

SWISS KRONO OSB/3 EN 300 - Characteristic values acc. to EN 13986

For non load bearing, load bearing and stiffening applications in dry and humid conditions

Properties		Strand direction							
		Major axis				Minor axis			
Thickness range [mm]	d	6 - 10	>10 - 18	>18 - 25	>25 - 40	6 - 10	>10 - 18	>18 - 25	>25 - 40
Strength values [N/mm²]									
Stresses on board									
Bending	f _{m,k}	18,0	16,4	14,8	NPD	9,0	8,2	7,4	NPD
Compression	f _{c,90,k}	10,0			NPD	10,0			NPD
Shear	f _{v,k}	1,0			NPD	1,0			NPD
Plate loading									
Bending	f _{m,k}	9,9	9,4	9,0	NPD	7,2	7,0	6,8	NPD
Tensile force	f _{t,k}	9,9	9,4	9,0	NPD	7,2	7,0	6,8	NPD
Compression	f _{c,k}	15,9	15,4	14,8	NPD	12,9	12,7	12,4	NPD
Shear	f _{v,k}	6,8			NPD	6,8			NPD
Stiffness values [N/mm²]									
Stresses on board									
Bending modulus of elasticity	E _m ^a	4930			NPD	1980			NPD
Shear modulus	G _r ^a	50			NPD	50			NPD
Plate loading									
Tensile force modulus of elasticity	E _t ^a	3800			NPD	3000			NPD
Compression modulus of elasticity	E _c ^a	3800			NPD	3000			NPD
Shear modulus	G _v ^a	1080			NPD	1080			NPD
^a The characteristic stiffness values E ₀₅ and G ₀₅ are calculated as follows: E ₀₅ = 0,85 x E und G ₀₅ = 0,85 x G									
General and building physics values									
Bulk density per thickness according to EN 323 [kg/m³]									
6 mm	8 – 10 mm	11 – 15 mm			18 – 20 mm		22 – 40 mm		
640 ± 10 %	630 ± 10 %	620 ± 10 %			610 ± 10 %		600 ± 10 %		
Tolerance in length and width		± 3 mm							
Perpendicularity acc. to EN 324-2		2 mm/m							
Max. deviations in board thickness		± 0,8 mm (ContiFinish®) ± 0,3 mm (sanded)							
Thermal conductivity acc. to EN 13986	λ	0,13 W/mK							
Thickness swelling acc. to EN 317		≤ 15%							
Water vapour resistance	S _d	≥ 2,0 m (from 12 to 40 mm) - dry							
Emissions class		E1 (100% formaldehyde-free binders)							
Waste code	EAK-Code	03 01 05							
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		SKHU_OS/3_CPR_007							

NPD: No Performance Determined