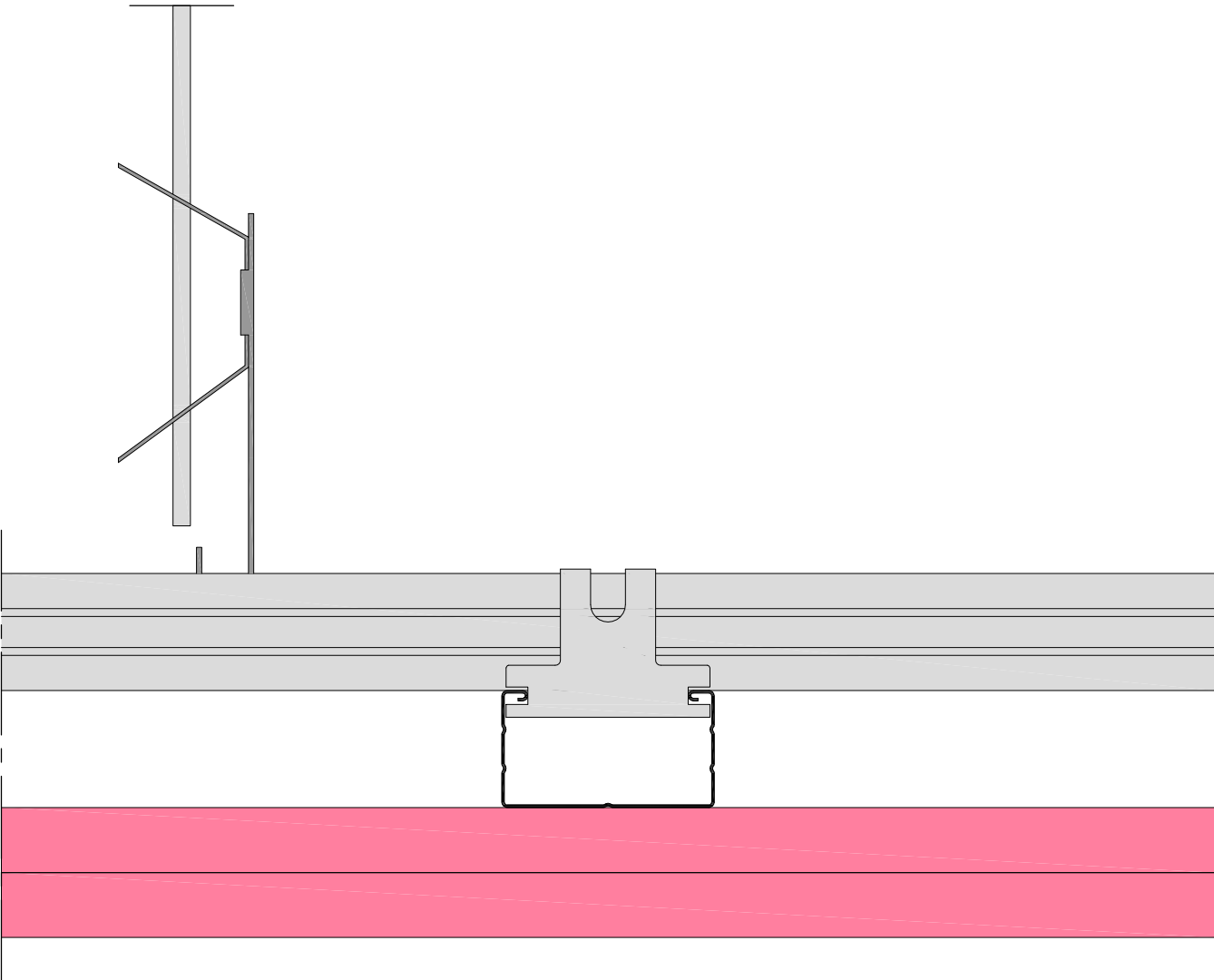


El 60 Open sky ceiling - CR n.288062-3350FR
2 PregyFlam BA15



TRANSLATION
From Italian text



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Registro Imprese di Rimini n. 00 549 540 409
Organismo Europeo notificato n. 0407

Laboratorio autorizzato ai sensi del Decreto del Ministero dell'Interno 26/03/1985

CLASSIFICATION REPORT N. 288062/3350FR

Place and date of issue: Bellaria-Igea Marina - Italy, 09/11/2011

Client: LAFARGE GESSI S.p.A. - Via Giovanni Gioacchino Winckelmann, 2
- 20146 MILANO (MI) – Italy

Sample name: CEILING MEMBRANE WITH DOUBLE LAYER
OF PLASTERBOARDS "PREGYFLAM BA 15"

Introduction.

This fire resistance classification report defines the classification assigned to the horizontal not loadbearing separation element named " CEILING MEMBRANE WITH DOUBLE LAYER OF PLASTERBOARDS "PREGYFLAM BA 15" in compliance to the procedures laid in the standard UNI EN 13501-2: 2009 - November 26, 2009 - " Fire classification of products and building elements - Part 2: Classification based on fire tests results, excluding ventilation systems ".



Comp. PE
Revis.

This classification report consists of n. 6 sheets and may not be reproduced and / or advertized if not integrally.

Sheet
N.1 of 6

(Classification Report N. 288062/3350FR – 09/11/2011)

follows – sheet N.2 of 6



LAB N° 0021

Membro degli Accordi di Mutuo
Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC
Mutual Recognition Agreements

Sample details

Function type.

The horizontal separation element, not loadbearing, named "CEILING MEMBRANE WITH DOUBLE LAYER OF PLASTERBOARDS "PREGYFLAM BA 15" is a ceiling. It has the function of resisting to the fire with reference to the performance characteristics indicated in the paragraph 5 of the standard UNI EN 13501-2: 2009.

Description

The horizontal separation element, not loadbearing, named "CEILING MEMBRANE WITH DOUBLE LAYER OF PLASTERBOARDS "PREGYFLAM BA 15" is constituted by a ceiling , nominal thickness 30 mm, which is formed by a double layer of plasterboards denominated "PREGYFLAM BA 15", nominal thickness 15 mm and nominal weight of 13,4 kg/m², fixed, by phosphated steel self-drilling screws to a metal frame support, not in view, composed essentially of:

- main transversal metal frame realized by galvanized steel sheet profiles in the shape of "□" named "Profil S4927", nominal section 49 x 27 mm and a nominal thickness of 0.6 mm, placed perpendicular to the steel beams at a nominal distance of 900 mm and suspended by spring hangers with eyelet bar at a nominal distance of 1200 mm;
- longitudinal secondary metal frame realized by galvanized steel sheet profiles in the shape of "□" named "Profil S4927", nominal section 49 x 27 mm and a nominal thickness of 0.6 mm, placed, at a nominal distance of 400 mm, perpendicular to the profiles of the main transversal metal frame at which they are fixed by steel sheet connectors , nominal thickness 0,7 mm, named "Union Hanger for S4927 profiles";
- Perimeter track realized by galvanized steel sheet profiles in the shape of "□" nominal section 29 x 29 mm and nominal thickness of 0.6 mm, fixed by steel expansion plugs to the test frame.





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Test report and test results to support this classification report.

This classification report is supported by the following test report.

| | |
|---------------------------|--|
| Laboratory | Istituto Giordano S.p.A. |
| Laboratry address | Via Verga, 6 -47043 Gatteo (FC) - Italy |
| Authorization code | RN01FR04C1 |
| Client | LAFARGE GESSI S.p.A. Via Giovanni Gioacchino Winckelmann, 2 -20146 MILANO (MI) - Italy |
| Test report | N. 288062/3350FR – 09/11/2011 |
| Date of test | 22/09/2011 |

Exposure conditions

| | |
|-----------------------------------|---|
| Temperature / time curve | Standard ((the heating conditions and the environment of the oven, are those indicated in the standard UNI EN 1363-1: 2001 - 31/07 / 2001 "Test on fire resistance - General requirements", paragraphs 5.1.1, 5.1.2 and 5.2.1) |
| Direction of exposure | Soffit surface exposed to fire (from below) (test of 22/09/2011) |
| Number of exposed surfaces | 1 |
| Support Conditions | Supporting construction not standardized |



(Classification Report N. 288062/3350FR – 09/11/2011)

follows – sheet N.4 of 6



LAR N° 0021

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Test results

Leakage

| | Test of 22/09/2011 with soffit surface exposed to fire (from below) |
|---|---|
| Ignition of the cotton swab | No ignition |
| Presence of persistent flame | No presence |
| Passage of the caliber of 6 mm in diameter | No pass |
| Passage of the caliber of 25 mm in diameter | No pass |

| | Test of 22/09/2011 with soffit surface exposed to fire (from below) |
|---|---|
| Increase in the average temperature on the unexposed side, greater than 140 ° C | > 67 min |
| Increase in the maximum temperature on the unexposed side, than 180 ° C | 67 min |





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Classification and field of direct application

Reference for classification

This classification has been performed in accordance with paragraph 7.5.4 of the standard UNI EN 13501-2: 2009.

Classification

The horizontal separation element, not loadbearing, named "CEILING MEMBRANE WITH DOUBLE LAYER OF PLASTERBOARDS "PREGYFLAM BA 15" has been classified in accordance with the following combinations of performance requirements and classes.
Not allowed other classifications.

EI 60 (a ← b)

Field of direct application

The horizontal separation element, not loadbearing, named "CEILING MEMBRANE WITH DOUBLE LAYER OF PLASTERBOARDS "PREGYFLAM BA 15" has the following field of direct application according to UNI EN 1364-2: 2002.

| | Standard UNI EN 1364-2:2002 reference paragraph | Variations |
|---------------------|--|---|
| Generalities | 13.1 | The applicability of the test results is limited to other constructions in which the installation of the ceiling is performed from below. |



| | Standard UNI EN 1364-2:2002 reference paragraph | Variations |
|----------------------|--|---|
| Size | 13.3.1 | The test results obtained on the ceiling under examination can be applied to ceilings of any size, provided the distance between the devices suspension is not greater than 1200 mm and the conditions for dilatation are increased properly. |
| Installations | 13.3.2 | The test results obtained on the ceiling under examination can not be applied to ceilings containing installations, crossing or replacing the ceiling. |
| Cavity | 13.3.3 | The test results are valid for every height of cavity. |

Limitations

Restrictions.

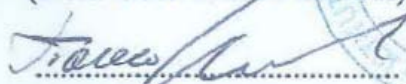
There are no restrictions on the duration of validity of this classification report.

Warning.

This report does not constitute approval or certification of the product.

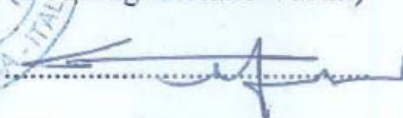
The Technical responsible
for testing

(Dott. Geol. Franco Berardi)



The Laboratory Director
for fire resistance

(Dott. Ing. Stefano Vasini)



The **CEO**

L'AMMINISTRATORE DELEGATO
Dott. Ing. Vincenzo Iommi




(Istituto Giordano - Classification Report N. 288062/3350FR – 09/11/2011)

TRANSLATION
From Italian text

Milan 16 /02/2015

The Translator

Arch. Renato TALAMONTI
(Institutional Technical Activity Manager)

