

SAFEPAVE® STRUCTURAL SUPPORT (SSS)

Safer Raised Floors

Making pedestal paving stronger, safer and more reliable.

Engineered High-Performance Backing System for Raised Floor Applications

SafePave® Structural Support - Elite (SSS-E) is a fully engineered structural backing system designed for high-performance pedestal applications.

It combines lightweight structural support, wind uplift performance and system stability into a single integrated solution.

PROBLEMS ALLEVIATED BY SSS-E

- Wind Uplift – *integrated clip system*
- Tile Breakthrough – Not possible without pedestal failure
- Injury – Breakthrough prevented, Fragments contained
- Impact breakages – Impact resistance increased by ???%
- Emergency vehicle access. – Load capacity increased so vehicles can drive on broken tiles
- Corner Loading – Load distributed to full panel
- Weight – Thinner tiles can be used
- Vibration – Anti-Vibration layer
- Heat – 16mm PET Foam Core provides
- Noise

DESIGNED FOR CRITICAL APPLICATIONS

- High-rise balconies
- Rooftop podiums
- Commercial high-traffic areas
- Wind-exposed environments

HOW SSS-ELITE WORKS

Fully bonded composite system

SSS-Elite works with the tile and integrates:

- A lightweight, (1.25kg) Structural composite core



- Reinforced bonding layer with energy absorption layer
- Wind uplift performance capability
- Vibration and acoustic control

*Creates a **complete system solution**, not just a backing layer*

KEY ADVANTAGES

- Maximum structural performance
 - Integrated wind uplift capability
 - Enables use of thinner tiles
 - Reduces tile movement and vibration
 - Improves load distribution
 - Acoustic and Thermal Insulation
 - Enhances long-term system reliability
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Why **SAFEPAVE®** Structural Support - Elite is Different

Traditional Systems

- Multiple components
- Mechanical restraint
- Limited performance control
- Complex installation

SSS-Elite

- Integrated system
 - **Bonded** structural solution
 - Engineered system behaviour
 - Simplified system approach
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ENGINEERED FOR COMPLIANCE

SSS-Elite is designed to support:

- Structural performance requirements
- Wind uplift resistance
- Impact and breakthrough mitigation

Its bonded composite design provides a predictable, repeatable structural response, supporting specification in high-risk applications.

Test data and performance results available upon request

SYSTEM PERFORMANCE BENEFITS

- ✓ Structural + safety + uplift in one system
- ✓ Reduced design complexity
- ✓ Improved specification confidence
- ✓ Predictable performance in critical applications

Technical Overview

System Construction

- 0.8mm GFRP structural sheet
- 16mm High density PET Structural Foam
- 0.8mm GFRP structural sheet
- 1.5mm microcellular IXPE layer – stress absorption & damping
- 200gsm fibreglass reinforcement – tensile strength & crack control
- High-performance acrylic bonding system – full surface adhesion
- Tile

Creates a bonded composite structural panel that includes the tile

SAFEPAVE SYSTEM FAMILY

SPRT – Reinforcement Tape 300

Retrofit safety layer for existing tiles

SSS – Structural Support GFRP

Bonded GFRP composite backing for structural improvement

SSS-E – Structural Support Elite

Engineered system with wind uplift and advanced performance



THE COMPLETE SOLUTION FOR HIGH-RISK PEDESTAL SYSTEMS

SafePave® provides architects and specifiers with a practical, engineered solution to one of the most common failure risks in pedestal-supported paving systems.

Designed for predictable performance in critical applications



SafePave®

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