

**REACTION TO FIRE
CLASSIFICATION REPORT
OF EWONA COMPACT
FIXED ON STEEL SHEET**

Tutkimustulos



1006 (EN 45004, Annex A)

Reaction to fire classification report of Ewona Compact fixed on steel sheet

Classification standard: EN 13501-1:2002

Requested by: Ewona Oy

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Order Jarmo Koivisto, 10 August 2004

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1 Task Reaction to fire classification report of a polyester insulation product fixed on steel sheet

2 Introduction This classification report defines the classification assigned to the product Ewona Compact fixed on steel sheet in accordance with the procedures given in EN 13501-1:2002.

3 Details of classified product

3.1 Nature and end use application

The product Ewona Compact fixed on steel sheet is defined as a polyester insulation product fixed mechanically on steel sheet. Its classification is valid for end use applications as thermal insulation in air conditioning equipments.

3.2 Description

The product Ewona Compact is a polyester wool board with a nominal density of 36 kg/m³ and thickness 25 mm. The wool board is mechanically fixed on 0,75 mm thick steel sheet.

4 Test reports and test results in support of this classification

4.1 Test reports

Name of laboratory	Name of sponsor	Test report ref. no	Test method
VTT	Ewona Oy	RTE1103/04	EN 13823:2002
VTT	Ewona Oy	RTE2064/04	EN ISO 11925-2:2002

4.2 Test results

Test method	Parameter	Number of tests	Continuous parameter mean (m)	Compliance parameters
EN 13823:2002	FIGRA _{0,2 MJ} (W/s)	3	76	-
	FIGRA _{0,4 MJ} (W/s)	3	66	-
	THR _{600s} (MJ)	3	2,3	-
	LFS < edge	3	-	Y
	SMOGRA	3	12	-
	TSP _{600s} (m ²)	3	43	-
	Flaming droplets / particles	3	-	Y
EN ISO 11925-2:2002 30 s exposure	F _s ≤ 150 mm	6	-	Y
	Flaming droplets / particles	6	-	Y

5 Classification and direct field of application

5.1 Reference and direct field of application

This classification has been carried out in accordance with clause 10.6 of EN 13501-1:2002.

5.2 Classification

The product Ewona Compact fixed on steel sheet in relation to its reaction to fire behaviour is classified:

B-s1, d0

5.3 Field of application

This classification is valid for the following end use conditions:

Density of the wool: < 36 kg/m³

Thickness of the wool: < 25 mm

Substrates: class A2 material or free standing.

Steel sheet: thickness at least 0,75 mm.

Fixings: mechanically

6 Limitations

6.1 Restrictions

This classification report is valid as long as the composition and structure of the products are not changed.

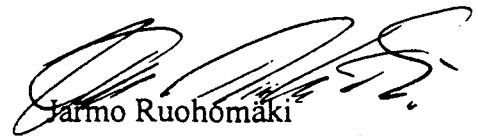
6.2 Warning

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

Espoo 11 August 2004



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