

Department for Building Physics Fire Laboratory

Ljubljana, 6. 12. 2012

Zavod za gradbeništvo Slovenije

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CLASSIFICATION REPORT

No. P 0337/12-530-5

This report replaces the report No. P 0337/12-530-4

CLASSIFICATION OF FIRE RESISTANCE PERFORMANCE IN ACCORDANCE WITH SIST EN 13501-2:2008+A1:2009

> Horizontal linear joint seals INSU-ROPE, 20 - 180 mm thick

Sponsor:

EZS d.o.o., Brezje pri Grosuplem 10, SI-1290 Grosuplje

Order No:

269/2012 dated 28th of March, 2012

Responsible investigator:

Robert Umek, B.Sc.

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Head of laboratory:

Director:

Assoc. Prof. Dr Andraž Legat

Other accreditations: BUREAU VERITAS (Certificate of Recognition No. SMS.LAB.462/2900/B.0



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1. Introduction:

This classification report defines the resistance to fire classification assigned to linear joints sealed with insulation ropes **INSU-ROPE**, **20 to 180 mm thick**, in accordance with the procedures given in SIST EN 13501-2:2008+A1:2009.

2. Information above the product:

2.1 General:

The insulation ropes made of rock wool INSU-ROPE, 20 to 180 mm thick, prevents spread of fire from room of origin considering resistance to fire performance characteristics stated in Clause 5 and 7.5.9 of SIST EN 13501-2:2008+A1:2009.

2.2 Product description:

The insulation ropes INSU-ROPE, 20 to 180 mm thick, are fully described below.

The insulation ropes are made of rock wool of diameters 20 to 180 mm, density 240±20 kg/m³ with highly dense shield system (glass thread), which are installed within a gap and glued with Promat Kleber K84 glue or other non-combustible inorganic glue resistant to high temperature to both sides of supporting construction.

Following diameters of the rope is required for linear gaps:

Joint gap (mm)	<10	<15	<20	<25	<30	<40	<50	<60	<70	<80	<90
Diameter (mm)	20	25	30	35	40	50	60	70	80	90	100

Joint gap (mm)	<100	<110	<120	<130	<140	<150
Diameter (mm)	120	130	140	150	160	180

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

3.1 Test reports:

Laboratory	Name of sponsor	Report No.	Test method
ZAG Ljubljana	EZS d.o.o.	P 0337/12-530-2	SIST EN 1366-4:2006

3.2 Test results:

Test method	Parameter	Results
SIST EN	Integrity (E):	240 minutes
1366-4:2006	A Committee of the Comm	
	- cracks or openings in excess of given dimensions	no failure
The makeraking	- ignition of cotton pad	240 minutes
delin Editori	- sustained flaming on the unexposed side	240 minutes
Age and busing	Insulation (I)	240 minutes
Termina Termina	- mean temperature rise >140°C	ono failure
	- max. temperature rise >180°C	no failure



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4. Classification and field of application:

4.1 Reference:

This classification has been carried out in accordance with Clause 7.5.9 of SIST EN 13501-2:2008+A1:2009.

4.2 Classification:

The insulation ropes INSU-ROPE, 20 to 180 mm thick are classified according to the following combinations of performance parameters and classes as appropriate. No other classification is allowed.

E	15		30	45	60	90	120	180	240	
EI	15	20	30	45	60	90	120	180	240	

Fire resistance classification:

EI
$$240 - H - X - F - W 10$$
 to 150

4.3 Field of application:

This classification is valid for the insulation ropes INSU-ROPE, 20 to 180 mm thick with the following product variations:

4.3.1 Orientation (according to SIST EN 1366-4:2006):

Tested orientation	Application	
A	A, D, E ^a	

- 4.3.2 Supporting construction (according to SIST EN 1366-4:2006):
 - supporting construction may be concrete, block work or masonry separating elements thickness equal or greater than 200 mm.
- 4.3.3 Seal position (according to SIST EN 1366-4:2006):
 - seal position for linear joints width from 10 to 100 mm should be type D,
 - seal position for linear joints width from 110 to 150 may be types A, B, C or E.

5. Limitations:

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

	Name	Signature	Date
person undertaking classification:	Robert Umek, B.Sc	19	6. 12. 2012
person authorising this report:	Milan Hajduković, B.Sc.	Apola 1/ 8	6. 12. 2012
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