



**TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.**  
**Technical and Test Institute for Construction Prague**

Akreditovaná zkušební laboratoř, Autorizovaná osoba, Certifikační orgán, Notifikovaná osoba, Inspekční orgán  
Accredited Testing Laboratory, Authorized Body, Certification Body, Notified Body, Inspection Body

**Authorized Body 204**  
**Notified Body 1020**  
**Branch 0700 - Ostrava**

# REPORT

**on the initial type test: Reaction to fire**

pursuant to Article 5 Clause 1 d) of the Czech Republic Government Decree No. 190/2002 Coll. (system of assessment 3),  
and in compliance with Direction 89/106/EEC of the European Community Council (Construction Products Direction-CPD),  
as amended by Direction 93/68/EEC of the European Community Council

**No. 1020-CPD-070036080**

Name of product:

**CETRIS<sup>®</sup> cement-bonded particleboard**

Type / variants: For non-load-bearing construction elements that are to be used in dry, humid and exterior conditions,  
board thickness < 16.0 mm, and for load-bearing construction elements that are to be used in dry, humid and exterior  
conditions, board thickness ≥ 16.0 mm according to EN 13986:2004

Manufacturer:

**CIDEM Hranice, a.s.**

Reg. No: 14617081  
Address: Skalní č. 1088, Hranice I - Město, 753 40 Hranice, Czech Republic  
Manufacturer: CIDEM Hranice, a.s.  
Reg. No: 14617081  
Address: Skalní č. 1088, Hranice I - Město, 753 40 Hranice, Czech Republic  
Plant: Division CETRIS  
Address: Nová ulice 223, 753 40 Hranice, Czech Republic  
Order: Z070080718

Number of pages (Report) inclusive of the title page: 3

Number of pages (Annexes): 0

This report is a partial document of the notified body and does not substitute the report of the initial type test.

Person responsible for the content of the report:


  
Ing. Vladimír Plaček, Ph.D.  
Chief Assessor

Person responsible for the correctness of the report:

Stamp of Notified body 1020

Ostrava, 8 December 2008



  
Ing. Olivier Částka  
Deputy Manager of Notified body

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## 1 Specification of the test object

Description and designation of the product:

Product description and its use: CETRIS® Cement-bonded particleboards are boards that are designed for use in dry, humid and outdoor conditions, in technology determined for the construction of fire partitions and walls, fire partition ceilings, soffits, facing and cladding. CETRIS® Boards are also used for CETRIS® floor systems. Further, CETRIS® boards are designed for indoor, outdoor, vertical and horizontal parts of constructions, such as for jacketing of buildings, soffits, etc. When used in connection with other construction materials, CETRIS® Boards that are thicker than 16 mm can also form load-bearing construction elements.

CETRIS® Boards are made of wooden material, cement, water and hydration additives in standard dimensions of 1,250 x 3,350 mm, from 8 to 40 mm thick, when the thickness differs by 2 mm. Standard variants are used for the production of special boards to suit customer requirements, such as boards of smaller dimensions, or milled, drilled or surface-finished boards. Bulk weight: 1350 kg·m<sup>-3</sup>.

CETRIS® Cement-bonded particleboards are manufactured with the following surface treatments: BASIC, PROFIL, PLUS, PROFIL PLUS, FINISH, FINISH PROFIL, DOLOMIT, DOLOMIT NEW and AKUSTIC.

Content of ingredients: wood chips (60 %)  
cement (22 %)  
water (15 %)  
hydration admixture (3 %)

Technical specification:

EN 13986:2004

Manufacturer:

CIDEM Hranice, a.s.  
Skalní č. 1088  
Hranice I - Město  
753 40 Hranice, Czech Republic

Plant:

CIDEM Hranice, a.s.  
division CETRIS  
Nová ulice 223  
753 40 Hranice, Czech Republic

## 2 Sampling

Date of sampling:	Stated in the report of classification of the reaction to fire
Place of sampling:	CIDEM Hranice, a.s. Divison CETRIS, Nová ulice 223, 753 40 Hranice, Czech Republic
Sampler:	Ing. Marie Libosvárová
Sampling method:	Random sampling according to EN 326-1, art. 5
Number of specimen:	No identification





### 3 Performance of tests

Tested by: FIRES s.r.o.  
Osloboditeľov 282  
SK-059 35 Batizovce, Slovak Republic  
and  
Ministry of the Interior of the Slovak Republic  
Požiarnotechnický a expertízny ústav (PTEÚ)  
Rožňavská 11  
SK-831 04 Bratislava, Slovak Republic

Date of the test ending: 10.03.2008

### 4 Test results

#### 4.1 Reaction to fire

Sample specification:

For the reaction to fire testing there was selected a sample according to EN 13823 - see the report of classification of the reaction to fire. The values of the total heat of combustion were calculated in accordance with EN ISO 1716.

Determination was done according to the test instructions:

EN ISO 1716 Reaction to fire tests for building products -  
Determination of the heat of combustion

EN ISO 13823 Reaction to fire tests for building products - Building  
products excluding floorings exposed to the thermal  
attack by a single burning item

Testing equipment and meters:

Testing equipment of the test laboratory FIRES and PTEÚ

Tested by:

FIRES s.r.o.  
Osloboditeľov 282  
SK-059 35 Batizovce, Slovak Republic  
and  
Ministry of the Interior of the Slovak Republic  
Požiarnotechnický a expertízny ústav (PTEÚ)  
Rožňavská 11  
SK-831 04 Bratislava, Slovak Republic

Additional data of the test:

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Test results:

The classification of the reaction to fire according to EN 13501-1 was done on the basis of procedures stated in EN ISO 1716 and EN 13823 and on the basis of the following test reports:

- 12198-1/3, 16.07.2004 (CSI, Czech Republic)
- 06012017, 17.07.2006 (IBS, Austria)
- 05062707-1 (IBS, Austria)
- 172/2006, 12.12.2006 (PTEÚ, Slovak Republic)





- 173/2006, 12.12.2006 (PTEÚ, Slovak Republic)
- 174/2006, 12.12.2006 (PTEÚ, Slovak Republic)
- 175/2006, 12.12.2006 (PTEÚ, Slovak Republic)
- 176/2006, 12.12.2006 (PTEÚ, Slovak Republic)
- FIRES-RF-017-07-AUNS, 09.03.2007 (FIRES, Slovak Republic)
- FIRES-RF-018-07-AUNS, 09.03.2007 (FIRES, Slovak Republic)
- FIRES-RF-019-07-AUNS, 09.03.2007 (FIRES, Slovak Republic)
- FIRES-RF-104-07-AUNS, 18.12.2007 (FIRES, Slovak Republic)
- 23-26/2008, 10.3.2008 (PTEÚ, Slovak Republic)

The product CETRIS<sup>®</sup> cement-bonded particleboard is classified according to EN 13501-1 with respect to its behavior in fire:

**A2;**

**s1** - additional classification with respect to the fume evolution;

**d0** - additional classification with respect to the fire drips/spalling.

The format of the classification of the reaction to fire for construction products except flooring is:

**A2 - s1, d0**

The application of the final use of the boards with individual surface treatments and their classification of the reaction to fire is valid under the conditions stated in:

- Report of classification of the reaction to fire no. FIRES-CR-050-07-NURS dated 26.03.2007 with the validity until 26.03.2012.
- Report of classification of the reaction to fire no. FIRES-CR-044-08-NURS dated 22.04.2008 with the validity until 22.04.2013
- Report of classification of the reaction to fire no. FIRES-ER-002-08-NURS dated 22.04.2008 with the validity until 22.04.2013

Application area:

- product may be used in horizontal (except flooring) and vertical position
- without surface treatment
- with surface treatment according to art. 1
- without cavity
- with cavity
- with timber supporting construction
- with steel supporting construction
- with non-glued gaps of board joints
- with glued gaps of board joints

The classification is valid for following parameters:

- thickness (from 8 mm to 40 mm; thickness of mineral wool may be changed; thickness of finishing may be changed within the production tolerances)
- bulk density (may be changed within the production tolerances; bulk density of mineral wool may be increased)
- square weight (paint weight on the surface may be changed within the production tolerances)





- product composition (ingredient contents of CETRIS boards may not be changed; only paints for each surface treatments according to art. 1 may be used for surface treatments of the CETRIS boards; only mineral wool with the class A1 of reaction to fire may be used as insulation; supporting construction may be made of timber, materials on the wooden basis and of steel; type of binder used for gluing joint gaps may not be changed)

