



**Creating Cities
Where Urban Meets Nature**

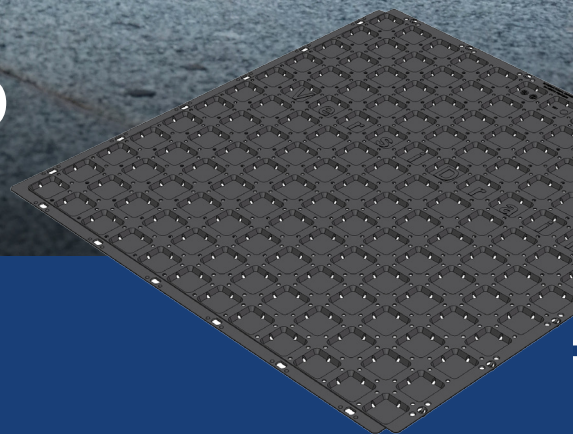


VersiDrain® 6P

Under Screed Drainage Mat

Our Innovation Is Your Solution

VersiDrain® 6P positioned between the structural slab and cement and sand screed prevents efflorescence and algae growth on tiles and pavers.



VersiDrain® 6P

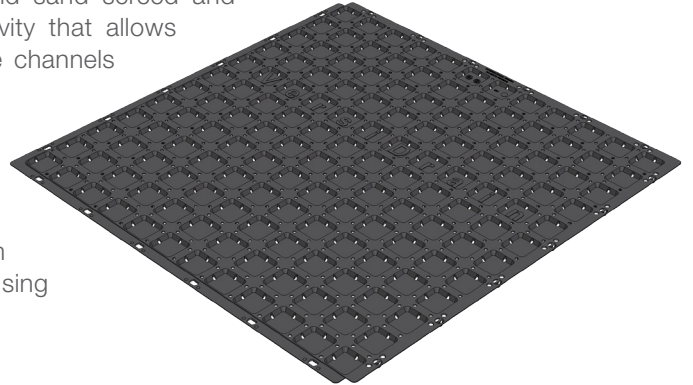
VersiDrain® 6P provides architects and developers with the definitive solution to minimising unsightly efflorescence on concrete and tiled surfaces.

About VersiDrain® 6P

VersiDrain® 6P is a lightweight drainage sheet that is positioned between the structural slab and topping screed for laying tiles.

It acts as a separation layer between the cement and sand screed and the floor slab, creating a drainage and ventilation cavity that allows entrapped water in the screed to escape via drainage channels and perforations in the sheet and be drained away.

Water and dissolved salts in the screed are thus prevented from accumulating beneath the tiles and contributing to pressure build-up and eventual surface cracks. Dissolved salts are also prevented from migrating to the surface via capillary action, thus minimising efflorescence.



Advantages

- Efficient drainage under screeds
- Minimises efflorescence & algae
- Reduces surface cracking & frost expansion
- Protects waterproofing membranes

Applications

- Balconies & terraces
- Swimming pool decks
- Shower areas
- Podium decks
- Patios
- Changing & wash rooms

Preventing Efflorescence

Efflorescence, the white powdery substance that appear on the surface of concrete and tiles, is a common occurrence that is an eyesore and seriously affects aesthetic appearance.

Efflorescence is caused by a combination of circumstances: soluble salts in the structural slab and screed, moisture dissolving the salts, and capillary action or hydrostatic pressure moving the salt-water solution towards the surface where the water evaporates leaving the unsightly salt deposit behind.

Over time, excessive efflorescence may also cause expansion and pressure build-up in the screed resulting in surface cracks.

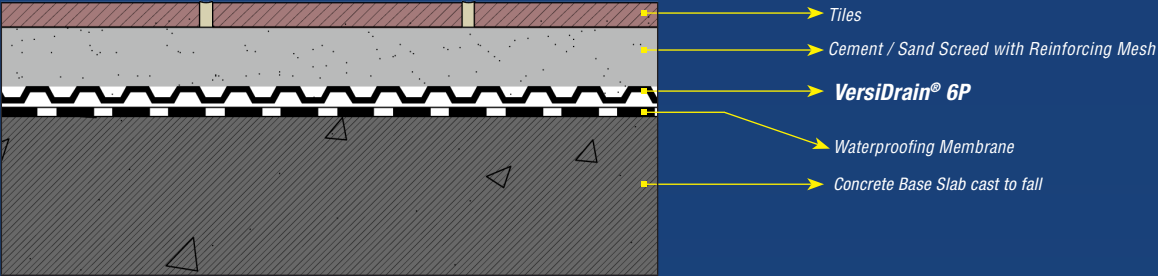
Efflorescence may be removed by pressure jet washing, scrubbing or by use of special cleaning products and acids. However, despite the incurrence of a great deal of time and money, these efforts cannot prevent efflorescence from re-occurring.

The long-term and cost-effective solution lies with breaking the chain of circumstances necessary for efflorescence to occur.



Unsightly efflorescence

VersiDrain® 6P Deck Detail



Protecting Waterproofing Membranes

When laid on waterproofing membranes, **VersiDrain® 6P** also provides protection against possible damage caused by labour and equipment during construction.

Projects



Khoo Teck Puat Hospital, Singapore



Marina Bay Sands Promenade, Singapore



United World College of South East Asia, Singapore

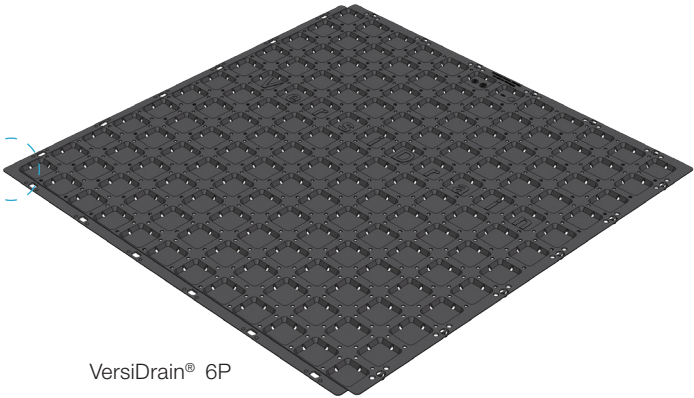
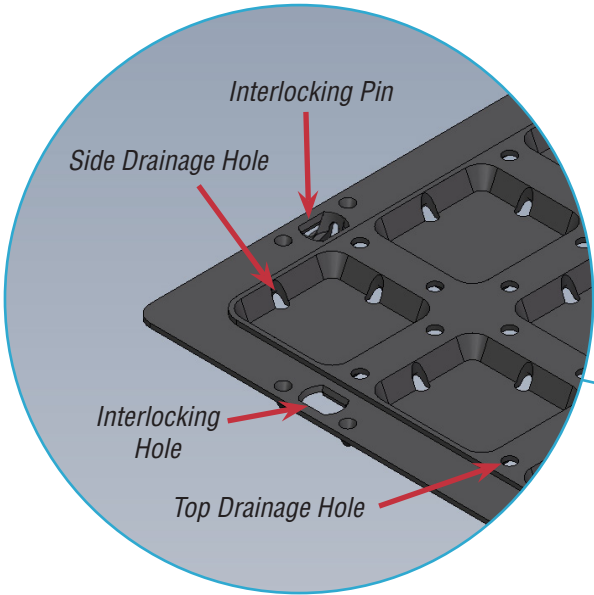
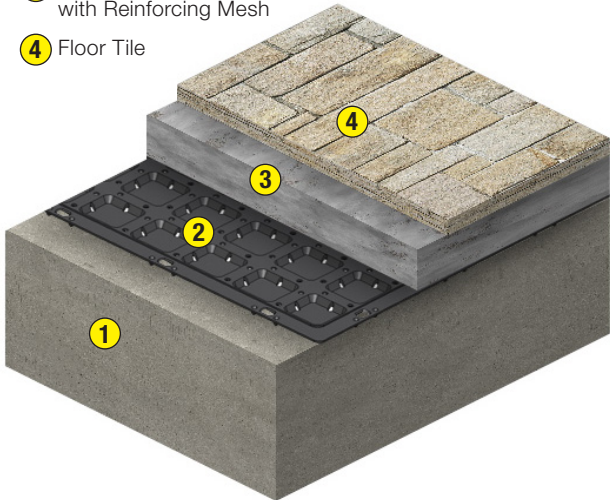


NTU School of Biological Science, Singapore

Technical Specification

Material	Polypropylene
Sheet Thickness	1.2mm
Overall Height	6mm
Weight	~3 kg/m ²
Compressive Strength (unfilled)	> 80 tonne/m ²
Compressive Strength (sand filled)	> 1500 tonne/m ² (with Grade 20 cement and sand screed)
Service Temperature	-30 °C to 80 °C
Biological Resistance	Unaffected by moulds and algae
Chemical Resistance	Resistant to rot, oils, acids, alkalis, bitumen and naturally occurring soil chemicals
Fire Resistance	B2 (DIN 4102)

- 1 Floor Slab
- 2 VersiDrain® 6P
- 3 Cement/Sand Screed with Reinforcing Mesh
- 4 Floor Tile



VersiDrain® 6P

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