

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:

Deutsches Institut für Bautechnik

Trade name of the construction product

JACKOBOARD 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

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

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

¹ EN 12004:2014-02

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

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

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)}	None of these raw materials are actively used in the manufacture of the construction product. ^{b)c)}
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)}	
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.

^{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.

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.

English translation prepared by DIBt

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

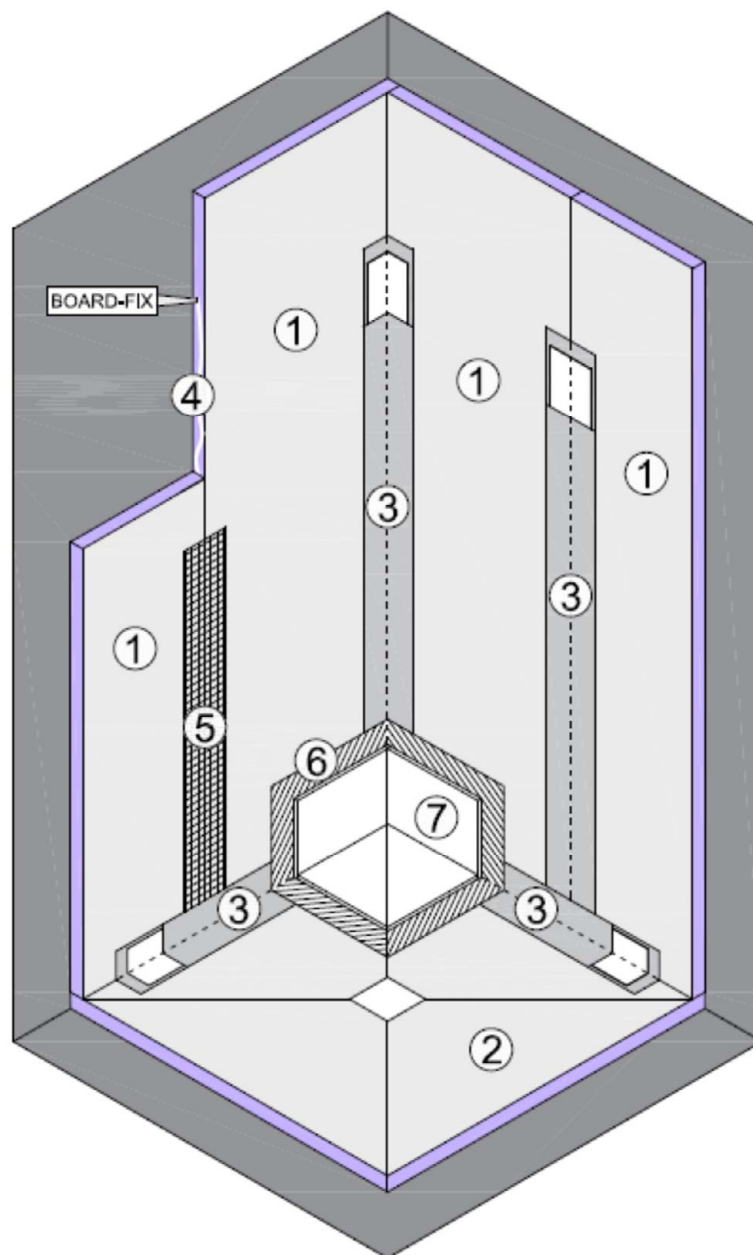
5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

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
Head of Section

beglaubigt:
Gnamou



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

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 vapour diffusion equivalent air layer thickness	d = 4 mm d = 40 mm d = 80 mm	S _d = 0,43 m S _d = 2,70 m S _d = 5,23 m
Water tightness ¹		watertight
Crack bridging ability		category 1
Bond strength	Ardex X 77; MAPEI Keraflex Maxi S1; Saint-Gobain Weber webercol flex; MAPEI Ultralite S1	category 2: ≥ 0.3 MPa
	PCI Flexmörtel S1; VPI Colliflex Premium 2 V 410; Schönox Q6; Schönox CF Design; Sopro's No. 1 schnell Flexkleber No. 1404; Saint-Gobain Weber weber.xerm 852	category 3: ≥ 0.5 MPa
Scratching resistance		no performance assessed
Joint bridging ability		category 2: can bridge joints
Impermeability at sealings ²		watertight
Dimensional stability		0.2 %– 0.9 %: dimension stabil
Water tightness around penetrations ³		category 2: watertight
Resistance to temperature		± 17 % stiffness category 2: ≥ 0.3 MPa
Resistance to mechanical wear		not relevant
Resistance to alkalinity		category 2: ≥ 0.3 MPa
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

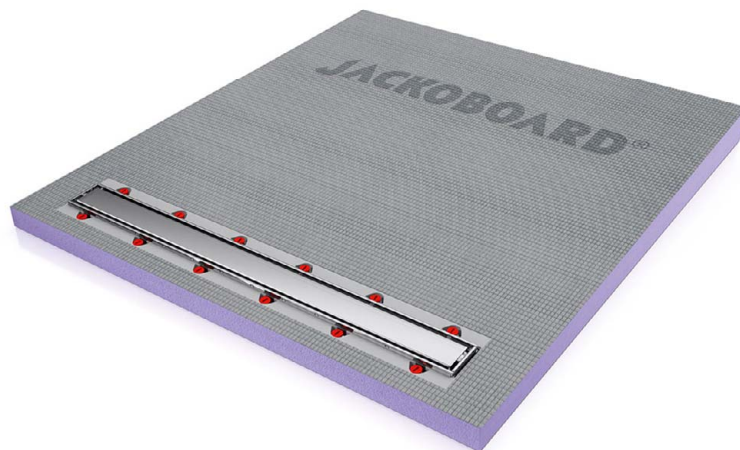
² According to annex B and E of EAD 030352-00-0503

³ According to annex A and E of EAD 030352-00-0503

JACKOBOARD waterproofing system
Jackon Insulation GmbH

Systems classification

Annex A2



JACKOBOARD waterproofing system
Jackon Insulation GmbH

Example of Board

Annex A3

Outgoing corner



Ingoing corner: JACKOBOARD sealing-set 2-k



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
Jackson Insulation GmbH

Components

Annex A4

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 Jackson Insulation GmbH	Annex B
Intended use Specifications	