



ThermaCool®

PHASE CHANGE TECHNOLOGY

Caprice Acoustic 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® Caprice Acoustic Tile

ThermaCool® Caprice is a class A acoustic tile is a light textured Square edge or Tegular tile installed in our Clic In modular grid 24mm or 15mm. Simple elegant appearance with excellent acoustic performance perfect for classrooms, meeting rooms and conference areas.

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

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

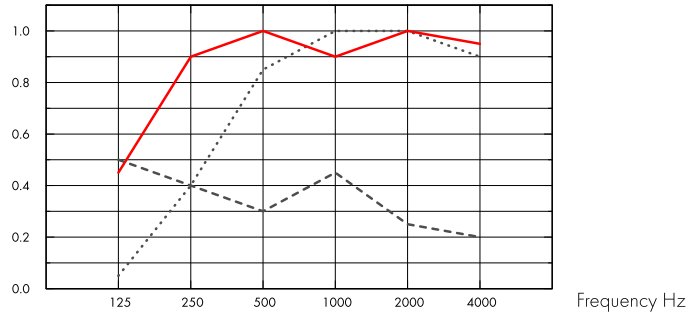
Acoustic



Sound Absorption:

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

α_p , Practical sound absorption coefficient



... Caprice A 40mm , 50 mm o.d.s.

— Caprice A 40mm , 200 mm o.d.s.

--- Caprice A/gamma 40mm , 200 mm 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	0.05	0.40	0.85	1.00	1.00	0.90	0.70	C
-	40	200	0.45	0.90	1.00	0.90	1.00	0.95	1.00	A
gamma	40	200	0.50	0.40	0.30	0.45	0.25	0.20	0.30	D

	THK mm	o.d.s. mm	NRC	SAA
-	40	50	0.80	
-	40	200	0.95	0.00
-	40	400	0.85	0.86

THK mm	AC(1.5) Articulation Class, ASTM E1111, ASTM E1110	D_{nfw} Weighted normalized flanking level difference, ISO 10848-2	CAC dB Ceiling Attenuation Class, ASTM 1414, ASTM E413
40	190	19	19

Indoor Air Quality



Certificate / Label	
Eurofins Indoor Air Comfort®	IAC Gold
French VOC	A+





Carbon footprint

	kg CO ₂ equiv/m ²	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Caprice	2,06	



Circularity

Minimum post-consumer recycled content	46%
Recyclability	Fully recyclable



Fire safety

Country	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

Classification
Class C, RH 95% and 30°C



Visual appearance

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



Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.

Caprice



Accessibility

The tiles are easily demountable. Minimum demounting depth according to installation diagrams.



Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

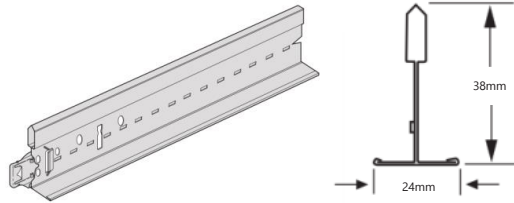


Mechanical properties

See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at www.ecophon.com

Exposed 24mm grid system

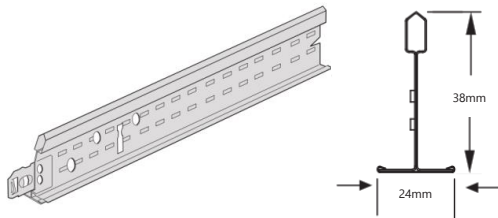
ThermaCool® Profiles 24 Main Runner



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

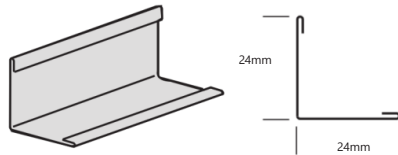
ThermaCool® Profiles 24 Cross Tees



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

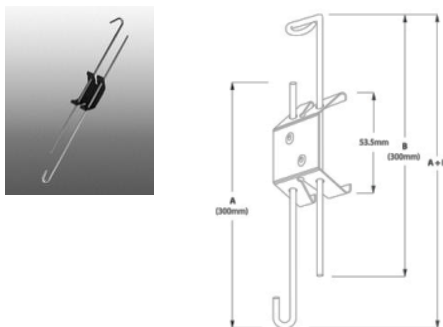
ThermaCool® Profiles 24 Perimeter Angle



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.

