>®</sup>

**GEOCOMPOSITE  
LINER FOR USE IN  
ARTIFICIAL TURF  
SPORTSFIELDS**

# ABOUT ENDURASEAL

**EnduraSeal is a geocomposite liner designed for use in artificial turf sportsfields to protect the synthetic grass system from subgrade moisture variations which can lead to differential settlement.**

EnduraSeal consists of either a 250um or 500um polyethylene PE geomembrane liner between two layers of industry leading bidim nonwoven geotextile. bidim provides a cushion effect to the HDPE geomembrane, protecting it from damage from angular subgrade materials and aggregates.

Enduraseal is easy to install with use of the Geofabrics glue laminating system- removing the need for complex wedge welding on site by specialist lining installers.



## Drainage

EnduraSeal allows water to flow within the plane of the geocomposite, allowing the dissipation of pore water pressure which can have a detrimental effect on engineering structures.



## Separation

EnduraSeal provides separation between the subgrade and the drainage aggregate layer, preventing migration of subgrade materials into the aggregate layer above - maintaining the performance of the individual materials.



## Cushioning

EnduraSeal prevents damage to geomembrane by limiting deformation and puncturing potential.



## Barrier

EnduraSeal prevents water from entering the synthetic grass system from the subgrade- preventing moisture variations which can lead to differential settlement.

# BENEFITS

- ✓ Easy to Install

EnduraSeal can easily be made waterproof at overlaps and joins with use of the Geofabrics glue laminating system. The system is available to hire exclusively from Geofabrics and it doesn't require any specialist skills or expertise to operate.
- ✓ In stock when you need it

Geofabrics aims to have EnduraSeal in stock ready for when you need it. This means you don't need to store large quantities of stock or tie up capital in stock holdings.
- ✓ Custom grades to suit site conditions

For large specialty applications we can produce EnduraSeal in a range of geomembrane and geotextile grade combinations to suit your site conditions and aggregate requirements.
- ✓ Design and installation support

EnduraSeal is supported by technical assistance from our Geofabrics engineers. Installation equipment is also available to help ensure efficient and correct installation.
- ✓ Australian made

EnduraSeal is manufactured in Albury at Geofabrics' award winning factory.

# TECHNICAL SPECIFICATION

Enduraseal ES500A34X2 is a geocomposite liner that consists of two 260g/m<sup>2</sup> nonwoven geotextiles bonded top and bottom to a 0.5mm polyethylene PE geomembrane liner.

The values published below are to the best of our knowledge true and correct. The product specification may change at any time without prior notice. No warranty is expressed or implied. Manufactured by Geofabrics Australasia Pty Ltd to the ISO 9001 Quality Management System Standard.

PROPERTY	TEST METHOD	UNITS	VALUE <sup>1</sup>
Mass	AS 3706.1	g/m <sup>2</sup>	1,100
Grab Tensile Strength	AS 3706.2	N	3,400
Grab Elongation	AS 3706.2	%	>50%
Trapezoidal Tear Strength	AS 3706.3	N	1,400
Rod Puncture Strength	ASTM D4833	N	1,200
Membrane Thickness	AS 3706.1	mm	0.50
Geotextile Mass - bidim A34	AS 3706.1	g/m <sup>2</sup>	>260
Roll Dimensions	-	m	4.0 x 50.0

**Notes:**

1. All values are typical. A typical value is the arithmetic mean of a set of results. This implies that 50% of the tested specimens will typically exceed this value and 50% will typically not meet this value.

# INSTALLATION GUIDELINES

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Placement procedures for EnduraSeal should be in accordance with the project specifications. This will include compliance with stripping, grubbing and final trim, grading requirements, cover material specifications, lift thicknesses and equipment requirements. Other considerations such as placement in wind should be addressed in construction or site specific specifications.

Performance considerations such as removal of wrinkles and folds or pre-tensioning the geocomposite should also be addressed as specified.

Overlaps should be joined using the Geofabrics glue laminating system with the supplied glue.

For more information about installation of EnduraSeal using the Geofabrics glue laminating system please contact your local branch.

# TECHNICAL SUPPORT

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As Australasia's geosynthetic specialists, Geofabrics is able to provide additional support services to ensure the best product solution is offered on every project.

We leverage the expertise of our internal resources, including professional engineers who are specialists in their fields, to provide detailed design suggestions for your project. Our design suggestions can help fast-track your design process, provide another technical

viewpoint and reduce construction costs while delivering value over the life of your project through innovative use of geosynthetics as a solution.

Our team also offer generic standard specifications and drawings to enable designers to complete project documentation faster and reduce the risk of error in the documentation.

# RESEARCH & DEVELOPMENT

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Geofabrics is committed to pursuing research and development of our products in testing and performance in various insitu environments.

For technical information, or a tour of our Albury or Ormeau manufacturing plant or the Geosynthetics Centre of Excellence, please contact your closest Geofabrics office or email [technicalsupport@geofabrics.com.au](mailto:technicalsupport@geofabrics.com.au)

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