



07/2008

**PERFORMANCE CEILINGS**  
More scope for innovation



**FIRE PROTECTION**  
PROGRAMME PART 2



 **MADE IN GERMANY**





## RESPONSIBILITY FOR PEOPLE AND ASSETS



■ NORBERT FIGGE, ARCHITECT, DETLEFSEN&FIGGE ARCHITECTURE FIRM, KIEL

Fire protection means preventing the outbreak and spread of fire and smoke.

The protection of health and life is of utmost importance to the people located within the building.

That's why specific requirements on fire resistance period and fire behaviour, based on a classification of the type and usage of the building, need to be fulfilled.

The objective is to provide the rescue and fire fighting teams with a sufficiently safe environment to evacuate the people from the building and, where applicable, bring any valuable objects to safety.

The quality of the building materials used often plays a decisive role in determining whether a fire is able to spread unhindered or is contained at the seat of the fire and able to be extinguished quickly and successfully.

In the case of German public buildings, the properties of escape routes is regulated on the basis of the fire protection ordinances of the German Federal States. These stipulate, for example, that the escape routes must remain intact and smoke-free for a specified period of time. They must not contain any flammable building materials or furnishings and must be segregated into individual fire zones.

By rigorously adhering to the fire protection ordinances during planning and implementation, lives can be saved and material and intangible damages minimized.

AMF has been manufacturing special and certified fire protection systems for this purpose for several decades. AMF's in-house and field technicians can provide support both in the planning and implementation phase of any building project that has fire protection requirements.

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We have restructured our product catalogues to make it easier for you to find what you are looking for. This is Part 2 of our catalogue series; it contains our fire protection ceiling products. Parts 1 and 3 – 6 of our catalogue series contain comprehensive information about our other product lines. You can obtain these catalogues by filling out the reply card at the end of this catalogue or simply by downloading them from [www.amfceilings.co.uk](http://www.amfceilings.co.uk)



# FIRE RESISTANCE



## STRUCTURAL FIRE PROTECTION

Structural fire protection involves the classification of the suspended ceiling – tiles and grid system – and the structure requiring protection.

AMF THERMATEX ceiling systems provide a high standard of fire protection within buildings.

- 60 minutes fire protection to a mezzanine floor assembly. BS476:Part 21:Clause 7.
- 60 minutes fire protection to a timber floor assembly. BS476:Part 21:Clause 7.
- 60 minutes fire protection to steel beams. BS476:Part 23: Clause 5.

## INDEPENDENT FIRE PROTECTION

Specialist fire protection ceilings are tested for fire resistance as an independent membrane irrespective of the type of soffit or floor assembly.

AMF offers a range of products that provide independent fire protection.

- F30 Uno
- F30 Dual
- F30 Mono



# FIRE CLASSIFICATION



## Reaction to Fire

■ BS476:Parts 6 and 7 are used to classify the reaction to fire performance of building products.

Reaction to fire involves tests to materials which measure the extent to which internal surfaces contribute to the spread of flames. The objective of these fire protection tests is to control the development and spread of a fire, thus helping to extend the escape period.

For fire protecting ceilings both the exposed and cavity surfaces of the products are tested in accordance with the standards. BS476:Part 7:1997 is the Surface Spread of Flame test where the best performance is Class 1. BS476:Part 6:1989 is the Fire propagation test that measures the combustibility of the product and gives a defined performance.

Ceiling tiles that meet the Class 0 requirement of Building Regulations will assist in minimising the contribution that the structure makes to the growth of a fire in a given space. This rating is achieved by Class 1 Surface Spread of Flame performance; and a Fire Propagation Index not exceeding 12 and sub-index not exceeding 6 in accordance with BS476:Part 6.





## Reaction to Fire

AMF ceiling products have been successfully tested to BS476:Parts 6 and 7 and conform to Class 0 as defined by Building Regulations. All products have been tested on their decorative front and reverse faces.

Product	Class 1 Surface Spread of Flame- BS476: Part 7	Fire Propagation- BS476: Part 6	Class 0	Report No.
<b>Mineral Panels</b>				<b>WFRC</b>
THERMATEX high density mineral wool	*	*	*	125451/125452 125455/125456
<b>Mineral Panels</b>				<b>WFRC</b>
THERMATEX Acoustic high density mineral wool	*	*	*	141759/141760 141768/141769
<b>Mineral Panels</b>				<b>WFRC</b>
THERMACLEAN Foil-faced panels	*	*	*	123203/123204 123205/123206
<b>Wood Ceiling Panels</b>				
FIBRAFUTURA wooden panels	*	*	*	107330/107331/ 107334/107335
<b>Metal Ceiling Panels</b>				<b>WFRC</b>
KOMBIMETALL mineral / metal plank	*	*	*	107332/107333/ 107336/107337



# EUROPEAN CLASSIFICATIONS

## REACTION TO FIRE

BS EN 13501-1 is the European Standard used to assess and classify building materials according to their fire behaviour. The Euroclass test method is built around the Single Burning Item (SBI) procedure which evaluates the rate of fire growth within a specified space.

Building Regulations Approved Document B has requirements that are categorised in terms of the Euroclass system.

Euroclass	Approved Document B requirement
A1	Non-combustible
A2	Material of limited combustibility
B	Class 0
C	Class 1
D	Class 3

In terms of performance A1 is the best reaction to fire class with F being the worst. The Euroclass system also measures the generation of smoke, rated from s1 – the least smoke produced – to s3; and flaming droplets which are measured from d0 – no flaming droplets – to d2.

AMF THERMATEX products are classified as A2-s1,d0 in accordance with BS EN 13501-1 and are thus classified as materials of limited combustibility. The tiles perform considerably better than the minimum requirement for ceiling products as stipulated by Building Regulations Approved Document B, namely, B-s3,d2.

## Fire resistance

There is a requirement for suspended ceilings to provide independent fire protection from both above and below. European Standard BS EN 1364-2 Non-loadbearing Ceilings applies to ceiling membranes which are either suspended by hangers; fixed directly to a supporting frame or construction; and to self-supporting ceilings.

Testing is carried out with fire from below, or with fire from above, where the fire is contained in a closed cavity. Any fixtures or fittings – such as recessed luminaires – which form an integral part of the ceiling must be included in the test specimen.

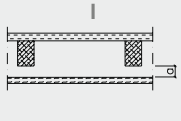
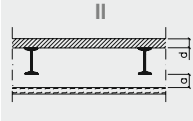
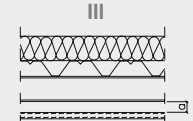
The performance criteria of integrity (E) and insulation (I) is measured for a fire resistance period, for example, over 30 minutes.

European Standard EN 1365-2 assesses the fire performance of floors when exposed to fire from below. This can be tested with or without a suspended ceiling. If a ceiling system is supported from the floor construction the suspension components should reflect what is used in practice. Grid systems must be tightly fitted without gaps to enable correct evaluation of the effects of thermal expansion on the suspension components.

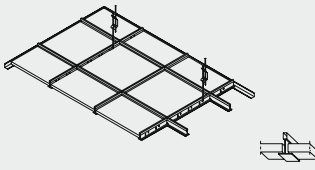
The test specimen is tested to perform against the criteria of integrity (E), insulation (I) and loadbearing capacity (R).



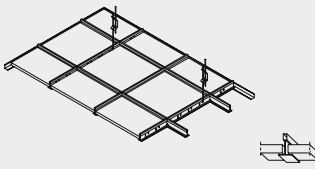
## FIRE RESISTANCE TESTS TO BRITISH STANDARDS

System diagram	Soffit type to British Standard 476:Parts 20 to 23			AMF panels			Test certificate
	I  Timber joists BS476:Part21:Clause7	II  Steel beams BS476:Part23:Clause5	III  Mezzanine floor BS476:Part21:Clause7	Reaction to Fire	Thickness	Ceiling grid size	
	Fire resistance class				mm	mm	Test Report No. Copies of test reports are available from AMF technical department on Tel: +44 (0) 20 88 92 32 16 or +49 (0) 8552-422 53

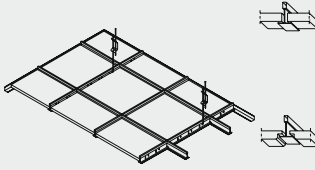
### SYSTEM C - EXPOSED GRID

	90 min			Class 0 / A2-s1,d0	19	600 x 1200	WFRC. NO 55481 BS 476: Part 23: Clause 5.
	90 min				19		

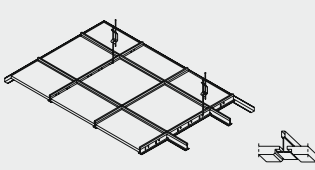
### SYSTEM C - EXPOSED GRID

	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		

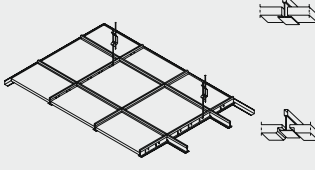
### SYSTEM C - EXPOSED GRID

	60 min			Class 0 / A2-s1,d0	15	600 x 1200	WFRC. NO C120025 BS 476: Part 23: Clause 5.
	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: Clause 5.
	60 min				15		



# MEZZANINE FLOOR FIRE PROTECTION BS476: Part 21

Higher land and rental costs have resulted in an increase in the construction of mezzanine floors within buildings to make the best use of available space. Within retail stores, offices, production facilities and self-storage units, mezzanine floors are often the ideal solution for companies needing to expand without the expense and disruption of relocating the business.

Mezzanine floors require fire protection and this can be provided by a suspended ceiling. BS476:Part 21 is the test method that is used to assess the fire resistance of a complete floor assembly consisting of a suspended ceiling and floor structure.

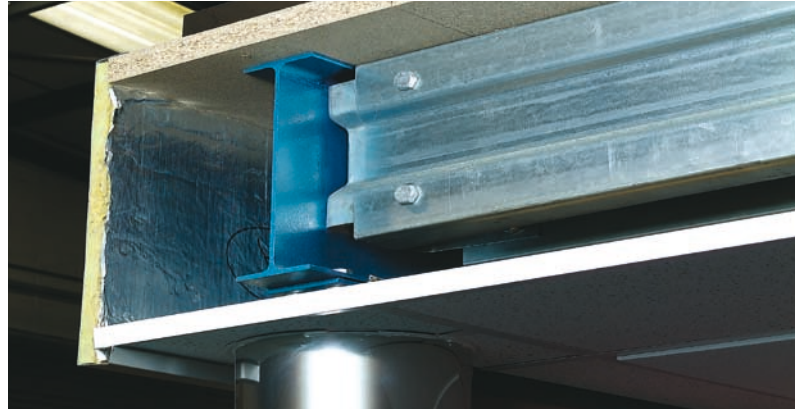
AMF THERMATEX ceiling tiles installed in a fire-rated exposed grid system under a mezzanine floor will provide 60 minutes fire protection, satisfying the performance criteria as follows:

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

Warrington Fire Research Centre Report No. 102642.

Key performance features are:

- AMF THERMATEX high density mineral tiles 600 x 600 x 15 mm square edge tiles used in the test.
- The AMF ceiling suspended 350 mm below the underside of the chipboard floor and 150 mm below the underside of the mild steel joist supports.
- No hold-down clips used in the test.
- Main runners installed at 1200 mm centres and suspended from the joists at 1200 mm centres.
- Recessed 600 x 600 mm light fitting protected by an AMF Light Box
- Warrington Fire Research Centre Report No. C120024 positively assesses the use of a VT24 recessed edge to provide 60 minutes fire protection.
- A range of AMF THERMATEX ceiling tile face patterns positively assessed to provide 60 minutes fire protection.

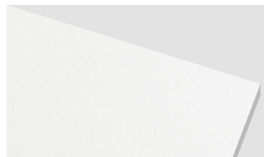


## Surface designs

The AMF THERMATEX range of high density 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.



THERMATEX Plain



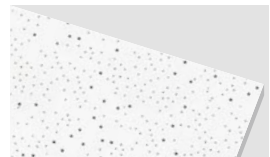
THERMATEX Fine Stratos micro



THERMATEX Laguna micro



THERMATEX Star



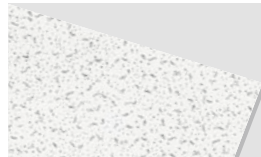
THERMATEX Pinhole



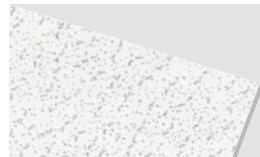
THERMATEX Mercure



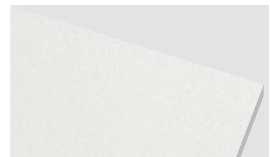
THERMATEX Saturn



THERMATEX Fine Fresko



THERMATEX Fresko



Thermaclean S -white

# TIMBER FLOOR FIRE PROTECTION BS476:Part 21



Timber floors are widely used in older commercial buildings. The low thermal expansion and conductivity of timber gives the material a certain resistance to fire; however this does not generally meet the requirements of Approved Document B of the Building Regulations. The fire resistance performance of a timber floor can be enhanced by the use of a fire-protecting suspended ceiling.

BS476:Part 21 is the test method that is used to assess the fire resistance of a complete floor assembly consisting of a suspended ceiling and floor structure. The floor structure is loaded during the test; typically this will be around 0.5 of the load ratio, as recommended by the testing authority.

AMF THERMATEX ceiling tiles installed in a fire-rated exposed grid system under a timber floor will provide 60 minutes fire protection, satisfying the performance criteria as follows:

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

Warrington Fire Research Centre Report No. 117523.

### Key performance features are:

- AMF THERMATEX high density mineral tiles 600 x 600 x 15 mm recessed edge (VT24) tiles used in the test
- The AMF ceiling suspended 350 mm below the underside of the chipboard floor and 150 mm below the underside of the mild steel joist supports.
- No hold-down clips used in the test.
- Main runners installed at 1200 mm centres and suspended from the joists at 1200 mm centres.
- Recessed 600 x 600 mm light fitting protected by an AMF Light Box.
- Warrington Fire Research Centre Report No. C120024 positively assesses the use of an SK square edge to provide 60 minutes fire protection.
- A range of AMF THERMATEX ceiling tile face patterns positively assessed to provide 60 minutes fire protection.

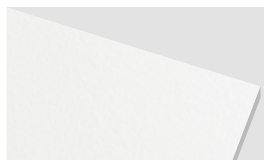


## Surface designs

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.



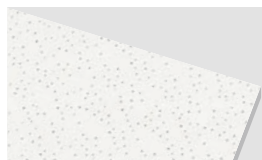
THERMATEX Plain



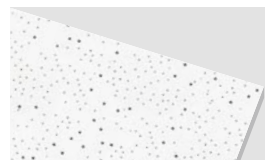
THERMATEX Fine Stratos micro



THERMATEX Laguna micro



THERMATEX Star



THERMATEX Pinhole



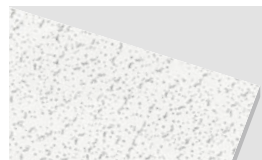
THERMATEX Mercure



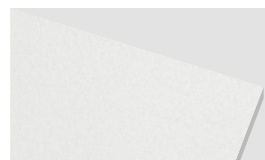
THERMATEX Saturn



THERMATEX Fine Fresko



THERMATEX Fresko



Thermaclean S -white

# FIRE PROTECTION TO STEEL BEAMS BS476:Part 23

A suspended ceiling can make a contribution to the fire performance of steel beams as an alternative to directly applied protection. The British Standard defines the size of the beams and monitors the temperature of the lower flange of the beam in a number of pre-determined locations.

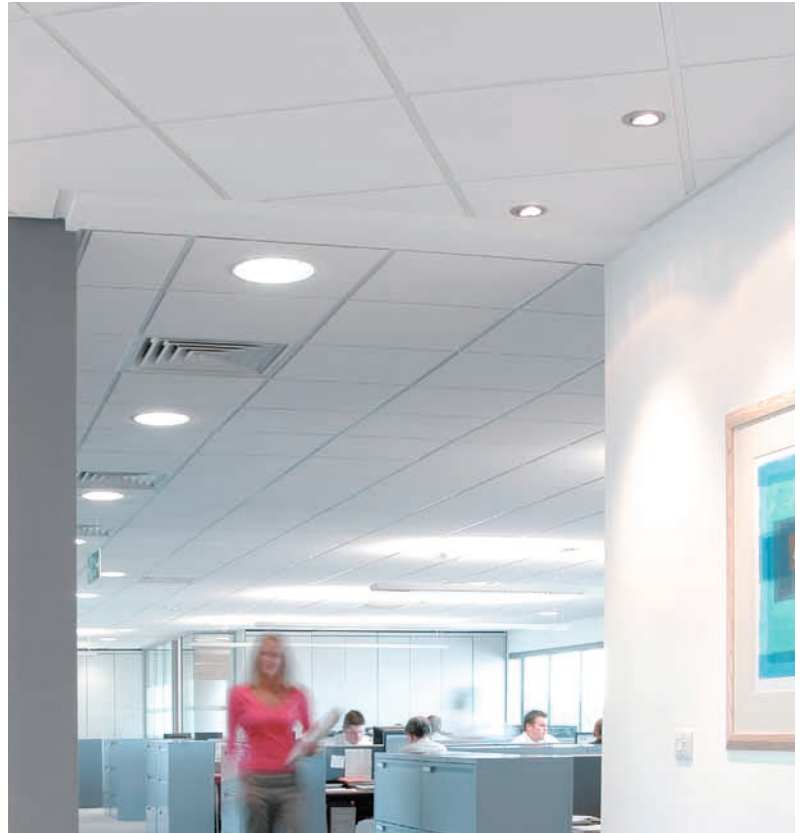
AMF THERMATEX ceiling tiles installed in a fire-rated exposed grid system will provide 60 minutes structural fire protection to both solid rolled steel beams and steel lattice beams in accordance with BS476:Part 23.

Warrington Fire Research Centre Report No. 55641.

Warrington Fire Research Centre Report No. C120025 positively assesses the following for BS476:Part 23:

- AMF THERMATEX high density mineral tiles 600 x 600 x 15 mm recessed edge (VT24) tiles may be used.
- Main runners installed at 1200 mm centres and suspended from the joists at 1200 mm centres.
- Recessed 600 x 600 mm light fitting protected by an AMF Light Box.
- A range of AMF THERMATEX ceiling tile face patterns positively assessed to provide 60 minutes fire protection.
- No hold-down clips required.

AMF THERMATEX mineral ceiling tiles are manufactured in a range 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.

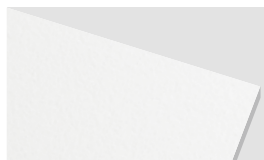


## Surface designs

The AMF THERMATEX range of high density 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.



THERMATEX Plain



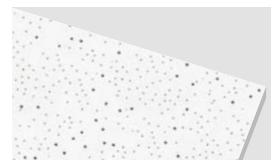
THERMATEX Fine Stratos micro



THERMATEX Laguna micro



THERMATEX Star



THERMATEX Pinhole



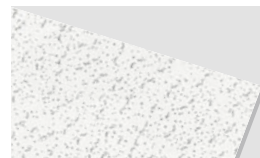
THERMATEX Mercure



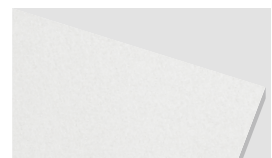
THERMATEX Saturn



THERMATEX Fine Fresko



THERMATEX Fresko



Thermaclean S -white

# AMF Fire Resistant Light Boxes



If an opening is made in a fire-rated ceiling to install a recessed light fitting, the fire-protecting capability of that ceiling is compromised.

Both Approved Document B of the Building Regulations and IEE Regulations require the sealing of penetrations in fire-resistant elements including ceilings, floors and walls.

AMF Light Boxes have been tested with recessed light fittings and maintained the fire integrity of the ceiling for a minimum period of 60 minutes.

This applies to both BS476:Part 23 and to Part 21.

Key performance features are:

- Quick and easy to install – no fixing clips required
- Tested under mezzanine and timber floors as well as steel beams
- Full certification from Warrington Fire Research Centre
- Reduces sound leakage through the light fitting
- Pre-mitred slots for side panel integration and location on the grid system
- Lightweight and self-supporting

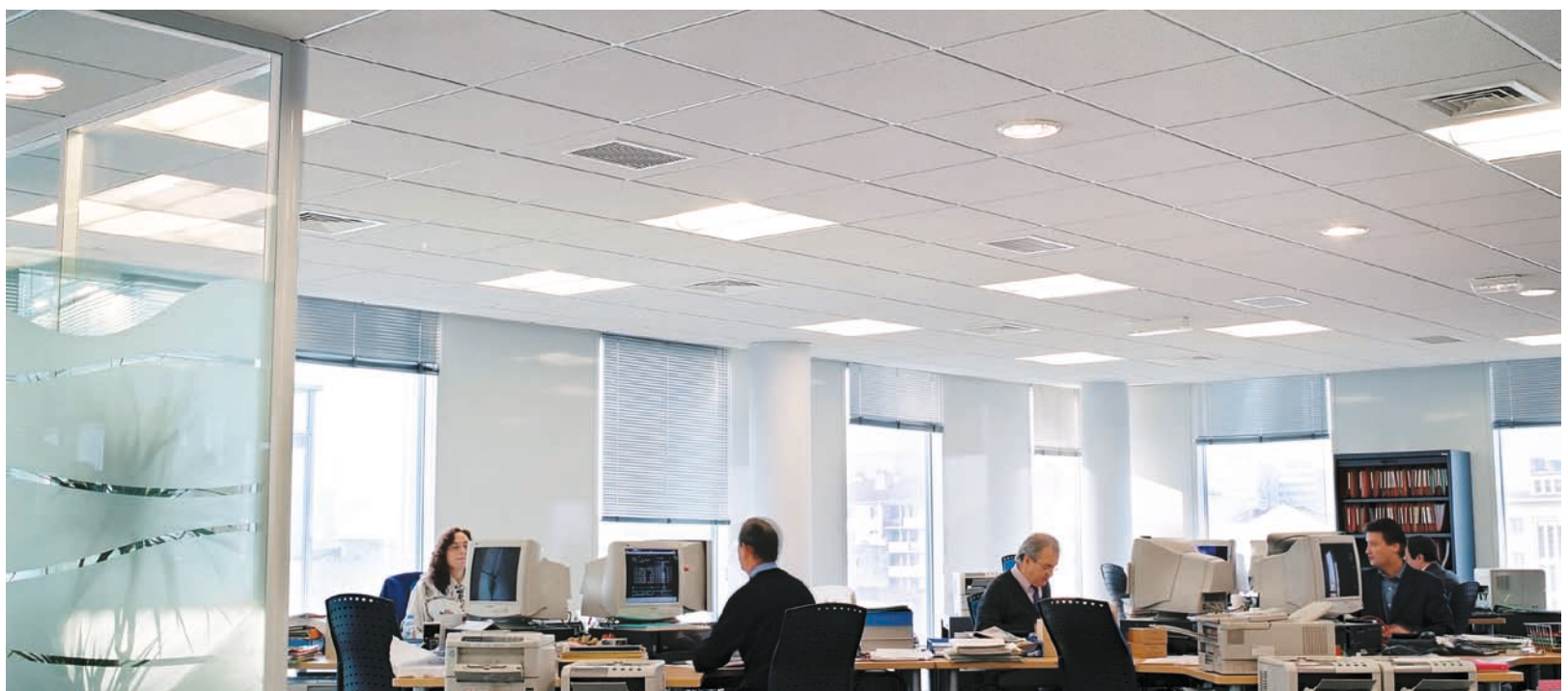
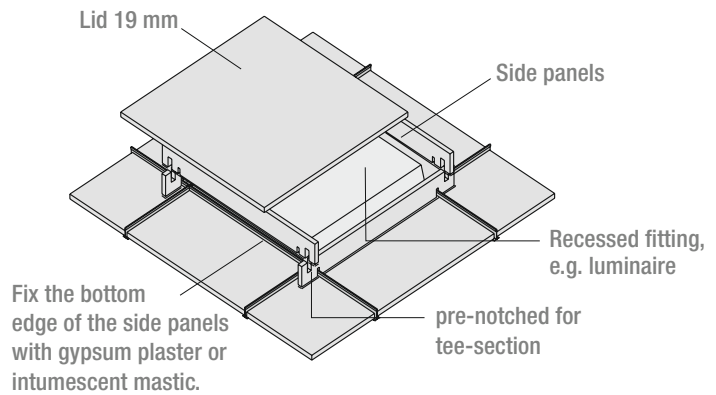
## Fire-resistant light box for recessed luminaires.

Module size: 600 x 600 mm / 1200 x 300 mm / 1200 x 600 mm

Panel thickness: 19 mm

Internal height: 100 mm (side panel)

Other formats and heights available on request



# LEGISLATION & INSURANCE



## ■ Building Regulations

Building Regulations 2000 Part B (England and Wales) and Building Standards Part D (Scotland) deal with aspects of fire safety for buildings with their main purpose being life safety. The documents specify minimum periods of fire resistance for building elements used in different purpose groups within the building.

## ■ Fire Insurance

The insurance industry requires building owners to ensure that principles of passive fire protection are used. The LPC Design Guide provides guidance on these principles – fire resistance, contribution to fire growth, compartmentation and external fire spread.

## ■ Fire Testing

AMF ceiling systems have been tested in laboratories throughout Europe to a variety of national testing standards as well as to the new European norms. Tests to BS476:Parts 20 to 23 as well as Parts 6 and 7 have been conducted at Bodycote Warrington Fire which is a UKAS accredited testing laboratory.

# INDEPENDENT FIRE PROTECTION



BS476:Part 22 evaluates the fire resistance or separating capabilities of ceiling membranes which shall not collapse; shall not permit the passage of flames; and shall restrict excessive temperature rise on the top surface of the ceiling. The ceiling has to meet both insulation and integrity criteria.

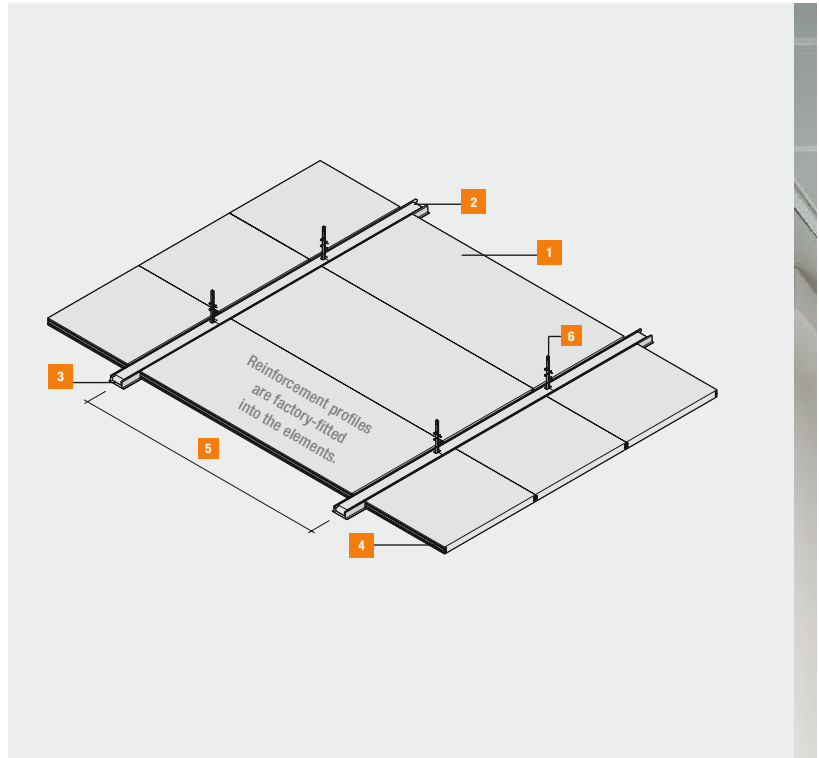
The Part 22 test is similar to the new European Standard EN1364-2 Non-loadbearing ceilings. This is applicable to ceilings which are either suspended by hangers or fixed directly to a supporting frame or construction; and to self-supporting ceilings. Testing is carried out in two ways: with fire from below and with fire from above, with the fire contained in a closed cavity.

AMF manufactures a range of self-supporting ceiling systems that meet these criteria in 30 minutes. Typical applications include escape corridors, stairwells and rooms within larger buildings such as offices in a warehouse. These independent fire protection ceilings also provide a smoke seal.

## AMF FIRE PROTECTION CEILINGS

- F30 Uno / + Metal
- F30 Dual + Metal
- F30 Mono

# SYSTEM F30 UNO / +METAL



- 1** 600 x 1400 x 40 mm or 50 mm  
Uno element for METAL FACE
- 2** 40 mm THERMACOR panel
- 3** 50 or 100 mm bandrafter
- 4** Reinforcement profile
- 5** Bandrafter at 1482 mm centres
- 6** Nonius hangers every 700 mm

## Construction

■ AMF System F30 uno provides fire protection from above and below. When fire attacks from the ceiling void, escape routes stay protected and smoke-free. When fire starts in the room or corridor, services above the ceiling are safe. AMF System F30 uno also offers outstanding acoustic performance as well as humidity resistance and hygiene properties.

The plank format of AMF System F30 uno can be used in both corridors and open areas; the large module size reduces installation time and gives easy access to the ceiling void. The short edges of the planks are supported by a bandrafter or main runner which is rigidly fixed to the structural ceiling. Long edges incorporate a factory-fitted steel profile with an integral intumescent strip which not only gives the necessary fire resistance but also provides a smoke seal.

### AVAILABLE FORMATS

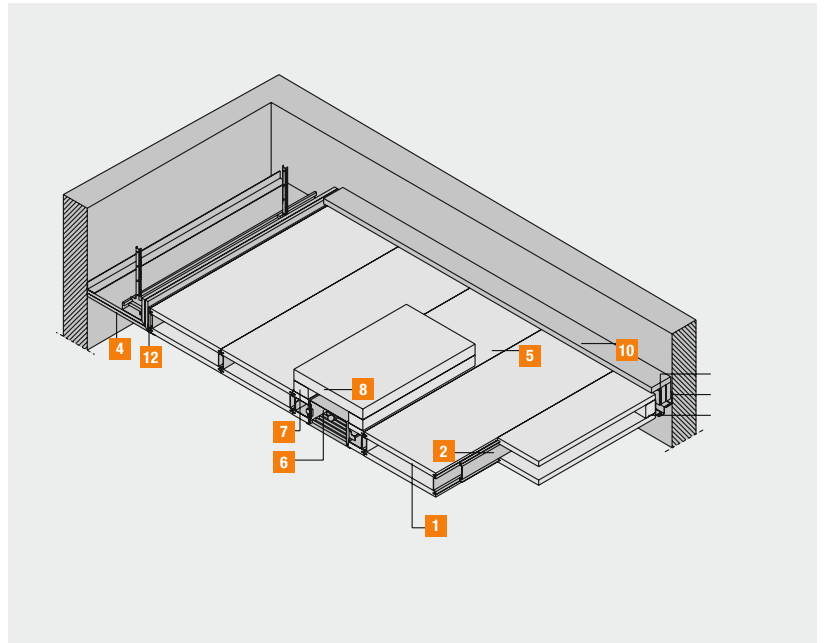
- 600 x 1400 mm
- 300 x 1800 mm, further formats available on request

### AVAILABLE SURFACE PATTERNS

#### THERMATEX

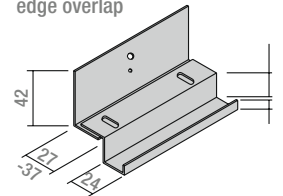
- Fine Stratos
- Fine Stratos, perforated
- Star
- Pinhole
- Metal in white similar to RAL 9010, plain
- Metal in white similar to RAL 9010, perforated

# SYSTEM F30 DUAL + METAL



- 1 Modular elements comprising 39 mm thick mineral panels at top and bottom
- 2 Steel edge profile
- 3 Panel head filler
- 4 Gypsum board margin
- 5 Lighting element
- 6 Flush-mounted light fitting
- 7 Spacer strip (mineral)
- 8 Light box (mineral)
- 9 Adjustable shadow trim
- 10 Fireboard strip
- 11 Wall insulation with intumescent strip
- 12 Wall insulation with mineral wool

ST-RWL-AK  
adjustable with  
edge overlap



AMF System F30 dual fire resistant ceilings are self-supporting modular panels that achieve fire protection from above – preventing fire in the void reaching the space below – and from below: protecting services in the ceiling void. System F30 dual panels have been successfully tested to DIN 4102.

AMF dual panels are prefabricated, making installation fast and easy. Light fittings can be integrated within the system. All panels are individually demountable with both removeable and swing-down versions available, giving easy access to services in the ceiling void while maintaining the fire resistance in both directions.

## AVAILABLE FORMATS

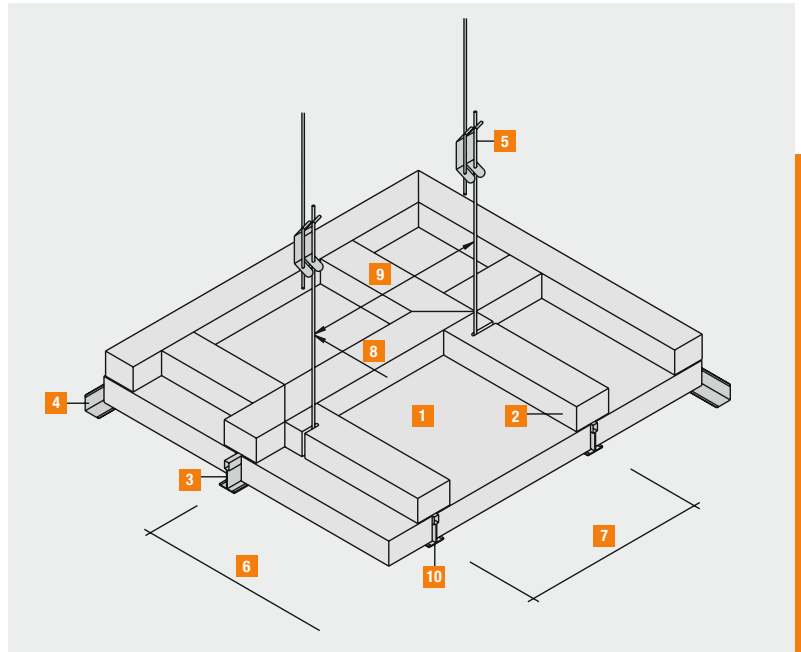
- 300 x 1200 - 2500 mm, further formats available on request

## AVAILABLE SURFACE PATTERNS

### THERMATEX

- Metal in white similar to RAL 9010, plain
- Metal in white similar to RAL 9010, perforated

# SYSTEM F30 MONO



- 1 Mono panel
- 2 Covering strip (factory fitted)
- 3 Cross profile
- 4 Wall trim, 24 x 24 mm
- 5 Quick-assembly suspension hanger
- 6 Max. module dimension, 625 mm
- 7 Max. module dimension, 625 mm
- 8 Suspension spacing, alternating between 750 and 500 mm
- 9 Max. distance between main runners, 625 mm
- 10 Main runner

## Construction

AMF System F30 mono is a cost-effective fire protecting ceiling that combines ease of installation with high fire performance. Tested to DIN 4102 System F30 mono provides 30 minutes fire protection from above – the ceiling cavity – and below – the room.

F30 mono consists of 40 mm thick high density mineral panels installed in AMF System C exposed grid system supported by adjustable hangers. Recessed light fittings can be installed with protection from AMF Light Boxes. As well as independent fire resistance F30 mono offers a range of face patterns and excellent acoustic performance for both sound absorption and attenuation.

### AVAILABLE FORMATS

- 600 x 600 mm, further formats available on request

### AVAILABLE SURFACE PATTERNS

#### THERMATEX

- Fine Stratos
- Fine Stratos, perforated
- Star
- Fine Fresko



# GENERAL NOTES



## ■ DRAFT SPECIFICATIONS AND TECHNICAL INFORMATION

For copies of draft specifications please  
telephone 020 8892 3216.  
fax 020 8892 6866.  
e-mail [sales@amfceilings.co.uk](mailto:sales@amfceilings.co.uk)  
<http://www.amfceilings.co.uk>

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!

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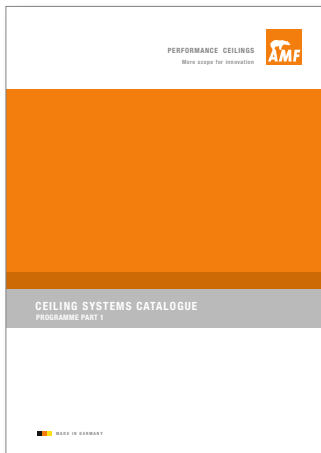
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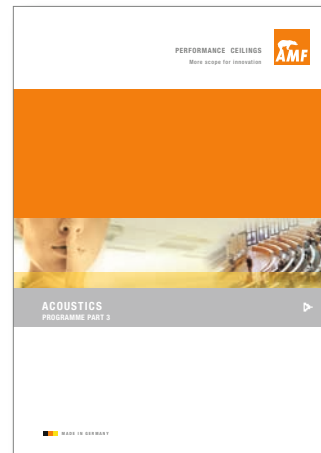
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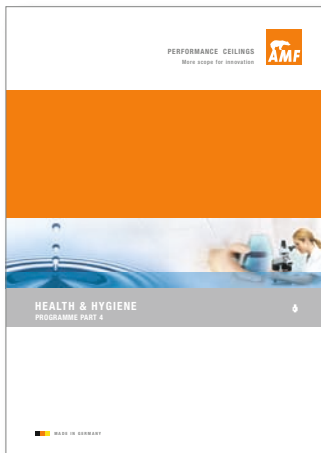
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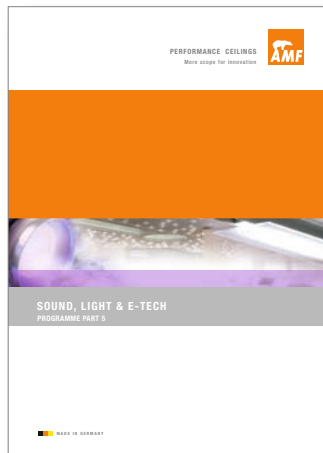
Part 2



Part 3



Part 4

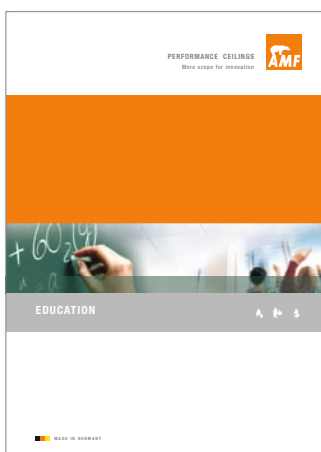


Part 5



Part 6

# AMF APPLICATIONS



Part 1

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Part 4 HEALTH & HYGIENE

Part 5 SOUND, LIGHT & E - TECH

Part 6 MATERIAL & DESIGN

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