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## 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 : Draft

ISSUE NUMBER : .....

DATE OF ISSUE : 15.05.2013



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## 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
	<b>Integrity (E)</b>	
	Cotton pad	no ignition
	Gap gauges (cracks or openings in excess of given dimensions)	no failure
	Sustained flaming <sup>1)</sup>	No flaming
	<b>Thermal insulation (I)</b>	
	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
	<b>Radiation (W)</b>	
	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.

<sup>1)</sup> Sustained flaming during the 10 seconds or longer.



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## 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
---	<b>45</b>	<b>45</b>	<b>45</b>	--	-	-	--	---	---	-	---	---	-	---

**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.

Approved by

F. Haas