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Laboratoria Badawcze i Wzorcujące

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Classification of fire restistance

In accordance with PN-EN 13501-2:2016-07

(EN 13501-2:2016)

No. 946/SIA BRODOOR/2020-1/K/1

Test sponsor:

SIA "Brodoor"

Pils rajons 44, Jekabpils, Latvija, LV-5202

Date of issue: 09.04.202.1......

Specimen no.:



Signed by / Podpisano przez:

Maciej Jaśpiński

Date / Data: 2021-04-09 13:51

lssue 1/2 March 2018 Page 1/16





CLASSIFICATION OF FIRE RESISTANCE IN ACCORDANCE WITH PN-EN 13501-2:2016-07 (EN 13501-2:2016)

Sponsor: SIA "Brodoor"

Pils rajons 44, Jekabpils, Latvija, LV-5202

Laboratoria Badawcze i Wzorcujące Prepared by:

ul. Bukowiecka 92, 03-893 Warszawa

Product names: **Brodoor AF01**

Classification report No.: 946/SIA BRODOOR/2020-1/K/1

Issue number: 1

Date of issue: 09.04.2021

This classification report consists of 16 pages and may only be used or reproduced in its entirety.

1. Introduction

This classification report defines the resistance to fire classification assigned to element: Brodoor AF01, in accordance with the procedures given in PN-EN 13501-2:2016-07 (EN 13501-2:2016).

2. Details of classified product

2.1 General

The element, Brodoor AF01 is defined as a fire doors.

2.2 Description

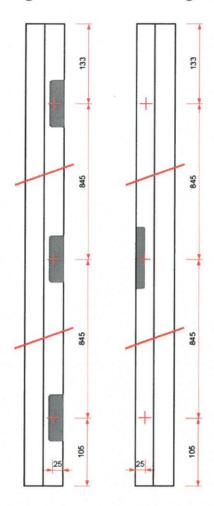
The element, Brodoor AF01 is briefly described below. Full description of the element is located in the test report(s) and/or extended application report(s) in support of classification listed in section 3.1.

2.2.1 Mounting structure

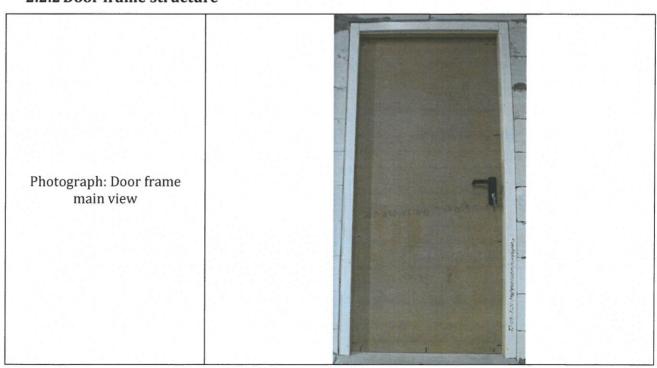
Туре	Minimal thickness [mm]	Minimal density [kg/m³]	Mounting	Finish
Standard rigid mounting structure	115	600	3 screws on the left and right side ac- cording to client's scheme below	gap between doorframe and supporting construction filled with Fire Rated Gunfoam B1 Penosil Premium

Issue 1/2 march 2018

Fig. 1. Method of mounting

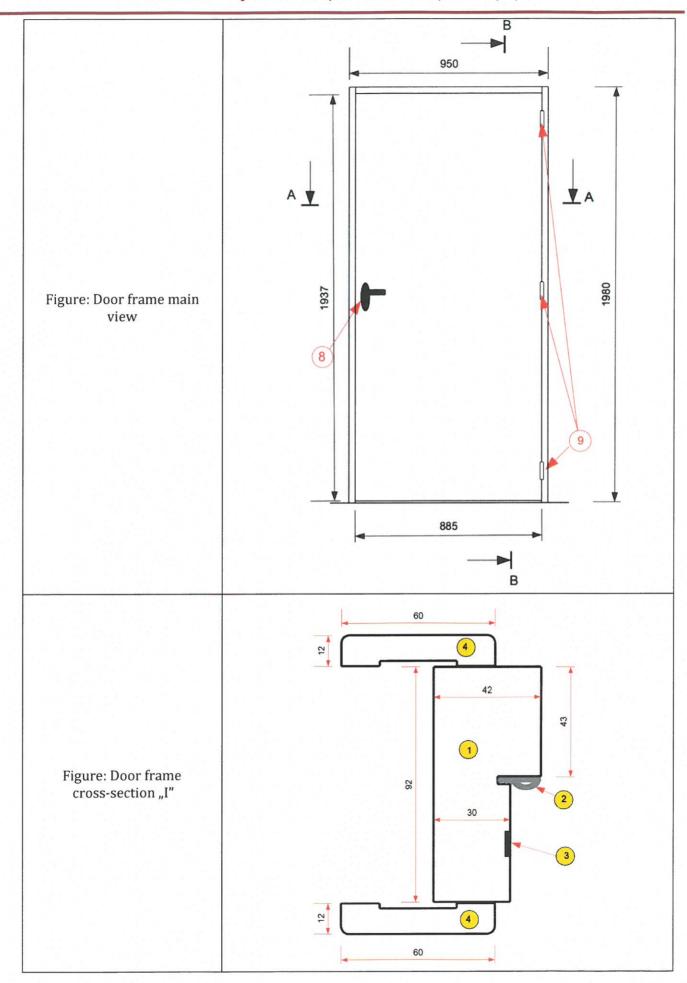


2.2.2 Door frame structure

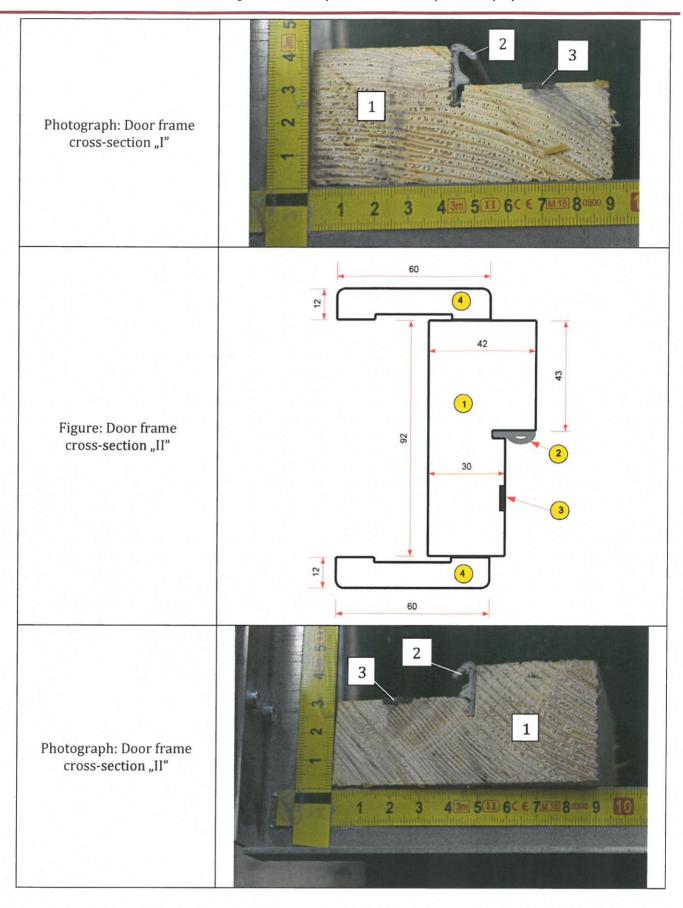


Issue 1/2 march 2018

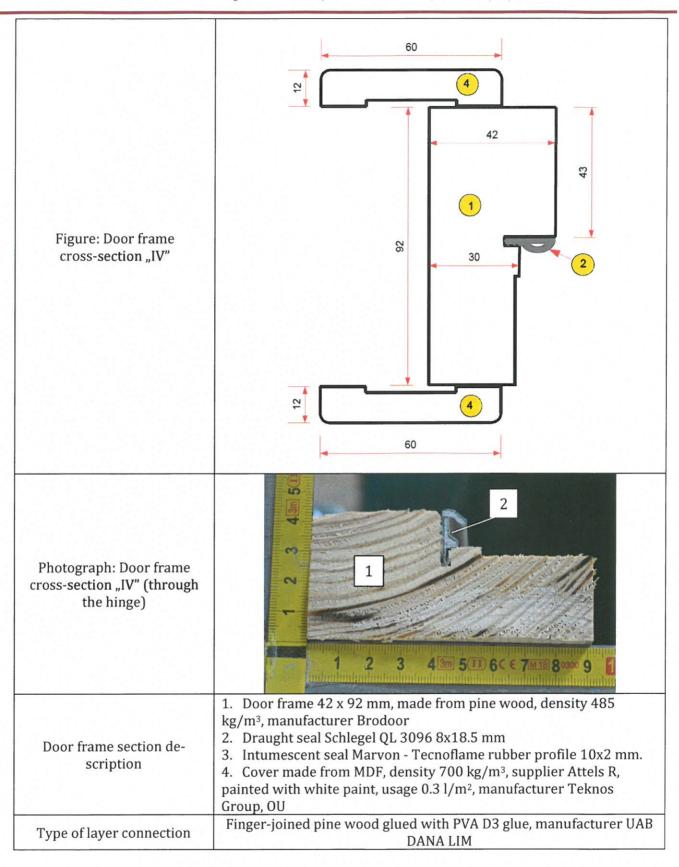
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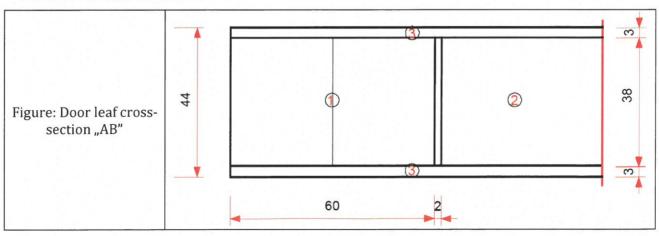
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Photograph: Corner connection	
Description of corner connection	Corners are connected with 2 screws L=79,2 mm ø 4,4 mm
Cuts out in door frame	3 cuts for each hinge, 1 cut for lock's catch plate
Photograph: cuts in intumes- cent seals for hinges	3 1 1 1 3 10 11 12 13 14 15 16 17 18 19 20 21 21 3 14 15 16 17 18 19 20 20 3 14 15 16 17 18 19 20 20 3 14 15 16 17 18 19 20 20 3 14 15 16 17 18 19 20 3 14 15 16 17 18 19 20 3 14 15 16 17 18 19 20 3 14 15 16 17 18 19 20 3 14 15 16 17 18 19 20 3 14 15 16 17 18 19 20 3 14 15 16 17 18 19 20 3 14 15 16 17 18 19 20 3 14 15 16 17 18 19 20 3 14 15 16 17 18 19 20 3 14 15 16 17 18 19 20 3 14 15 16 17 18 19 20 3 14 15 16 17 18 19 20 3 14 15 16 17 18 19 20 3 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18
Photograph: cuts in intumes- cent seals for lock`s catch plate	1 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 105 107 108 108 107 108 108 107 108 108 108 108 108 108 108 108 108 108
Intumescent seals of door frame - description	Marvon -Tecnoflame rubber profile 10 x 2 mm, quantity 1 pcs, position – 20 mm from the doorframe edge.
Cuts in door frame intumes- cent seals	Hinges: length 112 mm, seal fully removed Lock`s catch plate: length 170 mm, seal fully removed
Photograph: Door frame draught seal	

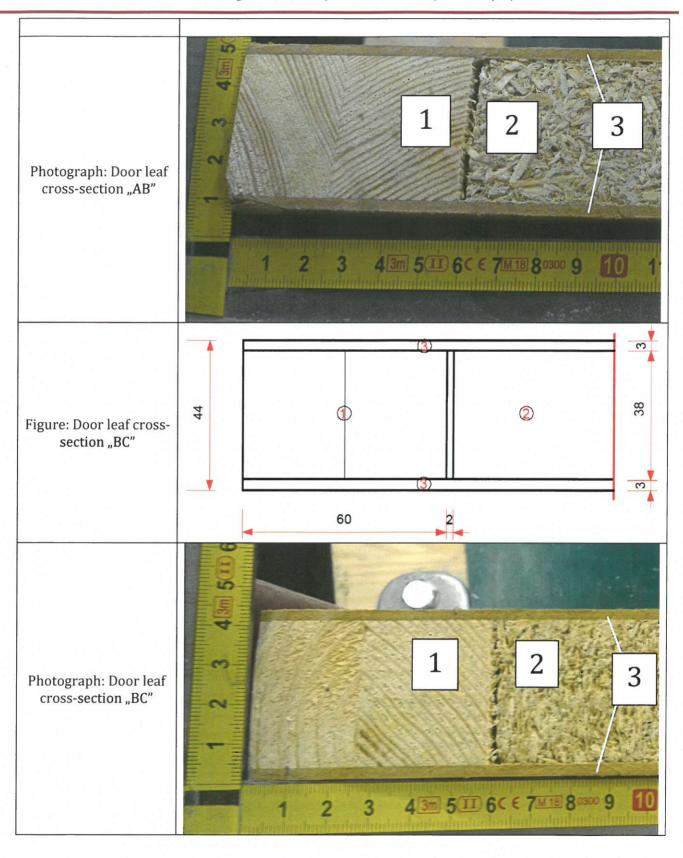
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Description of door frame draught seal	Schlegel QL 3096 8x18.5 mm
Draught seal of the door - reaction to fire	Unknown
Door frame assembly with supporting construction	3 screws on the left and right side according to client's scheme, gap between doorframe and supporting construction filled with Fire Rated Gunfoam B1 Penosil Premium
	25 25 25

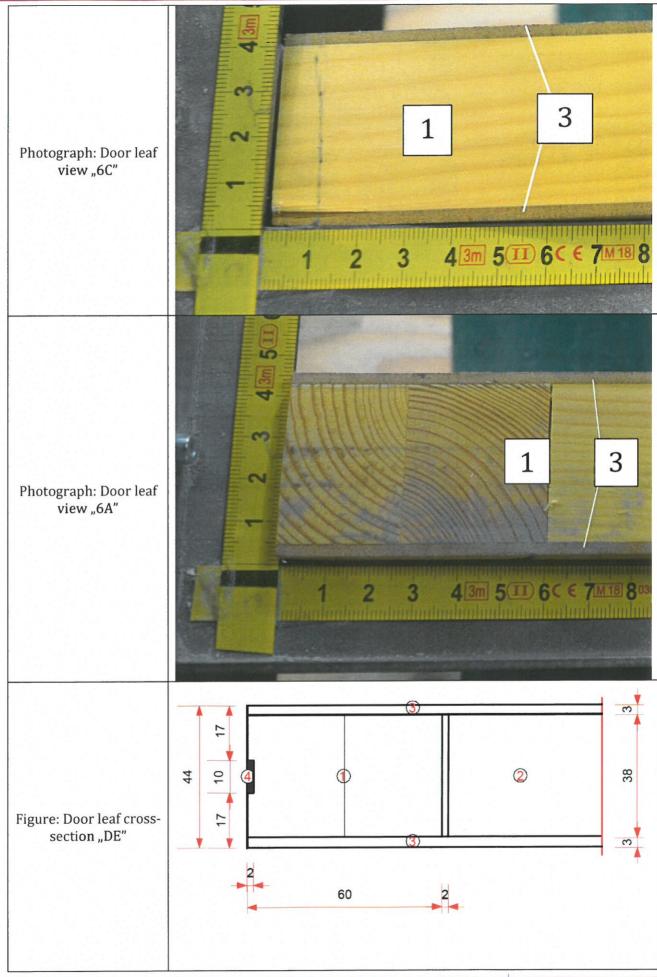
2.2.3 Door leaf structure

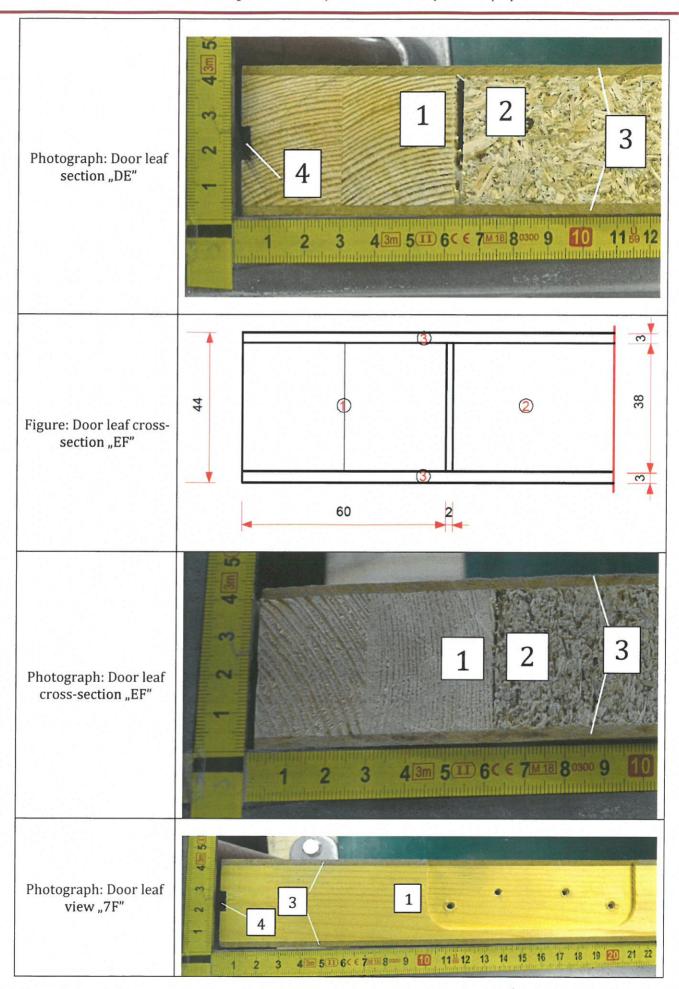


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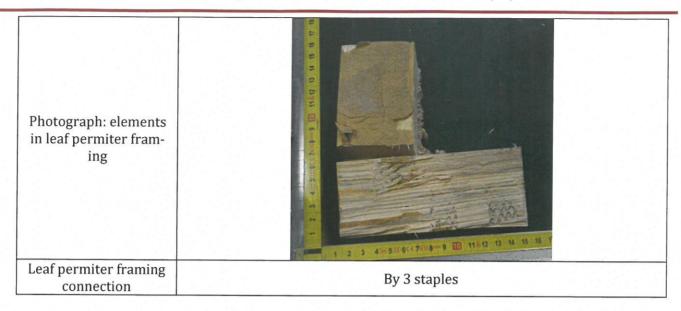
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Photograph: Door leaf view "7D"	1 3 4 3 4 3 5 1 6 C € 7 M 18 8 0300 9 10 1
Door leaf elements description	 Door leaf frame with external cross section dimensions: top rail – 38 x 60 mm, bottom rail – 38 x 60 mm, lock stile – 38 x 60 mm, hinge stile – 38 x 60 mm, made from pine wood, density 485 kg/m³, manufacturer Brodoor. Three beaverboard Sauerland, with thickness 13 mm each VL, density 515 kg/m³. Fireproof MDF thickness 6 mm, density 790-830 kg/m³, supplier Attels R, SIA. Intumescent seal Marvon - Tecnoflame rubber profile 10 x 2 mm.
Type of door leaf ele- ments connection	Glue and staples connections Scheme of staples connections:
Glue usage	PVA D3 glue used evenly on surfaces of core materials, usage 130g/m ² PVA D3 glue used evenly on surfaces of door frame, usage 130g/m ²
Type of bonding con- nection	evenly
Door leaf width [mm]	44
Photograph: Door leaf section "4"	

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2.2.4 Fittings

	Type: NTR 110x30 T ZN, manufacturer: ABLOY, supplier: Fiskostar OU					
Hinges	• 3 pcs per door leaf • Distance from ten of upper hings to ten of door leaf. 00					
milges	 Distance from top of upper hinge to top of door leaf: 98 Distance from bottom of lower hinge to bottom of door leaf: 96 					
	• Distance from top of lower hinge to the middle of intermediate hinge: 758					
	Type: BMH 1000, manufacturer: Beyer Muller GmbH • Operated from both sides by a handle					
Lock	• 1 pcs per door leaf					
	• Distance between latch bottom edge and door leaf bottom edge: 1002					
Lock insert	Type Cilindra 35x35 – nikelis, manufacturer: Razots ES Izplatitajs SIA "Eurolocks"					
Door handle	Type: Nylon-FS-Druckergarnitur, manufacturer: Erich Dieckmann GmbH					
Self-closing devise	Type: Unik3600 AS36459S.PL, manufacturer: TELESCO UCEM Sistemas de Seguridad, S.A.					

A detailed description of the door with the trade name: AF01 is presented in the test reports described in point 3 and in the supplementary information provided by the Manufacturer, attached to these reports.

3. Test reports/extended application reports and test results in suport of the classification3.1 Test reports/extended application reports

Name of laboratory	Test sponsor	Report ref. no	Test standard and date/field of extended aplication standards and date of test	
CERTBUD Sp. z o. o. Testing and Calibration Laboratories ul. Bukowiecka 92, 03-893 Warszawa	SIA "Brodoor" Pils rajons 44, Jekabpils, Latvija, LV-5202	946/SIA- BRODOOR/ 2020-1/S5A/1	PN-EN 1634- 1+A1:2018-03 (EN 1634-1:2014+A1:2018). 23.06.2020	

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3.2 Tested samples

Report ref.	Sampling procedure	Conditioning	Number of samples taken
946/SIA- BRODOOR/ 2020-1/S5A/1	The selection and verification method described in the PN-EN 1634-1+A1:2018-03 (EN 1634-1:2014+A1:2018) standard, point 6.6 in variant b) was used.	The mounting structure was prepared at least 7 days before the installation of the test specimen and kept at a temperature of 10°C to 30°C and relative humidity of 25% to 75% for pre-test conditioning. The test specimen was fitted into the mounting structure 24 hours prior to testing and kept for 24 hours at a temperature of 10°C to 30°C and relative humidity of 25% to 75% for pre-test conditioning until the specimen achieved thermal and moisture content equilibrium.	2 (one for test, one for verification)

3.3 Results

Test method, number and date	Parameter	Results		
	Supporting construction	The test specimen was mounted in a standard supporting structure made from autoclaved cellular concrete of density 600 kg/m³ and 115 mm thickness		
	Integrity	E 30		
	Thermal insulation	EI ₁ 30 EI ₂ 30		
946/SIA-BRODOOR/	Radiation	EW 30		
2020/S5B/1-2	Self-closing	25 cycles		
	Overrun	For E 7 minutes 20 seconds (category "B") For EI ₁ 4 minutes 49 seconds (category "A")		
		For EI ₂ 7 minutes 20 seconds (category "B")		
	effective depth of rebate	8 % (low deflections)		

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with Clause 7 of PN-EN 13501-2:2016-07 (EN 13501-2:2016).

4.2 Classification

The element, Brodoor AF01 is classified according to the example of the following combinations of performance parameters and classes as appropriate.

J	3	E	I	W		t	t	-	M	S	С	IncSlow	sn	ef	r	G	K
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Fire resistance classification: EI₁ 30/EI₂ 30/EW 30/E 30

4.3 Field of application

This classification is valid for the following end use applications according to PN-EN 1634-1+A1:2018-03 (EN 1634-1:2014+A1:2018).

Table 1: Changes specific to direct application of test results.

Parameter	Factor	Stendard section (PN-EN 1364-1)
	Thickness/density of the door panel	13.2.2.1
Changes in door leaf	Density of core material boards	13.2.2.1
Changes in door lear	Decorative finishes - paint	13.2.3.1
	Decorative laminates	13.2.3.2
	Density of timber frame	13.2.2.1
Changes in door frame	Cross-section dimensions of frame (including rebates)	13.2.2.1
	Decorative finishes - paint	13.2.3.1
Duilding handway	Positioning of movement restrictors	13.3.3.2.2
Building hardware	Number of hinges	13.2.5
Gaps	Change	13.3.3.2.5
Eiving	Number of fixings	13.2.4
Fixing	Distance between fixings	13.2.4
Size	Change	13.3

Table 2. Changes specific to direct application

Parameter	Factor	Description of change				
	Thickness/density of the door panel	Increasing of door panel thickness and/or density is permitted provided that the total increase in weight is not grater than 25% (maximal weight: 54.5 kg)				
Changes in door leaf	Density of core material boards	Increasing core material boards density is permitted provided that the total increase in weight is not greater than 25% (maximal weight: 54.5 kg)				
	Decorative finishes - paint	Adding paint to unfinished surfaces of tested specimen door leaf is permitted				
	Decorative laminates	Adding decorative laminates and timber veneers up to 1,5 mm thickness to door faces are permitted				
	Density of timber frame	Increasing of the density of the timber frames (including rebates) is permitted				
Changes in door frame	Cross-section di- mensions of frame (including rebates)	Increasing cross-sectional dimensions is permitted				
	Decorative finishes - paint	Change of paint used for door frame covers is permitted. Adding paint to unfinished surfaces of tested specimen frame is permitted				

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Classification report no. 946/SIA-BRODOOR/2020-1/K/1

Building hardware	Positioning of movement restrictors Number of	Relative positioning of movement restrictors shall remain the same as tested. For smaller doorset size relative positioning of movement restrictors shall remain the same as tested or any change to the distances between them will be limited to the same percentage reduction as the decrease of the test specimen size			
	hinges	The number of hinges may be increased			
Gaps	Change	Maximal value of gap on hinge side: 5.0 mm Maximal value of gap on lock side: 4.0 mm Maximal value of gap on top rail side: 3.5 mm Maximal value of gap on threshold side: 5.0 mm			
Eiving	Number of fixings	Number of fixings per unit length used to attach doorsets to supporting constructions may be same or higher than tested			
Fixing	Distance between fixings	Distance between fixings may be reduced			
Size	Change	Unlimited reductions from the tested specimen are permitted For E and EI ₂ doorsets only size reduction and increase are permitted. Maximal external dimensions of door leaf are: Maximal width: 1016 mm Maximal height: 2242 mm Maximal area: 2.06 m ²			

5 Limitations

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

6 Term of validity 09.04.2024

SIGNED

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APPROVED

Issue 1/2 march 2018 Page 1/16

