



CONDUCTIVE LEAK DETECTION CUSHION FOR GEOMEMBRANES

BIDIM[®] C CONDUCTIVE NON-WOVEN GEOTEXTILE



protect
contain
secure

GEOFABRICS
Sustainable solutions



**Detects holes
& defects
as small as
0.2mm
in diameter**

**Needle-free
certified for
geomembranes**



**Australian
made**

**Ease of
installation**

Bidim C Conductive Non-Woven Geotextile

Bidim[®] C is the world's first commercial conductive non-woven geotextile. It has been designed to provide effective and economical leak detection means for designers and installers of geomembrane lining systems, including landfills, tailings dams, tanks, and potable water storage facilities.

Bidim C enables precise leak detection surveys through Arc testing of holes and defects as small as 0.2mm. Certified as needle-free, it ensures safe direct contact with geomembranes.

Using Bidim C non-woven geotextile mitigates the need for water compared to conventional leak detection surveys as the electrical circuit can be completed without relying on a wet subgrade. This technology is particularly efficient in dual lining applications and/or when installed below the primary liner and above a geocomposite layer that separates the subgrade from the liner.

Bidim C features a strong three-dimensional structure with high elongation, providing excellent filtration and also performing as a cushion to the subgrade.

Why choose Bidim C?

Bidim C non-woven geotextile is made in Australia with graphene, which is a two-dimensional sheet of carbon atoms, considered to be the lightest, strongest, and most electrically conductive substance yet discovered.

Alternatively, Bidim C can be partially made with either recycled polyester fibres or 100% virgin fibres. The stock produced and held will be partially made from recycled materials, unless a different specification is requested.

Virgin PET Bidim C must be specified in order to manufacture for site-specific needs and requirements, but this has minimal impact to lead times.

Bidim C provides:

- An effective and economical leak detection means for geomembrane lining systems
- A strong three-dimensional structure with high elongation, providing excellent filtration and acting as a cushion to the subgrade
- Easy installation with no heavy machinery, equipment or special skills required
- Durability with a high melting point and high UV resistance thanks to Bidim polyester properties

Installation

Bidim C is simply rolled out onto either the subgrade or geocomposite below the primary liner and requires only a 100mm overlap to maintain the conductivity across when using standard liner integrity survey equipment.

Overlapping joints loose is typically sufficient to achieve continuity across roll edges, however welding is often preferred to limit impacts from wind prior to covering. If welding of overlaps is preferred, heat and pressure welding can be carried out using a Demtech welder or similar, as it maintains conductivity between joints.

Once the primary liner is then laid and install over the Bidim C, conductivity testing may commence.

Spark or arc testing can be conducted to American Society for Testing & Materials (ASTM) Standardised Specification D7953 at as low as 1kV, compared to other conventional methods up to 30kV.



WORLD'S FIRST CONDUCTIVE GEOTEXTILE FOR PRECISE AND COST-EFFECTIVE LEAK DETECTION IN GEOMEMBRANE LININGS





AUSTRALIAN-MADE GEOFABRICS

Geofabrics is the only geotextile manufacturer in Australia, with plants in Albury and Ormeau. We pride ourselves on providing unrivalled service to our customers. We can recommend the best geosynthetic product to achieve the objectives of your project and ensure it's available when you need it.

Over 40 years of experience allows our technical staff to provide practical support, based on local conditions. We are proud to have been recognised in the Australian Financial Review (AFR) Most Innovative Company list in 2020 with Bidim Green.

In 2021, Geofabrics ranked #1 in AFR's Most Innovative Company for Manufacturing and Consumer Goods for Sorbseal.

With a view to the future, we are committed to improving the sustainability of our business by reducing waste to landfill, lowering our carbon emissions and investing in our people.



Visit [geofabrics.co](https://www.geofabrics.co) or call 1300 60 60 20 (AU)
or [geofabrics.co.nz](https://www.geofabrics.co.nz) or call 0800 60 60 20 (NZ)



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