



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.

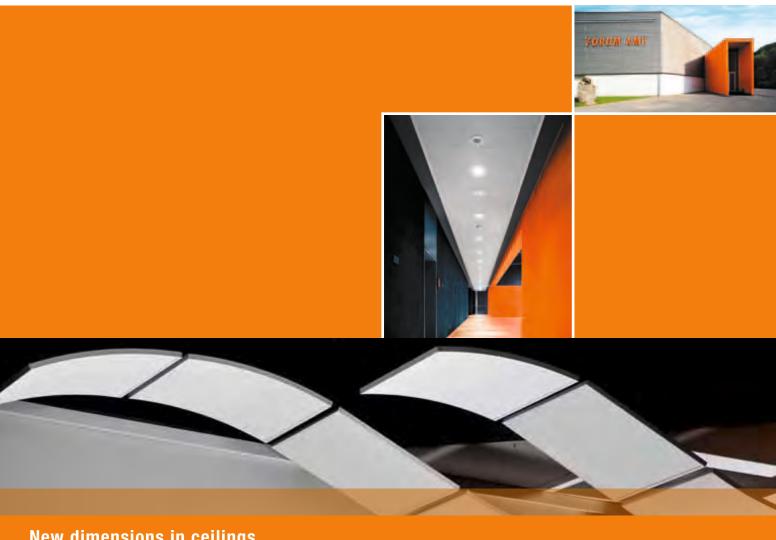
Or what did they teach us as student designers in the eighties of the last century so hard and fast "What really matters is what you will make of it".

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 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



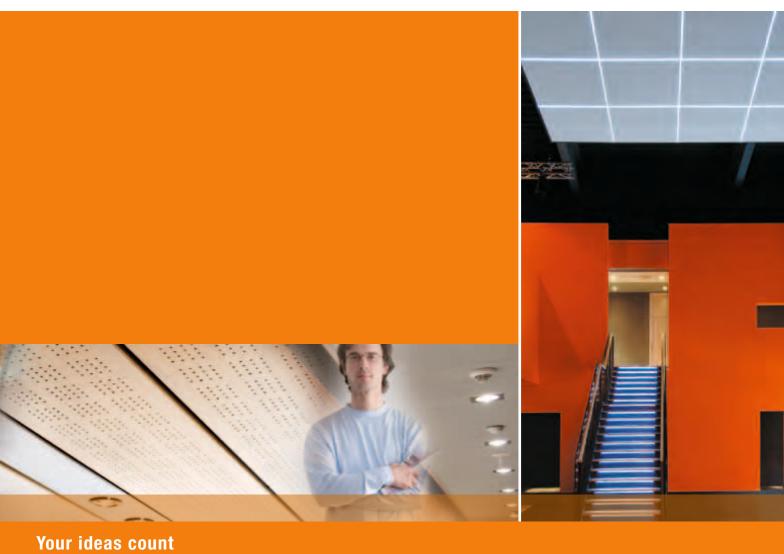


Ceilings with depth

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 (see Sound, Light & E-tech, catalogue 5). 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 AMF Forum, our exhibition centre and conference showroom, can demonstrate a wide range of application and aesthetic possibilities. Come and see the AMF FORUM yourself.





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



Hole diameter 4 mm SYSTEM Hole centres 10 mm Drilling: Round holes, Surface drilled A₀= c. 12.6% Open area Building material class Fire protection Sound absorption Humidity Light reflectance Thermal conductivity Dimensions Thickness/weight Colours Sound absorption Values for $\alpha_{\rm W} = 0.70$ NRC = 0.70

Exposed system, demountable ceiling *1 Concealed system,

A2-s1,d0 as per EN 13501-1

F30-F90 as per DIN 4102 part 2 (according to test report)

panels demountable AW/GN / not demountable GN *1

EN ISO 354

up to 90% RH

up to 87%

 $\stackrel{\cdot}{\lambda} = 0.052$ - 0.057 W/mK as per DIN 52612 For prices as well as supply categories

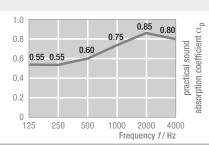
please consult the price list or www.amfceilings.co.uk

15 mm (c. 4.0 kg/m²), 19 mm (c. 5.5 kg/m²)

(System A only available in 19 mm)

white similar to RAL 9010

Symetra Rg 4-10 as per EN ISO 11654 as per ASTM C 423 highly absorbing







Hole diameter 2.5 mm Hole centres 10 mm Drilling: Round holes, surface drilled A₀= c. 4.9% Open area

SYSTEM

Exposed system, demountable ceiling *1 Concealed system,

panels demountable AW/GN / not demountable GN $^{\ast 1}$

Building material class Fire protection Sound absorption

Humidity Light reflectance

Thermal conductivity Dimensions

Thickness/weight

Colours

A2-s1,d0 as per EN 13501-1

F30-F90 as per DIN 4102 part 2 (according to test report)

EN ISO 354 up to 90% RH

up to 87%

 $\lambda = 0.052$ - 0.057 W/mK as per DIN 52612 For prices as well as supply categories please consult the price list or www.amfceilings.co.uk

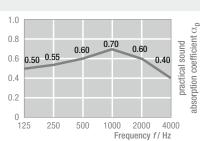
15 mm (c. 4.0 kg/m²), 19 mm (c. 5.5 kg/m²) (System A only available in 19 mm)

white similar to RAL 9010

Values for Symetra Rg2.5-10 $\alpha_{\text{W}} = 0.60$ as per EN ISO 11654 NRC = 0.65

Sound absorption

0.4 0.2 as per ASTM C 423 highly absorbing



AMF THERMATEX SYMETRA







SYSTEM

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

Hole diameter 4 mm Hole centres 16 / 32 mm Drilling: Round holes, surface drilled A₀= c. 3.5% Open area

Exposed system, demountable ceiling *1 Free span system, with exposed or concealed suspension *1 Bandraster system, concealed cross sections *1 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.co.uk

15 mm (c. 4.0 kg/m²), 19 mm (c. 5.5 kg/m²) Thickness/weight (System F, I and A only available in 19 mm)

white similar to RAL 9010 Colours

Sound absorption 1.0 absorption coefficient $lpha_{\mathsf{n}}$ 0.8 Values for practical sound Symetra Rg4-16/4x4 0.6 0.40 0.45 $\alpha_{\text{W}} = 0.50$ 0.4 as per EN ISO 11654 NRC = 0.500.2 as per ASTM C 423 2000 4000 Frequency f / Hz

AMF THERMATEX SYMETRA



THERMATEX Symetra Rg 8-12/32

Hole diameter 8 / 12 mm Hole centres 32 mm Drilling: Round holes, Surface drilled A₀= c. 8.0% Open area

SYSTEM Exposed system, demountable ceiling *1 Concealed system, panels demountable AW/GN / not demountable GN *1 Building material class Sound absorption A2-s1,d0 as per EN 13501-1 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 For prices as well as supply categories Dimensions please consult the price list or www.amfceilings.co.uk Thickness/weight 15 mm (c. 4.0 kg/m²), 19 mm (c. 5.5 kg/m²) (System A only available in 19 mm) white similar to RAL 9010 Colours

Sound absorption 1.0 0.8 Values for Symetra Rg 8-12/32 0.6 $\alpha_{\rm W} = 0.60$ (M) 0.35 0.4 as per EN ISO 11654 NRC = 0.650.2 as per ASTM C 423





THERMATEX Symetra RS 15/20

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



*1 Details, see System Solutions, Ceiling Systems Catalogue. See page 29 for general information.

SYSTEM

Building material class Sound absorption Humidity Light reflectance Thermal conductivity Dimensions

Thickness/weight Colours

Exposed system, demountable ceiling *1

A2-s1,d0 as per EN 13501-1 EN ISO 354 up to 90% RH

up to 87%

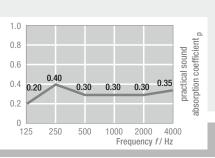
\$\lambda = 0.052 - 0.057 \text{ W/mK} as per DIN 52612\$

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

19 mm (c. 5.5 kg/m²) white similar to RAL 9010



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



AMF WOOD SYMETRA

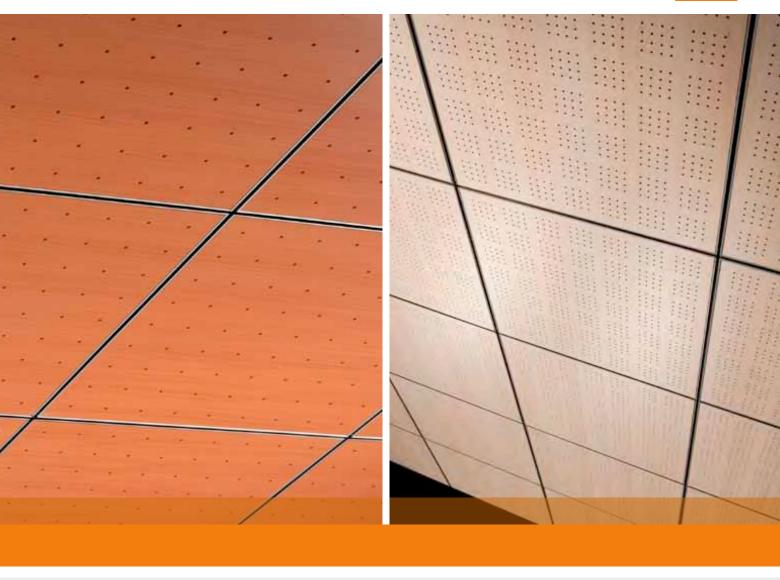


be produced in either plain or perforated designs.

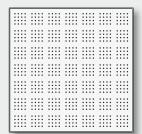
We can also offer individual solutions, the options presented in this brochure are only a small sample from the huge range of available finishes, please contact us with your specific requirements. All wood finishes are high quality reproductions.

as per BS EN ISO 354 Sound absorption Values depend on perforation. Humidity Up to 70 % RH Dimensions 600 x 600 mm, further sizes on request Thickness/weight 12 mm (c. 10.5 kg/m²) Face pattern wood reproduction, plain colours (see sample illustrations)

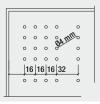








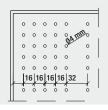
Hole diameter Ø 4 mm Hole centres 16 mm, 4 x 4 Open area 3.5%



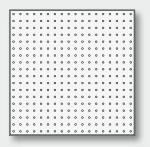
AMF 02 (hole blocks)



Hole diameter Ø 4 mm Hole centres 16 mm, 5 x 5 Open area 3.8%



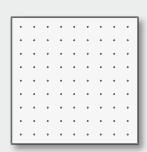
AMF 03



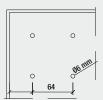
Hole diameter Ø 8 mm Hole centres 32 mm Open area 4.9%



AMF 04



Hole diameter Ø 6 mm Hole centres 64 mm Open area 0.7%



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 Exposed system, demountable ceiling *1 Concealed system, panels demountable AW/GN / not demountable GN *1 Sound absorption EN ISO 354 Humidity 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.co.uk Thickness 0.5 - 0.7 mm Colours white similar to RAL 9010, further colours on request

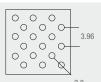
Different sound absorption performances are available with different perforation and inlay options.

^{*}¹ Details, see System Solutions, Ceiling Systems Catalogue. See page 29 for general information.





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





		2.8	5.5
	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
Metall VT 24	600 x 600 mm	600 x 600 mm	600 x 600 mm 625 x 625 mm
Metall VT 15	600 x 600 mm	600 x 600 mm	600 x 600 mm
Metall VT-S 24	625 x 625 mm	-	625 x 625 mm
Metall VT-S 15	600 x 600 mm 625 x 625 mm	-	600 x 600 mm 625 x 625 mm
Metall SK	600 x 600 mm 625 x 625 mm	600 x 600 mm	600 x 600 mm 625 x 625 mm

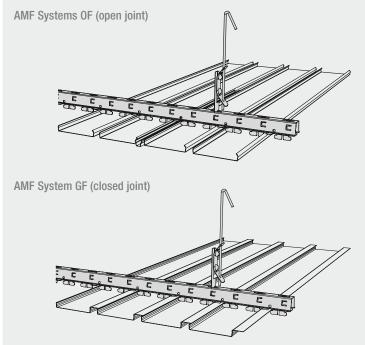
AMF METAL CEILINGS



AMF'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 OF, Open Joint between the panels GF, Closed joint between the panels Humidity up to 70% RH Dimensions Module 100 M85 H13 / M85 H20 Further module dimensions available on request 0.4 to 0.5mm depending on material Thickness white similar to RAL 9010, Colours further colours available on request Perforations available on request







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 Dimensions Thickness

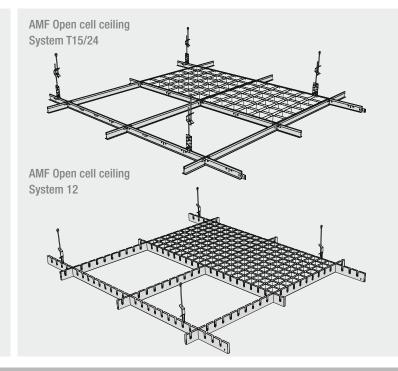
Colours

up to 70% RH

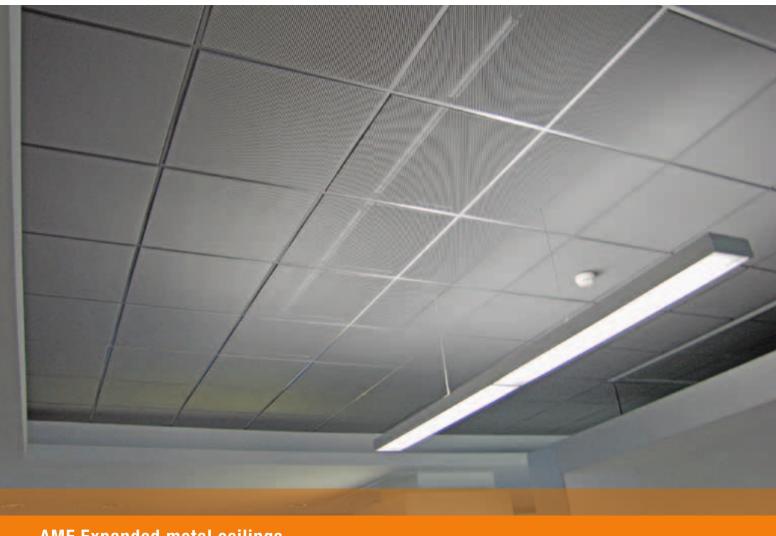
600 x 600 / 600 x 1200 mm System T15/24: ca. 6.0 kg/m²

System 12: ca. 4.0 kg/m² white similar to RAL 9010,

grey similar to RAL 9016, other colours available on request



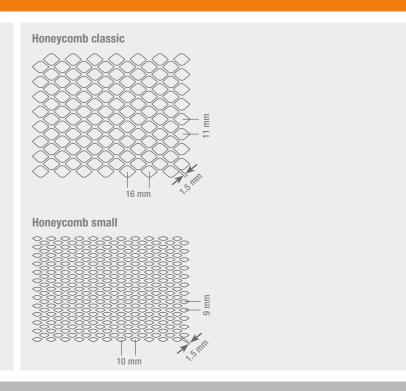
METAL SYMETRA



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.









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.

Building material class Sound absorption Humidity

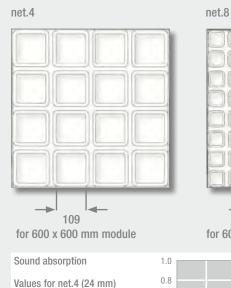
Dimensions

Thickness Colours

- 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.co.uk
- - white similar to RAL 9010

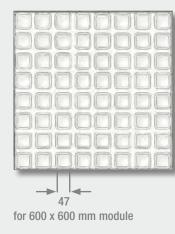


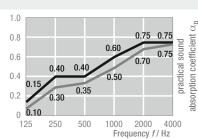




 $\alpha_{\rm W}$ = 0.45 (H) / NRC = 0.45 absorbing

Values for net.8 (24 mm) $\alpha_{\rm W}$ = 0.50 (H) / $\dot{\textit{NRC}}$ = 0.55 absorbing



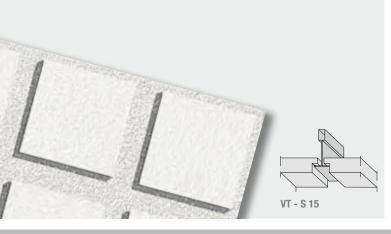






THERMATEX Ranura

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



SYSTEM Exposed system, demountable ceiling *1

Building material class
Sound absorption
Humidity
Thermal conductivity

Dimensions

Thickness/weight Colours

A2-s1, d0 as per EN 13501-1 EN ISO 354

Up to 90% RH

λ = 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

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

^{*}¹ Details, see System Solutions, Ceiling Systems Catalogue. See page 29 for general information.

AMF DESIGNER TILES

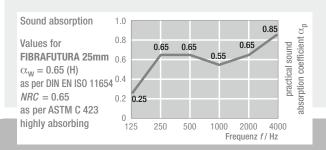


FIRBRAFUTURA is a ceiling tile made from wood fibres bound together with cement. As well as a stylish appearance FIBRAFUTURA has excellent physical properties including impact resistance.



*1 Details, see System Solutions, Ceiling Systems Catalogue. See page 29 for general information.











FIBRAFUTURA tiles offer exciting possibilities for contemporary ceiling design. This natural material, made from wood fibres bound together with grey or white cement, is available in a wide range of RAL colours. FIBRAFUTURA Mirage Copper tiles give a changed appearance when viewed from different angles.

The outstanding physical characteristics of FIBRAFUTURA allow the tiles to be used both internally and semi-externally, with up to 95% RH humidity resistance.

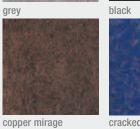












Due to the natural structure of wood, colour variations may occur.

Surfaces shown are examples.

cracked glaze blue

AMF Design Solutions









AMF mineral tiles and boards can be individually finished to your specification.

Large scale patterns and pictures, individual ceiling tiles with logos, graphics or text can all be produced.

Printed tiles are available in all mineral face patterns and can be used with all systems.



Floating ceilings THERMATEX Sonic Sky

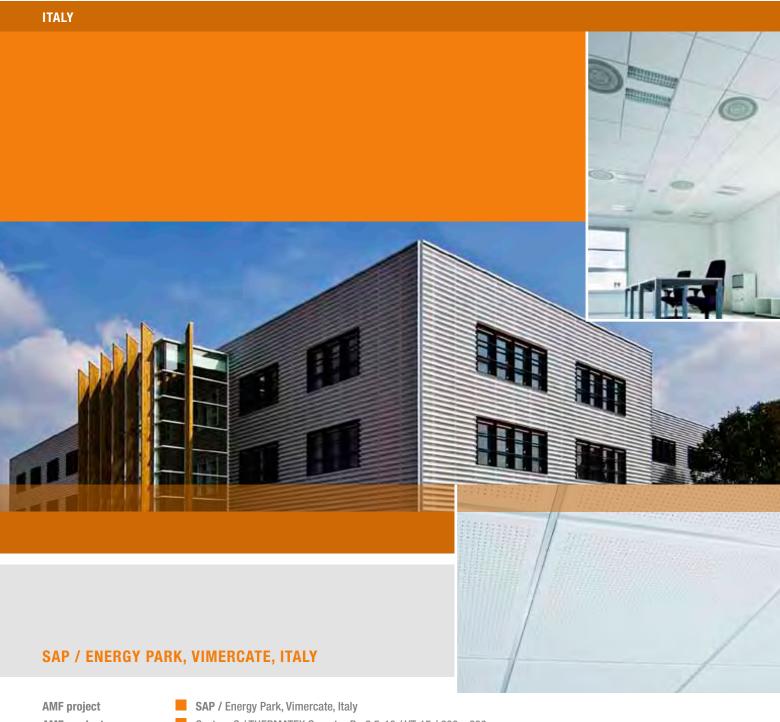
Modern architecture uses hard reflective materials such as glass, steel and concrete. Only limited space is available for the acoustic absorption that is needed to provide a comfortable acoustic environment.

The **THERMATEX Sonic Sky** raft offers a simple solution to optimise the acoustics of a space.

The rafts offer flexible and stylish solutions with a wide range of shapes and colours. The Rafts consist of a Thermatex ceiling panel in a supporting frame. The acoustic panels have a high quality fleece coated face available in a variety of colours. The system is designed to be easy to install with semi concealed hangers providing an elegant floating appearance.

Further detailed information on the THERMATEX Sonic Sky range is available in the Thermatex Sonic Sky brochure.

AMF PROJECTS



AMF project AMF product Quantity

System C / THERMATEX Symetra Rg 2,5-10 / VT-15 / 600 x 600 mm

10,000 m²

GENERAL NOTES





DRAFT SPECIFICATIONS AND TECHNICAL INFORMATION

For copies of draft specifications please contact AMF on:

Telephone: 020 8892 3216 Fax: 020 8892 6866

E-mail: sales@amfceilings.co.uk

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.

Please consult www.amfceilings.com for the latest in technical data and product information.

This catalogue supersedes all previous editions.

Errors and omissions excepted. Printing errors excepted.

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AMF - PROGRAMME



Part 1



Part 2



Part 3



Part 4



Part 5



Part 6

AMF APPLICATIONS



Part 1



Part 2

PERFORMANCE CEILINGS



More scope for innovation

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Part 4 HEALTH & HYGIENE

Part 5 SOUND, LIGHT & E - TECH

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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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