

## **CLASSIFICATION OF WALL AND CEILING COVERINGS FOR FIRE PROTECTION ABILITY FIRES-CR-094-12-AUPE**

**Covering made of boards CETRIS, 10 mm thick**



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# CLASSIFICATION OF WALL AND CEILING COVERINGS FOR FIRE PROTECTION ABILITY IN ACCORDANCE WITH EN 13501-2 + A1: 2009 with direct field of application

## FIRES-CR-094-12-AUPE

**Name of the product:** Covering made of boards CETRIS, 10 mm thick

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## 1. INTRODUCTION

This classification report defines the classification of wall and ceiling coverings for a fire protection ability assigned to element Covering made of boards CETRIS, 10 mm thick in accordance with the procedures given in EN 13501-2 + A1: 2009.

## 2. DETAILS OF CLASSIFIED PRODUCT

### 2.1 GENERAL

The element, Covering made of boards CETRIS, 10 mm thick, is defined as a wall and ceiling covering for a fire protection ability.

### 2.2 PRODUCT DESCRIPTION

The boards of CETRIS 10 mm, with bulk density  $1350 \pm 80 \text{ kg.m}^{-3}$  are used as a fire protection covering of vertical or horizontal building elements. Boards of CETRIS 10 mm thick may be fixed to the building element through the distance profiles (battens) (10 x 75) mm (cavity 10 mm) or they can be fixed direct to the building element. The individual boards are jointed together with butt-joint.

The covering is fixed to the building elements by steel screws  $\varnothing 4,2 \text{ mm} \times 35 \text{ mm}$ , placed in spacing 200 mm. Distance battens are fixed to the building element by the steel screws  $\varnothing 4 \text{ mm} \times 30 \text{ mm}$ , placed in spacing 190 mm.

More detailed information about product construction is shown in drawings.

## 3. TEST REPORTS IN SUPPORT OF CLASSIFICATION

### 3.1 TEST REPORTS

| No. | Name of laboratory              | Name of sponsor  | Test report No.           | Date of the test | Test method          |
|-----|---------------------------------|--|---------------------------|------------------|----------------------|
| [1] | FIRES, s.r.o.,<br>Batizovce, SR | CIDEM Hranice, a.s.,<br>Hranice I –Město,<br>Česká republika | FIRES-FR-<br>120/04 C (E) | 12. 10.<br>2004  | EN<br>14135:<br>2004 |

[1] Test specimens were conditioned according to EN 1363-1 before the fire resistance test

### 3.2 TEST RESULTS

| No./ Test method            | Parameter                                | Results  |
|-----------------------------|--|--|
| [1] /1<br>EN 14135:<br>2004 | supporting construction                  | Standard construction according to EN 14135 (horizontal construction):<br>wooden beams (45 x 95 x 3000) mm, placed in spacing 600 mm, covered by chipboard 18 mm thick with bulk density $645 \text{ kg.m}^{-3}$ |
|                             | temperature curve                        | standard temperature time curve  |
|                             | thermal insulation                       | Average temperature (250 °C)<br>10 minutes no failure  |
|                             |  | Maximal temperature (270 °C)<br>10 minutes no failure  |
|                             | Ignition or charring at any point on the | 10 minutes no failure  |



| No./ Test method | Parameter   | Results  |
|------------------|---|--|
|                  | underside of the chipboard or on the unexposed side of the covering |  |
|                  | Tested specimen   | Boards of CETRIS, 10 mm thick, with cavity 10 mm, dimension of specimen (3000 x 2500) mm ( 7,5 m <sup>2</sup> ). |

[1] The test was discontinued after period of 10 minutes.

#### 4. CLASSIFICATION AND FIELD OF APPLICATION

##### 4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 7.6 of EN 13501-2 + A1: 2009.

##### 4.2 CLASSIFICATION

The element, Covering made of boards CETRIS, 10 mm thick is classified according to the following combinations of performance parameters and classes as appropriate.

**Fire protection ability classification:**  
**K<sub>1</sub> 10 / K<sub>2</sub> 10**

##### 4.3 FIELD OF APPLICATION

This classification is valid according to EN 14135: 2004 for the following end use applications:

|                  |   |
|------------------|---|
| Substrate        | Covering may be fixed to the substrate according to EN 14135 as follow:<br>- used on substrate with a density of at least 300 kg/m <sup>3</sup> for a covering designated K <sub>1</sub><br>- used on all substrates for a covering designated K <sub>2</sub> |
| Fixation         | Type of covering fixation can not be changed,<br>Decrease in spacing between the fixings is allowed;  |
| Air gap (cavity) | Increase in the thickness of the cavity is allowed;   |
| Orientation      | The results of test is valid for horizontal, vertical and sloped application of the covering;   |

#### 5. LIMITATIONS

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

The classification is valid provided that the product, field of application and standards and regulations are not changed.

Approved:

Ing. Štefan Rástocký  
leader of the testing laboratory



Signed:

Michaela Gorlická  
technician of the testing laboratory