



Planter Protect Ltd

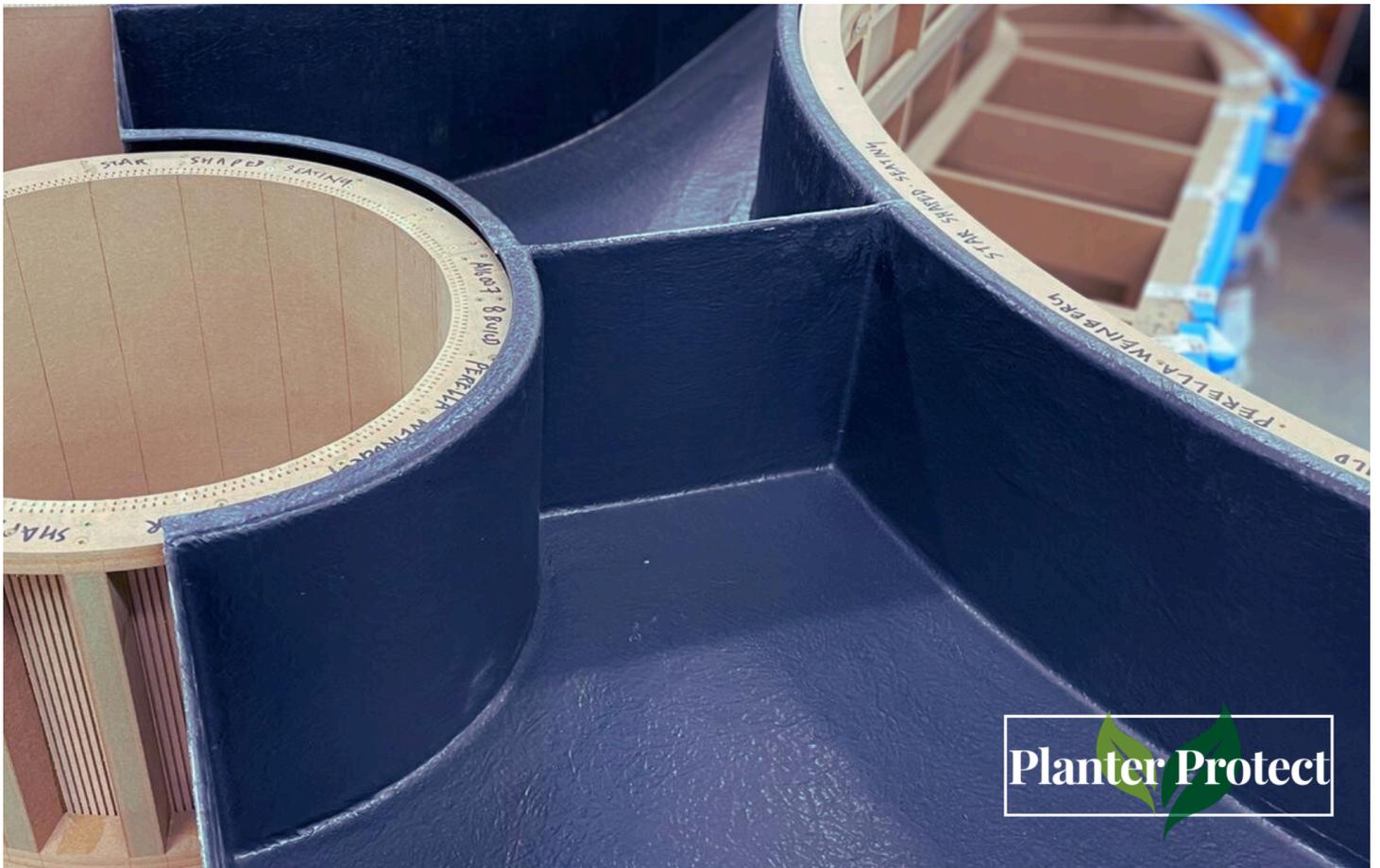
Bespoke Planter Inserts

Bespoke GRP / PET Resin Waterproof Planter Inserts

Product Description

High-performance bespoke waterproof planter inserts manufactured from glass-reinforced plastic using PET resin, designed for demanding interior and exterior architectural, landscape and joinery applications.

The system provides a lightweight, durable, fully watertight planting solution suitable for integration into joinery, façades, podiums, rooftops and interior fit-outs.



Typical Applications	<p>Façade-integrated planters</p> <p>Joinery & millwork planter construction</p> <p>Rooftop and podium landscaping</p> <p>Interior biophilic installations</p> <p>Hospitality, retail and commercial fit-outs</p>
Material Composition	<p>Material: Glass-reinforced plastic (GRP)</p> <p>Resin System: PET resin</p> <p>Recycled Content: Approx. 1,800 recycled PET bottles per 22 kg drum of resin</p> <p>Construction: Fully bonded, seamless waterproof structure</p>
Dimensions & Bespoke Capability	<p>Wall Thickness: 5 mm standard</p> <p>Weight: approx. 7 kg/m²</p> <p>Manufacture: Fully bespoke sizes, shapes and configurations available</p> <p>Tolerances: Manufactured to project-specific requirements</p>
Performance Characteristics	<p>Waterproof Performance: 100% watertight construction</p> <p>Root Resistance: Fully root-resistant</p> <p>Chemical Resistance: Resistant to fertilisers, irrigation additives and common landscaping chemicals</p> <p>Freeze-Thaw Resistance: Suitable for external environments subject to temperature variation</p> <p>Impact & Load Resistance: High structural strength relative to weight</p>

Environmental & Sustainability Performance

- **Environmental Product Declaration (EPD):** Currently Pending
- **Recycled Content:**
High recycled content via PET resin system – approx. 1,800 recycled PET bottles per 22 kg drum of resin
- **Closed-Loop Manufacturing Model:**
Products are supported by a return and repurpose service, allowing end-of-life planter inserts to be recovered, reprocessed and returned into the manufacturing cycle, significantly reducing landfill and virgin material demand.
- **Embodied Carbon:**
Significantly lower than concrete and steel planter construction, with further reductions achieved through lightweight transportation efficiencies.
- **Durability & Circularity:**
Long service life combined with closed-loop recovery reduces replacement cycles and overall environmental impact.
- **Contribution to Sustainable Construction:**
Supports circular economy principles, waste reduction strategies and low-carbon construction objectives.

Installation Overview

(Refer to Installation Guide for full requirements)

- Suitable for integration with joinery, façade systems and landscaping build-ups
- Compatible with standard waterproofing.

Maintenance

(Refer to Maintenance and Care Guide for full recommendations)

Low maintenance; resistant to rot, corrosion and degradation.
Cleaning with standard non-abrasive methods is recommended.

Return and Repurpose Service

Planter Protect Ltd operates a closed-loop return and repurpose service for its planter insert systems.

At the end of the product's service life, planter inserts can be returned to Planter Protect Ltd for recovery, reprocessing and reintegration into the manufacturing cycle. This significantly reduces landfill, limits the use of virgin materials and supports circular economy principles within the construction sector.

Service Benefits

- Reduces end-of-life environmental impact
- Supports BREEAM, WELL and ESG project objectives
- Extends material lifecycle through controlled reuse
- Minimises waste and resource consumption
- Strengthens long-term sustainability performance of the project

This service forms a core part of Planter Protect Ltd's sustainability strategy and commitment to responsible manufacturing.