VersiWeb[®] Cellular Confinement System





We make the difference.
The Elmich Difference.



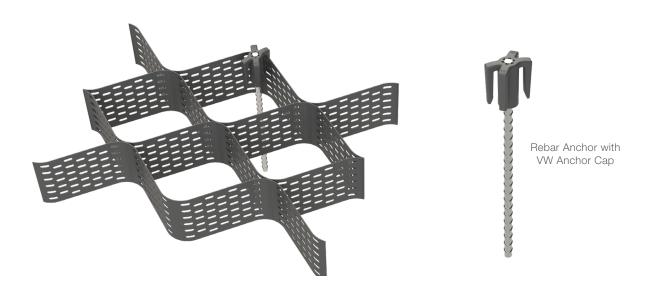
VersiWeb®

VersiWeb® consists three confinement cells of thicknesses ranging from 100 mm to 200 mm for various surface infill depths. With complementing accessories, VersiWeb® offers Developers and Architects a long-term measure for erosion control and slope stabilisation.

About VersiWeb®

VersiWeb® is a cellular confinement system comprising strips of perforated, expandable and flexible thermoplastic that are ultrasonically bonded to form a honeycombed matrix network of cells. VersiWeb® provides an economical and effective measure for erosion control and slope stabilisation by preventing movement of infill material within the individual cells and provides stability by acting as a counterweight on sloped areas. The structural and shear strength is enhanced when installed in layers.

VersiWeb® is secured onto the slopes at intervaled anchor points according to the directions of geotechnical engineers. These anchor points use conventional steel J-pins or rebars with VW Anchor Caps for a more efficient installation, both to be of adequate strength designations.



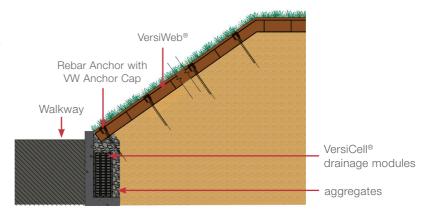




Typical Installation Details

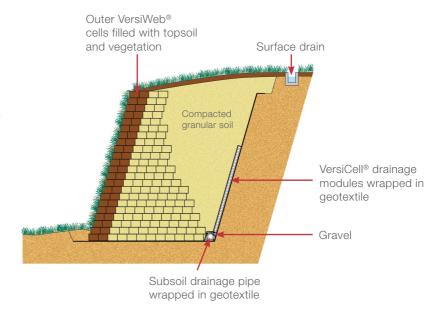
Erosion Control

VersiWeb® is anchored onto slopes using steel rebars with VW Anchor Caps. This system provides slope stabilisation by mitigating topsoil erosion through resisting sliding forces, complementing the overall erosion control efforts on slopes or channels.



Earth Retention

VersiWeb® can be installed in layers to form an integrated structural mass to resist lateral pressure and movement. It can be used to create embankments, barriers, gravity retaining walls and free-standing walls.







Technical Specifications

Material HDPE

Cell size 244 x 203 mm

Panel size 6,100 x 2,440 mm

Panel thickness 100 mm 150 mm 200 mm Weight per panel 24.7 kg 37.0 kg 49.3 kg

Seam weld strength

1400 N 1820 N 2210 N

Tensile strength 18.5 MPa (longitudinal) 19.5 MPa (transverse)

Long term seam hang strength*

>30 days

Environmental stress crack resistance

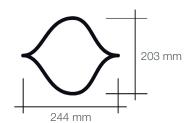
>3,000 hours

Service temperature -20°C to 120°C

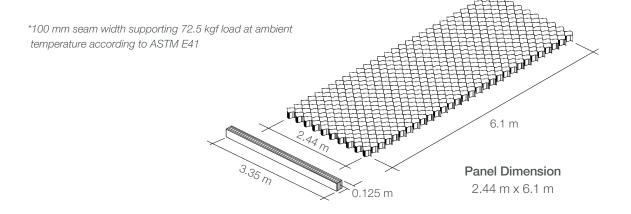
Biological/ Chemical resistance

Unaffected by moulds and algae.

Good resistance to alkali and bitumen



Cell Dimension



Advantages

- Cost-effective long-lasting slope/channel stabilisation and protection
- Conforms to most terrain profiles
- Easily transported and handled on-site
- Quickly dismantled for re-use

Application

- Slope protection
- Embankments
- Inclined green roofs and walls













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