

Preliminary Technical Datasheet*

Year of issue		2017						
Version		Preliminary Version 07-2017						
Product		BANOVA® PLUS / DIGITAL						
Wood species core		Ochroma lagopus Sw. (Balsa)						
Wood species face		Schizolobium parahyba (Vell.) Blake						
Reference standard	EN 13986	Technical class EN 636-1, EN 636-2						
Emission classification	EN 717-2	E1, CARB 2 exempt NAF (no added formaldehyde)						
Fire classification	DIN EN 13501-1	E, d0 (Certificate: 2013 B-4676/01.1)						
Thickness [mm]		12	15	18	25	30	40	50
Number of plies [pce]		5	5	5	7	7	9	11
Panel weight [kg/m²]		3.0	3.5	4.5	5.1	6.0	8.0	10.0
Panel density [kg/m³]	EN 323	250	230	250	205	200	200	200
Bending strength - MOR [N/mm²]	EN 310							
along the grain, average		16.5	16.1	18.6	12.2	9.8	12.3	n.a.
<i>Minimum (5%-quantile)</i>		13.2	13.4	14.6	9.4	6.4	11.7	n.a.
across the grain, average		9.5	10.1	12.4	12.0	13.0	11.1	n.a.
<i>Minimum (5%-quantile)</i>		4.7	6.6	11.3	9.6	11.9	10.0	n.a.
Bending modulus - MOE [N/mm²]	EN 310							
along the grain, average		2500	2600	3000	1900	1800	2000	n.a.
<i>Minimum (5%-quantile)</i>		1700	2200	2300	1700	1200	1700	n.a.
across the grain, average		900	1000	1300	1800	2100	1700	n.a.
<i>Minimum (5%-quantile)</i>		500	600	1100	1200	2000	1700	n.a.
Natural durability	DIN EN 350-2	Class 5, not durable						
Treatment permeability	DIN EN 350-2	Class 1, good permeability						
Bonding quality	EN 314	Class 3, water boil proof (WBP)						
Thermal conductivity, (λ) [W/(m*K)]	EN 12664	0.067						
Thickness tolerance total [mm]	EN 324	11.5 - 12.5	14.5 - 15.5	17.5 - 18.5	24.4 - 25.6	29.3 - 30.7	39.2 - 40.8	49.1 - 50.9
Thickness tolerance within one panel [mm]	EN 324	+/- 0.3	+/- 0.3	+/- 0.3	+/- 0.3	+/- 0.4	+/- 0.4	+/- 0.4
Length tolerance [mm]	EN 315 / EN 324	+/-3.5						
Width tolerance [mm]	EN 315 / EN 324	+/-3.5						
Squareness against right angle [mm/m]	EN 315 / EN 324	1						
Straightness of edges [mm/m]	EN 315 / EN 324	1						
Density tolerance of full panels [kg/m ³]		+/-30						
Moisture content ex works [%]	DIN EN 322	6-12%						
<p>The data provided gives approximate values for the nominal density. Due to density variations these values can be lower than indicated above. Minimum values to calculate sandwich constructions can be provided upon request. The information contained herein is believed to be correct and to correspond to the latest state of scientific and technical knowledge. However, no warranty is made, either expressed or implied, regarding its accuracy or the results to be obtained from the use of such information. No statement is intended or should be construed as a recommendation to infringe any existing patent.</p>								

*The preliminary version presents some technical values, that have not yet been documented by testing.