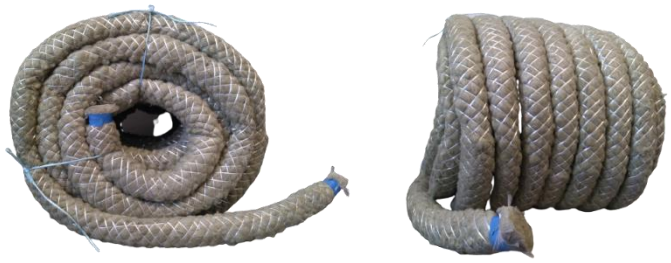
Technical Data sheet

FIRE ROPE



Description

The insulation ropes are made of rock wool, density 240±20 kg/m³, which are installed within a gap of supporting construction or stand-alone as linear seals in supporting construction. In case of fire this insulation solution slows down the spread of fire, fume and toxic gases and provides fire resistance up to 240 minutes.

The diameter of the rope should be 20% wider than the initial joint gap.

Following diameters of the rope is required for linear horizontal gaps:

Joint gap (mm)	<10	11-15	16-20	21-30	31-40	41-50	51-60	61-70	71-80
Diameter (mm)	20	25	30	40	50	60	70	80	90

Joint gap (mm)	81-90	91-100	101-110	111-120	121-130	131-140	141-150
Diameter (mm)	100	120	130	140	150	160	170

Following diameters of the rope is required for linear vertical gaps:

Joint gap (mm)	<10	<15	<20	<25	<30	<40	<50	<60	<70	<80	<90
Diameter (mm)	20	20	30	40	50	60	70	80	100	110	120

Joint gap (mm)	<100	<110	<120	<130
Diameter (mm)	140	150	170	180

INSU-ROPE MINERAL WOOL INSULATION ROPES	
BURN-RETARDANT, FIRE PROTECTION (> 1000 °C/1832 °F)	✓
THERMAL PROTECTION	✓
SOUND PROTECTION	✓
VAPOUR PERMEABILITY	✓
HEALTH CARE	✓
ENVIRONMENT CARE	✓
FLEXIBILITY	✓
HIGH TEMPERATURE STABILITY	✓

Advantages

Mineral wool insulation ropes also contribute to thermal and sound protection.

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Test results – fire resistance

A) Horizontal linear joints

Test method	Parameter	Results
SIST EN 1366-4:2006 (P 0337/12-530-2)	Integrity (E):	240 minutes
	- cracks or openings in excess of given dimensions	no failure
	- ignition of cotton pad	240 minutes
	- sustained flaming on the unexposed side	240 minutes
	Insulation (I)	240 minutes
	- mean temperature rise >140°C	no failure
	- max. temperature rise >180°C	no failure

Test method	Parameter	Results
SIST EN 1366-4:2006 (P 1108/15-530-1)	Integrity (E):	240 minutes
	- cracks or openings in excess of given dimensions	no failure
	- ignition of cotton pad	240 minutes
	- sustained flaming on the unexposed side	240 minutes
	Insulation (I)	240 minutes
	- mean temperature rise >140°C	no failure
	- max. temperature rise >180°C	no failure

B) Vertical linear joints

Test method	Parameter	Results
SIST EN 1366-4:2006 +A1:2010	Integrity (E):	240 minutes
	- cracks or openings in excess of given dimensions	no failure
	- ignition of cotton pad	240 minutes
	- sustained flaming on the unexposed side	240 minutes
	Insulation (I)	240 minutes
	- mean temperature rise >140°C	no failure
	- max. temperature rise >180°C	no failure

Conduct with us for the certificates of performance.

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Suggested applications

- Hospitals
- Schools
- Industrial buildings
- Shopping centres
- Railway stations
- Bus stations
- Garages
- Hotels
- Airport facilities
- Sport facilities