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Institute of Building Materials, Concrete Construction and Fire Safety
Braunschweig Civil Engineering Materials Testing Institute

Classification report on fire resistance

in accordance with EN 13501-2 : 2016

– Translation –

Classification report no.:	K-2102/245/19-MPA BS
Client:	DOLLE AS Vestergade 47 7741 Froestrup, Dänemark
Product to be classified:	Separating floor “Loadbearing, separating, heat-insulating timber joist floor combined with two attic stairs (one with a steel ladder, the other with a timber ladder)”
Number of notified testing body:	0761-CPR
Issue no.:	1st version
Issue date:	03/02/2020

This classification report comprises 4 pages.

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Notified body (0761-CPR) -
Approved as a civil engineering testing, inspection and certifying body as well as notified as a civil engineering testing and certifying body.

1 Introduction

This classification report on fire resistance defines the classification assigned to the component "Loadbearing, separating, heat-insulating timber joist floor combined with two attic stairs (one with a steel ladder, the other with a timber ladder)" in accordance with the procedures stipulated in EN 13501-2 : 2016.

2 Details of the classified product

2.1 Function information

The "Loadbearing, separating, heat-insulating timber joist floor combined with two attic stairs (one with a steel ladder, the other with a timber ladder)" is defined as loadbearing floor combined with two installations.

2.2 Description

The component "Loadbearing, separating, heat-insulating timber joist floor combined with two attic stairs (one with a steel ladder, the other with a timber ladder)" is fully described in the test reports listed in Section 3.1

3 Test reports and test results used to substantiate this classification

3.1 Test results

Name of testing laboratory	Name of client	Number of test report	Testing method
MPA Braunschweig	DOLLE AS Vestergade 47 7741 Froestrup, Dänemark	2101/463/18–Wein dated 10/10/2019	DIN EN 1365-2 : 2000-02, DIN EN 1363-1 : 2012-10

3.2 Results

Component	Separating floor under exposure to fire from below		
Testing method, quantity and date	**Parameter(s)**		**Results**
DIN EN 1365-2 : 2000-02, Test Report No. 2101/463/18–Wein dated 10/10/2019	Fire load:		Standard temperature-time curve in accordance with DIN EN 1363-1 : 2012-10
	Direction of fire load:		From below
	Load applied:		1.74 kN/m²
	Loadbearing capacity:		> 47 min
	Integrity	Cotton pad	> 47 min
		Gap gauge	> 47 min
		Sustained flaming	> 47 min
	Thermal insulation	I	46 min
	Radiation	W	-
	Mechanical load	M	-

4 Classification and scope of application

4.1 Basis for the classification

This classification was performed in accordance with EN 13501-2 : 2016, Section 7.

The test reports in accordance with EN 1365-2 : 2000-02 in conjunction with EN 1363-1 : 2012-10, as listed in Section 3.1, were checked by MPA Braunschweig. The results are assessed in this classification report in accordance with the currently applicable test standards EN 1365-2 : 2015-02 and EN 1363-1 : 2012-10 and considered suitable for classification in accordance with DIN EN 13501-2 : 2016.

4.2 Classification

The component “Loadbearing, separating, heat-insulating timber joist floor combined with two attic stairs (one with a steel ladder, the other with a timber ladder)” is classified by the following combinations of performance parameters and classes:

R	E	I	W		tt	-	M	S	C	IncSlow	sn	ef	r
x	x	x	-		x	-	-	-	-	-	-	-	-

4.2.1 Separating floor under exposure to fire on the underside

Fire resistance classification: REI 45

4.3 Scope of application

The component has the following field of direct application in accordance with EN 13501-2 : 2016 in conjunction with EN 1365-2 :2015-02.

The test results are directly applicable to constructions that deviate from the tested one in one or several of the following aspects:

a) The maximum moments and shear forces must not exceed the tested values, while applying a calculation basis that corresponds to the one that led to the determination of the test load;
b) The board dimensions of the underside cladding may exceed the tested dimensions by maximally 5 % or 50 mm;
c) The dimensions of the largest opening tested or the largest attic stairs tested must not be exceeded;
d) The height of cavity H and the distance d between the underside cladding and the load-bearing timber beam must correspond at the to the tested dimensions (H ≥ 200 mm, d ≥ 30 mm);
e) No additional combustible materials or additional insulating materials other than the tested ones may be installed. An increase in the combustible mass (materials) is not admissible.

5 Restrictions

The classification document cannot be construed as type approval or certification for the product.

Classification report	Name	Signature [a)]	Date
Prepared by	M. Weingarten		03/02/2020
Checked by	G. Blume		03/02/2020
[a)] For and on behalf of: Materialprüfanstalt für das Bauwesen, Braunschweig			

This document is the translated version of Classification Report no. K-2102/245/19-MPA BS dated 21/01/2020. The legally binding text is the aforementioned German classification report.