



**TECHNOPOL SA**  
ENERGY SAVING MATERIALS

# LiteClad® - NuClad® Painted Metal One Sided Ceiling Panels

## Product description

LiteClad® - NuClad Ceiling is a composite insulation Board System for Internal Ceiling application. Profiled Painted Metal Sheeting, laminated onto one or both sides of appropriate Thermal Insulation, makes boards Weatherproof and Fire Safe. Fire Resistant Radiant Barrier backing on the inside of the NuClad Boards can be added to improve the thermal performance when and if the LiteClad® - NuClad system is fixed to Steel or Wooden membranes with Air Cavity. Core Insulation options are available upon request. The effective width of the board is 495mm.



## Typical applications

- Residential housing, offices, hospitals, clinics, and schools
- Agricultural - poultry-, piggery-farming, etc.
- Industrial, retail and warehouses

## Benefits

- Thermal efficiency
- Ease of handling
- Ease of installation
- Retrofit to existing systems

## Installation solution options

Below truss/brandering

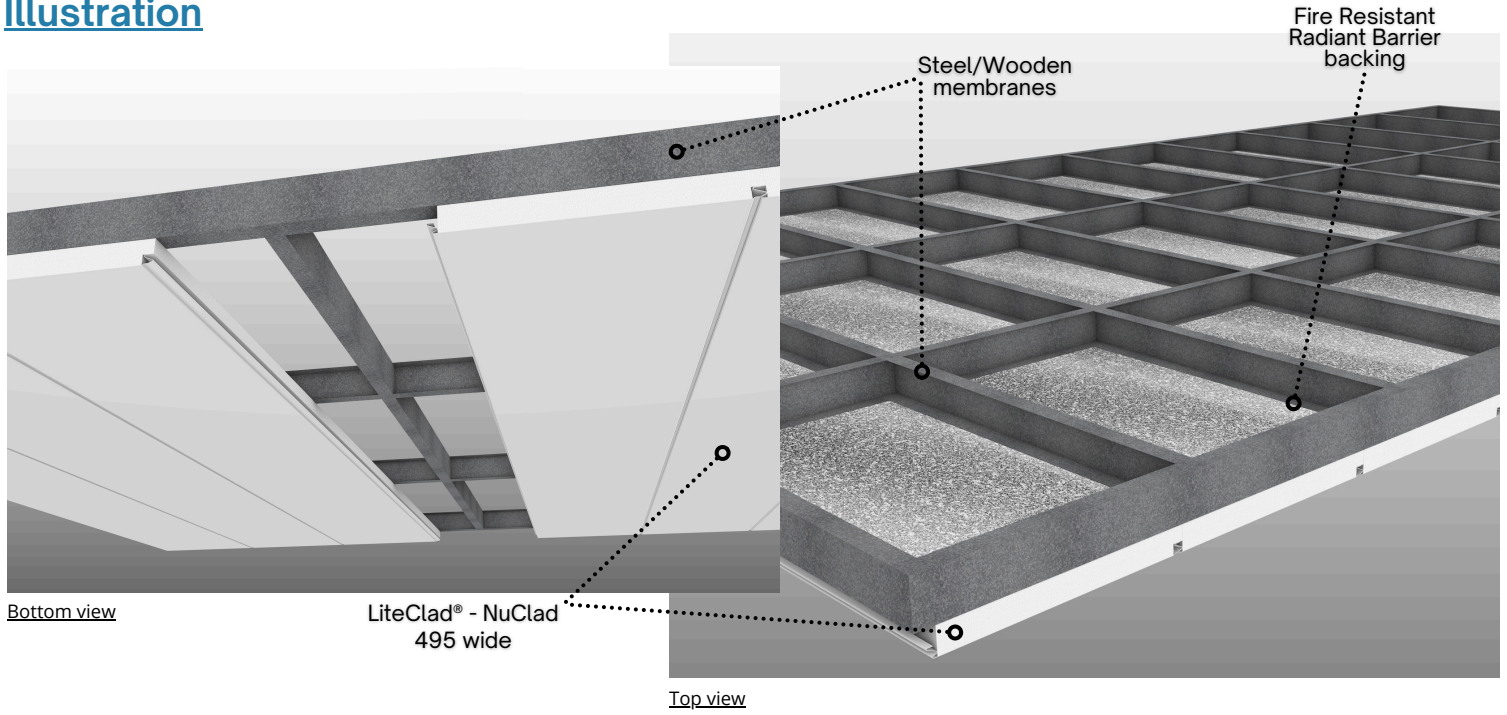
## Thermal performance

Expanded Polystyrene of the Fire Retarded type is used in a standard density of 15 kg per cubic metre. Higher densities of 20 or 30 kg per cubic metre are available if required by special insulation and mechanical requirements. The thermal performance of a 15 density LiteClad® - NuClad ceiling panel is indicated in the table below.

Board thickness (mm)	Thermal transmittance U-value (watt/m2k) - board only	Thermal resistance R-value (m2k/watt) - in application
40	1.06 Watt/m2 K - 35mm board (15 Density EPS)	1.25 m2 K/Watt- 35mm board (15 Density EPS)
60	0.75 Watt/m2 K - 50mm board (15 Density EPS)	1.68 m2 K/Watt- 50mm board (15 Density EPS)
100	0.46 Watt/m2 K - 80mm board (15 Density EPS)	2.50 m2 K/Watt- 80mm board (15 Density EPS)

LiteClad® - NuClad boards applied below the truss system are typically adopted in residential housing, offices, hospitals, clinics, and schools. The boards are held into position by using hidden fasteners which is fixed into the above trusses/brandering.

### Illustration



### Images

