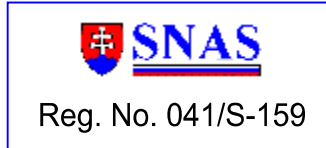


CLASSIFICATION OF FIRE RESISTANCE FIRES-CR-134-14-AUPE

Loadbearing wall, system Frame Factory

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CLASSIFICATION OF FIRE RESISTANCE IN ACCORDANCE WITH EN 13501-2: 2007 + A1: 2009 with direct field of application

FIRES-CR-134-14-AUPE

Name of the product: Loadbearing wall, system Frame Factory

Sponsor: FRAME FACTORY Sp. z.o.o.,
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97-400 Bełchatów,
Poland

Prepared by: FIRES, s.r.o.
Osloboditeľov 282
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Slovak Republic

Tested property: Fire resistance
Test method: EN 1365-2:1999
Type of test: Accredited / Notified (NB 1396)

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1. INTRODUCTION

This classification report defines the resistance to fire classification assigned to element Loadbearing wall, system Frame Factory in accordance with the procedures given in EN 13501-2: 2007 + A1: 2009.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The element, Loadbearing wall, system Frame Factory, is defined as a loadbearing wall with a fire separating function.

2.2 PRODUCT DESCRIPTION

Overall thickness of wall is 180 mm.

: Construction of wall is made of vertically and horizontally oriented perforated steel C profiles (150 x 45 x 10) mm, made of steel zinc coated sheet, 1,6 mm thick (grade of steel S GD350 Zn 275_EN 10-346). Perforation of profiles: \varnothing 34,1 mm and \varnothing 13 mm in spacing 1500 mm. Distance between these holes is 200 mm.

Vertical C profiles are placed at the edges of specimen and next in spacing 600 mm. Horizontal C profiles are placed at the horizontal edges of specimen and in mid-height of specimen.

Profiles are jointed together by steel screws SL4 – F- 4,8 x 16 mm (manufacturer: SFS intec).



: Construction of wall is covered by one layer of plaster boards RigiStabil (DFRIEH2) (manufacturer: Rigips), 15 mm thick, with bulk density 840 kg/m³. The boards are fixed to the wall construction by means of steel pneumatic target nails RNC-SB 28/40 NK placed at the edges of boards and next in spacing 200 mm – 250 mm. The joints of plaster-boards are covered by glass tape and standard gypsum mastic Rigips Vario (manufacturer: Rigips).

: The core of wall is filled by blown cellulose type CLIMATIZER PLUS with bulk density 30 – 60 kg/m³ (manufacturer: CIUR a.s.).

More detailed information about product construction is shown in drawings [1].



3. TEST REPORTS IN SUPPORT OF CLASSIFICATION

3.1 TEST REPORTS

No.	Name of laboratory	Name of sponsor	Test report No.	Date of the test	Test method
[1]	FIRES, s.r.o., Batizovce, SR	BORABELA s.r.o., Czech Republic	FIRES-FR- 100-14-AUNE	30. 05. 2014	EN EN 1365- 1:2012/AC: 2013

[1] Test specimen was conditioned according to EN 1363-1 before the fire resistance test

3.2 TEST RESULTS

No./ Test method	Parameter	Results	
[1] EN 1365-2	applied load	axial loading - 40 kN/m	
	supporting construction	-	
	temperature curve	standard temperature time curve	
	loadbearing capacity	65 minutes no failure	
	integrity	cotton pad	65 minutes no failure
		gap gauges	65 minutes no failure
		sustained flaming	65 minutes no failure
	thermal insulation I	65 minutes no failure	
	Radiation (15 kW.m ⁻²)	65 minutes no failure	
	Impact resistance test	---	
other parameters	symmetric construction of the specimen, both edges of specimen are free		

[1] The fire test was terminated after period of 65 minutes because specimen at the request of sponsor

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 7.3.2 of EN 13501-2: 2007 + A1: 2009.

4.2 CLASSIFICATION

The element, **Loadbearing wall, system Frame Factory**, is classified according to the following combinations of performance parameters and classes as appropriate.

**Fire resistance classification:
REI 60**



4.3 FIELD OF APPLICATION

This classification is valid according to EN 1365-2 for the following end use applications:

Dimensions of wall and insulation boards	Maximal height of wall is 3000 mm; Decrease in height is allowed; Increase in the width of wall is allowed; Increase in the thickness of the wall is allowed; Increase in the thickness of component materials is allowed; Decrease in linear dimensions of boards is allowed, but not thickness;
Fixation of materials	Decrease in stud spacing when insulation boards are fixed is allowed; Decrease in distance of fixing centres is allowed; Increase in the number of horizontal joints of boards;
loading	Decrease in the applied loading, as tested, is allowed; Only axial loading of wall is allowed;

5. LIMITATIONS

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

The classification is valid provided that the product, field of application and standards and regulations are not changed.

Approved:

Signed:

Ing. Štefan Rástocký
leader of the testing laboratory



Michaela Gorlická
technician of the testing laboratory