



## Classification report on fire resistance

in accordance with EN 13501-2 : 2016

– Translation –

Classification report no.:

K-2104/028/22-MPA BS

Client:

Saint-Gobain Rigips GmbH  
Schanzenstraße 84  
40549 Düsseldorf

Product to be classified:

Loadbearing wall with separating function

“Loadbearing, separating, symmetrically clad timber-stud wall consisting of a timber stud frame, a mineral wool insulation placed between the studs, and a wall cladding made of 1 x 12.5 mm thick “Rigidur H” gypsum fibreboard on each wall side”

Notified testing laboratory no:

0761-CPR

Version no:

1<sup>st</sup> issue

Issue date:

22/11/2022

This classification report consists of 4 pages and 1 annex.



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## 1 Introduction

This classification report on fire resistance defines the classification assigned to the component “Loadbearing, separating, symmetrically clad timber-stud wall consisting of a timber stud frame, a mineral wool insulation placed between the studs, and a wall cladding made of 1 x 12.5 mm thick “Rigidur H” gypsum fibreboard on each wall side” in accordance with the procedures stipulated in EN 13501-2 : 2016.

## 2 Details of the classified product

### 2.1 Function information

The “Loadbearing, separating, symmetrically clad timber-stud wall consisting of a timber stud frame, a mineral wool insulation placed between the studs, and a wall cladding made of 1 x 12.5 mm thick “Rigidur H” gypsum fibreboard on each wall side” is defined as loadbearing wall with separating function.

### 2.2 Description

The component “Loadbearing, separating, symmetrically clad timber-stud wall consisting of a timber stud frame, a mineral wool insulation placed between the studs, and a wall cladding made of 1 x 12.5 mm thick “Rigidur H on each wall side” is fully described in the test report listed in Section 3.1 below and in Annex 1 to this classification report.

## 3 Test reports and test results used to substantiate the classification

### 3.1 Test reports

Name of testing laboratory	Name of client	Number of test report	Testing method
MPA Braunschweig	Saint-Gobain Rigips GmbH Schanzenstraße 84 40549 Düsseldorf	3917/1702–Ap dated 28/10/2002	DIN EN 1365-1 : 1999-10, DIN EN 1363-1 : 1999-10

### 3.2 Results

Component	Loadbearing wall with separating function under exposure to fire on one side		
Testing method, quantity and date	Parameter(s)	Results	
DIN EN 1365-1 : 1999-10, Test Report No. 3917/1702–Ap dated 28/10/2002	Fire load:	Standard temperature-time curve in accordance with DIN EN 1363-1 : 1999-10	
	Direction of fire load:	From the outer wall	
	Load applied:	22 kN/m resp. 2,5 N/mm <sup>2</sup> stress per upright	
	Loadbearing capacity:	≥ 48 min	
	Integrity	Cotton pad	≥ 48 min
		Gap gauge	≥ 48 min
		Sustained flaming	≥ 48 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 report listed in Section 3.1 in accordance with DIN EN 1365-1 : 1999-10 in conjunction with DIN EN 1363-1:1999-10 was verified by MPA Braunschweig and assessed as still applicable for classification. The results are therefore assessed in this classification report based on the currently applicable test standards DIN EN 1365-1 : 2013-08 and DIN EN 1363-1:2020-05.

### 4.2 Classification

The component "Loadbearing, separating, symmetrically clad timber-stud wall consisting of a timber stud frame, a mineral wool insulation placed between the studs, and a wall cladding made of 1 x 12.5 mm thick "Rigidur H on each wall side" 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 Loadbearing wall with separating function in accordance with Section 7.3.2 under exposure to fire on one side**

**Fire resistance classification: REI 45**

**4.3 Scope of application**

The component has the following scope of direct application in accordance with EN 13501-2 : 2016 in conjunction with EN 1365-1 : 2013-08.

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

- a) The wall height may be reduced;
- b) The thickness of the wall may be increased;
- c) The thickness of related materials may be increased;
- d) The length of boards or panels may be reduced, but not their thickness;
- e) The distance between the studs may be reduced;
- f) The distance between fasteners may be reduced;
- g) The number of horizontal joints may be increased;
- h) The load applied may be reduced;
- i) The width of the wall may be increased.

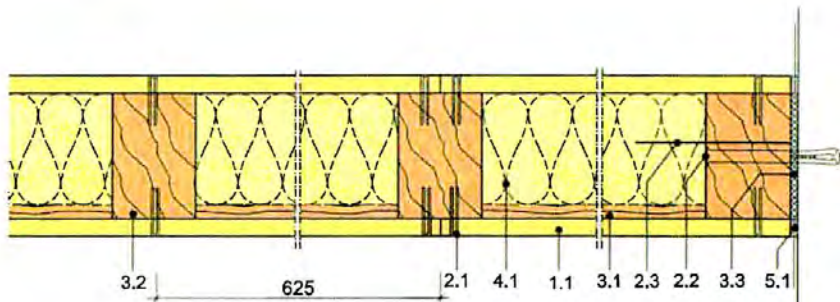
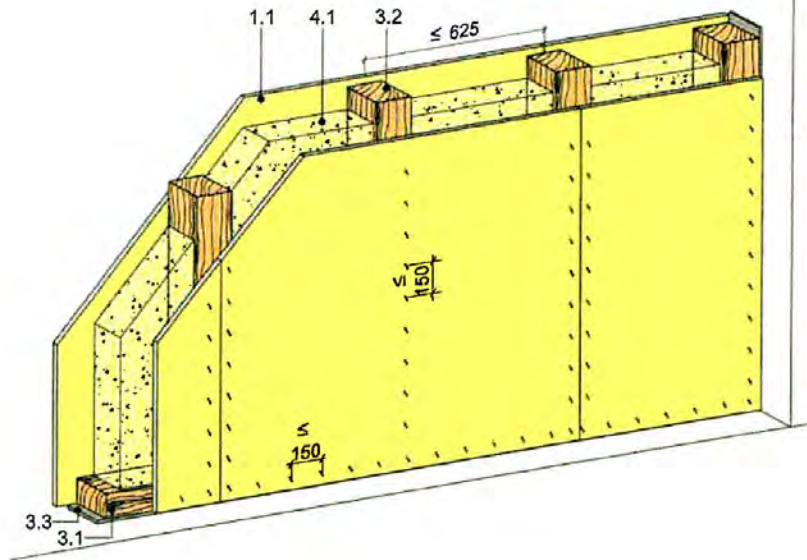
**5 Restrictions**

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

Classification report	Name	Signature <sup>a)</sup>	Date
Prepared by	Fabian Lange, M. Eng.		22/11/2022
Checked by	Dipl.-Ing. Thorsten Mittmann		22/11/2022
a) For and on behalf of: Materialprüfanstalt für das Bauwesen, Braunschweig			

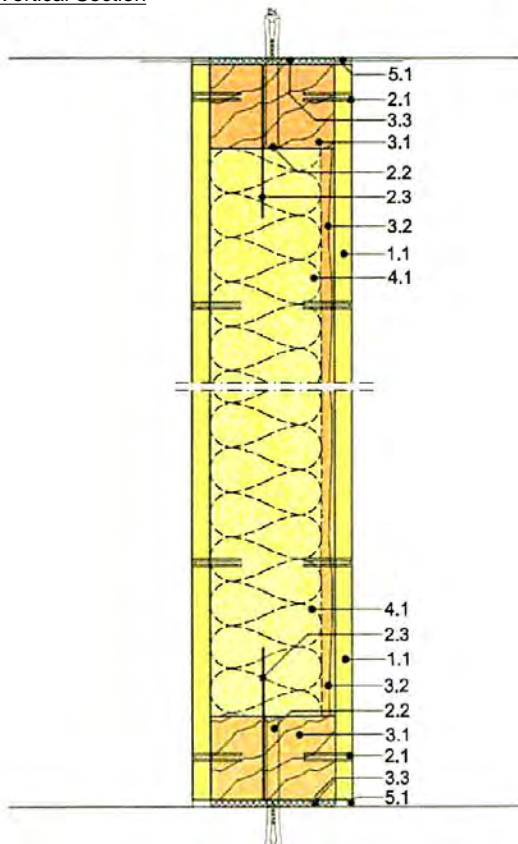


*This document is the translated version of Klassifizierungsbericht K-2104/028/22-MPA BS dated 22/11/2022. The legally binding text is the aforementioned German Klassifizierungsbericht.*



Vertical Section

Horizontal Section



- 1.1 Gypsum fibreboard Rigidur H 12.5 mm
- 2.1 Staples 1.5 x 10 x 45 mm,  $d \leq 150$  mm
- 2.2 Fixing: e.g. frame anchor  $\geq \text{Ø } 8 \times 100$  mm,  $d \leq 1.000$  mm
- 2.3 Nail:  $\geq \text{Ø } 4 \times 90$  mm
- 3.1 Rails: coniferous wood C24 - 60/100 mm
- 3.2 Studs: coniferous wood C24 - 60/100 mm,  $d \leq 625$  mm
- 3.3 Sealing: insulation strip, 100 x 12 mm
- 4.1 Insulation: Rockwool Termarock 30, Thickness - 100 mm  
Type - Stonewool, Density  $\geq 30\text{kg/m}^3$ , Melting Point  $> 1000^\circ\text{C}$
- 5.1 Joint Filler: e.g. Rigips VARIO