

TECHNOLOGICAL CHARACTERISTICS

Dimensional tolerances for all thickness specifications

Propriety	Norm EN 312:2003	Values set by Berneck
Length (mm)	+/- 5,0	+/- 2,0
Width (mm)	+/- 5,0	+/- 2,0
Squareness (mm/m)	Maximum 2,0	Maximum 2,0
Edge (mm/m)	≤ 1,5	≤ 1,5
Thickness (mm): Between boards On the same board	+/- 0,3	+/- 0,2
	+ / - 0,2	+ / - 0,1

Physical-Mechanical Properties

Test	Unit	Test Method	Values set by Norm EN 312:2003	Values set by Berneck
Density	Kg/m ³	EN 323	551 a 750 Kg/m ³	Thickness(mm) Minimum* Average** 8 680 700 10 670 690 12 660 670 15 640 650 18 630 640 20 625 640 25 615 625 28 610 620
Outside Layer Density	Kg/m ³	-	-	> 950
Internal Bond	Kgf/cm ²	EN 319	Thickness(mm) Minimum from 8 to 12 4,0 from 15 to 20 3,5 from 22 to 25 3,0 28 2,5	Thickness(mm) Minimum* Average** from 8 to 12 5,0 6,0 from 15 to 20 4,5 5,5 from 22 to 25 3,5 4,5 28 3,5 4,5
Bending Strength	Kgf/cm ²	EN 310	Thickness(mm) Minimum from 8 to 12 130 from 15 to 20 130 from 22 to 25 115 28 100	Thickness(mm) Minimum* Average** from 8 to 12 135 160 from 15 to 20 130 145 from 22 to 25 115 135 28 110 125
Surface Soundness	Kgf/cm ²	EN 311	Minimum 8	Minimum 12,0* Average 14,5**
Swelling	%	EN 317	Maximum 8	Average 6** Maximum 8*
Moisture Content	%	EN 322	5 to 13	6 to 10
Formaldehyde Emission Class E2	mg Formaldehyde /100g oven dry board	EN 120	> 8 < 30	>8 <24

E1 Emission Class (< 8,0 mg formaldehyde) may be carried out upon request.

* The specified minimum and maximum values correspond to the medium value of the material tested with EN norms.

**The specified medium values correspond to the medium obtained from a lot tested as NBR 5429.

Berneck S.A.

Rua Valério Sobânia, 500 – CEP 83706-530 – Araucária – PR – Brasil

Fone: +55(41) 2109-3700 – Fax: +55(41) 2109-3739

berneck@berneck.com.br - www.berneck.com.br

NUMBER OF BOARDS PER BUNDLES

MDP Natural

Density Kg/m3	Thickness (mm)	Width (m)	Length (m)	Boards/Bundle	Bundles/Load	M3/Load	Weight/Load (Kg)
685	10	1,85	2,75	60	12	36,630	25.091,55
665	12	1,85	2,75	52	12	38,095	25.333,31
645	15	1,85	2,75	44	12	40,293	25.988,99
635	18	1,85	2,75	36	12	39,560	25.120,85
620	25	1,85	2,75	26	12	39,683	24.603,15
615	28	1,85	2,75	24	12	41,026	25.230,74

MDP FF and Super Laca

Density Kg/m3	Thickness (mm)	Width (m)	Length (m)	Boards/Bundle	Bundles/Load	M3/Load	Weight/Load (Kg)
736	10	1,85	2,75	50	14	35,613	26.210,80
701	12	1,85	2,75	50	12	36,630	25.677,63
690	15	1,85	2,75	42	12	38,462	26.538,44
665	18	1,85	2,75	35	12	38,462	25.576,90
649	25	1,85	2,75	26	12	39,683	25.753,94
639	28	1,85	2,75	24	12	41,026	26.215,36

MDP BP

Density Kg/m3	Thickness (mm)	Width (m)	Length (m)	Boards/Bundle	Bundles/Load	M3/Load	Weight/Load (Kg)
765	10	1,85	2,75	56	12	34,188	26.153,82
736	12	1,85	2,75	48	12	35,165	25.881,29
707	15	1,85	2,75	40	12	36,630	25.897,41
691	18	1,85	2,75	34	12	37,363	25.817,56
669	25	1,85	2,75	25	12	38,156	25.526,53
661	28	1,85	2,75	23	12	39,316	25.988,01