

PERFORMANCE CEILINGS
More scope for innovation



CEILING SYSTEMS CATALOGUE

PROGRAMME PART 1

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This catalogue contains the complete AMF range of suspended ceilings illustrating the mineral face patterns as well as basic information about special systems for fire protection, acoustics, hygiene, integrated high tech and material and design. For detailed information about these special products complete the fax-back form at the end of the catalogue or download from www.knaufamf.com



**AMF advances the
concept of integration**



■ INNOVATION AND AESTHETICS

Knauf AMF has developed performance ceilings for universal applications. New technical standards ensure their increased use to benefit the safety and comfort of human beings. At the same time these ceiling systems are also an integrated part of the architecture of spaces. Knauf AMF is committed to the advancement of integration between function and aesthetics.

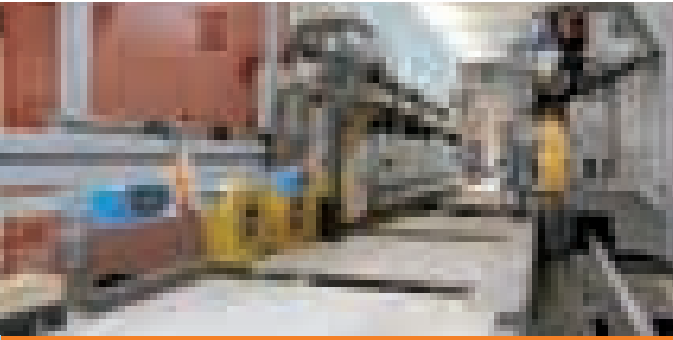


■ SITE AND SALES ORGANISATIONS

A commitment to high quality levels is central to the AMF manufacturing plant located in the heart of the Bavarian forest. This in turn ensures adherence to the strict environmental standards required in producing materials. The central logistic functions ensure efficient supply chains.

To ensure excellent service and support standards, Knauf AMF now has sales subsidiaries in the following countries:

- | | | | |
|-----------------|------------------|------------|------------------------|
| ■ Algeria | ■ Chile | ■ India | ■ Slovenia |
| ■ Australia | ■ Croatia | ■ Iran | ■ South Africa |
| ■ Austria | ■ Czech Republic | ■ Italy | ■ Spain |
| ■ Baltic states | ■ Egypt | ■ Poland | ■ Taiwan |
| ■ Benelux | ■ France | ■ Rumania | ■ Turkey |
| ■ Brazil | ■ Germany | ■ Russia | ■ Ukraine |
| ■ Bulgaria | ■ Greece | ■ Serbia | ■ United Arab Emirates |
| ■ China | ■ Hungary | ■ Slovakia | ■ United Kingdom |



■ PARTNERS AND ASSOCIATES

Knauf AMF is a company in the Knauf group. This gives the strength and security needed to realise new ideas and implement appropriate strategies. New manufacturing investment creates more space for new products. Development of these ranges takes place in close cooperation with leading technology and research organisations, including the Fraunhofer Institute, Technical University of Munich, Mueller BBM and many others.

**NEW
FROM
AMF**

Frameless ceiling rafts THERMATEX® Sonic element



THERMATEX® Sonic element

THERMATEX® Sonic **element** is a mineral acoustic ceiling raft which does not require any frame! The AMF THERMATEX® base, together with a special Acoustic Range acoustic fleece surface, ensures the highest sound absorption.

THERMATEX® Sonic **element** is a perfect way to effectively provide a comfortable acoustic environment using only few materials. It is also 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 especially for areas with a high-class architectural design, such as foyers or reception areas, restaurants and modern office environments, where design and acoustics can be brought together. The slightly shifted fixing points, as well as the frameless, solid edges, bring out the elegant appearance of the raft, making it look like a floating sail.

Technical Performance

Sound absorption	■ BS EN ISO 354
Humidity	■ up to 95% RH
Heat conductivity	■ $\lambda = 0.040$ W/mK as per EN 12667
Shapes	■ Rectangles, circles
Formats	■ max. 1200 x 1200 mm, \emptyset 1200 mm
Thickness / Weight	■ c. 38 mm (c. 9.0 kg/m ²)
Colours	■ white similar to RAL 9010

**NEW
FROM
AMF**



100% RH
sound absorbing
washable



THERMATEX® Aquatec - The sound absorbing ceiling tile for 100%

In rooms with permanently high humidity, such as swimming pools, sanitary facilities or large kitchens, special demands are placed on the ceiling in terms of humidity resistance.

Due to its special composition, THERMATEX® Aquatec resists humidity up to 100% RH. This means that it is dimensionally stable when exposed to high humidity and temperatures from 0° to 40°C. This makes THERMATEX® Aquatec especially suitable for many applications, such as offices and retail in regions with a naturally high humidity like the the tropics. For thorough cleaning the THERMATEX® Aquatec can also be washed.

The Aquatec also has outstanding sound absorption providing an optimal solution for most hygiene applications.

Application areas

THERMATEX® Aquatec provides an excellent solution for critical applications, in which the product selection must be made especially carefully:

- Healthcare facilities
- sanitary facilities
- kitchens
- swimming pools (corrosion resistant grid system required)

Plus points:

- 100% RH (relative humidity)
- washable
- Classement particulaire ISO 3 selon ISO 14644-1
- highly absorbing, $\alpha_w / NRC = 0.90$ (EN ISO 11654)
- white, plain fleece surface
- sound attenuation of 28 dB (EN 10848)
- HYGENA-coating optional



High quality product range

■ EDGE HARDENING

By using a special coating method AMF THERMATEX® ceiling tiles with recessed edges (VT) are hardened as standard and square edged tiles (SK) on request. This added durability provides protection against damage.

The fine chamfered edge gives a better visual appearance with clean, crisp lines.

■ MINERAL

THERMATEX® ceiling tiles are made from new generation bio-soluble mineral wool, clay and starch and are therefore based on natural raw materials. Mineral wool offers excellent fire resistance and acoustic performance.

■ SUSPENSION SYSTEMS

AMF offers a range of suspension systems and tiles to satisfy different design requirements.

Ceiling systems are tested and certified for fire protection and acoustic performance.

With its wide choice of ceilings AMF can offer the best solutions for a variety of applications.



AMF THERMATEX®

■ AMF THERMATEX®

THERMATEX® is a long-established international brand that stands for high quality and technical performance.

■ AMF THERMATEX® Comfort

From the AMF THERMATEX® range the Comfort tile combines good acoustic performance with fire protection.

■ AMF THERMATEX® Comfort dB

An even greater improvement in sound insulation and fire resistance can be achieved with the enhanced Comfort dB tile.

■ For more face pattern options please see the individual product descriptions.

FIRE PROTECTION

Request your copy of the AMF Fire Protection catalogue

- Download at www.knaufamf.com
- by telephone hotline on +49 (0) 8552 / 422 - 0
- using the reply card form on page 73

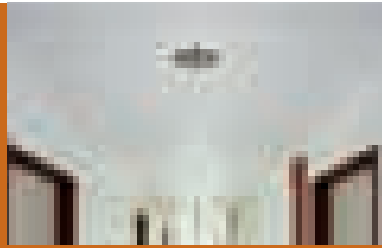


Structural safety

There can be no compromise with risks to the life and health of people. Equipment and machinery must also be protected against fire. AMF fire protection systems have been developed by experts for use in areas such as airports, hotels, schools, conference rooms, laboratories and other buildings where security is a key factor.



Download the
pdf file from
www.knaufamf.com



SYSTEM F30 Uno

System F30 Uno provides fire protection from above and below. Dual panels are prefabricated, making installation fast and easy.

FIRE RESISTANT LIGHT BOX

Providing fire protection for luminaires, downlighters, loudspeakers etc.



INDEPENDENT FIRE-RESISTANT PANELS

Independent fire protection from above and below.

- F30 Uno / + Metal
- F30 Dual + Metal

STRUCTURAL FIRE PROTECTION

Intelligently constructed fire prevention ceilings from AMF satisfy multi-functional needs. Safeguarding life and property is the most important of them. Special AMF systems respond to advanced requirements such as protection against fire from the ceiling void and in rooms underneath.

- Up to 90 minutes to steel beams
- 60 minutes to timber joists / mezzanine floors

ACOUSTICS

Request your copy of the AMF Acoustics catalogue

- Download at www.knaufamf.com
- by telephone hotline on +49 (0) 8552 / 422 - 0
- using the reply card form on page 73

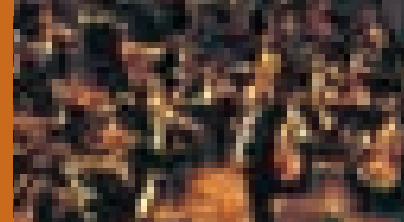
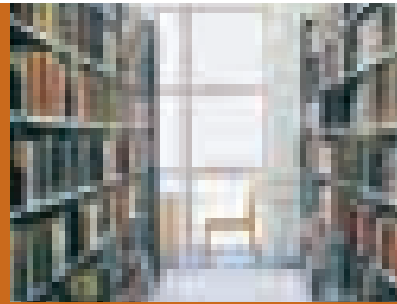


Individual sound solutions

The construction process increasingly requires the creation of balanced room acoustics. Depending on the usage of the room there can be a wide range of demands on the ceiling. The combination of excellent performance in both sound absorption and attenuation from the new AMF Acoustic Ceilings range enables specifiers to meet these demands.



Download the pdf file from www.knaufamf.com

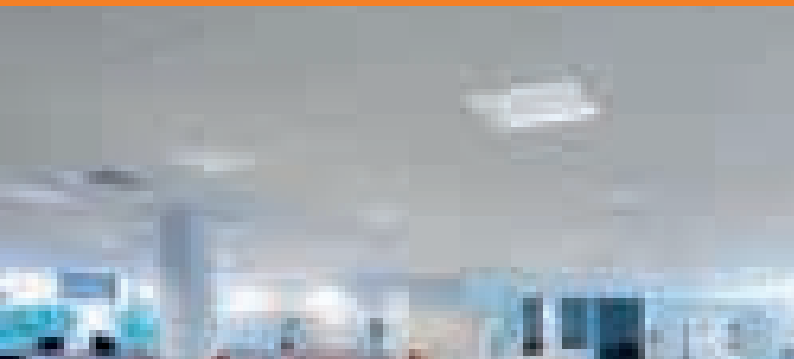


THERMATEX® Silence

is a fleece coated ceiling made from two mineral boards bonded together. The special construction provides excellent sound absorption as well as high sound attenuation.

THERMATEX® Alpha ONE

is a new wet-felt mineral tile which provides highest sound absorption values.



■ SOUND ATTENUATION

■ SOUND ABSORPTION

AMF Ceiling Systems maximise the technical combination of sound absorption and attenuation to regulate room acoustics. This benefits the working performance and health of the occupants of the room.

■ THERMATEX® Alpha

■ THERMATEX® ONE

■ THERMATEX® HD

■ THERMATEX® Acoustic

■ THERMATEX® dB Acoustic

■ THERMATEX® SF Acoustic

■ THERMATEX® Silence

■ THERMATEX® Thermofon

■ THERMATEX® Acoustic RL

■ THERMATEX® Kombimetall

■ THERMATEX® Comfort

■ THERMATEX® Sonic

HEALTH & HYGIENE

Request your copy of the AMF Health & Hygiene catalogue

- Download at www.knaufamf.com
- by telephone hotline on +49 (0) 8552 / 422 - 0
- using the reply card form on page 73

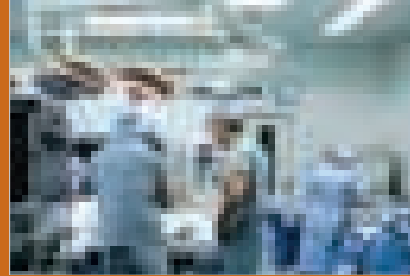


A safe working environment

AMF Health & Hygiene ceilings control harmful substances in spaces. Hygena protects against bacteria and inhibits fungal growth; and Clean Room helps in controlling dust particles in rooms.



Download the pdf file from www.knaufamf.com



THERMATEX® Thermaclean S

A washable, high density mineral ceiling tile for a range of hygiene applications.

THERMATEX® Aquatec

Due to its special composition, THERMATEX® Aquatec resists humidity up to 100% RH. This means that it is dimensionally stable when exposed to high humidity and temperatures from 0° to 40°C.



■ **CLEAN ROOM**

Clean Room provides effective control over the number of dust particles in a room, essential for meeting clean room standards.

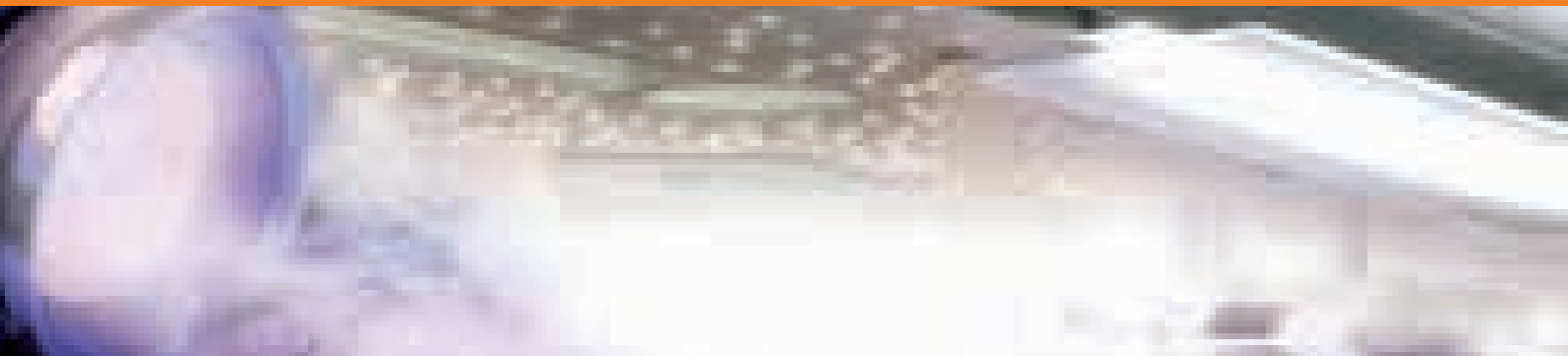
■ **HYGENA**

The special bactericidal and fungistatic treatment of Hygena prevents the spread of germs, with resultant benefits not only for healthcare facilities and food preparation areas but also open-plan offices.

SOUND, LIGHT & E-TECH

Request your copy of the AMF Sound, Light & E-Tech catalogue

- Download at www.knaufamf.com
- by telephone hotline on +49 (0) 8552 / 422 - 0
- using the reply card form on page 73

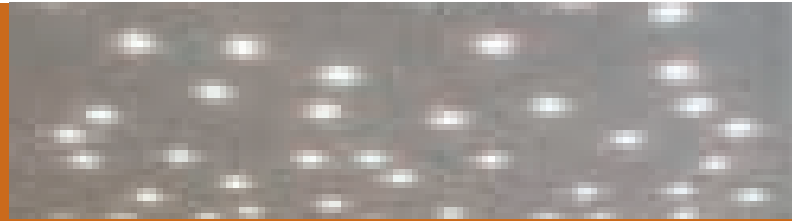


New ceiling technology

Sound, Light & E-Tech comprises new functional ceiling solutions from Knauf AMF. The integration of lighting and communications technology within the ceiling makes a great contribution to the aesthetics of the room.

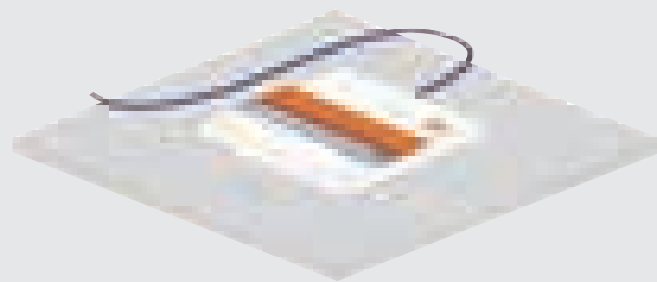


Download the
pdf file from
www.knaufamf.com



AMF Soundmosaic

A flat panel loudspeaker working on the principle of wave conversion with HiFi-Quality and 180° sound emission.



AMF Beamex System

Electrically operated and remote controlled ceiling panel invisibly integrating projectors within the ceiling.



■ SOUNDMOOSAIC

The new AMF Soundmosaic ceiling tile is a flat panel loudspeaker in ceiling module size that works on the principle of wave conversion. The tile itself acts as the loudspeaker and blends in with the rest of the AMF ceiling. The resulting sound produces Hi-Fi Quality for both speech and music transmission.

■ LIGHTS

Ceiling fittings with fire protection for all requirements

■ BEAMEX SYSTEM

An electrically operated ceiling tile, created to safely shelter slide, video and LCD projectors within the ceiling void.

MATERIAL & DESIGN

Request your copy of the AMF Material & Design catalogue

- Download at www.knaufamf.com
- by telephone hotline on +49 (0) 8552 / 422 - 0
- using the reply card form on page 73

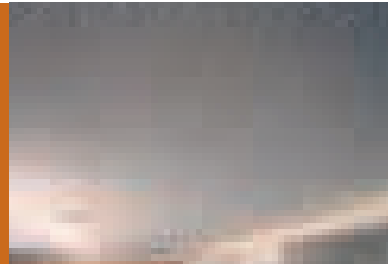


Innovative ceiling design

Design alternatives to the classic mineral ceilings from AMF. Freedom of design created by the opportunity to combine different materials that offer innovative choices.



Download the
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www.knaufamf.com

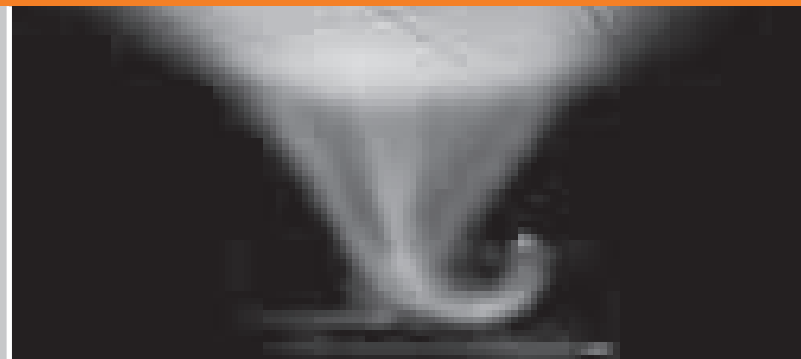


THERMATEX® Symetra

A choice in hole patterns in combination with a variety of edge details leave ample room for the architect or specifier for contemporary ceiling design.

THERMATEX® Varioline

The appearance of elegant metal and wooden ceilings. The functionality of a mineral ceiling.



■ MATERIAL

The right material for a range of different ceiling designs. Modern functional metal, the durability of wood fibre and the warmth of wood veneer.

■ DESIGN

Innovation from the Symetra range with regularly spaced round perforations, or the Seventies retro - look with THERMATEX® net.4 open cell tiles.

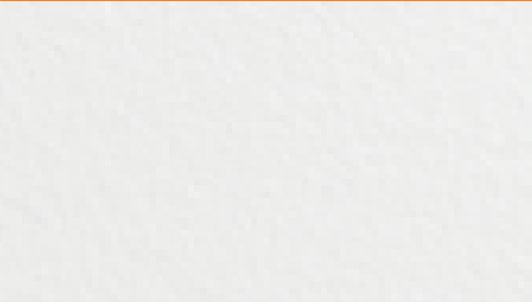
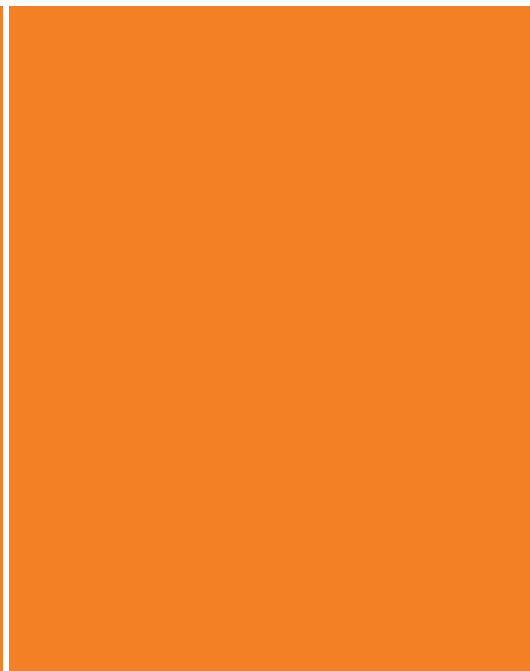
CLASSIC DESIGNS



Aesthetic ceiling design

A wide variety of face patterns is available for every ceiling system. The design not only greatly influences the appearance of the ceiling but also affects its technical performance in terms of acoustics, humidity resistance or hygiene.

For more face pattern options please see programme parts 2 - 6.



■ **SMOOTH SURFACES**

Smooth or lightly textured face patterns create a contemporary ceiling design with sound reflection.

Page 22

■ **TEXTURED AND MICROPERFORATED SURFACES**

Well-proportioned ceilings featuring micro-perforated surfaces offering very good sound absorption.

Page 24

■ **FISSURED SURFACES**

Multi-directional fissured ceilings creating interesting contrasts and good sound absorption.

Page 26

CLASSIC DESIGNS



Smooth THERMATEX® surfaces

The tile is plain finished or finely textured, creating a calm ceiling blending into the background. Smooth surfaces reflect sound and have low absorption.



THERMATEX® Plain

SYSTEM	<ul style="list-style-type: none"> C Exposed system, demountable ceiling¹ F Free span system, with exposed or concealed suspension¹ I Bandrafter system, concealed cross sections¹ A Concealed system, panels demountable AW/GN / not demountable GN¹
Building material class	■ A2-s1, d0 as per EN 13501-1
Fire	■ up to 60 minutes as per BS 476: parts 20-23 (according to test certificate)
Sound absorption	■ EN ISO 354
Frequency <i>f</i> in Hz	125 250 500 1000 2000 4000
Sound absorption α_p	0.25 0.20 0.10 0.05 0.05 0.10
	$\alpha_w = 0.10$ (L) as per EN ISO 11654, <i>NRC</i> = 0.10 as per ASTM C 423
Sound attenuation	■ $D_{n,f,w} = 34$ dB as per EN ISO 10848 (15 mm thickness, according to test certificate)
Humidity	■ up to 95% RH
Light reflectance	■ up to 92%
Thermal conductivity	■ $\lambda = 0.052 - 0.057$ W/mK as per DIN 52612
Dimensions	■ For sizes as well as supply categories please consult the price list.
Thickness / Weight	■ 15 mm (c. 4.0 kg/m ²) / 19 mm (c. 5.3 kg/m ²)
Colours	■ white similar to RAL 9010, other colours available to order

Extra options available - please see additional catalogues 2-6

Hygiene ■ Clean Room, Hygena (part 4)

¹ For details please see systems solutions. For technical regulations please refer to pages 46-47.



THERMATEX® Fine Stratos

SYSTEM	<ul style="list-style-type: none"> C Exposed system, demountable ceiling¹ F Free span system, with exposed or concealed suspension¹ I Bandrastrer system, concealed cross sections¹ A Concealed system, panels demountable AW/GN / not demountable GN¹
Building material class	■ A2-s1, d0 as per EN 13501-1
Fire	■ up to 60 minutes as per BS 476: parts 20-23 (according to test certificate)
Sound absorption	■ EN ISO 354
Frequency <i>f</i> in Hz	125 250 500 1000 2000 4000
Sound absorption α_p	0.30 0.25 0.10 0.10 0.10 0.10
	$\alpha_w = 0.10$ (L) as per EN ISO 11654, <i>NRC</i> = 0.15 as per ASTM C 423
Sound attenuation	■ $D_{n,f,w} = 34$ dB as per EN ISO 10848 (15 mm thickness, according to test certificate)
Humidity	■ up to 95% RH
Light reflectance	■ up to 88%
Thermal conductivity	■ $\lambda = 0.052 - 0.057$ W/mK as per DIN 52612
Dimensions	■ For sizes as well as supply categories please consult the price list.
Thickness / Weight	■ 15 mm (c. 4.0 kg/m ²) / 19 mm (c. 5.3 kg/m ²) / 40 mm (c. 12 kg/m ²)
Colours	■ white similar to RAL 9010, other colours available to order

Extra options available - please see additional catalogues 2-6

Self-supporting fire protection systems	■ F30 Uno (part 2)
Acoustics	■ THERMATEX® Comfort (part 3)
Hygiene	■ Hygena (part 4)

¹ For details please see systems solutions.
For technical regulations please refer to pages 46-47.



THERMATEX® Laguna

SYSTEM	<ul style="list-style-type: none"> C Exposed system, demountable ceiling¹
Building material class	■ A2-s1, d0 as per EN 13501-1
Fire	■ up to 60 minutes as per BS 476: parts 20-23 (according to test certificate)
Sound absorption	■ EN ISO 354
Frequency <i>f</i> in Hz	125 250 500 1000 2000 4000
Sound absorption α_p	0.35 0.20 0.10 0.05 0.05 0.05
	$\alpha_w = 0.10$ (L) as per EN ISO 11654, <i>NRC</i> = 0.10 as per ASTM C 423
Sound attenuation	■ $D_{n,f,w} = 34$ dB as per EN ISO 10848 (15 mm thickness, according to test certificate)
Humidity	■ up to 90% RH
Light reflectance	■ up to 88%
Thermal conductivity	■ $\lambda = 0.052 - 0.057$ W/mK as per DIN 52612
Dimensions	■ For sizes as well as supply categories please consult the price list.
Thickness / Weight	■ 15 mm (c. 4.0 kg/m ²)
Colours	■ white similar to RAL 9010, other colours available to order

Extra options available - please see additional catalogues 2-6

¹ For details please see systems solutions.
For technical regulations please refer to pages 46-47.

CLASSIC DESIGNS



Textured and micro perforated THERMATEX® surfaces

Finely textured surfaces and micro-perforations provide an elegant ceiling with good sound absorption.



THERMATEX® Fine Stratos micro

SYSTEM	<ul style="list-style-type: none"> C Exposed system, demountable ceiling¹ F Free span system, with exposed or concealed suspension¹ I Bandrastrer system, concealed cross sections¹ A Concealed system, panels demountable AW/GN / not demountable GN¹
Building material class	■ A2-s1, d0 as per EN 13501-1
Fire	■ up to 60 minutes as per BS 476: parts 20-23 (according to test certificate)
Sound absorption	■ EN ISO 354
Frequency <i>f</i> in Hz	125 250 500 1000 2000 4000
Sound absorption α_p	0.50 0.50 0.55 0.70 0.65 0.50
	$\alpha_w = 0.60$ 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, according to test certificate)
Humidity	■ up to 95% RH
Light reflectance	■ up to 88%
Thermal conductivity	■ $\lambda = 0.052 - 0.057$ W/mK as per DIN 52612
Dimensions	■ For sizes as well as supply categories please consult the price list.
Thickness / Weight	■ 15 mm (c. 4.0kg/m ²) / 19 mm (c. 5.3kg/m ²) / 40 mm (c. 12kg/m ²)
Colours	■ white similar to RAL 9010, other colours available to order

Extra options available - please see additional catalogues 2-6

Self-supporting fire protection systems	■ F30 Uno (part 2)
Acoustics	■ THERMATEX® Comfort (part 3)
Hygiene	■ Hygena (part 4)

¹ For details please see systems solutions.
For technical regulations please refer to pages 46-47.



THERMATEx® Laguna micro

SYSTEM	<ul style="list-style-type: none"> ■ Exposed system, demountable ceiling¹ 						
Building material class	<ul style="list-style-type: none"> ■ A2-s1, d0 as per EN 13501-1 						
Fire	<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 						
Frequency <i>f</i> in Hz	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td>125</td><td>250</td><td>500</td><td>1000</td><td>2000</td><td>4000</td> </tr> </table>	125	250	500	1000	2000	4000
125	250	500	1000	2000	4000		
Sound absorption α_p	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td>0.35</td><td>0.35</td><td>0.60</td><td>0.75</td><td>0.70</td><td>0.45</td> </tr> </table> <p>$\alpha_w = 0.60$ as per EN ISO 11654, <i>NRC</i> = 0.60 as per ASTM C 423</p>	0.35	0.35	0.60	0.75	0.70	0.45
0.35	0.35	0.60	0.75	0.70	0.45		
Sound attenuation	<ul style="list-style-type: none"> ■ $D_{n,f,w} = 34$ dB as per EN ISO 10848 (15 mm thickness, according to test certificate) 						
Humidity	<ul style="list-style-type: none"> ■ up to 90% RH 						
Light reflectance	<ul style="list-style-type: none"> ■ up to 88% 						
Thermal conductivity	<ul style="list-style-type: none"> ■ $\lambda = 0.052 - 0.057$ W/mK as per DIN 52612 						
Dimensions	<ul style="list-style-type: none"> ■ For sizes as well as supply categories please consult the price list. 						
Thickness / Weight	<ul style="list-style-type: none"> ■ 15 mm (c. 4.0 kg/m²) 						
Colours	<ul style="list-style-type: none"> ■ white similar to RAL 9010, other colours available to order 						

Extra options available - please see additional catalogues 2-6

THERMATEx® Star

SYSTEM	<ul style="list-style-type: none"> ■ Exposed system, demountable ceiling¹ ■ Free span system, with exposed or concealed suspension¹ ■ Bandraaster system, concealed cross sections¹ ■ Concealed system, panels demountable AW/GN / not demountable GN¹ 						
Building material class	<ul style="list-style-type: none"> ■ A2-s1, d0 as per EN 13501-1 						
Fire	<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 						
Frequency <i>f</i> in Hz	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td>125</td><td>250</td><td>500</td><td>1000</td><td>2000</td><td>4000</td> </tr> </table>	125	250	500	1000	2000	4000
125	250	500	1000	2000	4000		
Sound absorption α_p	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td>0.50</td><td>0.40</td><td>0.55</td><td>0.70</td><td>0.65</td><td>0.45</td> </tr> </table> <p>$\alpha_w = 0.60$ as per EN ISO 11654, <i>NRC</i> = 0.60 as per ASTM C 423</p>	0.50	0.40	0.55	0.70	0.65	0.45
0.50	0.40	0.55	0.70	0.65	0.45		
Sound attenuation	<ul style="list-style-type: none"> ■ $D_{n,c,w} = 34$ dB as per EN ISO 10848 (15 mm thickness, according to test certificate) 						
Humidity	<ul style="list-style-type: none"> ■ up to 95% RH 						
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 						
Dimensions	<ul style="list-style-type: none"> ■ For sizes as well as supply categories please consult the price list. 						
Thickness / Weight	<ul style="list-style-type: none"> ■ 15 mm (c. 4.0kg/m²) / 19 mm (c. 5.3kg/m²) / 40 mm (c. 12kg/m²) 						
Colours	<ul style="list-style-type: none"> ■ white similar to RAL 9010, other colours available to order 						

Extra options available - please see additional catalogues 2-6

Self-supporting fire protection systems	<ul style="list-style-type: none"> ■ F30 Uno (part 2)
Acoustics	<ul style="list-style-type: none"> ■ THERMATEx® Comfort (part 3)
Hygiene	<ul style="list-style-type: none"> ■ Hygena (part 4)

¹ For details please see systems solutions.
For technical regulations please refer to pages 46-47.

¹ For details please see systems solutions.
For technical regulations please refer to pages 46-47.

CLASSIC DESIGNS



Fissured THERMATEX® surfaces

Defined perforations give the ceiling an individual character, with a consequent increase in sound absorption.



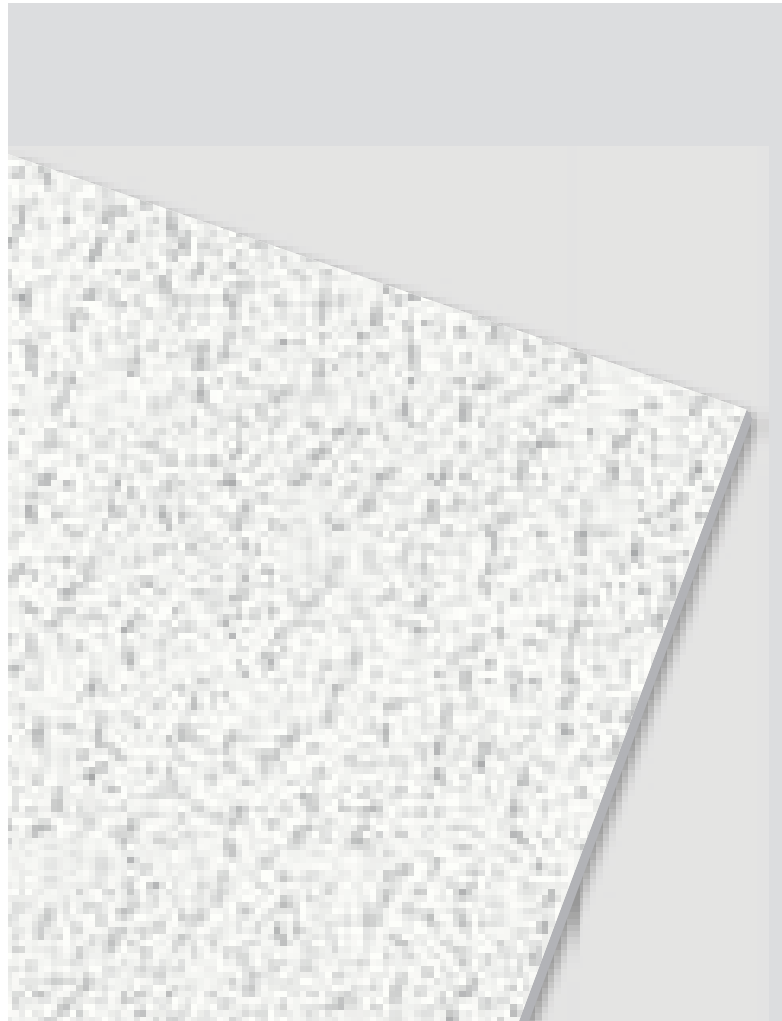
THERMATEX® Mercure

SYSTEM	<ul style="list-style-type: none"> C Exposed system, demountable ceiling¹ F Free span system, with exposed or concealed suspension¹ I Bandrafter system, concealed cross sections¹ A Concealed system, panels demountable AW/GN / not demountable GN¹
Building material class	A2-s1, d0 as per EN 13501-1
Fire	up to 60 minutes as per BS 476: parts 20-23 (according to test certificate)
Sound absorption	EN ISO 354
Frequency <i>f</i> in Hz	125 250 500 1000 2000 4000
Sound absorption α_p	0.45 0.40 0.50 0.70 0.70 0.65
	$\alpha_w = 0.60$ 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, according to test certificate)
Humidity	up to 95% RH
Light reflectance	up to 88%
Thermal conductivity	$\lambda = 0.052 - 0.057$ W/mK as per DIN 52612
Dimensions	For sizes as well as supply categories please consult the price list.
Thickness / Weight	15 mm (c. 4.0 kg/m²) / 19 mm (c. 5.3 kg/m²)
Colours	white similar to RAL 9010, other colours available to order

Extra options available - please see additional catalogues 2-6

Acoustics **Thermatex® Comfort (part 3)**

¹ For details please see systems solutions.
For technical regulations please refer to pages 46-47.



THERMATEx® Fine Fresko

THERMATEx® Fresko

SYSTEM	<ul style="list-style-type: none"> C Exposed system, demountable ceiling¹ F Free span system, with exposed or concealed suspension ¹ I Bandraaster system, concealed cross sections ¹
Building material class	<ul style="list-style-type: none"> A2-s1, d0 as per EN 13501-1
Fire	<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
Frequency <i>f</i> in Hz	125 250 500 1000 2000 4000
Sound absorption α_p	0.45 0.40 0.50 0.70 0.80 0.75
	$\alpha_w = 0.60$ (H) as per EN ISO 11654, <i>NRC</i> = 0.60 as per ASTM C 423
Sound attenuation	<ul style="list-style-type: none"> $D_{n,f,w} = 34$ dB as per EN ISO 10848 (15 mm thickness, according to test certificate)
Humidity	<ul style="list-style-type: none"> up to 90% RH
Light reflectance	<ul style="list-style-type: none"> up to 87%
Thermal conductivity	<ul style="list-style-type: none"> $\lambda = 0.052 - 0.057$ W/mK as per DIN 52612
Dimensions	<ul style="list-style-type: none"> For sizes as well as supply categories please consult the price list.
Thickness / Weight	<ul style="list-style-type: none"> 15 mm (c. 4.0 kg/m²) / 19 mm (c. 5.3 kg/m²)
Colours	<ul style="list-style-type: none"> white similar to RAL 9010, other colours available to order

SYSTEM	<ul style="list-style-type: none"> C Exposed system, demountable ceiling¹ F Free span system, with exposed or concealed suspension ¹ I Bandraaster system, concealed cross sections ¹
Building material class	<ul style="list-style-type: none"> A2-s1, d0 as per EN 13501-1
Fire	<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
Frequency <i>f</i> in Hz	125 250 500 1000 2000 4000
Sound absorption α_p	0.45 0.40 0.50 0.70 0.80 0.75
	$\alpha_w = 0.60$ (H) as per EN ISO 11654, <i>NRC</i> = 0.60 as per ASTM C 423
Sound attenuation	<ul style="list-style-type: none"> $D_{n,f,w} = 34$ dB as per EN ISO 10848 (15 mm thickness, according to test certificate)
Humidity	<ul style="list-style-type: none"> up to 90% RH
Light reflectance	<ul style="list-style-type: none"> up to 87%
Thermal conductivity	<ul style="list-style-type: none"> $\lambda = 0.052 - 0.057$ W/mK as per DIN 52612
Dimensions	<ul style="list-style-type: none"> For sizes as well as supply categories please consult the price list.
Thickness / Weight	<ul style="list-style-type: none"> 15 mm (c. 4.0 kg/m²) / 19 mm (c. 5.3 kg/m²)
Colours	<ul style="list-style-type: none"> white similar to RAL 9010, other colours available to order

Extra options available - please see additional catalogues 2-6

Extra options available - please see additional catalogues 2-6

Acoustics **THERMATEx® Comfort** (part 3)

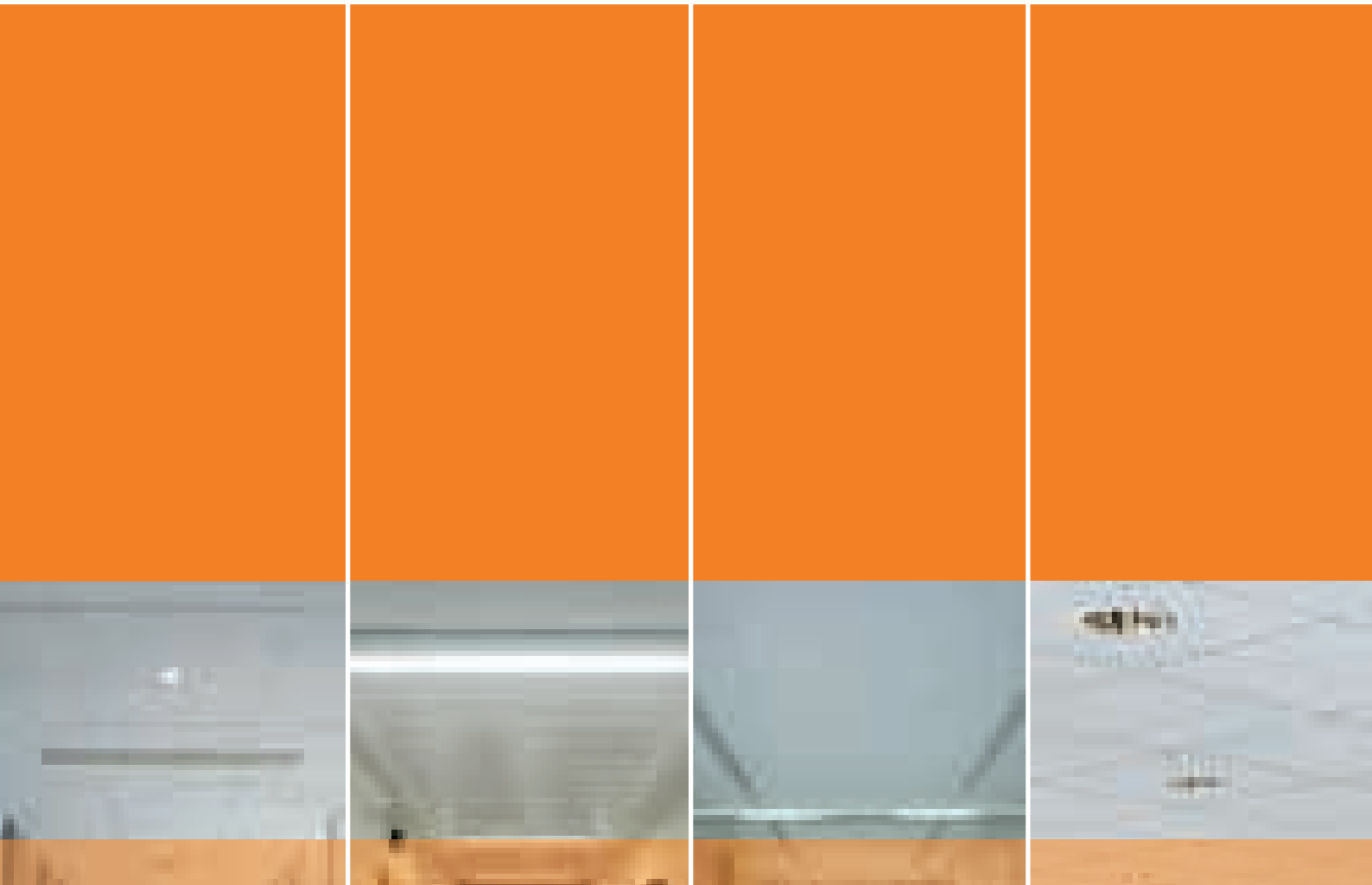
¹ For details please see systems solutions.
For technical regulations please refer to pages 46-47.

SYSTEM SOLUTIONS



Efficiency through technical expertise

Modern buildings have different functional needs where the correct choice of ceiling system is required. AMF offers a wide range of versatile grid systems that meet these requirements. The technology behind these systems offers exceptional performance in terms of fire protection, acoustics and hygiene. Troublefree installation beneath different types of soffit, together with ease of maintenance, provides efficient ceiling solutions for the buildings of today.



■ **EXPOSED GRID SYSTEM**
SYSTEM **C**

Exposed grid system for 24 or 15 mm tee sections. Fully accessible tiles

Page 30

■ **FREE SPAN SYSTEM**
SYSTEM **F**

Free Span system for planks with cross tees exposed or concealed.

Page 34

■ **BANDRAASTER SYSTEM**
SYSTEM **I**

Parallel Bandraaster sections 50 to 150 mm wide, with cross tees exposed or concealed.

Page 38

■ **CONCEALED GRID SYSTEM**
SYSTEM **A**

Concealed system with demountable tiles (AW) or non-accessible (GN).

Page 40

SYSTEM **C** EXPOSED GRID SYSTEM



System C utilises the popular exposed suspension grid as a proactive element in ceiling design. Square edged (SK) ceiling panels are laid into the grid and give a flush visual appearance. Tiles with recessed edges (VT) allow greater creative design options with both 24 and 15 mm wide tee sections. System C is quick and easy to install, and simple to access for maintenance in the ceiling void. Worldwide test reports and certificates demonstrate that AMF System C is an exceptional ceiling construction.

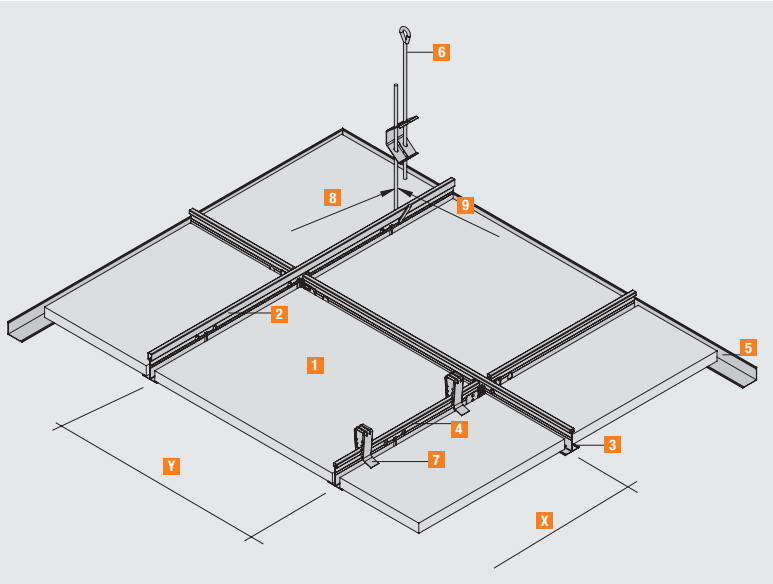
FACE PATTERNS

THERMATEX®

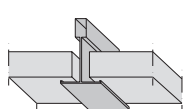
- Plain
- Fine Stratos
- Laguna
- Fine Stratos micro perf.
- Laguna micro perf.
- Star
- Mercure
- Fine Fresko
- Fresko

See page 76 for illustrations

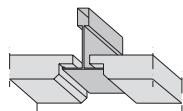




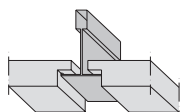
Edge details



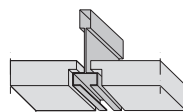
SK



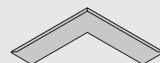
VT 15 / 24



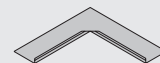
VT - S15 / 24



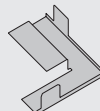
VT - S15F



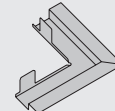
JS - 15
Outer mitre for RWL 24 / 24



JS - 17
Inner mitre for RWL 24 / 24



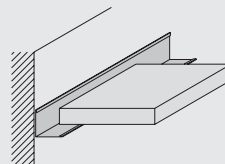
JS - 24 Outer mitre for
SRW 25 / 15 / 8 / 15



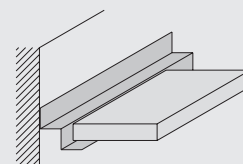
JS - 28 Inner mitre for
SRW 25 / 15 / 8 / 15

Other wall angles and accessories are available on request.

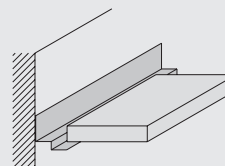
Wall angle RWL 24 / 24



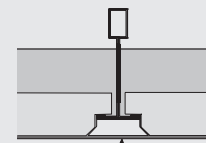
Shadow trim SRW 20 / 20 / 20 / 20



Shadow trim SRW 25 / 15 / 8 / 15



For VT edge



VT Filler piece

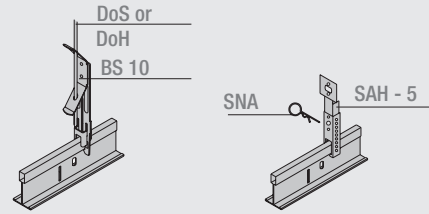
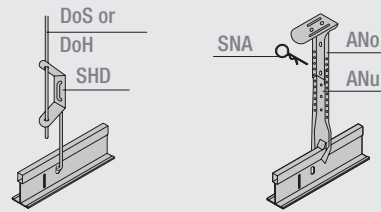
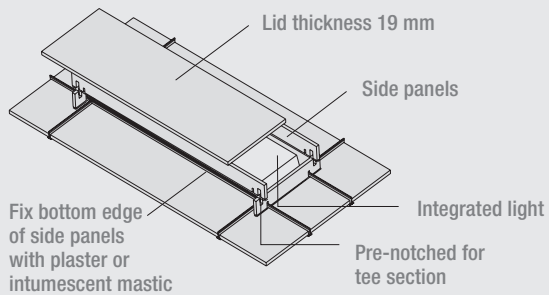
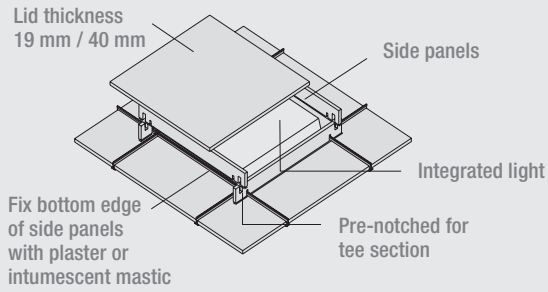
Exposed System

Wall angle

Grid sizes in mm			Y	X					
			600 x 600	625 x 625	600 x 1200	625 x 1250	300 x 1200	312,5 x 1250	400 x 1200
AMF-Mineral ceiling panels	1	pcs	2.78	2.56	1.39	1.28	2.78	2.56	2.09
VENTATEC® T-Main runner T24/38-3600 or 3750	2	lin.m	0.84	0.80	0.84	0.80	0.84	0.80	0.84
VENTATEC® T-Cross tee T24/33 -1200 or 1250	3	lin.m	1.67	1.60	1.67	1.60	3.34	3.20	2.50
VENTATEC® T-Cross tee T24/33 -600 or 625	4	lin.m	0.84	0.80	-	-	-	-	-
RWL edge trim or RWU edge runner for metal	5	lin.m	0.60	0.60	0.60	0.60	0.60	0.60	0.60
SoS hanger or alternatives	6	pcs	0.67	0.67	0.67	0.67	0.67	0.67	0.67
Hold down clip (optional) for fire protection requirements	7	pcs	5.56	5.12	2.78	2.56	5.56	5.12	4.16
Distance between hangers	8	m	1.25	1.20	1.25	1.20	1.25	1.20	1.25
Distance between main runners	9	m	1.20	1.25	1.20	1.25	1.20	1.25	1.20

Fire Resistant Light-Boxes to protect light fittings

Grid: 600 x 600 mm / 625 x 625 mm / 1200 x 600 mm
 300 x 1200 mm / 312.5 x 1250 mm
 Panel thickness: 19 or 40 mm
 Height: 100 mm or 80 mm, respectively
 Further sizes and heights are available on request.



Fire Resistant Light Box

Hangers



SYSTEM **F** FREE SPAN SYSTEM



System F is a free span ceiling system that is ideal for corridors. Ceiling planks are supported on their short edges by perimeter trim and can span up to 2500 mm. The finished ceiling has a smooth, monolithic appearance and is easy to install and maintain. Depending on the type of construction required the planks can be demountable, allowing full access to the ceiling void; or non-accessible.

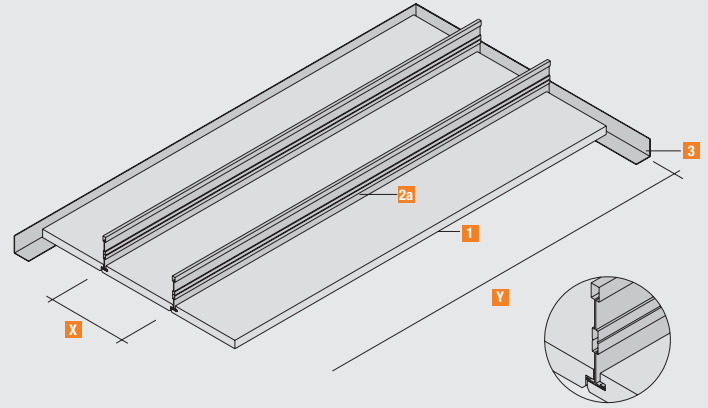
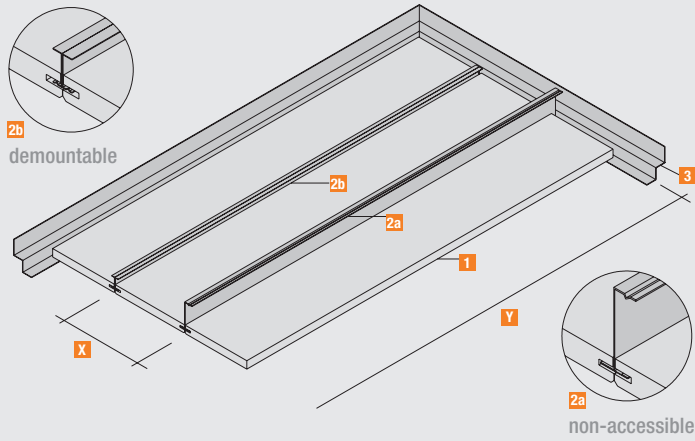
FACE PATTERNS

THERMATEX®

- Plain
- Fine Stratos
- Fine Stratos micro perf.
- Star
- Mercure
- Fine Fresko
- Fresko

See page 76 for illustrations

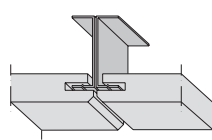
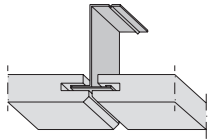




Edge Details

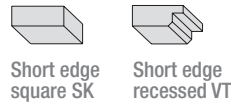
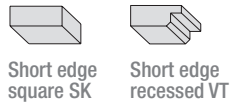
non-accessible

demountable

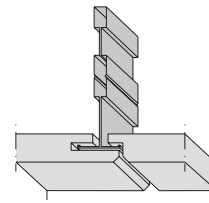


Z section, long edge concealed GN

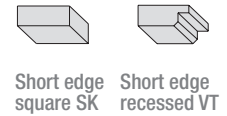
Alternative: C section, long edge concealed GN



Edge Details



T section, long edge shiplap AW

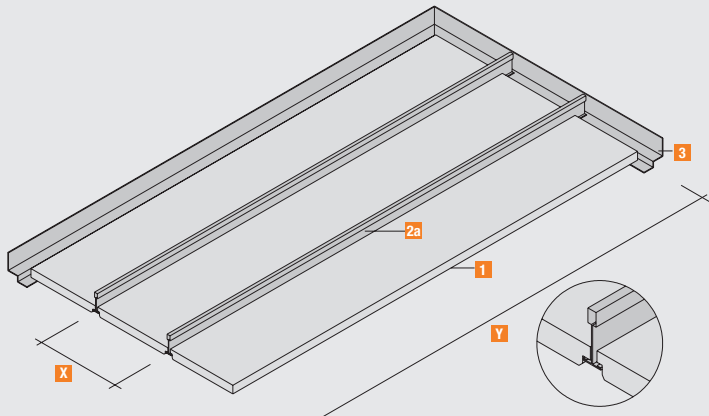


Long edge concealed GN / short edge square SK or recessed VT demountable / non-accessible

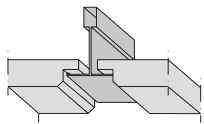
Long edge shiplap AW / short edge square SK or recessed VT demountable

Grid size in mm		Y	X	Grid size in mm											
				300 x 1600	300 x 1800	300 x 2000	300 x 2500	312.5 x 1600	312.5 x 1800	312.5 x 2000	312.5 x 2500	400 x 1600	400 x 1800	400 x 2000	400 x 2500
AMF-Mineral panel	1	pcs		2.08	1.85	1.67	1.34	2.00	1.78	1.60	1.28	1.56	1.39	1.25	1.00
Main runner PQT and PQZ for types F1, F2, F3	2a	lin.m		3.34	3.34	3.34	3.34	3.20	3.20	3.20	3.20	2.50	2.50	2.50	2.50
Alternative main runner PQU for type F1	2b	lin.m		6.68	6.68	6.68	6.68	6.40	6.40	6.40	6.40	5.00	5.00	5.00	5.00
Wall angle	3	lin.m		1.50	1.33	1.20	0.96	1.50	1.33	1.20	0.96	1.50	1.33	1.20	0.96

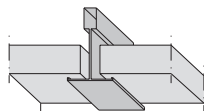
To choose the correct long edge section for the panel size, please consult the profile span table. The table is applicable to construction types F1 to F3.



Edge Details



T section, long edge recessed VT



T section, long edge square SK



Short edge square SK



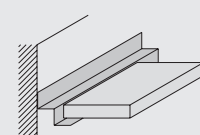
Short edge recessed VT



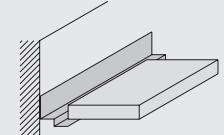
Short edge square SK

Long edge recessed VT or square SK / short edge recessed VT or square SK demountable

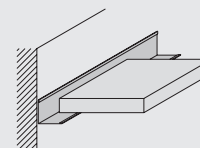
Wall angle / Filler piece / Fire-Resistant Light Box



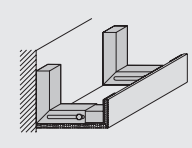
SRW
42 x 20 x 23 x 24 mm



SRW
25 x 15 x 10 x 15 mm

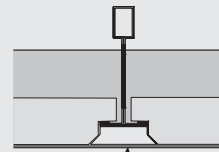


RWL
31 x 31 mm



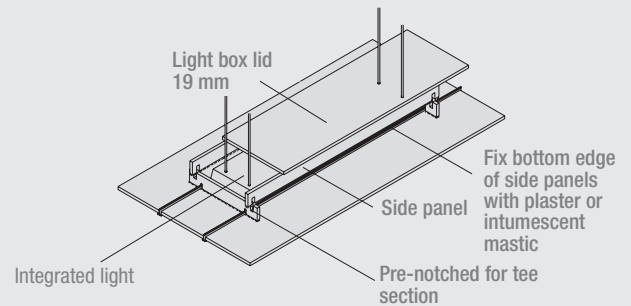
AMF - Wall angle

For type F3



Filler piece AMF FUE - 15 / 24

Fire-resistant light box for integrated luminaires.
Test reports should be followed. Light fittings to be independently suspended.



Tile width (mm)				300 and 312.5 mm					
weight (kg/m ²)				4.0	5.0	6.0	7.5	8.5	9.5
Profile		Height (mm)	Weight (kg/lin.m.)	max. span (mm)					
T24/75		75	0.75	2500	2500	2460	2360	2310	2260
T24/38		38	0.35	1530	1460	1400	1340	1300	1270
P Z19/70		70	0.55	2470	2440	2360	2260	2200	2150
P Z19/50		50	0.45	2160	2070	2000	1910	1850	1810
P Z19/40		40	0.40	1870	1790	1720	1650	1600	1560
P U10/50		50	0.35	2350	2250	2160	2060	2000	1960
P U12/38		38	0.45	2200	2110	2040	1940	1890	1850

Profile	weight (kg/m ²)	max. span (mm)		
		5.0	6.0	9.5
RW L 19/24 d = 0.5 mm		1700	1500	1200
RW L 24/24 d = 0.5 mm		1700	1500	1200
RW L 31/31 d = 1.0 mm		2500	2500	2500
RW L 40/30 d = 1.0 mm		2500	2500	2500

Profile	weight (kg/m ²)	max. span (mm)		
		5.0	6.0	9.5
SRW L 25/15/8/15 d = 0.5 mm		1400	1300	
SRW L 20/20/20/20 d = 0.7 mm		1800	1500	1200
SRW L 25/15/10/15 d = 1.0 mm		1900	1600	1300
SRW L 42/20/23/24 d = 1.5 mm		2500	2500	2500

SYSTEM I BANDRASTER SYSTEM



By using Bandraster grid System I offers parallel suspension sections that can be adapted to the architecture of the building. Lightweight partitions can be installed under the Bandraster sections. Lateral bracing is achieved with either exposed or concealed sections. Ceiling planks can be made either demountable or non-accessible.

FACE PATTERNS

THERMATEx®

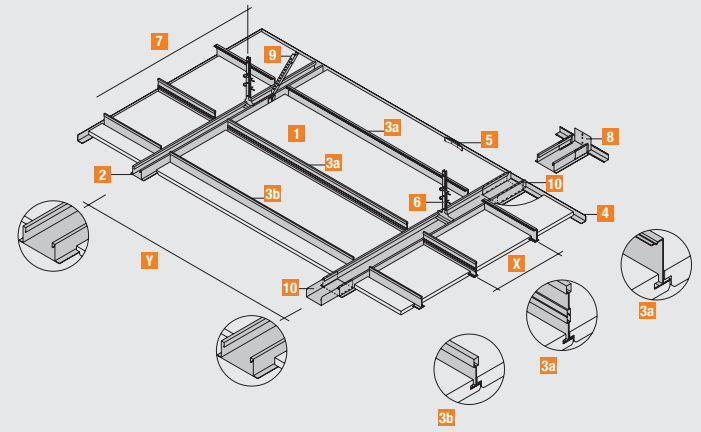
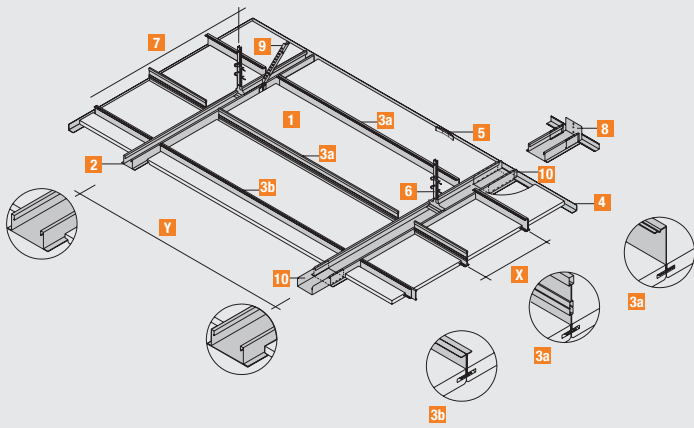
- Plain
- Fine Stratos
- Fine Stratos micro perf.
- Star
- Mercure
- Fine Fresko
- Fresko

See page 76 for illustrations



SYSTEM I Parallel Bandraster Construction Type I1

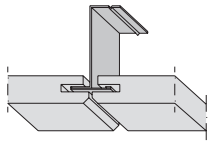
Parallel Bandraster Construction Type I2



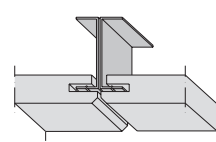
Edge Details

non-accessible

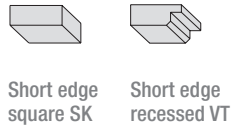
demountable



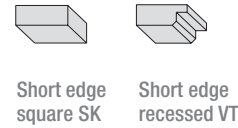
Z section,
long edge concealed GN



C section,
long edge concealed GN

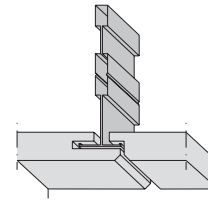


Short edge square SK Short edge recessed VT

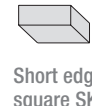


Short edge square SK Short edge recessed VT

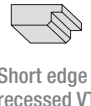
Edge Details



T section,
long edge shiplap AW



Short edge square SK



Short edge recessed VT

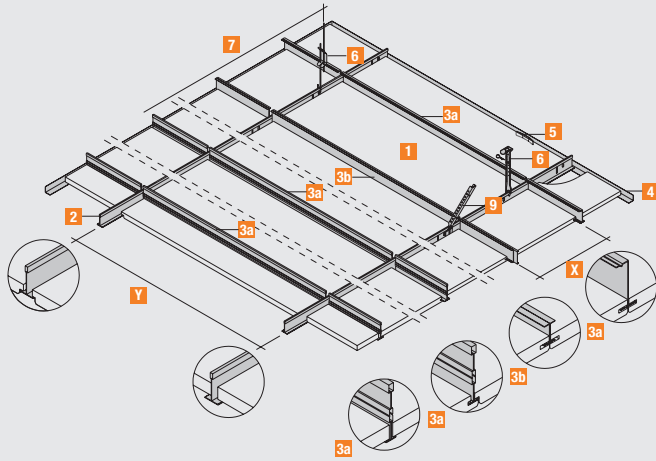
Long edge concealed GN / short edge square SK or recessed VT demountable / non-accessible

Long edge shiplap AW / short edge square SK or recessed VT demountable

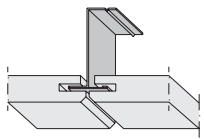
Grid size mm			Y							
			X	300 x 1800	300 x 2000	300 x 2500	312.5 x 1800	312.5 x 2000	312.5 x 2500	400 x 2000
AMF Mineral panel	1	pcs	1.85	1.67	1.33	1.78	1.60	1.28	1.25	1.00
Main runner Bandraster (I1 and I2) PH 50 / 100 / 150	2	lin.m.	0.56	0.50	0.40	0.56	0.50	0.40	0.50	0.40
Main runner T-grid (I3) PH T24/38 or T35/38	2	lin.m.	0.56	0.50	0.40	0.56	0.50	0.40	0.50	0.40
PQT / Z cross tee (one piece)	3a	lin.m.	3.33	3.33	3.33	3.20	3.20	3.20	2.50	2.50
PQU two part cross tee	3b	lin.m.	6.67	6.67	6.67	6.40	6.40	6.40	5.00	5.00
RWL perimeter trim	4	lin.m.	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
RF perimeter wedge	5	pcs	0.17	0.15	0.12	0.17	0.15	0.12	0.15	0.12
Nonius hanger or alternative	6	pcs	0.45	0.40	0.32	0.45	0.40	0.32	0.40	0.32
Distance of suspension to DIN 18168	7	m	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
Main runner centres	Y	mm	1800	2000	2500	1800	2000	2500	2000	2500
Tile width	X	mm	300	300	300	312.5	312.5	312.5	400	400
options (depending on types of suspension and systems)										
PRB Bandraster wall fixing	8	pcs	0.15	0.14	0.12	0.15	0.14	0.12	0.14	0.12
Nonius angled hanger	9	pcs	0.31	0.28	0.22	0.31	0.28	0.22	0.28	0.22
PHV Bandraster connector	10	pcs	0.15	0.14	0.12	0.15	0.14	0.12	0.14	0.12

To choose the correct long edge section for the panel size, please consult the table above. If the Nonius hangers are used, 2 no. Sti security pins are required for hanger. The table is applicable to construction types I1 to I3.

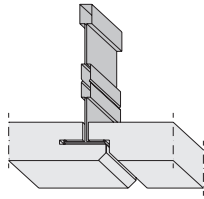
SK: square edge, VT: recessed, GN: concealed, AW: shiplap. For installation guidelines please see page 46 - 47. For further tile sizes please see the price list. Additional accessories are also itemised in the price list.



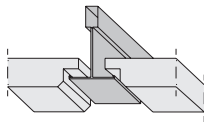
Edge Details



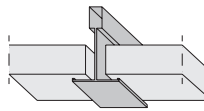
Z section, long edge recessed GN



T section, long edge square AW



T section, long edge recessed VT



T section, long edge square SK



Short edge square SK

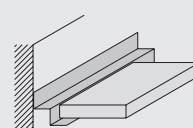


Short edge recessed VT

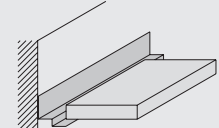


Short edge square SK

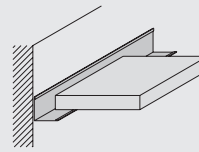
Long edge shiplap AW or concealed GN or square SK or recessed VT, short edge square SK / demountable / non-accessible



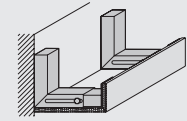
SRW
42 x 20 x 23 x 24 mm



SRW
25 x 15 x 10 x 15 mm

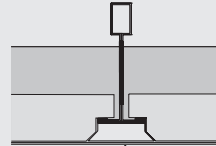


RWL
31 x 31 mm



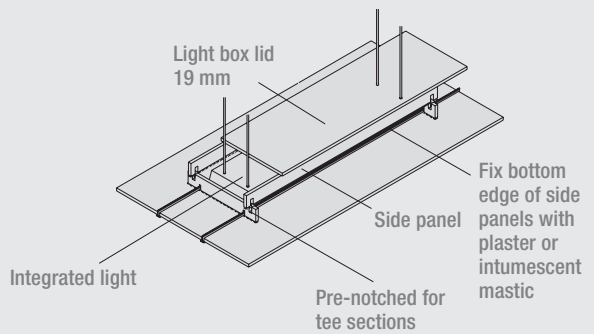
AMF - Wall angle

For Type I3 edge detail VT



Filler pieces AMF FUE - 15 / 24

Fire-resistant light box for integrated luminaires. Test reports should be followed. Light fittings to be independently suspended.



Wall angle / Filler piece / Fire-Resistant Light Box



SYSTEM **A** CONCEALED SYSTEM



System A creates a smooth monolithic appearance that is achieved by concealing the metal suspension components. Ceiling tiles can be either demountable or non-accessible depending on requirements.

FACE PATTERNS

THERMATEX®

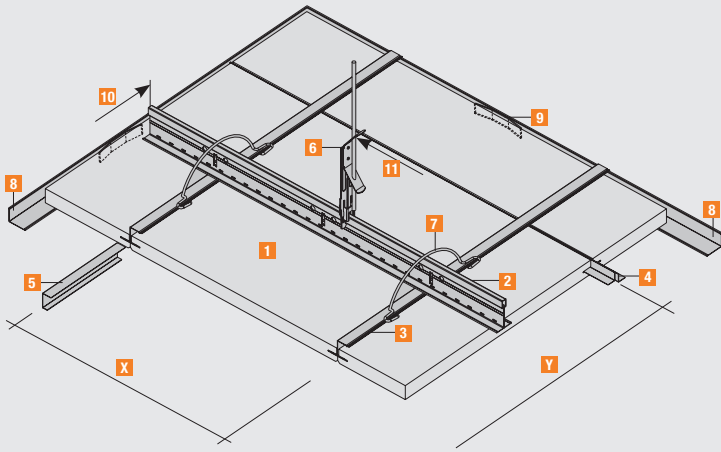
- Plain
- Fine Stratos
- Fine Stratos micro perf.
- Star
- Mercure

See page 76 for illustrations

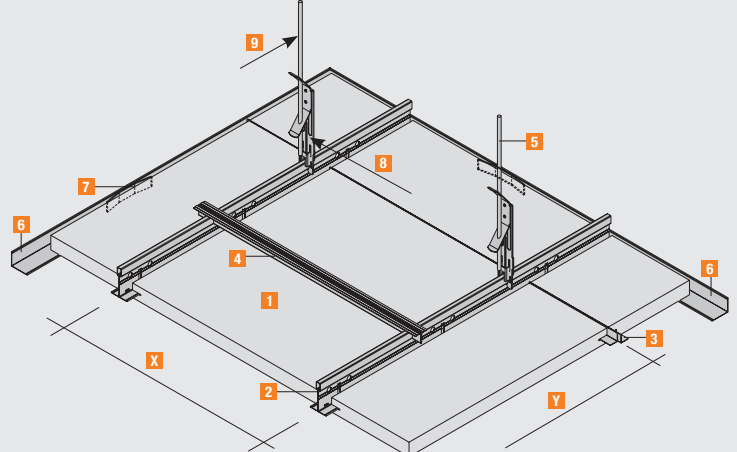


SYSTEM A

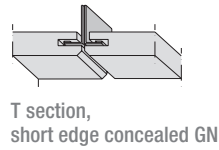
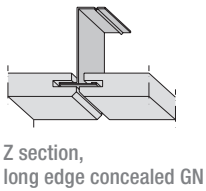
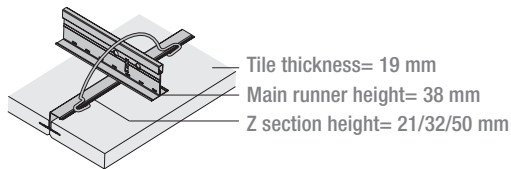
Concealed Grid Construction Type A1



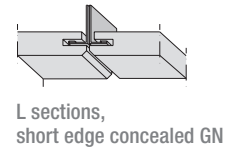
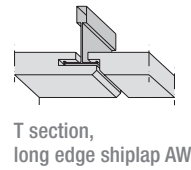
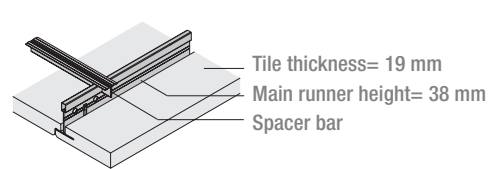
Concealed Grid Construction Type A2



Edge Details



Edge Details



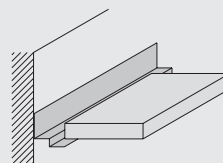
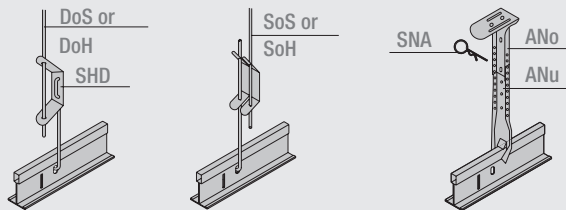
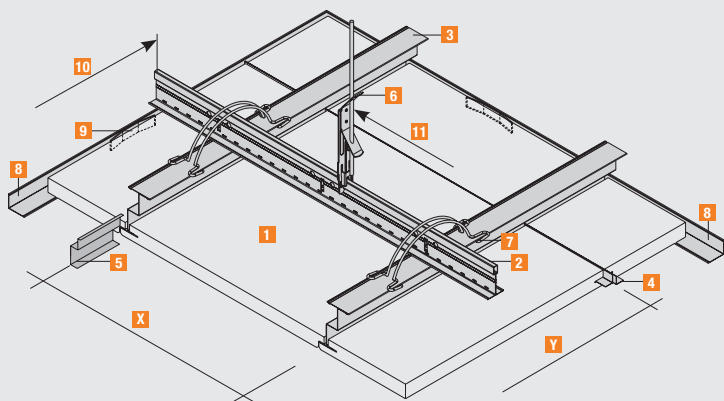
Edge GN/GN non-accessible

Edge AW/GN demountable

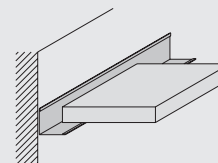
Grid size in mm		Y	600 x 600	625 x 625	300 x 1200	312.5 x 1250
		X				
AMF-Mineral panel	1 pcs		2.78	2.56	2.78	2.56
VENTATEC® T-Main runner T24/38 - 3750	2 lin.m		0.80	0.80	0.80	0.80
Z section PHZ 19/21-4000	3 pcs		1.67	1.60	3.34	3.20
T-Cross tee PT17/12	4 pcs		2.78	2.56	2.78	2.56
Z connector PH 400	5 pcs		0.42	0.40	0.84	0.80
Adjustable hanger BS 10	6 pcs		0.64	0.64	0.64	0.64
Wire clip UKTL	7 pcs		1.34	1.28	2.67	2.56
Perimeter trim RWL	8 lin.m		0.60	0.60	0.60	0.60
Perimeter wedge RF	9 pcs		0.30	0.30	0.30	0.30
Main runner centres max.	10 m		1.25	1.25	1.25	1.25
Suspension distance max.	11 m		1.25	1.25	1.25	1.25

Grid size in mm		Y	600 x 600	625 x 625	300 x 1200	312.5 x 1250
		X				
AMF-Mineral panel	1 pcs		2.78	2.56	2.78	2.56
VENTATEC® T-Main runner T24/38 - 3750	2 lin.m		1.67	1.60	3.34	3.20
L-Cross tee PQL 600 / 625 or PQL 300 / 312.5	3 pcs		5.56	5.12	5.56	5.12
Spacer bar - DI 600 / 625 or 300 / 312.5 *	4 pcs		1.39	1.28	2.78	2.56
Adjustable hanger SoS or SoH	5 pcs		1.39	1.28	2.78	2.67
Perimeter trim RWL	6 lin.m		0.60	0.60	0.60	0.60
Perimeter wedge RF	7 pcs		0.30	0.30	0.30	0.30
Main runner centres max.	8 m		0.60	0.63	0.30	0.30
Suspension distance is	9 m		1.20	1.25	1.20	1.25

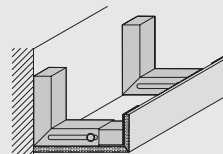
*Spacer bar every 2 tiles



SRW
25 x 15 x 8 x 15 mm



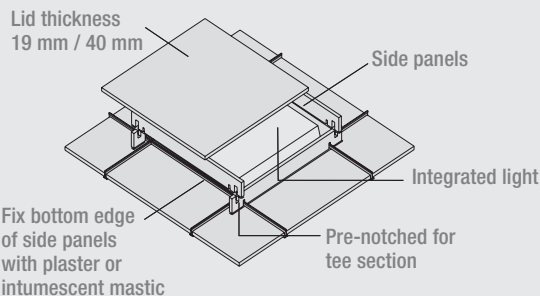
RWL
24 x 24 mm



AMF - Wall angle

Fire-resistant light box for integrated luminaires.

Grid: 600 x 600 mm / 625 x 625 mm / 300 x 1200 mm / 312.5 x 1250 mm
 Panel thickness: 19 mm
 Height: 100 mm
 Further sizes and heights are available on request.



Lid thickness
19 mm / 40 mm

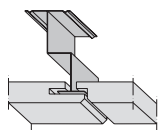
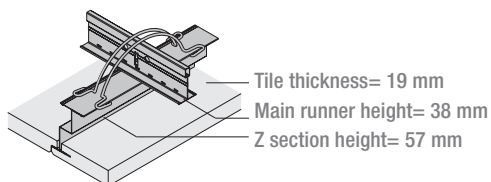
Side panels

Integrated light

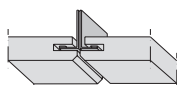
Fix bottom edge
of side panels
with plaster or
intumescent mastic

Pre-notched for
tee section

Edge Details



Deep offset Z section,
long edge shiplap AW

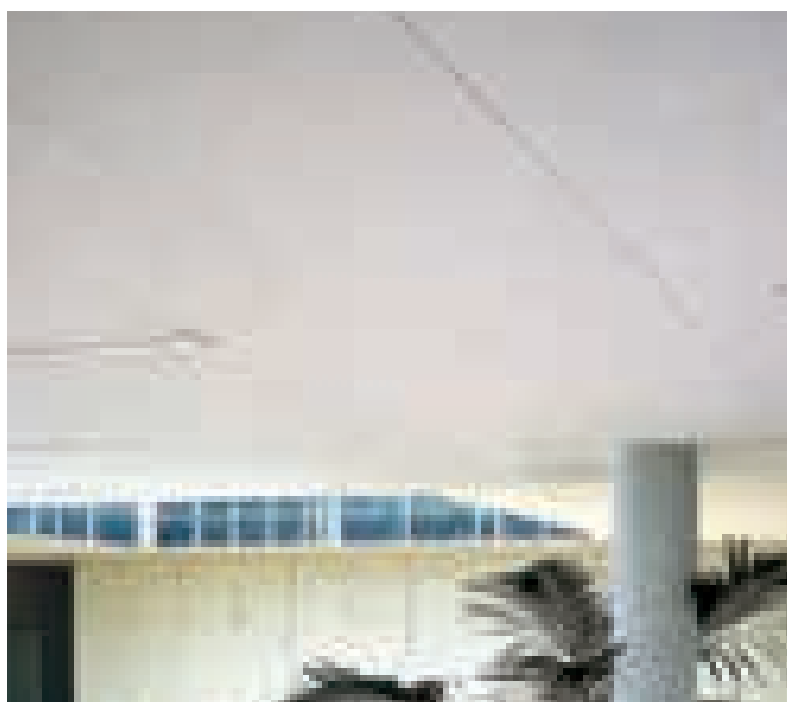


L section,
short edge concealed GN

Edge AW/GN demountable

Suspension / Wall angle / Fire-Resistant Light Box

Grid size in mm		Y	600 x 600	625 x 625	300 x 1200	312,5 x 1250
		X				
AMF-Mineral panel	1 pcs		2.78	2.56	2.78	2.56
VENTATEC® T-Main runner T24/38 - 3750	2 lin.m		0.80	0.80	0.80	0.80
Deep offset Z section ZP 19/57/34-4000	3 lin.m		1.67	1.60	3.34	3.20
L-Cross tee PQL 600 / 625 or PQL 300 / 312.5	4 pcs		5.56	5.12	5.56	5.12
Z connector ZPV	5 pcs		0.42	0.40	0.84	0.80
Adjustable hanger BS 10	6 pcs		0.64	0.64	0.64	0.64
Wire clip UKTL	7 pcs		2.67	2.56	5.34	5.12
Perimeter trim RWL	8 lin.m		0.60	0.60	0.60	0.60
Perimeter wedge RF	9 pcs		0.30	0.30	0.30	0.30
Main runner centres max.	10 m		1.25	1.25	1.25	1.25
Suspension distance at max.	11 m		1.25	1.25	1.25	1.25





■ DRAFT SPECIFICATIONS AND TECHNICAL INFORMATION

For copies of draft specifications please

telephone +49 (0) 1805 - 54 22 00,
fax +49 (0) 1805 - 54 22 55,
email ATE@amf-grafenau.de

Full technical information, assessments, test reports, samples etc. are available on request.

We recommend you consult AMF staff for all AMF systems subject to authoritative approval.

■ MATERIAL CALCULATION

Note: Material Calculations

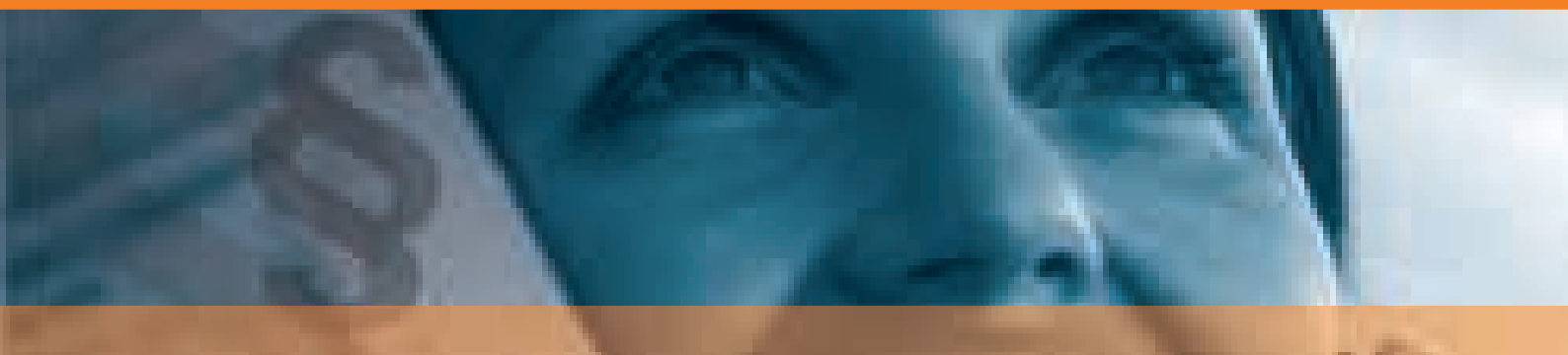
The specified quantities are guideline figures only excluding wastage. Variable amounts will be required for different room sizes. Any additional weight from light fittings, insulation etc. must also be calculated.

The depth and thickness of the main runners and wall angles are dependent on the span, panel thickness and panel size. Contact the technical department for further information.

■ INSTALLATION GUIDELINES

Installation should not start until the building is weathertight with windows glazed, all wet trades completed and dried out and the building suitably heated. AMF Ceiling Panels are intended for interior use within a temperature range of 15-30 degrees C. All warranties are as per our Conditions of Sale.

■ PLEASE ASK FOR FREE AMF INSTALLATION GUIDELINES.



■ IMPORTANT ADVICE

Due to reproduction processes colours shown in this catalogue may differ from the actual product colour.

Product selection should always be made from 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 on jobs.

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.knaufamf.com.

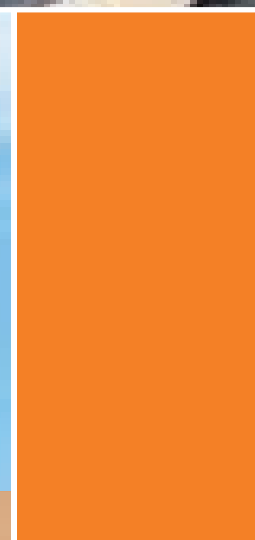
This catalogue supersedes all previous editions.

Errors and omissions excepted.

Printing errors excepted.

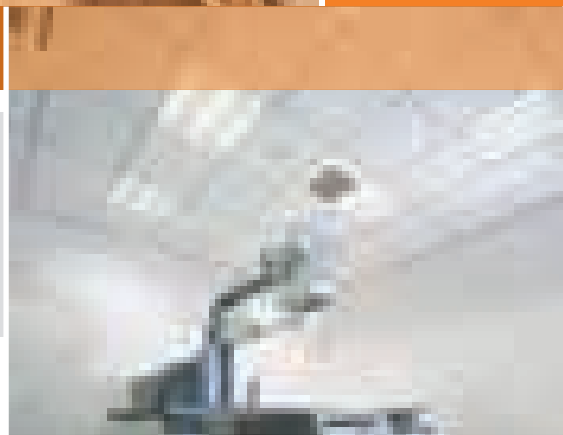
AMF PROJECTS

GERMANY



SIEMENS TMC, ERLANGEN

- | | |
|-------------|--|
| Project | ■ Siemens TMC, Erlangen, Germany |
| AMF-Product | ■ System I / THERMATEX® Acoustic / AW / SK |
| Size | ■ 2,500 m ² |

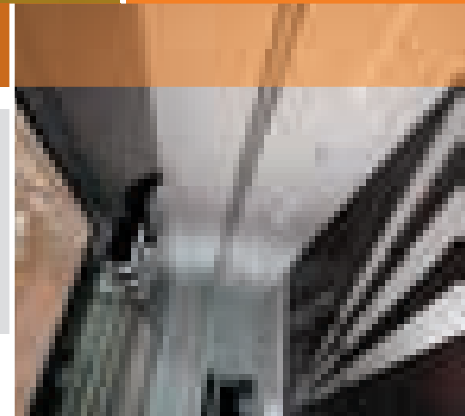


GERMANY



ADIDAS BRAND CENTER, HERZOGENAURACH

- Project ■ Adidas Brand Center, Herzogenaurach, Germany
- Architect ■ Querkraft, Vienna
- AMF-Product ■ System I / THERMATEX® Acoustic / AW / SK
- Size ■ 5,000 m²



AMF PROJECTS

POLAND



CENTER FOR FILM AND TELEVISION PRODUCTION ATM STUDIO, WARSAW

Project	■ Center for Film and Television Produktion ATM Studio, Warsaw, Poland
Architect	■ Biuro Projektowe Studio Forma
AMF-Product	■ System C / THERMATEX® Antaris A / VT-S 15 System C / THERMATEX® Antaris C / SK System C / THERMATEX® Alpha HYGENA / SK
Size	■ 5,089 m ²

AUSTRIA

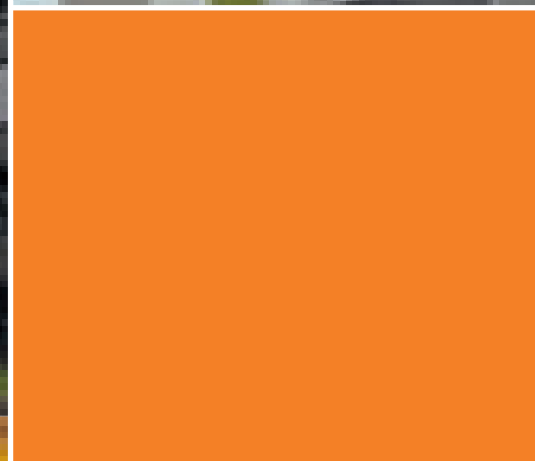


ERDBERGERLÄNDE, VIENNA

Project	■ Erdbergerlände, Vienna, Austria
AMF-Product	■ System C / THERMATEX® Star / SK
Size	■ 18,500 m ²

AMF PROJECTS

FRANCE



TECHNOPÔLE, MEUDON

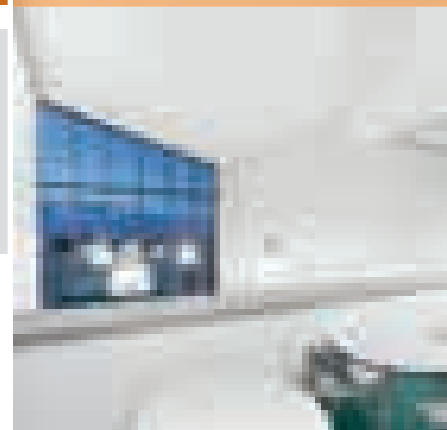
Project	■ Technopôle, Meudon, France
Architect	■ Valode & Pistre, Paris
AMF-Product	■ System I / THERMATEX® Fine Stratos micro Comfort 24 mm, VT-S-15-F
Size	■ 37,000 m ²

GREAT BRITAIN



CASTLE VIEW ENTERPRISE ACADEMY, SUNDERLAND

- Project ■ Castle View Enterprise Academy, Sunderland, Great Britain
- Architect ■ Space Architects
- AMF-Product ■ System C / THERMATEX® Acoustic / SK
System C / THERMATEX® Alpha / SK
System C / THERMATEX® Thermaclean S / SK
System C / THERMATEX® Mercure and Fine Stratos / SK
- Size ■ 7,000 m²



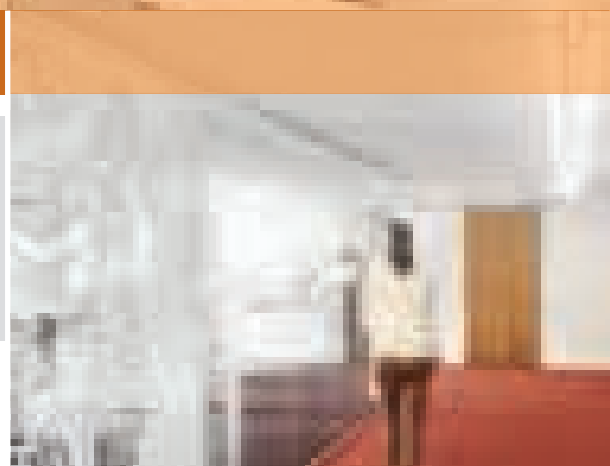
AMF PROJECTS

GERMANY



GRUNDEIGENTÜMER INSURANCE, HAMBURG

Project	■ Grundeigentümer Insurance, Hamburg, Germany
Architect	■ DD-Architektur
AMF-Product	■ System C / THERMATEX® SF Acoustic
Size	■ 1,300 m ²



GREAT BRITAIN

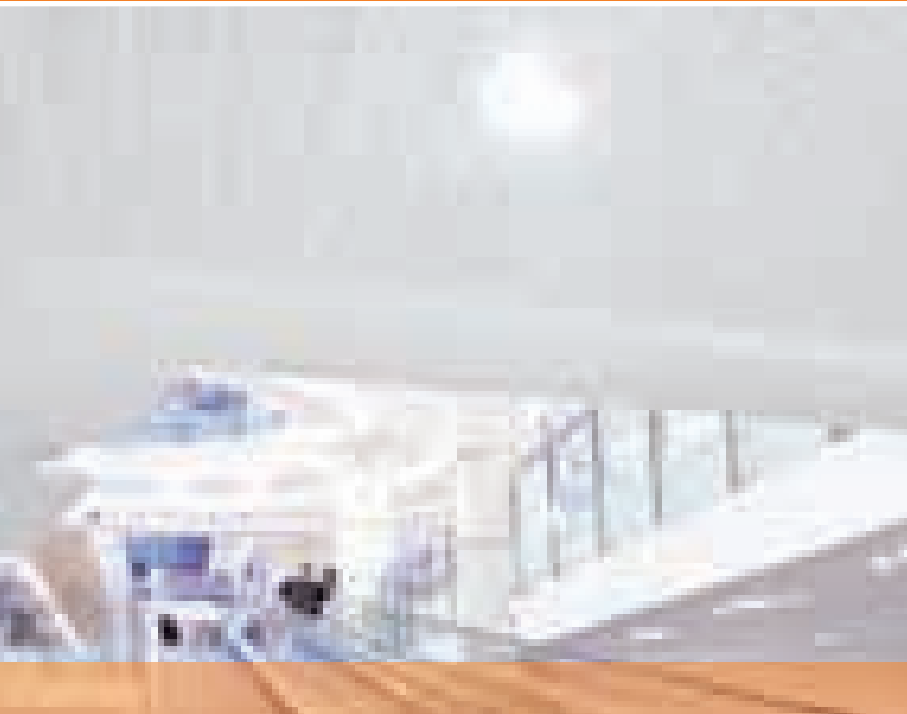


CINEMA ODEON „NEW IMAX CINEMA“, GATESHEAD

Project	■ Cinema Odeon „New Imax Cinema“, Gateshead, Great Britain
Architect	■ Chapman Taylor Partners
AMF-Product	■ System C / THERMATEX® Alpha black / SK
Size	■ 3,500 m ²

AMF PROJECTS

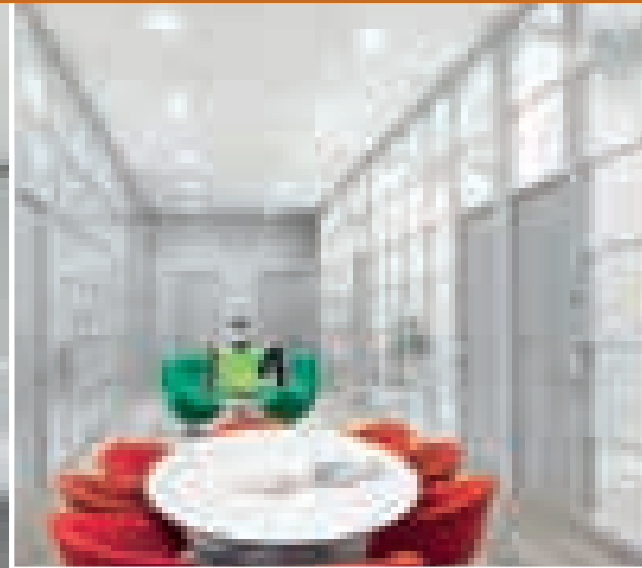
BULGARIA



HERMES PARK, SOFIA

Project	■ Hermes Park, Sofia, Bulgaria
Architect	■ Ilian Iliev
AMF-Product	■ System I / THERMATEX® Symetra Rg 4-16 / 4x4, AW / SK System C / THERMATEX® Symetra Rg 4-16 / 4x4, SK System C / THERMATEX® Alpha black / SK System I / THERMATEX® Fine Stratos / AW / SK
Size	■ 40,000 m ²

NETHERLANDS



STADHUIS, ZAASTAD

Project	■ Stadhuis, Zaanstad, Netherlands
Architect	■ Soeters van Eldonk
AMF-Product	■ System F, System I / THERMATEX® Acoustic / AW / SK
Size	■ 4,000 m ²



SERVICE



Advice and planning

AMF supports you in the planning phase for a project through:

- Sales offices world-wide with trained technical staff to give individual advice
- Expert advice either by telephone or on site.
- Assistance with complex questions through an office located near you or through the parent company in Grafenau.
- Design and installation proposals with the appropriate calculations.



Product development and support

We define service as starting before the order is placed and finishing once the ceiling has been successfully installed.

- Development of new products in cooperation with customers and with a creative network of system partners, test institutes and in-house development team.
- Monitoring of the despatch of goods from the factory to their punctual arrival.
- Support for complex projects from our sales managers



Training

On-going product improvements and new developments create the need for training. In the new AMF FORUM we offer:

- Fire protection and acoustics seminars for architects
- Training for contractors and technicians
- Workshops for government bodies

Additional training takes place locally and abroad.

Information / Internet

Answers to many technical problems and creative proposals can be found on our website

www.knaufamf.com

You can find all documents as pdf-files under the literature section

- Product folders for the complete product range
- Architectural file with all catalogues and technical data
- Price list for the complete product range
- Technical documents
- Test certificates for different countries
- Sample boxes
- CD-ROM with draft specifications

QUALITY STANDARDS



CE marking



The abbreviation stands for European Conformity and CE marking harmonises individual country regulations and technical norms. Within the European domestic market trade restraints are diminished and a mutual acceptance of universal guidelines by member states.

The fundamental requirements for these guidelines are health (for example, asbestos and formaldehyde content); security (for example, fire protection, corrosion resistance, humidity stability); and protection of both property and the environment.

The main criteria for the CE marking of ceiling products and ceiling systems are the Construction Products Directive 89/106/EEC and European Standard EN 13964.



Quality assurance as per ISO 9001



Product quality has always been central for AMF. To reach even higher standards the decision was taken in 1996 to introduce a Quality Management System in accordance with ISO 9001, certification being provided by an external testing authority.

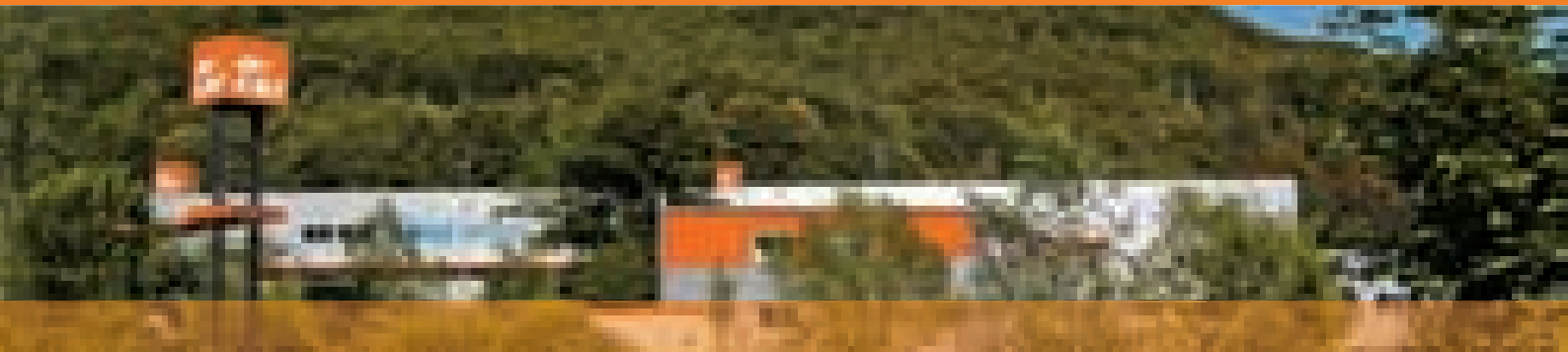
The aim of product quality improvement was to increase customer satisfaction. Quality management means AMF can enhance the effectiveness of its production processes, personnel interfaces and operational management.

RAL - seal of approval



The RAL Seal of Approval guarantees the quality and safety of mineral wool products. Materials with the RAL designation are strictly tested, independently monitored and subject to in-depth research. The RAL Seal guarantees adherence to both European and German guidelines and regulations for bio-soluble mineral wool fibres.

ENVIRONMENT AND RECYCLING



Environmental safety standard ISO 14001



In 2002 the decision was made to increase the scope for our Quality Management certification and to adopt ISO 14001, the standard governing the management of environmental systems.

The location of AMF in the natural surrounding of the Bavarian Forest commits the company to environmental improvement. Reductions in emissions, lowering energy consumption and taking positive steps to input environmentally friendly resources are central to AMF. The environmental management system commits the company to comply with - and where possible exceed - applicable legal requirements.

Blue Angel



The Blue Angel is the first and most well-known eco-label worldwide. Since 1978 it has set the standard for eco-friendly products and services selected by an independent jury in line with defined criteria. The Blue Angel is awarded to companies as kind of a reward for their commitment to environmental protection. They use it to professionally promote their eco-friendly products in the market. The Blue Angel is an ecological beacon showing the consumer the way to the ecologically superior product and promotes environmentally conscious consumption.

Environment and recycling



Environmental protection starts with the manufacturing process. By selecting the right raw materials we can maximise efficient manufacture of the product for its life cycle. Setting the standard in production procedures and improvements in machinery and technology contribute to crucial reductions in energy use and minimal emissions of pollutants.

The closed production cycle means that water used in the process is recycled several times while dust, off cuts and waste material are reused in the manufacturing operation.

Eliminating unnecessary packaging and reducing waste is a vital part of the business. To reduce pollution as much as possible, AMF uses only untreated wood for making pallets, waste paper for cardboard packing and pure PE foil for shrink-wrapping.

In spite of the product's long life cycle AMF tiles are able to be recycled. Printing on the back of the tile ensures that the raw materials used can be identified.

TECHNICAL TERMS



Acoustics

Correct room acoustics comprise of two key issues: sound insulation and sound absorption.

Sound absorption

Sound absorption is defined as the loss of sound energy when striking the perimeter surfaces of a room or objects within that space. This loss is primarily due to conversion of the sound energy into heat and partly through transmission.

Sound Insulation

Sound insulation is a general term describing the ability of a structure to impede the transmission of sound energy from one space to another. Between internal rooms the sound attenuation is measured as the weighted normalised level difference $D_{n,c,w}$.

An overview of the acoustic values of our classic ceiling systems can be found on pages 66 and 67.

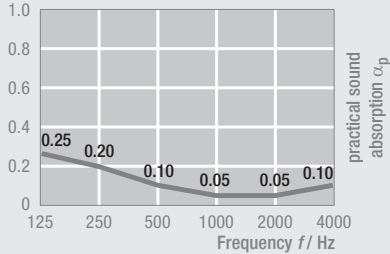
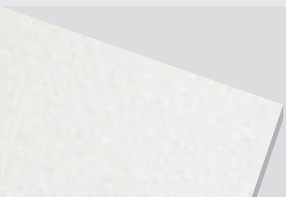
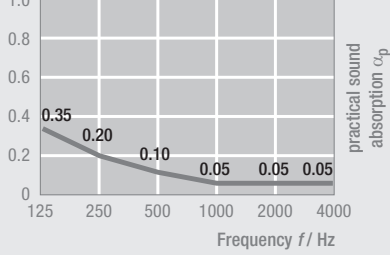
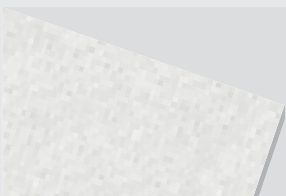
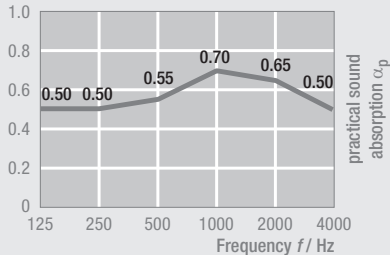




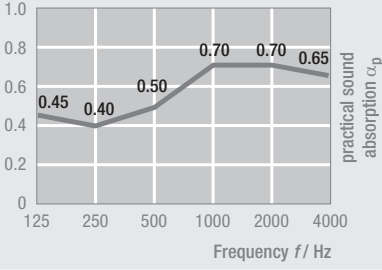

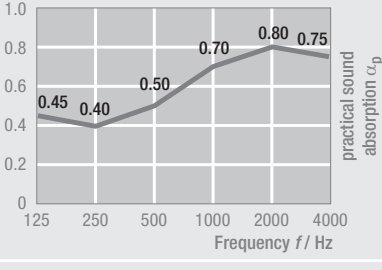

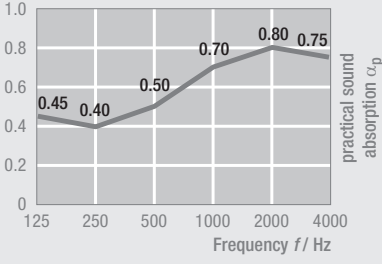
Fire protection

To safeguard both people and property AMF Ceiling systems are tested to international standards including BS 476: Parts 20 to 23. Ceilings are tested as independent membranes as well as under floors and structural ceilings. Fittings such as luminaires and loudspeakers are incorporated within the test procedure. Depending on the type of test AMF ceilings can reach up to 120 minutes fire protection.

We have put a list of the most important test results for our classic ceiling systems on pages 68 and 69.

ACOUSTIC VALUES

Product	thickness in mm	$D_{n,c,w}$ (BS EN 20140-9)	$\alpha_{e,w}$ (ISO 11654)	<i>NRC</i> (ASTM C 423)	Suspension height in mm	Sound Absorption class (ISO 11654)	Sound Absorption
Plain THERMATEX® surfaces							
 Plain (Schlicht)	15.0	34	0.10 (L)	0.10	200	n.k.	
 Fine Stratos	15.0	34	0.10 (L)	0.15	200	n.k.	
 Laguna	15.0	34	0.10 (L)	0.10	200	n.k.	
Textured and micro perforated THERMATEX® surfaces							
 Fine Stratos micro	15.0	34	0.60	0.60	200	C	
 Laguna micro	15.0	34	0.60	0.60	200	C	
 Star	15.0	34	0.60	0.60	400	C	

Product	thickness in mm	$D_{n,c,w}$ (BS EN 20140-9)	$\alpha_{s,w}$ (ISO 11654)	<i>NRC</i> (ASTM C 423)	Suspension height in mm	Sound Absorption class (ISO 11654)	Sound Absorption														
Fissured THERMATEX® surfaces																					
 Mercure	15.0	34	0.60	0.60	400	C	 <table border="1"> <caption>Sound Absorption Data for Mercure</caption> <thead> <tr> <th>Frequency f / Hz</th> <th>practical sound absorption α_p</th> </tr> </thead> <tbody> <tr><td>125</td><td>0.45</td></tr> <tr><td>250</td><td>0.40</td></tr> <tr><td>500</td><td>0.50</td></tr> <tr><td>1000</td><td>0.70</td></tr> <tr><td>2000</td><td>0.70</td></tr> <tr><td>4000</td><td>0.65</td></tr> </tbody> </table>	Frequency f / Hz	practical sound absorption α_p	125	0.45	250	0.40	500	0.50	1000	0.70	2000	0.70	4000	0.65
Frequency f / Hz	practical sound absorption α_p																				
125	0.45																				
250	0.40																				
500	0.50																				
1000	0.70																				
2000	0.70																				
4000	0.65																				
 Fine Fresko	15.0	34	0.60 (H)	0.60	200	C	 <table border="1"> <caption>Sound Absorption Data for Fine Fresko</caption> <thead> <tr> <th>Frequency f / Hz</th> <th>practical sound absorption α_p</th> </tr> </thead> <tbody> <tr><td>125</td><td>0.45</td></tr> <tr><td>250</td><td>0.40</td></tr> <tr><td>500</td><td>0.50</td></tr> <tr><td>1000</td><td>0.70</td></tr> <tr><td>2000</td><td>0.80</td></tr> <tr><td>4000</td><td>0.75</td></tr> </tbody> </table>	Frequency f / Hz	practical sound absorption α_p	125	0.45	250	0.40	500	0.50	1000	0.70	2000	0.80	4000	0.75
Frequency f / Hz	practical sound absorption α_p																				
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 Fresko	15.0	34	0.60 (H)	0.60	200	C	 <table border="1"> <caption>Sound Absorption Data for Fresko</caption> <thead> <tr> <th>Frequency f / Hz</th> <th>practical sound absorption α_p</th> </tr> </thead> <tbody> <tr><td>125</td><td>0.45</td></tr> <tr><td>250</td><td>0.40</td></tr> <tr><td>500</td><td>0.50</td></tr> <tr><td>1000</td><td>0.70</td></tr> <tr><td>2000</td><td>0.80</td></tr> <tr><td>4000</td><td>0.75</td></tr> </tbody> </table>	Frequency f / Hz	practical sound absorption α_p	125	0.45	250	0.40	500	0.50	1000	0.70	2000	0.80	4000	0.75
Frequency f / Hz	practical sound absorption α_p																				
125	0.45																				
250	0.40																				
500	0.50																				
1000	0.70																				
2000	0.80																				
4000	0.75																				

FIRE PROTECTION: BRITISH STANDARDS

British Standards and British Building Regulations set out requirements for the fire behaviour of building materials in accordance with the following main criteria:

- Reaction to Fire
- Structural Fire Protection
- Special Fire Resistant Elements

Fire Protection includes passive and active measures. Passive fire control provisions are specified to enable the building to withstand a fire for a given time period. The levels of passive fire control depend on both reaction to fire and structural fire protection.

AMF ceiling tiles provide a high standard of fire protection within buildings. This performance is both in control of the development and spread of fire as well as structural fire resistance. AMF ceiling tiles have been tested in accordance with different parts of BS476 and national fire regulations of other European countries.

FIRE PROTECTION TO MEZZANINE FLOOR ASSEMBLY

A mezzanine floor assembly protected by AMF THERMATEX® mineral ceiling tiles in a fire-rated exposed grid system was subjected to a fire resistance test in accordance with BS476:Part 21, Clause 7. The specimen satisfied the performance criteria for the following periods:

Loadbearing capacity:	Integrity:	Insulation:
90 minutes	89 minutes	89 minutes

Warrington Fire Research Centre Report No. 102642 dated 20 July 1998

- AMF THERMATEX® mineral wool ceiling tiles size 600 x 600 x 15 mm with a square (SK) edge detail were used in the test.
- The AMF ceiling was suspended 350 mm below the underside of the chipboard flooring panels and 150 mm below the underside of the supporting mild steel joists.
- All tiles were installed in the fire-rated exposed grid system without hold-down clips.
- AMF fire-rated grid was installed with main runners at 1200 mm centres which were then generally suspended from the steel joists at 1200 mm centres.
- A 600 x 600 mm light fitting was incorporated into the ceiling and protected by an AMF FIRE-RESISTANT LIGHT BOX.
- Warrington Fire Research Centre Report No. C120024 provides assessments for the use of AMF recessed (VT) edge detail tiles to give 60 minutes fire protection to the mezzanine floor assembly.

FIRE PROTECTION TO TIMBER FLOOR ASSEMBLY

A timber floor assembly protected by AMF THERMATEX® mineral ceiling subjected to a fire resistance test in accordance with BS 476: Part 21: Clause 7. The specimen satisfied the performance criteria for the following periods:

Loadbearing capacity:	Integrity:	Insulation:
72 minutes	72 minutes	72 minutes

Warrington Fire Research Centre Report No.117523 dated 16 July 2001

- The timber floor assembly comprised 19 mm thick softwood floor boards with a 3 mm hardboard covering nailed to softwood joists size 225 x 47 mm.
- The ceiling tiles used were AMF THERMATEX® mineral wool size 600 x 600 x 15 mm with a recessed edge (VT) detail.
- All tiles were installed in the fire-rated exposed grid system without hold-down clips.
- The fire-rated grid was installed with main runners at 1200 mm centres which were then generally suspended from the timber joists at 1200 mm centres.
- A 600 x 600 mm light fitting was incorporated into the ceiling and protected by an AMF FIRE-RESISTANT LIGHT BOX.

SURFACE DESIGNS

The AMF THERMATEX® range of mineral wool ceiling tiles offers a wide choice of face patterns and designs. All provide 60 minutes fire protection to mezzanine floors, timber joists and steel beams in accordance with BS476:Parts 20 to 23.

IMPORTANT

The test results stated above relate only to the specimen tested. Installation must be carried out in accordance with the test report data, as any variation from these conditions may affect the fire protection capabilities of the ceiling system. For comprehensive description of tests and test specimens, reference must be made to the appropriate full document.



Plain



Fine Stratos micro



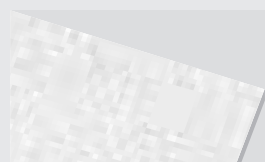
Laguna micro



Star



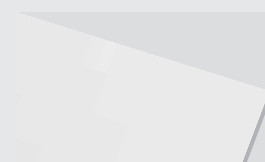
Mercure



Fine Fresko

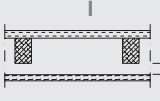
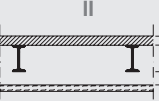
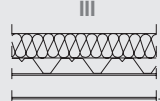


Fresko

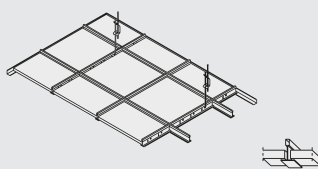


Thermaclean S -white

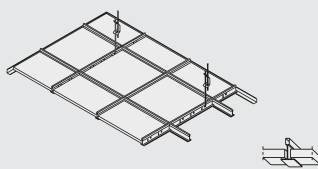
FIRE PROTECTION: BRITISH STANDARDS

System diagram	Soffit type to British Standard 476			AMF panels			Test certificate
	I  Timber joists BS476:Part21:Clause7	II  Steel beams BS476:Part23	III  Mezzanine floor BS476:Part21:Clause7	Reaction to Fire	Thickness	Ceiling grid size	Test Report No.
	Fire resistance class				mm	mm	

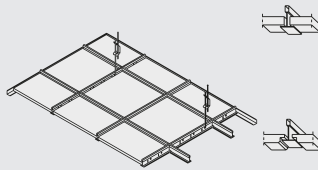
SYSTEM C - exposed grid

	90 min			Class 0 / A2- s1,d0	19	600 x 1200	WFRC. NO 55481 BS 476: Part 23.
	90 min				19		

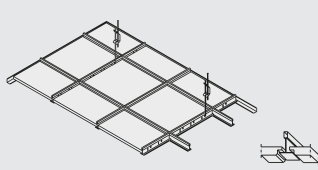
SYSTEM C - exposed grid

	60 min		60 min	Class 0 / A2- s1,d0	15	1200 x 600 600 x 600	WFRC. NO C120024+ 102642 BS 476: Part 21: Clause 7.
	60 min		60 min		15		

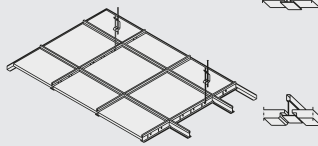
SYSTEM C - exposed grid

	60 min			Class 0 / A2- s1,d0	15	600 x 1200	WFRC. NO C120025 BS 476: Part 23.
	60 min				15		

SYSTEM C - exposed grid

	60 min			Class 0 / A2- s1,d0	15	600 x 600	WFRC. NO 117523 BS 476: Part 21: Clause 7.
	60 min				15		

SYSTEM C - exposed grid

	60 min			Class 0 / A2- s1,d0	15	600 x 600	WFRC. NO 102765 / 107637 BS 476: Part 23.
	60 min				15		

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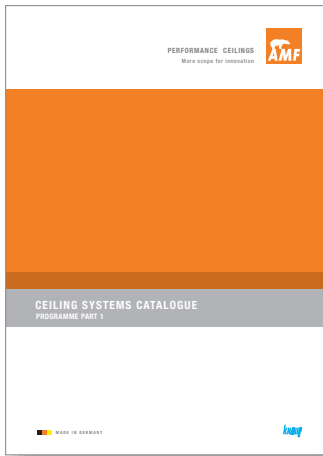
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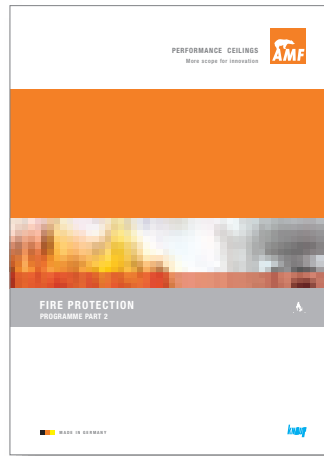
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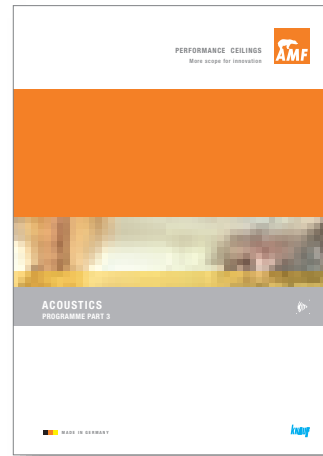
AMF PROGRAMME



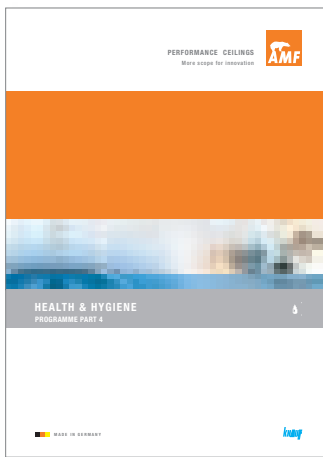
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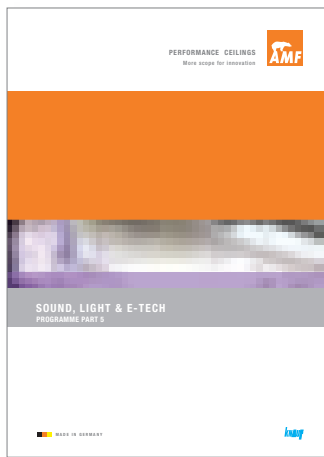
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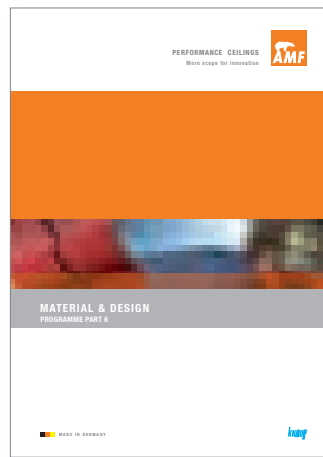
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Part 4

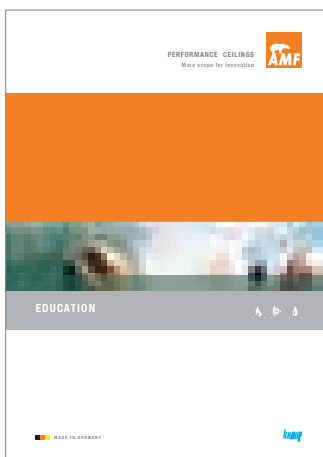


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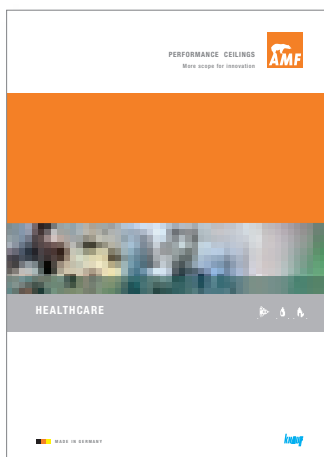


Part 6

AMF APPLICATIONS



Part 1



Part 2

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



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C Clean Room Concealed System	Part 4 Health & Hygiene Part 1 Ceiling Systems Catalogue	T THERMATEx® Acoustic THERMATEx® Alpha ONE THERMATEx® Alpha THERMATEx® Alpha HD THERMATEx® Aquatec THERMATEx® Comfort THERMATEx® Comfort dB THERMATEx® dB Acoustic THERMATEx® SF Acoustic THERMATEx® Thermaclean S THERMATEx® Thermofon THERMATEx® Varioline	Part 3 Acoustics Part 3 Acoustics Part 3 Acoustics Part 3 Acoustics Part 4 Health & Hygiene Part 3 Acoustics Part 3 Acoustics Part 3 Acoustics Part 3 Acoustics Part 4 Health & Hygiene Part 3 Acoustics Part 6 Material & Design
D Dual F30	Part 2 Fire Protection	U Uno F30	Part 2 Fire Protection
E Exposed System	Part 1 Ceiling Systems Catalogue	V Ventatec	Part 1 Ceiling Systems Catalogue
F Fire resistance: steal beams Fine Fresko Fine Stratos / -micro Fire resistance: timber joists Free Span System F Fresko	Part 2 Fire Protection Part 1 Ceiling Systems Catalogue Part 1 Ceiling Systems Catalogue Part 2 Fire Protection Part 1 Ceiling Systems Catalogue Part 1 Ceiling Systems Catalogue		
H Hygena	Part 4 Health & Hygiene		
K Kombimetall	Part 3 Acoustics		
L Laguna / -micro Light Ceilings	Part 1 Ceiling Systems Catalogue Part 5 Sound, Light & E-tech		
M Mercure Metall	Part 1 Ceiling Systems Catalogue Part 6 Material & Design		
P Plain	Part 1 Ceiling Systems Catalogue		

PROGRAMME



Part 1 CEILING SYSTEMS CATALOGUE

CLASSIC FACES



THERMATEX®
Plain

THERMATEX®
Fine Stratos

THERMATEX®
Laguna

THERMATEX®
Fine Stratos
micro

THERMATEX®
Laguna
micro



THERMATEX®
Star

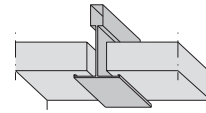
THERMATEX®
Mercure

THERMATEX®
Fine Fresko

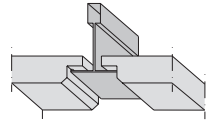
THERMATEX®
Fresko

EDGE DETAILS

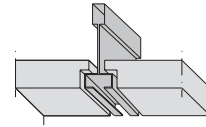
SK



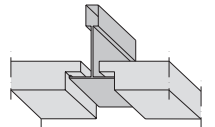
VT 15 / 24



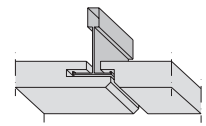
VT - S 15 F



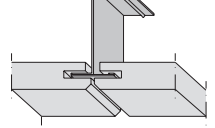
VTS 15 / 24



AW



GN



AMF - SPECIAL PROGRAMME

Part 3 ACOUSTICS



THERMATEX®
Acoustic /
dB Acoustic

THERMATEX®
Silence

THERMATEX®
Alpha / Alpha ONE /
Alpha HD

THERMATEX®
Alpha
black, creme, silver

THERMATEX®
Thermofon

THERMATEX®
Acoustic RL

THERMATEX®
Kombimetall
white similar to RAL 9010
perforated

Part 4 HEALTH & HYGIENE

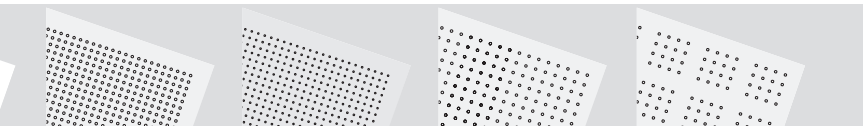


THERMATEX®
Aquatec

THERMATEX®
Thermaclean S
white

THERMATEX®
Kombimetall
white similar to
RAL 9010 plain

Part 6 MATERIAL & DESIGN



THERMATEX®
Symetra
Rg 4 - 10

THERMATEX®
Symetra
Rg 2,5 - 10

THERMATEX®
Symetra
Rg 4 - 16

THERMATEX®
Symetra
Rg 4 - 16 / 4 x 4
hole blocks



THERMATEX®
Symetra
RS 15/20

METALL Symetra
white similar to
RAL 9010 plain

METALL Symetra
white similar to RAL
9010 perforated

THERMATEX®
Varioline wood
Oak

THERMATEX®
Varioline wood
Ash

THERMATEX®
Varioline wood
Birch

THERMATEX®
Varioline wood
Cherry (US)



THERMATEX®
Varioline wood
Larch

THERMATEX®
Varioline wood
Cherry (european)

THERMATEX®
Varioline metal
Rg 1,0 - 3,0

THERMATEX®
Varioline metal
Rg 2,5 - 5,5

THERMATEX®
Varioline metal
Rg 1,5 - 2,8D

THERMATEX®
Varioline metal
Qg 3,0 - 8,5

THERMATEX®
Varioline motif

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AMF PROGRAMME:

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Part 2 FIRE PROTECTION

Part 3 ACOUSTICS

Part 4 HEALTH & HYGIENE

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Part 6 MATERIAL & DESIGN

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The Construction Production Directive (Council Directive 89/106/EWG), 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.



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- THERMATEX® ACOUSTIC RANGE
- ECOMIN

