econocal — calcium silicate ceiling tile

Econocal is produced from calcium silicate and is an extremely strong and durable tile. Econocal has a white vinyl face and an aluminium foil backing, as well as encapsulated edges which further enhance the tiles inherent properties.
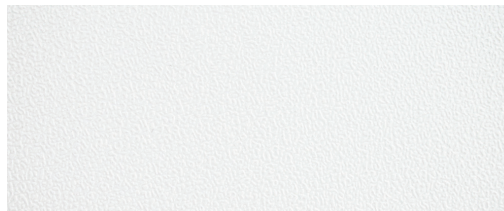
Features	Benefits
Maufactured using incombustible raw materials	The product will not burn
Excellent fire resistant properties	Flame spread is reduced and no smoke or poisonous gas is produced by presence of fire
Resists moisture without degradation	Ideal for wet areas eg: bathrooms, kitchens and non-airconditioned areas which have high relative humidity
Low co-efficient of expansion and contraction	Systems installations improve efficiency of airconditioning thereby lowering long term running costs
Composition and hardness	Particle emission is greatly reduced
Hardened tile edges	Offers extra strength and reduces risk of breakages
Stable and durable	Resistant to buckling, cracking and sagging even under adverse environmental conditions

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Hospitals, Schools, Office Buildings and Retail Outlets
Preferred specification for healthcare facilities

SURFACE FINISHES AND SIZES

white
1200 X 600 X 6mm SE
8.33 kg/m^2
Packing Details:
10 tiles / 7.2 m^2 per pack
300 tiles per stack

Econocal can be cut with a scoring knife, circular saw or hand saw. Holes can be made with a hole saw.

Characteristics	White
Humidity Resistance	100%
Fire Classification	Class A/A1/2
Durability	Termite and rodent proof
Density	1.01 g/cm^3
NRC	0.22 - 0.70
Impact Resistance	High impact resistance

FIRE PERFORMANCE CLASSIFICATION FOR BUILDINGS: SANS 428:2012 (10177-5 & 10177-10)
The econocal ceiling tile as tested did not propagate flaming during the standard SANS 10177-10 test.
The overall classification of econocal in terms of the SANS specification is therefore: CLASS A/A1/2

Bill of quantity specification:

Econocal vinyl clad calcium silicate aluminium foil backed ceiling tiles size 1200 x 600 x 6mm thick with White vinyl finish laid onto Econogrid 38 x 24mm pre-painted white exposed tee grid system.
Find this spec on Autospec and CCN

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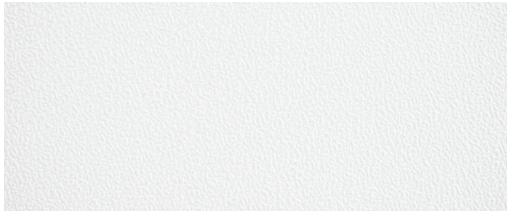# econotherm insulated calcium silicate ceiling tile

Econotherm tiles have an added component of 25mm fire retardant polystyrene applied to the back of the standard Econocal tile which improves the thermal resistance of the tile.

All the other features and benefits of the Econocal tile apply as well as.

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SURFACE FINISHES AND SIZES

white
1200 X 600 X 31mm (6+25mm) SE
9.03 kg/m^2
Packing Details:
10 tiles / 7.2 m^2 per pack
100 tiles per stack

Econotherm can be cut with a scoring knife, circular saw or hand saw. Holes can be made with a hole

Characteristics	White
Humidity Resistance	100%
Fire Classification	Class A/A1/2
Durability	Termite and rodent proof
Density	1.01 g/cm^3
Thermal Resistance	0.7 - 0.8 m^{2}k/w
Impact Resistance	High impact resistance

FIRE PERFORMANCE CLASSIFICATION FOR BUILDINGS: SANS 428:2012 (10177-5 & 10177-10)
The econotherm ceiling tile as tested did not propagate flaming during the standard SANS 10177-10 test.
The overall classification of econotherm in terms of the SANS specification is therefore: CLASS A/A1/2

Bill of quantity specification:

Econotherm 6mm calcium silicate aluminium foil backed and 25mm thick fire retardant polystyrene glued to back. Ceiling tiles size 1200 x 600 x 31mm overall thickness with White vinyl finish laid onto Econogrid 38 x 24mm pre-painted white exposed tee grid system.
Find this spec on Autospec and CCN

* **NOTE**: All ceilings should be installed in accordance with the current code of practice for ceiling installation adopted by the South African Building Interior System Association (SABISA) and the manufacturer's instructions. Care should be taken to ensure that the fixing used for the suspension points should be able to support a safety factor of three times the design load of the ceiling. Suspended ceilings are not designed to take the weight of services personnel walking around on its surface. The ceiling erection should take place at a late stage in the building contract when the area is clean and there is less likelihood of damage from other trades and exposure to the elements.

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