

RESISTANCE TO FIRE CLASSIFICATION REPORT No EUI-23-000027-A

RESISTANCE TO FIRE CLASSIFICATION IN ACCORDANCE WITH BS EN 13501-2:2023

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Product name:	Suspended MF Ceiling - 2x15mm Siniat Fire Board - 100mm Glass Mineral Wool
Classification report No.:	EUI-23-000027-A
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1. DOCUMENT TRACKING

Revision Index.	Modification
0	Original document

2. INTRODUCTION

This classification report defines the resistance to fire classification assigned to Suspended MF Ceiling - 2x15mm Siniat Fire Board - 100mm Glass Mineral Wool in accordance with the procedure given in BS EN 13501-2:2023.

3. DETAILED OF CLASSIFIED PRODUCT

3.1. GENERAL

The product, Suspended MF Ceiling - 2x15mm Siniat Fire Board - 100mm Glass Mineral Wool, is defined as an asymmetrical, non-loadbearing suspended ceiling.

3.2. DESCRIPTION

The product, Suspended MF Ceiling - 2x15mm Siniat Fire Board - 100mm Glass Mineral Wool, is described below or is described in the reports provided in support of classification listed in section 4.1.

3.2.1. Sample frame

The supporting I-beams were placed at 1200mm centres.

The hangers Siniat 25x25 Metal Angles MFC2525 were cut to a length of 150mm, 0.5mm gauge were secured to the I-beams at 1200mm centres with 5.5x38mm (ØxL) ALLGRIP screws, fixed to the lower flange of the supporting I-beams.

The Siniat Edge Channels MFCE26 3600mm (L), 0.5mm gauge were secured to the furnace frame with 6x25mm (ØxL) Dewalt screws at 600mm centres.

The Siniat Primary Channels MFCP44 600mm (L), 0.8mm gauge were secured to the hangers with two Siniat 12mm wafer head self-drilling screws per hanger. They were then installed at 1200mm centres, starting 230mm from the edge of the sample.

The Siniat Ceiling Channels MFCC50 3600mm (L), 0.55mm gauge were secured to the primary channels with two Siniat 12mm wafer head self-drilling screws per connection. The ceiling channels were spaced at 400mm centres. The ceiling channels contained a splice. The splice had a 150mm overlap, with two Siniat 12mm wafer head self-drilling screws per connection.

Note that no connections were made to the edge channels. The boards perimeter was sealed with Siniat Foil Roll Intumescent Acoustic Sealant.

3.2.2. Exposed side

The inner layer of 15mm Siniat Fire Board was secured to the frame and edges channel with Siniat 25mm self-tapping screws, at 150mm centres on the cut edges, 230mm centres on the middle field of board and 400mm centres on the bound edges.

The joints between the boards and the test frame were sealed with Siniat Foil Roll Intumescent Acoustic Sealant.

The outer layer of 15mm Siniat Fire Board was secured to the ceiling and edges channel with 42mm self-tapping screws, at 150mm centres on the cut edges, 230mm centres on the middle field of board and 400mm centres on the bound edges.

Please note, the joints of the boarding layers were staggered.

The joints and edges of the outer boarding layers were sealed with Siniat Foil Roll Intumescent Acoustic Sealant .

The joints of the outer layer were taped and jointed with Siniat Joint Tape and Siniat Joint Filler.

3.2.3. Unexposed side

The Superglass acoustic insulation 100mm was cut to fit and laid across the top of the sample.

4. REPORTS AND RESULTS IN SUPPORT OF THIS CLASSIFICATION

4.1. REPORTS

Name of Laboratory	Name of sponsor	Report ref. no	Test method and date field of application rules and date
EFFECTIS UK/Ireland	ETEX Building Performance Ltd.	EUI-23-000027-A	BS EN 1364-2:2018

4.2. RESULTS

Test method, test number and date	Subject of the report	No. Tests	Parameter(s)	Results
BS EN 1364-2:2018 EUI-23-000027-A 16 th March 2023	A non-loadbearing Ceiling.	1	Integrity - cotton pad - sustained flaming Insulation	74 minutes** 74 minutes** 71 minutes*

*Failure met with insulation at 71 minutes, exceeded maximum insulation criteria.

**Test was discontinued after a period of 74 minutes due to sustained flaming.

5. CLASSIFICATION AND FIELD OF APPLICATION

5.1. REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 7 of BS EN 13501-2:2023.

5.2. CLASSIFICATION

The element, Suspended MF Ceiling - 2x15mm Siniat Fire Board - 100mm Glass Mineral Wool, is classified according to the following combination of performance parameters and classes as appropriate:

R	E	I	W		t	-	M	S	-	C	IncSlow	sn	ef	r
	E	I			60									

FIRE RESISTANCE CLASSIFICATION	EI60
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5.3. FIELD OF APPLICATION

General

Test results obtained for fire from above are not applicable for the situation with fire from below, and vice versa.

The results of the fire test are directly applicable to constructions of the sample tested, where only one or more of the modifications listed below are made.

Suspended ceilings with fire from below

Size

Test results obtained on a test specimen of 4 m × 3 m or greater, may be applied to ceilings of any dimension, provided that the distribution per unit area of the hangers is not reduced, and the distance BS EN 1364-2:2018 between hangers is not increased. The distance between grid members and the load on the hanger, shall not be increased.

Provisions for expansion in the ceiling system shall be increased pro rata with the extension in sizes, while the gap at the perimeter shall be the same as tested.

Cavity

The test results are valid for cavities of any height.

Length of supporting hangers

The test results are applicable to ceilings suspended by hangers of any length.

6. LIMITATIONS

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

SIGNED



Abdulrahman Abdulghani
Project leader

APPROVED



Maurice McKEE
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