

Frame extension elements for wooden and wood-metal windows

Sound insulation

Chipboard	Symbol	Test method	Unit	Value
Classification	P5 in acc. with EN 312, boards for load-bearing purposes in damp environments			
Emission category	E1			
Certification	PEFC-certified			
Gross density	ρ_a		kg/m ³	~715–740
Thermal conductivity	λ_D		W/mK	0.140
Fire behaviour		EN 13501-1		D-s2, d0
Thickness tolerance within and between the boards		EN 324-1	mm	±0.3
Board moisture		EN 322	%	5–13
Formaldehyde potential category E1		EN 120	mg/100 g	Max. 8.0
Thickness swelling (after 24 hr)		EN 317	%	10.0
Bending strength		EN 310	N/mm ²	16.0
Bending elasticity modulus		EN 310	N/mm ²	2400
Transverse tensile strength		EN 319	N/mm ²	0.45
Transverse tensile strength after boil test		EN 1087-1	N/mm ²	0.14
Water vapour permeability (density: 600 kg/m ³)		EN 13986	μ , damp	15
			μ , dry	50
Degree of sound absorption			250–500 Hz	0.10
			1000–2000 Hz	0.25
Swelling and shrinkage in panel plane (Change of board moisture: 1%)			%	0.02–0.05

MDF	Symbol	Test method	Unit	Value
Classification	Medium-density fibreboard for use in damp environments, low-swelling, water-resistant			
Formaldehyde emission		EN 120	Class	E1
Fire behaviour		EN 13501-1	Class	C-s2, d0
Raw density		EN 323	kg/m ³	750
Thermal conductivity			W/mK	0.100
Transverse tensile strength		EN 319	N/mm ²	1.35
Surface soundness		EN 311	N/mm ³	2.0
Bending strength		EN 310	N/mm ⁴	22.0
Elasticity modulus		EN 310	N/mm ⁵	2300

Glass wool	Symbol	Test method	Unit	Value
Gross density	ρ_a		kg/m ³	~22
Thermal conductivity	λ_D	DIN EN 12667	W/mK	0.035
Fire behaviour		DIN EN 13501-1		6q.3/A1
Dimensional stability		DIN 4108-10		DS (T1)
Water vapour diffusion		DIN EN 12086		MU1
Thickness tolerance category		DIN EN 13162		T2
Application temperature			°C	≤250
Airflow resistivity	kPa · s/m ²	DIN EN 29053		>5 (AF5)

Heavy bitumen foil	Symbol	Test method	Unit	Value
Gross density	ρ_a		kg/m ³	10
Maximum temperature resistance			°C	160
Resistance to cold			°C	-25

Wood	Symbol	Test method	Unit	Value
Type	Spruce			
Certification	PEFC-certified			
Thermal conductivity	λ_D		W/mK	0.140