

Resistance to fire classification report

Classification report No:

K-3186/9926-MPA BS

Product name:

Suspended ceiling made of 12,5 mm thick "Fermacell Gipsfaser (gypsum fibre)"-boards + 12,5 mm thick "Fermacell Powerpanel H₂O"-boards fixed at the bottom of a suspended metal section in conjunction with a revision flap.

Sponsor:

XELLA Trockenbau-Systeme GmbH
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Every sheet of this classification report bear the official stamp of the Testing House.

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1 Introduction

This resistance to fire classification report defines the classification, assigned to the suspended ceiling made of 12,5 mm thick "Fermacell Gipsfaser (gypsum fibre)"-boards + 12,5 mm thick "Fermacell Powerpanel H₂O"-boards fixed at the bottom of a suspended metal section in conjunction with a revision flap in accordance with the procedures given in DIN EN 13 501-2 : 2003-12.

2 Details of the classified element

2.1 Type of function

The element is defined as a suspended ceiling made of 12,5 mm thick "Fermacell Gipsfaser (gypsum fibre)"-boards + 12,5 mm thick "Fermacell Powerpanel H₂O"-boards fixed at the bottom of a suspended metal section in conjunction with a revision flap. Its function is to resist fire in respect of the fire performance characteristics given in clause 5 of DIN EN 13 501-2 : 2003-12.

2.2 Description

The above mentioned element is fully described in the test report in support of this classification listed in clause 3.

3 Test reports and test results in support of this classification

This classification report is supported by the following test reports.

Name of Laboratory	Name of sponsor	Test reports / extended application report Nos.	Test method / extended application rules & date
MPA Braunschweig	XELLA Trockenbau-Systeme GmbH, Duisburg	(3329/6686) – Ap from 12.08.2006	DIN EN 1364-2 : 1999-10, DIN EN 1363-1 : 1999-10

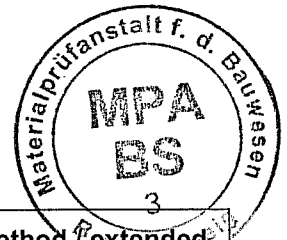
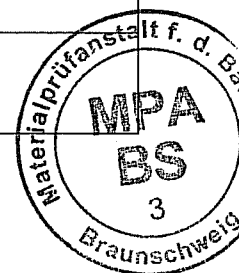


Table 1: Exposure conditions:

Temperature/time curve:	temperature-time curve (standardized) according DIN EN 1363-1 : 1999-10 clause 5.1.1
Direction of fire exposure:	asymmetrical specimen, heated from below
Number of fire exposed sides:	one
Applied load:	non load bearing construction
Support conditions:	supported on four sides (no horizontal edge free)

Table 2: Test results

Loadbearing capacity (R)	
Time of collapse (min.):	-
Deformation criterion exceeded after (min.):	-
Integrity (E)	
Time of ignition of cotton pad (min.):	> 38
Time of occurrence of sustained flaming (min.):	> 38
Time of failure of gap gauge criterion (min.):	-
Thermal insulation (I)	
Time after which the mean temperature rise at the unexposed side exceeds 140 °C (min.):	> 38
Time after which the maximum temperature rise at the unexposed side exceeds 180 °C (min.):	38



4 Classification and direct field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 7.5.4 of DIN EN 13 501-2 : 2003-12.

4.2 Classification

The above mentioned element is classified according to the following combinations of performance parameters and classes. No other classifications are permitted.

R	E	I	W	-	T	-	M	C	S	G	K
-	30	30	-	-	-	-	-	-	-	-	-

Classification of fire resistance: EI 30 (a←b)

4.3 Field of direct application

The following deviations to the element are directly applicable according the provisions of DIN EN 13 501-2 : 2003-12 in conjunction with DIN EN 1364-2 : 1999-10. Furthermore the construction has to comply with the appropriate design code for its stiffness and stability.

4.3.1 Size

The test results achieved for a test-specimen with the dimensions of 4 m x 3 m or more are applicable to suspended ceiling constructions with any dimensions, provided that the

distance between the suspending-hangers will not be increased and additional extension possibilities will be provided.

4.3.2 Fixtures

Test results of suspended ceiling constructions with fixtures, with their own suspending construction are applicable to suspended ceiling constructions with those suspending constructions, provided that the number of these fixtures per area will not be increased.

4.3.3 Cavity

The test results are valid for cavities of any height.



5 Limitations

5.1 Restrictions

The period of validity of this classification report is limitless.

5.2 Warning

This report does not represent type approval or certification of the element.

Classification report	Name	Signature ^{a)}	Date
Prepared by	S. Schmieder		06.11.2006
Reviewed by	A. Rohling		06.11.2006
^{a)} For and on behalf of: Materialprüfanstalt für das Bauwesen, Braunschweig			

