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European Technical Assessment

**ETA-20/1123
of 30/12/2020**

General Part

Technical Assessment Body issuing the European Technical Assessment

Instytut Techniki Budowlanej

Trade name of the construction product

Protega Steel 1001

Product family to which the construction product belongs

Fire protective products

Manufacturer

Protega AB
Verkstadsgatan 6B
231 66 Trelleborg
Sweden

Manufacturing plant

Protega AB
Verkstadsgatan 6B
231 66 Trelleborg
Sweden

This European Technical Assessment contains

27 pages including 1 Annex which forms an integral part of this Assessment

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

European Assessment Document (EAD)
EAD 350402-00-1106 "Reactive coatings for fire protection of steel elements"

This European Technical Assessment is issued by the Technical Assessment Body in its official language. Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and shall be identified as such.

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Specific Part

1 Technical description of the product

PROTEGA STEEL 1001 is a spray applied intumescent paint. The intumescent paint systems work with primer, and with or without topcoat where appropriate to suit the environmental conditions.

In accordance with EAD 350402-00-1106, PROTEGA STEEL 1001 may be considered as a reactive coating kit that includes one or more primers and/or topcoats (Option 3).

PROTEGA STEEL 1001 has been assessed as being compatible with the primer and topcoat as specified below:

Name	Primer type	Tested Nominal Primer DFT ¹⁾ , mm	Permitted Primer Thickness Range ²⁾ , mm	
			minimum	maximum
NOVAGRUND 40	Alkyd ³⁾	0.040	0.020	0.060
¹⁾ DFT: Dry Film Thickness				
²⁾ The permitted minimum and maximum DFT cannot be less or exceed the DFT recommended by the manufacturer. Information given by the manufacturer must be followed.				
³⁾ Applicable to other primers from the same generic group provided the thickness is within the tolerance given. The assessment does not cover galvanised steel.				

Name	Topcoat type	Tested Nominal Topcoat DFT ¹⁾ , mm	Permitted Topcoat Thickness Range ²⁾ , mm	
			minimum	maximum
Protega TopCoat W ³⁾	Waterborne topcoat	0.040	0.040	0.060
¹⁾ DFT: Dry Film Thickness				
²⁾ The permitted minimum and maximum DFT cannot be less or exceed the DFT recommended by the manufacturer. Information given by the manufacturer must be followed.				
³⁾ The assessment is limited to the specific product.				

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

2.1 Intended use

The intended use of PROTEGA STEEL 1001 is to fire protect I/H-section beams and columns, circular hollow columns, rectangular/square hollow columns and beams, and steel temperatures in the range of 350°C to 750°C. The precise scope is given in Annex A which show the total dry film thickness of PROTEGA STEEL 1001 (excluding primer and topcoat) required to provide classifications of R15 to R90 for I/H beams and columns, and R15 to R60 for circular hollow columns, rectangular/square hollow columns and beams.

A reactive coating kit PROTEGA STEEL 1001 has ability to fire protect structural steel rectangular/square hollow beam sections up to 75 minutes. Therefore, tables which show the total dry film thickness for additional fire resistance periods also form part of this ETA.

The provisions made in this European Technical Assessment are based on an assumed working life of 10 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer or the Technical 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.

2.2 Use category

Type Z₂: intended for use in internal conditions with humidity lower than 85% excluding temperatures below 0°C.

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

3.1 Performance of the product

3.1.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	Class E (with the NOVAGRUND 40 primer, with and without ProtegaTopCoat W grey)
Resistance to fire	I/H Beams and Columns: (R15 – R90) Hollow Sections*: (R15 – R60) (exact scope Annex A)
* A reactive coating kit PROTEGA STEEL 1001 has ability to fire protect structural steel rectangular/square hollow beam sections up to 75 minutes. Therefore, tables which show the total dry film thickness for additional fire resistance periods also form part of this ETA	

3.1.2 Hygiene, health and the environment (BWR 3)

No performance assessed.

3.1.3 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Adhesion	Pass
Durability	Use category: Type Z ₂

3.2 Methods used for the assessment

The assessment of the products has been made in accordance with the EAD 350402-00-1106 "Reactive coatings for fire protection of steel elements".

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

According to Decision 99/454/EC of the European Commission, as amended by Decision 2001/596/EC of the European Commission the system 1 of assessment and verification of constancy of performance applies (see Annex V to Regulation (EU) No 305/2011).

5 Technical details necessary for the implementation of the AVCP system, as provided in the applicable European Assessment Document (EAD)

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited in Instytut Techniki Budowlanej.

For type testing the results of the tests performed as part of the assessment for the European Technical Assessment shall be used unless there are changes in the production line or plant. In such cases the necessary type testing has to be agreed between Instytut Techniki Budowlanej and the notified body.

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