



Planter Protect Ltd

Bespoke Planter Inserts

Sustainability & Environmental Statement

Purpose

This Sustainability & Environmental Statement outlines the environmental considerations associated with bespoke GRP / PET resin waterproof planter inserts manufactured for architectural applications.

The document is intended to support early-stage specification, design development and sustainability discussions. It does not replace a formal Environmental Product Declaration (EPD) or third-party certification, but provides transparent information to assist informed decision-making.



Material Composition & Resource Use

The planter inserts are manufactured using GRP incorporating PET resin.

PET resin is widely used in applications that support the reuse of existing plastic material streams and offer a durable alternative to traditional construction materials.

Material selection prioritises performance, durability and long-term service life, supporting reduced replacement cycles and lower material use over the life of a project.

The use of PET-based materials contributes to reduced reliance on traditional construction materials and supports broader waste-reduction and resource-efficiency objectives.

Weight Reduction & Material Efficiency

GRP / PET resin planter inserts are significantly lighter than traditional planter construction methods such as:

- Cast concrete
- Masonry-lined planters
- Solid metal planter systems

Weight reduction offers several environmental and project benefits:

- Reduced structural loading requirements
- Lower material volumes in supporting structures
- Improved handling efficiency during installation
- Reduced embodied impacts associated with heavy construction materials

Durability, Longevity & Replacement Cycles

The planter inserts are designed to be:

- Fully waterproof
- Root resistant
- Resistant to common planting media, fertilisers and moisture exposure

When correctly specified, installed and maintained, GRP / PET resin planter inserts offer long service life, reducing the frequency of replacement and refurbishment compared to less durable liner solutions.

Extended service life contributes to:

- Reduced material consumption over the building lifecycle
- Lower waste generation
- Improved whole-life environmental performance

Transport & Installation Efficiency

The lightweight nature of GRP / PET resin planter inserts contributes to transport efficiency:

- Reduced transport loads compared to heavy planter systems
- Improved packing efficiency
- Easier on-site handling with reduced reliance on mechanical lifting

These factors can result in lower transport-related emissions and reduced on-site energy use.

End-of-Life Considerations

Return & Repurpose Service

Where available, Planter Protect Ltd offers a **Return and Repurpose service** for planter inserts removed at end of life or during refurbishment.

This service aims to:

- Divert material from landfill where feasible
- Enable reuse or repurposing of viable components
- Support circular-economy principles

Disposal

Where return or repurposing is not chosen, although it is highly recommended, planter inserts should be disposed of in accordance with local regulations.

At present, end-of-life routes may include landfill where suitable recycling facilities are not available. Where facilities exist, recycling routes for GRP / PET-based materials should be explored.

Alignment with Sustainability Frameworks

While this product does not itself provide certification credits, the information outlined in this statement may support project sustainability objectives, including:

- Reduced material impacts
- Improved durability and lifecycle performance
- Waste reduction strategies

This information may assist design teams working toward standards such as BREEAM, WELL or client-specific ESG requirements.

EPD - Environmental Product Declaration

An Environmental Product Declaration (EPD) is currently being developed for this product and will be available in the near future to support a detailed sustainability assessment.

Contact

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