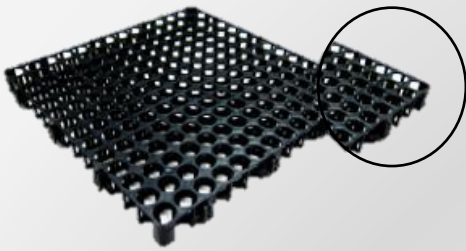




GCD Cellrain is a modular drainage system designed to provide a permanent, structural and non-clogging void between the concrete slab and any soil layer that will not collapse or distort. The void or air pockets enables the continuous flow of water to designated drain outlets, resulting in superior drainage efficiency compared to conventional heavy weight gravel systems. It features high compressive strength to withstand heavy loads and is a low weight system reducing more than 90% of weight compared to gravel. There is also a 5:1 reduction in the drainage medium height enabling higher planting efficiency.

GCD Cellrain can be merged or interconnected to form large panels or long modules that can be positioned vertically or horizontally. It is easy to install and environmentally friendly.

GCD CELLDRAIN



TECHNICAL SPECIFICATION

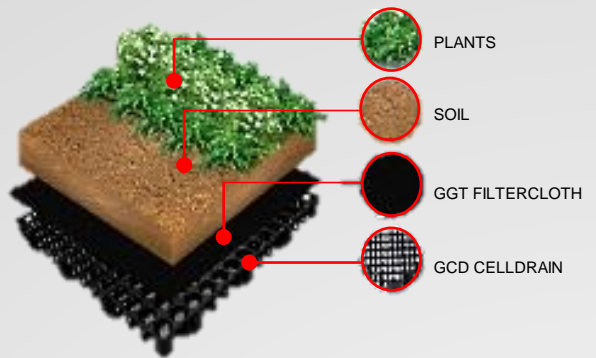
Materials	Heavy Duty Polypropylene
Drainage Cell Height	30mm
Size	330mm x 330mm
Weight	2.2 kg / m ²
Color	Black
Compressive strength	1000 KN / m ²
Longitudinal Flow Capacity (cm³/s/cm)	30
Quantity / Square meter	9
Discharge capacity (l/m.s)	16.5
Surface Void Area (%)	70
Internal Void Area (%)	95

ADVANTAGES

- Heavy Duty
- Water Flow management
- Lightweight
- Sustainable
- Quick Installation
- Affordable
- Low Maintenance
- Extend the life of water proofing layer up to 2x (as green roof/greenroof)

USAGE

- Extensive green roof
- Semi-Intensive Hybrid green roof
- Intensive Green roof
- Roof of buildings
- Golf Courses / Sports Field
- Landscaped decks & Planter boxes



APPLICATION

1. Prepare the site for drainage cell installation
2. Place the GCD Cellrain over the surface of the site. Cut the Cellrain where is it required using a hand or circular saw. You can install the Cellrain vertically to the walls of the planter boxes for a better water flow.
3. Place the filter cloth over the Cellrain allowing 150mm overlap at each seam. Allow for additional filtercloth to cushion the edges of the Cellrain around the perimeter of the waterproof membrane or walls.
4. Cover the area with good substrate. We do not recommend pure soil since this will compact overtime. Choosing the right substrate will lead to a more successful garden.
5. Plant your turf or trees into the green roof.



**FILTERING SOLUTION /
GEOSYNTHETIC SOLUTION**

GGT Filtercloth is a great way to limit the number of weeds growing in your garden. Also known as a "weed barrier" or "weed control fabric", landscape geotextile fabric prevents weed seeds from germinating and growing. GGT Filtercloth is recommended for commercial landscape and the most affordable for landscapers.

Its excellent filtration and drainage makes it ideal for pond underlayment, erosion control, separation fabric, and drainage fabric.



TECHNICAL SPECIFICATION

PROPERTY	VALUE
Unit weight variation %	-8
Thickness (mm)	1.3
Width Variation	-0.5
Breaking strength KN/m	4.5
Breaking elongation %	25-100
CBR mullen burst strength KN	0.6
Seive Size	0.007-0.2
Tear Strength KN	0.12

APPLICATIONS

- Asphalt Road Overlay
- Drainage, Trench Drains
- Filter Fabric, Weed Barrier
- Landscape Fabric
- Pipe Wrap, Rip-Rap
- Railroad Ballast Separation
- Separation under pavers
- Subsurface Drainage



FILTRATION
Restrains soil or other particles subjected to hydrodynamic forces while allowing the passage of fluids into or across the GGT Filtercloth



STABILIZATION
Improves the load bearing capacity of a soil structure.



SOIL EROSION
Prevents or controls wind or water erosion in agriculture, land development and construction.



PROTECTION
Prevents or limits local perforation and abrasion damage to a given element or material by the use of GGT Filtercloth



SEPARATION
Partitions two adjacent materials (usually dissimilar soils and/or fill materials) to prevent mixing of the two materials.



DRAINAGE
Collects and transports precipitation, ground water and/or other fluids in the plane of the GGT Filtercloth