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European Technical Assessment

ETA 22/0618
of 03/20/2023

General Part

Technical Assessment Body issuing the European Technical Assessment:

RISE Research Institutes of Sweden AB

Trade name of the construction product

Smartpanel Wetwall

Product family to which the construction product belongs.

Watertight covering kits for wet room walls and floors

Manufacturer

Smartpanel AS, Habornveien 50, NO-1630 Gamle Fredrikstad, Norway

Manufacturing plant(s)

Samertpanel AS, Manufacturing plant

This European Technical Assessment contains

7 pages

This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, based on

European Assessment Document (EAD) 030437-00-0503
Watertight coverings 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 the construction kit Smartpanel Wetwall is a waterproof wall cladding system, based on core materials made of wood fiber board and high-pressure laminate with thickness of 0,8 mm on the front. On the back there is a lock laminate

Smartpanel Wetwall is a watertight coverings kits based on inherently watertight boards for wet room walls, for use indoors.

Standard dimensions are 2390 mm length and 620 mm width. Panel thickness is 11 mm. The density is 850 kg/m³.

The kit is constructed as follows:

The panels have self-locking splicing systems on the long sides. The panels are mounted on joists or existing substrates such as concrete, wood panel building slabs. Assembly is done by screwing the panel on joist or substate. The panels can also be used on inside of exterior walls. All joints are sealed with Smartpanel Wetwall SEAL. End surfaces must also be sealed with Smartpanel Wetwall SEAL. Pipe penetrations and other penetrations are sealed with Smartpanel Wetwall SEAL.

The kit consists of the following components:

- Waterproof wall panels, Smartpanel Wetwall
- Sealant, Smartpanel Wetwall SEAL
- Socket list
- Corner list
- Screws
- Smartpanel Wetwall CLEAN
- Smartpanel Wetwall Joint block
- Smartpanel Wetwall WIPES

Manufacturing

The manufacturer may only use materials stated in the Manufacturers Technical Dossier (MTD).

The European Technical Assessment is issued for the product based on agreed data/information, deposited with RISE Research Institutes of Sweden AB 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 RISE Research Institutes of Sweden AB before the changes are introduced. RISE Research Institutes of Sweden AB will decide whether 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.

Design and dimensioning

The fitness for the respective use of the watertight membrane results from the characteristic values and categories.

The supplementing statements of the manufacturer stated in the MTD for design and application of the watertight system for creating a watertight covering under wearing surface for walls in indoor wet areas shall be considered.

Installation

The fitness for use of the watertight membrane can be assumed only, if the installation is carried out according to the installation instructions stated in the MTD by the manufacturer.

Indications to the manufacturer

Packaging, transport, and storage

Information on packaging, transport and storage are given in the MTD.

Use, maintenance, repair

Information on packaging, transport and storage are given in the MTD.

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

The kit is used as watertight covering for wet room walls. The panels are mounted on joists or existing substrates such as concrete, wood panel building slabs.

The panels are to be used in indoor applications, where the kit is not exposed to temperatures (i.e., temperature of structure) below 5 °C and above 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 provisions made in this European Technical Assessment are based on an assumed working life of the Smartpanel Wetwall of 25 years, if 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 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 Essential characteristics and their performance

		Characteristics	Performance
BWR 1	Mechanical resistance and stability		Not relevant
BWR 2	Safety in case of fire	2.2.1 Reaction to fire	Class D-s1, d0 according to EN 130501-1
BWR 3	Hygiene, health, and the environment	2.2.2 Release of dangerous substances	TVOC: 0,011 mg/m ³ Carcinogens <0,001 mg/m ³ Formaldehyde: 0,030 mg/m ³ Ammonia: <0,004 mg/ m ³
		2.2.3 Water vapour permeability (EN ISO 12572, 93→50 % RH)	S _d -value 20 m
		2.2.4 Water tightness (150 kPa/7 Days)	Watertight
		2.2.5 Crack bridging ability	No performance assessed
		2.2.6 Bond strength	Not relevant
		2.2.7 Scratching resistance Annex C of EAD-030352-00-0503	Passed
		2.2.8 Joint bridging ability Annex B EAD-030352-00-0503	Not relevant
		2.2.9 Impermeability at sealings Annex B EAD-030352-00-0503	Passed
		2.2.10 Dimensional stability	Change in length: 65-85 %RH: 0,10 % 65-30 %RH: -0,17 % Thickness change: 65-85 %RH: 2,6 % 65-30 %RH: -2,1
		2.2.11 Water tightness around penetrations Annex E of EAD-030352-00-0503	Watertight
		2.2.11 Resistance to water Tested in Annex E of EAD-030352-00-0503	Passed
		2.2.12 Resistance to temperature	Bending strength change after 14 days at 70°C Longitudinal direction, frontside: Change 5.3% Transverse direction, frontside: Change 7.4% Longitudinal direction, reverse side Change -4,1 % Transverse direction, reverse side: Change 5,7 % Stiffness (E-module) change after 14 days at 70°C Longitudinal direction, frontside: Change 2.2% Transverse direction, frontside: Change 2.9% Longitudinal direction, reverse side: Change 0.4% Transverse direction, reverse side: Change 0.0%
		2.2.13 Resistance to mechanical wear	Not relevant
		2.2.14 Resistance to alkalinity	Not relevant
2.2.15	Not relevant		

		Characteristics	Performance
		Slipperiness	
		2.2.16 Cleanability	Cleaning degree 7
		2.2.17 Thickness	Mean value: 10,90 mm
BWR 4	Safety in use		Not relevant
BWR 5	Protection against noise		Not relevant
BWR 6	Energy economy and heat retention		Not relevant
BWR 7	Sustainable use of natural resources		Not relevant

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

According to the decision 2003/655/EC - Commission decision of date 12 September 2003, published in the Official Journal of the European Union (OJEU) L231/12 of 17/09/2003, of the European Commission the system(s) of assessment and verification of constancy of performance (see Annex V to the regulation (EU) No 305/2011) given in the following table apply:

Product(s)	Intended use(s)	Level(s) or class(es)	System(s)
Watertight covering kits for wet room floors and walls	For building works	-	2+

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

5.1 Factory production control

The manufacturer shall exercise permanent internal control of production. All the elements, requirements and provisions adopted by the manufacturer shall be documented in a systematic manner in the form of written policies and procedures, including records of results performed. This production control system shall insure that the product is in conformity with this European Technical Assessment.

The manufacturer may only use constituent materials stated in the technical documentation of this European Technical Assessment.

The factory production control shall be in accordance with the Control plan which is part of the technical documentation of this European Technical Assessment. The control plan is laid down in the context of the factory production control system operated by the manufacturer and deposited within RISE Research Institutes of Sweden AB.

5.2 Other tasks for the manufacturer

The manufacturer shall, on the basis of a contract, involve a body which is approved for the tasks referred to in section 3.1 in order to undertake the actions laid down in section 4.3. For this purpose, the control plan referred to in sections 4.2.1.1 and 4.2.2 shall be handed over by the manufacturer to the approved body or bodies involved.

The manufacturer shall make a declaration of conformity, stating that the construction product is in conformity with the provisions of this European Technical Assessment.

5.3 Tasks for the approved bodies

The approved body (bodies) shall perform the

- initial type testing of the product,
- initial inspection of factory and of factory production control,
- continuous surveillance, assessment and approval of factory production control,

in accordance with the provisions laid down in the control plan.

The approved body shall retain the essential points of its actions referred to above and state the results obtained and conclusions drawn in a written report.

The approved certification body involved by the manufacturer shall issue an EC certificate of conformity of the product stating the conformity with the provisions of this European Technical Assessment.

In cases where the provisions of the European Technical Assessment and its "control plan" are no longer fulfilled the certification body shall withdraw the certificate of conformity and inform RISE Research Institutes of Sweden AB without delay.

Issued in Borås on 03.20.2023
By RISE Research Institutes of Sweden AB



Martin Tillander
Director, Product certification