SkyFrame™

TECHNICAL DATA SHEET · SYSTEM BUILD-UP

SkyFrame + BaseBoard + Resin

A seamless, permeable SureSet resin-bound finish on the SkyFrame galvanised steel frame. BaseBoards drop between the frame members to form a rigid, continuous deck, with a stabilisation mesh bonded to the primed surface beneath the resin. Colours and aggregates are shown on the SkyFrame Resin Options data sheet.

SURFACE	BASEBOARD	SLIP (PENDULUM)	IMPOSED LOAD
Resin bound	1.6 mm	> 40	4.0 kN/m²
Permeable · UV stable	Galvanised steel	Initial, aggregate dependent	Communal / commercial

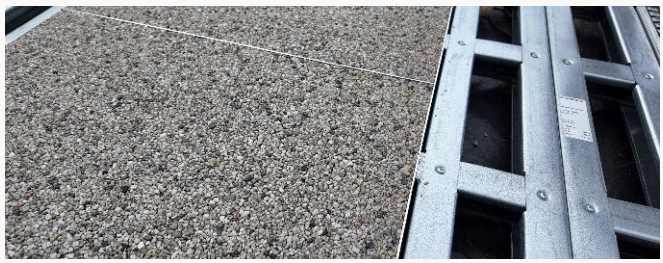
01 BUILD-UP

SureSet resin	24 MM DEPTH 6 MM AGGREGATE	Stabilisation mesh	GLASS-FIBRE GRID BONDED TO BOARD
BaseBoard	1.6 MM GALVANISED 350 × 1200 MM TYP.	Edge trim	ALUMINIUM PROFILE MASTIC BONDED
SkyFrame frame	50 / 75 / 100 MM GALVANISED STEEL	Pedestal	12–1016 MM ON BASEPAD

02 SYSTEM VIEWS



BASEBOARD, MESH & RESIN LAYERS



FINISHED RESIN ON SKYFRAME

03 SPECIFICATION

System Specification

Surface	SureSet resin-bound aggregate with UV-stable resin, BBA Agrément Certificate 20/5719. Colours and aggregates: see SkyFrame Resin Options data sheet
Resin depth	24 mm of 6 mm aggregate, to SureSet's podium roof deck specification (BBA minimum for 6 mm aggregate: 18 mm)
BaseBoard	1.6 mm galvanised steel, typically 350 × 1200 mm; primed to key the stabilisation mesh
BaseBoard profile	Long edges bent to a downward-facing 20 mm lip that sits between two SkyFrame members; laser-cut slots at set positions span over the cross members
Stabilisation mesh	Glass-fibre strands in a grid, impregnated with polymer adhesive, bonded to the primed BaseBoard to reinforce the resin and control movement
Edge trim	Aluminium edging profile bonded with adhesive mastic, with 50 mm gaps every 300 mm so water can drain sideways through the resin
Drainage	Permeable surface (BS EN 12697-19, 6 mm aggregate 3.56×10^{-3} m/s vertical); water drains through the resin to the BaseBoard, then away through the gaps between boards and the laser-cut slots
Imposed load	Designed for 2.0–2.5 kN/m² (residential) and 4.0 kN/m² (communal / commercial); no penetration of the roof membrane
Frame & supports	Galvanised steel, 50 / 75 / 100 mm sections, on pedestals (12–1016 mm) and BasePads
Durability	Frame design life 25+ years; 25-year SkyFrame system warranty. Resin: UV stable, 21-year guarantee when supplied and laid by SureSet

04 PERFORMANCE

Performance & Compliance

FEATURE	STANDARD	REQUIREMENT	SKYFRAME
Reaction to fire (frame, BaseBoard)	BS EN 13501-1	–	◆ Euroclass A1
Slip resistance (initial)	Pendulum, TRL 176	–	◆ > 40, aggregate dependent
Permeability (6 mm aggregate)	BS EN 12697-19	–	◆ 3.56×10^{-3} m/s vertical
Wind uplift	–	Project-specific	◆ Project-specific

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