



Akrediteeritud
L020

TÜV EESTI OÜ

Vana-Narva mnt. 24B, Maardu, Estonia
tel +372 60 75 918 ; fax +372 63 79 601
e-mail: info@tuv-nord.ee

Testing Laboratory:
Katselabor

Vana-Narva mnt. 24B, Maardu, Estonia
tel +372 63 79 306; faks +372 63 79 601
e-mail: test@tuv-nord.ee



Page 1 of 4

CLASSIFICATION OF FIRE RESISTANCE in accordance with EVS-EN 13501-2:2007 + A1:2009

SPONSOR: LTD „WWL Houses”, Jelgavas str 27, Kalnciems, LV-3016 Latvia
Riga Technical University, Kalku str 1, Riga LV-1658, Latvia
LTD "Trinity Capital", Balta str 3/9, Riga LV-1055, Latvia

MANUFACTURER: LTD "WWL Houses"

ADDRESS : Jelgavas street 27, Kalnciems, Jelgavas region, Latvia, LV-3016

PREPARED BY: TÜV EESTI OÜ

NOTIFIED BODY No: 1526

PRODUCT NAME : Timber frame window in timberframe wall 248,5 mm, EI45

CLASSIFICATION REPORT : TEK-74/12

ISSUE NUMBER :

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Page 2 of 4

1. Introduction.

This classification report defines the resistance to fire classification assigned to element Timber frame fixed window in accordance with the procedures given in EVS-EN 13501-2:2007+A1:2009.

2. Classified product

2.1 General

The element Timber frame fixed window is defined as non-openable window.

2.2 Description

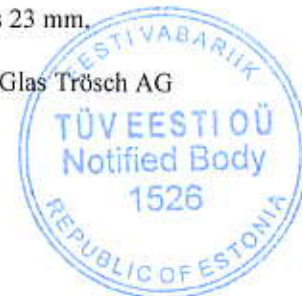
The element Timber frame fixed window is fully described in test report listed in clause 3.1.

Window frame dimensions: Width 1000 mm, height 2100 mm, thickness 92 mm.

Glazing dimensions: Width 866 mm, height 1966 mm, thickness 23 mm.

Glazing type: Fireswiss Foam 60-23 EI60, manufacturer Glas Trösch AG

Frame fixings: Anchors spacing 500 mm.





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

3.1. Test reports and extended application reports

Test Laboratory	Name of sponsor	Test report and date	Test method
TÜV Eesti OÜ	WWL Houses	No. 325-11TPS of 23.01.2012	EN 1634-1:2008 EN 1363-1:1999

3.2. Test results

Test method number, date	Parameter	Results
EN 1364-1:2008	Supporting construction	Timber frame wall with thickness 248 mm
	Fixed window	Internal side towards fire
	Integrity (E)	
	Cotton pad	no ignition
	Gap gauges (cracks or openings in excess of given dimensions)	no failure
	Sustained flaming ¹⁾	No flaming
	Thermal insulation (I)	
	mean temperature rise on the unexposed face of the wall element over 140° C above the initial mean temperature	no failure
	maximum temperature rise on the unexposed side of the wall element over 180° C above the initial mean temperature	In minute 55
	Radiation (W)	
	An element which satisfies the thermal insulation criterion is also deemed to satisfy the W requirement for the same period	According to thermal insulation criterion

Test was stopped at 60 minutes.

¹⁾ Sustained flaming during the 10 seconds or longer.





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Page 4 of 4

4. Classification and field of application

4.1 Reference on classification.

This classification has been carried out in accordance with clause 7 of EVS-EN 13501-2:2007+A1:2009

4.2 Classification.

The element Timber frame fixed window is classified according to the following combination of performance parameters and classes as appropriate.

R	E	I	W		t	t		M	S	C	IncSlow	sn	ef	r
---	45	45	45	--	-	-	--	---	---	-	---	---	-	---

**Fire resistance classifications:
EI45/ EW45**

4.3 Field of direct application.

This classification is valid for the following end use applications:

WWL Houses element Timber frame fixed window (product in scope of EN 1364-1:2008) can be used as a separating element of 45 minutes fire resistance in timber frame wall that has a greater fire resistance. Element has fire resistance ability from internal side according to standard fire exposure conditions.

5. Limitations

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

On behalf and by authority of TÜV Eesti OÜ.

