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Authorised and notified according
to Article 29 of the Regulation (EU)
No 305/2011 of the European
Parliament and of the Council of 9
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MEMBER OF EOTA



European Technical Assessment ETA-18/0223 of 09/05/2018

General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S

Trade name of the
construction product:

Protega Wood S

Product family to which the
above construction product
belongs:

Fire retardant products

Manufacturer:

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Manufacturing plant:

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This European Technical
Assessment contains:

5 pages

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

ETAG 028 Fire retardant products, version June 2012,
used as European Assessment Document (EAD)

This version replaces:

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II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

are to be regarded only as a means for choosing the right product in relation to the expected economically reasonable working life of the works.

1 Technical description of product and intended use

Technical description of the product

Protega Wood S is a water based intumescent coating designed to reduce the ignitability of timber based boards, applied by brush, roller or spray gun directly on the substrate.

The Protega Wood S system can be top coated with Topcoat-W.

Protega Wood S is applied homogeneously distributed over the substrate surface with the following amounts:

Paint system consisting of paint "Protega Wood-S", nominal amount 300 g/m² (wet weight).

Paint system consisting of "Protega Wood-S", nominal amount 400 g/m² (wet weight), covered with top coat "Topcoat-W", nominal amount 100 g/m², (wet weight).

Substrates must be dry and free from grease, dirt, dust, and other contaminants. Existing coatings must completely be removed.

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

Protega Wood S is used as fire retardant product to enhance the reaction to fire performance of a timber substrate surface of a construction product, excluding floorings.

Protega Wood S can be applied to any wood based substrate at least 8 mm thick and any end use substrate of Euroclasses A1 or A2-s1,d0 at least 9 mm thick, having a density $\geq 338 \text{ kg/m}^3$

The wood based substrate can be installed with a ventilated or a non-ventilated air gap behind, as well as without air gap.

Regarding the environmental conditions, Protega Wood S is intended for use category Type Z2, defined as internal conditions with humidity lower than 85% R.H., excluding temperatures below 0°C, in accordance with ETAG 028, section 1.2.

The verification and assessment methods on which this European Technical Assessment is based, lead to the assumption of a working life for the Protega Wood S of at least 10 years.

The indications given on the working life cannot be interpreted as a guarantee given by the manufacturer, but

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

| Characteristic | Assessment of characteristic |
|---|---|
| 3.2 Safety in case of fire (BWR 2) | |
| Reaction to fire | <p>The Protega Wood S is classified as Euroclass B-s1,d0 in accordance with EN 13501-1.</p> <p>The classification is valid for the following product parameters:</p> <ul style="list-style-type: none"> – Paint system consisting of “Protega Wood-S”: <ul style="list-style-type: none"> ○ Nominal area weight Protega Wood-S: 300 g/m² (wet weight). – Paint system consisting of “Protega Wood-S”, covered with top coat “Topcoat-W”: <ul style="list-style-type: none"> ○ Nominal area weight Protega Wood-S: 400 g/m² (wet weight). ○ Nominal area weight Topcoat-W: 100 g/m² (wet weight). <p>Protega Wood S can be applied to any wood based substrate at least 8 mm thick and any end use substrate of Euroclasses A1 or A2-s1,d0 at least 9 mm thick, having a density $\geq 338 \text{ kg/m}^3$</p> |
| 3.3 Hygiene, health and the environment (BWR 3) | |
| Influence on air quality | <p>The product does not contain/release dangerous substances specified in TR 034, dated March 2012.</p> |
| 3.7 Sustainable use of natural resources (BWR 7) | No Performance Determined |
| 3.8 Durability | <p>The verification was made in accordance with 2.4.3 and Annex B of ETAG 028. Durability of the reaction to fire performance was assessed for Paint system consisting of “Protega Wood-S”, covered with top coat “Topcoat-W”, by subjecting test specimens to fire tests in accordance with ISO 5660-1, then further specimens were subjected to ageing procedures then fire tested again to ISO 5660-1.</p> <p>The provisions for class B products is fulfilled: $RHR_{30s \text{ ave}} \leq 150 \text{ kW/m}^2$ during 600s after ignition and THR_{600s} increase $< 20 \%$ compared to testing before the exposure</p> |

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.

3.9 General aspects

The verification of durability is part of testing the essential characteristics. The intumescent construction product Protega Wood S may be used in end-use applications according to the provisions for use category Type Z2, defined as internal conditions with humidity lower than 85% R.H., excluding temperatures below 0°C, in accordance with ETAG 028, section 1.2., without expecting significant changes of the characteristics relevant for fire sealing and fire stopping properties and the result performance.

4 Assessment and verification of constancy of performance (AVCP)

4.1 AVCP system

According to the decision 1999/454/EC of the European Commission, as amended by 2001/596/EC, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) is 1.

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

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark prior to CE marking

Issued in Copenhagen on 2018-05-09 by



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