



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-23/0248 of 29 November 2023

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:

Trade name of the construction product

Product family to which the construction product belongs

Manufacturer

Manufacturing plant

This European Technical Assessment contains

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of

Deutsches Institut für Bautechnik

JACKOBOARD waterproofing system

Watertight covering kits based on inherently watertight boards for wet room floors and or walls

Jackon Insulation GmbH Ritzlebener Straße 1 39619 Arendsee DEUTSCHLAND

Jackon Insulation GmbH Ritzlebener Straße 1 39619 Arendsee

11 pages including 5 annexes which form an integral part of this assessment

030437-00-0503



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Specific part

1 Technical description of the product

The watertight covering "JACKOBOARD waterproofing system" is a waterproofing kit with watertight boards for wet rooms. It consists of the following components:

 watertight boards "JACKOBOARD Plano/Plano F" on the basis of extruded polystyrene foam (XPS), coated on both sides with cement mortar, reinforced with a fiberglass material for walls and floors with following main dimensions:

Length: 1200 - 2600 mm Width: 600 - 1200 mm Thickness: 4 - 80 mm

 watertight shower elements "JACKOBOARD Aqua" on the basis of extruded polystyrene foam (XPS), coated on both sides with cement mortar, reinforced with a fiberglass material for floors. The boards are available in different geometries with following main dimensions:

Length: 900 – 2600 mm Width: 900 – 1500 mm Thickness: 20 – 80 mm

The floor boards have an integrated flange or drainage channel for connecting a floor gully and are sloped in direction to the floor gully. In certain cases, the floor gullies are inserted by manufacturing plant.

The gully is not part of the kit.

- Collars 120 x 120 mm, 150 x 150 mm, 350 x 350 mm, 400 x 400 mm (without hole) for sealing pipe penetrations and floor gullies.
- JACKOBOARD Sealing set 2-k for sealing the panel joints, penetrations and sealing details.
- BOARD-FIX adhesive and sealing agent for bonding and sealing of panel joints, penetrations and sealing details
- adhesives for tiles on the basis of cement mortar according EN 12004¹

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 12004:2014-02

Adhesives for tiles - Requirements, evaluation of conformity, classification and designation



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The kit is intended to be used on a substrate and 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. Annex A1 shows the system build-up, annex A2 the performance of the Product and Annexes A3 shows the sealing 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 till 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 combination of watertight board and/or membrane 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 should be used in connection with the following types of gullies:

Stainless steel or plastics - type PE, PP or ABS - with clamping ring and collar

The gullies 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.

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



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3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance	
Release of dangerous substances:		
Component: Tile adhesive (CE-marked)	according to EN 12004	
All other components		
Content, emission and/or release of dangerous substances		
Substances, classified as Carc. 1A/1B ^{a)} Substances, classified as Muta. 1A/1B ^{a)} Substances, classified as Acute Tox. 1, 2, 3; Repr. 1A/1B; STOT SE 1 and STOT RE 1 ^{a)}	None of these raw materials are actively used in the manufacture of the construction product. b)c)	
SVOC und VOC	No performance assessed.	
Release scenarios regarding BWR 3: IA 2		
Vapour permeability	see Annex A2	
Water tightness	see Annex A2	
Crack bridging ability	see Annex A2, category	
Bond strength	see Annex A2, category	
Scratching resistance	see Annex A2	
Joint bridging ability	see Annex A2, category	
Impermeability at sealings	see Annex A2, category	
Dimensional stability	see Annex A2	
Water tightness around penetration	see Annex A2, category	
Resistance to temperature	see Annex A2, category	
Resistance to alkalinity	see Annex A2, category	
Resistance to mechanical wear	see Annex A2	
Cleanability	see Annex A2	
Thickness	see Annex A2, declared value	

^{a)} In accordance with Regulation (EC) No 1272/2008.

3.3 Safety and accessibility (BWR 4)

Essential characteristic	Performance
Slipperiness	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.

^{b)} Active use is the targeted use of substances to achieve specific product properties. Substances that are present as impurities and/or as a secondary component in the product are therefore not to be regarded as "actively used".

c) Assessment based on the detailed manufacturers' statements on dangerous substances.



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

In accordance with EAD No. 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

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

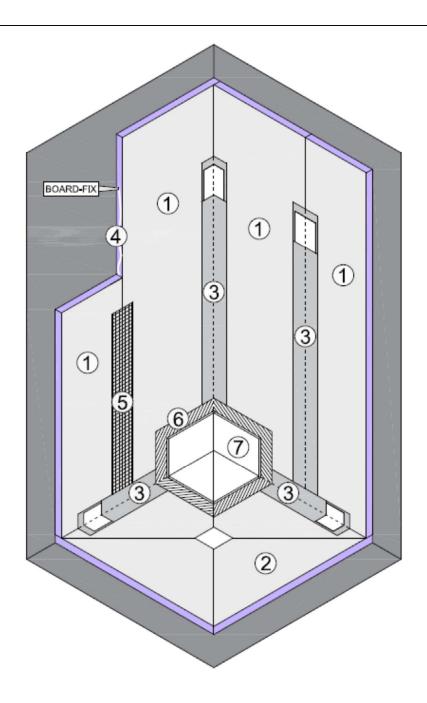
Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 29 November 2023 by Deutsches Institut für Bautechnik

Bettina Hemme beglaubigt:
Head of Section Gnamou

English translation prepared by DIBt





- 1. JACKOBOARD Plano Wall waterproofing Board
- 2. JACKOBOARD Aqua shower element
- 3. JACKOBOARD Sealing tape mineral sealing slurries (JACKOBOARD sealing-set 2-k)
- 4. BOARD-FIX adhesive and sealing, for sealing the butt joints and penetrations
- 5. JACKOBOARD Reinforcing tape (not part of the waterproofing system)
- 6. Tile adhesives
- 7. Wear layer (tiles)

JACKOBOARD waterproofing system Jackon Insulation GmbH	
System build-up	Annex A1

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Thickness of the watertight boards		4 - 80 mm	
Working life		25 years	
Reaction to fire	EN 13501-1	class E	
Statement on dangerous substance		see section 3.2	
water vapour permeability: Water	d = 4 mm	$s_d = 0.43 \text{ m}$	
vapour diffusion equivalent air	d = 40 mm	$s_d = 2,70 \text{ m}$	
layer thickness	d = 80 mm	$s_d = 5.23 \text{ m}$	
water vapour permeability			
Water tightness ¹		watertight	
Crack bridging ability		category 1	
Bond strength	Ardex X 77; MAPEI Keraflex	category 2: ≥ 0.3 ľ	ИРа
	Maxi S1; Saint-Gobain		
	Weber webercol flex; MAPEI		
	Ultralite S1		
	PCI Flexmörtel S1; VPI	category 3: ≥ 0.5 ľ	ИРа
	Colliflex Premium 2 V 410;	5 ,	
	Schönox Q6; Schönox CF		
	Design; Sopro's No. 1 schnell		
	Flexkleber No. 1404;		
	Saint-Gobain Weber		
	weber.xerm 852		
Scratching resistance		no performance ass	essed
Joint bridging ability		category 2: can bridge	e joints
Impermeability at sealings ²		watertight	
Dimensional stability		0.2 %- 0.9 %: dimension stabil	
Water tightness around penetratio	ns ³	category 2: watert	ight
		± 17 % stiffness	category
			2: ≥ 0.3
			MPa
Resistance to mechanical wear		not relevant	
Resistance to alkalinity		category 2: ≥ 0.3 ľ	ИРa
Slipperiness		no performance assessed	
Cleanability		not relevant	

¹ According to section 2.2.4 of EAD 030437-00-0503 and annex E of EAD 030352-00-0503 ² According to annex B and E of EAD 030352-00-0503 ³ According to annex A and E of EAD 030352-00-0503

JACKOBOARD waterproofing system Jackon Insulation GmbH	
Systems classification	Annex A2





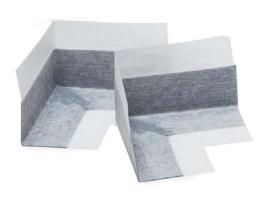
English translation prepared by DIBt



Outgoing corner







JACKOBOARD sealing-set 2-k, comp. A (powder-component)

Sealing tape: JACKOBOARD sealing-set 2-k

JACKOBOARD sealing-set 2-k, comp. B (liquid-component)







Sealing sleeve

Adhesive and sealing agent: BOARD-FIX

Expansion zone sleeve







JACKOBOARD waterproofing system

Jackon Insulation GmbH

Components

Annex A4

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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

JACKOBOARD waterproofing system Jackon Insulation GmbH	
Intended use Specifications	Annex B