

Saint Gobain Ecophon AB
Box 500
260 61 HYLlinge

Handled by, department
Patrik Johansson
Fire Technology
+46 33 16 50 92, patrik.johansson@sp.se

Date
2004-06-16

Reference
P202590M

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 components, tiles:

Ecophon Hygiene Meditec A
Ecophon Hygiene Meditec E
Ecophon Hygiene Performance A
Ecophon Hygiene Protec A
Ecophon Hygiene Protec C
Ecophon Hygiene Protec Baffle
Ecophon Hygiene Protec Wall Baffle
Ecophon Hygiene Advance A
Ecophon Hygiene Advance Baffle

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 or is covered with a foil. The back surface of the tile is covered with a painted or unpainted glass tissue or with a foil. The edges are unprimed, primed or painted depending on the edge design. The thickness of the tile is 15 - 50 mm. The products are fully described in test reports mentioned below.

Test reports

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

SP Swedish National Testing and Research Institute

Postal address
SP
Box 857
SE-501 15 Borås
SWEDEN

Phone / Fax / E-mail
+46 33 16 50 00
+46 33 13 55 02
info@sp.se

Reg.number
556464-6874

Laboratories are accredited by the Swedish Board for Accreditation and Conformity Assessment (SWEDAC) under the terms of Swedish legislation. This report may not be reproduced other than in full, except with the prior written approval of SP.



Table 1. Test reports

Name of laboratory	Name of sponsor	Test report ref no	Test method
SP	Saint-Gobain Ecophon AB	P204760A	EN 13823
SP	Saint-Gobain Ecophon AB	P204760C	EN 13823
SP	Saint-Gobain Ecophon AB	KMoo I3 203	EN ISO 1716
SP	Saint-Gobain Ecophon AB	KMoo I3 230	EN ISO 1716
SP	Saint-Gobain Ecophon AB	P202590	EN 13823
SP	Saint-Gobain Ecophon AB	P301601	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	<i>FIGRA</i> _{0,2MJ} (W/s) <i>LFS</i> < edge <i>THR</i> _{600s} (MJ) <i>SMOGRA</i> , (m ² /s ²) <i>TSP</i> _{600s} (m ²) Flaming droplets/particles	3	80	(-)	Worst case result for one product in the test programme.
			(-)	Yes	
			0.5	(-)	
			0	(-)	
			28	(-)	
			(-)	No flaming droplets/particles	
EN ISO 1716	<i>PCS</i> (MJ/kg) (1) <i>PCS</i> (MJ/m ²) (2) <i>PCS</i> (MJ/m ²) (2) <i>PCS</i> (MJ/kg) (4)	3	1.54	(-)	Worst case result for individual components that can be a part of several products.
			0.79	(-)	
			0.19	(-)	
			2.37	(-)	

(-) : 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.

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 ≥ 630 kg/m³.

Substrate of spruce at least 12 mm thick having a density ≥ 460 kg/m³.

Substrates of Euroclass A1 and A2 at least 6 mm thick having a density ≥ 630 kg/m³.

This classification is also valid for the following product parameters:

Painted glass tissue, front surface:

PVAC-paint, nominal area weight: see report P204760A

Glass tissue, nominal area weight: see report P204760A

PVAC-adhesive, nominal amount: see report P204760A

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

Restrictions

—

Warning

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

SP Sveriges Provnings- och Forskningsinstitut
Fire Technology, Materials Reaction to Fire


Björn Sundström
Head of Section


Per Thureson
Technical Manager