

Akzo Nobel Industrial Coatings AB
205 17 MALMÖ**CLASSIFICATION OF FIRE RESISTANCE IN
ACCORDANCE WITH EN 13501-2:2016**

(1 appendix)

**Sponsor / owner of the
report:**Akzo Nobel Industrial Coatings AB
205 17 MALMÖ
SWEDEN**Prepared by:**RISE - Research Institutes of Sweden
Box 857
SE-501 15 Borås
SWEDEN**Product name:**

SIKKENS FR Cladding

Classification report No.:

8P01482-2Rev1

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Note:

This report is a revision and replaces the previous report 8P01482-2 dated February 28, 2018. This revision refers to: Product designation, editorial changes, correction of misspelling and reference to test report.

This classification report consists of five pages and one appendix and may only be used or reproduced in its entirety.

RISE Research Institutes of Sweden AB

Postal address

Box 857

SE-501 15 BORÅS

Sweden

Office location

Brinellgatan 4

SE-504 62 BORÅS

Phone / Fax / E-mail

+46 10 516 50 00

+46 33 13 55 02

info@ri.se

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1 Introduction

This classification report defines the resistance to fire classification assigned to element SIKKENS FR Cladding in accordance with the procedures given in EN 13501-2:2016.

2 Details of classified product

2.1 General

The element, SIKKENS FR Cladding, is defined as a covering.

2.2 Description

The element, SIKKENS FR Cladding, is fully described below or is fully described in the test report(s) and/or the extended application report(s) in support of classification listed in 3.1.

The construction consisted of one covering made of a double rebated spruce panelling mounted on laths.

Framework

A framework of untreated soft wood with nominal cross section 45 x 32 mm with the centre distance 600 mm is mounted on the supporting construction. The laths are screwed to the supporting construction with maximum centre distance 1200 mm. The battens is creating a gap between the supporting construction and the cladding of minimum 32 mm.

Cladding

A wainscoting made of fire painted spruce wood is mounted on the framework. The nominal thickness of the panelling is 19 mm. The panelling is equipped with tough at the longitude direction only.

The wainscoting is painted with a primer designated Rubbol WP 112 FR and a topcoat designated Rubbol WF 33xx. Nominal amount of primer is 250 g/m² and nominal amount of topcoat is 150 g/m².

Joints

The wainscoting is fitted with joints (short end to short end). The joints are placed over laths only.

Details

The wainscoting is attached to the framework with nails of steel. The nails are attached to the framework with maximum distance 600 mm. There are two nails at each position.

Information about the major components of the element is tabulated below:

Table: Included components.

Component	Product designation	Manufacturer / Supplier
Laths	45 x 32 mm	-
Wainscoting	Double rebated spruce panelling 19 x 145 mm	-
Primer	Rubbol WP 112 FR	AkzoNobel
Topcoat	Rubbol WF 33xx	AkzoNobel
Nails	2,8 x 65 mm Fe/Zn 40	-

The information regarding the element and its detailed components given in the sponsor's drawings and specifications, e.g. dimensions, quantities and physical properties, are nominal values provided by the sponsor. In case of the sponsor's drawings not corresponds with the construction of the element RISE has crossed details or altered the drawings.

3 Test reports/extended application reports and test results in support of the classification

3.1 Test reports/extended application reports

Table: List of used accredited reports.

Name of laboratory	Name sponsor / owner of the report:	Report ref. no	Test method and date/field of extended application rules and dates
RISE - Research Institutes of Sweden	Akzo Nobel Industrial Coatings AB 205 17 MALMÖ SWEDEN	8P01482-1Rev1	EN 14135:2005

3.2 Results

Table: Summary test results.

Accredited test method:	EN 14135:2005
Test report and date:	8P01482-1Rev1 March 8, 2018
Parameter:	Results:
Substrate:	Chipboard 675kg/m ³
Collapse of the covering or parts of it:	None
Thermal insulation:	
- average temperature [°C]:	93
- maximum temperature rise [°C]:	96
Burnt material, charred material, melted material or shrunk material at any point of the substrate and at any point of the unexposed side of the covering:	None

4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with Clause 7 of EN 13501-2:2016.

4.2 Classification

The element, SIKKENS FR Cladding is classified according to the following combinations of performance parameters and classes as appropriate.

Table: Classification

Fire resistance classification: K₂ 10

4.3 Field of application

This classification is valid for the following end use applications:

4.3.1 Field of direct application in accordance with EN 14135:2005

Table: Field of direct application of test results

Construction parameter	Valid for range
Substrate: §10.1	The element can be used on all substrates for a covering designated K ₂ 10
Fixings: §10.4	The element can be used with the same fixing method but a closer spacing between the fixings than the test specimen.
Cavity: §10.5	The element can be used for a covering with an air gap greater than the height tested.
Orientation of the covering: §10.6	The element can be used for horizontal, vertical and sloped applications.

5 Limitations

This classification document does not represent type approval or certification of the product.

RISE Research Institutes of Sweden AB Safety - Fire Research, Fire Resistance

Performed by

Examined by

Pär Johansson

Patrik Johansson

Appendix

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Appendix 1

