

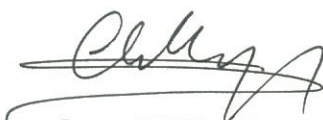


**RENEWAL n° 14/1
OF THE FRENCH "PROCÈS-VERBAL"» n° 09 - A - 015**

According to the March 22nd 2004 decree

Subject	A range of partition walls made of steel frame with facing composed of two layers of gypsum boards PREGYFLAM BA 13 on each side.
Applicant	SINIAT (ex LAFARGE PLATRES S.A.) 500, rue Marcel Demonque Zone du Pôle Technologique Agroparc FR - 84915 AVIGNON cedex 9
Renewed extensions of classification	Extensions of classification can relate to the reference French "Procès-verbal". They can be combined together upon EFECTIS France's approval. Are renewed the extensions of classification issued according to the reference French "procès-verbal", and whose references are : NONE.
Validity	The reference "procès-verbal" and the above-mentioned extensions of classification, as well as those which could have issued after the date of publication of this document, will be valid until : 4 August 2019. After this date, the reference "procès-verbal" is no more valid, except if another renewal delivered by EFECTIS France is enclosed to it. This renewal is only valid if the reference "procès-verbal" is enclosed.

Maizières-lès-Metz, 22 septembre 2014


Renaud SCHILLINGER
Testing Leader


Hervé RYCKEWAERT
Head of Testing Department

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FIRE RESISTANCE of CONSTRUCTION ELEMENTS

in accordance with Ministerial Order dated March 22, 2004 issued by the French Ministry of the Interior

CLASSIFICATION REPORT no. 09 - A - 015

Classification extensions may refer to this report. They may be combined only once the laboratory has advised accordingly.

Period of validity:

This classification report and its extensions are valid until:

04 August 2014.

Reference report:

EFFECTIS FRANCE 09 - A - 015

Relating to:

A range of distribution partitions, comprising two facings of double-thickness PREGYFLAM BA 13.

Applicant:

**LAFARGE PLATRES S.A.
500, RUE MARCEL DEMONQUE
ZONE DU PÔLE TECHNOLOGIQUE AGROPARC
F-84915 AVIGNON CEDEX 9**

This report comprises 7 pages.

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1. BRIEF DESCRIPTION AND USE OF THE ELEMENT

Reference : PREGYMETAL D 98/48 - D 120/70 - D 140/90 - D 150/100

Origin : LAFARGE PLÂTRES, F-84 AVIGNON

1.1 PRINCIPLE OF ASSEMBLY

Distribution partitions faced with double-thickness, special fire-resistance plasterboard PREGYFLAM BA13, screwed to a metal framework.

See Appendix 1 illustration 1.

1.2 DESCRIPTION OF THE ELEMENT

The partitions are assembled from two thicknesses of PREGYFLAM BA 13, fitted either side of a row of PREGYMETAL uprights.

1.2.1.1 Frame

- Smooth edge in 5/10mm galvanized steel, fixed to the masonry by anchors or bolts at 500 mm centres.
- Intermediate uprights in 6/10mm galvanized steel, embedded in the upper and lower sections.

Each upright may have 35 or 50 mm flanges, except for the 100 upright which shall always have 50mm flanges.

An expansion gap of 10 to 15 mm, depending on partition height, is provided each end of the upright.

Where the height required is greater than that of the upright, single uprights are jointed using a rail of at least 0.5m in length screwed to the rear of the upright. Double uprights are fitted together without a flange by offsetting the ends of the uprights by at least 1m.

Four framework configurations are available:

Single uprights at 400 to 600 mm centres.

Double uprights at 400 to 600 mm centres.

Double uprights are screwed together with RT 421 x 9.5 mm or RT 421 x 13 mm screws at intervals of 500 mm.

1.2.1.2 Facings

The partition is faced either side with a double-thickness of PREGYFLAM BA 13 plasterboard panel, with offset joints as follows:

- 400 or 600 mm for vertical joints, depending on the centre distance of the uprights;
- at least 400 mm for horizontal joints.

The panels of the first skin are fixed to the framework with TF 212 x 25 mm screws 300 mm apart.

The panels of the second skin are fixed to the framework with TF 212 x 45 mm screws 150 mm apart.

Along horizontal joints, the panels of the second skin are fixed to the panels of the first with TF 212 x 25 mm screws, 150 mm apart.

The joints of the second thickness of panels are treated using sealing tape + PREGYLYS coating.

NB: PREGYFLAM BA 13 plasterboard panels may be replaced by PREGYFLAM M0 BA 13.

1.2.1.3 Sound insulation

The partition may be insulated with 30 to 70 mm of mineral wool with bulk density of 12 to 17 kg/m³.

1.2.1.4 Electrical equipment

LEGRAND electrical housings (switches or power connectors) may be installed on the partition no more than 1150 mm maximum from the bottom of the partition. They must be protected in one of the following ways.

➤ *Protection by pads of Pregycolle 120*

After sawing the plasterboard panels and routing the electrical cables through, the void in the panel is completely filled using a pad of PREGYCOLLE 120.

The electrical housing is then installed in the normal way, and fitted with the electrical unit.

➤ *Use of units reference 89378*

120 x 55 mm (Ø x d) housings are installed into 127 mm diameter cut-outs.

Units are affixed to the facings with fixing clamps.

The electrical housings are generously coated on the base and outer edges with PREGYCOLLE 120 glue. After fitting the clamps to the panel, the inner ring of the electrical housing is filled completely with PREGYCOLLE 120.

Finishing is by a self-adhesive metal part, covered with a glass fibre mesh, with space for the electrical socket to be fitted. The metal part is then covered with a PREGYLYS coating.

1.2.2 Partition D 98/48

The partition is similar to that described in § 3.3.1, "Basic principle", excepting the framework which is constructed as follows:

The partition framework comprises R 48 peripheral pieces of section 30 x 48 x 30 mm, thickness 5/10 mm, and uprights of thickness 6/10 mm, M 48-35 of section 5.6 x 34 x 46.8 x 36 x 5.6 mm, or M 48-50 of section 5.6 x 49 x 46.8 x 51 x 5.6 mm.

Uprights may be single or double, at centres of 400 or 600 mm depending on the partition height.

This partition has an overall thickness of 98 mm, with an internal gap of 48 mm.

1.2.3 Partition D 120/70

The partition is similar to that described in § 3.3.1, "Basic principle", excepting the framework which is constructed as follows:

The partition framework comprises R 70 peripheral pieces of section 30 x 70 x 30 mm, thickness 5/10 mm, and uprights of thickness 6/10 mm, M 70-35 of section 5.6 x 4 x 68.8 x 36 x 5.6 mm, or M 70-50 of section 5.6 x 49 x 68.8 x 51 x 5.6 mm.

Uprights may be single or double, at centres of 400 or 600 mm depending on the partition height.

This partition has an overall thickness of 120 mm, with an internal gap of 70 mm.

1.2.4 Partition D 140/90

The partition is similar to that described in § 3.3.1, "Basic principle", excepting the framework which is constructed as follows:

The partition framework comprises R 90 peripheral pieces of section 30 x 90 x 30 mm, thickness 5/10 mm, and uprights of thickness 6/10 mm, M 90-35 of section 5.6 x 34 x 88.8 x 36 x 5.6 mm, or M 90-50 of section 5.6 x 49 x 88.8 x 51 x 5.6 mm.

Uprights may be single or double, at centres of 400 or 600 mm depending on the partition height.

This partition has an overall thickness of 140 mm, with an internal gap of 90 mm.

1.2.5 Partition D 150/100

The partition is similar to that described in § 3.3.1, "Basic principle", excepting the framework which is constructed as follows:

The framework of the partition comprises R 100 peripheral pieces of section 30 x 100 x 30 mm, thickness 5/10 mm, and uprights of thickness 6/10 mm, M 100-50 of section 5.6 x 49 x 98.8 x 5.6 mm. Uprights may be single or double, at centres of 400 or 600 mm depending on the partition height.

This partition has an overall thickness of 150 mm, with an internal gap of 100 mm.

2. REPRESENTATIVE NATURE OF THE ELEMENT

The element used for the reference test under the conditions described by the laboratory can be considered as representative of its current common usage.

3. FIRE RESISTANCE CLASSIFICATIONS

3.1 CLASSIFICATION REFERENCE

This classification procedure was performed in accordance with Section 7.5.2 of Standard NF EN 13501-2.

3.2 CLASSIFICATION

The element was classified using the following combinations of parameters and ratings.

R	E	I	W		†	-	M	C	S	G	K
	E				120						
	E	I			120						

4. FIRE RESISTANCE CLASSIFICATION VALIDITY CONDITIONS

4.1 DURING MANUFACTURE AND IMPLEMENTATION

The element and its assembly must comply with the detailed description in the reference report.

Should there be dispute concerning the element which is the subject of this report, the reference report may be requested from its owner, with no obligation to transfer the document.

4.2 DIRECTION OF FIRE

Since PREGYMETAL range partitions are symmetrical, the direction of the fire is immaterial.

4.3 FIELD OF VALIDITY

As stated in sections 13.2. and 13.3. of standard NF EN 1364-1, the element has the following validity range:

Entraxe 400 mm

Hauteur cloison (m) / Type de cloison	< 3	3	3.1	3.2	3.25	3.3	3.4	3.5	3.6	3.7	3.75	3.8	3.85	3.9	4	4.1	4.2	4.3	4.35	4.4	4.45	4.5	4.6	4.7	4.75	4.8	4.9	5	5.1	5.15	5.2	5.3	5.4	5.5	5.6	5.7	5.8		
D98/48 M48-35																																							
D98/48 M48-50																																							
D98/48 M48-35A																																							
D120/70 M70-35																																							
D98/48 M48-50A																																							
D120/70 M70-50																																							
D140/90 M90-35																																							
D120/70 M70-35A																																							
D140/90 M90-50																																							
D120/70 M70-50A																																							
D180/100 M100-30																																							
D140/90 M90-35A																																							
D140/90 M90-50A																																							
D180/100 M100-50A																																							

Entraxe 400 mm

Hauteur cloison (m) / Type de cloison	< 3	3	3.1	3.2	3.3	3.4	3.5	3.55	3.6	3.7	3.8	3.9	4	4.1	4.15	4.2	4.25	4.3	4.4	4.5	4.6	4.65	4.7	4.75	4.8	4.85	4.9	4.95	5	5.1	5.2	5.25	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6	6.05	6.1	6.2	6.3	6.4	6.45			
D98/48 M48-35																																																	
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D140/90 M90-35A																																																	
D140/90 M90-50A																																																	
D180/100 M100-50A																																																	

No changes can be applied to the above-stated dimensions and no changes to the construction of the element can be made without prior issue by the laboratory of a classification extension.

5. VALIDITY PERIOD FOR FIRE RESISTANCE CLASSIFICATIONS

This classification report is valid for **FIVE YEARS** from the date of issue of this document, until:

FOURTH OF AUGUST, TWO THOUSAND AND FOURTEEN

After this date, this report is no longer valid unless it is accompanied by a re-issue supplied by the Laboratory.

Drafted in Maizières-lès-Metz, 04.08.09.

Sébastien BONINSEGNA
Head of Consultancy Department

Régis KORYLUK
Deputy Director
Head of Department: Testing 2

SCHEDULE OF COMPONENTS

No.	Designation	Reference	Material	Characteristics	Supplier
1	Plasterboard sheets	PREGYFLAM BA 13	Glass fibre and vermiculite loaded plasterboard panels standard NF P 72-302	th) 12.5 b.d.: 10.8 kg/m ²	LAFARGE PLATRES
2	Framework uprights	PREGYMETAL M 48-35 ; M48-50 M70-35 ; M70-50 M90-35 ; M90-50 M 100-50	Galvanised steel sheet	th) 6/10	LAFARGE PLATRES
3	Peripheral rail	PREGYMETAL R 48 R70 R90 R100	Galvanised steel sheet	th) 5/10	LAFARGE PLATRES
4	Sealing strip	L.P.	Micro-perforated paper	th) 2/10 Width: 52	LAFARGE PLATRES
5	Internal insulation	P.A.R.	Mineral wool	th) 30 to 70 b.d.: 12 to 17 kg/m ³	ISOVER
6	Seal	Flexible waterproof seal	PVC foam	Section: 20 x 5	LAFARGE PLATRES
7	Screws	RT 421 x 9.5 RT 421 x 13 TF 212 x 25 TF 212 x 45 TF 212 x 45	Phosphated steel	Ø 3.5 x 9.5 Ø 3.5 x 25 Ø 3.5 x 45 Ø 3.5 x 55	LAFARGE PLATRES
8	Coating	PREGYLYS	Mineral filler based		LAFARGE PLATRES