

Classification report Reaction fire

Classification report CR-261 34423-e



Client
Owner **HEKIM YAPI END.SAN.VE TIC.A.S.**
Guzelyali Mah. E-5
Karayolu Uzeri
TR-34903 Pendik Istanbul

Basis

DIN EN 13501-1 : 2002
Fire classification of construction products and building elements
- Part 1: classification using data from reaction to fire tests.

Notified body **ift Rosenheim GmbH**
Theodor-Gietl-Straße 7-9
D-83026 Rosenheim

Number of notified body **0757**

Instructions for use

The present classification report regarding reaction to fire defines the classification assigned to the named product in accordance with the process set out in EN 13501-1. This document is not a type approval or a certification.

Component **Fibre-cement flat sheet / Type NT**

Type **"Hekimboard fibre-cement flat sheet"**

Validity

The data and results given refer solely to the tested and described specimen.

Notes on publication

The **ift** Guidance Sheet "Conditions and Guidance for the Use of **ift** Test Documents" applies. The cover sheet can be used as abstract.

Contents

The report comprises a total of 4 pages.

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Classification  **Classification
Reaction to fire
DIN EN 13501-1 : 2002**

Klasse A1

ift Rosenheim
13. März 2008



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1 Introduction

This classification report defines the classification assigned to the product "Hekimboard fibre-cement flat sheet" in accordance with the procedures given in the standard EN 13501-1 : 2002.

2 Details of the classified product

2.1 Nature and end use application

The product "Hekimboard fibre-cement flat sheet" is defined as a "Fibre-cement flat sheet / Type NT". Its classification is valid for the following end use application(s):

- internal and external wall and ceiling finishes
- facade cladding

2.2 Description

The product "**Hekimboard fibre-cement flat sheet**" consists of a fibre cement sheet, composed of portland cement, silica and organic reinforcement fibres.

In support of this classification, according to clause 3, full descriptions of the product may be found in the listed test reports.

3 Test reports, test results and evaluations supporting this classification

3.1 Test reports

The following test reports, test results and evaluations are presented in support of this classification.

Table 1

Product : "Hekimboard fibre-cement flat sheet"			
Name of the test laboratory	Client	Test report ref. Nr.	Test method
Prüfinstitut Hoch Notified Body: 1508	HEKIM YAPI END.SAN.VE TIC.A.S. Guzelyali Mah. E-5 TR-34903 Pendik Istanbul	ift Rosenheim: 261 34423 dated: 13. März 2008 Prüfinstitut Hoch: 071023 dated: 31.10.2007	EN ISO 1716 (February 2002)
Prüfinstitut Hoch Notified Body: 1508	HEKIM YAPI END.SAN.VE TIC.A.S. Guzelyali Mah. E-5 TR-34903 Pendik Istanbul	ift Rosenheim: 261 34423 dated: 13. März 2008 Prüfinstitut Hoch: 071023 dated: 31.10.2007	EN ISO 1182 (February 2002)

3.2 Test results

Table 2 Fibre-cement flat sheet / Type NT, thickness of the testing material 8 mm

Product: "Hekimboard fibre-cement flat sheet"			Test report ref. Nr.: 261 34423-e			
Test method	Parameters	Criteria for Class A1		Number of tests	Continuous parameters (mean)	Compliance parameter
		Continuous parameters	Compliance parameter			
EN ISO 1716	PCS ⁽¹⁾ + ⁽²⁾ + ⁽⁴⁾	≤ 2,0 MJ/kg	(-)	3	0,9 MJ/kg (m)	(-)
	PCS ⁽²⁾ + ⁽³⁾	≤ 1,4 MJ/m ²	(-)		(-)	(-)
	PCI ⁽⁵⁾	(-)	(-)		(-)	(-)
EN ISO 1182	ΔT ⁽¹⁾	ΔT ≤ 30° C	(-)	3	ΔT = 6° C (m)	(-)
	Δm ⁽¹⁾	Δm ≤ 50 %	(-)		Δm = 14 % (m)	(-)
	t _f ⁽¹⁾	t _f ≤ 0 s	(-)		t _f = 0 s (m)	(-)

(-): not applicable
⁽¹⁾ for non-homogeneous products for each substantial component
⁽²⁾ for non-homogeneous products for each external non-substantial component
⁽³⁾ for non-homogeneous products for each internal non-substantial component
⁽⁴⁾ for the product as a whole
⁽⁵⁾ related PCI-value, if necessary for classification

4 Classification and direct field of application

4.1 Reference and direct field of application

This classification has been carried out in accordance with clause 10.8 of DIN EN 13501-1 : 2002 and EN 12467 : 2006.

4.2 Classification

The product "Hekimboard fibre-cement flat sheet" in relation to its reaction to fire behaviour is classified as:

Table 3 Classification to the fire behaviour according to DIN EN 13501-1 : 2002

fire behaviour	smoke production	Flaming droplets
A1	--	--
Classification of fire behaviour: Class A1		

4.3 Field of application

The classification applies to fibre cement flat sheets of the same mix formulation as the base sheet, and same density as used for the test and within a field determined by the normal manufacturing tolerances.

This classification for the product as described in 2.2, is valid for the following product parameters

- of the same type
- density of 1495 kg/m³
- fixed to wooden or metallic profiles
- without finishes
- without pigmentation

5 Limitations

5.1 Restrictions

At the time the standard EN 13501-1: 2002 was published, no decisions was made concerning the duration of validity of a classification report.

5.2 Warning

This document is not a type approval or certification of the product.

This classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of a system 3 attestation of conformity and CE marking under the Construction Product Directives.

The manufacturer has made a declaration, which is held on file. This confirms that the product's design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitations of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved.

This document is a copy of the original classification report, written in German.

ift Rosenheim
13. März 2008