



# CLASSIFICATION REPORT

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## CLASSIFICATION OF FIRE RESISTANCE IN ACCORDANCE WITH EN 13501-2:2007+A1:2009 (E)

**Sponsor:**

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Norway

**Prepared by:**

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**Product name:**

Teknos FR Facade.

**Classification report No:** PX05884-02A

**Date of issue:**

December 30, 2010

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

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**1 Introduction**

This classification report defines the resistance to fire classification assigned to element “Teknos FR Facade” in accordance with the procedures given in EN 13501-2:2007+A1:2009 (E).

**2 Details of classified product**

**2.1 General**

The element “Teknos FR Facade” is defined as Spruce boards treated with flame retardant liquid.

**2.2 Description**

The test specimen consists of tongue and groove spruce boarding. The nominal dimensions of the boards are (width x thickness) 148 x 19 mm. The boards are treated with flame retardant liquid primer designated Teknosafe 2407 to an average charge retention of 350 g/m<sup>2</sup> and Waterborne acrylic industrial system final painting to an average charge retention of 150 g/m<sup>2</sup>. The boarding is fixed to the substrate with nails. The dimensions of the nails are 2,8 x75 mm and the centre distance of the nails is approximately 600 mm.

Included components:

<i>Component</i>	<i>Designation</i>	<i>Manufacturer</i>
Spruce boards with nominal dimensions (width x thickness) 148x19 mm	Teknos FR Facade	Teknos Norge AS
Flame retardant primer	Teknosafe 2407	Teknos Norge AS
Flame retardant final paint	Waterborne acrylic industrial system	Teknos Norge AS
Nails	Hot dip galvanized 2,8x75 mm	Gryts Bruk AS

A detailed description of the construction and components of the element “Teknos FR Facade” is also described in appendix 1.

**3 Test reports and test results in support of the classification**

**3.1 Test reports**

<i>Name of laboratory</i>	<i>Name of sponsor</i>	<i>Test and date</i>	<i>Accredited test method</i>
SP Technical Research Institute of Sweden	Teknos Norge A/S Industriveien 28 N-3430 RÖYKEN Norway	PX05884-02, dated December 20 , 2010	EN 14135:2004

**3.2 Test result**

<b>Test method:</b>	EN 14135:2004
<b>Test and date:</b>	PX05884-02, dated December 20, 2010
<b>Parameter:</b>	<b>Result:</b>
<b>Collapse of the covering or parts of it:</b>	None
<b>Thermal insulation:</b>	
- average temperature	69
- maximum temperature	82
<b>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:</b>	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 13501-2:2007+A1:2009 (E).

### 4.2 Classification

**Fire resistance classification: K<sub>1</sub> 10**

**Fire resistance classification: K<sub>2</sub> 10**

### 4.3 Field of application

This classification is valid for the following end use applications:

#### Substrate:

- The element can be used on substrates having a density of at least 300 kg/m<sup>3</sup> for a covering designated K<sub>1</sub> 10
- The element can be used on all substrates for a covering designated K<sub>2</sub> 10
- The element can be used with the same fixing method but a closer spacing between the fixings than the test specimen.

#### Orientation of the covering:

- 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.

**SP Technical Research Institute of Sweden**  
**Fire Technology - Fire Resistance**

A blue ink signature, likely of Lars Boström, consisting of a stylized 'L' and 'B' followed by a long horizontal stroke.

Lars Boström  
Technical Manager/Officer

**Appendices:** 1 (one side)

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	SIGN: OZ

Fasadprov enligt SP Fire 105 klass K110, K210

Systemets navn for brannhemmet malt kledning er: Teknos FR Facade.

Systemet består av: Gran kledning i dimensjon – tykkelse 19 mm og bredde 148 mm – type dobbelfals. Se bilde nedenfor.

Grunning av type Teknosafe 2407 – påført mengde 350 g/m<sup>2</sup>. Farge hvit

Mellomstrøk av type: Waterborne acrylic industrial system – påført mengde 150 g/m<sup>2</sup>. Farge hvit.

Dobbelfals er egentlig beregnet på fasader og ikke i tak, så derfor må antagelig ekstra spiker eller skruer benyttes under montering. Ekstra spiker er inntegnet med rødt på tegning nedenfor.

Kledningen ligger ferdig malt med brannhemmende maling hos Moelven Langmoen AS, Brumunddal, Norge. Bordene har ulike lengder.

