

# LiteClad® / NuClad® Insulated Metal Cladding

Metal-faced EPS cladding — insulation and a finished façade in a single lightweight layer



## Overview

LiteClad and NuClad are composite insulated-cladding systems that bond an Expanded Polystyrene (EPS) insulation core to a pre-painted steel outer profile, delivering thermal insulation and a finished architectural surface in one lightweight layer — an EIFS "in metal". Seven roll-formed profiles (Standing Seam narrow/wide, IBR Wide, DutchClad, ClipClad, Corrugated and NuClad) laminate a 0.5 mm Chromadek®-grade steel skin to a standard EPS or FRCel® fire-retardant EPS core, so insulation and finish go up in a single operation with no separate render coat. NuClad is also offered as a one- or two-sided ceiling board. Manufactured by Technopol SA in Springs, Gauteng — a South African EPS manufacturer since 1993.

## Applications

- Industrial façades and commercial wall cladding
- Cold-room walls and food-processing facilities
- Agricultural buildings, including poultry and piggery farming
- Retrofit and over-cladding insulation on existing walls
- Warehousing and factory buildings
- Roofing — for the roofing-rated profiles (Standing Seam, IBR Wide, ClipClad, Corrugated)
- NuClad one- or two-sided ceiling boards for retail, warehousing, housing, offices, schools and clinics

## Benefits

- Insulation and finish in a single layer — faster build, less labour, no separate insulation trade
- Metal weatherskin is the finish: durable, weatherproof and self-finishing, with no render coat required
- Consistent thermal performance across the whole cladding surface
- FRCel® fire-retardant EPS core available on every profile
- Concealed-fix or through-fixed options; most profiles run vertically or horizontally
- Lightweight — suits both new build and retrofit over-cladding

## Specifications

System type	Metal-faced composite insulated cladding (EIFS "in metal")
Core material	EPS — LiteCel® standard, or FRCel® fire-retardant on request
Core thermal conductivity (λ)	≤ 0.038 W/m·K (FRCel)
Core compressive strength	≥ 70 kPa
Core service temperature	-40 °C to +75 °C
Core density	15 kg/m <sup>3</sup> standard (12–30 kg/m <sup>3</sup> available)
Outer skin	0.5 mm PPGL / PPGI pre-painted steel (Chromadek® or equivalent), one or both sides
Cover widths	270 / 282 / 293 / 490 / 495 / 990 mm (by profile)
Installed R-value (FRCel core)	50 mm ≈ 1.62, 100 mm ≈ 2.95, 150 mm ≈ 4.40 m <sup>2</sup> ·K/W
Standard colours	8 pre-painted RAL options; custom panel lengths on request

**Fire & compliance:** An FRCel® fire-retardant EPS core is available on every profile; the FRCel core is classified reaction-to-fire Class B-s1,d0 to SANS 53501-1, and the related LiteSpan Panel 150 sandwich panel is separately classified B-s1,d0 — both reaction-to-fire classifications of the core/panel, not a fire-resistance rating of a LiteClad profile as an assembly, and no profile-specific fire test or Agrément was found. The pre-painted steel outer skin provides a non-combustible external face.

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