

CERTIFICATE OF QUALITY

CQ.: 009

REV.: 002

MAY 10TH, 2017

The parameters indicated in this Certificate of Quality refer to values specified in NBR 15.316-2:2014. The tests results performed by BERNECK, according to standard procedures and methodologies, are in compliance and exceed the specifications listed below.

Properties	Units	Thickness (mm)						
		HDF			MDF			
		1,8 to 2,5	> 2,5 to 4,0	> 4,0 to 6,0	> 6,0 to 9,0	> 9,0 to 12,0	> 12,0 to 19,0	> 19,0 to 30,0
Thickness	mm	± 0,2			± 0,2	± 0,3		
Length and Width (Maximum)	mm	± 5,0						
Squareness (Maximum)	mm/m	≤ 2,0						
Average Density - Variation	%	± 7						
Internal Bond (Minimum)	N/mm ²	0,70	0,70	0,70	0,80	0,80	0,75	0,75
Modulus of Rupture - MOR (Minimum)	N/mm ²	27	27	27	27	26	24	22
Modulus of Elasticity - MOE (Minimum)	N/mm ²	2.700	2.700	2.700	2.700	2.500	2.400	2.300
24 Hour Thickness Swell (Maximum)	%	35	30	18	12	10	8	7
Internal Bond after Cyclic Test (Minimum)	N/mm ²	0,35	0,35	0,35	0,30	0,25	0,20	0,15
Internal Bond after Boling Water Test (Minimum)	N/mm ²	0,20	0,20	0,20	0,15	0,15	0,12	0,12
Thickness Swell after Cyclic Test (Maximum)	%	50	40	25	19	16	15	15
Residual Moisture Content	%	4 a 11						
Formaldehyde Emissions – Class E2	mg/100g	> 8 ≤ 30						

Note: The HDF PLUS and the MDF PLUS are produced to “resist moisture indoors” such as kitchens, bathrooms and laundries and to use in areas with high relative air humidity. Therefore, this products should not be used in external environments or have direct contact with water (the sheets are not water proof).

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