EC2 SF

Product description

EC2 SF is a self-supporting panels installed on edge angles.
Designed for installation in the building corridors subject to fire stability requirements, it is simple to install and easy to dismantle to allow access to the plenum.

Use

Circulation ceilings for high-rise buildings subject to fire stability regulations.
In France, the decree of 22 March 2004 relating to the fire resistance of products, construction elements and works, requires a minimum stability of 15 min for circulation ceilings in high-rise buildings.

Materials

Galvanized steel 7/10 thickness.

Dimensions

Width : 300 mm (SF 30) / 600 mm (SF 15)
Length on request: 500 mm minimum
/ 2345 mm maximum)
Height : 35 mm

Sharp corner / Longitudinal rod

Colors

- Pre-painted White 137 (~ RAL 9003)
- Post-painted, Polyseter powder coating RAL :

9003 9016 9010 **9005**

- Any other RAL colour on request

Light reflection

CSTB report EMI 18-26077242-1 :
Up to 88%, post painted RAL 9016
Summary in the colors section of the catalogue

Perforations

Standard :

11% Ø 1.5 M

On request:

2% Ø 0.8 U

22% Ø 1.5 M

Non perforated

Bending in perforation

Longitudinal perforation

Non-standard perforation not available for the fire stability report.

Options

The ceiling and its framing must not support any load other than their own weight.

Miscellaneous equipment not included in the test assembly (lighting, ventilation, sound system, signs, etc.) may be hung from the main structure. may be attached to the main or secondary structure of the building using hangers. These can pass through the panel with a minimum of clearance. This secondary structure must then be hot-checked, by test or calculation in accordance with current standards.

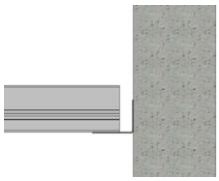
Installation method

All special profiles available on request

The installation method must follow the recommendations in the CSTB test report (available on request):

The edge profiles are 35 x 30 mm angles. The 35 mm flange is fixed to the concrete walls with metal expansion dowel. These fixings are arranged at a maximum pitch of 600 mm. These profiles are thus arranged around the entire perimeter of the ceiling.

The panels sit on the edge angles with a minimum overlap of 20 mm and a minimum gap of 10 mm at each end. There is no clearance at the corridor ends, where the last panels sit on three sides of the edge profiles.



1 EC2 SF Panel

2 REC L SF Edge corner

Fire

Reaction to fire (according to EN 13501-1)

Euroclass A1 for the following products:

- non-perforated pre-painted panel
- pre-painted panel with non-woven fleece or surfaced rock wool lining

Euroclass A2-s1,d0 for products:

- Post-lacquered panels with or without lining

Fire restistance (according to NF EN 13501-2 : 2016-07)

- EC2 SF 600 mm : R 15 min (PV CSTB n°RS21-022/B)
- EC2 SF 300 mm : R 30 min (PV CSTB n°RS21-022/B)

Acoustics

Sound absorption measured in accordance with NF EN ISO 354. Acoustic certificates available on request.

Cleaning

Metal ceilings are resistant and easy to clean.
For dust : Dry clean with a soft cloth or hoover with a soft bristle brush.
For stains : Clean with a damp cloth soaked in a non-abrasive cleaner diluted in water.
For persistent, greasy stains, diluted alcoholic solutions can be used.

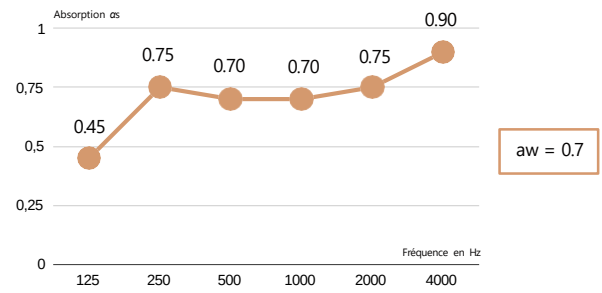
Environment

100% recyclable ceiling, odourless, easy to maintain and does not generate dust, particles, or vapour.

No VOC or formaldehyde emissions.
(Classification A for LR30)

ESDS sheet available on the INIES website (www.inies.fr)

Perforation 11% + black non-woven



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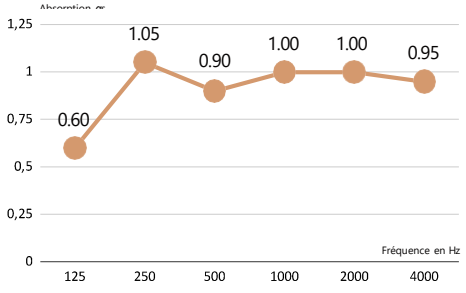
Perforation 11% + Rockwool 30 mm



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CE marking (according to EN 13964)