Építésügyi Minőségellenőrző Innovációs Nonprofit Kft.

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A testing laboratory accredited by the National Accreditation Body under No. NAT-1-1110/2010.

Project No.: O-51/2011 **Date: 15 December, 2011**

Classification Report

of

the fire protection classification in accordance with
standard MSZ EN 13501-1:2007+A1:2010
of **FuranFlex®-RWV and FuranFlex®-XP chimney lining products**

Sponsor:	**Kompozitor Műanyagipari Fejlesztő Kft.** Vecsés Széchenyi utca 60. 2220
Date of order:	04. 11. 2011.
Subject of order:	Fire protection classification in accordance with the specifications of standard MSZ EN 13501-1:2007+A1:2010 of **FuranFlex®-RWV and FuranFlex®-XP chimney lining products**.

This Classification Report shall be valid till **15 December, 2016**.

This Report consists of 5 numbered pages and - attachments.

Classification Report
Project No.: O-51/2011
Date: 15. 12. 2011.

1. Product description

The complete description of **FuranFlex®-RWV and FuranFlex®-XP** chimney lining products which can be found in the table 1 and in the test Reports that facilitate classification and are listed in subsection 2.1.

Table 1

General description	Chimney lining product
Commercial designation	FuranFlex®-RWV and FuranFlex®-XP
Manufacturer	Kompozitor, Műanyagipari Fejlesztő Kft.
Full thickness	2 - 5 mm
Density	1700 kg/m^3
Mass area	6,8 kg/m^2 (thickness: 4 mm)
Detailed description	Glass fibre reinforced thermosetting synthetic resin, occupational name: „composite”. Compound: 68% mineral materials 32% heatproof and fireproof synthetic resin
Fibre direction/cell direction in the tests	Direction and rate of glass fibres: 30% vertical, 50% horizontal
Fire-retarding data	Not contain
Color	Red or dark brown
Number of layers	Homogeneous, one layer
Other (e.g. data for UV protection, (PCS-MJ/kg-MJ/m^2) etc.)	Organic material content 32% heatproof and fireproof synthetic resin. Tearing stability: 200 N/mm^2
Planning of end use application	Lining product without joints for variant chimneies
Informative description of the manufacturing process	Soft FuranFlex®-RWV or FuranFlex®-XP material is drawn inside the chimney and blow up it with 0,1-0,5 bar vapour. The chimney lining product will be irreversible stabil about 1-4 hours.

1.1. Type of product and its end use

A FuranFlex®-RWV and FuranFlex®-XP products can be used for chimney lining.

1.2. Description of the product

As described in the Report listed in 2.1. and in Table 2.

2. Test reports and test results in support of this classification

2.1. Test reports

Table 2

Name of Laboratory	Name of sponsor	Test reports Nos.	Test method
ÉMI Nonprofit Kft.	Kompozitor Műanyagipari Fejlesztő Kft.	M-676/2/2010	MSZ EN ISO 11925-2:2002 MSZ EN 13823:2002

2.2. Test results

Summary of the test results can be found in Tables 3.

Table 3

Test method and test number	**Technical parameters**	**Number of tests**	**Results**	
			Continuous parameter - mean (m)	**Compliance with parameters (A2 – s2, d0)**
MSZ EN ISO 1182	$\Delta T \leq 50$ °C	5	1,4	Compliance
	$\Delta m \leq 50$ %		2,01	Compliance
	$t_f \leq 20$ sec		0	Compliance
MSZ EN 13823	FIGRA $_{0,2\ MJ}$ (W/S)	3	2,98	Compliance
	FIGRA $_{0,4\ MJ}$ (W/S)		2,98	Compliance
	THR $_{600\ s}$ (MJ)		0,802	Compliance
	SMOGRA (m^2/s^2)		7,33	Compliance
	TSP $_{600\ s}$ (m^2)		52,80	Compliance
	LFS = the edge of the specimen		No	Compliance
	Flaming droplets and/or particles		No	Compliance

The conditioning of the test specimens took place in accordance with the specifications of standard MSZ EN 13238:2002; at a relative humidity of 23 ± 2 °C and 50 ± 5 %, up to reaching a state of permanent mass.

3. Classification and direct field of application

3.1. Reference and direct field of application

This classification has been carried out in accordance with clauses 11.7, 11.9 and 11.10. of MSZ EN 13501-1: 2007+A1:2010.

3.2. Classification

Based on the fire engineering characteristics measured, the FuranFlex®-RWV and FuranFlex®-XP chimney lining products, manufactured by Kompozitor Műanyagipari Fejlesztő Kft. can be put in the following reaction to fire category:

Reaction to fire classification: A2 – s2, d0

3.3. Field of application

This classification valid for the following product parameters:

Mass area:	*6,8 kg/m^2*
Density:	*1700 kg/m^3*

This classification valid for the following end use conditions:

Details of air gaps and substrates:	*without substrate, free standing*

4. Limitations

In case of materials, fixation methods, thicknesses or layers other than those specified in table 1. and clause 3.3 the behaviour of the product when exposed to fire can be influenced in such a way that the classification given in subsection 3.2 becomes invalid.

This Classification Report will also become null and void if the testing methods and standards used for the classification have been changed, or if there has been a change in the manufacturing place, base material or manufacturing process of the product.

"The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 attestation of conformity and CE marking under the Construction Products Directive."

5. Warning

This document does not represent type approval or certification of the product.
A building material may only be put in circulation and use in Hungary if the product has a certificate of conformity [Certificate of Conformity, Supplier's Statement of Conformity, Certificate of Fire Protection Conformity] issued on the basis of the technical specification given in the Joint BM-GKM-KvVM Decree No. 3/2003 (I.25.) [naturalised harmonised standard, European Technical Approval (ETA), Construction Technical Approval (ÉME-CTA)].

Szentendre, 15 December, 2011

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