

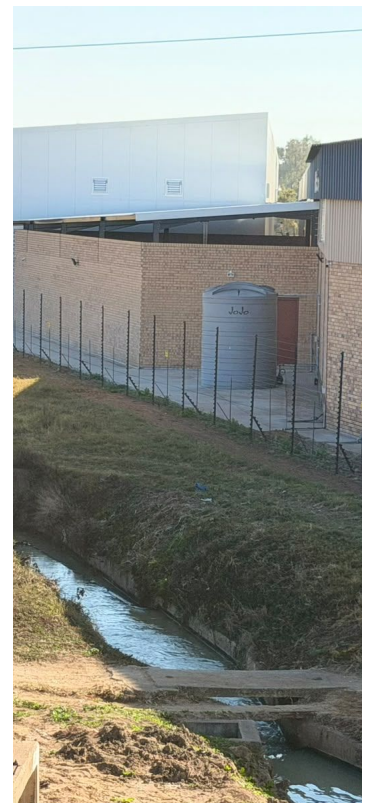
LiteSpan Ceiling & Wall Panels

PRODUCT DESCRIPTION

LiteSpan Ceiling & Wall Panels are factory-laminated composite boards: two coated-steel (Chromadek or similar) skins bonded with two-part polyurethane adhesive to an insulating core, joined with a double tongue-and-groove interlock. They give insulation, an air-tight line and a washable finished face in one element — no separate lining, no brandering, no skim. Two cores are offered: Technopol's own FRCEl fire-retardant EPS, and resin-bonded Stone Wool with a Euroclass A1 non-combustible core — the reaction-to-fire class that makes the Stone Wool panel the one to specify for cold, chilled, food and clean-room work.

LITESPAN CEILING & WALL PANELS PROPERTIES

PROPERTY	VALUE
Build-up	Coated-steel skin / PU adhesive / insulating core / PU adhesive / coated-steel skin.
Core options	FRCEl fire-retardant EPS (standard) or resin-bonded Stone Wool (A1 non-combustible core)
EPS board sizes	Core 50 / 75 / 100 / 125 / 150 mm. Cover width 480 or 1140 mm as a ceiling board, 1145 mm as a flat wall panel. Length up to 12 000 mm on request.
Steel face thickness	Supplied across the family at 0.3-0.58 mm.
Stone Wool wall panel	1145 mm cover; cores 50 / 75 / 100 mm; steel skins 0.5 mm minimum
Core thermal conductivity, lambda (FRCEl EPS)	0.03524 W/m.K, measured on a heat-flow meter
Installed R-value by EPS core depth	50 mm: 1.6 75 mm: 2.3 100 mm: 3.0 125 mm: 3.7 150 mm: 4.4 m2K/W
Panel U-value at 125 mm	0.252 W/m2.K



Summary only — 16 further properties are given in the LiteSpan Ceiling & Wall Panels datasheet.

APPLICATIONS AND SCOPE

APPLICATIONS

- Insulated, washable ceilings in food-processing, poultry, agricultural, industrial and commercial buildings
- Internal partitions and envelope walls where a hygienic, wipe-down or high-pressure-washable steel face is required
- Laboratories, GMP areas, clean rooms, hospitals and clinics — Stone Wool core where a non-combustible core is a project requirement
- Cold rooms, chillers, freezers and other temperature-controlled envelopes
- Indoor swimming pools and other high-humidity envelopes

WHERE NOT TO USE IT

- Not load-bearing. LiteSpan is a self-supporting envelope element that spans between frame members
- Not for use as a fire division, and not where the regulation calls for a fire-resistance period in minutes
- Not to be quoted as B-s1,d0 without its scope
- Not with downlighters or any recessed light fitting cut into an EPS-cored panel. Surface-mount every fitting. (FIRELAB FTC 18/284.)
- Not against flues, chimneys, boiler breechings, kilns, ovens or sustained hot ducts. All EPS is combustible