

PERFORMANCE CEILINGS
More scope for innovation



MATERIAL & DESIGN
PROGRAMME PART 6

MODERN ARCHITECTURE



■ Prof. Karsten Tichelmann, Institute of Dry Lining and Light Construction, Darmstadt, March 2006

Material and design ... in the context of this product catalogue, it is basically a question of what and why. Are both inevitably linked with each other and are they interdependent, or are both optional and additive?

Well, every "material" has its own identity; and we consider it differently in architecture. In this case, it is not the subjective feelings a material evokes in us, but much rather a selective and multi-dimensional consideration. The question regarding the real qualities and properties of a material and its "identity" is revealed to us in a five-fold manner: there is not only a technical dimension, but also an ethical, an economical, an ecological, and especially an aesthetic dimension.

A lot has been written about this diagnostic methodology; yet, almost everything remains incomplete and unsatisfactory. Technical properties can certainly be simply expressed in numbers and then compared with our specifications and our objectives. The same goes for the technological structures developed therefrom.

Ethics, economy and ecology are based on the prerequisite of a firm or fixed standpoint which we do not have or, at least, which we are unable to define bindingly. Thus, our assessment of these factors will remain relative and incomplete. Nonetheless, products of gypsum, of stone and minerals, of wood and of metal will have precisely these ecological, economical and even ethical qualities. Let's not forget that we are building for the future and not for eternity.

And aesthetics? Don't we combine esthetics and design in our language? With it, we connect our search for harmony in form, structure, appearance – and that preferably in a timeless manner. Always incomplete will remain an enumeration of objectifiable and yet latently subjective criteria of aesthetics and design. Yet, it can also be very simple. Like Emerson had already said: "It must be pleasing to look at. Now, let's look upward, to the ceiling."

There, we will see material and design – combined in AMF's understanding; they fuse together to become system worlds, and with the effect of creativity, they will develop into the playground "ceiling". We can discover new accents in clear forms, surfaces, multi-functionality, flexibility, individuality, technological properties, images. Appearance seems nearly unlimited and only depends on the willingness to design and, of course, on the capacity of making it come alive.

Or what did they teach us as student designers in the eighties of the last century so hard and fast "What really matters is what you will make of it". With just one major difference today: the prerequisites for suspended ceiling systems have become so much more richer ... in material and in design.

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This catalogue contains information about a range of different AMF ceiling materials and designs. For information about other AMF products for fire protection, acoustics, hygiene, integrated high-tech and the main ceilings programme, complete the fax-back form at the end of the catalogue or download from www.amfceilings.com



New dimensions in ceilings

The inspiration of the Renaissance, with ceilings as the epicentre of the room and a demonstration of architectural excellence. An eye-catching sign of prestige. AMF's goal is the blend in Renaissance aesthetics with performance ceilings.

■ The design of the ceiling starts with the choice of material. Knauf AMF has a ceiling range that includes mineral, metal, and wood, with each material having its own individual character. The classical appeal of smooth or textured mineral tiles; the cool strength of metal ceilings; and the beauty and variety of natural wood. The options of a wide range of panel sizes, edge details and suspension systems. The ideal choice for the creative designer to combine different materials to achieve the right effect.

FORUM



Ceilings with depth

■ New manufacturing processes and installation systems offer innovative solutions for imaginative design. Perforated, drilled and embossed surfaces. A range of RAL colours or special coloured effects. 3-D images created by suspension systems on several levels. Triangular or bespoke ceiling rafts. Vaulted or curved ceiling panels. Modern lighting technology can further enhance these design possibilities. Acoustic problems such as sound reflection and sound insulation can be resolved with elegant solutions (see Acoustics, catalogue 3).

With the AMF Material and Design programme you the designer can make a creative statement. The Forum AMF, our exhibition centre and conference showroom, can demonstrate a wide range of application and aesthetic possibilities. Come and see the AMF FORUM yourself.

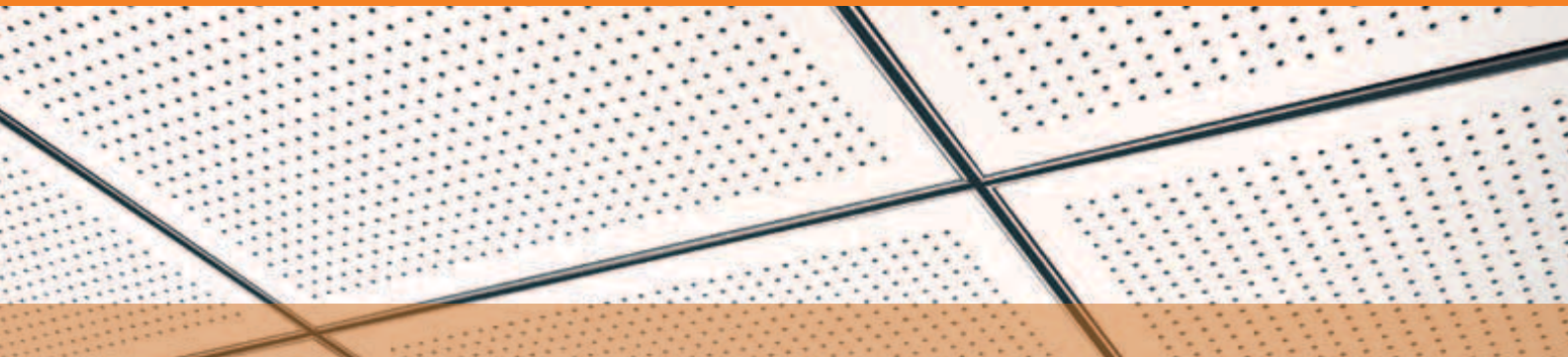


Your ideas count

■ The FORUM AMF is a new "state-of-the-art" facility that serves as a central meeting point and showroom for AMF's global client base. Apart from the latest in ceiling design, functions such as fire protection, sound insulation, health and hygiene can be experienced interactively. For architects and designers who consider that the ceiling should be far more than a horizontal barrier, the FORUM AMF will provide new ideas.

Support us in our objective to combine the aesthetic with the functional. Contact us with your ideas. The AMF Technical Service team will discuss your proposals and endeavour to implement creative solutions.

AMF SYMETRA



Moving to the regular perforated ceiling designs

Regular perforated ceiling panels open up many interesting design possibilities, Historically these types of aesthetics have only been available with gypsum or metal panels, now with the THERMATEX Symetra, AMF are able to offer perforated design options with mineral tiles. A wide variety of different panels have been created by varying hole diameters, spacing and modules, this provides designers with options to select an appropriate ceiling to suit many different spaces. In addition to the aesthetics, the Symetra range has excellent acoustic properties both

for sound absorption and sound attenuation. The use of mineral based panels provides other benefits compared to gypsum boards or metal tiles including fire protection of up to 90 minutes. With THERMATEX Symetra, AMF has increased the range with modern contemporary design combined with outstanding technical performance.



AMF THERMATEX SYMETRA



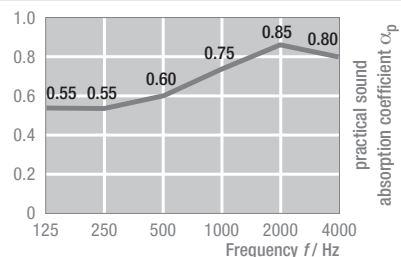
THERMATEX Symetra Rg 4-10

Hole diameter 4 mm
 Hole centres 10 mm
 Drilling: Round holes, surface drilled
 $A_0 = c. 12.6\%$ Open area

SYSTEM	C Exposed system, demountable ceiling *1 A Concealed system, panels demountable AW/GN / not demountable GN *1
Building material class	■ A2-s1,d0 as per EN 13501-1
Fire protection	■ F30-F90 as per DIN 4102 part 2 (according to test report)
Sound absorption	■ EN ISO 354
Humidity	■ up to 90% RH
Light reflectance	■ up to 87%
Thermal conductivity	■ $\lambda = 0.052 - 0.057$ W/mK as per DIN 52612
Dimensions	■ For prices as well as supply categories please consult the price list or www.amfceilings.com
Thickness/weight	■ 15 mm (c. 4.0 kg/m ²), 19 mm (c. 5.5 kg/m ²) (System A only available in 19 mm)
Colours	■ white similar to RAL 9010

Sound absorption

Values for Symetra Rg 4-10
 $\alpha_w = 0.70$
 as per EN ISO 11654
 $NRC = 0.70$
 as per ASTM C 423
 highly absorbing

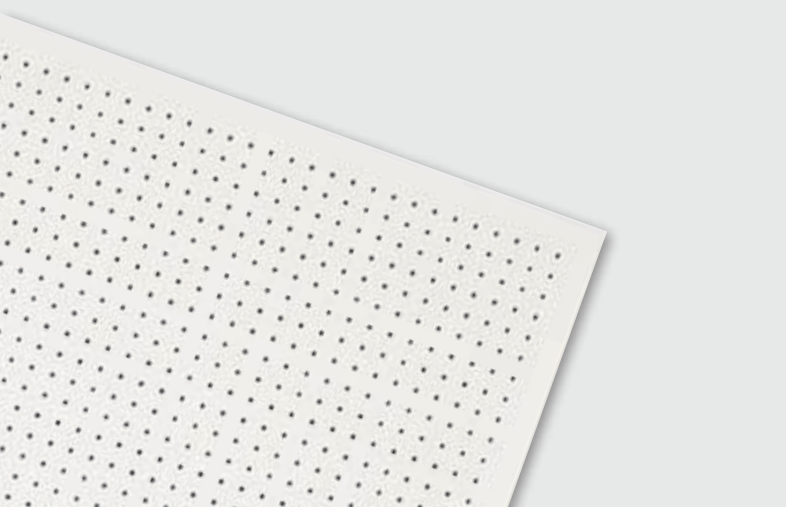


*1 Details, see System Solutions, Ceiling Systems Catalogue. See page 37 for general information.



THERMATEx Symetra Rg 2.5-10

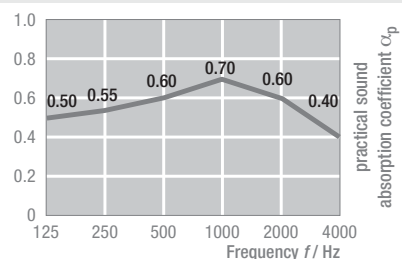
Hole diameter 2.5 mm
 Hole centres 10 mm
 Drilling: Round holes, surface drilled
 $A_0 = c. 4.9\%$ Open area



SYSTEM	<ul style="list-style-type: none"> C Exposed system, demountable ceiling ^{*1} A Concealed system, panels demountable AW/GN / not demountable GN ^{*1}
Building material class	A2-s1,d0 as per EN 13501-1
Fire protection	F30-F90 as per DIN 4102 part 2 (according to test report)
Sound absorption	EN ISO 354
Humidity	up to 90% RH
Light reflectance	up to 87%
Thermal conductivity	$\lambda = 0.052 - 0.057$ W/mK as per DIN 52612
Dimensions	For prices as well as supply categories please consult the price list or www.amfceilings.com
Thickness/weight	15 mm (c. 4.0 kg/m ²), 19 mm (c. 5.5 kg/m ²) (System A only available in 19 mm)
Colours	white similar to RAL 9010

Sound absorption

Values for Symetra Rg 2.5-10
 $\alpha_w = 0.60$
 as per EN ISO 11654
 $NRC = 0.65$
 as per ASTM C 423
 highly absorbing



^{*1} Details, see System Solutions, Ceiling Systems Catalogue. See page 37 for general information.

AMF THERMATEX SYMETRA



THERMATEX Symetra Rg 4-16

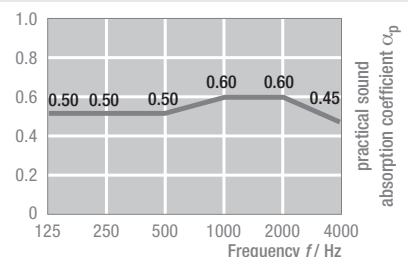
Hole diameter 4 mm
 Hole centres 16 mm
 Drilling: Round holes, surface drilled
 $A_0 = c. 4.9\%$ Open area



SYSTEM	C Exposed system, demountable ceiling ^{*1} A Concealed system, panels demountable AW/GN / not demountable GN ^{*1}
Building material class	A2-s1,d0 as per EN 13501-1
Fire protection	F30-F90 as per DIN 4102 part 2 (according to test report)
Sound absorption	BS EN ISO 354
Humidity	up to 90% RH
Light reflectance	up to 87%
Thermal conductivity	$\lambda = 0.052 - 0.057$ W/mK as per DIN 52612
Dimensions	For prices as well as supply categories please consult the price list or www.amfceilings.com
Thickness/weight	15 mm (c. 4.0 kg/m²), 19 mm (c. 5.5 kg/m²) (System A only available in 19 mm)
Colours	white similar to RAL 9010

Sound absorption

Values for
Symetra Rg 4-16
 $\alpha_w = 0.55$
 as per EN ISO 11654
 $NRC = 0.55$
 as per ASTM C 423



^{*1} Details, see System Solutions, Ceiling Systems Catalogue. See page 37 for general information.

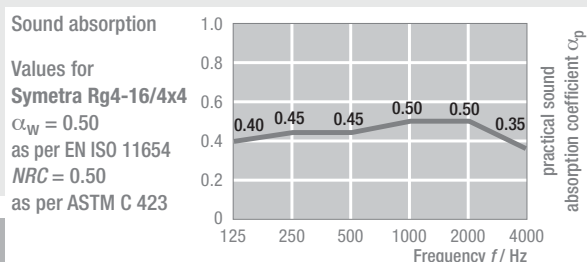


THERMATEx Symetra Rg 4-16 / 4x4 (hole blocks)

Hole diameter 4 mm
Hole centres 16 / 32 mm
Drilling: Round holes, surface drilled
 $A_0 = c. 3.5\%$ Open area



SYSTEM	<ul style="list-style-type: none"> C Exposed system, demountable ceiling ^{*1} F Free span system, with exposed or concealed suspension ^{*1} I Bandraster system, concealed cross sections ^{*1} A Concealed system, panels demountable AW/GN / not demountable GN ^{*1}
Building material class	A2-s1,d0 as per EN 13501-1
Fire protection	F30-F90 as per DIN 4102 part 2 (according to test report)
Sound absorption	BS EN ISO 354
Humidity	up to 90% RH
Light reflectance	up to 87%
Thermal conductivity	$\lambda = 0.052 - 0.057$ W/mK as per DIN 52612
Dimensions	For prices as well as supply categories please consult the price list or www.amfceilings.com
Thickness/weight	15 mm (c. 4.0 kg/m ²), 19 mm (c. 5.5 kg/m ²) (System F, I and A only available in 19 mm)
Colours	white similar to RAL 9010



^{*1} Details, see System Solutions, Ceiling Systems Catalogue. See page 37 for general information.

AMF THERMATEX SYMETRA



THERMATEX Symetra RS 15/20

Hole diameter 15 / 20 mm
 Hole centres irregular
 Drilling: Round holes,
 panel drilled through, optional black fleece backing
 $A_0 = c. 8.2\%$ Open area



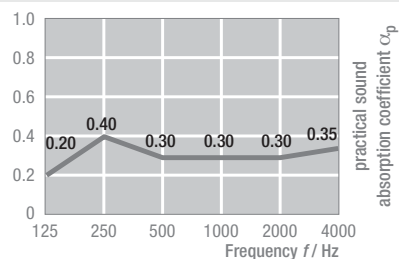
SYSTEM

C Exposed system, demountable ceiling ^{*1}

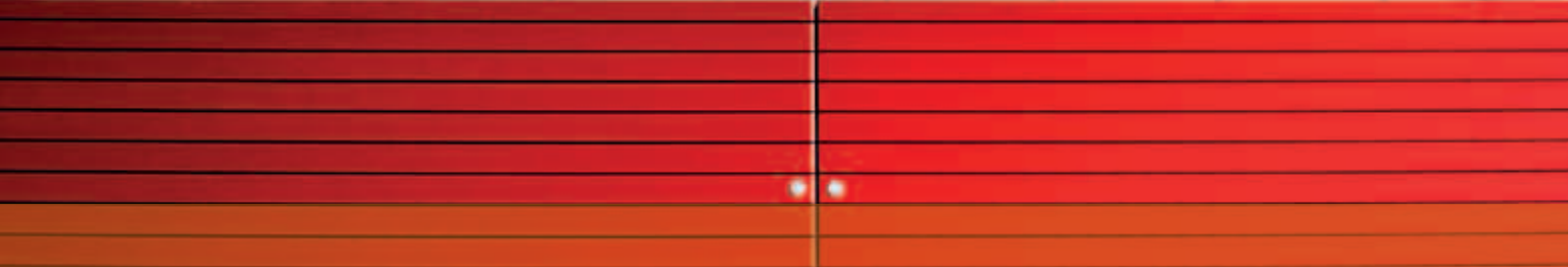
Building material class **■** A2-s1,d0 as per EN 13501-1
 Sound absorption **■** EN ISO 354
 Humidity **■** up to 90% RH
 Light reflectance **■** up to 87%
 Thermal conductivity **■** $\lambda = 0.052 - 0.057$ W/mK as per DIN 52612
 Dimensions **■** For prices as well as supply categories please consult the price list or www.amfceilings.com
 Thickness/weight **■** 19 mm (c. 5.5 kg/m²)
 Colours **■** white similar to RAL 9010

Sound absorption

Values for
Symetra RS 15/20
 $\alpha_w = 0.30$ (L)
 as per EN ISO 11654
NRC = 0.35
 as per ASTM C 423



^{*1} Details, see System Solutions, Ceiling Systems Catalogue.
 See page 37 for general information.





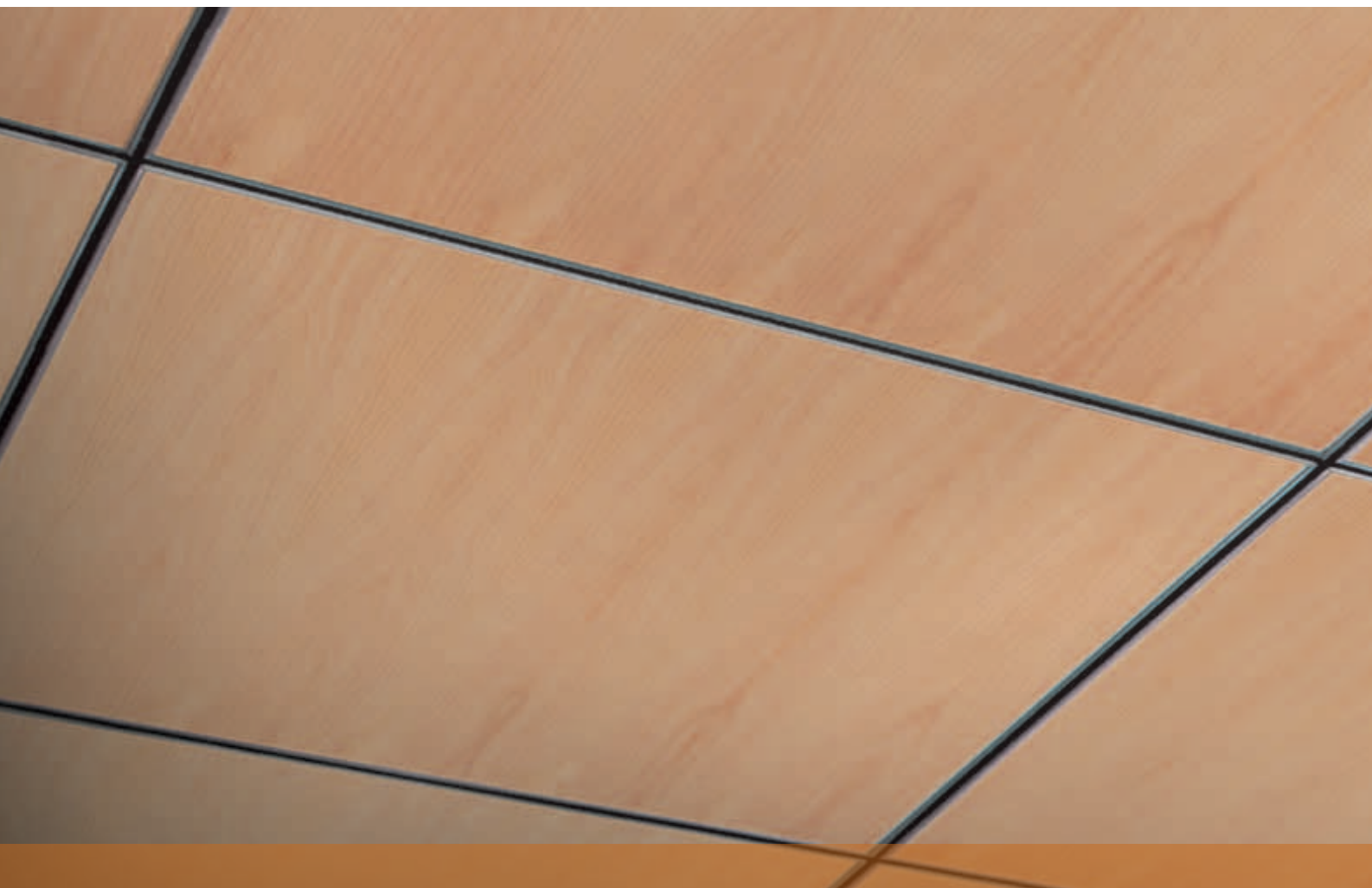
Ceiling design in a new light.

Create Atmosphere!

■ 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.

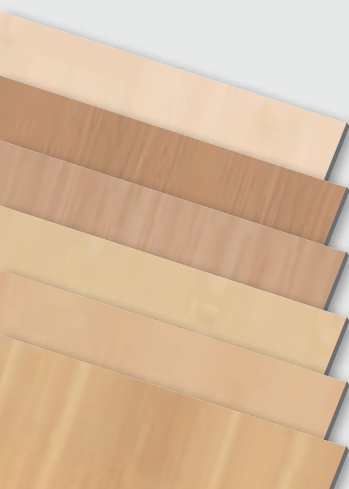
■ Knauf AMF presents the new product range THERMATEX Varioline. Design and function are united in a unique way, placing architectural ceiling design possibilities in a new light.







■ 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.




THERMATEX Varioline Wood

THERMATEX Varioline Wood is a high absorbent ceiling tile covered with a layer of various printed wood pattern fleeces. The combination of modern, bio-soluble mineral wool, perlite, clay and starch provides an excellent structural-physical performance exceptionally for the acoustic.





-  Birch
-  Cherry (US)
-  Oak
-  Ash
-  Cherry (European)
-  Larch



SYSTEM

 Exposed system, demountable ceiling ^{*1}


Building material class
Fire protection

 A2-s1,d0 as per EN 13501-1
 REI30 - REI90 as per EN 13501 part 2 (according to test report)

Sound absorption
Sound attenuation

 EN ISO 11654
 $D_{n,f,w} = 28$ dB as per EN 10848 (19 mm thickness, as per test certificate)


Humidity

 up to 95% RH


Thermal conductivity

 $\lambda = 0.040$ W/mK as per EN 12667


Dimensions

 600 x 600 mm, 625 x 625 mm

Thickness/weight

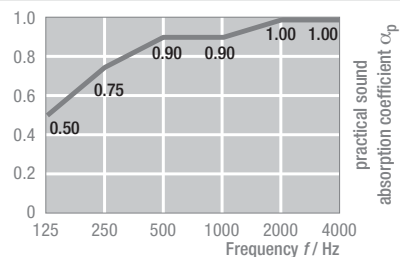
 19 mm (c. 3.0 kg/m²)

Colours

 Wood finishes

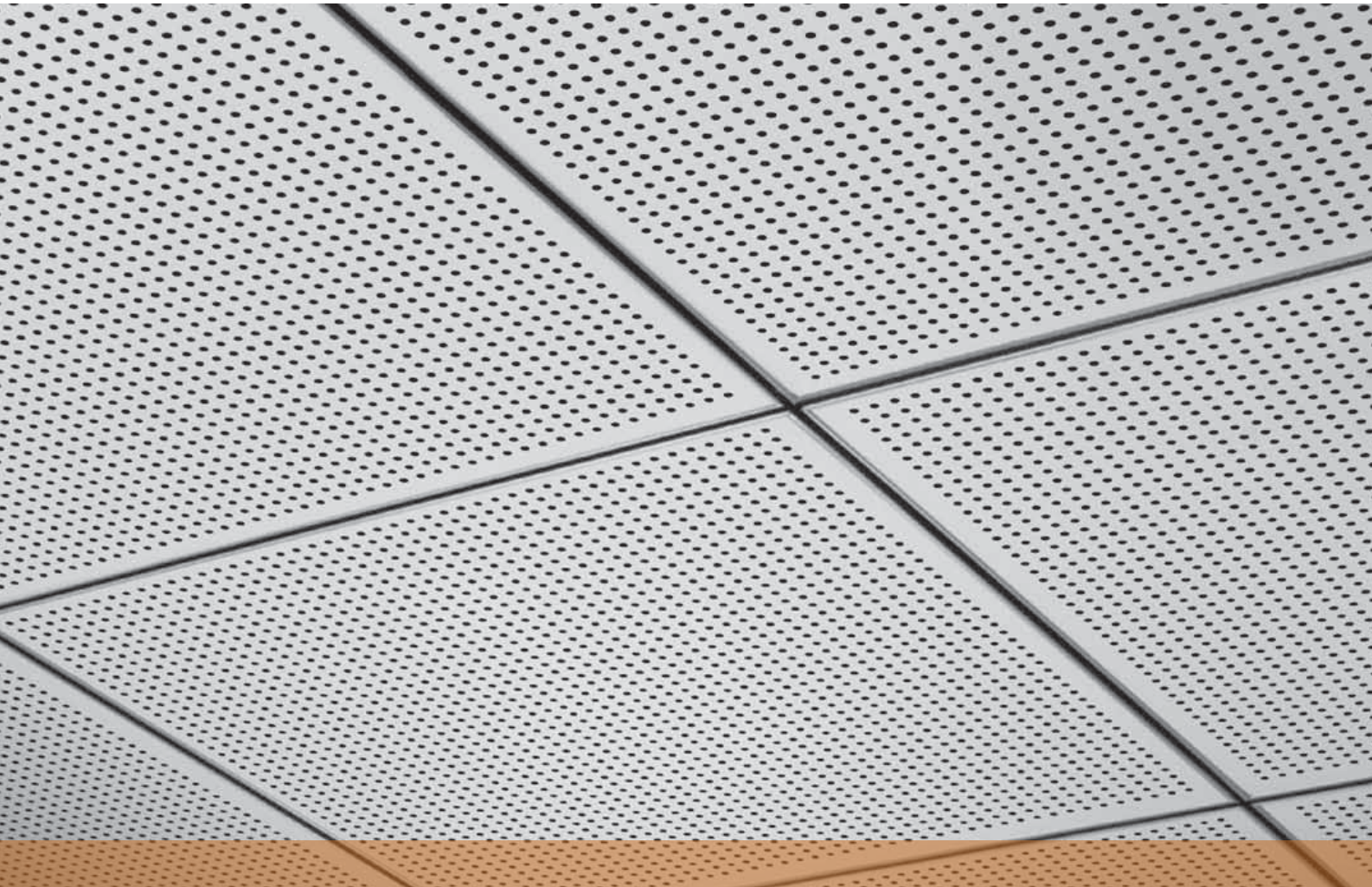
Sound absorption

Values for
**THERMATEX
Varioline Wood**
 $\alpha_w = 0.95$
as per EN ISO 11654
 $NRC = 0.90$
as per ASTM C 423
extremely absorbing



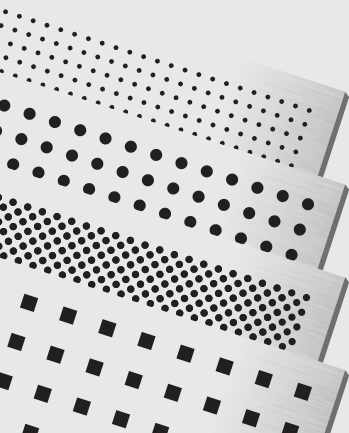
^{*1} Details, see System Solutions, Ceiling Systems Catalogue. See page 37 for general information.

THERMATEX Varioline



THERMATEX Varioline Metal

THERMATEX Varioline Metal is a highly absorbing acoustic mineral ceiling tile covered with a thin layer of fleece printed with various metal decors. The combination of modern, bio-soluble mineral wool, perlite, clay and starch provides an excellent structural-physical performance exceptionally for the acoustic.



Pattern A (Rg 1.0 - 3.0)

Pattern B (Rg 2.5 - 5.5)

Pattern C (Rg 1.5 - 2.8D)

Pattern D (Qg 3.0 - 8.5)

SYSTEM

c Exposed system, demountable ceiling ^{*1}

Building material class
Fire protection

A2-s1,d0 as per EN 13501-1
REI30 - REI90 as per EN 13501 part 2
(according to test report)

Sound absorption
Sound attenuation

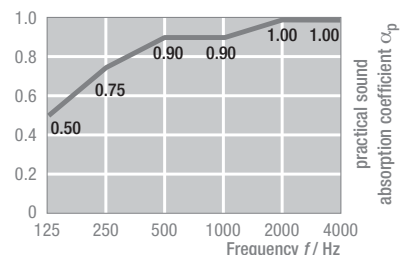
EN ISO 11654
 $D_{n,f,w} = 28$ dB as per EN 10848
(19 mm thickness, as per test certificate)

Humidity
Thermal conductivity
Dimensions
Thickness/weight
Colours

up to 95% RH
 $\lambda = 0.040$ W/mK as per EN 12667
600 x 600 mm, 625 x 625 mm
19 mm (c. 3.0 kg/m²)
Metal finishes white

Sound absorption

Values for
**THERMATEX
Varioline Metal**
 $\alpha_w = 0.95$
as per EN ISO 11654
 $NRC = 0.90$
as per ASTM C 423
extremely absorbing



*1 Details, see System Solutions, Ceiling Systems Catalogue.
See page 37 for general information.



THERMATEX Varioline Motif

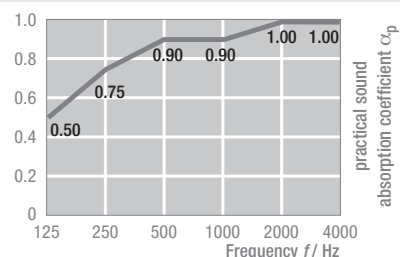
THERMATEX Varioline motif is a highly absorbing mineral fibre ceiling tile which can be individually customised (e.g. with company logos, corporate colours, custom images and patterns and in all 4c-colour printing colour tones). The combination of modern, bio-soluble mineral wool, perlite, clay and starch provides an excellent structural-physical performance exceptionally for the acoustic.



SYSTEM	C Exposed system, demountable ceiling ^{*1}
Building material class	A2-s1,d0 or C-s1,d0 as per EN 13501-1 (depending on motif)
Fire protection	REI30 - REI90 as per EN 13501 part 2 (according to test report)
Sound absorption	EN ISO 11654
Sound attenuation	$D_{n,f,w} = 28$ dB as per EN 10848 (19 mm thickness, as per test certificate)
Humidity	up to 95% RH
Thermal conductivity	$\lambda = 0.040$ W/mK as per EN 12667
Dimensions	600 x 600 mm, 625 x 625 mm
Thickness/weight	19 mm (c. 3.0 kg/m²)
Colours	Various finishes

Sound absorption

Values for
**THERMATEX
Varioline Motif**
 $\alpha_w = 0.95$
as per EN ISO 11654
 $NRC = 0.90$
as per ASTM C 423
extremely absorbing



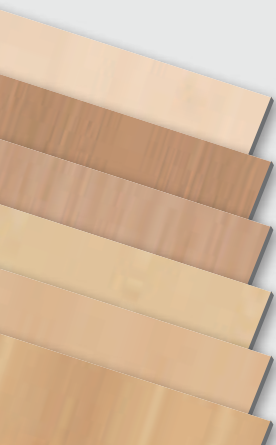
^{*1} Details, see System Solutions, Ceiling Systems Catalogue. See page 37 for general information.

THERMATEX Varioline

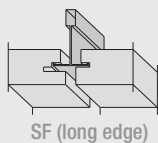
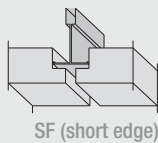


THERMATEX Varioline SF Wood

THERMATEX Varioline SF Wood is a highly absorbing mineral fibre ceiling tile covered with a thin layer of fleece printed with various wood decors. The special edge detail requires minimal void as the tile is installed from below. The profiles are fully covered leaving a 7 mm shadow edge only. The combination of modern, bio-soluble mineral wool, perlite, clay and starch provides an excellent structural-physical performance exceptionally for the acoustic.



- Birch
- Cherry (US)
- Oak
- Ash
- Cherry (European)
- Larch



SYSTEM

■ Exposed system, demountable ceiling ^{*1}

Building material class
Fire protection

■ A2-s1,d0 nach DIN EN 13501-1
■ REI30 as per EN 13501 part 2 (according to test report)

Sound absorption
Sound attenuation

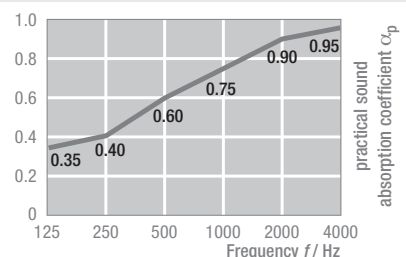
■ EN ISO 11654
■ $D_{n,c,w} = 38$ dB as per EN 20140-9 (24 mm thickness, as per test certificate)

Humidity
Thermal conductivity
Dimensions
Thickness/weight
Colours

■ up to 95% RH
■ $\lambda = 0.052 - 0.057$ W/mK as per DIN 52612
■ 600 x 600 mm, 625 x 625 mm
■ 24 mm (c. 8.4 kg/m²)
■ Wood finishes

Sound absorption

Values for
**THERMATEX
Varioline SF Wood**
 $\alpha_w = 0.65$ (H)
as per EN ISO 11654
 $NRC = 0.70$
as per ASTM C 423
highly absorbing

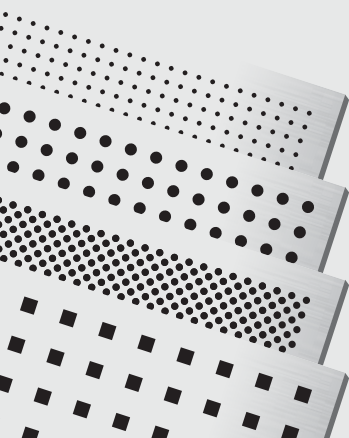


*1 Details, see System Solutions, Ceiling Systems Catalogue. See page 37 for general information.



THERMATEX Varioline SF Metal

THERMATEX Varioline SF Metal is a high absorbent acoustic mineral ceiling tile covered with a layer of fleece printed with various metal decors. The special edge detail requires minimal void depth as the tile is installed from below. Profiles are fully covered leaving a 7mm shadow edge only. The combination of modern, bio-soluble mineral wool, perlite, clay and starch provides an excellent structural-physical performance exceptionally for the acoustic.



Plattern A (Rg 1.0 - 3.0)

Plattern B (Rg 2.5 - 5.5)

Plattern C (Rg 1.5 - 2.8D)

Plattern D (Qg 3.0 - 8.5)

SYSTEM

C Exposed system, demountable ceiling ^{*1}

Building material class
Fire protection

A2-s1,d0 as per EN 13501-1
REI30 as per EN 13501 part 2 (according to test report)

Sound absorption
Sound attenuation

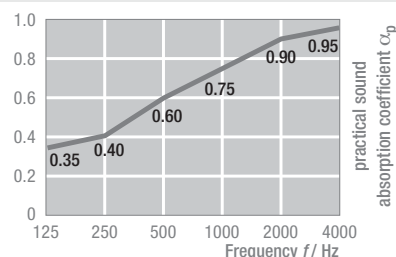
EN ISO 11654
 $D_{n,c,w} = 38$ dB as per EN 20140-9 (24 mm thickness, as per test certificate)

Humidity
Thermal conductivity
Dimensions
Thickness/weight
Colours

up to 95% RH
 $\lambda = 0.052 - 0.057$ W/mK as per DIN 52612
600 x 600 mm, 625 x 625 mm
24 mm (c. 8.4 kg/m²)
Metal finishes white

Sound absorption

Values for
THERMATEX
Varioline SF Metal
 $\alpha_w = 0.65$ (H)
as per EN ISO 11654
 $NRC = 0.70$
as per ASTM C 423
highly absorbing



^{*1} Details, see System Solutions, Ceiling Systems Catalogue. See page 37 for general information.

THERMATEX Varioline



THERMATEX Varioline SF Motif

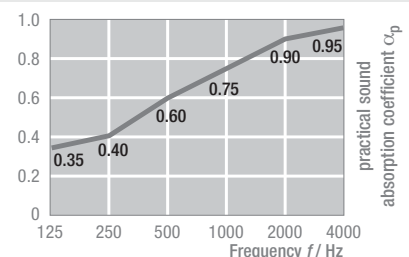
THERMATEX Varioline SF Motif is a highly absorbing mineral fibre ceiling tile which can be individually customised (e.g. with company logos, corporate colours, custom images and patterns and in all 4c-colour printing colour tones). The special edge detail requires minimal void as the tile is installed from below. The profiles are fully covered, leaving only a 7 mm shadow edge. The combination of modern, bio-soluble mineral wool, perlite, clay and starch provides an excellent structural-physical performance exceptionally for the acoustic.



SYSTEM	c Exposed system, demountable ceiling ^{*1}
Building material class	■ A2-s1,d0 or C-s1,d0 as per EN 13501-1 (depending on motif)
Fire protection	■ REI30 as per EN 13501 part 2 (according to test report)
Sound absorption	■ EN ISO 11654
Sound attenuation	■ $D_{n,c,w} = 38$ dB as per EN 20140-9 (24 mm thickness, as per test certificate)
Humidity	■ up to 95% RH
Thermal conductivity	■ $\lambda = 0.052 - 0.057$ W/mK as per DIN 52612
Dimensions	■ 600 x 600 mm, 625 x 625 mm
Thickness/weight	■ 24 mm (c. 8.4 kg/m ²)
Colours	■ Various finishes

Sound absorption

Values for
**THERMATEX
 Varioline SF Motif**
 $\alpha_w = 0.65$ (H)
 as per EN ISO 11654
 $NRC = 0.70$
 as per ASTM C 423
 highly absorbing

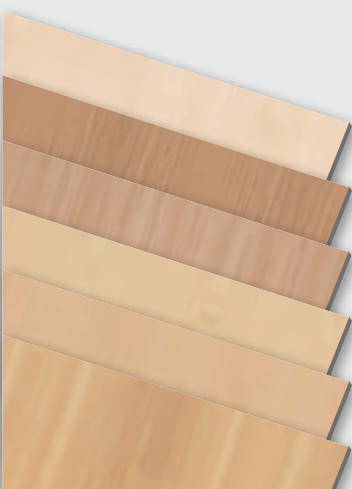


^{*1} Details, see System Solutions, Ceiling Systems Catalogue. See page 37 for general information.



Varioline Acoustic Wood

THERMATEX Varioline Acoustic Wood is a highly absorbing ceiling tile covered with a layer of various printed wood pattern fleeces providing excellent sound absorption. The combination of modern, bio-soluble mineral wool, perlite, clay and starch provides an excellent structural-physical performance exceptionally for the acoustic.



- Birch
- Cherry (US)
- Oak
- Ash
- Cherry (European)
- Larch

SYSTEM

- F Free span system with exposed or concealed suspension ^{*1}
- I Banderaster system, concealed cross sections ^{*1}

Building material class
Fire protection

- A2-s1,d0 as per EN 13501-1
- REI30 as per EN 13501 part 2 (according to test report)

Sound absorption
Sound attenuation

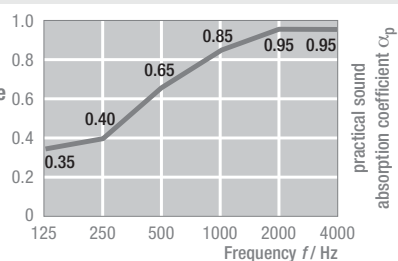
- EN ISO 11654
- $D_{n,c,w} = 40$ dB as per EN 20140-9 (in concealed system, 19 mm thickness, as per test certificate)

Humidity
Thermal conductivity
Dimensions
Thickness/weight
Colours

- up to 95% RH
- $\lambda = 0.052 - 0.057$ W/mK as per DIN 52612
- plank sizes up 1800 mm
- 19 mm (c. 4.6 kg/m²)
- Wood finishes

Sound absorption

Values for
**THERMATEX Varioline
Acoustic Wood**
 $\alpha_w = 0.65$ (H)
as per EN ISO 11654
 $NRC = 0.70$
as per ASTM C 423
highly absorbing



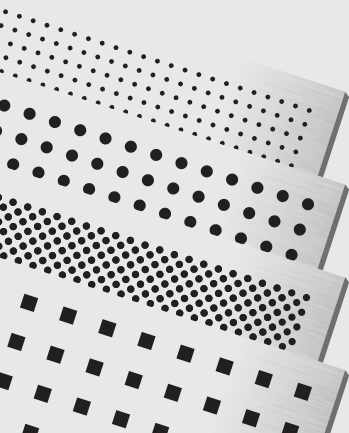
^{*1} Details, see System Solutions, Ceiling Systems Catalogue. See page 37 for general information.

THERMATEX Varioline



THERMATEX Varioline Acoustic Metal

THERMATEX Varioline Acoustic Metal is a highly absorbing Acoustic ceiling tile covered with a thin layer of fleece and printed with a metal decor pattern. The combination of modern, bio-soluble mineral wool, perlite, clay and starch provides an excellent structural-physical performance exceptionally for the acoustic.



■ Plattern A (Rg 1.0 - 3.0)

■ Plattern B (Rg 2.5 - 5.5)

■ Plattern C (Rg 1.5 - 2.8D)

■ Plattern D (Qg 3.0 - 8.5)

SYSTEM

- F** Free span system with exposed or concealed suspension ^{*1}
- I** Bandrastrer system, concealed cross sections ^{*1}

Building material class
Fire protection

- A2-s1,d0 as per EN 13501-1
- REI30 as per EN 13501 part 2 (according to test report)

Sound absorption
Sound attenuation

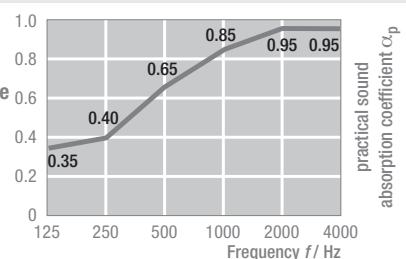
- EN ISO 11654
- $D_{n,c,w} = 40$ dB as per EN 20140-9 (in concealed system, 19 mm thickness, as per test certificate)

Humidity
Thermal conductivity
Dimensions
Thickness/weight
Colours

- up to 95% RH
- $\lambda = 0.052 - 0.057$ W/mK as per DIN 52612
- plank sizes up 1800 mm
- 19 mm (c. 4.6 kg/m²)
- Metal finishes white

Sound absorption

Values for
**THERMATEX Varioline
Acoustic Metal**
 $\alpha_w = 0.65$ (H)
as per EN ISO 11654
 $NRC = 0.70$
as per ASTM C 423
highly absorbing



^{*1} Details, see System Solutions, Ceiling Systems Catalogue. See page 37 for general information.



THERMATEX Varioline Acoustic Motif

THERMATEX Varioline Acoustic Motif is a highly absorbing mineral fibre ceiling tile which can be individually customised (e.g. with company logos, corporate colours, custom images and patterns and in all 4c-colour printing colour tones). The combination of modern, bio-soluble mineral wool, perlite, clay and starch provides an excellent structural-physical performance exceptionally for the acoustic.



SYSTEM

- F** Free span system with exposed or concealed suspension ^{*1}
- I** Bandraaster system, concealed cross sections ^{*1}

Building material class

- A2-s1,d0 or C-s1,d0 as per EN 13501-1 (depending on motif)**

Fire protection

- REI30 as per EN 13501 part 2 (according to test report)**

Sound absorption

- EN ISO 11654**

Sound attenuation

- $D_{n,c,w} = 40$ dB as per EN 20140-9 (in concealed system, 19 mm thickness, as per test certificate)**

Humidity

- up to 95% RH**

Thermal conductivity

- $\lambda = 0.052 - 0.057$ W/mK as per DIN 52612**

Dimensions

- plank sizes up 1800 x 300 mm**

Thickness/weight

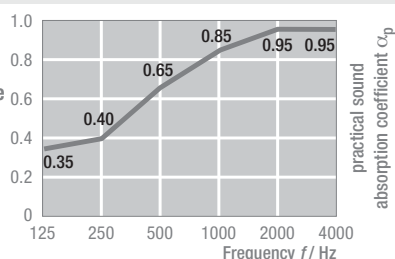
- 19 mm (c. 4.6 kg/m²)**

Colours

- Various finishes**

Sound absorption

Values for
**THERMATEX Varioline
Acoustic Motif**
 $\alpha_w = 0.65$ (H)
as per EN ISO 11654
 $NRC = 0.70$
as per ASTM C 423
highly absorbing



^{*1} Details, see System Solutions, Ceiling Systems Catalogue. See page 37 for general information.

METAL SYMETRA



METAL Symetra

AMF METAL Symetra provides maximum freedom of design, with an extensive range of colour and perforation options, METAL Symetra provides huge flexibility for the visual design of a ceiling. With panels manufactured from Steel or aluminum, a wide variety of acoustic performances can also be achieved, with outstanding sound absorption achievable from the perforated options.

MATERIAL: galvanized steel
Polyester powder coating (electrostatically applied)
Organic based coating (coil coating)

Aluminium design is available on request.

The manufacturing tolerances of our metal tiles are in compliance with TAIM.

SYSTEM

C Exposed system, demountable ceiling *1
A Concealed system, panels demountable AW/GN / not demountable GN *1

Sound absorption
 Humidity

EN ISO 354
 up to 90% RH
 (varying humidity with temperatures up to 30°C)

Dimensions

For prices as well as supply categories please consult the price list or www.amfceilings.com

Thickness
 Colours

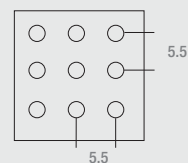
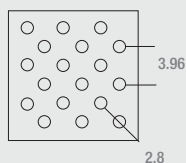
0.5 - 0.7 mm
 white similar to RAL 9010, further colours on request

Different sound absorption performances are available with different perforation and inlay options.

*1 Details, see System Solutions, Ceiling Systems Catalogue. See page 37 for general information.



Perforations may depend on width of tiles.
Other perforation options and panel sizes
are available on request.



		plain, without perforation	Hole diameter 1.5 mm 22% open area diagonal pitch	Hole diameter 2.5 mm 16% open area square pitch
Clip in metal, bevel edge		600 x 600 mm 625 x 625 mm	600 x 600 mm	600 x 600 mm 625 x 625 mm
Metal VT 24		600 x 600 mm	600 x 600 mm	600 x 600 mm 625 x 625 mm
Metal VT 15		600 x 600 mm	600 x 600 mm	600 x 600 mm
Metal VT-S 24		625 x 625 mm	-	625 x 625 mm
Metal VT-S 15		600 x 600 mm 625 x 625 mm	-	600 x 600 mm 625 x 625 mm
Metal SK		600 x 600 mm 625 x 625 mm	600 x 600 mm	600 x 600 mm 625 x 625 mm

AMF METAL CEILINGS



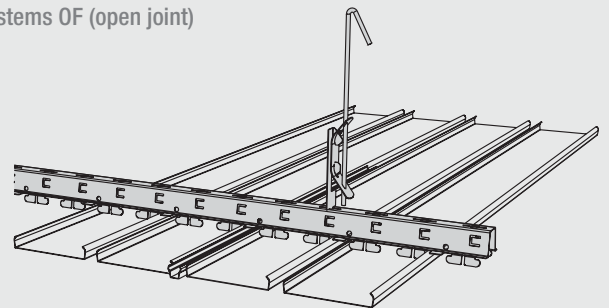
AMF Aluminium Panels

AMF's aluminium panel ceilings are available in a systems with open joints or closed joints between the panels. A filling piece is also available. Panels can be perforated to provide high values of acoustical absorption

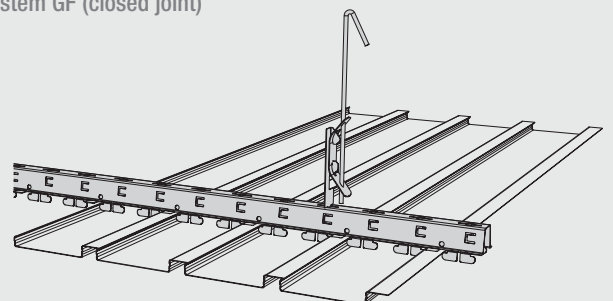
In order to improve the acoustic absorption the panels can get perforated.

SYSTEM	<ul style="list-style-type: none"> ■ OF, Open Joint between the panels ■ GF, Closed joint between the panels
Humidity	<ul style="list-style-type: none"> ■ up to 70% RH
Dimensions	<ul style="list-style-type: none"> ■ Module 100 ■ M85 H13 / M85 H20 ■ Further module dimensions available on request
Thickness	<ul style="list-style-type: none"> ■ 0.4 to 0.5 mm depending on material
Colours	<ul style="list-style-type: none"> ■ white similar to RAL 9010, ■ further colours available on request
Perforations	<ul style="list-style-type: none"> ■ available on request

AMF Systems OF (open joint)



AMF System GF (closed joint)





AMF Open cell ceiling

AMF open cell ceilings are modular grid ceilings that are available in aluminium or steel. The ceilings can be installed either on system C exposed grid T15/24 or by using a special grid construction. Cover panels are available on request.

SYSTEM

- Open cell ceiling T15/24 (standard system C grid)
- Open cell ceiling 12 (special grid construction)

Humidity

- up to 70% RH

Dimensions

- 600 x 600 / 600 x 1200 mm

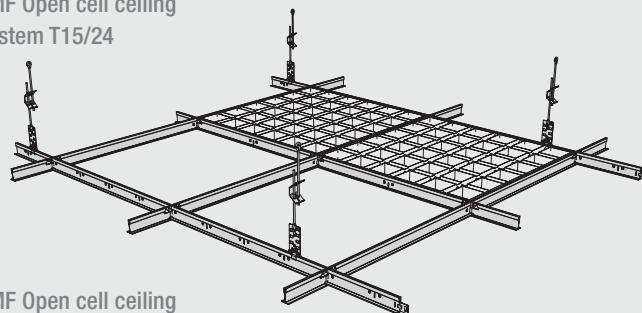
Thickness

- System T15/24: ca. 6.0 kg/m²
- System 12: ca. 4.0 kg/m²

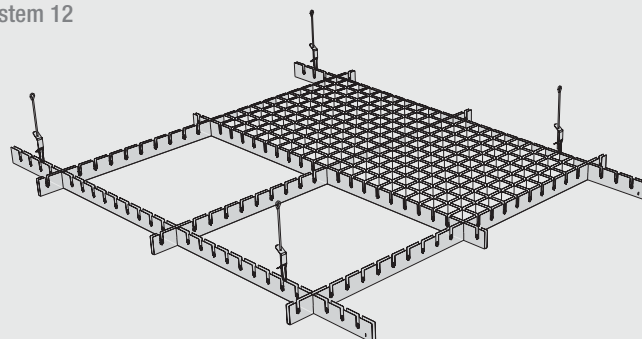
Colours

- white similar to RAL 9010, grey similar to RAL 9006, other colours available on request

AMF Open cell ceiling
System T15/24



AMF Open cell ceiling
System 12



METAL SYMETRA

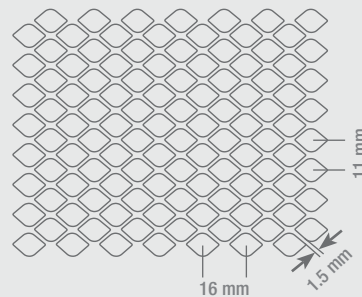


AMF Expanded metal ceilings

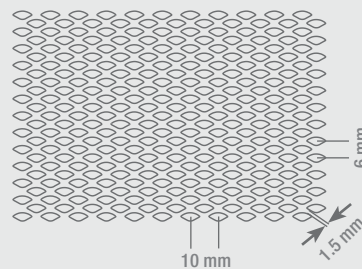
AMF Expanded metal ceilings elegantly combine function and design. They are manufactured from zinc coated expanded metal and are available in a range of different sizes. An acoustic fleece for enhanced sound absorption is available on request.

SYSTEM	<ul style="list-style-type: none"> ■ System C Exposed grid, VT Edges
Humidity	<ul style="list-style-type: none"> ■ Up to 70% RH
Dimensions	<ul style="list-style-type: none"> ■ 600 x 600 mm, 625 x 625 mm ■ Other sizes available on request
Thickness	<ul style="list-style-type: none"> ■ 1.00 mm
Colours	<ul style="list-style-type: none"> ■ white similar to RAL 9010, ■ grey similar to RAL 9006, ■ other colours available on request
Honeycomb	<ul style="list-style-type: none"> ■ small, classic ■ other sizes on request

Honeycomb classic



Honeycomb small



See page 37 for general information.



AMF Design Solutions



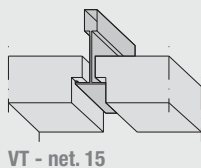
THERMATEX net.4 / net.8

AMF THERMATEX net.4 and net.8 are open cell tiles at the cutting edge of ceiling design, creating distinctive interiors in combination with high acoustic performance.

SYSTEM
Building material class
Sound absorption
Humidity
Dimensions

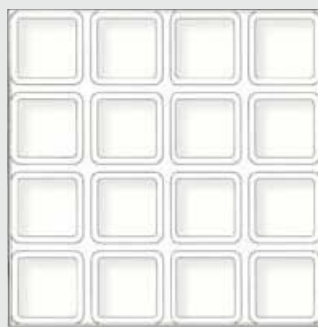
- C** Exposed system, demountable ceiling ^{*1}
- A2-s1, d0** as per EN 13501-1
- EN ISO 354**
- Up to 90% RH**
- For prices as well as supply categories please consult the price list or www.amfceilings.com**
- 24 mm**
- white similar to RAL 9010**

Thickness
Colours



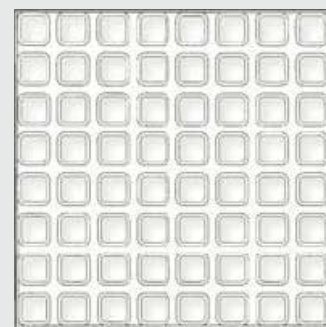
VT - net. 15

net.4



109
for 600 x 600 mm module

net.8

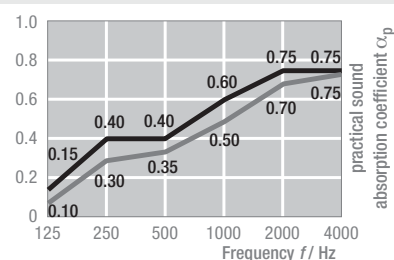


47
for 600 x 600 mm module

Sound absorption

Values for net.4 (24 mm)
 $\alpha_w = 0.45$ (H) / $NRC = 0.45$
absorbing

Values for net.8 (24 mm)
 $\alpha_w = 0.50$ (H) / $NRC = 0.55$
absorbing

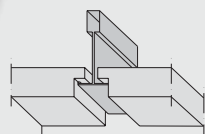
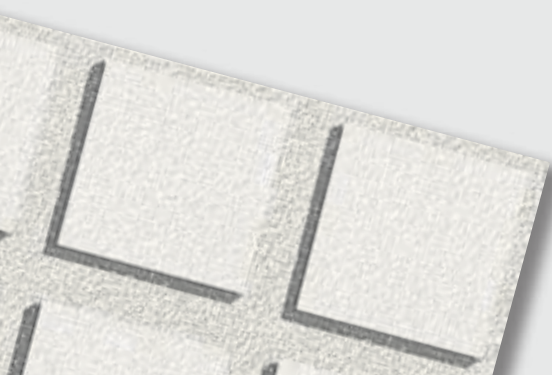


^{*1} Details, see System Solutions, Ceiling Systems Catalogue. See page 37 for general information.



THERMATEX Ranura

AMF THERMATEX Ranura with a Fine Stratos finish, gives a three-dimensional ceiling design with geometric squares that blend with the grid system.



VT - S 15

SYSTEM

C Exposed system, demountable ceiling ^{*1}

Building material class
Sound absorption
Humidity
Thermal conductivity
Dimensions

A2-s1, d0 as per EN 13501-1
EN ISO 354
Up to 90% RH
 $\lambda = 0.052 - 0.057$ W/mK as per DIN 52612
For prices as well as supply categories please consult the price list or www.amfceilings.com

Thickness/weight
Colours

19 mm (ca. 5.7 kg/m²)
white similar to RAL 9010

^{*1} Details, see System Solutions, Ceiling Systems Catalogue. See page 37 for general information.

AMF DESIGN SOLUTIONS





AMF Line wall absorbers

AMF Line wall absorbers are available in three types:

■ Wall absorber AMF Line **Modern**

AMF Line Modern consists of a mineral tile with an aluminium frame. The fleece-coated surface of AMF Line Modern is white as standard, but can be ordered in any colour or printed with custom graphics.

■ Wall absorber AMF Line **Style**

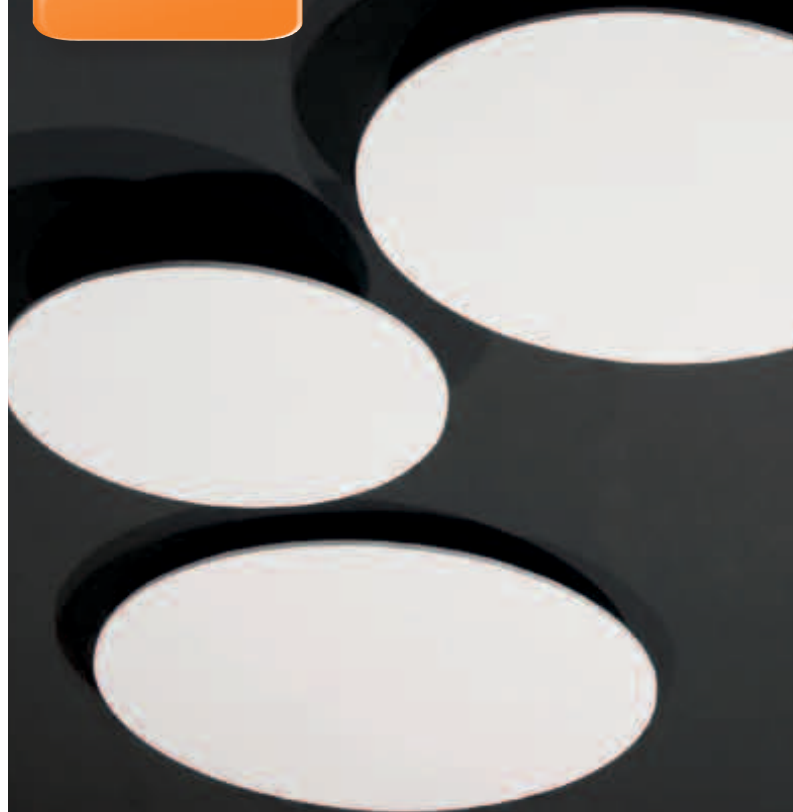
AMF Line Style is an individually printable fabric covering with an aluminium frame. The fabric covering to be easily removed and exchanged for a new design easily.

■ Wall absorber AMF Line **Classic**

AMF Line Classic is a modular wall absorber system suitable for large areas. The sophisticated profile system enables the wall absorber to be constructed to the required length on site.

Quickly and easily installed.

NO FRAME



THERMATEX Sonic element

■ THERMATEX Sonic **element** is a frameless acoustic ceiling raft. The AMF THERMATEX mineral base, together with a special Acoustic Range acoustic fleece surface, ensure high sound absorption together with a smooth appearance.

THERMATEX Sonic **element** is an ideal way to effectively provide a comfortable acoustic environment. It can provide an optimal solution for rooms in which the acoustic problems are to be solved in a stylish and creative way. THERMATEX Sonic **element** rafts are an ideal solution for areas with a high-class architectural design, such as foyers, reception areas, restaurants and modern office environments, where design and acoustics can be brought together. The fixing point positions as well as the frameless solid edges, enhance the elegant appearance of the raft, making it resemble a floating sail.

Further detailed information on the THERMATEX Sonic arc range is available in the THERMATEX Sonic brochure!

AMF PROJECTS

GERMANY



ST. URSULA SCHOOL, WÜRZBURG

- | | |
|-------------|--|
| Project | ■ St. Ursula School, Würzburg, Germany |
| Architect | ■ Hentschel + Schulz Architects |
| AMF-Product | ■ Rafts THERMATEX Sonic arc / 1910 x 1180 mm |



GERMANY



HAIR SALON KERLER, FÜRSTENFELDBRUCK

Project	■ Hair Salon Kerler, Fürstfeldbruck, Deutschland
Architect	■ Metrik Architects, Fr. Dipl. Ing. Barbara Stammberger
AMF-Product	■ THERMATEX Sonic element



AMF PROJECTS

GERMANY



OFFICE BUILDING ASKANISCHER PLATZ, BERLIN

- Produkt ■ THERMATEX Sonic sky flat raft
- Construction ■ THERMATEX Alpha white
- Quantity ■ 3,500 m²



■ DRAFT SPECIFICATIONS AND TECHNICAL INFORMATION

For copies of draft specifications please contact AMF on:

Telephone: +49 (0) 85 52 / 422 - 0
Fax: +49 (0) 85 52 / 422 - 32
E-mail: info@knaufamf.de

Full technical information, assessments, test reports, samples etc. are available on request. We recommend you consult AMF representatives for further technical information.

You can receive technical advice and a full range of supporting documentation including certificates of conformity, product data sheets and installation guides. Please contact us for advice about any of the AMF Systems featured in this brochure.

■ IMPORTANT NOTICE

Due to reproduction processes colours shown in this catalogue may differ from the actual product colour. Product selection should always be made using AMF samples. All details and technical information stated in this brochure or other publicity material referring to AMF ceiling systems are based on test reports obtained under laboratory conditions. 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.

All technical data is subject to change without prior notice and is governed by AMF Terms and Conditions of Sale.

The most current technical and product information is available on our website www.amfceilings.com.

This catalogue supersedes all previous editions. Errors and omissions excepted. Printing errors excepted.

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<p>■ 02, Lot Ben Heddadi Said BP 16002 CHERAGA</p>	<p>Tel.: 21 36 87 00 Fax: 21 36 77 17 e-mail: mohamed.hocine@knaufalgerie.com web: www.knaufamfalgerie.com</p>

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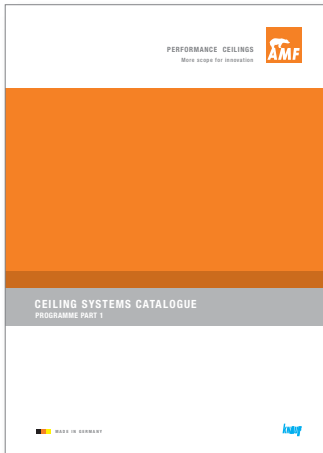
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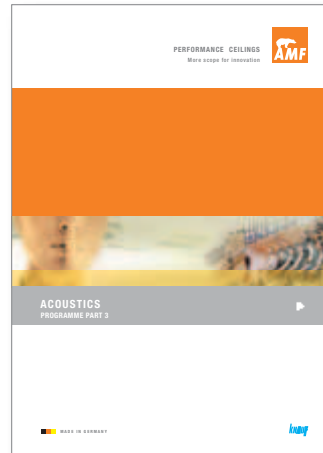
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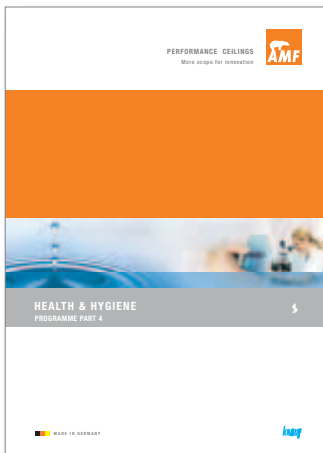
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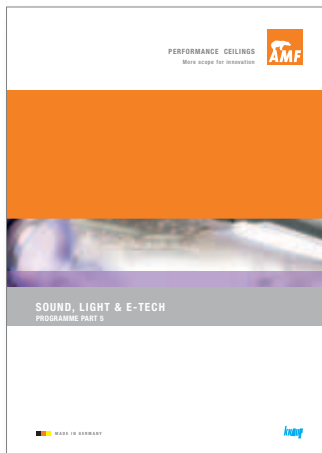
Part 2



Part 3



Part 4



Part 5

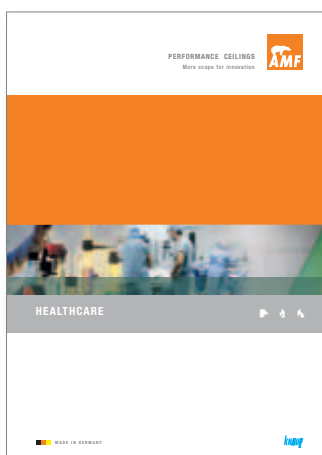


Part 6

AMF APPLICATIONS



Part 1



Part 2

All Programme catalogues can be obtained by sending in the fax reply card or by download from www.amfceilings.com



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



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