

SAFEPAVE® STRUCTURAL SUPPORT (SSS)

Safer Raised Floors

Making pedestal paving stronger, safer and more reliable.

Engineered Structural Backing for Raised Floor Applications

SafePave® Structural Support (SSS) is a bonded composite backing system developed specifically for natural stone and structural porcelain tiles used on pedestal systems.

Unlike loose-laid trays or membranes, SSS is fully bonded to the tile, enabling both elements to act together as a single structural unit.

The Problem in Raised Floor Design

Pedestal tile systems introduce structural risks:

- Concentrated corner loading
- Tensile stress in brittle materials
- Impact vulnerability
- Sudden, uncontrolled failure



Traditional solutions increase weight, cost, and complexity—without solving the root issue.

How SafePave® SSS Works

The key to SafePave® is simple:

It bonds to the tile.

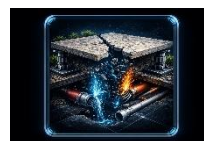
This allows the tile and SSS to act as a composite structural system, rather than separate components.

- Loads are distributed across the panel
- Tensile stresses are reduced and controlled
- Cracks are contained and stabilised
- Impact energy is absorbed and dissipated

Result: Improved strength, stability, and breakthrough resistance

Structural Advantages

- Increased bending stiffness
- Reduced tile deflection
- Improved impact resistance
- Crack containment and control
- Load distribution across pedestals
- Reduced risk of breakthrough failure
- Improved vibration and acoustic performance



Ideal for projects where tile failure presents a safety risk

WHY SAFEPAVE IS DIFFERENT

Traditional Systems

- Sit beneath the tile
- Act independently
- Limited structural benefit
- Multiple components

SafePave® SSS

- **Bonded to the tile**
 - **Work as one system**
 - **True structural enhancement**
 - **Integrated solution**
-

Engineered for Compliance

SafePave® SSS is designed to support compliance with performance-based requirements for raised floor systems, including:

- Structural performance under load
- Impact resistance
- Breakthrough risk 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.”

Installation Simplicity

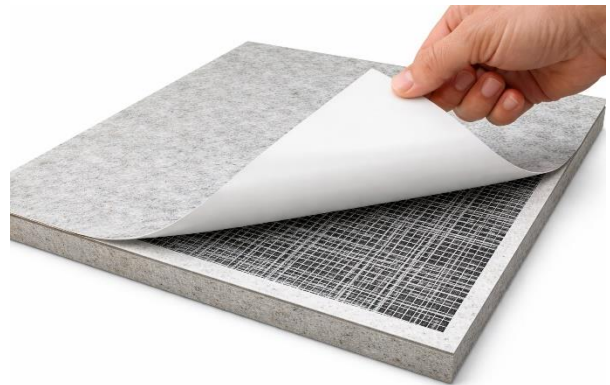
SafePave® SSS is supplied as a factory-prepared structural panel.

Installation process: - Peel and stick

1. Clean tile **ensuring it is dust free**
2. Remove protective release liner
3. Align SSS to underside of tile
4. Apply uniform pressure to achieve full bond
5. Install tile onto pedestal system

No mechanical fixings.
No additional adhesives required.
No change to pedestal layout.

The bonded tile and SSS act as a single structural unit.



Technical Overview

System Construction

- 2mm GFRP structural sheet – load distribution & stiffness
- 1.5mm microcellular IXPE layer – stress absorption & damping
- 200gsm fibreglass reinforcement – tensile strength & crack control

- High-performance acrylic bonding system – full surface adhesion

Creates a bonded composite structural panel bonded directly to the tile

Panel Formats:

- 590 × 590 mm
- 790 × 390 mm
- Custom sizes available

Environmental Stability:

- Stable under typical raised floor operating temperatures
- Compatible with wet-exposed environments
- Designed for long-term performance in outdoor installations

SAFEPAVE SYSTEM FAMILY

SPRT – Reinforcement Tape 300

Retrofit safety layer for existing tiles

SSS – Structural Support

Bonded GFRP composite backing for structural improvement

SSS-E – Structural Support Elite

Engineered system with wind uplift and advanced performance



DESIGNED FOR MODERN RAISED FLOOR SYSTEMS

SafePave® SSS 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®

Safer Raised Floors

Making pedestal paving stronger, safer and more reliable.

