Technical Data Sheet

Protecflam Industries
Edition 03/03/2026

Fibroflam® MDF

Wood fiber

Description

Fire-retardant wood and wood-based panels.

Technical specifications

PROPERTIES	REFERENCE TEST	THICKNESSES (IN MM)		
		3/4	>4/6	>6/7
Density	EN 323	890/880 kg/m³	870/850 kg/m³	840/830 kg/m³
Internal cohesion	EN 319	0,65 N/mm²	0,65 N/mm²	0,65 N/mm²
Flexural strength	EN 310	23 N/mm²	23 N/mm²	23 N/mm²
Flexural modulus of elasticity	EN 310	2 700 N/mm²	2 700 N/mm²	2 700 N/mm²
Swelling (after immersion in water for 24 hours)	EN 317	35%	30%	17%
Dimensional stability (length/width)	EN 318	0,5%	0,5%	0,5%
Dimensional stability (thickness)	EN 318	7%	7%	7%
Surface traction	EN 311	1,2 N/mm²	1,2 N/mm²	1,2 N/mm²
Surface absorption (2 sides)	EN 382-1	> 150 mm	> 150 mm	> 150 mm
Moisture content upon leaving the factory	EN 322	7+/-3%	7+/-3%	7+/-3%
Formaldehyde emission	EN 717-1	≤ 0,05 ppm	≤ 0,05 ppm	≤ 0,05 ppm
Sound absorption coefficient (A) (250 to 500 Hz)	EN 13984:2004+A1:2015	0,10 α	0,10 α	0,10 α
Sound absorption coefficient (A) (1,000 to 2,000 Hz)	EN 13984:2004+A1:2015	0,20 α	0,20 α	0,20 α
Thermal conductivity	EN 13984:2004+A1:2015	0,16 w/(m-k)	0,16 w/(m-k)	0,16 w/(m-k)
Thermal conductivity Airborne sound insulation	EN 13986:2004+A1:2015	19 db	22 db	24 db
Water vapor resistance factor dry cup	EN 13986:2004+A1:2015	31 µ	32 µ	33 µ
Water vapor resistance factor for wet wood chips	EN 13986:2004+A1:2015	20 µ	21 µ	22 µ

protecflam

Protecflam Industries
31, rue de l'Étoile du Matin
44600 Saint-Nazaire (FR)
www.protecflam.fr
contact@protecflam.com
+33 (0)2 40 90 10 80

PROPERTIES	REFERENCE TEST	THICKNESSES (IN MM)		
		3/4	>4/6	>6/7
Biological stability	EN 335	1	1	1
Pentachlorophénol Content (PCP)	EN 13986:2004+A1:2015	< 5 ppm	< 5 ppm	< 5 ppm

Fire reaction

Classified B-s2,d0 according to EN 13501-1

Formaldehyde emission

Product with very low formaldehyde emissions E05 (≤ 0.05 ppm EN 717-1) and compliant with the conditions of Class E1 defined in European Standard EN 622-1.

Storage

Store in a dry place at temperatures between +5°C and +23°C.
Preferably store in a well-ventilated area.

Measured values

All technical values stated in this product data sheet are based on laboratory tests.
Circumstances beyond our control may lead to deviations from the actual values.

protecflam

Protecflam Industries
31, rue de l'Étoile du Matin
44600 Saint-Nazaire (FR)
www.protecflam.fr
contact@protecflam.com
+33 (0)2 40 90 10 80