



Approval body for construction products and types of construction

Bautechnisches Prüfamt

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European Technical Assessment

ETA-23/0244 of 4 March 2024

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:	Deutsches Institut für Bautechnik
Trade name of the construction product	Qboard waterproofing system
Product family to which the construction product belongs	Watertight covering kits based on inherently watertight boards for wet room floors and/or walls
Manufacturer	Jackon Insulation GmbH Ritzlebener Straße 1 39619 Arendsee DEUTSCHLAND
Manufacturing plant	Jackon Insulation GmbH Ritzlebener Straße 1 39619 Arendsee DEUTSCHLAND
This European Technical Assessment contains	11 pages including 5 annexes which form an integral part of this assessment
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of	EAD 030437-00-0503

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Specific part

1 Technical description of the product

The "Qboard waterproofing system" is a watertight covering kit based on inherently watertight boards for wet room floors and walls.

The kit consists of the following components:

• Watertight boards "Qboard basiq" for walls and floors on the basis of extruded polystyrene foam (XPS). The boards are reinforced on both sides with a fiberglass mesh and coated with a special cementitious mortar. They have the following main dimensions:

Length	[mm]:	1200 - 2600
Width	[mm]:	600 - 1200

Thickness [mm]: 4 - 80

• Watertight shower elements "Qboard liquid" for floors on the basis of extruded polystyrene foam (XPS). The shower elements are reinforced on both sides with a fiberglass mesh and coated with a special cementitious mortar. They have an integrated flange or a drainage channel for connecting a floor drain and are sloped towards the floor drain. In certain cases, the floor drains are installed at manufacturing plant. The drain is not part of the kit.

The shower elements are manufactured in various shapes and geometries and have the following main dimensions:

Length	[mm]:	900 - 2600
Width	[mm]:	900 - 1500
Thickness	[mm]:	20 - 80

- Sealing collars 120 x 120 mm, 150 x 150 mm, 350 x 350 mm, 400 x 400 mm (without hole) for sealing of pipe penetrations and floor drains.
- "Qboard sealing set 2-k" for sealing the panel joints, penetrations and details consists of twocomponent mineral sealing slurry, sealing tape and ingoing corners. If necessary, "Qboard outgoing corners" can also be used.
- "BOARD-FIX adhesive and sealing agent" for bonding and sealing of panel joints, penetrations and sealing details.
- Following tile adhesives according to EN 12004¹ for adhering the watertight boards or shower elements onto the substrate as well as adhering the tiles onto the waterproofing: "Ardex X 77"

"MAPEI Keraflex Maxi S1"

"Saint-Gobain Weber webercol flex"

"MAPEI Ultralite S1"

"PCI Flexmörtel S1"

"VPI Colliflex Premium 2 V 410"

"Schönox Q6"

"Schönox CF Design"

"Sopro's No. 1 schnell Flexkleber No. 1 404"

"Saint-Gobain Weber weber.xerm 852"

EN 12004:2007+A1:2012

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The kit is intended to be used under a wearing surface, e.g., tiles. The wearing surface and its jointing material are not part of the kit, but are considered during the assessment of the intended use of the product.

Annexes A1, A3 and A4 show the system build-up, examples of the watertight boards and shower elements and the other components for sealing of details.

2 Specification of the intended use in accordance with the applicable European Assessment Document

The intended use of the watertight covering kit under a wearing surface is to create a floor and wall watertight covering for indoor wet areas at possible operating temperature of 5 °C to 40 °C. The following uses are intended:

- Floor and/or wall surfaces with only occasional direct exposure to water, e.g., at a good distance from shower or bathtub;
- Floor and/or wall in shower areas or around bathtubs used for a few showers daily, e.g., in ordinary dwellings, multifamily houses and hotels;
- Floor and/or wall surfaces with exposure to water more frequent or of longer duration than normally anticipated in dwellings, e.g., public wet rooms, schools and sport facilities.

The watertight covering kit is intended to be used on flexible substrates, e.g., plywood, chipboard, gypsum, anhydrite or similar material vulnerable to water and on rigid substrates, e.g., masonry or concrete.

The product is used in connection with floor drains made of stainless steel or plastics – PE, PP or ABS – with adhesive flange for the collar/sealing layer or with clamping ring and collar.

The drains are not part of the kit. It is up to the responsibility of the user to use suitable products of the given type.

The performances given in Section 3 are only valid if the watertight covering kit is used in compliance with the specifications and conditions given in Annex B and the installation instructions of the manufacturer stated in the technical documents².

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the watertight covering kit of at least 25 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment

3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	see Annex A2

²

The manufacturer's technical documents comprise all information necessary for the production and the installation of the product as well as for repair of the roof waterproofing made from that and it is deposited with DIBt.



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3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Content, emission and/or release of dangerous substances	see Annex A2
Vapour permeability	see Annex A2
Water tightness	see Annex A2
Crack bridging ability	see Annex A2
Bond strength	see Annex A2
Scratching resistance	see Annex A2
Joint bridging ability	see Annex A2
Impermeability at sealings	see Annex A2
Dimensional stability	see Annex A2
Water tightness around penetration	see Annex A2
Resistance to temperature	see Annex A2
Resistance to mechanical wear	see Annex A2
Resistance to alkalinity	see Annex A2

3.3 Safety and accessibility (BWR 4)

Essential characteristic	Performance
Slipperiness	see Annex A2
Cleanability	see Annex A2
Thickness	see Annex A2

3.4 General aspects

The verification of durability and serviceability is only ensured if the specifications of intended use according to Annex B and the specifications of the technical file of the manufacturer are kept.

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with EAD 030437-00-0503, the applicable European legal act is: 2003/665/EC. The system to be applied is: 2+

In addition, with regard to reaction to fire for products covered by this EAD the system to be applied is: 3



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5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

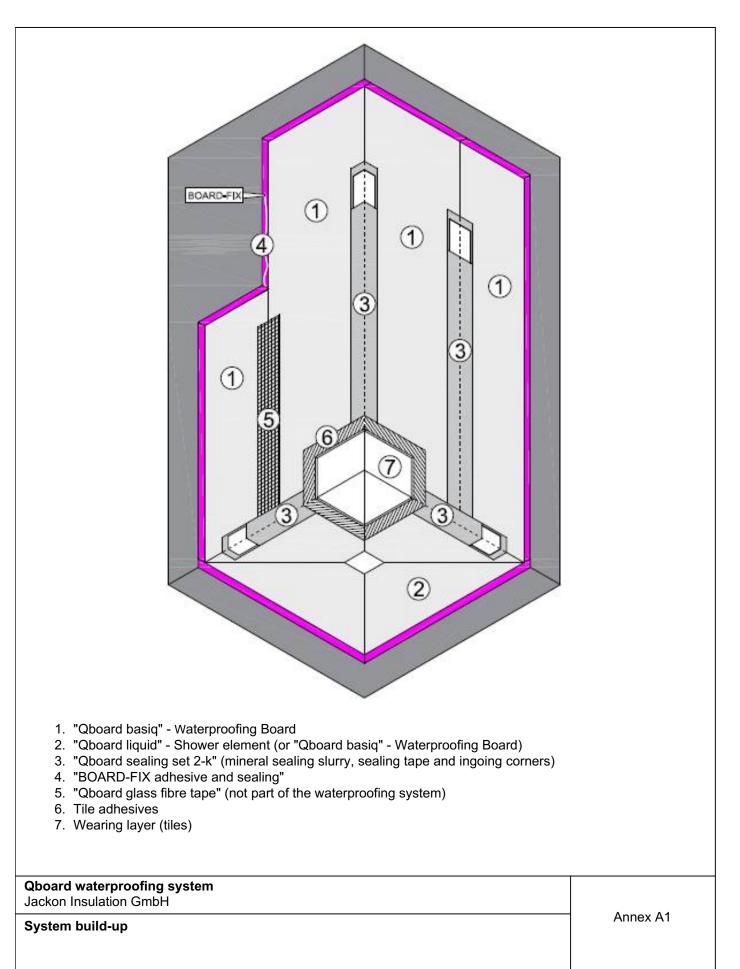
Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

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Jürgen Banzer Head of Section (acting) *beglaubigt:* Hannoun

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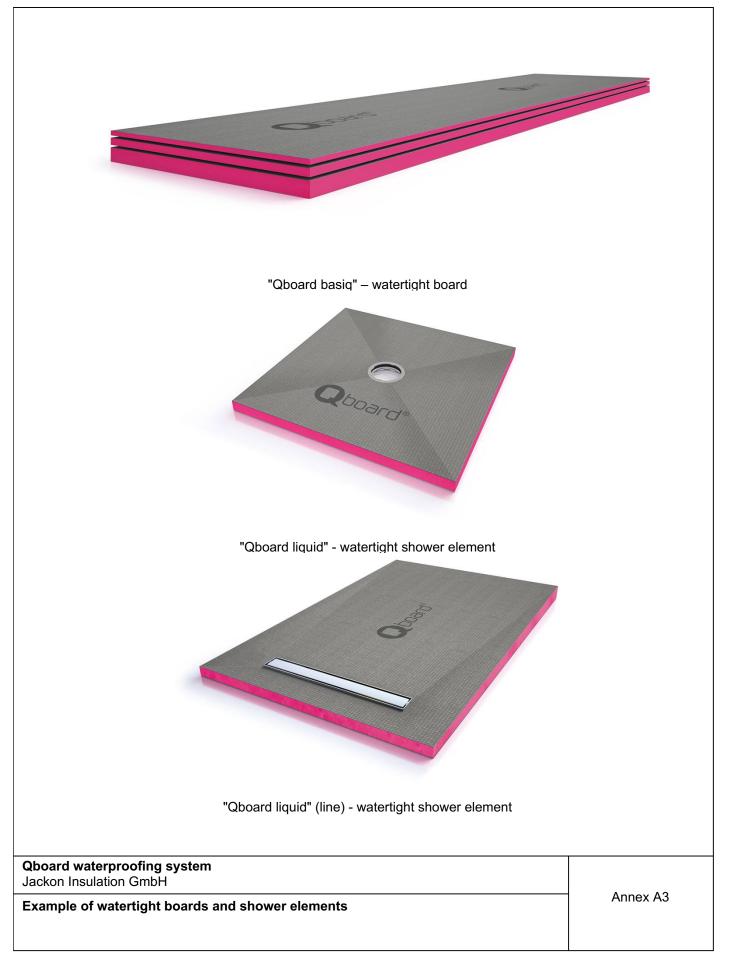




Working life	25 years		
Essential characteristic	Performance		
Reaction to fire EN 13501-1	Class E		
Content, emission and/or release of dangerous substances ^{a)}			
Component: Tile adhesive (CE-marked)	According to EN 120	According to EN 12004	
All other components:			
Substances, classified as Carc. 1A/1B ^{b)}	None of these raw m	natorials are actively	
Substances, classified as Muta. 1A/1B ^{b)}		=	
Substances, classified as Acute Tox. 1, 2, 3;	 - used in the manufacture of the construction product^{c) d)} 		
Repr. 1A/1B; STOT SE 1 and STOT RE 1 ^{b)}			
SVOC and VOC	No performance ass	essed	
Vapour permeability			
d = 4 mm	s _d = 0.43 m		
d = 40 mm	s _d = 2.70 m		
d = 80 mm	s _d = 5.23 m		
Water tightness	Watertight		
Crack bridging ability	Category 1: Crack w	idth 0.4 mm	
Bond strength using the tile adhesives:			
"Ardex X 77"; "MAPEI Keraflex Maxi S1";			
"Saint-Gobain Weber webercol flex"; "MAPEI Ultralite S1"	Category 2: Bond str	rength ≥ 0.3 MPa	
"PCI Flexmörtel S1"; "VPI Colliflex Premium 2 V 410"; "Schönox Q6";			
"Schönox CF Design"; "Sopro's No. 1 schnell Flexkleber No. 1 404";	Category 3: Bond str	rength ≥ 0.5 MPa	
"Saint-Gobain Weber weber.xerm 852"			
Scratching resistance	No performance ass	No performance assessed (not relevant)	
	Can bridge joints		
Joint bridging ability	(watertight, joint width 2 mm)		
Impermeability at sealings	Watertight		
Dimensional stability	0.2 % - 0.9 % (all directions)		
Water tightness around penetrations	Watertight		
(Tests according to Annex A ^{e)} and Annex E ^{f)} of EAD 030352-00-0503)	(on flexible and rigid substrates)		
Resistance to temperature	± 17 % stiffness;		
(8 weeks at 50° C)	(Bond strength ≥ 0.3 MPa)		
Resistance to mechanical wear	No performance assessed (not relevant)		
Resistance to alkalinity	Category 2: Bond strength ≥ 0.3 MPa		
Slipperiness	No performance assessed		
Cleanability	No performance assessed (not relevant)		
Thickness	· · · F · · · · · · · · · · · · · · ·		
Watartight boards "Oboard basig"	4 - 80 mm		
Watertight shower elements "Qboard liquid"	20 – 80 mm		
 a) Release scenarios regarding BWR 3: IA 2. b) In accordance with Regulation (EC) No 1272/2008. c) Active use is the targeted use of substances to achieve specific product properties. secondary component in the product are therefore not to be regarded as "actively u d) Assessment based on the detailed manufacturers' statements on dangerous substa e) Floor test: Water tightness of whole waterproofing system in end use conditions on drains, board joints and other details. f) Wall test: Water tightness and resistance to moisture of whole waterproofing system including wall penetrations, board joints and other details. 	sed". ances. a flexible substrates (floor), ir	ncluding floor penetrations,	
Qboard waterproofing system ackon Insulation GmbH Performances of the product		Annex A2	

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Installation

The levels of use categories and the performances of the waterproofing kit can be assumed only, if the installation is carried out according to the installation instructions stated in the technical file of the manufacturer, in particular taking account of the following points:

- installation by appropriately trained personnel
- installation of only those components which are specified components of the kit
- installation with the required tools and adjuvant
- precautions during installation
- inspecting the substrate surface for cleanliness and correct treatment
- inspecting during installation and of the finished watertight membrane and documentation of the results

Qboard waterproofing system Jackon Insulation GmbH

Intended use Specifications for the Installation Annex B