

Grasscrete™

Permeable pavement

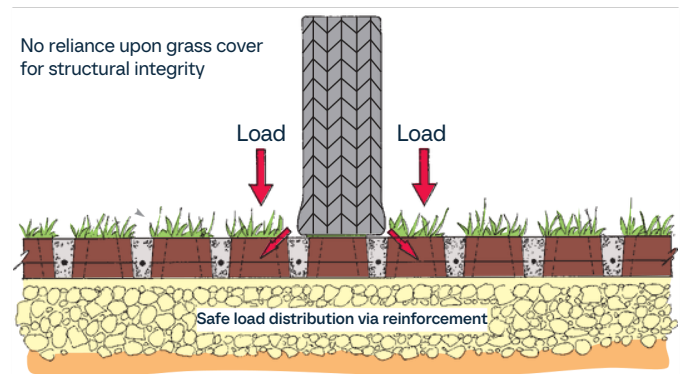
Load-bearing, permeable pavement

Grasscrete™ from Stormwater360 is a cellular reinforced concrete paving system with voids created by plastic void formers. Grasscrete™ is cast-on-site by pouring concrete over these formers, which creates voids in the concrete. Once formed these voids can be filled with a variety of porous materials such as vegetation or no-fines stone.

This permeable pavement allows stormwater to infiltrate into the ground, where it percolates through the soil and is naturally filtered prior to recharging groundwater, minimising the need to control stormwater runoff.

Grasscrete™ is lightweight, and offers significant structural advantages over other pre-cast concrete and plastic systems, with its ability to withstand high traffic loads. This self-venting paving system is ideal for parking areas, spillways, storm/drainage channels and river and sea defences.

Grasscrete™ offers the ability to provide year-round access for applications requiring structural paving surfaces without compromising the aesthetics of exterior landscaping and utilising traditional hard pavements.



MOLDED PLASTIC FORMERS

- Manufactured from recycled plastic
- 14cm Thick Cast-in-Place Concrete
- 37.5% Surface and Effective Void



BENEFITS

Economical Benefits

- Long life-cycle
- Build a Larger Footprint
- Eliminate Costly Infrastructure
- Low Maintenance Costs

Environmental Benefits

- Stormwater Infiltration
- Recycled Content
- Increase Greenspace/Reduce Heat Island Effect

STRUCTURAL PERFORMANCE

Grasscrete™ combines the environmental appeal of natural grass with the engineering principles of reinforced concrete, to provide year round access for a variety of applications.

High Load Bearing Capacity Effective with Saturated Sub-base
Standard systems support up to 50 ton vehicles along with such customised applications as military use or light speed rail track access.

Resists Differential Settlement

The structural integrity of Grasscrete™ is not reliant upon the vegetation and can be trafficked once the concrete reaches adequate compressive and flexural strengths.

No Requirement for Edge Details

Grasscrete™ blends naturally with adjacent finishes with subtle delineation created by a monolithically cast solid concrete edge margin.

Lower Sub-base Depth Needed

Due to its section thickness and continuous reinforcement, Grasscrete™ can be installed over slimmer sub-bases than required for pre-cast or plastic type pervious pavements.



APPLICATIONS



PARTIALLY CONCEALED GRASSCRETE™

Partially Concealed Applications Include:

- Vehicle Parking
- Access Roads
- Road Shoulders
- Driveways
- Fire and Emergency Access



CONCEALED GRASSCRETE™

Concealed Applications Include:

- Fire and Emergency Access
- Overflow Vehicle Parking
- Low Traffic Access Roads
- Medians

CONTACT DETAILS

Stormwater360

FREEPHONE:

0800 STORMWATER
(0800 786769)

www.stormwater360.co.nz

