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c/o Svensk Packkonstruktion AB  
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## Classification of reaction to fire in accordance with EN 13501-1

### 1 Introduction

This classification report defines the classification assigned to “Lättbetong 320” in accordance with the procedure given in EN 13501-1:2018.

### 2 Details of classified product

#### 2.1 General

The product “Lättbetong 320” is defined as a floor covering. Its classification is valid for the following end use application: Flooring.

#### 2.2 Product description

The product, “Lättbetong 320” (as described by the sponsor), is fully described below or is fully described in the test reports provided in support of classification listed in Clause 3.1.

Product called “Lättbetong 320” with a density of 450 – 520 kg/m<sup>3</sup>. The product is a dry mixture of EPS particles (maximum weight ratio is 3.3 %) and cement. The nominal thickness is 40 – 500 mm.

### 3 Reports and results in support of this classification

#### 3.1 Test reports

Table 1 Test reports forming the basis for this classification.

Name of laboratory	Name of sponsor	Test report reference no	Accredited test methods and date
RISE	Ebetong AB	2P04465-01	EN ISO 1716:2010
RISE	Ebetong AB	2P04465	EN ISO 9239-1:2010

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**3.2 Test results**

Table 2 Test results showing the worst case as found in the test program performed.

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance parameter
EN ISO 9239-1	 <i>Critical flux</i> (kW/m <sup>2</sup> )	3	≥11	Compliant
	<i>Smoke</i> (%.min)		8.3	Compliant
EN ISO 1716	<i>PCS</i> (MJ/kg)* (4)	3	1.38	Compliant

\* : the product is homogeneous

(4): the parameter for the product as a whole

**4 Classification and field of application**

**4.1 Reference of classification**

This classification has been carried out in accordance with clause 12 and 15 of EN 13501-1:2018.

**4.2 Classification**

The product called “Lättbetong 320” in relation to its reaction to fire behaviour is classified:

A2<sub>f1</sub>

The additional classification in relation to smoke production is:

s1

The format of the reaction to fire classification for floorings is:

Fire Behaviour		Smoke Production	
A2 <sub>f1</sub>	-	s	1

**Reaction to fire classification: *A2<sub>f1</sub>-s1***

**4.3 Field of application:**

This classification is valid for the following product parameters:

Nominal thickness:  $\geq 40$  mm.

Nominal density: 450 – 520 kg/m<sup>3</sup>.

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

**5 Limitations**

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

**RISE Research Institutes of Sweden AB  
Department Fire Technology - Reaction to Fire Material Lab**

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