



econogrid

exposed grid for suspended ceilings

The advantage of suspended ceilings is in their ability to create an aesthetic interior finish while concealing and allowing access to all the services that make an interior space function practically including lighting and air-conditioning and if required optimising acoustics as well.

econogrid is designed to meet the most stringent requirements for modern day's complex buildings and is suitable for any suspended ceiling application including offices, retail outlets, hospitals, schools, hotels and restaurants.

Features and Benefits

- High quality hot-dip galvanised steel with pre-painted capping ensuring effectiveness against corrosion and high light reflectance properties
- Positive lock coupling mechanism with an audible click
- econogrid can be disassembled and reused
- Stepped end cross tees that prevent tee rotation
- Mid-span deflection not exceeding 1/360 of the span length
- Main Tee includes a fire safety feature (see additional information below)
- Main Tees are punched at 100 centres to facilitate versatility for all tile sizes

econogrid 24mm x 38mm (including fire safety feature)

Description	Size (m)	Qty / Box	Mass / Box (kg)	Coverage (m ² / Box)	Boxes / Pallet	Qty / Pallet	Mass / Pallet (tons)
Main Tee	3.6	20	24.11	82	105	2100	2.50
Cross Tee	1.2	60	21.18	43	50	3000	1.10
Cross Tee	0.6	60	10.65	43	90	5400	1.00
Wall Angle 24 x 19 x 0.5 mm	3.6	40	27.16	144 lm / Box	92	3680	2.80
Shadowline Wall Angle 24 x 20 x 20 x 13 mm	3.6	30	35.24	108 lm / Box	67	2010	2.50



Main Tee



Cross Tee



Wall Angle



Shadowline Trim

Recommendations for Installation

Being part of the decorative finish, the installation of the ceiling needs to take place after services are installed to avoid interference and damage to the grid, especially the white chromodek face. It is advisable to limit the amount of time the grid is stored on site, and ensure that the area is clean and dry.

Fire Safety

econogrid Main Tees include a fire punch out as an additional safety feature to facilitate a more controlled collapse of the ceiling in the event of a fire. The punch-out allows expansion of the Main Tee during a fire which prevents econogrid from twisting, bending or bowing unpredictably and enables the econogrid system to tighten and remain intact limiting any collapsing of the ceiling tiles and the creation of gaps in the perimeter thereby assisting in the containment of the fire.

Bill of Quantity Specification

Supply and install Pelican Systems econogrid consisting of econogrid Wall Angle (standard / shadowline) fixed to the perimeter wall using fixings at 400mm centres. Space econogrid Main Tees at 1200mm centres. Suspend Main Tees using 2.5mm thick pre-stretched Galvanised Hanger Wire or 19mm Hanger Strap at 1200mm centres. Galvanised Hanger Wire shall be put through the Main Tees hole and wound three times around itself. Two Steel Pop Rivets or one 13mm Wafer Tek Screw shall be used to fix the Hanger Strap to the Main Tees bulb.

Install econogrid Cross Tees (1200mm long) at 600mm centres to create a 1200 x 600mm ceiling grid.

Install econogrid Cross Tees (600mm long) into the 1200mm long cross tees to create a 600 x 600mm ceiling grid. Main tee should be fixed to the wall using angle cleats.

All installations to be done in accordance with SABISA guidelines. Specifications are available on Autospec and our website.

Pelican Systems has an ISO 9001 Quality Management System in place and has had continuous certification since 2005.

A full list of stockists is available on the Contacts Page of our website.



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Visit our website on www.pelican.co.za
Email info@pelican.co.za



creating environments

Features and Benefits include:

- Foil backing increases thermal resistance and NRC properties
- Encapsulated (taped) edges limit water penetration, promote a longer life span and minimize gypsum dust
- Tiles are non-toxic, non-combustible and resistant to humidity



SAFE & SUITABLE FOR ALL TYPES OF COMMERCIAL APPLICATIONS

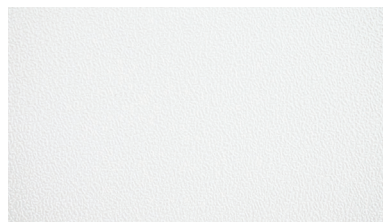
Retail Outlets, Offices, Schools, Hospitals and Restaurants

Test Item	Test Result
Acoustics	NRC 0.509
Thermal Resistance	0.25(m2.k)/W
Fire Classification	Class B/B1/2
Encapsulated Edges & Appearance Quality	No cracks, no fragments, no warps, no distortions, no broken edges & corners that have bad effects on its usage and appearance
Bulk Density	7.7 kg/m ³
Moisture Content	1.4 %
Flexural Load	169N

FIRE PERFORMANCE CLASSIFICATION FOR BUILDINGS: SANS 428:2012 (10177-5 & 10177-10)

The econotile ceiling system as tested did not propagate flaming during the standard SANS 10177-10 test. The material is classified as combustibile in terms of SANS 10177-5:2012. The overall classification of econotile in terms of the SANS specification is therefore: CLASS B/B1/2

SURFACE FINISHES AND SIZES



shell white

9mm
1200 x 600
600 x 600

6.75 kg/m²

12mm
1200 x 600
600 x 600

9.00 kg/m²



fissured

Packing Details:

12mm:	1200 x 600: 6 tiles / 4.32 m ² per pack, 300 tiles per stack
	600 x 600: 6 tiles / 2.16 m ² per pack, 600 tiles per stack
9mm:	1200 x 600: 8 tiles / 5.76 m ² per pack, 400 tiles per stack
	600 x 600: 8 tiles / 2.88 m ² per pack, 800 tiles per stack

Bill of quantity specification:

Supply and install Pelican Econotile foil back ceiling tiles with (white) or (fissured) vinyl face finish, size (600 x 600 x 9 or 12mm) or (600 x 1200 x 9 or 12mm) laid on Pelican Econogrid exposed suspension ceiling grid system with pre-painted white capping, ceiling perimeter to be finished with pre-painted (Standard) or (Shadowline) wall trim. Hold down clips may be used to hold the ceiling tiles firmly in position. Suspension shall be in accordance with the manufacturer's recommendations and to include all necessary hangers, sub grid and fixings.

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.



Pelican Systems is an ISO 9001:2008 certified company (certified from 2005)



econocal for moisture resistant ceilings

econocal ceiling tiles are produced from calcium silicate and are an extremely strong and durable tile which resists moisture and is ideally suited for ceilings in areas exposed to high humidity as well as hygiene sensitive areas. econocal tiles have a fire classification of A/A1/1 meaning they are non-combustible and there are no limitations as to where they can be used.

econocal ceiling tiles have a white vinyl face and an aluminium foil backing, as well as encapsulated edges which further enhance the tiles inherent properties.

econocal tiles are 100% humidity resistant..

Features	Benefits
<ul style="list-style-type: none"> Manufactured using incombustible raw materials Excellent fire resistant properties Resists moisture without degradation 	<ul style="list-style-type: none"> The product will not burn Flame spread is reduced and no smoke or poisonous gas is produced Ideal for wet areas eg: bathrooms, kitchens and non-airconditioned areas which have high relative humidity
<ul style="list-style-type: none"> Low co-efficient of expansion and contraction 	<ul style="list-style-type: none"> Systems installations improve efficiency of air conditioning thereby lowering long term running costs
<ul style="list-style-type: none"> Composition and hardness Hardened Tile Edges Stable and durable 	<ul style="list-style-type: none"> Particle emission is greatly reduced Offers extra strength and reduces risk of breakages Resistant to buckling, cracking and sagging even under adverse environmental conditions

Safe & suitable for all types of commercial applications

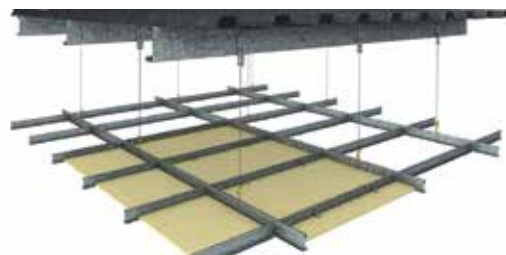
Hospitals, Schools, Industrial Kitchens, Clinics and any areas exposed to high humidity and hygiene sensitive areas.
Preferred specification for healthcare facilities

Product and Stocking Information

Approved
by the
Health
Department

100% humidity resistant vinyl clad calcium silicate ceiling tile

white
1200 x 600 x 6mm SE
600 x 600 x 6mm SE
8.33 kg/m²



Packing Details: 10 tiles / 7.2 m² per box / 3.6 m² per box
1200 x 600 - 40 boxes / 400 tiles per pallet | 600 x 600 - 80 boxes / 800 tiles per pallet / Mass per pallet 2.5 tons

Recommended Tools for Installation

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

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/A1/1

Bill of Quantity Specification

Lay Pelican Systems White econocal (1200 x 600mm / 600 x 600mm) x 6mm ceiling tile into econogrid ceiling grid. Ceiling grid consisting of econo Wall Angle (Standard / Shadowline) fixed to the perimeter wall using fixings at 400mm centres. Space econogrid Main Tees at 1200mm centres and suspend Main Tees using 2.5mm Galvanised Hanger Wire or 19mm Hanger Strap at 1200mm centres. Galvanised Hanger Wire shall be put through the Main Tees hole and must wind three times around itself. Two Steel Pop Rivets or one 13mm Wafer Tek screws shall be used to fix the Hanger Strap to the Main Tees web. Install econogrid Cross Tees (1200 long) at 600mm centres to create a 1200 x 600mm ceiling grid.

All installations to be done in accordance with SABISA guidelines. Specifications are available on Autospec and our website.

Pelican Systems has an ISO 9001 Quality Management System in place and has had continuous certification since 2005.

A full list of stockists is available on the Contacts Page of our website.



econotherm for insulated moisture resistant ceilings

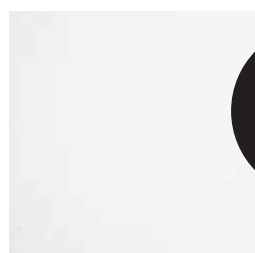
econotherm tiles have an added component of 25mm fire retardant polystyrene applied to the back of the standard econocal tile which improves the thermal resistance of the tile.

Features	Benefits
Manufactured using incombustible raw materials Excellent fire resistant properties Resists moisture without degradation Composition and hardness Hardened Tile Edges Stable and durable	The product will not burn Flame spread is reduced and no smoke or poisonous gas is produced Ideal for wet areas eg: bathrooms, kitchens and non-airconditioned areas which have high relative humidity Particle emission is greatly reduced Offers extra strength and reduces risk of breakages Resistant to buckling, cracking and sagging even under adverse environmental conditions

Safe & suitable for all types of commercial applications

Hospitals, Schools, Industrial Kitchens, Clinics and any areas exposed to high humidity and hygiene sensitive areas. Preferred specification for healthcare facilities

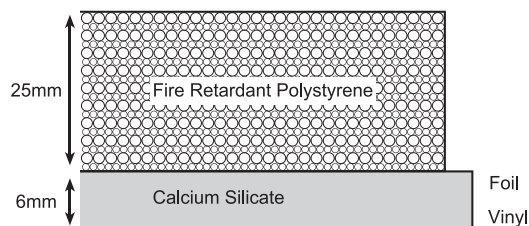
Product and Stocking Information



Approved
by the
Health
Department

100% humidity resistant

white vinyl finish
1200 x 600 x 31mm (6 + 25mm)
9.03 kg/m²



Characteristics	
Humidity Resistance	100%
Fire Classification	CLASS A/A1/2
Density	1.01 g/cm ³
Thermal Resistance	0.7 - 0.8m ² k/w
Impact Resistance	High impact resistance

Packing Details: 4 tiles / 2.88 m² per box
30 boxes / 120 tiles per pallet / Mass per pallet 780 kgs

Recommended Tools for Installation

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

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

Lay Pelican Systems White econotherm 1200 x 600 x 31mm ceiling tile into econogrid ceiling grid. Ceiling grid consisting of econo Wall Angle (Standard / Shadowline) fixed to the perimeter wall using fixings at 400mm centres. Space econogrid Main Tees at 1200mm centres and suspend Main Tees using 2.5mm Galvanised Hanger Wire or 19mm Hanger Strap at 1200mm centres. Galvanised Hanger Wire shall be put through the Main Tees hole and must wind three times around itself. Two Steel Pop Rivets or one 13mm Wafer Tek Screws shall be used to fix the Hanger Strap to the Main Tees web. Install econogrid Cross Tees (1200 long) at 600mm centres to create a 1200 x 600mm ceiling grid.

All installations to be done in accordance with SABISA guidelines. Specifications are available on Autospec and our website.

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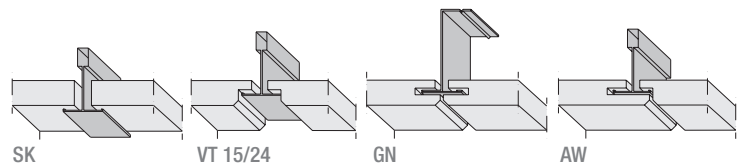
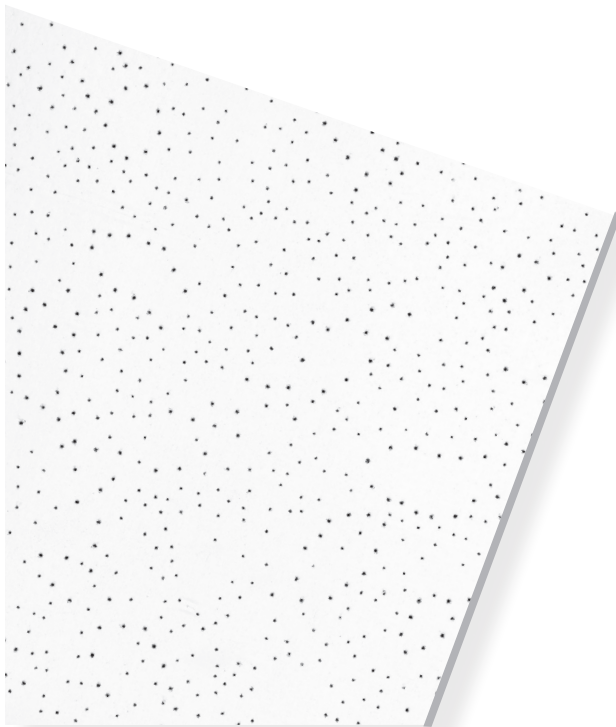
A full list of stockists is available on the Contacts Page of our website.



THERMATEX Star

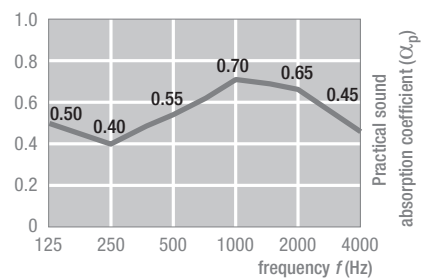
THERMATEX ceiling tiles are made of modern, bio-soluble mineral wool, perlite, clay and starch with excellent outstanding physical properties in fire resistance and acoustic performance.

- | | |
|--------------------|--|
| SYSTEM | <ul style="list-style-type: none"> C Exposed Grid System, demountable ceiling F Free span system, with exposed or concealed suspension I Bandraaster system, with exposed or concealed suspension A Concealed system, panels demountable / non demountable |
| Dimensions | <ul style="list-style-type: none"> 600 x 600 mm, 625 x 625 mm, plank sizes available on request |
| Thickness / Weight | <ul style="list-style-type: none"> 15 mm (c. 4.0 kg/m²) 19 mm (c. 5.3 kg/m²) 40 mm (c. 12 kg/m²) |
| Colour | <ul style="list-style-type: none"> White similar to RAL 9010 |
| Edge details | <ul style="list-style-type: none"> SK, VT 15/24, AW, GN |



TECHNICAL PERFORMANCE

- | | |
|----------------------|--|
| Reaction to fire | <ul style="list-style-type: none"> A2-s1, d0 as per EN 13501-1 |
| Fire protection | <ul style="list-style-type: none"> Up to 60 minutes as per BS 476: parts 20 - 23 (according to test certificate) |
| Sound absorption | <ul style="list-style-type: none"> EN ISO 354 $\alpha_{w} = 0.60$ as per EN ISO 11654 NRC = 0.60 as per ASTM C 423 |
| Sound attenuation | <ul style="list-style-type: none"> $D_{n,c,w} = 34$ dB as per EN 20140-9 (15 mm thickness, according to test certificate) |
| Light reflectance | <ul style="list-style-type: none"> Up to 90% |
| Thermal conductivity | <ul style="list-style-type: none"> $\lambda = 0.052 - 0.057$ W/mK as per DIN 52612 |
| Humidity | <ul style="list-style-type: none"> Up to 95% RH |



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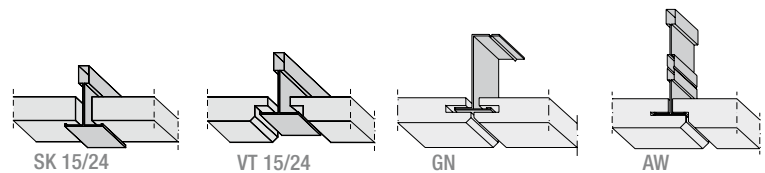
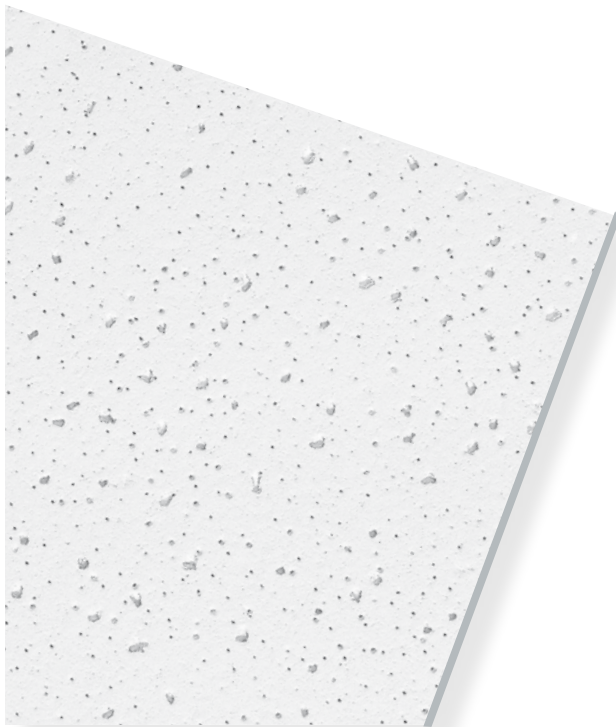
All information provided is based on current technical data. Further relevant test reports, assessments and installation guidelines are available. All system details conform with current standards and are based on the use of AMF products and system components. AMF accepts no liability or responsibility for use of third party components, or for any variations to conditions stipulated in test data. Mixing of production batches is not recommended.

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THERMATEX Mercure

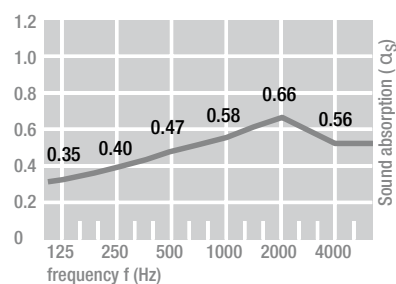
■ Ceiling tiles are made-up of modern, bio-soluble mineral wool, perlites, clay and starch with excellent outstanding physically properties in fire resistance and acoustic performance.

- | | |
|--------------------|---|
| SYSTEM | <ul style="list-style-type: none"> ■ C Exposed Grid System, demountable ceiling ■ F Free span system, with exposed or concealed suspension ■ I Bandrastrer system, with exposed or concealed suspension ■ A Ceancealed system, panels demountable / not demountable |
| Dimensions | <ul style="list-style-type: none"> ■ 600 x 600 mm, 625 x 625 mm, plank sizes available on request |
| Thickness / Weight | <ul style="list-style-type: none"> ■ 15 mm (c. 4.5 kg/m²) ■ 19 mm (c. 5.7 kg/m²) |
| Colour | <ul style="list-style-type: none"> ■ White similar to RAL 9010 |
| Edge details | <ul style="list-style-type: none"> ■ SK, VT 15/24, AW, GN |



TECHNICAL PERFORMANCE

- | | |
|----------------------|---|
| Reaction to fire | ■ A2-s1, d0 as per EN 13501-1 |
| Fire protection | ■ Up to 60 minutes as per BS 476: parts 20 - 23 |
| Sound absorption | <ul style="list-style-type: none"> ■ $\alpha_w = 0.60$ as per EN ISO 11654 ■ NRC = 0.55 as per ASTM C 423-01 |
| Sound attenuation | ■ $D_{n,c,w} = 34$ dB as per EN 20140-9 (15 mm thickness) |
| Thermal conductivity | ■ $\lambda = 0.052 - 0.057$ W/mK as per DIN 52612 |
| Humidity | ■ Up to 90 % RH |



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All information provided is current technical data. All relevant test reports, assessments and installation guidelines are to be considered. All system details conform with current technology and are based on the use and compatibility of AMF products and system components used in both internal and external tests. AMF accepts no liability or responsibility for use of third party components, or for any variations to conditions stipulated in test data. We recommend not to mix production batches on jobs.

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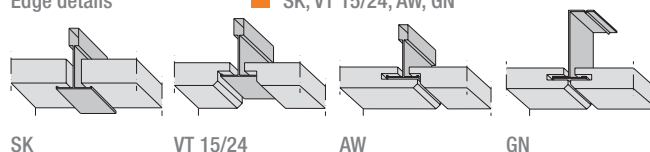


THERMATEX® Fine Stratos micro

THERMATEX® ceiling tiles are made of modern, bio-soluble mineral wool, perlite, clay and starch with excellent outstanding physical properties in fire resistance and acoustic performance.

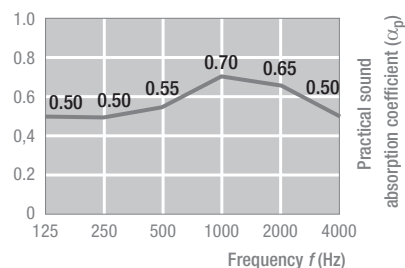


- SYSTEM**
- C** Exposed Grid System, demountable ceiling
 - F** Free span system, with exposed or concealed suspension
 - I** Bandrastrer system, with exposed or concealed suspension
 - A** Concealed system, panels demountable / non demountable
- Dimensions**
- 600 x 600 mm, 625 x 625 mm, plank sizes available on request**
- Please note**
- The minimum quantities according to the price list!**
- Thickness / Weight**
- 15 mm (c. 4.0 kg/m²)**
 - 19 mm (c. 5.3 kg/m²)**
- Colour**
- White similar to RAL 9010**
- Edge details**
- SK, VT 15/24, AW, GN**

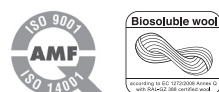


TECHNICAL PERFORMANCE

- Building material class** **A2-s1, d0** as per EN 13501-1
- Fire resistance** **F30 - F120** as per DIN 4102 part 2 (as per test certificate)
REI30 - REI120 per EN 13501 part 2 (as per test certificate)
- Sound absorption** **EN ISO 354**
 $\alpha_w = 0.60$ as per EN ISO 11654
 $NRC = 0.60$ as per ASTM C 423
- Sound attenuation** **$D_{n,f,w} = 34$ dB** as per EN ISO 10848 (15 mm thickness)
 $D_{n,f,w} = 38$ dB as per EN ISO 10848 (19 mm thickness)
according to test certificates
- Sound insulation** **$R_w = 22$ dB** as per EN ISO 10848
(15 mm thickness, according to test certificate)
- Light reflectance** **Up to 88%**
- Thermal conductivity** **$\lambda = 0.052 - 0.057$ W/mK** as per DIN 52612
- Air permeability** **PM1 (≤ 30 m³/hm²)** as per DIN 18177
- Humidity** **Up to 95% RH**



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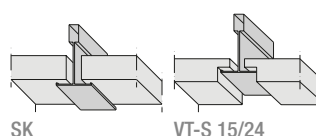
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THERMATEX® Thermofon

■ THERMATEX® Thermofon is a low density mineral tile with a painted acoustic fleece facing. It offers outstanding sound absorption values.

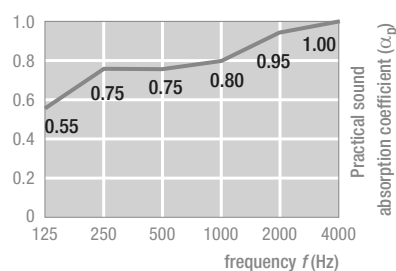


SYSTEM	■ Exposed system, demountable ceiling
Dimensions	■ 600 x 600 mm, 625 x 625 mm further sizes available on request
Thickness / weight	■ 15 mm (c. 2.6 kg/m ²)
Colour	■ White similar to RAL 9010
Edges details	■ SK, VT-S 15/24



TECHNICAL PERFORMANCE

Building material class	■ A2-s1, d0 as per EN 13501-1 Class A as per ASTM E1264 (tested according to ASTM E84)
Sound absorption	■ EN ISO 354 $\alpha_w = 0.80(H)$ as per EN ISO 11654 NRC = 0.85 as per ASTM C 423
Sound attenuation	■ $D_{n,f,w} = 28$ dB as per EN ISO 10848 (15 mm thickness, according to test certificate)
Light reflectance	■ Up to 88%
Thermal conductivity	■ $\lambda = 0.038$ W/mK as per EN 12667
Humidity	■ Up to 95% RH
Clean room classification	■ ISO - Class 4 (as per ISO 14644-1)



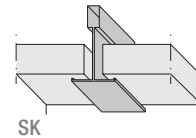
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THERMATEX Thermofon black

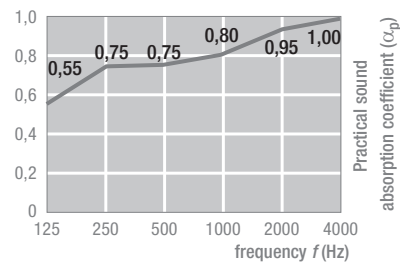
THERMATEX Thermofon black is a low density mineral tile with a painted acoustic fleece facing. It offers outstanding sound absorption values.

SYSTEM	Exposed system, demountable ceiling
Dimensions	1200 x 600 mm further sizes available on request
Thickness / weight	15 mm (c. 2,6 kg/m ²)
Colour	Black
Edges details	SK



TECHNICAL PERFORMANCE

Building material class	A2-s1, d0 as per EN 13501-1
Sound absorption	$NRC = 0.85$ as per ASTM C 423
Sound attenuation	$D_{n,f,w} = 28$ dB as per EN 10848 (15 mm thickness, according to test certificate)
Thermal conductivity	$\lambda = 0,038$ W/mK as per EN 12667
Humidity	Up to 95% RH
Fire rating	Group 1S



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