

## Frame extension elements for aluminium lifting sliding doors

### 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	$\rho_a$		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

Plywood	Symbol	Test method	Unit	Value
Classification				AW100
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>	28
Bending strength (lateral)		EN 310	N/mm <sup>2</sup>	32
Elasticity modulus (longitudinal)		EN 310	N/mm <sup>2</sup>	3600
Elasticity modulus (lateral)		EN 310	N/mm <sup>2</sup>	3800

Glass wool	Symbol	Test method	Unit	Value
Gross density	$\rho_a$		kg/m <sup>3</sup>	~22
Thermal conductivity	$\lambda_D$	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 <sup>2</sup>	DIN EN 29053		>5b (AF5)

Heavy bitumen foil	Symbol	Test method	Unit	Value
Gross density	$\rho_a$		kg/m <sup>3</sup>	10
Maximum temperature resistance			°C	160
Resistance to cold			°C	-25

Plywood (edge band)	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