

INSU ROPE

Fire rated linear joint seals rope

TDS Technical Data Sheet



•INTUSEAL®
passive fire protection manufacturer

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→ PRODUCT DESCRIPTION

The **INSU ROPE** fire rated linear joint seals rope is made of mineral wool. The non-flammable structure of the material creates a tight barrier, ensuring the partition tight and insulating up to EI 240.

→ APPLICATION

The **INSU ROPE** is used for linear sealing: horizontal and vertical.

Rigid walls:	The wall made of concrete, cellular concrete, reinforced concrete or masonry construction with minimum density: 700 kg/m ³ . The wall thickness must be minimum 150 mm.
Rigid floors:	The floor made of concrete, cellular concrete, reinforced concrete or masonry construction with minimum density: 700 kg/m ³ . The floor thickness must be minimum 150 mm.



→ AVAILABILITY

Type	Type	Packaging	Art. number
INSU ROPE	12 mm / 30 m	ROLL (30m)	INIR12/30
	20 mm / 30 m	ROLL (30m)	INIR20/30
	30 mm / 30 m	ROLL (30m)	INIR30/30
	40 mm / 30 m	ROLL (30m)	INIR40/30
	50 mm / 25 m	ROLL (25m)	INIR50/25
	60 mm / 25 m	ROLL (25m)	INIR60/25
	70 mm / 20 m	ROLL (20m)	INIR70/20
	80 mm / 20 m	ROLL (20m)	INIR80/20
	90 mm / 18 m	ROLL (18m)	INIR90/18
	100 mm / 10 m	ROLL (10m)	INIR100/10
	120 mm / 2 m	ROLL (2m)	INIR120/2
	150 mm / 2 m	ROLL (2m)	INIR150/2
	170 mm / 2 m	ROLL (2m)	INIR170/2
	180 mm / 2 m	ROLL (2m)	INIR180/2

→ COMPLIANCE

- European Technical Assessment:
ETA – 17/0061 of 24/05/2018
- Declaration of Performance:
1404-CPR-3055/2018
- Certificate of Constancy of Performance
1404-CPR-3055

→ TECHNICAL DATA

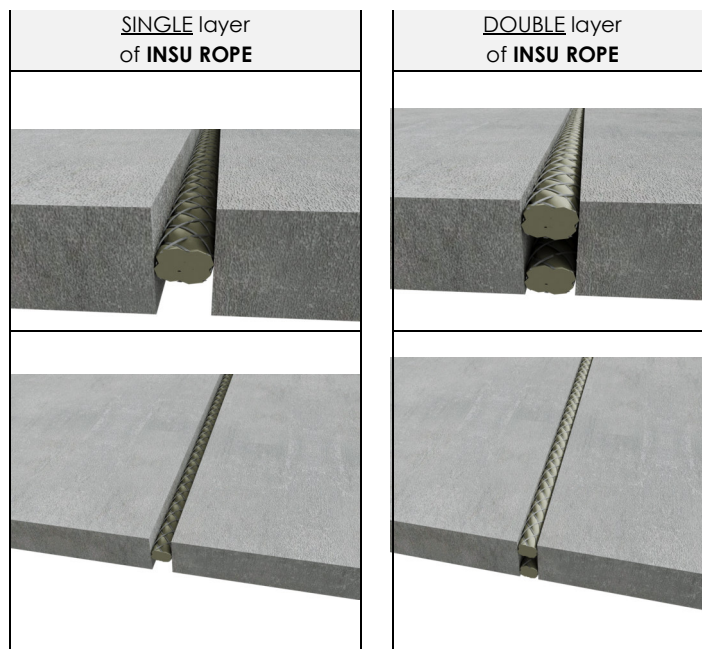
Operating temperature	< 750 °C/ 1382 °F
Melting temperature	> 1000 °C/ 1832 °F
Reaction to fire class	A1
Thermal conductivity	0,035 W/m2 - 0,040 W/m
Heat capacity	840 J/kgK
Sound insulation	Yes
Density	240 kg/m ³

→ TRANSPORT AND STORAGE

Store in dry and cool conditions at a temperature from + 5°C to + 35°C.

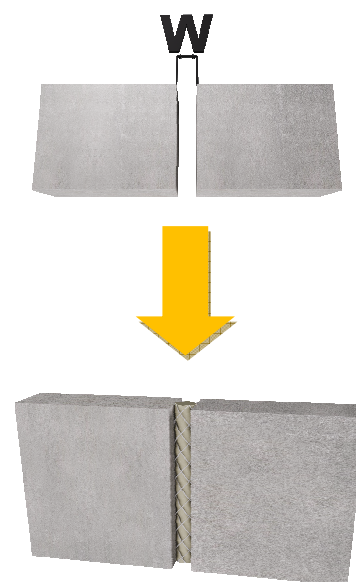
➔ INSTALLATION METHOD

1. Clean the linear gap/hole surface and make sure they are free of dust and other dirt.
2. Select the diameter of **INSU ROPE** according to the availability table and the number.
3. Place the **INSU ROPE** rope in the construction element, flush with the face or inside the element's cross-section.
4. **INSU ROPE** should be laid in one or two layers. At the end of one rope adding another one, place and press another rope butt to the first one.



➔ FIRE RESITANCE CLASSIFIACION

Type of INSU ROPE	Nominal rope diameter [mm]	Expansion movement up to 7,5%		Expansion movement up to 20%	
		Width of the gap "w" after compression [mm]	Rope compression stage [%]	Width of the gap "w" after compression [mm]	Rope compression stage [%]
INSU-ROPE ø 12	12	10,0	16,67	-	-
INSU-ROPE ø 20	20	16,7	16,67	10,0	25,0
INSU-ROPE ø 30	30	25,0	16,67	22,5	25,0
INSU-ROPE ø 40	40	33,3	16,67	30,0	25,0
INSU-ROPE ø 50	50	41,7	16,67	37,5	25,0
INSU-ROPE ø 60	60	50,0	16,67	45,0	25,0
INSU-ROPE ø 70	70	58,3	16,67	52,5	25,0
INSU-ROPE ø 80	80	66,7	16,67	60,0	25,0
INSU-ROPE ø 90	90	75,0	16,67	67,5	25,0
INSU-ROPE ø 100	100	83,3	16,67	75,0	25,0
INSU-ROPE ø 120	120	100,0	16,67	90,0	25,0
INSU-ROPE ø 150	150	125,0	16,67	112,5	25,0
INSU-ROPE ø 170	170	141,7	16,67	127,5	25,0
INSU-ROPE ø 180	180	150,0	16,67	135,0	25,0



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Type of application	Width of the gap "w" [mm]	Numbers of INSU ROPE layers	Fire resistance classification
B	10 - 150	1 layer	EI240 -V-X-F-W10-150
B	10 – 100	2 layers	EI 240 -V-M020-F-W10-100
B	110 – 130	1 layer	EI 240 -V-M020-F-W110-130
A, C	10 – 100	2 layers	EI 240 - H-X-F-W10-100
A, C	110 - 150	1 layer	EI 240 - H-X-F-W110-150

Symbol legend:

H	Linear joint seals: horizontal supporting structure
V	Linear joint seals: vertical supporting structure
X	Linear joint seals: expansion joint movement up to 7,5%
M020	Linear joint seals: expansion joint movement up to 20 %
F	Linear joint seal type: made on construction site
W	Linear joint maximum width

