	Evidence of Performance Fire classification of construction products and building elements Classification Report No.: 22-002201-PR02 (KB-F15-01-en-02)	rosenheim
Client	LAMILUX Heinrich Strunz GmbH Zehstr. 2 95111 Rehau (Germany)	Basis EN 13501-2:2016 EN 1363-1:2020 EN 1365-2:2014
Prepared by the notified body	ift Rosenheim GmbH Theodor-Gietl-Straße 7-9 83026 Rosenheim (Germany)	This classification report de- fines the classification assigned to the building element accord- ing to its product name in con- formity with the methods set out in FN 13501-2. This classifica-
Notified body No.	0757	tion document does not repre- sent type approval or certifica-
Product name	"LAMLIUX Glasdach Fire Resistance REI90" (as specified by client)	Validity This report does not allow any statement to be made on any
Classification	Classification of fire resistance according to EN 13501-2:2016	further characteristics regarding performance and quality of the product presented.
Issue No.	2	The ift Guidance Sheet "Condi- tions and Guidance for the Use of ift test reports" applies.
	Loadbearing floors and roofs	<ul> <li>Contents</li> <li>The classification report consists of 5 pages and may only be used or reproduced in its entirety.</li> <li>1 Introduction</li> <li>2 Details of classified product</li> <li>3 Test reports/extended application reports and test reports.</li> </ul>
	Classification	sults in support of the classi- fication
	REI 90	4 Classification and field of application

5 Limitations

**ift** Rosenheim 06.10.2022

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PÜZ-Stelle: BAY 18

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# 1 Introduction

This classification report defines the resistance to fire classification assigned to element "LAMLIUX Glasdach Fire Resistance REI90" in accordance with the procedures given in EN 13501-2:2016.

The element "LAMLIUX Glasdach Fire Resistance REI90" was classified for the first time in the classification report 22-002201-PR02 (KB-F15-01-en-01) dated 05.10.2022. This issue 2 replaces the previous issue 22-002201-PR02 (KB-F15-01-en-01) dated 05.10.2022.

# 2 Details of classified product

## 2.1 General

The function of the component "LAMLIUX Glasdach Fire Resistance REI90" is to resist an one-sided fire exposure from below (mullion / transom side) according to the characteristic fire behavior under Clause 5 of EN 13501-2.

## 2.2 Description

The element "LAMLIUX Glasdach Fire Resistance REI90" is fully described in support of classification listed in 3.1.

# 3 Test reports/extended application reports and test results in support of the classification

#### 3.1 Test reports/extended application reports

The following test report, test results and evaluations have been provided to justify this classification.

Name of laboratory/ NB Number	Name of sponsor	Report ref. no	Test standard and date/field of extended application standards and dates
ift Rosenheim / 0757	LAMILUX Heinrich Strunz GmbH 95111 Rehau (Germany)	22-002201-PR01 (PB-F15-01-en-01)	EN 1365-2:2014



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### 3.2 Results

Test report number	Parameters		
22-002201-PR01 (PB-F15-01-en-01) Date: 29.09.2022	Supporting construction	Vertical associated supporting construction, as a construction made of steel sheet; Massive construction with low density: aerated concrete	
	Exposed face	below (mullion/transom side)	
	Inclination	horizontal, 0°	
	Load	Point load, 0,75 kN/m <sup>2</sup>	
	Criteria		Results
	R - Loadbearing capacity		100 minutes
	E - Integrity		100 minutes
	I - Insulation		100 minutes

#### 3.3 Validation

The tests mentioned in 3.1 were performed according to the currently valid test standards.

# 4 Classification and field of application

#### 4.1 Reference for classification

This classification has been carried out in accordance with Clause 7 of EN 13501-2:2016.

#### 4.2 Classification

The element "LAMLIUX Glasdach Fire Resistance REI90" is classified according to the example of the following combinations of performance parameters and classes as appropriate.

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# Fire resistance classification: REI 90



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## 4.3 Field of application

#### 4.3.1 General

This classification is valid for the following end use applications:

For roof constructions and for roof constructions with glazing

#### 4.3.2 Field of direct application as per EN 1365-2

Following configurations of the product are in accordance with the direct application of the test results for the classification under 4.2.

Reference to standard EN 1365-2	Permitted changes to the tested specimen	
A.5	Field of direct application of test res	ults on constructions with glazing
A.5.1	General	
	The results of the fire tests are directly applicable to similar constructions where one or more of the changes listed below are made and the construction continues to comply with the appropriate design code for its stiffness and stability. Other changes are not permitted.	
	a) Decrease in the linear dimensions	of panes
	c) Decrease in the distance between mullions and/or transoms.	
	d) Decrease in distance between fixing centres (e.g. fixing of the framing system to the supporting construction, and fixing of glass panes in the glazing system)	
	<ul> <li>e) Screwed-on glazing beads, if "clip imen</li> </ul>	-on" beads were incorporated in the test spec-
	f) Allowances for expansion if none v	were incorporated in the test specimen
A.5.2	Shapes of flat glass panes	
	The internal angle at each corner of the glass panes incorporated in the test may vary by up to $\pm 15^{\circ}$ of the angles tested, provided the number of corners will not change. The framing members are adapted accordingly.	
A.5.3	Span	
	Decrease of span length is allowed but no extension of span is permitted.	
A.5.5	Angle of inclination / pitched angle	
	The applicability of a test specimen tested at one angle to other angles of installation is as given in Table A.1:	
	Table A.1 - Inclination angle	
	Tested at angle $\alpha$ from the horizontal	Valid for installation in practice
	0°	up to 80°

 Classification

 Fire classification of construction products and building elements

 Project
 22-002201-PR02 (KB-F15-01-en-02) dated 06.10.2022

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Reference to standard EN 1365-2	Permitted changes to the tested specimen	
A.5.6	Supporting constructions	
A.5.6.2	<b>Standard supporting constructions</b> Test results obtained with low density rigid standard supporting constructions may be applied to high density supporting construction (in accordance with EN 1363-1) with at least the same fire resistance classification and an overall thickness equal to or greater than that of the element used in the test.	
A.5.6.3	<b>Non-standard supporting construction</b> The result of a test of fire resistant glazing tested in non-standard supporting construc- tions is only applicable to that construction.	

## 5 Limitations

This classification document does not represent type approval or certification of the product.

ift Rosenheim 06.10.2022