SkyFrame™

TECHNICAL DATA SHEET · RAISED TERRACE SYSTEM

SkyFrame Modular Subframe System



SKYFRAME INSTALLED WITH PORCELAIN PAVING

SkyFrame is a modular galvanised steel subframe engineered for roof terraces, podiums and inset balconies – delivering structural precision and design flexibility without penetrating the roof membrane.

MATERIAL	FIRE RATING	SUBFRAME WEIGHT	WARRANTY
Galvanised steel	$B_{ROOF}(t4)$	12–18 kg/m²	25 years*

01 PRODUCT OVERVIEW

Structurally strong
Supports pergolas and outdoor structures without penetrating or compromising the waterproofing layer

Fast installation
Modular, pre-manufactured components

Off-site manufacture
Accuracy, speed and minimal site disruption

Customisable
Adaptable to any project layout or architectural vision

Design freedom
Full design freedom for specifiers and contractors

Non-corrosive
Long-term durability and low maintenance

Eco-friendly
Recyclable components and efficient resource use

Wind uplift
Integrated wind-uplift solution for exposed rooftop environments

Water harvesting
Optional system for sustainable drainage and reuse

25-year warranty*
Valid with use of the complete SkyFrame System

02 SPECIFICATION

Technical Specification

STRUCTURAL LOAD	◆ Supports typical roof terrace live loads (per structural engineer requirements) ◆ Residential: 2.0–2.5 kN/m² ◆ Communal / commercial: 4.0 kN/m² ◆ Load distributed through modular galvanised steel frame to adjustable supports ◆ Suitable for porcelain paving, decking, furniture, planters
DEAD LOAD	◆ SkyFrame subframe: 12–18 kg/m² ◆ Porcelain paving: 40–50 kg/m² ◆ Typical total system weight: 55–70 kg/m²
TYPICAL BUILD HEIGHTS	◆ Minimum build-up: 60–80 mm ◆ Typical terrace build-up: 100–200 mm ◆ Maximum build-up: 300+ mm (support-dependent) ◆ Enables levelling over roof falls and drainage gradients
FRAME SPANNING & GRID	◆ Typical grid spacing: up to 1800 mm centres ◆ Designed for 20 mm porcelain or other finishes ◆ Optimised to prevent deflection and maintain surface stability
DRAINAGE PERFORMANCE	◆ Free-flow drainage beneath raised surface ◆ Surface joints allow natural runoff to roof outlets ◆ Maintains original roof drainage strategy ◆ Reduces standing water and ponding
WATERPROOFING PROTECTION	◆ Zero penetration of roof membrane ◆ Frame sits on protective pads or adjustable supports ◆ Load spread across multiple contact points ◆ Minimises risk to waterproofing systems
SERVICE VOID	◆ Creates continuous service zone: typically 50–100 mm ◆ Allows routing of lighting, irrigation, drainage, power ◆ Panels can be lifted for maintenance access
DURABILITY	◆ Galvanised steel construction ◆ Resistant to rot, warping, moisture degradation ◆ Typical design life: 25+ years (environment-dependent)
INSTALLATION EFFICIENCY	◆ Typical installation speed: 30–50 m²/day per team (project dependent) ◆ Faster than traditional patio construction

03 SYSTEM BUILD-UP

Typical System Build-Up

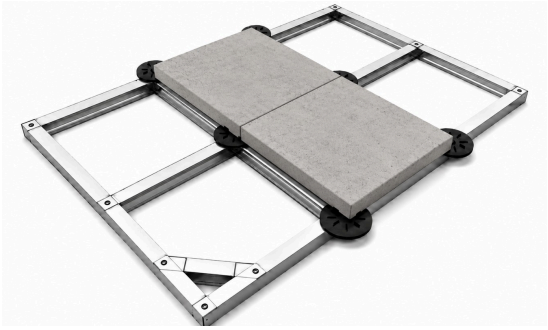


Section shown with 20 mm porcelain. Typical build heights, frame spanning and service void are listed in Technical Specification.

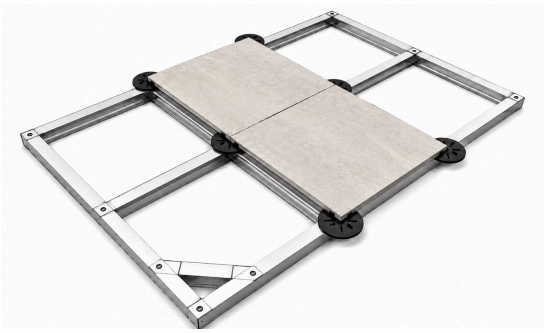
04 SURFACE OPTIONS



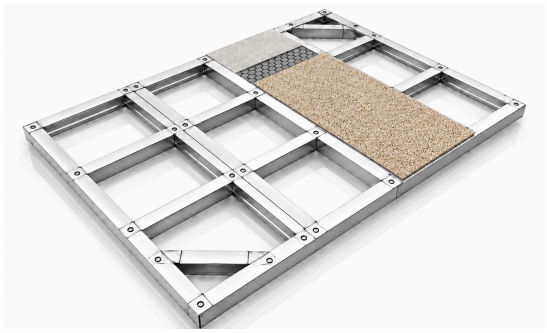
ARTIFICIAL GRASS



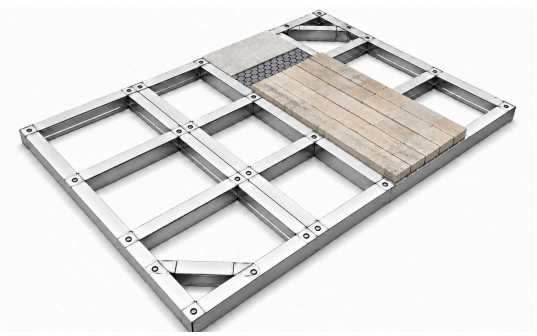
CONCRETE PAVING



PORCELAIN PAVING



RUBBER CRUMB



BLOCK PAVING

ONE FRAME

Mix surfaces on a single level

Finishes of different depths sit flush across one SkyFrame grid. See transitions overleaf.

05 TRANSITIONS

Flush Surface Transitions



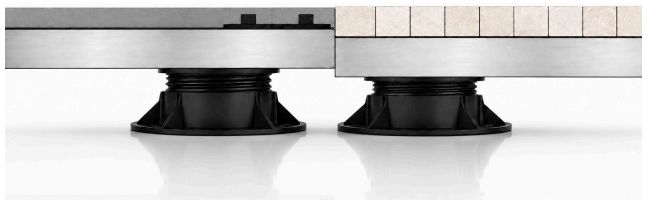
ARTIFICIAL GRASS → BLOCK PAVING



ARTIFICIAL GRASS → BONDED PEBBLE



RUBBER CRUMB → BONDED PEBBLE



CONCRETE PAVING → BLOCK PAVING

06 WIND UPLIFT

Combined with Wind Uplift Solution

TileTite is an industry-leading, patent-pending innovation that is fixing rooftops in the UK at speed. It is wind resistant and very user friendly, outstripping all other solutions on the market.

Wind uplift protection
Provides a strong bond to prevent tiles from being lifted by strong winds.

High adhesion
Strong adhesive properties designed for outdoor tiles and pedestals.

Quick setting
Fast-drying, reducing installation time and minimising exposure to the elements.

Weather-resistant
Formulated to withstand extreme weather conditions, including rain, snow and UV exposure.

Flexible application
Suitable for various tile materials including porcelain, ceramic and stone.

Waterproofing compatibility
Can be used with waterproof membranes to prevent water ingress beneath tiles.

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