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## Reaction to fire classification report

### 1 Introduction

This classification report defines the classification assigned to the product “Thermocell Wood Fibre Insulation” in accordance with the procedure given in EN 13501-1:2007.

### 2 Details of classified product

#### 2.1 General

The product “Thermocell Wood Fibre Insulation” is defined as a building insulation. Its classification is valid for the following end use application: loose fill insulation for indoor use.

#### 2.2 Product description

Fire retardant treated loose fill wood fibre insulation called “Thermocell Wood Fibre Insulation” with a nominal density range of 26 – 58 kg/m<sup>3</sup>.

### 3 Test reports & test results in support of classification

#### 3.1 Test reports

This classification is based on the test report listed below:

Name of laboratory	Name of sponsor	Test report ref no	Accredited test method
SP	Thermocell Sverige AB	PX25644	EN 13823 EN ISO 11925-2

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### 3.2 Test results

The test results listed below show the worst case as found in the test programme performed and reported according to the table above. The tests have been carried out on products covering the nominal density range. The protocol on test preparation of EGOLF Recommendation EGR 61:2012 “Guidance on mounting and fixing procedure for air blown cellulose based loose fill materials (FprEN 15101-1) in the SBI (EN 13823)” has been applied in the process of preparing the samples for testing.

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance with parameters
EN ISO 11925-2		6		
Edge/Surface flame attack**				
30 s exposure	$F_s \leq 150$ mm		(-)	Compliant
Flaming droplets/particles	Ignition of filter paper		(-)	No ignition of filter paper
EN 13823		3		
	$FIGRA_{0,2MJ}$ (W/s)		807	Compliant
	$FIGRA_{0,4MJ}$ (W/s)		568	Compliant
	$LFS < \text{edge}$		(-)	Compliant
	$THR_{600s}$ , (MJ)		7.1	Compliant
	$SMOGRA$ , ( $m^2/s^2$ )		16	Compliant
	$TSP_{600s}$ , ( $m^2$ )		107	Compliant
	Flaming droplets/particles		(-)	No flaming particles

\*\* : as required to the end use application of the product

(-) : not applicable

**4 Classification and field of application**

**4.1 Reference and direct field of application**

This classification has been carried out in accordance with clause 11 and 15 of EN 13501-1:2007.

**4.2 Classification**

The product called “Thermocell Wood Fibre Insulation” in relation to its reaction to fire behaviour is classified:

D

The additional classification in relation to smoke production is:

s2

The additional classification in relation to flaming particles/droplets is:

d0

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation product is:

Fire Behaviour		Smoke Production			Flaming Droplets	
<b>D</b>	-	s	2	,	d	0

**Reaction to fire classification: *D-s2,d0***

**4.3 Field of application:**

This classification is valid for the following product parameters:

Nominal density: 26 - 58 kg/m<sup>3</sup>.

This classification is valid for the following end use conditions:

Substrates

- Wood based substrates at least 12 mm thick and any end use substrate of Euroclasses A1 or A2 at least 12 mm thick, having a density ≥ 510 kg/m<sup>3</sup>.

The sample was delivered by the client. SP Fire Technology was not involved in the sampling procedure.

## 5 Limitations

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

### SP Technical Research Institute of Sweden Fire Technology - Fire Dynamics

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