



EcoClean Ausdrain
drainage cell
modular horizontal drainage



EcoClean Technology Sdn Bhd
STORMWATER SOLUTIONS

30mm drainage cell

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

applications	features	benefits
<ul style="list-style-type: none">• Planter boxes• Roof gardens• Podiums• Paving• Retaining walls• Civil works• Sports fields• Under slab drainage	<ul style="list-style-type: none">• High compressive strength• Open structure• Durable• Lightweight• Supplied in 1m x 1m panels• Totally inert• 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



ECOCLEAN AUSDRAIN 30mm drainage cell is the most effective and efficient drainage solution 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.

ECOCLEAN AUSDRAIN 30mm drainage cell is supplied in easy to handle 1m x 1m panels making installation fast, saving valuable time and labour on large scale projects. The panels can also be easily interlocked for vertical installation against planter boxes and retaining walls.

product specifications

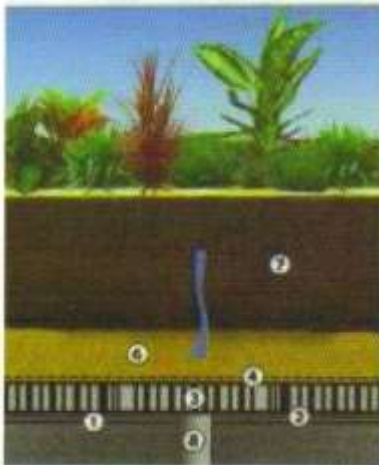
technical data

30mm drainage cell	
Depth:	30mm
Width:	500/1000mm
Length:	500/1000mm
Weight::	3kg/sqm
Surface void:	>65%
Volume void:	30litres/sqm
Compressive strength:	>ISO0kPa
Drainage capacity:	>14400litres/h/sqm
Service temperature:	-30c + 120c
Material:	Recycled polypropylene
Filter fabric	
Thickness:	1.2mm
Width:	2.0/4.0m
Pore size:	.ISOmm
Permeability:	0.29cm/seg
Permitivity:	2.7 seg ⁻¹
Flow rate:	6925 litres/min/m ²
Material:	Polypropylene

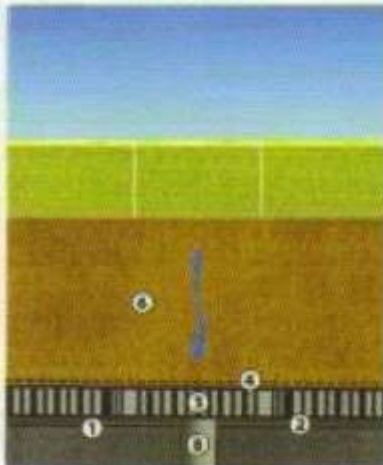
installation procedure

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.

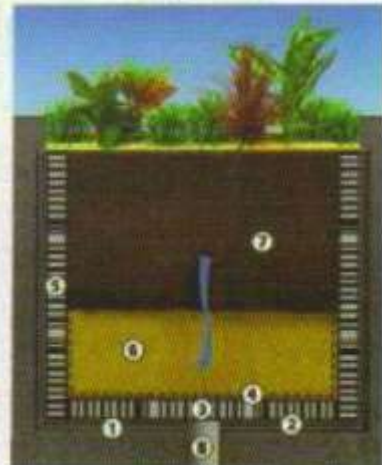
Roof Garden



Paving



Planter Box



1-0-0
? Pr<lt...:lOf b:r.lnf
Pt•11WUUI
1-DL . tif!O

5 D'Nill.cd
R Cdlrlrlld W Nf, _ _ III"j
> rrt IT!"
IO 11 '-

drainage cell installation



Drainage cell installation in progress.



Construction of roof garden upon completion of drainage cell installation.

completed Ausdrain drainage cell projects:

- Dubai Mall, United Arab Emirates



Ausdrain has supplied drainage cells for rooftop gardens on the buildings in Middle East development. Pictures show the rooftop garden and pavements of Dubai Mall with the world's largest tower, Burj Khalifa in the background. Ausdrain supplied both megaprojects for a total of approximately 50,000 sqm of green developments.



Manufactured from 100%
environmentally friendly recycled
plastics

For more in-depth information
about EcoClean Ausdrain Systems and the products
the company provides, please contact :



EcoClean Technology Sdn Bhd

12A-18, Wisma Zelan,
Jalan Tasik Permaisuri 2,
Bandar Tun Razak,
56000 Kuala Lumpur,
Malaysia

Tel: +60(3) 9171.8160
Fax: +60(3) 9171.9160

Email:

yalewong@ecoclean.com.my
jennysoong@ecoclean.com.my
sales@ecoclean.com.my