

Acoustic Ceiling Tile

Innovative Thermal Technology in a suspended ceiling.

Our ThermaCool® ceiling tile incorporates phase change material to provide a complete suspended ceiling for light weight systems that absorb, store and release excess latent heat from within the building, as well as stabilising the moisture content within the room.

The ThermaCool® tile offers an easy to install, cost effective and lightweight thermal mass solution with combined acoustic performance.



| DETAIL | VALUE |
|--|--|
| Product Code: | TCP418-PA24 |
| Composition: | Natural mined gypsum (Calcium Sulphate Bihydrate – CaSO ₄ 2H ₂ O) with reinforced glass fibres and incorporating an organic microencapsulated phase change material. |
| Total Heat Capacity: | 418kJ/m ² |
| Dimensions: | 600mm x 600mm |
| Thickness: | 16mm |
| Weight: | 4.4kg per panel / 12.5kg/m ² |
| Edge Profile: | Square |
| Surface Finish: | Perforated |
| Acoustic Performance (EN ISO 354:2004): | Class C (alpha _w = 0.45 (L), Class D / alpha _w = 0.7 (C), Class C) |
| Reaction to Fire (Test Standard EN13501-1): | Euroclass B (s2, d0) |
| Thermal Conductivity: | λ 0.35W/mK |
| Humidity Resistance: | 10μ (dry), 4μ (dry) |
| Installation: | To be installed into ThermaCool 24mm Clic-In ceiling grid. Main runners installed at 600mm centres with support hangers at 800mm centres along the main runner. |
| Light Reflection: | 75% - 80% |
| Clean ability: | Periodic cleaning with a vacuum and wet wiped with a damp cloth. In extreme cases the tiles can be painted. |
| Tolerances: | Thickness: +/- 2mm Length: +/- 1mm Diagonal: +/- 1mm |

| Equivalent Thickness of Building Material | Specific Heat Capacity [J/(kg)] | Density [kg/dm ³] | Required thickness of building material [mm] |
|---|---------------------------------|-------------------------------|--|
| ThermaCool TCP418-PA24 | | | 24.0 |
| Concrete | 1 | 2 | 69.8 |

