

PERFORMANCE CEILINGS
More scope for innovation



**Ceiling design
in a new light.**



THERMATEX Varioline
Create Atmosphere!



THERMATEX Varioline

Experience new spaces -

**with ceilings in metal and wood-look:
THERMATEX Varioline.**

Outstanding modern architecture is characterised by the drive to create living and working spaces in which people feel comfortable. This requires an environment to be constructed based on aesthetic harmony and appealing design together with consideration for comfort and privacy. When designing liveable spaces, form, texture and colour play an equal role with functionality, such as fire protection and acoustics, which are always dependent on application.



Knauf AMF presents the new product range THERMATEX Varioline. Design and function are united in a unique way, placing architectural ceiling design possibilities in a new light.

THERMATEX Varioline is used when the elegance of a metal ceiling or the warm look of a wood ceiling is required combined at the same time with the need to fulfil structural requirements such as fire protection, acoustics or humidity resistance.

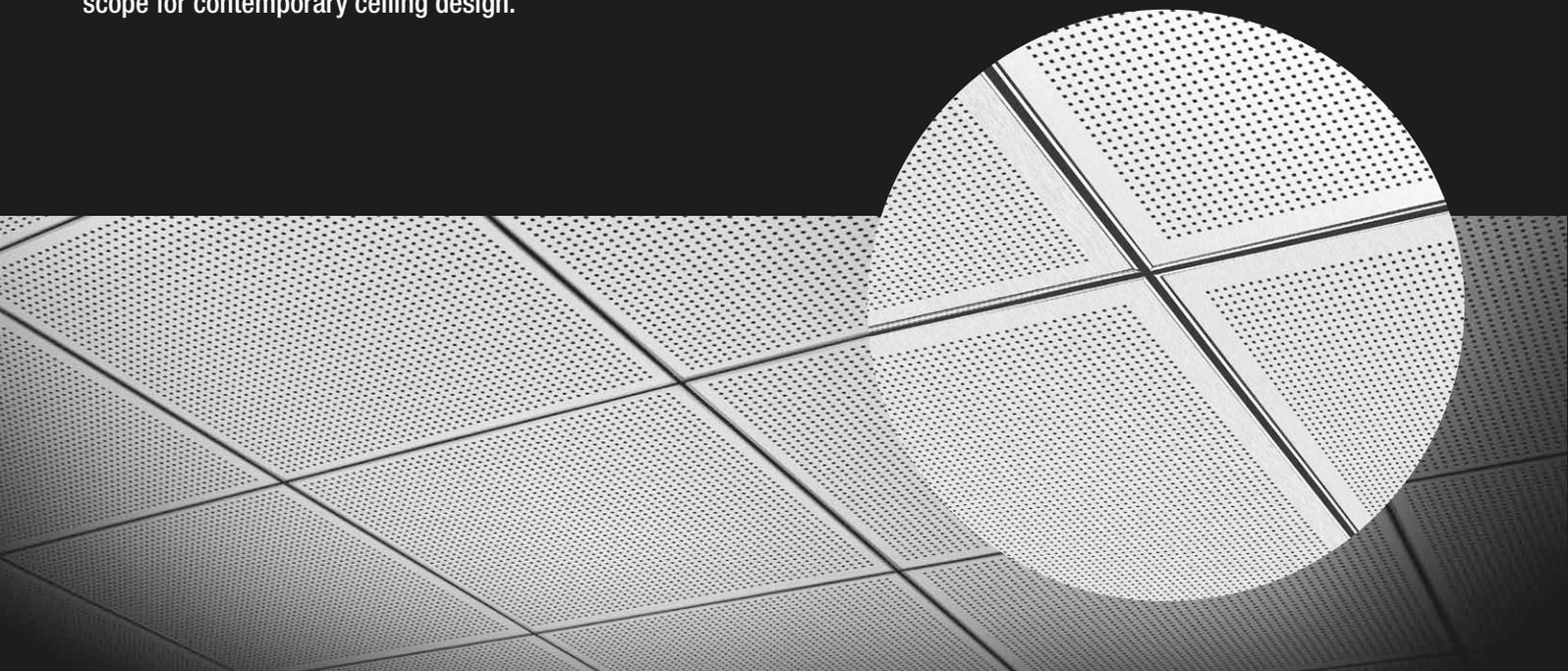
The advantages:

- Wide variety of design options
- Maximum sound absorption
- Dimensionally stable and easy to handle
- Fire protection
- Light weight
- 100% recyclable

THERMATEX Varioline metal

The mineral ceiling with a metal ceiling aesthetic.

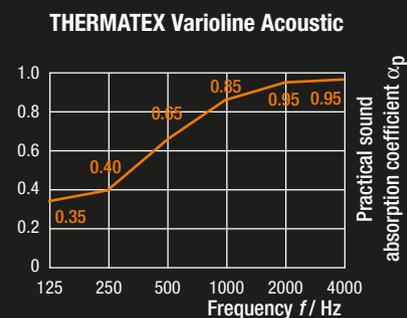
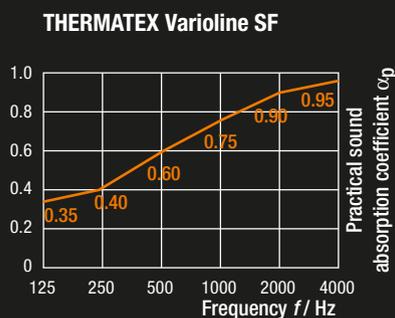
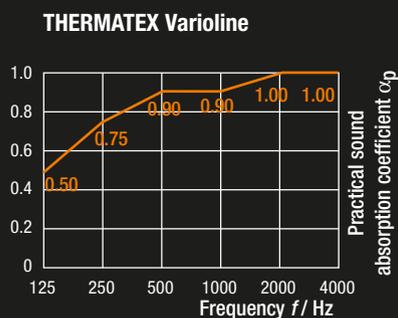
The THERMATEX Varioline metal product range achieves its surface design with a high quality acoustic fleece on which the typical perforation patterns of metal ceilings are printed with high contrast in black. This essentially maintains the performance of the mineral tile. Different perforation patterns in combination with different edge configurations provide the architect or designer with large scope for contemporary ceiling design.



THERMATEX	Metal finishes white			Edge configuration					Technical data					
	Systems	Thickness/weight	Format	SK	VT-S15/24	VT-S15F	SF	AW/SK	Sound absorption (EN ISO 11654)	Sound attenuation (EN 20140-9 / EN ISO 10848)	Building material class (EN 13501-1)	Fire resistance (EN 13501-2)	Humidity resistance	Thermal conductivity (DIN 52612 / EN 12667)
Varioline	C	19 mm (3.0 kg/m ²)	600 x 600, 625 x 625	✓	✓	✓			$\alpha_w = 0.95$ NRC = 0.90	$D_{n,t,w} = 28$ dB	A2-s1,d0	REI 30 - REI 90	95% RH	0.040 W/mK
Varioline SF	C	24 mm (8.4 kg/m ²)	600 x 600, 625 x 625				✓		$\alpha_w = 0.65$ (H) NRC = 0.70	$D_{n,c,w} = 38$ dB	A2-s1,d0	REI 30	95% RH	0.052-0.057 W/mK
Varioline Acoustic	F, I	19 mm (4.6 kg/m ²)	1200-1800 x 300					✓	$\alpha_w = 0.65$ (H) NRC = 0.70	$D_{n,c,w} = 40$ dB	A2-s1,d0	REI 30	95% RH	0.052-0.057 W/mK

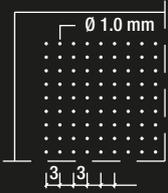
Other variations available on request.

■ Sound absorption values for:

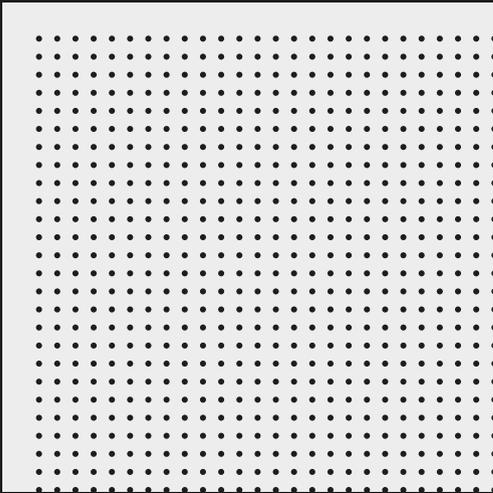


Pattern A

Rg 1.0 - 3.0

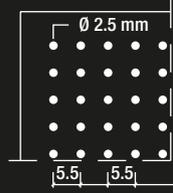


- Point diameter: 1.0 mm
- Point centres: 3.0 mm
- Shape: round
- Point pitch: square

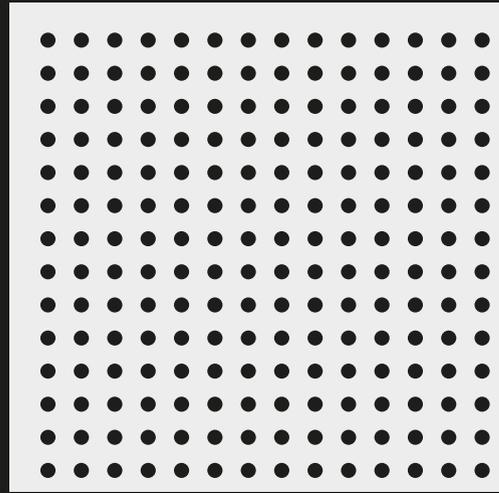


Pattern B

Rg 2.5 - 5.5

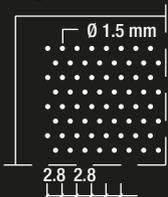


- Point diameter: 2.5 mm
- Point centres: 5.5 mm
- Shape: round
- Point pitch: square

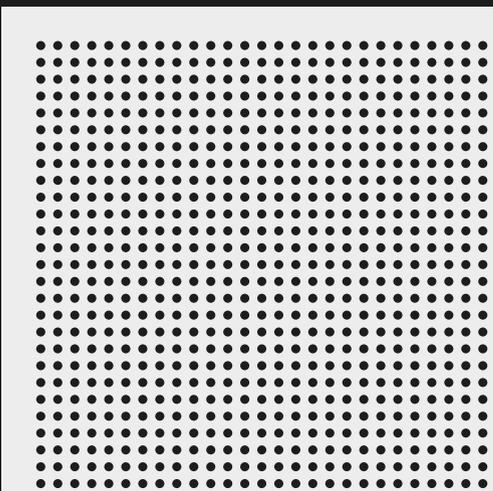


Pattern C

Rg 1.5 - 2.8D

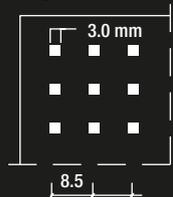


- Point diameter: 1.5 mm
- Point centres: 2.8 mm
- Shape: round
- Point pitch: diagonal

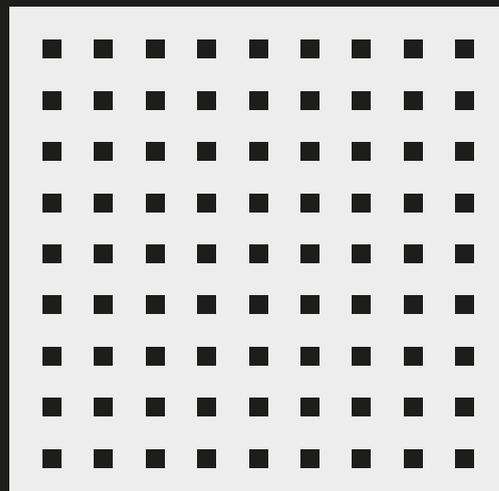


Pattern D

Qg 3.0 - 8.5



- Dimensions: 3 x 3 mm
- Point centres: 8.5 mm
- Shape: square
- Point pitch: square



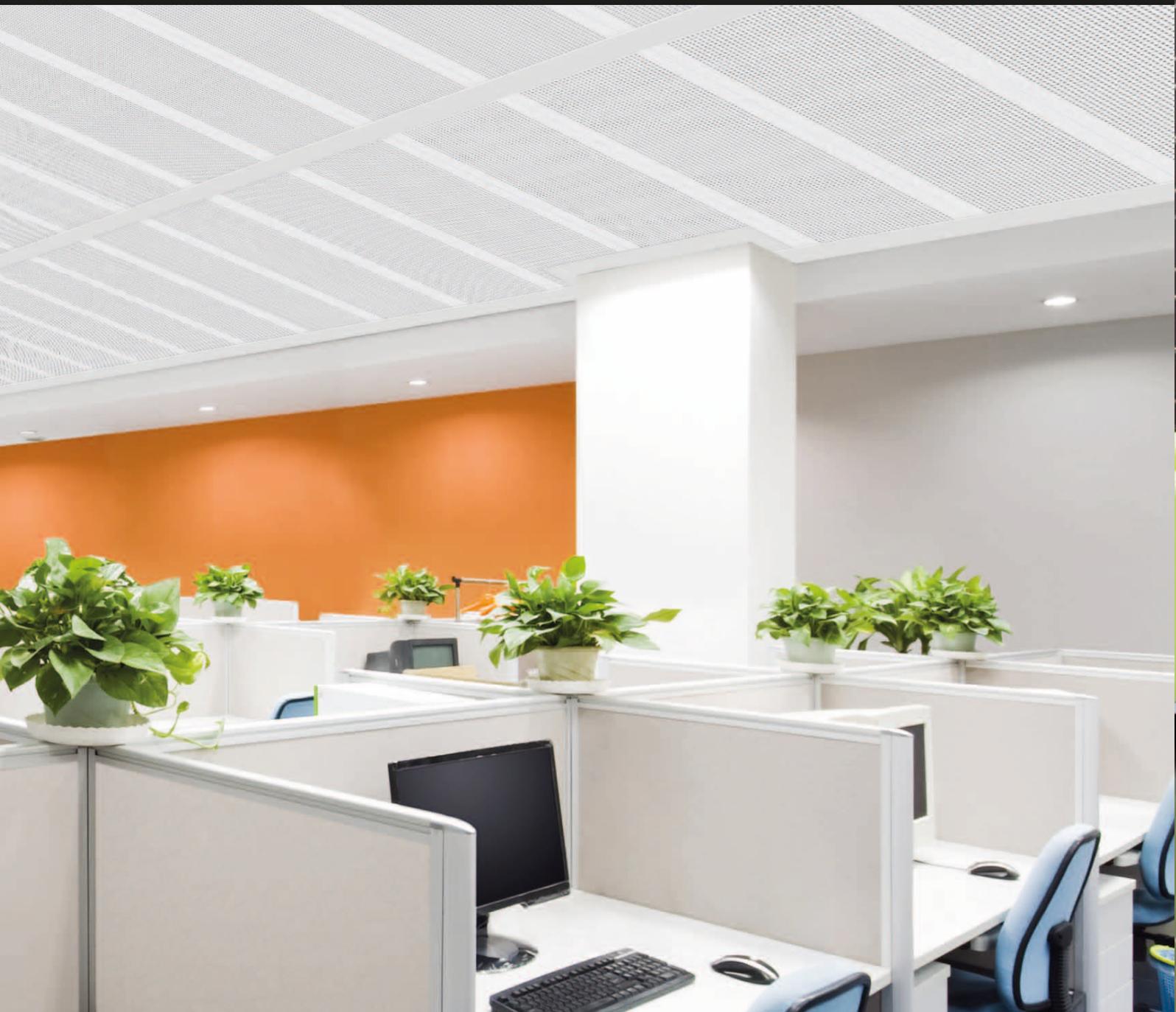
THERMATEX Varioline metal

THERMATEX Varioline metal ceilings can provide excellent room acoustics and optimum sound attenuation. In addition, due to the tiles density and airflow resistance the mineral ceilings tiles remain clean over the long-term.

With THERMATEX Varioline you choose the colour and pattern of your ceiling.

■ Application areas

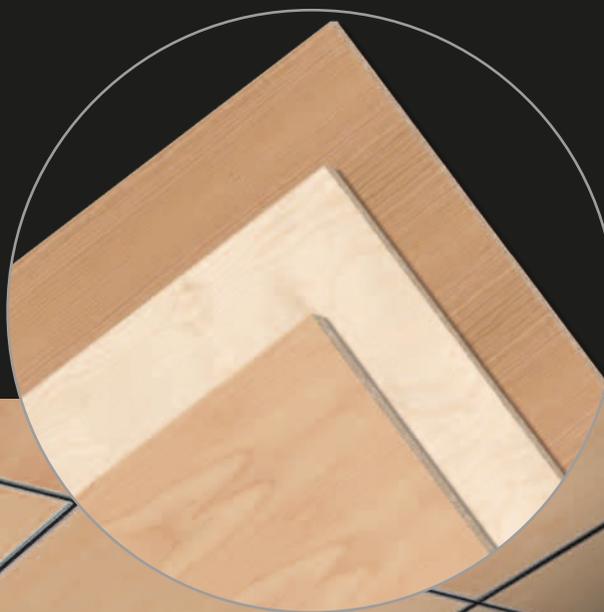
- Open plan offices
- Meeting rooms
- Canteens
- Class rooms
- Corridors
- Halls and auditoriums
- Conference rooms
- Service counter areas
- Dining halls
- Foyers
- Airports





THERMATEX Varioline wood

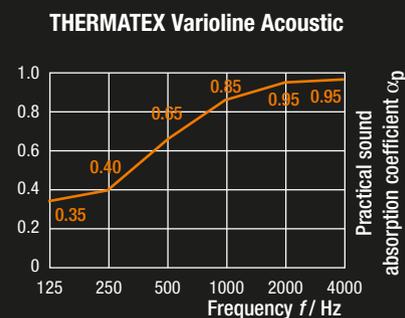
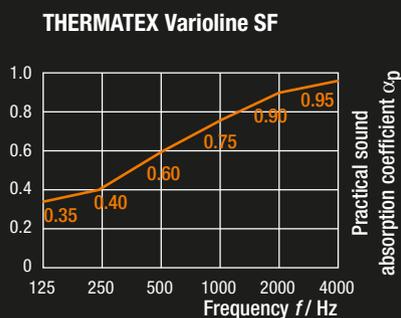
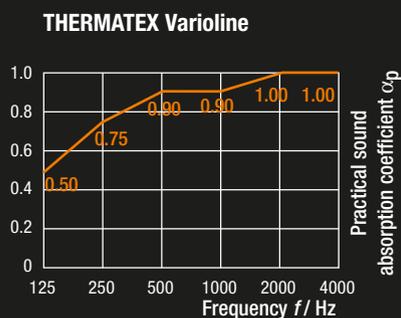
If the architecture requires the warm, homely feel of a wood ceiling, but also has the highest fire protection and acoustic requirements, a THERMATEX Varioline mineral ceiling in wood-look is the right choice. The mineral ceiling tiles achieve their design with a high quality fleece that is printed with your desired wood finish.



THERMATEX	Wood finishes			Edge configuration					Technical data					
	Systems	Thickness/weight	Format	SK	VT-S15/24	VT-S15F	SF	AW/SK	Sound absorption (EN ISO 11654)	Sound attenuation (EN 20140-9 / EN ISO 10848)	Building material class (EN 13501-1)	Fire resistance (EN 13501-2)	Humidity resistance	Thermal conductivity (DIN 52612 / EN 12667)
Varioline	C	19 mm (3.0 kg/m ²)	600 x 600, 625 x 625	✓	✓	✓			$\alpha_w = 0.95$ $NRC = 0.90$	$D_{n,f,w} = 28$ dB	A2-s1,d0	REI 30 - REI 90	95% RH	0.040 W/mK
Varioline SF	C	24 mm (8.4 kg/m ²)	600 x 600, 625 x 625				✓		$\alpha_w = 0.65$ (H) $NRC = 0.70$	$D_{n,c,w} = 38$ dB	A2-s1,d0	REI 30	95% RH	0.052-0.057 W/mK
Varioline Acoustic	F, I	19 mm (4.6 kg/m ²)	1200-1800 x 300					✓	$\alpha_w = 0.65$ (H) $NRC = 0.70$	$D_{n,c,w} = 40$ dB	A2-s1,d0	REI 30	95% RH	0.052-0.057 W/mK

Other variations available on request.

■ Sound absorption values for:





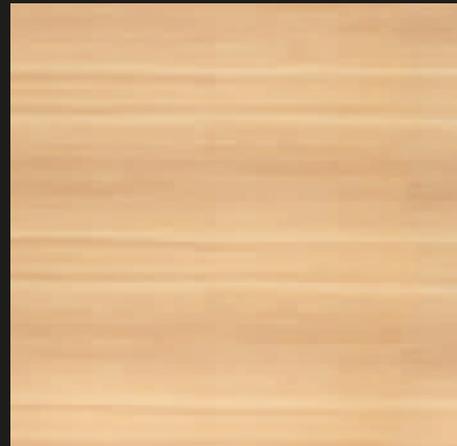
■ Ash



■ Birch



■ Cherry (US)



■ Larch



■ Cherry (European)



■ Oak

THERMATEX Varioline wood

THERMATEX Varioline has outstanding technical fire protection performance. Acoustic requirements can also be easily fulfilled, avoiding the need for additional absorbing overlays. The installation of THERMATEX Varioline mineral ceilings in wood-look is a simple and quick process to provide an impressive finish.

■ Application areas

- Individual offices
- Director's offices
- Meeting rooms
- Waiting rooms
- Corridors
- Halls and auditoriums
- Conference rooms
- Foyers





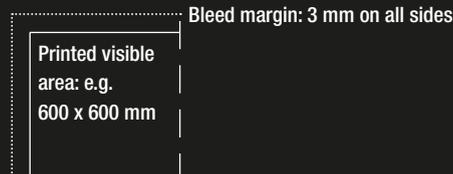
THERMATEX Varioline motif

Individual ceiling design

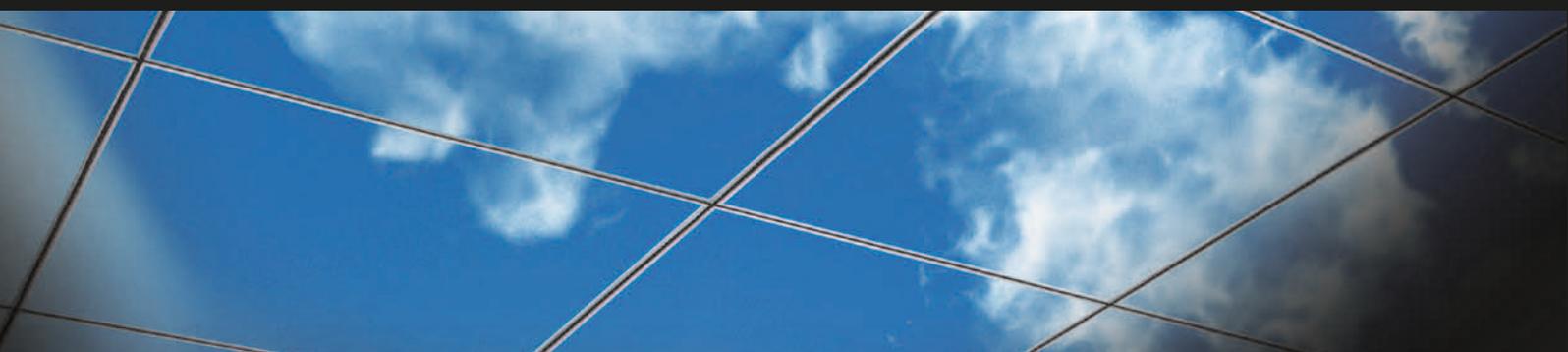
In addition to the different wood finished mineral tiles available, the ceiling can also be individually customised (e.g. with company logos, corporate colours, custom images and patterns and in all 4c-colour printing colour tones). For architects and designers, this opens up new, undreamt of design possibilities.

The realisation of your design wishes is simple. For individual printing, provide us with the required motif as a printable file.

Graphic requirements



- Printable graphics files: .tif, .jpg, .eps. in appropriate sizes
- Printable PDF files in x3 standard
- Resolution min. 200 dpi
- Alternative: vector files
- 3 mm bleed margin on all sides

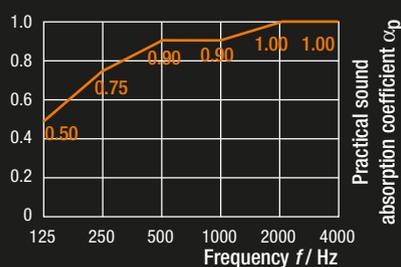


THERMATEX	Various finishes			Edge configuration					Technical data					
	Systems	Thickness/weight	Format	SK	VT-S15/24	VT-S15F	SF	AW/SK	Sound absorption (EN ISO 11654)	Sound attenuation (EN 20140-9 / EN ISO 10848)	Building material class (EN 13501-1)	Fire resistance (EN 13501-2)	Humidity resistance	Thermal conductivity (DIN 52612 / EN 12667)
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Varioline SF	C	24 mm (8.4 kg/m ²)	600 x 600, 625 x 625				✓		$\alpha_w = 0.65$ (H) NRC = 0.70	$D_{n,c,w} = 38$ dB	A2-s1,d0 or C-s1,d0 (depending on motif)	REI 30	95% RH	0.052-0.057 W/mK
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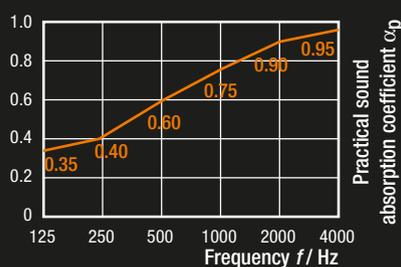
Other variations available on request.

■ Sound absorption values for:

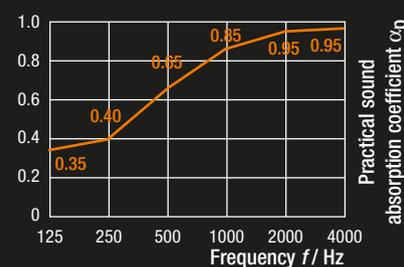
THERMATEX Varioline



THERMATEX Varioline SF



THERMATEX Varioline Acoustic





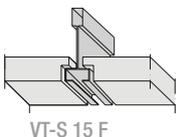
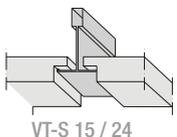
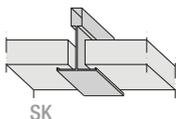
Printed ceiling tiles with

- different images
- different logos
- different patterns
- all tones within the 4c-colour scale



THERMATEX Varioline

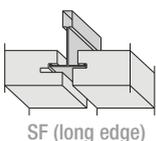
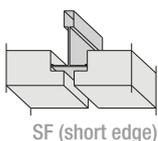
Edge configurations



SYSTEM C – Exposed system

System C utilises the suspension grid as an exposed element in the ceiling design. Square edged (SK) ceiling tiles give a flush visual appearance and recessed edged (VT) ceiling tiles emphasise the grid and the modular appearance of the ceiling. The quick and easy installation and simple access for maintenance make AMF system C a very efficient construction system. Numerous international approvals and test certificates demonstrate the exceptional performance of this ceiling construction.

Edge configurations



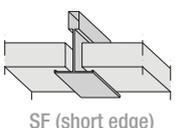
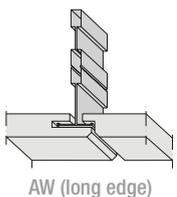
SYSTEM SF – System with shadow edge

With System SF, the suspension grid is completely concealed by the special edge detail with a 7 mm shadow gap.

This enables a very homogenous appearance to be achieved, which is especially effective with THERMATEX Varioline mineral ceilings in wood-look.

Installation remains simple: The tiles are inserted from below the ceiling. This results in a minimal void depth (from 75 mm) and is ideally suited for use in renovation work.

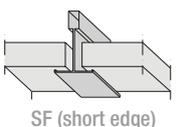
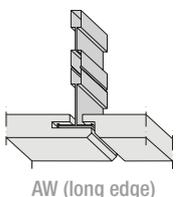
Edge configurations



SYSTEM F – Free span system

System F as a free spanning system can span up to 2.50 m, making it the ideal solution for corridors. The tiles are supported on both sides by wall connections and so with few joints has a smooth, monolithic appearance. System F is quick and efficient both by installation and maintenance as the ceiling tiles, depending on construction type, are demountable allowing full access to the ceiling void.

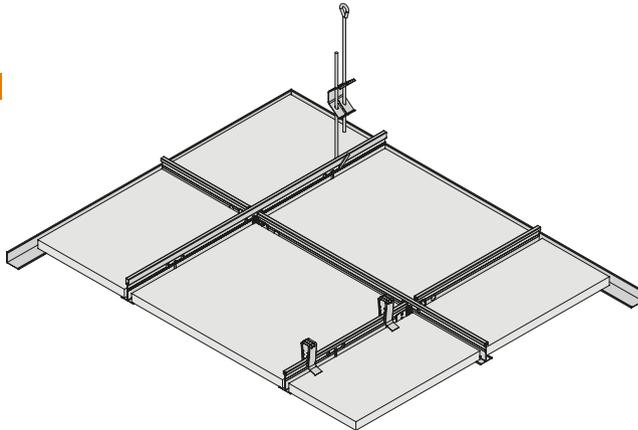
Edge configurations



SYSTEM I – Parallel system

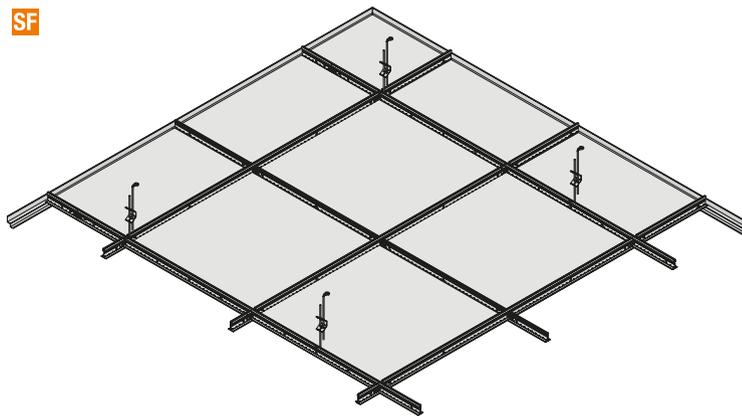
System I is a parallel ceiling construction with exposed main profiles which can be adapted to the architecture and module of the building. Lightweight partitions can be installed under the bandraster profiles, enabling flexible room partitioning. Lateral bracing is achieved with either exposed or concealed profiles. The ceiling tiles can be either demountable or non-accessible.

SYSTEM **C**



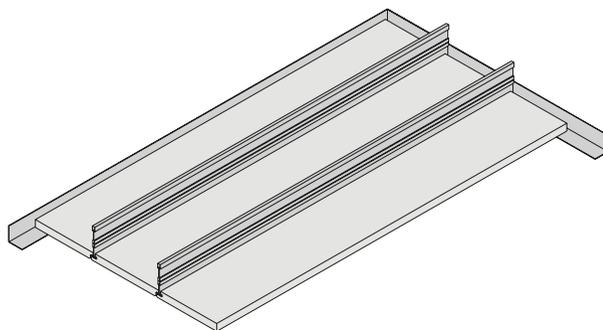
Exposed system

SYSTEM **SF**



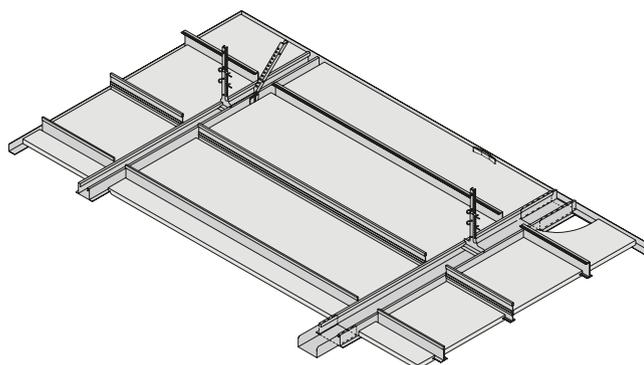
System with shadow edge

SYSTEM **F**



Free span construction

SYSTEM **I**



Parallel-bandraaster construction



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<http://www.amfceilings.com>



The Construction Production Directive (Council Directive 89/106/EEG), relevant for Suspended Ceilings, was converted to the European Standard EN 13964. It stipulates essential criteria for the CE labelling of ceiling products and ceilings systems.



The RAL - Quality Mark confirms the consistently high quality of the AMF mineral wool, as well as its biological solubility.



Knauf AMF GmbH & Co. KG is certified according to ISO 9001 and ISO 14001.

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