VS CP Retainer v2

Concealed Paver Wind Uplift Protection





We make the difference. The Elmich Difference.



VS CP Retainer v2

VS CP Retainer v2 consists of support panels that are locked into retainer bases and pedestals. It is engineered to provide increased resistance against wind uplift forces to pavers installed on exposed balconies and terraces in high-rise buildings.

About VS CP Retainer v2

VS CP Retainer v2 system increases the uplift resistance of pavers mounted on VersiJack[®] pedestal supports in exposed installations, such as balconies and roof terraces.

During a strong wind event, significant resultant uplift pressures may occur from the formation of conical vortices above the roof pavers. The system counteracts this by spreading the uplift pressures across several pavers through adhering the pavers to the support panel and interlocking them to increase the apparent weight of the pavers.

A suitable adhesive formulated for low surface energy materials would be used to bond the paver to VersiScape[™] support panel.

1. Support Panel

The panel has a solid surface to prevent upward pressures in the raised floor cavity from lifting the pavers.

2. Diamond Retainer

Locking mechanism using M5 screws to secure adjacent VersiScape™ support panels together.

3. Retainer Base

The retainer base is secured to the pedestal top using countersunk self-tapping screws, and receives the diamond retainer to lock all the components together.

4. Pedestal

Compatible with VersiJack pedestals that extend from 13 mm to 1014 mm, which have a compressive strength greater than 10 kN at their maximum heights.



VS CP Retainer v2 Features

Wind Uplift Installation Edge Detail

Contingent on the edge detail, the metal trim that receives the glass balustrades or an L-bar bolted to the parapet wall could be used to hold the pavers along the border down.

Screw Retainer Base to VersiJack®

Provision for up to 8 countersunk screws are provided to allow fastening of retainer base onto the pedestal.

Maintenance and Removal of Intermediate Pavers

The locking mechanism slides to unlock when loosened to allow the removal of intermediate pavers for access and maintenance of hidden M&E services.

Anchor VersiJack® to Substrate (optional)

Either through adhesion or concrete screws, provisions are provided to affix the pedestal to the substrate.







Technical Specifications

VS CP Retainer v2

Material

- Support Panel	PP
- Retainer Base	Engineered plastic
- Diamond Retainer	Reinforced thermoplastic
- Fastening Screw	SUS 304
Dimension	
- Support Panel	600 (L) x 600 (B) x 32 (H) mm
- Retainer Base	158 (Ø) x 6 (H) mm with an 8 mm thick diamond retainer and a M5 x 40 fastening screw
Wind uplift resistance	>5.4 kPa

Adhesive

Density	1.44 g/cm ³
Shore A hardness	42
Elongation at break	650%
Tensile strength	3.30 N/mm ²
Tensile shear strength	2.10 N/mm ²
Tear strength	20 N/mm ²

Advantages



- Rapid drainage
- Thermal insulation
- Acoustic insulation
- Break-through protection
- Creates usable space
- Ease of maintenance
- Recyclable components
- Conceals M&E services



The Elmich security hologram ensures authenticity of the products.



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