

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:	TCP227-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:	226.74 kJ/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%
Cleanability:	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 TCP227-PA24			16.0
Concrete	1	2	34.2