

Cold Room & Freezer Panels

LiteSpan laminated sandwich panels · insulated doors · chiller & freezer envelopes



Overview

Technopol's cold-room and freezer offering is a real, repeatedly-delivered product line built around the **LiteSpan laminated sandwich panel**: 1145 mm-cover wall and ceiling panels (990 mm IBR or standing-seam roof variants) with Chromadek / coated-galvanized steel skins bonded to an **FRCel fire-retarded EPS** (SD 15 / HD 20 kg/m³), **PIR**, or **StoneWool** 120 kg/m³ mineral-wool core, joined with tongue-and-groove joints and interlocking Crocodile Connector cover channels with stainless pop-rivets. Matching made-to-measure insulated Personal Panel Doors complete the envelope. Project files prove chiller (+4 °C) and freezer (-20 °C) rooms, insulated ceilings on perimeter-wall support, transportable cold-room modules on galvanized forklift-channel bases, and cold-store designs to the AAAMSA/TPMA envelope specification.

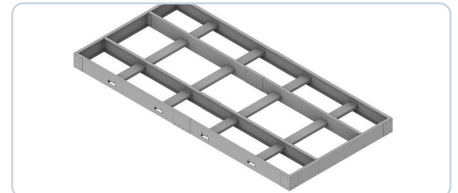
Applications



Insulated panel doors



Insulated ceilings & linings



Transportable module base frames

Also: chiller (+4 °C) & freezer (-20 °C) rooms · insulated ceilings on perimeter-wall support · cold-store envelopes to the AAAMSA/TPMA specification · StoneWool fire-rated overlaid.

Benefits

- Laminated steel-skin sandwich panel — 1145 mm cover walls & ceilings; 990 mm IBR / standing-seam roof variants
- Chiller (+4 °C) to freezer (-20 °C) — proven on Powernex and meat-plant projects
- Core to suit: FRCel fire-retarded EPS (SD 15 / HD 20 kg/m³), PIR, or StoneWool 120 kg/m³ mineral wool
- Tongue-and-groove joints with interlocking Crocodile Connector cover channels and stainless pop-rivets
- Made-to-measure insulated Personal Panel Doors complete the envelope
- Transportable cold-room modules on galvanized forklift-channel base frames

Specifications

Panel cover width	1145 mm wall & ceiling · 990 mm IBR / standing-seam roof
Core options	FRCel EPS (SD 15 / HD 20 kg/m ³) · PIR · StoneWool 120 kg/m ³
Steel skins	≥ 0.5 mm coated galvanized / Chromadek, both faces
Core thicknesses	50 / 75 / 100 / 125 / 150 mm
StoneWool panel R-value	1.43 / 2.14 / 2.86 m ² K/W at 50 / 75 / 100 mm core
StoneWool max wall height	3400 / 4600 / 5700 mm at 50 / 75 / 100 mm core
990 roof installed R-value	2.3 / 3.0 / 3.7 / 4.4 at 75 / 100 / 125 / 150 mm core
Joints	Tongue-and-groove + Crocodile Connector channels, stainless rivets
Insulated panel doors	Made-to-measure · 75 mm steel jamb · 24 kg/m ³ EPS leaf

Skin colours: Frost White · Dove Grey · Sandstone Beige · Anthracite Grey · Quartz Grey · Signal Brown.

Compliance & fire. The LiteSpan panel (Chromadek skins + FRCel EPS core) is classified **Class B-s1,d0** reaction-to-fire to **SANS 53501-1** (test IT 23-08-00009); the StoneWool core is **Euroclass A1** non-combustible as a material (EN 13501-1). These are **reaction-to-fire classes, not fire-resistance (minutes) ratings**. Earlier SANS 10177-2 fire-resistance tests have lapsed and are being revalidated; no FR-minutes rating is claimed here, and PIR-cored panels carry no fire-resistance rating. Cold-room panels are not an Agrément-certified line. Confirm current grades, spans and fire certificates with Technopol.

Specify a chiller, freezer or cold-store envelope with Technopol · info@technopol.co.za · +27 11 363 2780 · technopol.co.za