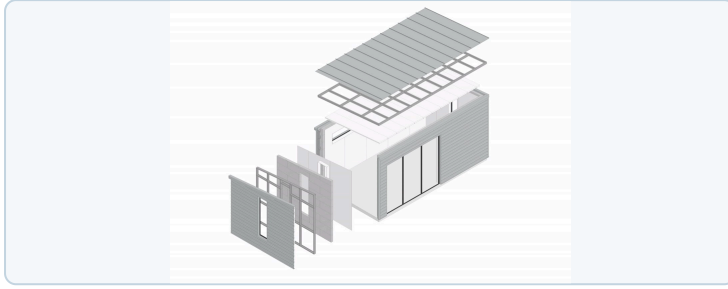


LiteClad Steel Profiles

EIFS — roof & wall finishing in metal · six roll-formed profiles for wall, roof & ceiling



Overview

LiteClad is an **EIFS in metal** — roof and wall finishing in metal. Continuous **external EPS insulation** (LiteCel standard, or **FRCel** fire-retardant) is fixed over the substrate; a galvanised top-hat rail / batten sits over it; and a 0.5 mm roll-formed, pre-painted Galvalume (AZ150) or galvanised (Z200) steel profile — Chromadek or equivalent — is screwed or clipped to the rail as the weatherskin. The painted-metal profile is the finished surface, so **no render or plaster coat is needed**. It comes in six roll-formed profiles spanning wall cladding, roofing and ceilings — fixed with concealed clips, hidden wafer screws or through-fixed roof screws to suit the look and the structure.

Profiles & applications



Standing Seam

282 / 495 mm · Concealed clips



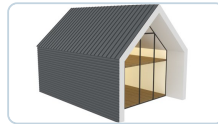
IBR Wide

990 mm · Through-fixed



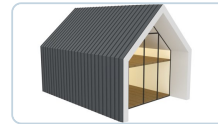
Corrugated

990 mm · Through-fixed



DutchClad

293 mm · Wafer, lapped



ClipClad

270 mm · Wafer, concealed



NuClad

490 mm · Wafer, concealed

Applications: EIFS & external wall cladding · roofing (Standing Seam, IBR Wide, Corrugated, ClipClad) · ceilings (NuClad). Concealed and through-fixed options; vertical, horizontal or lapped.

Benefits

- The painted-metal profile **is** the finish — no render or plaster coat, unlike a plastered ETICS
- External insulation and a metal weatherskin in one system — a faster, drier building envelope
- Six roll-formed profiles for wall, roof and ceiling — concealed-clip or through-fixed
- Pre-painted Galvalume / galvanised 0.5 mm steel profile; 8 standard colours
- FRCel fire-retardant EPS insulation option — Class B-s1,d0 reaction-to-fire
- Continuous external EPS insulation; wide -40 to +75 °C service range

Specifications

Profile	Cover (mm)	Fixing
Standing Seam	282 / 495	Concealed clips
IBR Wide	990	Through-fixed
Corrugated	990	Through-fixed
DutchClad	293	Wafer, lapped
ClipClad	270	Wafer, concealed
NuClad	490	Wafer, concealed

Steel profile	0.5 mm PPGL AZ150 / PPGL Z200, pre-painted
External insulation	EPS board — LiteCel standard, FRCel fire-retardant option
EPS thermal conductivity λ	≤ 0.038 W/m·K
EPS compressive strength	≥ 70 kPa
EPS density	15 kg/m ³ std (20 / 30 to order)
Service temperature	-40 to +75 °C
Installed R-value (FRCel EPS)	50 mm ≈ 1.62 · 100 mm ≈ 2.95 · 150 mm ≈ 4.40 m ² K/W

8 standard colours (RAL): Dove Grey 7042 · Basalt Grey 7012 · Dark Dolphin 7031 · Sandstone Beige 1002 · Anthracite Grey 7016 · Signal Brown 8002 · Frost White 9016 · Quartz Grey 7039

Compliance — two separate, honest fire claims. Reaction-to-fire (material): the FRCel EPS insulation is classified **Class B-s1,d0** to SANS 53501-1 (Ignis Testing IT 23-08-00009) — a reaction-to-fire material class, *not* a fire-resistance rating. **Fire resistance (assembly):** the NuClad LiteCore LSF Wall System achieved a **60-minute REI 60** rating — Stability (R), Integrity (E) and Insulation (I) — tested to SANS 10177-2 by Fire Testing Services (CSIR Pretoria), report FT 24/003 Issue 2, 22 April 2024. This rating applies to that specific tested wall system, not to a bare profile; full test report available from Technopol on request. LiteClad is not Agrément-certified (Agrément 2020/609 applies to LiteCore only). Span, wind-uplift and minimum roof pitch to be confirmed with Technopol / by the project engineer; structural design is the project engineer's responsibility.