

DRAINAGE CELL

MODULAR HORIZONTAL DRAINAGE

Roof gardens

Planter boxes

Podium landscaping

Sports fields

Civil works



30MM & 50MM DRAINAGE CELL

AUSDRAIN 30mm and 50mm drainage cells provide a permanent, structural and non-clogging void between the building structure and the soil profile that will not collapse or distort. The void enables a direct flow of water to designated outlets resulting in superior drainage efficiency compared to conventional gravel filled systems.



APPLICATIONS	FEATURES	BENEFITS
<ul style="list-style-type: none"> • Planter boxes • Roof gardens • Podiums • Retaining walls • Civil works • Sports fields • Under slab drainage 	<ul style="list-style-type: none"> • High compressive strength • Open structure • Durable • Lightweight • Supplied in large panels • Superior quality • Made from recycled plastic 	<ul style="list-style-type: none"> • Trafficable • High flow rate • Long life expectancy • Easy to handle • Quick to install • Chemical and bacteria resistant • Environmentally friendly

AUSDRAIN 30mm and 50mm drainage cells are the most effective and efficient drainage solutions for planter boxes, roof gardens, podium landscaped areas and most horizontal drainage applications.

It features high compressive strength and is lightweight reducing weight on the underlying structure by 98% compared to gravel. In addition, there is a 5:1 reduction in the drainage medium height enabling greater scope for soil depth and plantings.

The drainage cell in combination with a geotextile fabric acts as the protection layer for the underlying waterproof membrane and provides ventilation for concrete slabs.

The geotextile fabric is placed over the drainage cell and combined with a layer of washed river sand, filters the water eliminating staining caused by gravel, stone and soil.

AUSDRAIN 30mm and 50mm drainage cells are supplied in easy to handle panels making installation fast, saving valuable time and labour on large scale projects. The panels can also be easily interlocked for vertical installation within planter boxes and against retaining walls.

Technical data

30mm drainage cell

Height	30mm
Width	500/1000mm
Length	500/1000mm
Weight	3kg/sqm
Surface void	>65%
Compressive strength	>80 t/m ²
Flow rate	>14400 litres/h/sqm @ 1% fall
Service temperature	-30c +120c
Material	Recycled polypropylene
Chemical properties	Unaffected by moulds and algae, soil-bourne chemicals and bacteria

50mm drainage cell

Height	50mm
Width	300/1000mm
Length	500/1200mm
Weight	6.5kg/sqm
Surface void	>90%
Compressive strength	>210 t/m ²
Flow rate	>19200 litres/h/sqm @ 1% fall
Service temperature	-30c +120c
Material	Recycled polypropylene
Chemical properties	Unaffected by moulds and algae, soil-bourne chemicals and bacteria

Installation procedure

1. Place the drainage cell over the surface of the membrane and butt together (interlocking is not required). For additional protection a layer of 3mm protection board is recommended under the drainage cell.
2. Cut the drainage cell where required using a hand or circular saw.
3. Place the filter fabric over the drainage cell allowing for a 150mm overlap at each seam. Allow for additional fabric to cushion the edges of the drainage cell around the perimeter against the waterproof membrane and walls.
4. Install the drainage cell vertically to the walls of the planter boxes if required and cover with filter fabric. Allow sufficient overlap to the horizontal sections.
5. Lay a 50-100mm layer of coarse washed river sand to act as a filtration layer over the fabric.
6. Lay the soil profile to the required depth. Please note that a minimum of 300mm of cover is required before allowing vehicles and machinery to traffic over the surface.

1. Waterproof membrane
2. Protection board
3. Drainage cell
4. Geotextile fabric
5. Coarse washed river sand
6. Soil mix
7. Outlet pipe
8. Planting/landscaping

