



MIRELON® EXPANSION STRIP with LDPE foil

12 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 with LDPE foil is thermal insulation product intended for use as thermal insulation and for permanent elastic filling of expansion joints.

MIRELON® EXPANSION STRIP with LDPE foil 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. The special strip design prevents escaping of cement water from the concrete into the perimeter walls or open areas. 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:

- strip thickness: 3, 5, 8 a 10 mm (according to EN 14313:2009+A1:2013)
- strip width: 80 až 200 mm (according to EN 14313:2009+A1:2013)
- strip length: 50 m (according to EN 14313:2009+A1:2013)
- strip is provided with a release liner along the entire length of the strip

Color: gray-black, white

MIRELON® EXPANSION STRIP with LDPE foil – 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) and no. 1390 (Centrum stavebního inženýrství a.s., ul. Pražská 16, 102 00 Praha 10).

Approved 26. 5. 2022

			
1023, 1390			
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EN 14313+A1			
MIRELON® EXPANSION STRIP with LDPE foil 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	

