SWISS KRONO OSB/3 EN300 - Characteristic values acc. to EN 13986

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

		Strand direction					
		Major axis			Minor axis		
		Thickness range [mm]					
	d	6 - 10	>10 - 18	>18 - 25	6 - 10	>10 - 18	>18 - 25
Strength 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_m [a]	4930			1980		
Shear modulus	G_r [a]	50			50		
Plate loading							
Tensile force modulus of elasticity	E_t [a]	3800			3000		
Compression modulus of elasticity	E_c [a]	3800			3000		
Shear modulus	G_v [a]	1080			1080		
[a] The characteristic stiffness values E_{05} and G_{05} are calculated as follows: E_{05} = 0.85 x E and G_{05} = 0.85 x G							
General and building physics values							
Bulk density acc. to EN 323	m	600kg/m³					
Max. deviations in board thickness		± 0.8mm (ContiFinish®) ± 0.3mm (sanded)					
Tolerance in length and width		± 3mm					
Perpendicularity acc. to EN 324-2		2mm/m					
Thermal conductivity acc. to **EN** 13986	λ	0.13W/mK					
Water vapour resistance	sd	≥ 2.0m (from 12 to 25mm) - dry					
Waste code		03 01 05					
Air tightness acc. to EN 12114 at 50 Pa		0.12[m³/m²h]					
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 (< 0.03ppm)					
VOC-emission / DIBt-Certificate: G-160-18-0001		Compliance with the Health Protection Requirements for Building Structures in acc. with Annex 8 of the German Model Administrative Regulation on Technical Construction Requirements (MVVTB 2017/1)					
Environmental Product Declaration as per ISO 14025 an EN 15804+A1		EPD-KRO-20200203-IBD1-EN					
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		SKDE_OSB-3_CPR_2022_057					