REACTION TO FIRE CLASSIFICATION

1. Introduction

This classification report defines the classification assigned to the product "trademarked Cellu BOR, Thermal insulation products for buildings - In-situ formed loose fill cellulose (LFCI) products " in accordance with the procedures given in the standard TS EN 13501-1: 2019 using data from reaction to fire tests.

REACTION TO FIRE CLASSIFICATION ACCORDING TO TS EN 13501-1

SPONSOR (Name&Address)	CAG Eng. Arc. Com.
	SELIMIYE MH. KARLIK BAYIRI SK. NO:7/2 USKUDAR/ISTANBUL
DEMANDED BY (Name&Address)	TSE KONYA BELGELENDIRME MUDURLUGU
	Organize Sanayi Bolgesi Vezirköy Cd. Kocadere Sokak 42300 KONYA
MANUFACTURER (Name&Address)	CAG Eng. Arc. Com.
	FEVZI CAKMAK MAHALLES 10615. SK.NO:7 DAIRE:I KARATAY/KONYA
PREPARED BY	TSE Construction Materials Fire and Acoustics Laboratory
CLASSIFICATION REPORT NO.	624894
DATE OF ISSUE	20 September 2021
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2. Details of Classified Product

2.1. General

The classified product is manufactured according to TS EN 15101-1+A1 : 12.2019 defined as "trademarked CelluBOR, Thermal insulation products for buildings - In-situ formed loose fill cellulose (LFCI) products„

2.2. Product Description

General Description	Thermal insulation products for buildings - In-situ formed loose fill cellulose (LFCI) products
Trademark	Cellu BOR
Related Specification(s)	TS EN 15101-1+A1:12.2019

Samples Properties (Designated Features)	
Thickness	200 mm

3. Test Reports and Results in Support of This Classification Report

3.1. Reports

Following test reports were taken into account in the determination of this classification.

Laboratory	Sponsor	Test Report Reference No	Test Method
TSE Construction Materials Fire and Acoustics Laboratory	CAG Eng. Arc. Com.	634616 09-21	TS EN ISO 11925-2: 2020-07
TSE Construction Materials Fire and Acoustics Laboratory	CAG Eng. Arc. Com.	634618 09-21	TS EN 13823:2020-11

3.2. Results

Results of the test reports mentioned in 3.1 and the classification criteria corresponding to class B-s1,d0 as stated in TS EN 13501-1: 2019 are given in the following table.

Test Method	Parameter	Number of Tests	Test Results	
			Mean of continous parameters	Non-continous parameters
TS EN ISO 11925-2 (30 s surface exposure)	FS in 60 s < 150 mm	6		Flames did not reach 150 mm treshold
	No ignition of filter paper			No ignition
TS EN ISO 11925-2 (30 s edge exposure)	FS in 60 s < 150 mm	6		Flames did not reach 150 mm treshold
	No ignition of filter paper			No ignition
TS EN 13823+A1	FIGRA0,2 < 120 W/s	3	o,oo	
	$FIGRA_{0,4}$		o,oo	
	$THR_{600s} \leq 7,5$ MJ		0,35	
	LFS < Edge of the sample			LFS < Edge
	SMOGRA < 30 m^2/s^2		o,oo	
	TSP600s < 50 m2		6,90	
	No flaming droplets s in 600 s in			No flaming droplets

(-) Not applicable.

CALIBRATION CENTER CONSTRUCTION

Classification and Direct Field of Application Declaration of reaction to fire class : B-SId0

4.1. Reference of classification

This classification has been carried out In accordance with clause 11.6, clause 11.9.2 and clause 11.10. I of TS EN 13501-1: 2019

4.2. Classification

In relation to its reaction to fire behavior, the product "trademarked Cellu BOR, Thermal insulation products for buildings - In ,situ formed loose fill cellulose (LFCI) products " has been classified as:

In relation to its smoke production behavior, the product "trademarked Cellu BOR, Thermal insulation products for buildings In-situ formed loose fill cellulose (LFCI) products " has been classified as:

S1

In relation to its flaming droplet production behavior, the product "trademarked Cellu BOR, Thermal insulation products for buildings - In-situ formed loose fill cellulose (LFCI) products " has been classified as:

Fire behaviour	Smoke production	Flaming droplets
B	S1	d0
REACTION TO FIRE CLASS: B-s1,dO		

4.3. Field of Application

This classification is valid for the products manufactured with the same recipe, same type, under the same product name and product details defined in 2.1 in the following end use applications

Substrate	Applications involving the use of the product on surfaces with reaction the fire class of at least A2- sl, do; with thickness of at least 12,5 mm and with a density of at least 525 kg/m3
Air gap	Applications without an air gap behind the insulation product
Thickness	All product thicknesses

5. Limitations

At the time of publishing of the standard TS EN 13501-1 : 2019, there wasn't any decision concerning the duration of validity of a classification report.

The present document represents neither type approval nor certification of the product.

End ofclassification report.