

Institute of Building Materials, Concrete Construction | Testing Institute and Fire Safety

Braunschweig Civil **Engineering Materials** 

# 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, Denmark

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:

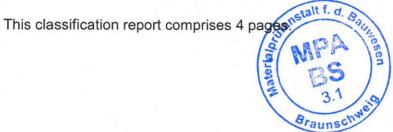
0761-CPR

Issue no.:

1st version

Issue date:

06/02/2020



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#### 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	2101/463/18-Wein dated 10/10/2019	DIN EN 1365-2 : 2000-02, DIN EN 1363-1 : 2012-10
	7741 Froestrup, Dänemark		



#### 3.2 Results

Component	Separating floor under ex	m below			
Testing method, quantity and date	Parameter(s)		Results		
	Fire load:	Standard temperature-time curve in accordance with DIN EN 1363-1 : 2012-10			
DIN EN 1365- 2: 2000-02, Test Report No. 2101/463/18– Wein dated 10/10/2019	Direction of fire load:	From below			
	Load applied (q <sub>k</sub> ):	1.5 kN/m²			
	Loadbearing capacity:	> 47 min			
		Cotton pad	> 47 min		
	Integrity	Gap gauge	> 47 min		
		Sustained flaming	> 47 min		
	Thermal insulation	1	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	ı	w	tt	-	M	s	С	IncSlow	sn	ef	r
x	x	х	-	х	-	-	-	-	-	-	-	-

## 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;
- 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.

Name	Signature a)	Date Brauns	
M. Weingarten	de Rosuiga &	06/02/2020	
G. Blume	Il le	06/02/2020	
	M. Weingarten	M. Weingarten	

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.