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**Agrément Certificate**

**18/5593**

Product Sheet 1

### ETEX BUILDING PERFORMANCE

### PROMAT MASTERBOARD

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to Promat Masterboard<sup>(2)</sup>, a fibre-reinforced, calcium silicate flat sheet for use as a general-purpose building board for internal and semi-exposed locations. The board is non-combustible and can be used to provide up to 30 minutes' fire resistance, depending upon the application.

(1) Hereinafter referred to as 'Certificate'

(2) Promat Masterboard is a registered trademark of Etex Building Performance Ltd.

#### CERTIFICATION INCLUDES:

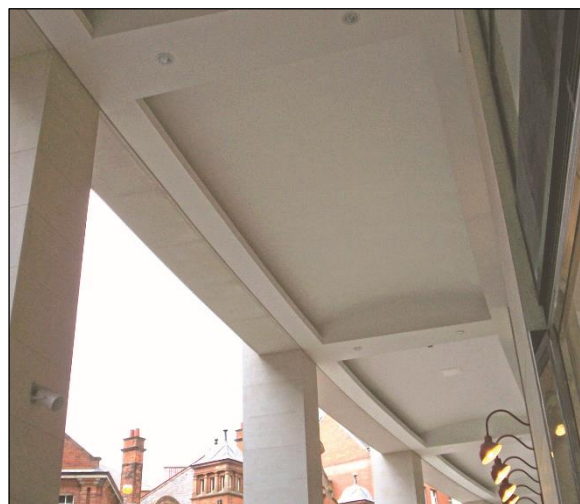
- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.

#### KEY FACTORS ASSESSED

**Strength** — the product has sufficient strength to resist the loads likely to be encountered in service (see section 6).

**Performance in relation to fire** — the product is non-combustible as described in the relevant national Building Regulations, and so satisfies the requirements for a Class O or 'low risk' surface, and is therefore unrestricted by these Regulations (see section 11).

**Durability** — under normal internal environmental conditions, the product will provide a service life in excess of 30 years (see section 16).



The BBA has awarded this Certificate to the company named above for the product described herein. This product has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of First issue: 22 November 2018

John Albon – Head of Approvals  
Construction Products

Claire Curtis-Thomas  
Chief Executive

*The BBA is a UKAS accredited certification body – Number 113.*

*The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at [www.bbacerts.co.uk](http://www.bbacerts.co.uk)  
Readers are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.*

*Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon.*

#### British Board of Agrément

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## Regulations

In the opinion of the BBA, Promat Masterboard, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements of the following Building Regulations (the presence of a UK map indicates that the subject is related to the Building Regulations in the region or regions of the UK depicted):



### The Building Regulations 2010 (England and Wales) (as amended)

<b>Requirement:</b>	<b>B1</b>	<b>Means of warning and escape</b>
Comment:		The product can contribute to satisfying this Requirement. See sections 4.2 and 11.1 of this Certificate.
<b>Requirement:</b>	<b>B2(1)(2)</b>	<b>Internal fire spread linings</b>
Comment:		The product is unrestricted by this Requirement. See section 11.1 of this Certificate.
<b>Requirement:</b>	<b>B3(1)(2)(3)</b>	<b>Internal fire spread structure</b>
Comment:		The product will contribute to satisfying this Requirement. See sections 4.2, 4.3 and 11.1 of this Certificate.
<b>Regulation:</b>	<b>7</b>	<b>Materials and workmanship</b>
Comment:		The product is acceptable. See section 16.1 and the <i>Installation</i> part of this Certificate.



### The Building (Scotland) Regulations 2004 (as amended)

<b>Regulation:</b>	<b>8(1)(2)</b>	<b>Durability, workmanship and fitness of materials</b>
Comment:		The product can contribute to a construction satisfying this Regulation. See sections 15.1 and 16.1 and the <i>Installation</i> part of this Certificate.
<b>Regulation:</b>	<b>9</b>	<b>Building standards applicable to construction</b>
Standard:	2.1	Compartmentation
Standard:	2.2	Separation
Comment:		The product can contribute to enabling a wall or floor to achieve a short duration of fire resistance and satisfy the relevant requirements of these Standards, with reference to clauses 2.1.2 <sup>(2)</sup> , 2.1.14 <sup>(2)</sup> , 2.1.15 <sup>(2)</sup> , 2.1.16 <sup>(2)</sup> , 2.2.1 <sup>(2)</sup> , 2.2.4 <sup>(2)</sup> , 2.2.5 <sup>(2)</sup> , 2.2.6 <sup>(1)(2)</sup> and 2.2.7 <sup>(1)(2)</sup> . See sections 4.2, 4.3 and 11.1 of this Certificate.
Standard:	2.3	Structural protection
Standard:	2.4	Cavities
Comment:		The product is non-combustible and may be used in accordance with the exceptions permitted by these Standards, with reference to clauses 2.3.2 <sup>(1)(2)</sup> , 2.3.3 <sup>(1)(2)</sup> , 2.3.4 <sup>(1)(2)</sup> , 2.3.5 <sup>(1)(2)</sup> , 2.4.5 <sup>(1)(2)</sup> , 2.4.6 <sup>(1)(2)</sup> and 2.4.9 <sup>(1)(2)</sup> . See sections 4.2 and 11.1 of this Certificate.
Standard:	2.5	Internal linings
Comment:		The product is non-combustible and is unrestricted by this Standard, with reference to clause 2.5.1 <sup>(1)(2)</sup> . See section 11.1 of this Certificate.
Standard:	2.9	Escape
Comment:		The product can contribute to enabling a wall or floor to achieve a short duration of fire resistance and satisfy the relevant requirements of this Standard, with reference to clauses 2.9.29 <sup>(1)(2)</sup> , 2.9.30 <sup>(1)(2)</sup> , 2.9.31 <sup>(1)(2)</sup> and 2.9.32 <sup>(1)(2)</sup> . See sections 4.2, 4.3 and 11.1 of this Certificate.

Standard: Comment:	7.1(a)	Statement of sustainability The product can contribute to meeting the relevant requirements of Regulation 9, Standards 1 to 6 and therefore will contribute to a construction meeting a bronze level of sustainability as defined in this Standard.
Regulation: Comment:	12	<b>Building standards applicable to conversions</b> Comments in relation to the product under Regulation 9, Standards 1 to 6 also apply to this Regulation, with reference to clause 0.12.1 <sup>(1)(2)</sup> and Schedule 6 <sup>(1)(2)</sup> .  (1) Technical Handbook (Domestic). (2) Technical Handbook (Non-Domestic).



## The Building Regulations (Northern Ireland) 2012 (as amended)

Regulation: Comment:	23(a)(i) (iii)(b)(i)	<b>Fitness of materials and workmanship</b> The product is acceptable. See section 16.1 and the <i>Installation</i> part of this Certificate.
Regulation: Comment:	33(c)	<b>Means of escape</b> The product can contribute to satisfying the deemed-to-satisfy provisions for means of escape as detailed in this Regulation. See sections 4.2, 4.3 and 11.1 of this Certificate.
Regulation: Comment:	34(a)(b)	<b>Internal fire spread linings</b> The product is unrestricted by this Regulation. See section 11.1 of this Certificate.
Regulation: Comment:	35(1)	<b>Internal fire spread structure</b> The product will contribute to satisfying the requirements of this Regulation. See sections 4.2, 4.3 and 11.1 of this Certificate.

## Construction (Design and Management) Regulations 2015

## Construction (Design and Management) Regulations (Northern Ireland) 2016

Information in this Certificate may assist the client, designer (including Principal Designer) and contractor (including Principal Contractor) to address their obligations under these Regulations.

See sections: 1 *Description* (1.1) and 17 *Health and safety* of this Certificate.

## Additional Information

### NHBC Standards 2018

In the opinion of the BBA, Promat Masterboard, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards*, Chapter 9.2 *Wall and ceiling finishes*.

### CE marking

The Certificate holder has taken the responsibility of CE marking the product in accordance with European Technical Assessment 09/0250 issued by UBAtc under ETAG 018, Parts 1 and 4. An asterisk (\*) appearing in this Certificate indicates that data shown are given in the manufacturer's Declaration of Performance.

This Certificate replaces BBA Certificate 90/2500 Product Sheet 1, Second Issue, issued to Promat UK Limited on 28 October 2016, with the original Certificate issued on 30 October 1990.

## 1 Description

1.1 Promat Masterboard is a fibre-reinforced calcium silicate board, off-white in colour, available as an undecorated flat sheet with an unsanded outward face and a lightly textured reverse face. The product has the nominal characteristics given in Table 1.

Characteristic (unit)	Board type	
	Standard	Door facing
Thickness (mm) <sup>(1)</sup>	6.0, 9.0, 12.0	6.0
Width (mm)	1200, 1220	914
Length (mm)	2500, 2440	2134
Dry density (kg·m <sup>-3</sup> )	975 ±12.5%	
Water impermeability*	Pass	
Flexural strength* (MPa)	≥ 4.5	
Dimensional stability*	Dimensionally stable	
Resistance to deterioration by water*	Pass	
Resistance to soak/dry*	Pass	
Resistance to freeze/thaw*	Pass	

(1) 9 mm boards are available with rebated edges.

1.2 The product may be decorated, if required, but the Certificate holder should be consulted regarding suitable coating systems, as these may affect the product's performance. Such materials are outside the scope of this Certificate. See also section 16.3.

## 2 Manufacture

2.1 The product is manufactured from silica, Portland cement, fillers and selected cellulose fibres to provide reinforcement. Sheets are cured in steam autoclaves, dried to the specified moisture content and trimmed to size.

2.2 As part of the assessment and ongoing surveillance of product quality, the BBA has:

- agreed with the manufacturer the quality control procedures and product testing to be undertaken
- assessed and agreed the quality control operated over batches of incoming materials
- monitored the production process and verified that it is in accordance with the documented process
- evaluated the process for management of nonconformities
- checked that equipment has been properly tested and calibrated
- undertaken to carry out the above measures on a regular basis through a surveillance process, to verify that the specifications and quality control operated by the manufacturer are being maintained.

2.3 The management system of the manufacturer has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2008 by Bureau Veritas Certification (Certificate 300408-UK).

## 3 Delivery and site handling

3.1 The product is delivered to site in stacks wrapped in polythene on wooden pallets. The product name, date of manufacture and thickness of board are printed on the underside of the board and on a label.

3.2 Each sheet is marked on the reverse face with the product's name and batch date. The sheets are stacked and edge-protected, with the outward face upwards. A separate stack must be made for each length of sheet, and individual stacks must not exceed 450 mm in height.

3.3 The product should be stored on bearers placed not more than one metre apart on a level base, in dry conditions under cover away from the possibility of damage and without sheets protruding from the stack.

## Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Promat Masterboard.

### Design Considerations

## 4 Use

4.1 Promat Masterboard is satisfactory for use as a general-purpose building board for internal and semi-exposed locations such as:

- ceilings to timber floors and suspended systems
- swimming pool and other high-humidity environment wall linings and ceilings using the recommended suspended system
- timber and metal-frame partitions
- upgrading fire doors
- soffits, canopy and porch linings.



4.2 The product is non-combustible and is suitable for use in internal and semi-exposed applications. It can be used to provide up to 30 minutes' fire protection in partition applications (timber and metal frame) and as ceilings to the underside of timber floors. It can also be used to upgrade the fire performance of timber panel doors to provide 20 to 30 minutes' fire protection.

4.3 It is essential that the product is installed strictly in accordance with the Certificate holder's instructions and the recommendations in the relevant clauses and sections of the following documents, in such a manner that a specimen constructed to the same specification would, if exposed to test by fire and classified in accordance with BS EN 13501-1 : 2007 and BS EN 13501-2 : 2016, satisfy the requirements of the test:

- BS 9999 : 2017
- *Guidelines for the construction of fire-resisting structural elements* (HMSO 1988)
- BS 5234-1 : 1992 and BS 5234-2 : 1992
- BRE Digest 208.

4.4 When designing an installation incorporating the product, consideration may also need to be given to any additional requirements contained in:

- Fire Precautions Act 1971 (HMSO): The Fire Precautions (Hotels and Boarding Houses) Order 1972
- The Fire Precautions (Factories, Offices, Shops and Railway Premises) Order 1989/76
- Fire Safety and Safety of Places of Sports Act 1987 (HMSO)
- Fire Services (Northern Ireland) Order of 1993 (HMSO)
- Health and Safety at Work etc Act 1974 (HMSO)
- Housing Act 2004 (HMSO)
- Fire Insurance Requirements.

## 5 Practicability of installation

The product is designed to be installed by competent installers experienced with this type of product.

## 6 Strength

6.1 When tested in accordance with BS EN 12467: 2012, the product has a minimum bending strength of 4.5 MPa.

6.2 The product is not recommended for use where it may be exposed to high levels of abrasion or where impacts may be frequent and/or severe.

## 7 Thermal conductivity

The  $\lambda$  value (thermal conductivity) of the product should be taken as  $0.22 \text{ W}\cdot\text{m}^{-1}\text{K}^{-1}$ .

## 8 Thermal expansion

The product has a mean coefficient of linear thermal expansion from 0 to 40°C of  $9 \times 10^{-6} \text{ m}\cdot\text{mK}$ .

## 9 Moisture movement

The moisture movement, ambient (30% RH and 20°C) to saturated, should be taken as 0.12%.

## 10 Permeability

The product has a water vapour resistivity of  $80 \text{ MN}\cdot\text{s}\cdot\text{g}\cdot\text{m}^{-1}$ . It is not, therefore, considered as a vapour control layer.

## 11 Performance in relation to fire



11.1 The product has a reaction to fire classification of A1 as defined in BS EN 13501-1 : 2007 and so is non-combustible, and satisfies the requirements of Class O or 'low risk' surface as described in the relevant national Building Regulations.

11.2 For fire resistance, butt-jointed 8 mm thick Promat Masterboard, when fixed to the substrate with galvanized steel screws (gypsum board screws for wet rooms) with minimum dimensions of 4.2 by 41 mm at maximum 300 mm centres in the longest direction (distance from the edge approximately 50 mm), and at maximum 580 mm centres in the shortest direction (distance from the edge approximately 20 mm), has a  $K_{110}$  (for substrates with density greater than  $300 \text{ kg}\cdot\text{m}^{-3}$ ) and  $K_{210}$  (for all substrates) classification in accordance with BS EN 13501-2 : 2016.

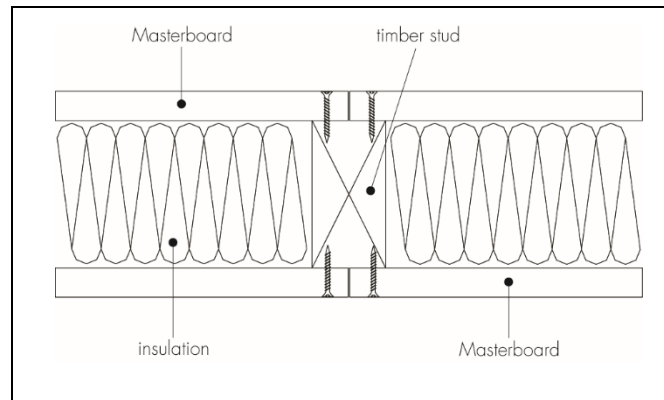
11.3 The product may be used in the constructions in sections 11.4 to 11.6, where fire resistance is required. Care is necessary to ensure that the construction is carried out strictly in accordance with the *Design Consideration* and *Installation* parts of this Certificate and the recommendations in the Certificate holder's technical literature, which can also be consulted for further details.

### Non-loadbearing timber stud partition (see Figure 1)

11.4 The following construction has a 30-minute fire resistance with regard to integrity and insulation. The product is suitable for use as the lining to this form of non-loadbearing timber stud partition:

- softwood timber frame — nominal dimensions of studwork 63 by 50 mm at maximum 610 mm centres and horizontal noggings at horizontal board joints
- mineral wool insulation — 60 mm thick ( $23 \text{ kg}\cdot\text{m}^{-3}$ ) between studs
- Promat Masterboard — 6 mm thick fixed to both sides using 38 mm long round head nails or M4 by 38 mm long steel woodscrews at nominal 300 mm centres. Sheets are tightly butt-jointed together.

Figure 1 Non-loadbearing timber stud partition

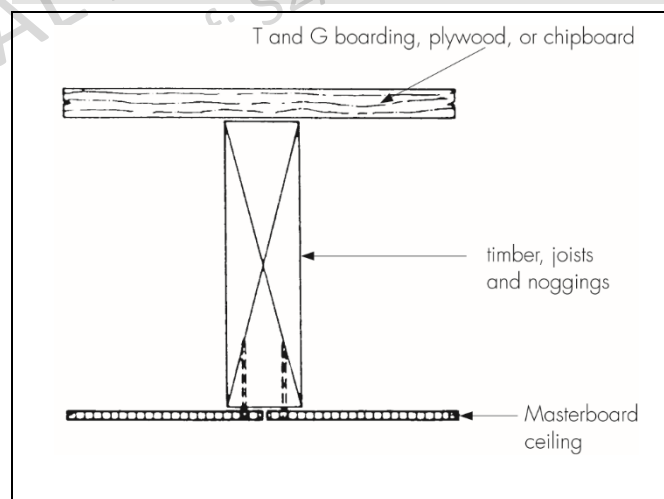


### Protection to timber floors (see Figure 2)

11.5 The following construction has a 30-minute fire resistance with respect to loadbearing capacity (an imposed load of  $1.208 \text{ kN}\cdot\text{m}^{-2}$  was supported by the floor), integrity and insulation. The different forms of floor decking have been assessed as capable of providing an equivalent performance as that tested. The product is suitable for use as the ceiling to this form of floor assembly:

- tongue-and-groove boarding, chipboard or plywood floor — minimum 19 mm thick tongue-and-groove boarding, square-edged chipboard or plywood, or tongue-and-groove chipboard; 4.8 mm hardboard secured over square edged floor boards
- timber joists (GS grade) — minimum 38 mm thick, nominal depth 225 mm, at maximum 610 mm centres
- timber noggings — 38 by 225 mm at centres required by BS 5268-2 : 2002 and at transverse joints, if required for decorative purposes
- Promat Masterboard Ceiling — 6 mm thick, butt-jointed and fixed to the joists using 50 mm long nails at 200 mm centres.

Figure 2 Protection of timber floors



### Upgraded fire doors

11.6 The product can be used to upgrade the fire performance of timber doors to provide 20- and 30-minutes of fire protection (fire integrity). Reference should be made to the Certificate holder's literature, including Promat *Technical Datasheet 005* (20-minute applications) and *Technical Datasheet 006* (30-minute applications) for more details.

## Cavities

11.7 Fire must not spread between or within cavities and must not bypass elements required to have fire resistance. Any cavities formed by the use of the product may need to be enclosed and subdivided in accordance with the requirements of the documents supporting the national Building Regulations.

## 12 Resistance to water

12.1 When the product was tested in accordance with BS EN 12467 : 2012, no water droplets formed on the lower surface of the product within 24 hours.

12.2 The product is not suitable for use where it may be in contact with water for prolonged periods and/or be subjected to cyclic freezing and thawing.

12.3 The product loses approximately 50% of its strength on wetting, but full strength is recovered on drying.

12.4 Moisture will not cause leaching or efflorescence to occur under normal service conditions.

12.5 The product is absorbent and can contribute to surface condensation control.

## 13 Risk of mould growth

The recommendations in BS 5250 : 2011 should be followed when considering the product for use in humid areas. When such conditions exist, the Certificate holder should be consulted concerning suitable surface treatments.

## 14 Surface temperature

The performance of the product will not be affected when subjected to local heating caused by radiators and similar heating appliances.

## 15 Maintenance



15.1 The product will retain dirt in a similar manner to fibre-cement lining sheets. Normal dirt deposits may be removed using clean water and a stiff brush, but some change in appearance will result. The Certificate holder's advice should be sought concerning suitability of chemical cleaning agents to remove difficult stains.

15.2 Care is required when placing ladders against linings, in particular industrial linings. The practice of sliding or bouncing the top of the ladder along the wall surface to change position may cause damage to the sheets, either by scoring the surface or by impact, and should be avoided.

## 16 Durability

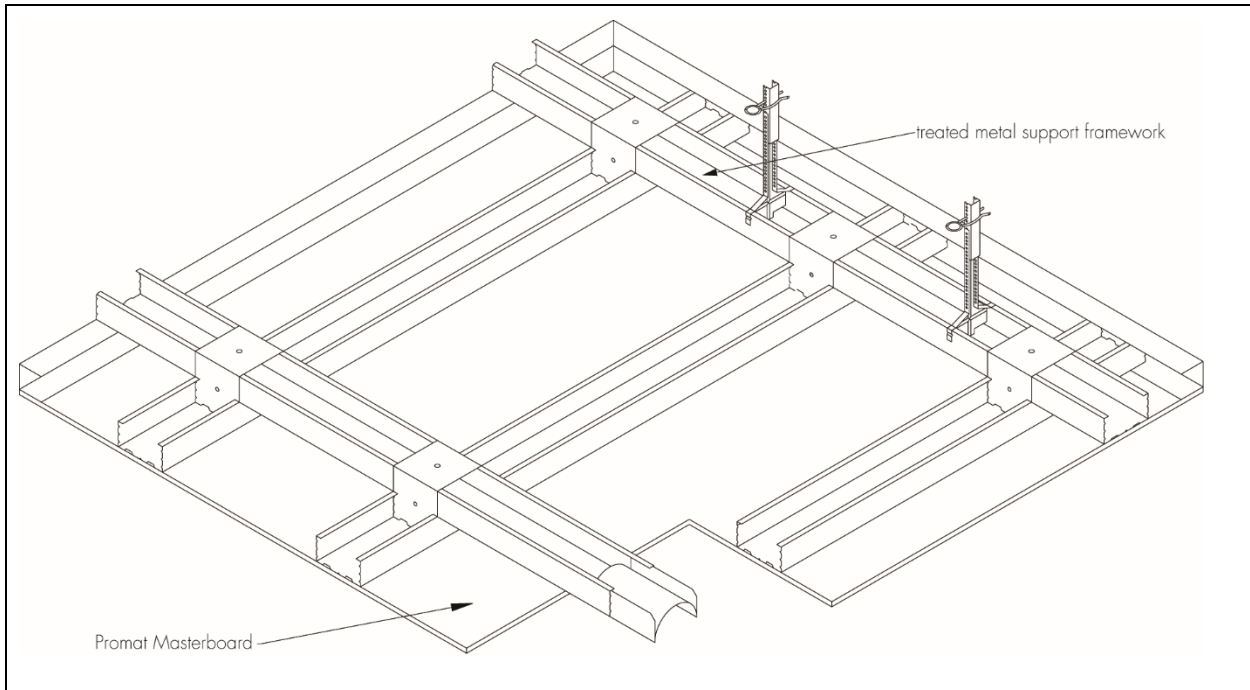


16.1 In normal service conditions, the product will have a service life in excess of 30 years.

16.2 In common with other cementitious materials, the matrix material will carbonate and become brittle with time.

16.3 If the product is to be decorated with a water vapour impermeable coating, differential moisture absorption may make the sheets more likely to bow than undecorated sheets; an appropriate back sealer should, therefore, be used. When used in swimming pool ceilings (see Figure 3) and wall lining applications, the product may require a suitable decorative finish according to the specifier's requirements. The Certificate holder should be consulted for advice on the use of suitable products for these purposes. Care should be taken to avoid adversely affecting the fire performance properties of the product.

Figure 3 Suspended swimming pool ceiling



## Installation

### 17 Health and safety

When using power saws and sanders, dust extraction equipment should be used to control dust levels. The Certificate holder's Safety Data Sheet must be consulted for further details.

### 18 General

The product must be installed strictly in accordance with the Certificate holder's instructions and this Certificate (see sections 4.3 and 11).

### 19 Procedure

19.1 Sheets must be supported on all four edges and fixed at maximum 610 mm support centres to a secured framework which has been levelled to give a flat fixing surface. The product may be fixed to metal supports, but the advice of the Certificate holder should be sought regarding suitable materials, profiles and fixing methods.

19.2 In fire-resisting timber stud constructions where mineral wool is used, the product must fit tightly in the framework and completely fill the cavity between the lining sheets.

19.3 Perimeter fixings for the product should be at a minimum distance of 12 mm from sheet edges, and 40 mm from sheet corners.

19.4 For general use, sheets may be fixed using galvanized wire nails, driven flush or slightly below the surface of the board, or by using No 6 or 8 wood-screws or self-tapping screws for 9 and 12 mm thick Promat Masterboard. Promat Masterboard 6 mm thick may also be fixed using 6 mm crown, 25 mm long corrosion-resistant staples. Where fire resistance is required, the Certificate holder's advice should be sought.

19.5 Adequate fixing is essential for fire protection, and the fixings must be well anchored into the supports. All supports must be in sound condition.

19.6 The product should be butt-jointed in fire-resistant applications, using a fire-resistant sealant to fill any small gaps. The Certificate holder can advise on suitable materials for this purpose. Alternatively, for non-fire-resistant applications, board edges can be left slightly apart and all joints and screw heads filled and sanded to a smooth flat surface.

19.7 Where water may be used for washing the floor, the joint between the board and the floor should prevent water penetrating the adjoining space. The lower edge of the board should be protected to a height of at least 75 mm.

## 20 Cutting and drilling

20.1 The product may be cut using a fine-toothed saw, eg panel saw, padsaw, keyhole saw or coping saw, working with the outward face up and the board supported as the cut progresses. Rough cuts can be made by scoring the board and snapping it over a straight edge. Power sawing can be carried out using a tungsten carbide or diamond-tipped blade.

20.2 The product should be drilled using a high- or low-speed twist drill, and scrap material should be placed under the drilling location to ensure a clean hole.

## 21 Repair

Damaged components can be replaced using normal installation techniques. Any difference in appearance between new and existing sheets may mellow with age.

## Technical Investigations

### 22 Tests

Tests were carried out and the results assessed to determine:

- geometric characteristics
- density
- watertightness
- water absorption
- effect of accelerated ageing on flexural strength
- behaviour in fire.

### 23 Investigations

23.1 Test data from independent laboratories in relation to the following were examined:

- BS EN 13501-1 : 2007
- coefficient of linear thermal expansion
- water vapour permeability
- moisture movement.

23.2 An examination was made of test data to evaluate:

- hard body impact resistance
- fixing strength
- effect of oven-drying on flexural strength.

23.3 Visits were made to sites to examine the performance in use.

23.4 The manufacturing process was evaluated, including the methods adopted for quality control, and details were obtained of the quality and composition of the materials used.

## Bibliography

BRE Digest 208 *Increasing the fire resistance of existing timber floors*

BS 5234-1 : 1992 *Partitions (including matching linings) — Code of practice for design and installation*

BS 5234-2 : 1992 *Partitions (including matching linings) — Specification for performance requirements for strength and robustness including methods of test*

BS 5250 : 2011 + A1 : 2016 *Code of practice for control of condensation in buildings*

BS 5268-2 : 2002 *Structural use of timber — Code of practice for permissible stress design, materials and workmanship*

BS 9999 : 2017 *Fire safety in the design, management and use of buildings. Code of practice*

BS EN 12467 : 2012 + A1 : 2018 *Fibre-cement flat sheets — Product specification and test methods*

BS EN 13501-1 : 2007 + A1 : 2009 *Fire classification of construction products and building elements — Classification using test data from reaction to fire tests*

BS EN 13501-2 : 2003 *Fire classification of construction products and building elements — Classification using data from fire resistance tests, excluding ventilation services*

BS EN ISO 9001 : 2008 *Quality management systems — Requirements*

ETAG 018-1 : 2013 *Fire Protective Products — Part 1 : General*

ETAG 018-4 : 2012 *Fire Protective Products — Part 4 : Fire protective board, slab and mat products and kits*

*Guidelines for the construction of fire-resisting structural elements (HMSO 1988)*

### 24 Conditions

#### 24.1 This Certificate:

- relates only to the product/system that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page – no other company, firm, organisation or person may hold claim that this Certificate has been issued to them
- is valid only within the UK
- has to be read, considered and used as a whole document – it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- is subject to English Law.

24.2 Publications, documents, specifications, legislation, regulations, standards and the like referenced in this Certificate are those that were current and/or deemed relevant by the BBA at the date of issue or reissue of this Certificate.

24.3 This Certificate will remain valid for an unlimited period provided that the product/system and its manufacture and/or fabrication, including all related and relevant parts and processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.

24.4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.

24.5 In issuing this Certificate the BBA is not responsible and is excluded from any liability to any company, firm, organisation or person, for any matters arising directly or indirectly from:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product/system or any other product/system
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product/system
- actual installations of the product/system, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product/system is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product/system, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to CE marking.

24.6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product/system which is contained or referred to in this Certificate is the minimum required to be met when the product/system is manufactured, supplied, installed, used, maintained and removed. It does not purport in any way to restate the requirements of the Health and Safety at Work etc. Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care.