SkyFrame™

TECHNICAL DATA SHEET · SYSTEM BUILD-UP

SkyFrame + GreenCore Grass

Fire rated, wind uplift tested GreenCore artificial grass, bonded to the SkyFrame porcelain build-up. Water drains through the grass to the 4 mm tile joints and away through the 6 mm AlignPad void.

WIND UPLIFT TESTED	ROOF FIRE RATING	DRAINAGE	PILE HEIGHT
6 kPa	BROOF(t4)	>1,600 L	35 mm
EOTA TR 005 pass	Equivalent · spread of flame	Per hour per m²	±10% (ISO 8543)

01 BUILD-UP

GreenCore grass	35 MM PILE ADHESIVE BONDED	Porcelain base	600 × 600 × 20 MM 4 MM JOINTS
TileTite	BONDS TILE TO SPACER TAB	AlignPad	6 MM BASE · 4 MM MOULDED JOINT TAB
SkyFrame frame	50 / 75 / 100 MM GALVANISED STEEL	Pedestal	12–1016 MM ON BASEPAD

02 SYSTEM VIEWS



BUILD-UP SECTION



GREENCORE GRASS

03 SPECIFICATION

System Specification

Grass	GreenCore multi-tone fibres (4 shades of green), organic blade shape, soft-touch texture; bio-based backing
Grass fixing	Fully bonded to the porcelain with Polytan 8200 adhesive (3 mm notched trowel, 100% coverage)
Infill	Kiln-dried sand at 10 kg/m², brushed into the pile to keep the fibres upright
Grass weight	Grass approx. 2.2 kg/m², plus 10 kg/m² sand infill
Base	600 × 600 × 20 mm porcelain bonded with TileTite to AlignPads (6 mm base, 4 mm moulded joint tab)
Drainage	>1,600 L/h/m² through the grass; the 4 mm AlignPad tab gives wider tile joints for water to enter, then away through the 6 mm void
Imposed load	Designed for 2.0–2.5 kN/m² (residential) and 4.0 kN/m² (communal / commercial), to the project structural engineer's requirements
Frame & supports	Galvanised steel, 50 / 75 / 100 mm sections, on pedestals (12–1016 mm) and BasePads
Membrane	No penetration of the waterproof membrane; load spread across multiple contact points
Durability	UV-stabilised, suitable for all climates, long-term outdoor performance; low maintenance; REACH compliant, EN 71-3 (toy-safe)
Warranty	Grass: 15 years (manufacturer terms) · SkyFrame system: 25 years

04 PERFORMANCE

Performance & Compliance

FEATURE	STANDARD	REQUIREMENT	SKYFRAME
External roof fire performance	ASTM E108	Fire test for roof coverings	◆ Tested
Roof fire classification	BS EN 13501-5	Per Approved Document B	◆ BROOF(t4) equivalent
Reaction to fire (frame & porcelain base)	BS EN 13501-1	–	◆ Euroclass A1
Wind uplift (GreenCore on SkyFrame)	EOTA TR 005:2003, Lucideon	Project-specific	◆ Pass – no deterioration at 6 kPa; 0.12 mm max. deflection
Pile height	ISO 8543	–	◆ 35 mm ±10%
Drainage	–	–	◆ >1,600 L/h/m²

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