

Acoustic Medical Hygienic Ceiling Tile

ThermaCool® Phase Change Materials

ThermaCool® Composite Ceiling Tiles incorporate Phase Change Materials. PCMs absorb, store and release excess latent heat and add lightweight thermal mass to the building.

ThermaCool® Medical Hygienic Acoustic Tile

ThermaCool® Medical Hygienic Acoustic tile is a Square edge or Tegular tile installed in our Clic In modular grid 24mm or 15mm. Suitable for dry areas where disinfection and / or cleaning is resistant to mould and bacteria growth and to common detergents and disinfectants.

System Range

| | |
|----------------------|-----------------------------------|
| Product Code | TCPM418 PA24 |
| Total Heat Capacity | 418kJ/m ² |
| Tile Size | 600mm x 600mm |
| Modular Grid | ThermaCool Clic In. 24mm or 15mm. |
| Thickness | 40mm. |
| Edge Detail | Square Edge, Tegular. |
| Acoustic Performance | Class A absorption. EN150 354. |
| Reaction to Fire | A2. s1. d0. EN13501.1 |
| Light Reflection | 84% |

Equivalent Thickness:

| Equivalent Thickness of Building Material | Specific Heat Capacity [J/(kg)] | Density [kg/m ³] | Required thickness of building material [mm] |
|---|---------------------------------|------------------------------|--|
| ThermaCool TCPM418 PA24 | | | 24.0 |
| Concrete | 1 | 2 | 69.8 |

1 m² of ThermaCool is equal to 168kg of concrete with a density of 2400kg/m³. Equivalent to 84 bricks

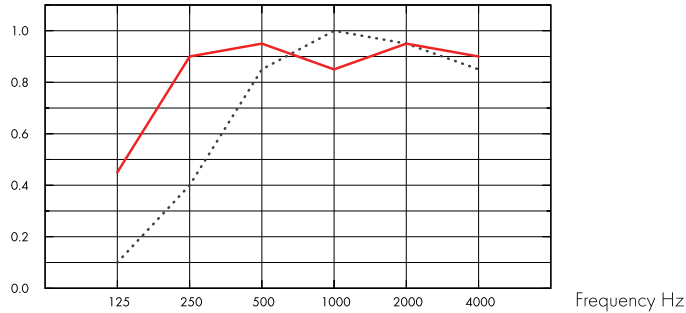
Acoustic



Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654.

α_p , Practical sound absorption coefficient



.... ThermaCool® Medical 40mm, 200mm
 - ThermaCool® Medical 40mm, 50mm o.d.s
 o.d.s = overall depth of system

| THK mm | o.d.s. mm | α_p , Practical sound absorption coefficient | | | | | | α_w | Sound absorption class |
|--------|-----------|---|--------|--------|---------|---------|---------|------------|------------------------|
| | | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | | |
| 40 | 50 | 0.10 | 0.40 | 0.85 | 1.00 | 0.95 | 0.85 | 0.70 | C |
| 40 | 200 | 0.45 | 0.90 | 0.95 | 0.85 | 0.95 | 0.90 | 0.95 | A |

| THK mm | o.d.s. mm | NRC | SAA |
|--------|-----------|------|------|
| 40 | 50 | 0.80 | 0.83 |
| 40 | 400 | 0.85 | 0.89 |

Indoor Air Quality



Certificate / Label

Eurofins Indoor Air Comfort®

IAC Gold

French VOC

A+



Cradle to Cradle Certified®



This product is Cradle to Cradle Certified® at Bronze level (version 4.0).



Material Health



This product has received a C2C Certified Material Health Certificate™ at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate™ is a verification of the health and safety of a product's composition using the Material Health requirements of the Cradle-to-Cradle Certified Product Standard.



Carbon footprint

| | kg CO ₂ equiv/m ² | Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804 |
|-----------------|---|--|
| Medical Hygenic | 2,71 | |



Circularity

| | |
|--|------------------|
| Minimum post-consumer recycled content | 44% |
| Recyclability | Fully recyclable |



Fire safety

| Country | Fire standard | Class | The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182. |
|---------|---------------|----------|--|
| Europe | EN 13501-1 | A2-s1,d0 | |



Humidity Resistance

Class C, relative humidity 95% and 30°C, according to EN 13964:2014



Visual appearance

White 500, nearest NCS colour sample S 0500-N, 84% light reflectance.



Cleanability

| Standard/Method | Frequency |
|-------------------------|-----------|
| Dusting | Daily |
| Wet wiping | Daily |
| Steam cleaning | 1/year |
| Hydrogen peroxide vapor | • |



Surface Endurance

Product tested according to ISO 11998, and withstand 200 cycles.

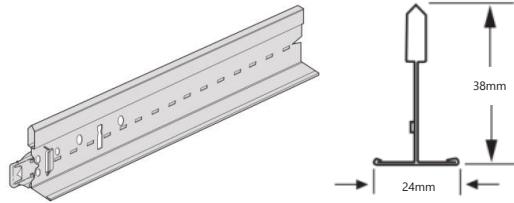


Chemical resistance/Disinfection

| Chemical | Active Substance | Concentration | Tested according to ISO 11998 and withstand the following chemicals or disinfectants. |
|-------------|---|---------------|---|
| Ethanol | Ethanol | 70% | |
| Chlorine | Sodium Hypochlorite solution | 2,5% | |
| Virkon S | Dipotassium peroxodisulphate; Sulphamic acid | 1% | |
| Isopropanol | Isopropyl Alcohol | 70% | |

Exposed 24mm grid system

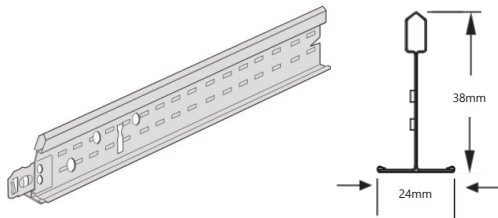
ThermaCool® Profiles 24 Main Runner



| Product Code | Dimensions | | Content / Carton | | Weight / Carton (kg) |
|--------------|-------------|-------------|------------------|-------|----------------------|
| | Length (mm) | Height (mm) | pcs | lm | |
| T24370 | 3700 | 38 | 25 | 92.50 | 32 |

European Fire Resistance Classification: A2, S1-d0
Durability Classification: Class B

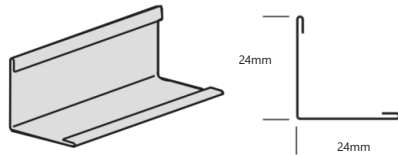
ThermaCool® Profiles 24 Cross Tees



| Product Code | Dimensions | | Content / Carton | | Weight / Carton (kg) |
|--------------|-------------|-------------|------------------|-------|----------------------|
| | Length (mm) | Height (mm) | pcs | lm | |
| T24120 | 1200 | 32 | 75 | 90.00 | 26 |
| T24060 | 600 | 32 | 75 | 45.00 | 13 |

European Fire Resistance Classification: A2, S1-d0
Durability Classification: Class B

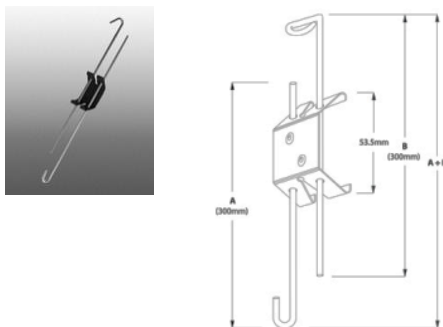
ThermaCool® Profiles 24 Perimeter Angle



| Product Code | Dimensions | | Content / Carton | | Weight / Carton (kg) |
|--------------|-------------|-------------|------------------|-------|----------------------|
| | Length (mm) | Height (mm) | pcs | lm | |
| T24300 | 3000 | 24 | 30 | 90.00 | 15 |

European Fire Resistance Classification: A2, S1-d0
Durability Classification: Class B

ThermaCool® Profiles 24 Support Hanger



| Length of Bottom Hanger (mm) A | Length of Top Hanger (mm) B | Minimum Overall Length (mm) B | Maximum Overall Length (mm) (A+B) |
|--------------------------------|-----------------------------|-------------------------------|-----------------------------------|
| 250 | 250 | 250 | 450 |
| 300 | 300 | 300 | 550 |
| 300 | 500 | 500 | 750 |
| 300 | 600 | 600 | 850 |
| 300 | 750 | 750 | 1000 |
| 300 | 1000 | 1000 | 1250 |
| 300 | 1200 | 1200 | 1450 |
| 300 | 1500 | 1500 | 1750 |
| 300 | 2000 | 2000 | 2250 |
| 300 | 3000 | 3000 | 3250 |

Certifications

ThermaCool® Profiles 24 Suspended Ceiling Grid has been tested and certified to European Standard EN 13964: 2006.

ThermaCool® Profiles 24 Suspended Ceiling Grid is CE accredited.

