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Agrément Certificate
13/5044
Product Sheet 1

FERMACELL BOARDS

FERMACELL POWERPANEL H₂O CEMENT-BASED BOARD FOR INTERNAL USE

This Agrément Certificate Product Sheet⁽¹⁾ relates to Fermacell Powerpanel H₂O Cement-Based Board For Internal Use, a fibre-glass reinforced cement board for use in ceilings, non-loadbearing partition walls and linings of loadbearing and non-loadbearing walls, including areas with high moisture conditions. The board is suitable as the internal lining to masonry, timber or steel-framed walls in domestic and non-domestic buildings⁽²⁾.

- (1) Hereinafter referred to as 'Certificate'.
(2) The contribution by the board to racking or fire resistance has not been assessed in this Product Sheet.

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

Performance in relation to fire — the board has a reaction-to-fire classification of A1* and can be regarded as non-combustible in accordance with the national Building Regulations (see section 7.1).

Condensation risk — for calculation purposes, the value of the vapour resistance of the board given in section 11 may be used.

Durability — the board has acceptable durability and will have a life equal to that of the building in which it is installed (see section 14).

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: 19 September 2013

A handwritten signature in black ink that reads 'B Chamberlain'.

Brian Chamberlain

Head of Approvals — Engineering

A handwritten signature in black ink that reads 'Claire'.

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

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.

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Regulations

In the opinion of the BBA, Fermacell Powerpanel H₂O Cement-Based Board For Internal Use, if installed, used and maintained in accordance with the provisions of this Certificate, will meet or contribute to meeting 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)

Requirement:	B2	Internal fire spread (linings)
Comment:		The board can meet this Requirement. See sections 7.1, 7.2 and 7.4 of this Certificate.
Requirement:	C2	Resistance to moisture
Comment:		The board can contribute to satisfying this Requirement. See section 11 of this Certificate.
Regulation:	7	Materials and workmanship
Comment:		The board is an acceptable material. See section 14 and the <i>Installation</i> part of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8	Fitness and durability of materials and workmanship
Comment:		The board can contribute to a construction satisfying this Regulation. See sections 13.1 and 14 and the <i>Installation</i> part of this Certificate.
Regulation:	9	Building standards applicable to construction
Standard:	2.5	Internal linings
Comment:		The board will satisfy this Standard, with reference to clauses 2.5.1 ⁽¹⁾⁽²⁾ . See sections 7.1, 7.2 and 7.4 of this Certificate.
Standard:	3.15	Condensation
Comment:		The board can contribute to satisfying this Standard, with reference to clauses 3.15.2 ⁽¹⁾ , 3.15.4 ⁽¹⁾ and 3.15.5 ⁽¹⁾ . See section 11 of this Certificate.
Standard:	7.1	Statement of sustainability
Comment:		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:	12	Building standards applicable to conversions
Comment:		All comments given for this product under Regulation 9, also apply to this Regulation, with reference to clause 0.12.1 ⁽¹⁾⁽²⁾ and Schedule 6 ⁽¹⁾⁽²⁾ . (1) Technical Handbook (Domestic). (2) Technical Handbook (Non-Domestic).



The Building Regulations (Northern Ireland) 2012

Regulation:	23	Fitness of materials and workmanship
Comment:		The board is an acceptable material. See section 14 and the <i>Installation</i> part of this Certificate.
Regulation:	29	Condensation
Comment:		The board can contribute to satisfying this Regulation. See section 11 of this Certificate.
Regulation:	34	Internal fire spread – Linings
Comment:		Walls incorporating the board can satisfy this Regulation. See sections 7.1, 7.2 and 7.4 of this Certificate.

Construction (Design and Management) Regulations 2007

Construction (Design and Management) Regulations (Northern Ireland) 2007

Information in this Certificate may assist the client, CDM co-ordinator, designer and contractors to address their obligations under these Regulations.

See section: 1 *Description* (1.2), 3 *Delivery and site handling* (3.5) and 16 *General* (16.3) of this Certificate.

Additional Information

NHBC Standards 2013

NHBC accepts the use of Fermacell Powerpanel H₂O Cement-Based Board For Internal Use, provided it is installed, used and maintained in accordance with this Certificate, in relation to *NHBC Standards*, Chapter 8.2 *Wall and ceiling finishes*, Clause D4 *Plasterboard and dry lining* and Chapter 6.10 *Light steel framed walls and floors*, Clause D5 *Non-loadbearing walls* and 6.3 *Internal walls*, Clause D6 *Non-loadbearing internal partitions*.

CE marking

The Certificate holder has taken the responsibility of CE marking the Powerpanel H₂O Cement-Based Board For Internal Use, in association with ETA 07/0087. An asterisk (*) appearing in this Certificate indicates that data shown is given in the manufacturer's Declaration of Performance.

Technical Specification

1 Description

1.1 The Fermacell Powerpanel H₂O Cement-Based Board For Internal Use, comprises a cement-bonded core, reinforced on each face by an alkali-resistant, 0.2 to 0.5 mm thick glassfibre mesh (of 5 mm by 5 mm) embedded in the face layers. The board is light grey in colour with square edges and is marked on the front face with the product name and identification.

1.2 Characteristics of the standard boards are shown in Table 1.

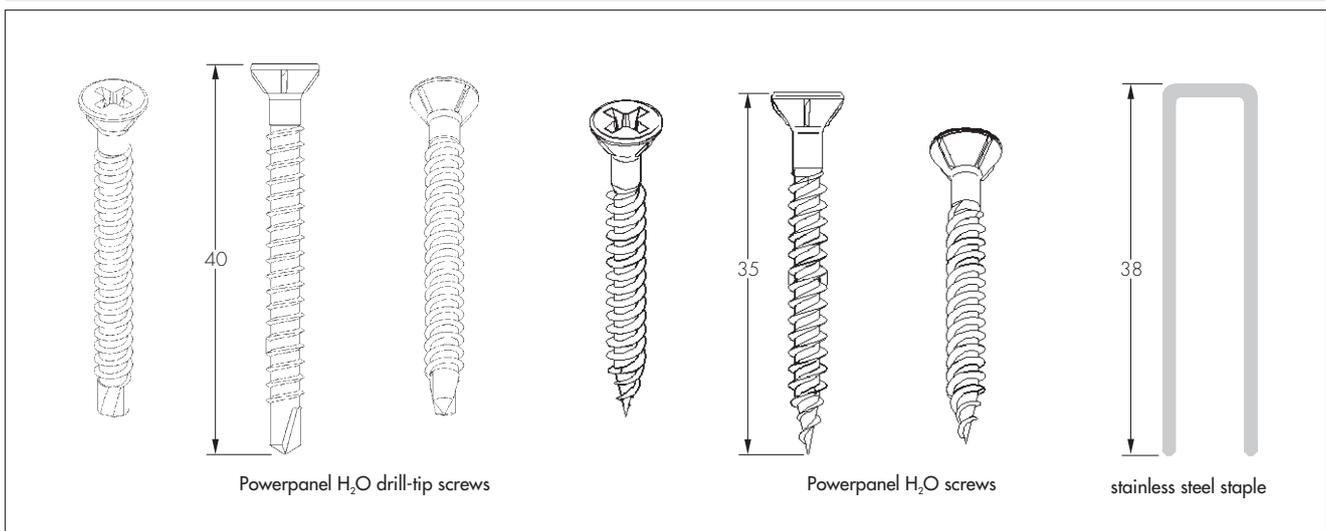
Characteristic (unit)	Value (tolerance)
Length ⁽¹⁾ (mm)	1000, 2000, 2600 and 3000 (±1)
Width ⁽¹⁾ (mm)	1200 (±1)
Thickness (mm)	12.5 (±0.5)
Approximate weight (kg·m ⁻²)	13
Density (kg·m ⁻³)	950 – 1050

(1) Other sizes are available on request up to a maximum of 2540 mm by 6000 mm.

1.3 The fixing of the board depends on the substrate and must be in accordance with the Certificate holder's relevant specification. Fixings (see Figure 1) used with the boards are:

- Powerpanel H₂O drill-tip screws — manufactured from stainless steel coated with 10µm of polymer zinc, 3.9 mm diameter by 40 mm length, a self-tapping screw for fixing the boards to a supporting metal sub-frame (more than 0.7 mm gauge)
- Powerpanel H₂O screws — manufactured from stainless steel coated with 10µm of polymer zinc, 3.9 mm diameter by 35 mm length for fixing the boards to a supporting timber sub-frame or light metal sub-frame (up to 0.7 mm gauge)
- Stainless steel staples — minimum 38 mm long, 1.5 mm gauge and 10 mm head width for fixing the boards to a supporting timber sub-frame

Figure 1 Fixings



1.4 Proprietary accessories used in conjunction with the board include:

- Fermacell Jointstik adhesive — polyurethane based adhesive, cartridge applied, for butt-gluing the boards
- Fermacell Jointstik Greenline adhesive — polyurethane based adhesive with non-hazardous ingredients, cartridge applied, for butt-gluing the boards
- Fermacell Powerpanel H₂O surface finish — dry, ready-mixed plastic reinforced cement based compound for covering screw heads and joints, smoothing boards in readiness for tiling or paint finish.

1.5 Ancillary items used but outside of the scope of this Certificate include:

- primer sealer
- self-adhesive fibre tape
- liquid waterproofing
- substrate
- breather membrane.

2 Manufacture

2.1 The boards are manufactured in a fully automated process. A face layer is sprayed into the steel mould and embedded with a glass-fibre mesh. The core mix is then applied and the second face layer of glass-fibre mesh rolled onto the top of the core layer. The composite board is compressed at high pressure and then cured.

2.2 As part of the assessment and continuing 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 product is manufactured in Germany and marketed in the UK by the Certificate holder.

2.4 The management system of Fermacell GmbH has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2008 by TÜV NORD CERT GmbH (Certificate No: 08 100 959271).

3 Delivery and site handling

3.1 Boards are delivered to site in stacks of up to 30 on wooden pallets braced by three straps. The board edges are protected by cardboard. The stacks are wrapped in polythene and each carries a label bearing the product name, date of manufacture, size and quality control stamp.

3.2 Pallets can only be moved by forklift truck and must not be stacked more than four high.

3.3 When removed from the pallets, boards should be stored flat, off the ground, on a dry, level surface in a well-ventilated area protected from rain and snow. Sufficient supports should be provided to prevent bowing.

3.4 To protect the surface, individual boards should be lifted (not slid) from the stack by two people and carried in the vertical position.

3.5 Metal components and materials, such as surface filler and adhesive must be stored in dry conditions. Packaging details for accessory components are given in Table 2.

Table 2 Packaging and weights

Item	Packaging	Weight
Fermacell Jointstik and Jointstik Greenline adhesive	310 ml tubes	430 g
	580 ml sachets	840 g
Powerpanel H ₂ O screws	box of 500	972 g
Powerpanel H ₂ O drill-tip screws	box of 250	686 g
Stainless steel staples	N/A ⁽¹⁾	N/A ⁽¹⁾
Powerpanel surface finish	tub	10 kg

(1) Not provided by the Certificate holder

Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Fermacell Powerpanel H₂O Cement-Based Board For Internal Use.

Design Considerations

4 General

4.1 Fermacell Powerpanel H₂O Cement-Based Board For Internal Use can be installed as a lining on ceilings, non-loadbearing partition walls and loadbearing and non-loadbearing masonry, timber or steel-framed walls, including areas with high moisture conditions (for example, wet rooms, showers and swimming pools) in domestic and non-domestic buildings.

4.2 When specified for use as the internal dry lining to loadbearing timber-framed or steel-framed external and separating walls each construction must be individually assessed for fire resistance, either by fire testing in accordance with BS EN 1365-1: 2012 or BS 476-21:1987.

4.3 The adequacy of the structural frame or substrate must be verified by a suitably qualified and experienced individual. The structural frame or substrate must be able to resist the full racking loads, no contribution from boards can be assumed.

4.4 Masonry walls in new buildings should be designed in accordance with BS EN 1996-1-1: 2005. Masonry walls in existing buildings must be structurally sound.

4.5 Timber framed walls in new buildings should be designed and constructed in accordance with BS EN 1995-1-1: 2004 and preservative treated in accordance with BS 5268-5: 1989, BS 5589: 1989 and BS EN 351-1: 2007.

4.6 Galvanized steel framework must be structurally sound, designed and constructed in accordance with BS EN 1993-1-1: 2005.

4.7 The boards must always be mechanically fixed with the fixings specified in 1.3

4.8 If installed correctly, the boards will not promote interstitial condensation.

4.9 Services penetrating the dry lining, e.g. light switches, power outlets, should be kept to a minimum and correctly sealed and backed according to the Certificate holder's recommendations. Any services passing through the board must be designed and constructed to ensure that the fire and water resistance of the construction is maintained.

4.10 The actual spacing and position of the board joints will generally be determined by the dimensions and shape of the construction. Any joints must coincide with movement joints in the structure and allow for the same degree of movement.

4.11 The maximum spacing of the studs supporting the boards must be:

- in walls 600 mm
- in floors and ceilings 500 mm.

4.12 The acoustic performance of a wall construction is outside the scope of this Certificate and has not been assessed.

5 Practicability of installation

The boards are designed to be installed by a competent general builder, or a contractor, experienced with this type of product.

6 Strength and stability

6.1 The boards are resistant to damage from the normal impacts⁽¹⁾ likely to occur in service.

(1)When tested for strength and robustness to BS 5234-2: 1992, a partition system built with Fermacell Powerpanel H₂O boards fixed at either side of a frame made of 0.6 mm thick C section lightweight steel studs at 600 mm centres with Powerpanel H₂O drill-tip screws at 250 mm centres, was found to conform to a HD (heavy duty) classification.

6.2 Wall-mounted fittings should be fixed through the board into the structural frame or substrate, using suitable fixings. The recommendations of the Certificate holder should be followed.

7 Performance in relation to fire



7.1 The boards have been assessed as having a reaction to fire Class A1* in accordance with BS EN 13501-1: 2002.

7.2 Fire protective coverings made of Fermacell Powerpanel H₂O with a thickness of ≥ 12.5 mm meet the requirements of class K₁ (10) according to EN 13501-2: 2003.

7.3 The Certificate holder has undertaken a range of fire tests in respect of non-loadbearing internal wall partition constructions. As an example, a non-loadbearing partition wall, comprising; one layer of 12.5 mm thick Fermacell Powerpanel H₂O fixed to each side of 40 mm by 60 mm timber studs fixed at 600 mm centres with 60 mm thick mineral wool in between, was tested for fire resistance to EN 1364-1: 1999 and classified EI 60 in accordance with BS EN 13501-2: 2007. The Certificate holder should be consulted for the results of fire test reports regarding other partition constructions but these are outside the scope of this Certificate.



7.4 The boards may be regarded as non-combustible ('low risk' in Scotland) in accordance with the following national Building Regulations:

England and Wales — Approved Document B

Scotland — Technical Handbooks⁽¹⁾⁽²⁾, Section 2

Northern Ireland — Technical Booklet E.

(1) Technical Handbook (Domestic).

(2) Technical Handbook (Non-Domestic).

8 Proximity of flues and appliances

When installing the product in close proximity to certain flue pipes and/or heat-producing appliances in buildings subject to national Building Regulations, the relevant provisions and following guidance given should be met:

England and Wales — Approved Document J

Scotland — Mandatory Standard 3.19, clauses 3.19.1⁽¹⁾⁽²⁾ to 3.19.9⁽¹⁾⁽²⁾

Northern Ireland — Technical Booklet L.

(1) Technical Handbook (Domestic).

(2) Technical Handbook (Non-Domestic).

9 Water absorption

9.1 For water absorption, tested according to EN 520 : 2004+A1 : 2009, the following values apply:

- Water absorption at the surface: 650 g·m⁻²
- Total water absorption of the boards: 8.5%

9.2 When tested according to EN 322: 1993 at 20°C and 65% of humidity, the moisture content of the boards is ≤5%.

10 Thermal conductivity

When considering the U values of elements or minimum internal surface temperatures of heat loss paths such as repeating bridges, junctions and openings, the thermal conductivity of the board may be taken as 0.173 W·m⁻¹·K⁻¹ *.

11 Condensation risk



To minimise the risk of interstitial condensation, walls and ceilings should be designed and constructed in accordance with BS 5250 : 2011. For the purposes of calculations, the water vapour resistance factor (μ) of the board should be taken as 56 MN·s·g⁻¹·m⁻¹ *.

12 Infestation

The use of the board does not in itself promote infestation but the creation of voids within the wall structure may provide habitation for insects or vermin in areas already infested. Care should be taken to ensure that, wherever possible, all voids are sealed as any infestation may be difficult to eradicate.

13 Maintenance and repair



13.1 Periodic inspections should be carried out to assess the need for cleaning, maintenance painting, maintenance of tiling and grouting, localised repairs and replacement, such as joints seals and fixings, to ensure that ingress of water does not occur. Necessary repairs should be carried out immediately.

13.2 Damaged boards, whether permanently exposed or hidden, should be replaced as soon as is practicable.

14 Durability



Provided the boards are used and installed in accordance with this Certificate, fixed to satisfactory, stable and durable framework or substrate, using the appropriate fixings, and regularly maintained it can be expected to have a service life equal to that of the structure onto which it is fixed.

15 Reuse and recyclability

The boards can be reprocessed for use in the manufacture of other products. The fixings can be readily recycled.

Installation

16 General

16.1 Installation of the Fermacell Powerpanel H₂O Cement-Based Board For Internal Use should be in accordance with the requirements given in the Certificate holder's literature.

16.2 Boards are secured to the substrate using the fixings referred to in section 1.3. The maximum centres or spacing of studs or battens are referred to in section 4.11. The maximum fixings centres are:

- Screws at a maximum distance of 250 mm centres
- Staples at a maximum distance of 200 mm centres.

16.3 A gap of 5 mm above the floor level and below the ceiling level should be left between board horizontal edges. Wall boards should not be fixed to floor or ceiling joists.

16.4 When installed on ceilings, the boards must be fixed at a maximum of 200 mm centres.

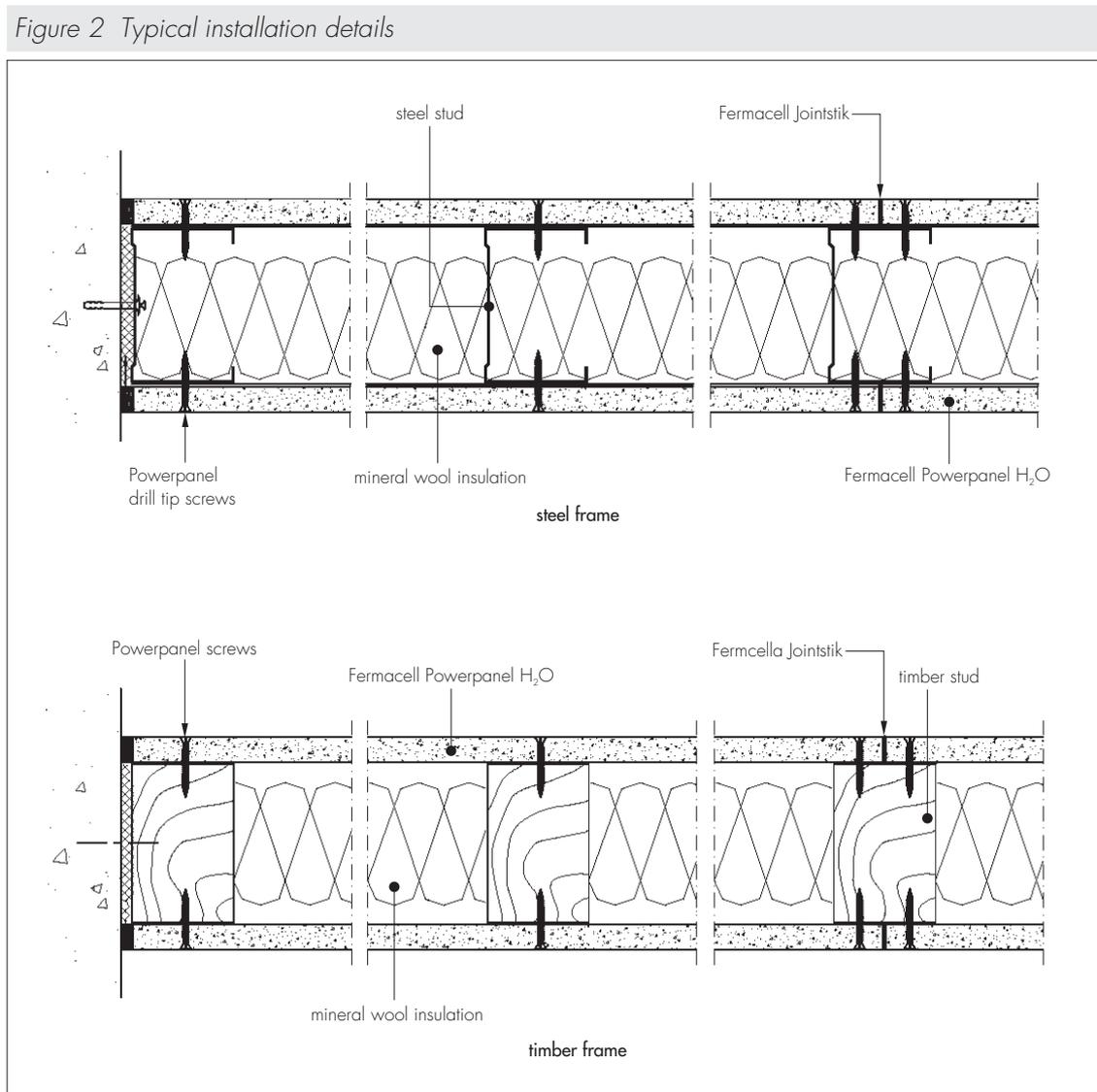
16.5 Screws and staples must be fixed at a minimum of 15 mm from board edges

16.6 Screws must be sunk 1 mm below the board surface and should not be over-tightened (details are given in the Certificate holder's installation guide).

16.7 In areas of high humidity, a primer sealer and a liquid waterproofing may be required. The joints may need to be further reinforced with a self-adhesive fibre tape and the internal corners with flexible sealing tape. The Certificate Holder's advice must be sought.

16.8 Where the Powerpanel H₂O boards are not tiled, the whole surface must be finished with an application of Fermacell Powerpanel H₂O surface finish in accordance with the Certificate holder's instructions. Joints must be reinforced with an alkali resistant fibre tape.

16.9 Typical installation of the boards is given in Figure 2.



16.10 The level of supervision during installation of the system must be sufficient to ensure the quality of workmanship.

16.11 When a breather membrane is required, it must be installed and properly overlapped in accordance with the instructions of the membrane manufacturer and the building designer.

16.12 Boards can be cut using power tools⁽¹⁾. For best results, tungsten tipped blades should be used. To minimise the amount of dust, vacuum extraction should be applied. Without power tools, cutting can be carried out using a stout sharp knife by scoring along a straight edge through the glassfibre mesh, breaking the board over a supported edge and cutting through the underside mesh. Adequate PPE should be worn.

(1) Rail-guided circular saws are used for straight edges and jigsaws and core drills for details.

17 Procedure

The first board is screwed to the vertical studs. Fermacell Jointstik adhesive is applied on the full length of the edges of the board. The next and proceeding boards are positioned in the same manner. Cross joints (when a horizontal joint crosses a vertical joint) should be avoided. The excess of adhesive will be removed with a scraping knife once it has dried (approximately 8 hours in dry conditions).

18 Tests

Tests were carried out to determine:

- strength and robustness to BS 5234-2: 1992
- reaction to fire to BS EN 13501-1+A1 : 2009
- water absorption to EN 520 : 2004+A1 : 2009
- density to EN 323 : 1993
- thermal conductivity to EN 12664 : 2001
- water vapour permeability to EN ISO 12572 : 2001
- dimensional tolerance and stability to EN 325 : 2003

19 Investigations

19.1 An examination was made of the Evaluation Report prepared by DIBt for the assessment regarding the ETA 07/0087

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

19.3 The installation of a test specimen was observed to assess the practicability of installation.

Bibliography

- BS 476-21 : 1987 *Fire tests on building materials and structures. Methods for determination of the fire resistance of loadbearing elements of construction*
- BS 5234-2 : 1992 *Partitions (including matching linings). Specification for performance requirements for strength and robustness including methods of test*
- BS 5250 : 2011 *Code of practice for control of condensation in buildings*
- BS 5268-5 : 1989 *Structural use of timber — Code of practice for the preservative treatment of structural timber*
- BS 5589 : 1989 *Code of practice for preservation of timber*
- BS EN 520 : 2004+A1 : 2009 *Gypsum plasterboards. Definitions, requirements and test methods*
- BS EN 351-1 : 2007 *Durability of wood and wood-based products — Preservative-treated solid wood — Classification of preservative penetration and retention*
- BS EN 1365-1:2012 *Fire resistance tests for loadbearing elements. Walls*
- BS EN 1993-1-1 : 2005 *Eurocode 3 : Design of steel structures — General rules and rules for buildings*
- BS EN 1995-1-1 : 2004 *Eurocode 5 : Design of timber structures — General — Common rules and rules for buildings*
- BS EN 1996-1-1 : 2005 *Eurocode 6. Design of masonry structures. General rules for reinforced and unreinforced masonry structures*
- BS EN 13501-1 : 2007 *Fire classification of construction products and building elements — Classification using test data from reaction to fire tests*
- BS EN 13501-2 : 2007 *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*
- EN 322 : 1993 *Wood-based panels. Determination of moisture content*
- EN 323 : 1993 *Wood-based panels. Determination of density*
- EN 325 : 1993 *Wood-based panels. Determination of dimensions of test pieces*
- EN 520 : 2004+A1 : 2009 *Gypsum plasterboards. Definitions, requirements and test methods*
- EN 12664 : 2001 *Thermal performance of building materials and products. Determination of thermal resistance by means of guarded hot plate and heat flow meter methods. Dry and moist products of medium and low thermal resistance*
- EN ISO 12572 : 2001 *Hygrothermal performance of building materials and products. Determination of water vapour transmission properties*
- Agrément Technique Européen No. ATE-07/0087

20 Conditions

20.1 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 or 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.

20.2 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.

20.3 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.

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

20.5 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.

20.6 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.