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KRONOPLY OSB	Technical Information	

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

	d	Strand direction					
		Major axis			Minor axis		
		Thickness range [mm]					
		6 - 10	>10 - 18	>18 - 25	6 - 10	>10 - 18	>18 - 25
<b>Strenght values [N/mm<sup>2</sup>]</b>							
<b>Stresses on board</b>							
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		
<b>Plate loading</b>							
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		
<b>Stiffness values [N/mm<sup>2</sup>]</b>							
<b>Stresses on board</b>							
Bending modulus of elasticity	$E_{mean}^a$	4930			1980		
Shear modulus	$G_{mean}^a$	50			50		
<b>Plate loading</b>							
Bending modulus of elasticity	$E_{mean}^a$	3800			3000		
Shear modulus	$G_{mean}^a$	1080			1080		
<sup>a</sup> The characteristic stiffness values $E_{05}$ and $G_{05}$ are calculated as follows: $E_{05} = 0.85 \times E_{mean}$ and $G_{05} = 0.85 \times E_{mean}$							
<b>General and building physics values</b>							
Bulk density acc. to EN 323	m	600 kg/m <sup>3</sup>					
Max. deviations in board thickness		± 0.8 mm (ContiFinish <sup>®</sup> ) ± 0.3 mm (sanded)					
Internal bond acc. to EN 319	zul $\sigma_{zy}$	0.18	0.15	0.13	0.18	0.15	0.13
Thermal conductivity acc. to EN 13986	$\lambda$	0.13 W/mK					
Water vapour permeability value	$\mu$	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					
Utilisation classes acc. to EN 1995-1-1		1 + 2					
Reaction to fire performance class acc. to EN 13501-1		D-s2, d0					
CE certificate no.		1034 – CPD – 1291/1/ 2012					