

## Frame extension elements for wooden and wood-metal lifting sliding doors Standard

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	$\rho_a$		kg/m <sup>3</sup>	~715–740
Thermal conductivity	$\lambda_D$		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 hrs)		EN 317	%	10.0
Bending strength		EN 310	N/mm <sup>2</sup>	16.0
Bending elasticity modulus		EN 310	N/mm <sup>2</sup>	2400
Transverse tensile strength		EN 319	N/mm <sup>2</sup>	0.45
Transverse tensile strength after boil test		EN 1087-1	N/mm <sup>2</sup>	0.14
Water vapour permeability (density: 600 kg/m <sup>3</sup> )		EN 13986	$\mu$ , damp	15
			$\mu$ , 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 <sup>3</sup>	750
Thermal conductivity			W/mK	0.100
Transverse tensile strength		EN 319	N/mm <sup>2</sup>	1.35
Surface soundness		EN 311	N/mm <sup>3</sup>	2.0
Bending strength		EN 310	N/mm <sup>4</sup>	22.0
Elasticity modulus		EN 310	N/mm <sup>5</sup>	2300

Expanded rigid polystyrene foam (EPS)	Symbol	Test method	Unit	Value
Gross density	$\rho_a$	1602	kg/m <sup>3</sup>	15
Thermal conductivity	$\lambda_D$	279	W/(m·K)	0.038
Specific thermal capacity	c		Wh/(kg·K)	0.39
Water vapour diffusion resistance factor	$\mu$	12086		40
Fire behaviour classification in acc. with EN		13501-1		E
Fire behaviour classification in acc. with VKF		VKF	BKZ	5,1
Fire behaviour group		VKF		RF2 (cr)
Compression stress at 10% compression	$\sigma_{10}$	826	kPa <sup>3)</sup>	≥ 60
Creep behaviour under pressure (50 years, compression 2%)	$\sigma_c$	1606	kPa <sup>3)</sup>	12
Top application limit temperature, non-weight-bearing			°C	75
Cell content				Air

Plywood	Symbol	Test method	Unit	Value
Gross density	$\rho_a$	EN 323	kg/m <sup>3</sup>	~420
Thermal conductivity	$\lambda_D$		W/mK	0.130
Emission category		UNI EN 717/2	mg HCHO/m <sup>2</sup> h	E1
Bending strength (longitudinal)		EN 310	N/mm <sup>2</sup>	24
Bending strength (lateral)		EN 310	N/mm <sup>2</sup>	30
Elasticity modulus (longitudinal)		EN 310	N/mm <sup>2</sup>	2800
Elasticity modulus (lateral)		EN 310	N/mm <sup>2</sup>	3800