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KRONOPLY OSB	Technical Information	

KRONOPLY OSB/3 - Characteristic values acc. to EN 13986

		Strand direction					
		Major axis			Minor axis		
		Thickness range [mm]					
d		6 - 10	>10 - 18	>18 - 25	6 - 10	>10 - 18	>18 - 25
Strenght values [N/mm²]							
Stresses on board							
Bending	f _{m,k}	18.0	16.4	14.8	9.0	8.2	7.4
Compression	f _{c,90,k}	10.0			10.0		
Shear	f _{v,k}	1.0			1.0		
Plate loading							
Bending	f _{m,k}	9.9	9.4	9.0	7.2	7.0	6.8
Tensile force	f _{t,k}	9.9	9.4	9.0	7.2	7.0	6.8
Compression	f _{c,k}	15.9	15.4	14.8	12.9	12.7	12.4
Shear	f _{v,k}	6.8			6.8		
Stiffness values [N/mm²]							
Stresses on board							
Bending modulus of elasticity	E _{mean} ^a	4930			1980		
Shear modulus	G _{mean} ^a	50			50		
Plate loading							
Bending modulus of elasticity	E _{mean} ^a	3800			3000		
Shear modulus	G _{mean} ^a	1080			1080		
^a The characteristic stiffness values E ₀₅ and G ₀₅ are calculated as follows: E ₀₅ = 0.85 x E _{mean} and G ₀₅ = 0.85 x E _{mean}							
General and building physics values							
Bulk density acc. to EN 323	m	600 kg/m³					
Max. deviations in board thickness		± 0.8 mm (ContiFinish®) ± 0.3 mm (sanded)					
Internal bond acc. to EN 319	zul σ _{Zy}	0.18	0.15	0.13	0.18	0.15	0.13
Thermal conductivity acc. to EN 13986	λ	0.13 W/mK					
Water vapour permeability value	μ	200 (moist) / 300 (dry)					
Waste code	EWC	030105					
Thickness swelling acc. to EN 317		≤ 15 %					
Coefficient of expansion for 1% change in wood moisture content		0.03 %					
Emissions class		E1 – 100 % formaldehyde-free binders (< 0.03 ppm)					
Environmental Product Declaration as per ISO 14025		EPD-KRO-2009111-D					
Service classes acc. to EN 1995-1-1		1 + 2					
Reaction to fire acc. to EN 13501-1		D-s2, d0					
Declaration of Performance No. acc. to CPR		KDE OSB/3 CPR 2013 001 UK					