



Characteristics:

Moniflex is an environmental friendly product fully complying with REACH and made of natural cellulose polymers. The product is constructed of Crosswise glued, pleated cellulose foil with a small amount of fire retardant added. Moniflex contains no loose fibers and is therefore easy to cut and handle.

Water retention:

< 2%, typical content at 23° C (50% R.H.)
Due to its construction, Moniflex drains off condensed water and maintains its insulation properties even if affected by high humidity.

Fire retardant properties:

MONIFLEX is a fire retardant/self-extinguishing material

Thermal insulation:

0,0541 W/(m*K) at 10 °C (EN 12667, replacing DIN 52612).

Dimension (standard): Max. 950 mm x 3000 mm
(Tolerances = +/- 1 %)

Density/volume weight: 13 kg/m³

Thickness:
10 mm (+/- 2 mm)
20 mm (+/- 2 mm)
30 mm (+/- 2 mm)
40 mm (+/- 3 mm)
50 mm (+/- 3 mm)
60 mm (+/- 3 mm)

Certificates

R1 Plain Moniflex HL3 (R1) (10 mm) HL3 (R1) (20 mm)	R1 Laminated Moniflex – one side with aluminum foil HL3 (R1) (10-60 mm)	CEN/TS 45545-2:2009
Flammability	S4 (10 mm) S3 (20-60 mm)	DIN 5510-2:2009
Dripping	ST2 (10-60 mm)	
Smoke Class	SR2 (10-60 mm)	
Smoke toxicity	FED (15) = <0,01(10-60), FED (30) = 0,01 (10-60 mm)	
F1, M1	10-60 mm	NF F 16 101/102/STM-S-001 Index C
Smoke and toxicity	F1	
Reaction to fire	M1	
Class	1B (10-60 mm)	UNI CEI 11170-01-02-03
UNI 8457	I	
UNI 9174	Ib	
Approved for Transit and Passenger Rail (10-60 mm)		NFPA 130:2010

ASTM E662:2009 ASTM E162:2009 PN-K-02512:2000 UIC Code 564-2	Optical smoke density Ds 4 min 24,2 (< 100) Spread of flame Is 1,8 (\leq 25) P2, D1, R1 (10-60 mm) A, C, A (10-60 mm)	
GOST 30402-96 GOST 12.1.044-89 (p.2.14) GOST 12.1.044-89 (p.2.16) GOST 30244-94 GOST 12.1.044-89 (p.4.3)	B2 D2 T2 G2 Hardly combustible	Russian Federation Certificate of conformity

Acoustics:

According to ISO 354:1985 (DIN 52212) and ISO 140:978

	<u>Absorption</u>	<u>Insulation</u>
	aw	dB
Moniflex 50 mm	0,4	5
Moniflex 60 mm	0,4	4

Expected life time:

Moniflex has an expected life time of up to 30 years in normal use.