

Plinth elements for wooden and wood-metal balcony doors

Cement-bonded chipboard	Symbol	Test method	Unit	Value
Gross density	ρ_a		kg/m ³	1200
Thermal conductivity	λ_D	EN 13986, table 11	W/mK	0.230
Fire behaviour		EN 13501-1		A2-s1, d0
Bending strength		0743T027	N/mm ²	≥9.0
Bending elasticity modulus (non-load-bearing)		0743T027	N/mm ²	≥4000
Tensile strength		0743T027	N/mm ²	≥0.5
Tensile strength per cycles		0743T027 0743T026	N/mm ²	≤0.3
Durability (swelling)		0743T026	%	Max. 1.5
Durability per cycles		0743T026	%	Max. 1.5
Structural properties – strength (elasticity modulus)		0743T027 EN 789/EN 1058	N/mm ²	≥4500
Sound absorption		EN 13986, table 10	250–500 Hz 1000–2000 Hz	0.10 0.30
Steam permeability		EN 13986, table 9	μ , damp μ , dry	30 50
Formaldehyde reduction		EN 13896, supplement B	Class	E1

Intensely expanded rigid polystyrene foam (EPS perimeter)	Symbol	Test method	Unit	Value
Gross density	ρ_a	1602	kg/m ³	30
Thermal conductivity	λ_D	279	W/(m·K)	0.033
Specific thermal capacity	c		Wh/(kg·K)	0.39
Water vapour diffusion resistance factor	μ	12086		70
Thermal length expansion coefficient			K ⁻¹	5·7·10 ⁻⁵
Water absorption after long-term submersion	W_{lt}	12087	%	≥ 3
Water absorption through diffusion	W_{dv}	12088	%	≥ 5
Fire behaviour classification in acc. with EN		13501-1		E
Fire behaviour group		VKF		RF3 (cr)
Compression stress at 10% compression	σ_{10}	826	kPa ²⁾	≥ 150
Top application limit temperature, non-weight-bearing			°C	75
Cell content				Air

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