

## European Technical Assessment

**ETA-23/0365**  
**of 14/11/2023**

### General Part

**Technical Assessment Body issuing the European Technical Assessment**

SINTEF AS by its institute SINTEF Community

**Trade name of the construction product**

**AquaPro Light membrane board**

**Product family to which the construction product belongs**

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

**Manufacturer**

Byggtilbehørs Gruppen  
Karenslyst allé 16  
0278 Oslo  
Norway

**Manufacturing plant(s)**

Byggtilbehørs Gruppen plant 9

**This European Technical Assessment contains**

8 pages including 0 Annex(es) 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 Watertight covering kits based on inherently watertight boards for wet room floors and/or walls

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## **Specific parts**

### **1. Technical description of the product**

#### **General**

The European Technical Assessment (ETA) applies to AquaPro Light membrane board for wet room walls, which consists of a cement based board with a water- and vapour proof foil membrane on one side. AquaPro Light membrane board includes supplementary and associated AquaPro components, such as reinforcements and sealings, adhesives and tile adhesives.

AquaPro Light membrane board shall always be covered with:

- Ceramic tiles, which is adhered to the kit with cement-based tile adhesive described below
- Jotun wet room system which consist of Jotun våtromssparkel, Jotun Grunning/lim for våtrom, Jotun glassfiberrev, Lady Aqua akrylatmaling
- BAC Beton Cire wet room system, which consists of BAC BetonCire Mineralia Micro Base, BAC BetonCire Medium, BAC BetonCire Mineralia Micro Fine

AquaPro Light membrane board is used on walls and can be supplemented with AquaPro membrane foil

AquaPro Light membrane board kit consists of the following components:

#### **Membrane**

AquaPro Light membrane board is a cement based board that consist of a core of extruded polystyrene (EPS), reinforced on both sides with a reinforcement mesh. One side is covered with AquaPro flexibel sheet membrane for water-and vapor resistance. AquaPro membrane foil also has a separate ETA (ETA-23/0364).

AquaPro Light membrane board is customized in varying thicknesses, lengths and widths.

#### **Reinforcement**

AquaPro reinforcements and sealings, prefabricated collars, in joints and around pipe-penetrations. The reinforcements are not intended to cover the entire wall.

-AquaPro Sealing Tape 0,1x25M is a sandwich construction of non-woven textile with a core of elastomer. To be used in connections and joints, between floor- and wall, between boards and transitions, over screws and washers.

-AquaPro Pipe Gasket is a circular gasket made of nitrile rubber. To be used are used around pipe- and drain penetrations

- All AquaPro reinforcements and sealings comes in various sizes and are installed and embedded with AquaPro FoilSeal MS 1.0, AquaPro FoilTack Adhesive 2.0 and Aquapro Foil Adhesive 2.1.

## **Adhesives**

Adhesives for reinforcement and sealing covered by this ETA is:

- AquaPro FoilSeal MS 1.0
- AquaPro FoilTack Adhesive 2.0
- Aquapro Foil Adhesive 2.1.

Adhesives for ceramic tiles covered by this ETA is:

- Aquapro Tile Adhesive 3.1
- Aquapro Tile Adhesive 3.2
- Aquapro Tile Adhesive 3.3
- Aquapro Tile Adhesive 3.4
- Aquapro Tile Adhesive 3.5

## **2. Specification of the intended use(s) in accordance with the applicable European Assessment Document (hereinafter EAD)**

The intended use of the covering kit is:

Watertight membrane board with a wearing surface, on structures with joists (c/c 300 mm), substrates of wood based panels and boards, gypsum boards, fibre cement boards, cement bonded boards suitable for wet rooms and concrete, i.e. moisture sensitive substrates, which are flexible and with jointing and susceptible to cracking.

Indoor applications on wall in bathrooms and washrooms in houses, hotels, or rooms with equivalent conditions. The membrane can be used on concrete substrate and building boards suitable for wet rooms. The membrane shall always be covered with tiles or other types of floor-/wall coverings. The kit is applied in within 5 °C to 40 °C, in the following uses:

- Wall surfaces with only occasional direct exposure to water, e.g., at a good distance from shower or bathtub.
- Walls in shower areas or around bathtubs used for a few showers daily, e.g., in ordinary dwellings, multi-family houses and hotels.
- 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 covering kit is to be installed according to the manufacturer's installation manual.

The provisions made in this European Technical Assessment are based on an assumed intended working life of 25 years, provided that they are subject to appropriate installation, use and maintenance.

The indications given on the working life cannot be interpreted as a guarantee given by the producer or Assessment Body 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**

Characteristic		Test method	Assessment of characteristic
Safety in case of fire (BWR 2)			
2.2.1	Reaction to fire	EN 13501-1	C-s1,d0  AquaPro Light membrane board, with BAC Beton Cire wet room system on the surface
		EN 13501-1	D-s2,d0  AquaPro Light membrane board, with Jotun wet room system on the surface
Hygiene, health and the environment (BWR 3)			
2.2.2	Content, emission and/or release of dangerous substances	EN 16516 + declaration from the manufacturer	No dangerous substances*) or emissions  AquaPro Membrane Foil after 28 days: TVOC: <10 µg/m³ Formaldehyde: <5 µg/m³ Volatile of carcinogenic: <1 µg/m³ No substances detected.  EPS plate after 28 days: TVOC: 93 µg/m³ Formaldehyde: <5 µg/m³ Volatile of carcinogenic: <1 µg/m³  REACH: Declaration from the manufacturer
2.2.3	Vapour permeability	EN ISO 12572, 93-50 % RH	Z <sub>v</sub> : 2 688 000 s/m  S <sub>d</sub> : 73,8 m  Thickness of sample: 0,41 mm AquaPro membrane foil
		EN ISO 12572, 100-75 % RH	Z <sub>v</sub> = 3 500 000 s/m  S <sub>d</sub> = 94m  Thickness of sample: 0,38 mm AquaPro membrane foil
2.2.4	Water tightness	EN 14891, 1,5 bar for 7 days	Watertight
2.2.5	Crack bridging ability	Not relevant	
2.2.6	Bond strength	EN 14891, A.6.2.	Assessment category 3: Bond strength ≥ 0.5 MPa  AquaPro membrane foil + Aquapro Foil Adhesive 2.1 Aquapro Tile Adhesive 3.1 Aquapro Tile Adhesive 3.2 Aquapro Tile Adhesive 3.3
		EN 14891, A.6.2.	Assessment category 3:  Bond strength ≥ 0.5 MPa  AquaPro membrane foil, AquaPro FoilTack Adhesive 2.0 Aquapro Tile Adhesive 3.4 Aquapro Tile Adhesive 3.5
2.2.7	Scratching resistance	EAD-030352-00-0503 Annex C followed by Annex F	Passed  AquaPro Light membrane board with Jotun wet room paint system

		EAD-030352-00-0503 Annex C followed by Annex F	Passed  AquaPro Light membrane board with BAC Beton Cire Mikro cement
2.2.8	Joint bridging ability	EAD-030352-00-0503 Annex B	Watertight, 2 mm  AquaPro membrane foil, AquaPro FoilTack Adhesive 2.0, AquaPro Sealing tape 0,1x25M
		EAD-030352-00-0503 Annex B	Watertight, 2 mm  AquaPro membrane foil, EcoPrim T and Aquapro Foil Adhesive 2.1, AquaPro Sealing tape 0,1x25M
		EAD-030352-00-0503 Annex B	Watertight, 2 mm  AquaPro Light membrane board, ardex 8+9, ardex SK12
2.2.9	Impermeability at sealing	See chapter 2.2.8	
2.2.10	Dimensional stability	No Performance assessed	
2.2.11	Water tightness around penetrations	EAD-030352-00-0503, Annex A	Watertight  AquaPro membrane foil, Aquapro Foil Adhesive 2.1 and AquaPro reinforcements  7 days hardening time
		EAD-030352-00-0503, Annex A	Watertight  AquaPro membrane foil, AquaPro Basic Foiltack Adhesive 2.0, and AquaPro reinforcements  7 days hardening time
		EAD-030352-00-0503, Annex F	Watertight  AquaPro membrane foil, AquaPro Basic adhesive and AquaPro reinforcements  7 days hardening time
		EAD-030352-00-0503, Annex F	Watertight  AquaPro membrane foil, AquaPro Basic Foiltack Adhesive 2.0, and AquaPro reinforcements  7 days hardening time
		EAD-030352-00-0503, Annex E	Watertight  AquaPro Light membrane board  Ardex 8+9  7 days hardening time
		EAD-030352-00-0503, Annex F	AquaPro membrane foil, Aquapro Foil Adhesive 2.1, AquaPro FoilSeal MS 1.0 for sealing of AquaPro reinforcements  7 days hardening time
2.2.12	Resistance to temperature	No performance assessed	
2.2.13	Resistance to mechanical wear	Not relevant	

2.2.14	Resistance to alkalinity	EN 1847 + EN 14891, A.6.2.	Assessment category 1 >0,2 N/mm <sup>2</sup>  AquaPro Light membrane board Aquapro Tile Adhesive 3.2
<b>Safety in used (BWR 4)</b>			
2.2.15	Slipperiness	Not relevant	
2.2.16	Cleanability	Not relevant	
2.2.17	Thickness	No performance assessed	

\*) In addition to the specific clauses relating to dangerous substances contained in this European technical Assessment, there may be other requirements applicable to the products falling within its scope (e.g., transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Regulation, these requirements need also to be complied with, when and where they apply.

### 3.1 Methods of verification

The characteristic values of the watertight covering kit are based on the EAD 030436-00-0503. The European Technical Assessment is issued for the product based on agreed data/information, deposited with SINTEF, which identifies the product that has been assessed and judged. Changes to the product or production process, which could result in this deposited data/information being incorrect, should be notified to SINTEF before the changes are introduced. SINTEF will decide if such changes affect the ETA and consequently the validity of the CE marking based on the ETA and if so whether further assessment or alterations to the ETA, shall be necessary.

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

AVCP system According to the decision 2003/655/EC of the European Commission, as amended, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) is 2+.

#### 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 at SINTEF AS.

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By

SINTEF AS by its institute SINTEF Community

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