



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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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/m ² | |
| | 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 ($H \geq 200$ mm, $d \geq 30$ 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.