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Agrément Certificate
16/5312
Product Sheet 2

JACKOBOARD

JACKOBOARD AQUA, Q-BOARD AND DOMOBOARD SHOWER ELEMENTS

This Agrément Certificate Product Sheet⁽¹⁾ relates to Jackoboard⁽²⁾ Aqua, Q-Board and Domoboard Shower Elements, a range of shower trays for use as part of built-in shower systems.

(1) Hereinafter referred to as 'Certificate'.

(2) Jackoboard is a registered trademark.

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

Watertightness — the products will provide a waterproof shower area (see section 6).

Bond strength — when used with a suitable adhesive, the adhesion of the products to the substrate, and the adhesion of tiles to the products is satisfactory (see section 7).

Resistance to mechanical damage — the products have satisfactory resistance to mechanical damage (see section 8).

Durability — the products will have a service life of at least 10 years (see section 11).

The BBA has awarded this Certificate to the company named above for the products described herein. These products have been assessed by the BBA as being fit for their intended use provided they are installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of First issue: 27 April 2016

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

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, Jackoboard Aqua, Q-Board and Domoboard Shower Elements, 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)

Requirement:	C2(d)	Resistance to moisture
Comment:		The products will contribute to a floor satisfying this Requirement. See section 6 of this Certificate.
Requirement:	M1	Access and use
Comment:		The products will contribute to satisfying this Requirement. See section 9 of this Certificate.
Regulation:	7	Materials and workmanship
Comment:		The products are acceptable. See section 11 and the <i>Installation</i> part of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)	Durability, workmanship and fitness of materials
Comment:		The products are acceptable. See section 11 and the <i>Installation</i> part of this Certificate.
Regulation:	9	Building standards applicable to construction
Standard:	3.12	Sanitary facilities
Comment:		The products can contribute to satisfying this Standard, with reference to clause 3.12.10 ⁽¹⁾ . See section 9 of this Certificate.
Standard:	7.1(a)(b)	Statement of sustainability
Comment:		The products 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 the products under Regulation 9, Standards 1 to 6, also apply to this Regulation, with reference to clause 0.12.1 ⁽¹⁾ and Schedule 6 ⁽¹⁾ . (1) Technical Handbook (Domestic).



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

Regulation:	23(a)(i)(ii)(iii)(b)(i)	Fitness of materials and workmanship
Comment:		The products are acceptable. See section 11 and the <i>Installation</i> part of this Certificate.
Regulation:	86(1)	Sanitary appliances
Comment:		The products can contribute to meeting this Regulation. See section 9 of this Certificate.

Construction (Design and Management) Regulations 2015

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

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

See sections: 1 *Description* (1.3) and 3 *Delivery and site handling* (3.1 to 3.5 and 3.7) of this Certificate

Technical Specification

1 Description

1.1 Jackoboard Aqua, Q-Board and Domoboard Shower Elements are a range of shower trays, consisting of a proprietary rigid extruded polystyrene core, coated on both faces with a polymer-modified cementitious coating reinforced with a glassfibre mesh.

1.2 Each element is manufactured with falls towards the drain outlet.

1.3 The elements are available in the range of shapes and standard sizes detailed in Table 1. Other sizes are available on request.

1.4 The products are marketed under the trade names of Jackoboard Aqua, Q-Board or Domoboard.

Table 1 Product range

Shower tray type	Width (mm)	Length (mm)	Thickness (mm)
Aqua (central and offset drain) ⁽¹⁾	800, 900, 1000, 1200, 1500, 1800	800, 900, 1000, 1200, 1500	40, 50
Aqua Flat (central and offset drain)	800, 900, 1000, 1200, 1300, 1500, 1800	800, 900, 1000, 1200	20, 25
Q-Board shower tray	900, 1000, 1200, 1600, 1800	900, 1000, 1200	20, 25, 40, 50
Domoboard shower tray	800, 900, 1000, 1200, 1500, 1800	800, 900, 1000, 1200, 1500	20, 25, 40, 50

(1) Aqua central and offset shower trays are available in square, rectangular and quadrant profiles.

1.5 Ancillary items necessary for installation of the products and included in this assessment are:

- Jackoboard Glass Fibre Tape — for reinforcing abutting edges of the shower elements and boards, and sealing abutting edges when used in conjunction with Jackoboard Board Fix
- Jackoboard Board Fix — a modified silane (MS) type adhesive and sealing agent for glueing and sealing joints between boards
- Jackoboard Sealing Set 2-k — a sealing kit comprising a two-component waterproofing compound, pre-formed corners and Jackoboard Sealing Tape for reinforcing and sealing abutting edges of the shower elements and boards
- Jackoboard Plano, Q-Board and Domoboard construction boards (the subjects of Product Sheet 1 of this Certificate).

1.6 Other items or components which may be used with the products, but which are outside the scope of this Certificate, are:

- flexible cementitious tile adhesive conforming to BS EN 12004 : 2007
- flexible grout conforming to BS EN 13888 : 2009
- suitable floor tiles
- Jackoboard Drain Elements — a range of drain elements for use with Jackoboard Aqua, Q-Board and Domoboard Shower Elements
- fixing clips and brackets.

Details of suitable products/specifications must be obtained from the Certificate holder.

2 Manufacture

2.1 The shower elements are manufactured by cutting and milling extruded polystyrene boards to the required size, and applying a glassfibre mesh-reinforced synthetic mortar and fixing drain connecting collars.

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 Jackson Insulation GmbH has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2008 by DQS GmbH (Certificate 067674 QM08 UM).

2.4 The products are manufactured in Germany by the Certificate holder and are distributed in the UK by TileBacker Ltd, Unit 1, Hindley Industrial Estate, 3 Ormside Close, Hindley Green, Wigan, WN2 4HR. Tel: 01204 221089, Fax 01942 253711, e-mail: info@tile-backer.co.uk

3 Delivery and site handling

3.1 The shower elements are supplied individually boxed.

3.2 Jackoboard Plano, Q-Board and Domoboard construction boards are supplied on mini or maxi pallets. The maximum quantity of boards per pallet will depend on the thickness and size of board. The Certificate holder should be consulted for details.

3.3 Jackoboard Board Fix is supplied in 290 ml cartridges in cardboard boxes, 12 cartridges per box.

3.4 Jackoboard Glass Fibre Tape is supplied in rolls, 125 mm wide x 25 m long, in boxes of 10 rolls.

3.5 Jackoboard Sealing Tape is supplied in single rolls, 120 mm wide and 10 m or 50 m long.

3.6 The products must be stored flat on a dry level surface, protected from extreme temperatures and sources of contamination in accordance with the Certificate holder's instructions.

3.7 The Certificate holder has taken the responsibility of classifying and labelling the products under the *CLP Regulation (EC) No 1272 / 2008 on the classification, labelling and packaging of substances and mixtures*. Users must refer to the relevant Safety Data Sheet(s).

Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Jackoboard Aqua, Q-Board and Domoboard Shower Elements.

Design Considerations

4 Use

4.1 Jackoboard Aqua, Q-Board and Domoboard Shower Elements are satisfactory for use as built-in shower trays in private residential and public buildings.

4.2 The elements must be fully supported on stable timber or concrete floors.

4.3 Tiles should be fixed using a suitable flexible cementitious adhesive and grout. Mosaic tiles ≤ 25 mm should be grouted with an epoxy resin grout. Where wheelchair access is required, tiles must be ≥ 50 mm x 50 mm.

5 Practicability of installation

Installation of the products can be carried out by a competent general builder, or a contractor, experienced with these types of products.

6 Watertightness



6.1 The shower elements can be used as part of a built-in shower system to provide a waterproof shower enclosure.

6.2 Jackoboard Drain Elements, when installed in accordance with the Certificate holder's instructions, will form a watertight seal with the shower elements.

7 Bond strength

7.1 When a suitable flexible cementitious adhesive is used, the adhesion of the shower elements to the substrate and of the tiles to the shower element is satisfactory.

7.2 The advice of the Certificate holder must be sought for suitable adhesives and grouts.

8 Resistance to damage

8.1 The resistance to compression of the shower elements is satisfactory and capable of resisting the uniformly distributed loads likely to be experienced in service with minimal deflection.

8.2 The level of resistance to concentrated loads will depend on the size and strength of the tiles used and must be carefully considered, especially in special cases, eg when wheelchair access is required. See section 4.3 for minimum tile dimensions.

9 Access and use



9.1 Installations of the products can be designed to provide step-free access to shower facilities and facilitate access, eg by wheelchairs.

9.2 The products are manufactured with designed falls to the outlet to ensure efficient drainage. Care must be taken to retain the falls when fixing the elements and after tiling.

10 Maintenance

Installations of the products will not require maintenance other than cleaning of tiles. Drain traps must be regularly cleared of obstructions to ensure satisfactory drainage.

11 Durability



11.1 Under normal conditions the products will have a service life of at least 10 years.

11.2 The performance and durability of Jackoboard Drain Elements have not been assessed and are outside the scope of this Certificate.

12 General

12.1 Jackoboard Aqua, Q-Board and Domoboard Shower Elements must be installed fully supported on a stable substrate, in accordance with the Certificate holder's installation instructions and this Certificate.

12.2 Existing floors must be in good condition. Damaged joists in wooden floors must be repaired or replaced prior to installing the products.

12.3 The products must be fully bonded to the substrate using a flexible cementitious tile adhesive approved by the Certificate holder, and in accordance with the adhesive manufacturer's instructions for mixing and use.

12.4 All joints between the shower elements and adjacent boards must be sealed with Jackoboard Board Fix and reinforced with Jackoboard Glass Fibre Tape. In any areas that may be subjected to heavy usage, eg public showers or leisure centres, all joints must be sealed using the Jackoboard Sealing Kit.

12.5 Only Jackoboard Drain Elements approved by the Certificate holder must be used with the products, and must be fixed in accordance with the Certificate holder's instructions.

12.6 Drainage pipes must be carefully positioned and correctly sized to accept the outlet pipe from the drain element. Reference should be made to BS EN 12056-1 : 2000 and BS EN 12056-2 : 2000.

13 Procedure

13.1 The lower part of the drain must, in the case of a concrete floor, be supported by a cement screed, or, in the case of a timber floor, on a timber platform constructed between the floor joists. The lower part of the drain is positioned so that it lines up with the drain position in the shower tray and its top edge is at the same height as the lower surface of the shower tray.

13.2 In concrete floor installations, any cavities created to take the waste pipe and drain must be filled using a suitable levelling screed, to create a completely flat surface on which to fix the shower tray. In timber floor installations, a timber platform should be constructed between the floor joists to support the shower tray over its entire area.

13.3 Before fixing the tray in place, a 'dry fit' must be carried out to ensure that the tray and drain are correctly aligned.

13.4 The rubber seal must be correctly installed into the lower part of the drain and lubricated with plumber's grease.

13.5 Once the levelling screed has set (concrete floors) or timber platform has been constructed (timber floors) and the surface has been primed, the shower tray can be fixed using a flexible, cement-based tile adhesive. This is applied to the underside of the tray using a medium-sized notched trowel, ensuring that the entire surface is covered so that no voids are left once the tray is installed.

13.6 The shower tray is positioned over the lower part of the drain and pressed onto the prepared surface, ensuring that the upper part of the drain which is bonded into the tray fits through the lower seal. The four sides of the tray are checked to ascertain that they are level and that the fall which is built into the tray has been maintained. If the adhesive layer which has been applied to the underside of the tray is uneven, this can affect the falls that have been machined into the tray. The tray is secured to the lower part of the drain body using the locking ring and locking tool which are supplied with the drain kit.

13.7 The spigot of the grate support frame is cut to the length required to accommodate the thickness of tiles, adhesive and any electrical underfloor heating cables.

13.8 The shower tray is tiled using a flexible, cement-based tile adhesive. Tiles greater than 10 cm x 10 cm must be cut to maintain the falls in the tray.

14 Repair

14.1 Detached tiles must be replaced immediately by cleaning the area to be repaired and re-tiling in accordance with section 13.8 of this Certificate.

14.2 In the event of significant damage to any Jackoboard Aqua, Q-Board and Domoboard element, the Certificate holder must be consulted for advice on a suitable repair method. In extreme cases, replacement may be required.

15 Tests

Tests were carried out to confirm the watertightness of Jackoboard Drain Elements to Jackoboard Shower Elements.

16 Investigations

16.1 Test data from an independent laboratory were assessed to establish the compression characteristics of the foam core.

16.2 Test data were assessed to establish the watertightness of joints.

16.3 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.

16.4 Visits were carried out to existing installations and a site in progress to assess the practicability of installation of the products.

Bibliography

BS EN 12004 : 2007 *Adhesives for tiles — Requirements, evaluation of conformity, classification and designation*

BS EN 12056-1 : 2000 *Gravity drainage systems inside buildings — General and performance requirements*

BS EN 12056-2 : 2000 *Gravity drainage systems inside buildings — Sanitary pipework, layout and calculation*

BS EN 13888 : 2009 *Grout for tiles — Requirements, evaluation of conformity, classification and designation*

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

17 Conditions

17.1 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.

17.2 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.

17.3 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.

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

17.5 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.

17.6 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.