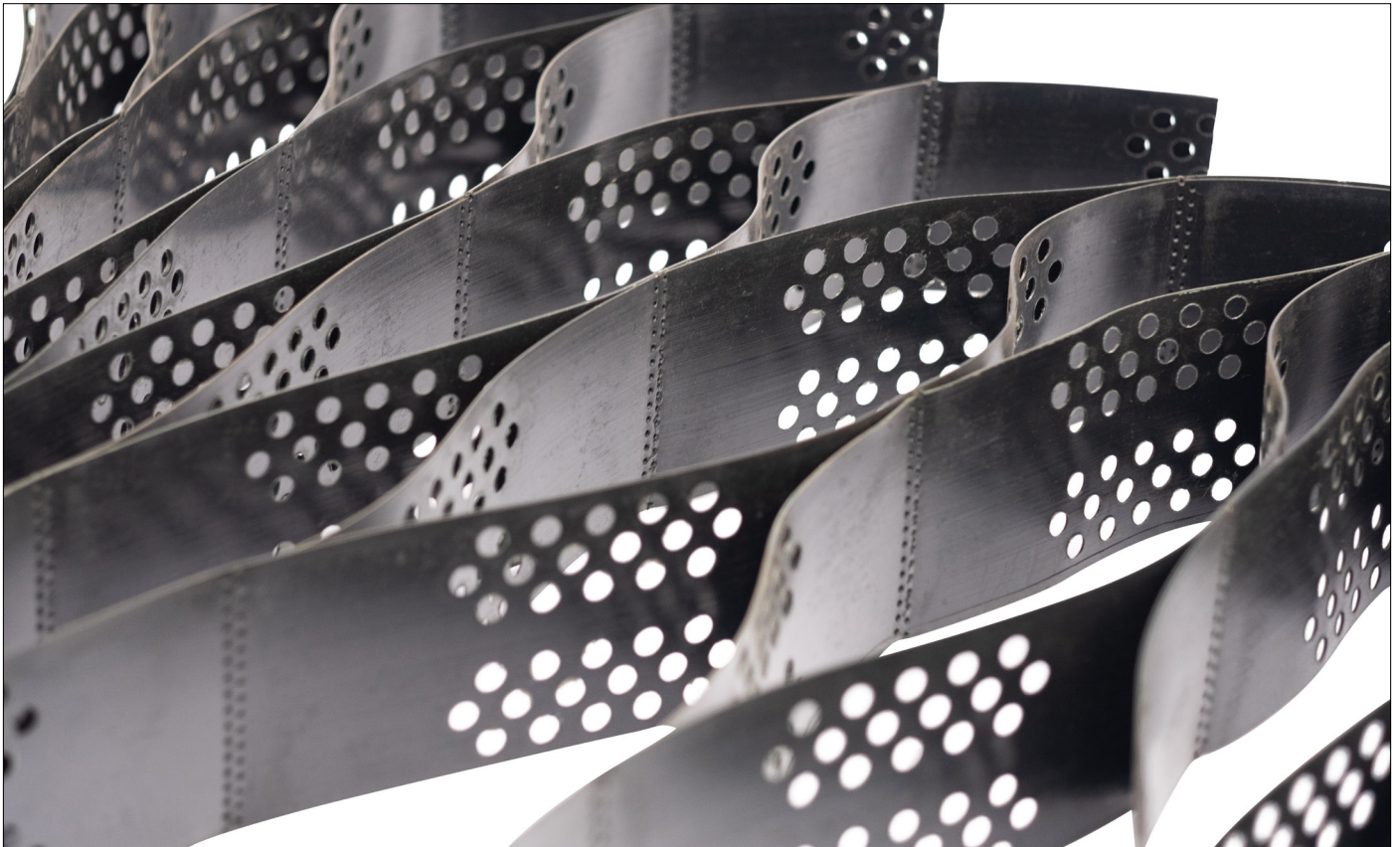


# RootSafe

## Flexible matrix for tree root protection



### Overview

RootSafe provides a flexible and permeable solution for protecting tree roots, creating a robust and stable platform for constructing vehicular access paths within the root protection area of existing trees without damaging the roots.

The cellular structure and perforated cell walls of RootSafe, reduces the vertical load pressure on sub soils to tree roots and prevents damage. With clean granular materials as infill air and moisture can reach the roots to encourage healthy prolonged growth. With no-dig solutions being the preferred option, RootSafe, combined with a base layer of 25kN/m non-woven geotextile, is ideal as only the surface vegetation need be removed.

As well as avoiding disruption to the roots this reduces construction times and costs as well as controlling surface rutting to increase the long-term performance and aesthetics of the final surface.

### Features

- Protection and vegetation for steep slopes and spoil tips.
- Reinforced grass surfaces for access roads, car parks, fire access etc.
- No dig drive tree root protection.
- Basal support for block paving under heavy loading.
- Sand dune stabilisation.
- Liner protection to lakes and ornamental ponds.

### Benefits

- Forms pockets to locate and strengthen the fill material.
- Cellular matrix of interconnecting polymer strips.
- Protects vegetation.
- Makes it possible to reduce foundation stone thickness by up to 50%.
- Life expectancy of 120 years.
- Slope Stability.
- Tested in accordance with BSEN 964-1.
- Tested in accordance with BSEN ISO 13426-1-2003.

	Code	Description	Unit
Product Codes	RS075	RootSafe 75mm Root Protection Cellular Confinement 6x4mtr Panel complete with 300mm pins and 25kN/m non-woven geotextile	Sqm
	RS100	RootSafe 100mm Root Protection Cellular Confinement 6x4mtr Panel complete with 300mm pins and 25kN/m non-woven geotextile	Sqm
	RS150	RootSafe 150mm Root Protection Cellular Confinement 6x4mtr Panel complete with 400mm pins and 25kN/m non-woven geotextile	Sqm
	RS200	RootSafe 200mm Root Protection Cellular Confinement 6x4mtr Panel complete with 600mm pins and 25kN/m non-woven geotextile	Sqm

	Code	Cell Height	Junction Tensile Strength <sup>2</sup>	Panel Weight	Material Tensile Strength
Technical Properties	RS075	75mm	900N	17kg	22kN
	RS100	100mm	1,200N	24kg	
	RS150	150mm	1,800N	36kg	
	RS200	200mm	2,400N	48kg	

Size	Panel Size {Fully expanded}: 6.00m x 4.00m Cell Diameter: 300m
Material	High-Density Polyethylene Finish: Natural Colour: Black Material Thickness: 1.20mm
Lifespan	Life expectancy (Including Joints) 120 years.
Maintenance	No maintenance required

**Geotextile Properties**

Property	Standard	Units	Value	Results
<b>Mechanical</b>				
Tensile strength (MD/cd)	EN 10319	kN/m	AVERAGE	25/25
Tensile ELONGATION (MD/cd )	EN 10319	%	AVERAGE	65/65
RESISTANCE TO STATIC PUNCTURE	EN ISO 12236	N	AVERAGE	4300
DYNAMIC PERFORATION RESISTANCE	EN ISO 13433	mm	AVERAGE	13