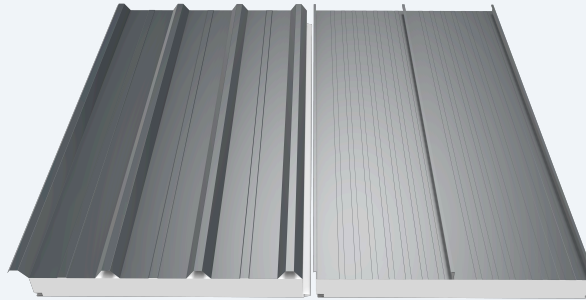


LiteSpan® Roof Panels

Insulated composite roofing — 990 IBR & 990 Standing Seam **SANS 54509 TYPE-TESTED**



One panel that is **roof, insulation and finished ceiling in a single element**: factory-laminated Chromadek® steel skins bonded to a rigid **FRCel® fire-retarded EPS** core. Air-tight and weatherproof (Class A / 1200 Pa to SANS 54509), fast to install, and finished on the underside — the strongest fire-tested EPS panel made in South Africa.

R 4.4

M²K/W @150MM

U 0.252

W/M²K @125MM

B-s1,d0

REACTION TO FIRE

990 mm

COVER WIDTH

6 m

PANEL LENGTH

Two roof profiles

	990 IBR	990 Standing Seam (SS)
Top profile	Wide IBR, 40 mm profile	2 × 495 mm seam + pleats
Fixing	Stitching screws, exposed	Hidden clips, seamed on site
Steel skin	0.3–0.58 mm Chromadek	0.3–0.5 mm Chromadek
Underside	Flat / micro-pleated ceiling	Flat / micro-pleated, tongue & groove
Core depths	75 / 100 / 125 / 150 mm (50 mm & custom on request) · FRCel® EPS standard, StoneWool option	

Applications

- Warehouses, factories, agricultural & poultry buildings, halls and residential roofs
- Anywhere needing weatherproof roof + insulation + finished ceiling in one pass
- Pitched, mono-pitch, raked or curved (tunnel) roofs via Technopol's panelised-building workflow

Spanning & thermal performance

Core depth	Max free span @ 1.6 kN/m ²	R-value (installed)
75 mm	2.5 m	2.3 m ² K/W
100 mm	3.0 m	3.0 m ² K/W
125 mm	3.5 m	3.7 m ² K/W
150 mm	4.0 m	4.4 m ² K/W

Free spans indicative for single-span, uniformly loaded panels; confirm against project loads. Multi-span and wind-uplift cases available on request.

Key specifications

Cover width	990 mm
Core material	FRCel® FR-EPS (StoneWool option)
Core λ	0.03524 W/m·K
U (125 mm)	0.252 W/m ² K
Panel mass (125 mm)	12.5 kg/m ²
Water-tightness	Class A / 1200 Pa (SANS 54509)
Colours	6 standard top; white underside

Fire & certification

- **FRCel® EPS core: B-s1,d0** reaction-to-fire to SANS 53501-1 — the only SANS-53501-1-classified insulated EPS panel on SA's national register
- **SANS 54509 / EN 14509** Initial Type Test (independent structural & thermal certification — rare locally)
- **StoneWool core option:** Euroclass A1 non-combustible; fire-resistance-rated firewall systems available (test reports on file)

Note: reaction-to-fire (B-s1,d0) describes how a material contributes to a fire; fire-resistance ratings (minutes) are a separate, system-level measure. Ask us for the certificate applicable to your project.

Why LiteSpan®

- Single-pass install: roof, insulation and ceiling together — faster and lighter than a built-up roof
- Independently type-tested to SANS 54509 — verifiable structural, thermal & water-tightness data
- Best fire pedigree of any locally-made insulated EPS panel
- Made in South Africa by an EPS manufacturer with 30+ years' experience and an Agrément-certified building system