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Reference
P202590R

Reaction to fire classification report of Ecophon products

Introduction

This classification report defines the classification assigned to Ecophon products in accordance with the procedure given in EN 13501-1.

Nature and end use application

The products below are defined as acoustic ceiling membrane component, tiles:

Ecophon Combison Duo A
Ecophon Combison Duo D
Ecophon Combison Duo E

According to the owner of this classification report, these products comply with the preliminary European product specification prEN 13964:2002.

Description

The tiles are manufactured from high density glass wool. The front surface has a painted glass tissue and the back surface of the tile is covered with an unpainted glass tissue. The edges are unprimed, primed or painted depending on the edge design. The thickness of the tile is 40 mm. The tiles are glued to a gypsum board with nominal thickness of 13 mm. The products are fully described in test reports mentioned below.

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Test reports

This classification is based on test reports listed in table 1.

Table 1. Test reports

Name of laboratory	Name of sponsor	Test report ref no	Test method
SP	Saint-Gobain Ecophon AB	KMoo I3 230	EN ISO 1716
SP	Saint-Gobain Ecophon AB	P202590	EN 13823
SP	Saint-Gobain Ecophon AB	P204760G	EN 13823
SP	Saint-Gobain Ecophon AB	P204760E	EN 13823

Test results

The test results listed below show the worst case as found in the test programme performed and reported according to table 1.

Test method	Parameter	Number of tests	Results		Comments
			Continuous parameter mean (m)	Compliance parameter	
EN 13823		3			Worst case result for one product in the test programme.
	<i>FIGRA</i> _{0,2MJ} (W/s)		19	(-)	
	<i>LFS</i> < edge		(-)	Yes	
	<i>THR</i> _{600s} (MJ)		1.3	(-)	
	<i>SMOGRA</i> , (m ² /s ²)		0	(-)	
	<i>TSP</i> _{600s} (m ²)		33	(-)	
	Flaming droplets/particles	(-)	No flaming droplets/particles		
EN ISO 1716		3			Worst case result for individual components that can be a part of several products.
	<i>PCS</i> (MJ/kg) (1)		2.22	(-)	
	<i>PCS</i> (MJ/m ²) (2)		0.43	(-)	
	<i>PCS</i> (MJ/m ²) (2)		0.19	(-)	
	<i>PCS</i> (MJ/m ²) (2)		0.16	(-)	
	<i>PCS</i> (MJ/kg) (4)	2.17	(-)		

(-) : Not applicable

(1): For a substantial component of a non-homogeneous product

(2): For an external non-substantial component of a non-homogeneous product

(4): Worst case for the product as a whole

Reference and direct field of application

This classification has been carried out in accordance with clause 8.3, 10.7, 10.9, 10.10 and 13 of EN 13501-1:2002 and clause 5.2. of EN 13238:2001. This classification has also been carried out in accordance with clause 3.2, 3.3, 3.9, 3.14 and 3.15 in the document “Fire Sector Group Recommendation 009, called Fire testing and classification protocol for mineral wool products”.

Classification

The Ecophon products mentioned on page one in this report in relation to their reaction to fire behaviour are classified:	A2
The additional classification in relation to smoke production is:	s1
The additional classification in relation to flaming particles/droplets is:	d0

The final classification is **A2-s1,d0**

Field of application:

This classification is valid for the following end use conditions:

Orientation:

The classification is valid for both faces. The product may be mounted in a horizontal or vertical orientation.

Mounting:

The tiles can be loosely placed or mechanically fixed to a metal framework that is suspended from a ceiling, i.e. mounted with a void. Alternatively the tiles can be mechanically fixed or glued directly with an acoustic cement glue (0.5 l/m²) to a substrate either in a wall or ceiling configuration.

When loosely placed or mechanically fixed to a metal framework the tiles can be mounted in combination with “Ecophon Combison XR”. “Ecophon Combison XR” is placed above the tiles. The glass tissue facing on “Ecophon Combison XR” is exposed to the void.

Substrates:

For each of the mounting configurations mentioned above the following substrates can be used:

Wood based substrates at least 12 mm thick having a density $\geq 630 \text{ kg/m}^3$.

Substrate of spruce at least 12 mm thick having a density $\geq 460 \text{ kg/m}^3$.

Substrates of Euroclass A1 and A2 at least 6 mm thick having a density $\geq 630 \text{ kg/m}^3$.

This classification is also valid for the following product parameters:

Painted glass tissue, front surface:

PVAC-paint, nominal area weight: see report P202590

Glass tissue, nominal area weight: see report P202590

PVAC-adhesive, nominal amount: see report P202590

Glass tissue, back surface:

Nominal area weight: see report P202590

Tile of glass wool:

Nominal density: see report P202590

Nominal thickness: see report P202590

Nominal binder content: see report P202590

“Ecophon Combison XR”

Product parameters for “Ecophon Combison XR”: see report P204760G

Restrictions

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Warning

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

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