



## Technical Specification

### MONIFLEX - your environmental friendly choice of condensation handling insulation

**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.

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

**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)

**Density/Volume weight:** 13 kg/m<sup>3</sup>

**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.

Certificates are available on [www.isoflex.se](http://www.isoflex.se)

#### CEN/TS 45545-2:2013

R1:  
10-20 mm HL3  
30-60 mm HL3 covered on one side with aluminum foil  
R10:  
10-60 mm HL3

#### DIN 5510-2:2009

Flammability	S4	(10-40 mm)
	S3	(50-60 mm)
Dripping	ST2	(10-60 mm)
Smoke Class	SR2	(10-60 mm)
Smoke toxicity	FED (15)	<0,01(10-60mm)
	FED (30)	<0,01(10-60mm)



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**NF F 16 101/102/STM-S-001 Index C**

F1, M1 20-60 mm  
Smoke and toxicity F1  
Reaction to fire M1

**NFPA 130:2014**

Approved for Transit and Passenger Rail, 10-60 mm  
ASTM E662:2014 Optical smoke density  $D_s$  4 min 24,2 (< 100)  
ASTM E162:2014 Spread of flame  $I_s$  1,8 ( $\leq$  25)

**PN-K-02512:2000** P2, D1, R1 (10-60 mm)

**UIC Code 564-2** A, C, A (10-60 mm)

**Russian Federation Certificate of conformity**

GOST 30402-96 B2  
GOST 12.1.044-89 (p.2.14) D2  
GOST 12.1.044-89 (p.2.16) T2  
GOST 30244-94 G2  
GOST 12.1.044-89 (p.4.3) Hardly combustible

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

**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 lifetime of up to 30 years in normal use.

**Handling and storage of Moniflex.**

Moniflex should be stored in a dry place in the original cardboard boxes on pallets. These instructions are important to protect the Moniflex from dust and damage, so that the technical characteristics of the material are completely retained.



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