

## REACTION TO FIRE CLASSIFICATION REPORT No. RA12-0108 ACCORDING TO THE EUROPEAN STANDARD NF EN 13501-1

Notification by the French Government to the European Commission under no 0679.

Seule la version française fait foi.

The french version is legally acceptable

### Product standard

**NF EN 14509:** "Self-supporting double skin metal faced insulating panels -  
Factory made products - Specifications"

<b>Owner:</b>	<b>PANELCO SAS Route de Chaveyriat 01540 VONNAS FRANCE</b>
<b>Commercial brand(s):</b>	<b>SB05LR et SB06LR (130 kg/m<sup>3</sup>)</b>
<b>Manufacturing unit(s):</b>	<b>PANELCO SAS Route de Chaveyriat 01540 VONNAS FRANCE</b>
<b>Brief description:</b>	<b>Self-supporting double skin metal faced insulating sandwiches panels</b> (see detailed description in paragraph 2)
<b>Date of issue:</b>	<b>March 29<sup>th</sup>, 2012</b>

The indicated classification does not prejudice the conformity of marketed materials with the samples submitted to the tests and under no circumstances, this document should not be considered as type approval or certification of the product in the sense of the L 115-27 article of the consumption's code and of the law dated June 3<sup>rd</sup>, 1994.

If this report is being issued by e-mail and/or on an electronic medium, only the hard copy of the report signed by CSTB shall prevail in the event of a dispute.

The reproduction of this classification report is only authorised in its integral form.

It comprises 6 pages.

## **1. Introduction**

This classification report defines the classification assigned to the above-mentioned product(s) in accordance with the procedures given in the NF EN 13501-1 standard.

## **2. Product description**

Sandwich panel consisting of a rock wool core glued (3 possible polyurethane glues: one bi-component glue and two mono-component glues) between two precoated steel sheet facings and closed on the 4 edges with an aluminium profile.

Mounting with a visible silicone-based sealant between panels on the fitting and on both sides of the corner flashing (only on surface).

The joint between panels is filled with a butyl sealant.

Nominal thicknesses of the panels: 50 and 60 mm.

Nominal density of the rock wool: 130 kg/m<sup>3</sup>.

Nominal thickness of steel sheets: 0.6 mm.

Finishing coat: polyester 25 µm.

Colour: white (finishing coat).

### 3. Tests reports and tests results in support of this classification

#### 3.1 Tests reports

<b>Name of laboratory</b>	<b>Name of sponsor</b>	<b>Test identification</b>	<b>Test report Nos.</b>	<b>Test method</b>
<b>CSTB</b>	<b>PANELCO SAS Route de Chaveyriat 01540 VONNAS FRANCE</b>	<b>ES541110581</b>	RA12-0108	EN 13823
	<b>PANELCO SAS Route de Chaveyriat 01540 VONNAS FRANCE</b>	<b>ES541060047</b>	RA06-0511	EN 13823
		<b>ES541050629</b>	RA06-0266	EN ISO 1716
	<b>MYRIAD- CORUS COLORS 22 avenue Jean de Beco 59720 LOUVROIL FRANCE</b>	<b>ES541030758</b>	RA03-0513	EN ISO 1716
<b>LNE</b>	<b>FLUMROC AG 8890 FLUMS SWITZERLAND</b>	-	D041048 CEMAT/3	EN ISO 1716
	<b>FORBO ADHESIVES FRANCE SAS Allée Robert Schuman 41013 BLOIS FRANCE</b>	-	L050653 Document DE/1	EN ISO 1716

**3.2 Tests results**

Test method	Product	Number of tests	Parameters	Results	
				Continuous parameters : mean value	Compliance parameters
EN 13823	SB05LR (130 kg/m <sup>3</sup> )	3	FIGRA <sub>0.2MJ</sub> (W/s)	<b>7.3</b>	-
			FIGRA <sub>0.4MJ</sub> (W/s)	<b>7.0</b>	-
			LFS	-	<b>Not reached</b>
			THR <sub>600s</sub> (MJ)	<b>0.8</b>	-
			SMOGRA(m <sup>2</sup> /s <sup>2</sup> )	<b>0.0</b>	-
			TSP <sub>600s</sub> (m <sup>2</sup> )	<b>17.9</b>	-
			Flaming droplets or debris	-	<b>None</b>
EN ISO 1716	Substantial component (rock wool core)	-	PCS (MJ/kg)	<b>0.9</b>	-
	External non-substantial component 1 (primer + finish)	3	PCS (MJ/m <sup>2</sup> )	<b>0.5</b>	-
	External non-substantial component 2 (visible sealant)	3	PCS (MJ/m <sup>2</sup> )	<b>0.8</b>	-
	Internal non-substantial component (backcoat + glue 1)	3	PCS (MJ/m <sup>2</sup> )	<b>2.8</b>	-
	Internal non-substantial component (backcoat + glue 2)	3	PCS (MJ/m <sup>2</sup> )	<b>3.9</b>	-
	Internal non-substantial component (backcoat + glue 3)	-	PCS (MJ/m <sup>2</sup> )	<b>4.0</b>	-
	Internal non-substantial component 2 (non-visible sealant)	3	PCS (MJ/m <sup>2</sup> )	<b>1.5</b>	-
	Whole product (case with glue 1)	-	PCS (MJ/kg)	<b>2.0</b>	-
	Whole product (case with glue 2)	-	PCS (MJ/kg)	<b>2.4</b>	-
	Whole product (case with glue 3)	-	PCS (MJ/kg)	<b>2.4</b>	-

(-) means: not applicable

**3.3 Additional test**

Test method	Product	Number of tests	Parameters	Results	
				Continuous parameters : mean value	Compliance parameters
EN 13823	SB06LR (130 kg/m <sup>3</sup> )	1	FIGRA <sub>0.2MJ</sub> (W/s)	<b>0.0</b>	-
			FIGRA <sub>0.4MJ</sub> (W/s)	<b>0.0</b>	-
			LFS	-	<b>Not reached</b>
			THR <sub>600s</sub> (MJ)	<b>0.5</b>	-
			SMOGRA(m <sup>2</sup> /s <sup>2</sup> )	<b>0.0</b>	-
			TSP <sub>600s</sub> (m <sup>2</sup> )	<b>21.1</b>	-
			Flaming droplets or debris	-	<b>None</b>

(-) means: not applicable

**4. Classification and direct field of application**

**4.1 Reference of the classification**

This classification has been carried out in accordance with clauses 11.7, 11.9.2 and 11.10.1 of the NF EN 13501-1 standard.

**4.2 Classification**

Fire behaviour		Smoke production		Flaming droplets or debris
<b>A2</b>	-	<b>s1</b>	,	<b>d0</b>

**Classification: A2 - s1, d0**

**4.3 Field of application**

This classification is valid for the following product parameters:

- The product described in paragraph 2.
- A range of nominal thicknesses from 50 ± 7.5 mm to 60 ± 9 mm.
- A range of nominal thicknesses of steel sheet facing from 0.6 mm to 1.2 mm.
- A rock wool insulating material with a density of 130 ± 19.5 kg/m<sup>3</sup> and with a gross calorific value ≤ 0.9 MJ/kg.
- A nominal quantity of bi-component polyurethane glue of 200 g/m<sup>2</sup>.
- A maximum nominal quantity of mono-component polyurethane glue of 120 g/m<sup>2</sup>.
- A 25 µm polyester finish.
- The tested seals and gaskets as described in paragraph 2.

This classification is valid for the following end use conditions:

- With a minimum air gap of 40 mm.

Champs-sur-Marne, March 29<sup>th</sup>, 2012

**The Technician  
Responsible for the test**



**Mohamed EL FAGUI**

**The Head of Reaction to Fire  
laboratory**



**Gildas CREACH**

.....END OF THE CLASSIFICATION REPORT