

**Autorizovaná osoba**  
**MVRR SR SK01**  
**Approved Body No. SK01**

**Notifikovaná osoba č. 1396**  
**Notified Body No. 1396**

**Člen EGOLF**  
**EGOLF Member**

Akreditovaný  
certifikačný orgán  
*Accredited*  
*Product Certification Body*

Akreditovaný inšpekčný orgán  
*Accredited Inspection Body*

Akreditované skúšobné  
laboratórium  
*Accredited Testing Laboratory*

preukazovanie zhody stavebných  
výrobkov  
*conformity attestation of*  
*construction products*

inšpekcie  
vnútropodnikovej kontroly  
*inspection*  
*of factory production control*

skúšky a klasifikácia  
požiarnej odolnosti,  
reakcie na oheň,  
mechanicko- fyzikálnych  
vlastností  
*testing and classification of*  
*fire resistance, reaction to fire,*  
*mechanical and physical*  
*properties*

teoretické hodnotenie požiarnej  
odolnosti výrobkov  
*calculations of fire resistance*

**FIRES, s.r.o**  
**Osloboditeľov 282**  
**059 35 Batizovce**  
**Slovakia**  
**tel.:+421/52/775 22 98**  
**fax:+421/52/788 14 12**

**IČO: 31701043**  
**IČ DPH: SK2020517059**

**Československá obchodná**  
**banka, a.s.**  
**č.ú.: 4006983288/7500**  
**SK13 7500 0000 0040 0698 3288**

S.r.o zapísaná v Obchodnom  
registri Okresného súdu  
v Prešove, vložka č. 2093/P,  
oddiel: Sro



**Pyrochem, s.r.o.**

Staré Grunty 7  
841 04 Bratislava

**YOUR REF**

**RESPONSIBLE**  
project manager

**OUR REF**  
25/06/2012

**BATIZOVCE**  
25.06.2012

### **SUBJECT: Judgement**

By this judgement report with classification we declare the resistance to fire of loadbearing prefabricated wall, which is fully described in test report FIRES-FR-113-12-AUNE. Mentioned test report contains also details about the course of the fire resistance test and its results.

This judgement refers to the wall of the same composition as described in test report FIRES-FR-113-12-AUNS, but without exterior covering.

Description of product construction:

#### **Loadbearing construction of wall**

Timber frame construction is made of spruce timber blocks (60 x 110) mm (width x thickness). Vertical columns are placed in spacing of 685 mm. Horizontal reinforcements are placed between columns, in the mid-height of specimen. Blocks are jointed together by means of couple of screws  $\varnothing$  8 x 160 mm. Front side of columns is covered from interior side by means of fire resistant mastic PYROGUMA (manufacturer: Pyrochem, s.r.o.), 1 mm thick.

#### **Composition of wall:**

Loadbearing construction of wall is covered from interior side by one layer of 18 mm thick OSB boards. Boards are fixed to loadbearing construction by means of steel fasteners 180/50 and wire  $\varnothing$  1,6 placed in spacing of 75 mm. Gaps between boards are sealed by fire resistant mastic PYROGUMA (manufacturer: Pyrochem, s.r.o.); consumption: 100 ml / 1 m of gap length. The surface of board is treated from front interior side by emery grinding (emery paper No. 40) and fire resistant material ADINA (manufacturer: Pyrochem, s.r.o.); consumption 1,5 kg / m<sup>2</sup> without water dilution. The upper layer is composed of fire resistant penetration paint PENATER

**Autorizovaná osoba**  
**MVRR SR SK01**  
**Approved Body No. SK01**

**Notifikovaná osoba č. 1396**  
**Notified Body No. 1396**

**Člen EGOLF**  
**EGOLF Member**

Akreditovaný  
certifikačný orgán  
*Accredited*  
*Product Certification Body*

Akreditovaný inšpekčný orgán  
*Accredited Inspection Body*

Akreditované skúšobné  
laboratórium  
*Accredited Testing Laboratory*

preukazovanie zhody stavebných  
výrobkov  
*conformity attestation of*  
*construction products*

inšpekcie  
vnútropodnikovej kontroly  
*inspection*  
*of factory production control*

skúšky a klasifikácia  
požiarnej odolnosti,  
reakcie na oheň,  
mechanicko- fyzikálnych  
vlastností  
*testing and classification of*  
*fire resistance, reaction to fire,*  
*mechanical and physical*  
*properties*

teoretické hodnotenie požiarnej  
odolnosti výrobkov  
*calculations of fire resistance*

**FIRES, s.r.o**  
**Osloboditeľov 282**  
**059 35 Batizovce**  
**Slovakia**  
**tel.:+421/52/775 22 98**  
**fax:+421/52/788 14 12**

**IČO: 31701043**  
**IČ DPH: SK2020517059**

Československá obchodná  
banka, a.s.  
č.ú.: 4006983288/7500  
SK13 7500 0000 0040 0698 3288

S.r.o zapísaná v Obchodnom  
registri Okresného súdu  
v Prešove, vložka č. 2093/P,  
oddiel: Sro

(manufacturer: Pyrochem, s.r.o.), 50 µm thick. Paint is diluted with water, ratio 3:1. Consumption of diluted paint is 150 g / m<sup>2</sup>. OSB boards are treated from the side of cavity by paint AQUAIZOL wood (manufacturer: Pyrochem, s.r.o.); consumption 2 kg / m<sup>2</sup>.

The criteria were evaluated on the basis of temperatures which were measured by thermocouples placed on the unexposed face of interior board. Limiting state of insulation on this surface was not achieved during 30 minutes. On the basis of this fact it is possible to classify the product, Loadbearing wall which is covered from one side only (according to above stated description), as follows:

## **REI 30.**

This classification is valid only in case if the OSB boards are exposed to fire. This classification is not valid in opposite orientation of product, i.e. from side of loadbearing construction.

Best regards



Ing. Marek Gorlický  
project manager

