



# 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<sup>®</sup> 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, offering superior filtration and cushioning to the subgrade.

### **Why choose Bidim C?**

Bidim C non-woven geotextile is made in Australia with an ultra-thin, carbon-derived conductive layer across the top surface, engineered to deliver superior electrical performance. This conductive structure enables sensitive and consistent current transmission, which is essential for effective geomembrane leak location surveys.

Standard Bidim C is manufactured using a combination of virgin PET and high-specification recycled PET. For projects requiring 100% virgin PET, it can be produced on request with minimal impact on lead times.

### **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**





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.

— FINANCIAL REVIEW **BOSS** —  
**MOST** INNOVATIVE  
 COMPANIES



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 or **geofabrics.co.nz** or call 0800 60 60 20 (NZ)

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