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**Agrément Certificate**

**22/6185**

Product Sheet 1

### CEM-ROCK BOARD

### CEM-ROCK EXTREME FLOOR

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to Cem-Rock eXtreme Floor, a magnesium oxide board for use as structural internal flooring over timber joists in residential and commercial buildings.

(1) Hereinafter referred to as 'Certificate'.

#### 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

**Structural performance** — the product can resist the loads associated with its use in normal joisted constructions and transmit them to the supporting structure (see section 6).

**Behaviour in relation to fire** — the product has an A1 and A1<sub>fl</sub> reaction to fire classification in accordance with BS EN 13501-1 : 2018 (see section 7).

**Resistance to moisture** — when installed in accordance with this Certificate, the product will have adequate resistance to moisture (see section 8).

**Durability** — under normal service conditions, provided it is fixed to suitably stable and durable timber floor joists, the product will have a service life equal to the building in which it is installed (see section 10).

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: 4 August 2022

Hardy Giesler  
Chief Executive Officer

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 MUST check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly.

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

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## Regulations

In the opinion of the BBA, Cem-Rock eXtreme Floor, 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>A1</b>   | <b>Loading</b>   |
| Comment:            |             | The product has sufficient strength and stiffness to sustain and transmit design loads to the primary structure without excessive deflection. See section 6 of this Certificate. |
| <b>Regulation:</b>  | <b>7(1)</b> | <b>Materials and workmanship</b>   |
| Comment:            |             | The product is acceptable. See section 10 and the <i>Installation</i> part of this Certificate.  |



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

|                    |             |  |
|--------------------|-------------|--|
| <b>Regulation:</b> | <b>8(1)</b> | <b>Durability, workmanship and fitness of materials</b>  |
| Comment:           |             | The use of the product satisfies the requirements of this Regulation. See section 10 and the <i>Installation</i> part of this Certificate.   |
| <b>Regulation:</b> | <b>9</b>    | <b>Building standards applicable to construction</b>   |
| Standard:          | 1.1(a)(b)   | Structure  |
| Comment:           |             | The product has sufficient strength and stiffness to sustain and transmit design loads to the primary structure without excessive deflection, in accordance with clauses 1.1.1 <sup>(1)(2)</sup> , 1.1.2 <sup>(1)(2)</sup> and 1.1.3 <sup>(1)(2)</sup> of this Standard. See section 6 of this Certificate.  |
| Standard:          | 2.1         | Compartmentation   |
| Standard:          | 2.2         | Separation   |
| Standard:          | 2.3         | Structural protection  |
| Comment:           |             | The product can contribute to satisfying these regulatory Standards in accordance with clauses 2.1.12 <sup>(2)</sup> , 2.2.4 <sup>(2)</sup> , 2.2.5 <sup>(2)</sup> , 2.2.6 <sup>(1)</sup> , 2.2.7 <sup>(1)</sup> , 2.2.8 <sup>(1)</sup> , and 2.3.2 <sup>(1)(2)</sup> . See section 7.1 of this Certificate. |
| Standard:          | 7.1(a)      | 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.  |
| <b>Regulation:</b> | <b>12</b>   | <b>Building standards applicable to conversions</b>  |
| Comment:           |             | 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)

|                    |                    |   |
|--------------------|--------------------|---|
| <b>Regulation:</b> | <b>23(a)(i)</b>    | <b>Fitness of materials and workmanship</b>   |
| Comment:           | <b>(iii)(b)(i)</b> | The product is acceptable. See section 10 and the <i>Installation</i> part of this Certificate. |

**Regulation:** 30  
**Comment:**

**Stability**

The product has sufficient strength and stiffness to sustain and transmit design loads to the primary structure without excessive deflection. See section 6 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), 3 *Delivery and site handling* (3.1, 3.2 and 3.4) and 11 *General* (11.1 and 11.2) of this Certificate.

### **Technical Specification**

#### **1 Description**

1.1 Cem-Rock eXtreme Floor is a magnesium oxide board manufactured with the following characteristics:

|  |   |
|--|---|
| Length (mm)                                      | 1200, 2400                                    |
| Width (mm)                                       | 600, 900, 1100, 1200                          |
| Thickness (mm)                                   | 20  |
| Average density (kg·m <sup>-3</sup> )            | 935   |
| Average mass per unit area (kg·m <sup>-2</sup> ) | 18.7  |
| Edge type  | Square, z-type, tongue and groove             |
| Colours  | White and light grey                          |
| Finishes   | Standard (smooth on front and rough on back). |

1.2 The Certificate holder recommends the following as ancillary items for use with the product, but these materials have not been assessed by the BBA and are outside the scope of this Certificate:

- corrosion resistant stainless steel screw fixings (minimum 60 mm long by 4.8 mm diameter)
- damp proof membranes
- vapour control layers.

#### **2 Manufacture**

2.1 The board is manufactured from magnesium oxide, magnesium minerals, perlite and sawdust, with binders and reinforcing fibre glass mesh and non-woven cloth. The magnesium oxide paste is poured onto the fibre glass and non-woven fabrics, then the paste is left to dry and cure. The board is cut to size after the curing process is completed.

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 product is manufactured in China and are marketed/distributed in the UK by Greenspan System Sales Ireland Ltd. The management system at the factory has been assessed and registered as meeting the requirements of ISO 9001 : 2015 by Beijing Hyde International Certification Co. Ltd (Certificate 7697A18Q10902R0S).

### 3 Delivery and site handling

3.1 The boards are delivered to site on wooden pallets. Each pallet is labelled with the board type, size, thickness, edge type, pallet quantity, pallet weight, pallet measurements and the batch number.

3.2 The pallets may be stacked, but stacks must not exceed five pallets. The boards are supplied with a protective plastic sheet wrap which should not be removed until the boards are ready to be used, and are supplied on pallets suitable for unloading by forklift. Steel cable or chains should not be used in order to avoid damage to the pallets and the boards. Care should be taken not to subject pallets to any impact shock.

3.3 Boards should be stored horizontally in a ventilated and dry environment, on a firm, flat, raised surface, away from the working area or any mechanical plant. The boards should be covered and protected from the weather prior to installation. Boards should be installed dry. Boards should not be stored on edge.

3.4 The boards should always be lifted by at least two people and should be lifted from the stack rather than slid across, in order to prevent damage or scratches. The boards should be carried on edge.

## Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on the Cem-Rock eXtreme Floor.

## Design Considerations

### 4 General

4.1 Cem-Rock eXtreme Floor is suitable for use as a structural internal flooring over timber joists for dry moisture conditions in residential and commercial buildings (see section 6). The boards are for use in conjunction with a range of floor finishes, such as tiles, vinyl and carpets.

4.2 In suspended timber floor applications:

- timber support work must be designed and used in accordance with BS EN 1995-1-1 : 2004 and its UK National Annex, and the relevant national Building Regulations
- timber support joists must be at maximum centres of 600 mm and must be a minimum of 45 mm thick.

4.3 Ventilation underneath ground floors must be provided in accordance with BS 5250 : 2021. The ground beneath the floor should be free of topsoil and vegetation and be covered to resist moisture and prevent plant growth.

4.4 The product will provide a suitable substrate for loose-laid floor coverings or those bonded with suitable adhesives. Resilient floor coverings such as cork, linoleum, rubber or vinyl should be laid in accordance with BS 8203 : 2017.

4.5 The product has not been assessed for use with underfloor heating systems and its use with such systems is outside the scope of this Certificate.

### 5 Practicability of installation

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

## 6 Structural performance



6.1 For floor applications, designers must ensure that the selected board will satisfy the load requirements specified in BS EN 1991-1-1 : 2002. Characteristic values for structural design using wood-based flooring may be determined in accordance with BS EN 12871 : 2013 and used in accordance with the UK National Annex to BS EN 1995-1-1 : 2004.

6.2 Deflection must not exceed  $L/360$  of the span (where  $L$  is the length of the board) under the permanent and imposed design loads.

6.3 When tested to BS EN 1195 : 1998, the board with a joist span of 600 mm achieved a mean stiffness value of  $1810 \text{ N}\cdot\text{mm}^{-1}$ , a characteristic concentrated point load value of 3.68 kN and a characteristic uniformly distributed load (UDL) value of  $10.14 \text{ kN}\cdot\text{m}^{-2}$ . The board is suitable for use in Category A, B, C11, C13, C21, C22, C36, C37, C41, C51, D and E11 applications, as per Tables NA.3 and NA.5 of the UK National Annex to BS EN 1991-1-1 : 2002 (Categories defined in Tables NA.2 and NA.4, excerpts of which have been reproduced in Tables 1 and 2 of this Certificate).

**Table 1 Categories for residential, social, commercial and administration areas for the UK<sup>(1)(2)</sup>**

| Category of loaded area | Specific use  | Sub-category | Example  |
|-------------------------|---|--------------|--|
| A                       | Areas for domestic and residential activities   | A1           | All usages within self-contained dwelling units (a unit occupied by a single family or a modular student accommodation unit with a secure door and comprising not more than six single bedrooms and an internal corridor)<br>Communal areas (including kitchens) in blocks of flats with limited use. For communal areas in other blocks of flats, see A5, A6 and C3 |
|                         |   | A2           | Bedrooms and dormitories except those in self-contained single family dwelling units and in hotels and motels  |
|                         |   | A3           | Bedrooms in hotels and motels; hospital wards; toilet areas  |
|                         |   | A4           | Billiard/snooker rooms   |
|                         |   | A5           | Balconies in single family dwelling units and communal areas in blocks of flats with limited use   |
|                         |   | A6           | Balconies in hostels, guest houses, residential clubs and communal areas in blocks of flats except those not more than three storeys in height and with not more than four self-contained dwelling units per floor accessible from one staircase   |
|                         |   | A7           | Balconies in hotels and motels   |
| B                       | Office areas  | B1           | General use other than in B2   |
|                         |   | B2           | At or below ground floor level   |
| C                       | Areas where people may congregate (with the exception of areas defined under category A, B and D) | C1           | Areas with tables  |
|                         |   | C11          | Public, institutional and communal dining rooms and lounges, cafes and restaurants   |
|                         |   | C12          | Reading rooms with no book storage   |
|                         |   | C13          | Classrooms   |
|                         |   | C2           | Areas with fixed seats   |
|                         |   | C21          | Assembly areas with fixed seating  |
|                         |   | C22          | Places of worship  |
|                         |   | C3           | Areas without obstacles for moving people  |
|                         |   | C31          | Corridors, hallways, aisles in institutional type buildings not subjected to crowds or wheeled vehicles, hostels, guest houses, residential clubs, and communal areas in blocks of flats not more than three storeys in height and with not more than four self-contained dwelling units per floor accessible from one staircase                                     |
|                         |   | C32          | Stairs, landings in institutional type buildings not subjected to crowds or wheeled vehicles, hostels, guest houses, residential clubs, and communal areas in blocks of flats not more than three storeys in height and with not more than four self-contained dwelling units per floor accessible from one staircase  |
|                         |   | C33          | Corridors, hallways, aisles in all buildings not covered by C31 and C32, including hotels and motels and institutional buildings subjected to crowds   |
|                         |   | C34          | Corridors, hallways, aisles in all buildings not covered by C31 and C32, including hotels and motels and institutional buildings subjected to wheeled vehicles, including trolleys   |
|                         |   | C35          | Stairs, landings in all buildings not covered by C31 and C32, including hotels and motels and institutional buildings subjected to crowds  |
|                         |   | C36          | Walkways — Light duty (access suitable for one person, walkway width approx 600 mm)  |
|                         |   | C37          | Walkways — General duty (regular two-way pedestrian traffic)   |
|                         |   | C38          | Walkways — Heavy duty (high density pedestrian traffic including escape routes)  |
|                         |   | C39          | Museum floors and art galleries for exhibition purposes  |
| C4                      | Areas with possible physical activities   |              |  |
| C41                     | Dance halls and studios, gymnasia, stages   |              |  |
| C42                     | Drill halls and drill rooms   |              |  |
| C5                      | Areas susceptible to large crowds   |              |  |
| C51                     | Assembly areas without fixed seating, concert halls, bars and places of worship                   |              |  |
| C52                     | Stages in public assembly areas   |              |  |
| D                       | Shopping areas  | D1           | Areas in general retail shops  |
|                         |   | D2           | Areas in department stores   |

- (1) Excerpt from Table NA.2, of the UK National Annex to BS EN 1991-1-1 : 2002.  
 (2) Cem-Rock eXtreme Floor is suitable for use in Category A, B, C11, C13, C21, C22, C36, C37, C41, C51 and D applications (as defined by this table) only.

**Table 2 Categories for storage and industrial areas including additional sub-categories for the UK<sup>(1)(2)</sup>**

| Category of loaded area | Specific use   | Sub-category | Example   |
|-------------------------|--|--------------|---|
| E1                      | Areas susceptible to accumulation of goods, including access areas | E11          | General areas for static equipment not specified elsewhere (institutional and public buildings) |
|                         |  | E12          | Reading rooms with book storage, e.g. libraries   |
|                         |  | E13          | General storage other than those specified  |
|                         |  | E14          | File rooms, filing and storage space (offices)  |
|                         |  | E15          | Stack rooms (books)   |
|                         |  | E16          | Paper storage for printing plants and stationery stores   |
|                         |  | E17          | Dense mobile stacking (books) on mobile trolleys, in public and institutional buildings         |
|                         |  | E18          | Dense mobile stacking (books) on mobile trucks, in warehouses                                   |
|                         |  | E19          | Cold storage  |
| E2                      | Industrial use   | -            | See PD 6688 for imposed loads on floors for areas of industrial use                             |

- (1) Excerpt from Table NA.4, of the UK National Annex to BS EN 1991-1-1 : 2002.  
 (2) Cem-Rock eXtreme Floor is suitable for use in Category E11 applications (as defined by this table) only.

## 7 Behaviour in relation to fire



7.1 The product is classified as A1 and A1<sub>fl</sub> in accordance with BS EN 13501-1 : 2018. Full details are available in Report No. 211019016SHF-006, issued on 22 November 2021, available from the Certificate holder.

7.2 Where the fire resistance of floor constructions incorporating the boards is required, the fire resistance should be confirmed by an appropriate tests or assessments by a suitably accredited laboratory.

7.3 Constructions incorporating the boards achieved the period of fire resistance shown in Table 3. Users should refer to the referenced test reports, available from the Certificate holder, for the full construction details.

**Table 3 Fire resistance duration – loadbearing constructions**

| Duration <sup>(1)</sup> (minutes) | Load (kg/m <sup>2</sup> ) | Construction (from face exposed to fire outwards / upwards)  | Classification to BS EN 13501-2 | Test method / Report reference   |
|-----------------------------------|---------------------------|--|---------------------------------|--|
| R = 52<br>E = 52<br>I = 52        | 153                       | 15 mm gypsum plasterboard<br>SpaceJoists (4000x219x72) spaced at 418 mm<br>20 mm Cem-Rock eXtreme Floor boards | REI 45                          | BS EN 1365-2 : 2014<br>Report No. 10094/21,<br>dated 11 November<br>2021 |

(1) Where R is loadbearing capacity, E is Integrity and I is Thermal insulation, as defined in BS EN 13501-2 : 2016.

## 8 Resistance to moisture

8.1 Damp-proof membranes and vapour control layers should be incorporated for ground floors as necessary in accordance with the requirements of BS 8103-3 : 2013 and BS 5250 : 2021.

8.2 The board has a water vapour resistance of 19.8 MN·s·g<sup>-1</sup> in accordance with BS EN ISO 12572 : 2001.

8.3 The board has a water absorption of 10.9% in accordance with BS EN 520 : 2004.

8.4 When exposed to a relative humidity change from 30% to 90%, the board underwent a linear sheet moisture movement of 0.11% in the longitudinal direction and 0.13% in the transverse direction.

8.5 When exposed to high humidity environments as defined in PAS 670 : 2021, Section 13, for a duration of 170 days the board did not exhibit any liquid droplets on the surface.

8.6 If wetted, the board must be allowed to dry out thoroughly before applying any floor coverings or surface coatings, or applying the full design load.

8.7 When used in high risk areas such as wet rooms, the board must be protected from wetting with provision of a continuous waterproofing, sealed at wall junctions and where services protrude through the floor.

## 9 Maintenance

As the board has adequate durability (see section 10), will normally be confined within the flooring structure and, in most cases, will be covered with finishes, maintenance is not required. However, care must be exercised to ensure the surface of the board is not damaged when the floor finish is removed or replaced.

## 10 Durability



10.1 The board has been tested and is not susceptible to algal growth.

10.2 Under normal service conditions, provided the product is fixed to suitably stable and durable timber floor joists, it will have a service life equal to the building in which it is installed.

## Installation

### 11 General

11.1 Cem-Rock eXtreme Floor can be cut and fixed using conventional woodworking tools, though the use of handsaws with hardened teeth is recommended. The board may be cut using a circular saw with tungsten carbide tipped blade or a jigsaw. All cutting should take place in well ventilated spaces and using dust extraction facilities. Suitable dust control measures must be taken (eg protective safety glasses and respiratory masks) observing all necessary health and safety regulations. The boards must be stored, handled and used in accordance with this Certificate and the Certificate holder's installation and health and safety instructions.

11.2 The board can withstand normal site handling and fixing. Damaged boards should not be used. Normal safety precautions should be observed when handling large panels. Reasonable precautions must be taken to ensure the board is not damaged during installation.

11.3 The board should be installed in dry conditions at an ambient temperature of 5°C or above.

### 12 Procedure

12.1 The boards must be laid perpendicular to floor framing members, ensuring that all short edges of the flooring are fully supported on joists or perimeter timber framing (ie noggins). A minimum 10 mm gap must be provided between floor perimeter and wall or projections.

12.2 The boards must be cut so that the joints fit the floor area tightly, with joints staggered in a stretcher-bond brick pattern ensuring four board corners do not meet at one point.

12.3 Starting from the corner, the first board is laid and mechanically fixed at maximum 200 mm centres. Fixings are positioned at a minimum of 12 mm from any board edge and a minimum of 50 mm from the board corners. Subsequent boards are laid out and fixed in the same manner with staggered joints.

12.4 After installation of the boards, they should be left for approximately 24 to 48 hours to allow the boards to equalise to the moisture content of the ambient atmosphere. Once equilibrium moisture content is achieved, the surface of the joints should be cleaned.



## 13 Repair

Under normal conditions of occupancy, the board is unlikely to suffer damage. Should damage occur, repairs are carried out by replacing the damaged board.

## Technical Investigations

## 14 Tests

Tests were carried out and the results assessed to determine:

- density
- reaction to fire
- resistance to algal growth
- dimensional tolerances
- resistance to freeze/thaw
- resistance to heat/rain
- bending strength
- resistance to pull-through of fixings
- water absorption
- moisture movement
- performance in high humidity conditions
- resistance to static load
- resistance to impact load
- water vapour permeability.

## 15 Investigations

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

- BS 5250 : 2021 *Management of moisture in buildings – Code of practice*
- BS 8103-3 : 2013 *Structural design of low-rise buildings – Code of practice for masonry walls for housing*
- BS 8203 : 2017 *Code of practice for installation of resilient floor coverings*
- BS EN 520 : 2004 *Gypsum plasterboards. Definitions, requirements and test methods*
- BS EN 1195 : 1998 *Timber structures – Test methods – Performance of structural floor decking*
- BS EN 1991-1-1 : 2002 *Eurocode 1 – Actions on structures – General actions – Densities, self-weight, imposed loads for buildings*
- NA to BS EN 1991-1-1 : 2002 *UK National Annex to Eurocode 1 – Actions on structures – General actions – Densities, self-weight, imposed loads for buildings*
- BS EN 1995-1-1 : 2004 + A2 : 2014 *Design of timber – General – Common rules and rules for buildings*
- UK National Annex to BS EN 1995-1-1 : 2004 + A2 : 2014 *Design of timber – General – Common rules and rules for buildings*
- BS EN 12871 : 2013 *Wood-based panels – Determination of performance characteristics for load bearing panels for use in floors, roofs and walls*
- BS EN 13501-1 : 2018 *Fire classification of construction products and building elements – Classification using data from reaction to fire tests*
- BS EN ISO 9001 : 2015 *Quality management systems – Requirements*
- BS EN ISO 12572 : 2001 *Hygrothermal performance of building materials and products – Determination of water vapour transmission properties*
- PAS 670 : 2021 *Magnesium oxide-based boards for use in buildings – Specification*

### 16 Conditions

16.1 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.

16.2 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.

16.3 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.

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

16.5 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.

16.6 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.