

## Substructure elements for wooden and wood-metal lifting sliding doors

Polyurethane	Symbol	Test method	Unit	Value
Material	CFC-, HCFC- and formaldehyde-free polyurethane product			
Resistance to ageing	Mildew- and rot-resistant			
Gross density	$\rho_a$		kg/m <sup>3</sup>	550 ±50
Thermal conductivity	$\lambda_D$	EN 12667	W/mK	0.076
Construction material class		DIN 4102, part 1		B2
Fire behaviour		DIN EN 13501-1		Class E
Bending strength			N/mm <sup>2</sup>	Approx. 7.8
Elastic modulus			N/mm <sup>2</sup>	Approx. 500
Screw retention			N	Approx. 650
Thickness swelling (after 24 hrs immersion in water)			%	Approx. 1
Water absorption (after 24 hrs immersion in water)			%	Approx. 5
Length expansion due to moisture			mm/m	±2
Length expansion coefficient in the range -20 °C to +60 °C				Approx. 28.375·10 <sup>-6</sup> /K
Water vapour diffusion resistance factor	$\mu$			Approx. 12
Residual moisture			%	Approx. 2–4
Thickness tolerance, unsanded			mm	±0.4
Thickness tolerance, sanded			mm	±0.2
Applicable in temperature range			°C	-50 to +100

Plywood	Symbol	Test method	Unit	Value
Classification				IW67
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>	25
Bending strength (lateral)		EN 310	N/mm <sup>2</sup>	26
Elasticity modulus (longitudinal)		EN 310	N/mm <sup>2</sup>	3100
Elasticity modulus (lateral)		EN 310	N/mm <sup>2</sup>	3800

Intensely expanded polystyrene rigid foam (EPS perimeter)	Symbol	Test method	Unit	Value
Gross density	$\rho_a$	1602	kg/m <sup>3</sup>	30
Thermal conductivity	$\lambda_D$	279	W/(mK)	0.033
Specific thermal capacity	c		Wh/(kg·K)	0.39
Water vapour diffusion resistance factor	$\mu$	12086		70
Thermal length expansion coefficient			K <sup>-1</sup>	5–7·10 <sup>-5</sup>
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	$\sigma_{10}$	826	kPa <sup>2)</sup>	≥150
Top application limit temperature, non-weight-bearing			°C	75
Cell content				Air