

## Type UBS and UBM dry subfloors

Cement-bonded chipboard	Symbol	Test method	Unit	Value
Gross density	$\rho_a$		kg/m <sup>3</sup>	1200
Thermal conductivity	$\lambda_D$	EN 13986, table 11	W/mK	0.230
Fire behaviour		EN 13501-1		A2-s1, d0
Bending strength		0743T027	N/mm <sup>2</sup>	≥9.0
Bending elasticity modulus (not load-bearing)		0743T027	N/mm <sup>2</sup>	≥4000
Tensile strength		0743T027	N/mm <sup>2</sup>	≥0.5
Tensile strength per cycles		0743T027 0743T026	N/mm <sup>2</sup>	≤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 <sup>2</sup>	≥4500
Sound absorption		EN 13986, table 10	250–500 Hz 1000–2000 Hz	0.10 0.30
Steam permeability		EN 13986, table 9	$\mu$ , damp $\mu$ , dry	30 50
Formaldehyde reduction		EN 13896, supplement B	Class	E1

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

Rock wool	Symbol	Test method	Unit	Value
Gross density	$\rho_a$	EN 1602	kg/m <sup>3</sup>	160
Thermal conductivity	$\lambda_D$	EN 12667	W/mK	0.045
Fire behaviour		EN 13501-1		A1
Compression stress at 10% compression	$\sigma_{10}$	EN 826	kPa	100
Tensile strength, vertical to panel plane	$\sigma_{ml}$	EN 1607	kPa	25
Water absorption, short-term	Wp	EN 1609	kg/m <sup>2</sup>	≤1
Water absorption, long-term	Wp	EN 12087	kg/m <sup>2</sup>	≤3
Melting point		EN 4102-17	°C	>1000
Maximum application temperature			°C	250