



MIRELON® EXPANSION STRIP

PEF - EN 14313 - ST(+) 90 – ST(-) -40 - WS 005 - CL 5 - PH 6,5

Thermoinsulating strip from polyethylene foam with closed cell structure

MIRELON® EXPANSION STRIP is thermal insulation product intended for use as thermal insulation and for permanent elastic filling of expansion joints.

MIRELON® EXPANSION STRIP is characterized by the ability to eliminate the negative effects of thermal expansion of building materials, reduces the noise transmission from floor to the perimeter walls and prevents the formation of a thermal bridge between the floor and the perimeter wall. It is an ideal material for new buildings and adaptations due to these reasons.

MISAPPLICATION:

- Thermal insulation of low and high pressure steam distribution systems
- Outdoor installation without surface protection against weathering and UV radiation
- Installation in places where the ambient temperature exceeds 90°C

Technical data:

- non-laminated design
- strip thickness: 3, 5, 8 a 10 mm (according to EN 14313:2009+A1:2013)
- strip width: 80 to 200 mm (according to EN 14313:2009+A1:2013)
- strip length: 50 m (according to EN 14313:2009+A1:2013)

Color: gray-black, white

MIRELON® EXPANSION STRIP – physical properties

Basic characteristics		Properties				Harmonized technical specification
Thermal resistance	Coefficient of thermal conductivity W/m.K	°C	λ_D	°C	λ_D	EN 14313:2009+A1:2013
		-20	0,039	20	0,049	
		0	0,044	50	0,057	
		10	0,046	90	0,069	
	Dimensions and tolerations					
- strip thickness	3 - 5 mm	+/- 1 mm	6 - 10 mm	+/- 1,5 mm		
- strip width	§ +/- 1%					
- strip length	L +/- 1,5%					
Reaction on fire	Reaction on fire	F-s3, d2				
Thermal resistance stability in aging/degradation	Coefficient of thermal conductivity W/m.K	see table above				
	Dimensions and tolerations	see table above				
	Dimension stability	3%				
	Characteristic stability	it does not change				
	Lowest operating temperature	-40°C				
	Highest operating temperature	90°C				
Thermal resistance stability at high temperature	Characteristic stability	it does not change				
	Dimension stability	3%				
	Highest operating temperature	90°C				

NPD – no property has been determined



Basic characteristics		Properties	Harmonized technical specification
Stability of reaction on fire at high temperature	Characteristic stability	it does not change	EN 14313:2009+A1:2013
Stability of reaction on fire in aging/degradation	Characteristic stability	it does not change	
Compressive strength	-	NPD	
Water permeability	Water absorption	WS 005 ($W_p \leq 0,05$)	
Water vapor permeability	Water absorption	NPD	
	Diffusion resistance	NPD	
Release of corrosive substances	Trace amount of soluble ions and pH	CL 5 (≤ 5 mg/kg), PH 6,5	
Sound absorption index	Structure sound transmission	NPD	
	Sound absorption	NPD	
Release of hazardous substances into internal environment	Release of hazardous substances	NPD	
Burning by incandescent glow	Burning by incandescent glow	NPD	

NPD – no property has been determined

The technical datasheet was drawn up on the basis of the protocols of the notified bodies: no. 1023 (Institut pro testování a certifikaci a.s., třída Tomáše Bati 299, Louky, 763 02 Zlín) a no. 1390 (Centrum stavebního inženýrství a.s., ul. Pražská 16, 102 00 Praha 10).

Approved 20.3.2020

			
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POV 8/2020/EN			
EN 14313+A1			
MIRELON® EXPANSION STRIP			
Thermal insulation products for use as thermal insulation for equipment, buildings and industrial installation			
ThIBEII			
Coefficient of thermal conductivity W/m.K			
°C	λ_0	°C	λ_0
-20	0,039	20	0,049
0	0,044	50	0,057
10	0,046	90	0,069
reaction on fire	F-s3, d2		
strip thickness	see table below		
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strip thickness	3 mm	8 mm	
	5 mm	10 mm	