

PolyCool & SuperCool

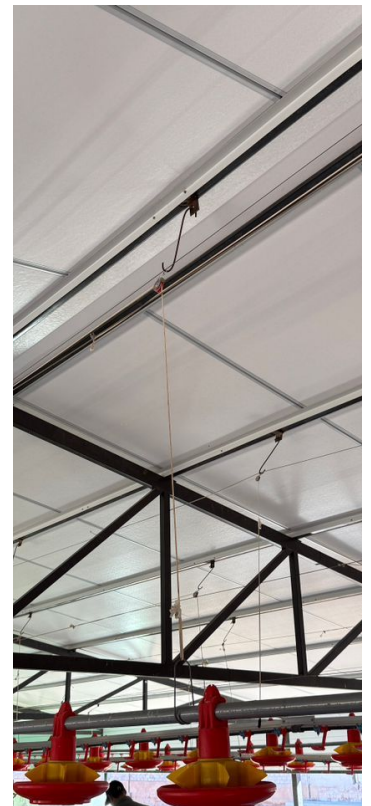
INSULATED CEILING BOARDS

PRODUCT DESCRIPTION

PolyCool and SuperCool are composite insulated-ceiling boards: a fire-retardant expanded-polystyrene core with a washable facing laminated to one side. PolyCool carries a reflective white vinyl foil on an 18 kg/m³ core, 35 to 100 mm thick and up to 6000 mm long, for houses, offices, warehouses, retail and industrial ceilings. SuperCool carries a 1 mm white uPVC facing with a tongue-and-groove edge on a 15 kg/m³ core, 50 to 100 mm thick and up to 7500 mm long, for agricultural interiors that are hosed down.

POLYCOOL & SUPERCOOL PROPERTIES

PROPERTY	VALUE
Product build-up	Three layers: washable facing / PU adhesive / fire-retardant EPS core. PolyCool: white vinyl foil.
EPS core density	PolyCool 18 kg/m ³ . SuperCool 15 kg/m ³ (FRCel 15DV). Cores of 20 or 30 kg/m ³ on request for special insulation or mechanical requirements.
Thicknesses	PolyCool 35 / 50 / 75 / 100 mm. SuperCool 50 / 60 / 75 / 100 mm.
Widths	PolyCool 600 or 1200 mm (tolerance plus or minus 5 mm). SuperCool 1200 mm.
Maximum manufactured length	PolyCool up to 6000 mm. SuperCool up to 7500 mm. Confirm the deliverable length with the factory when ordering.
Edge and joint	PolyCool: butt joint, centred on a mini top-hat or an H-strip.
Thermal resistance (R-value, in application)	PolyCool (18 kg/m ³ core): 1.27 at 35 mm / 1.69 at 50 mm / 2.40 at 75 mm / 3.00 m ² K/W at 100 mm.



Summary only — 11 further properties are given in the PolyCool & SuperCool datasheet.

APPLICATIONS AND SCOPE

APPLICATIONS

- Ceilings in houses, offices, warehouses, retail and light-commercial buildings — insulation and a finished, wipe-clean ceiling in one board
- Industrial ceilings, insulating and finishing in a single element
- SuperCool in poultry and piggery housing, including environmentally controlled broiler houses, where the ceiling is hosed down between cycles
- SuperCool-S airtight ceilings for negative-pressure poultry ventilation, the board sides pinched between mini top-hats to form the support beam

WHERE NOT TO USE IT

- As a fire division or a fire-rated ceiling. A fire division requires a fire-resistance rating in minutes
- Ceilings where the code requires a declared reaction-to-fire class for the finished lining
- SuperCool in a commercial building with a sprinkler installation
- As a structural deck, a working platform, a storage surface or a fixing base