

CeilDeck

Retrofittable rigid-EPS insulation tiles that friction-fit above the ceiling, between the roof rafters.



Overview

CeilDeck is Technopol SA's above-ceiling roof-insulation system: rigid, lightweight expanded-polystyrene (EPS) tiles that friction-fit between the bottom of the roof rafters, directly above the horizontal ceiling. Because the closed-cell tiles are cut to suit the opening, the system absorbs variability in rafter spacing instead of demanding a fixed module, and it can be fitted on a new build (before the ceiling goes up) or retrofitted into an existing ceiling. Supplied at a nominal 16 kg/m³ density in 65 mm and 120 mm thicknesses, CeilDeck adds roughly R 1.7 to R 3.2 m²K/W of continuous thermal resistance above the ceiling line for a fast, low-labour upgrade to roof/ceiling energy performance.

Applications

- Above-ceiling roof/ceiling insulation in pitched (rafter) roof construction
- New-build roofs — tiles fitted before the ceiling board is fixed
- Retrofit of existing ceilings — tiles added after the ceiling is already installed
- Residential and light-commercial ceilings
- Roofs with variable or irregular rafter spacing (tiles cut to fit)
- Boosting roof/ceiling thermal performance toward SANS 10400-XA energy-efficiency intent

Benefits

- Retrofittable — can be installed after the ceiling is already in place
- Fast, low-labour fit at ~0.15 hours/m²; friction-fit with no adhesive or fasteners stated
- Rigid closed-cell EPS — lightweight, non-hygroscopic and easy to cut and handle
- Variable-width tiles accommodate irregular rafter spacing
- Choice of thickness (65/120 mm) to dial in the required added R-value
- Forms a continuous insulation layer bridging the rafters above the ceiling line

Specifications

Material	Rigid closed-cell expanded polystyrene (EPS)
Nominal density	16 kg/m ³ (16 g/L)
Tile length	1200 / 600 mm
Tile width (nominal)	760 mm (variable-width, cut to rafter spacing)
Tile thickness	65 / 120 mm (variable available)
Added R-value @ 65 mm	1.7 m ² K/W
Added R-value @ 120 mm	3.2 m ² K/W
Thermal conductivity (derived)	approx. 0.038 W/mK
Installation labour	approx. 0.15 hours/m ²
Fixing	Friction-fit between the bottom of the rafters

Fire & compliance: CeilDeck is combustible EPS, so any fire wording concerns reaction-to-fire (the material's burning behaviour), not a fire-resistance / REI time rating, which applies only to tested wall/floor assemblies. No CeilDeck-specific reaction-to-fire class is published in the sources; do not attach Technopol's B-s1,d0 EPS FRCell result to CeilDeck until the exact grade (FR vs standard EPS) is confirmed, and note that Agreement SA 2020/609 covers the LiteCore walling system only, not CeilDeck. Keep the tiles away from open flame and ignition sources during storage and installation.

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