

Technical Specification	CQ.: 012	REV.: 003	February 24th, 2022				
The parameters indicated in this Certificate of Quality refer to values specified in EN 312:2010 - P2 type. 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)					
		> 6 to 13	> 13 to 20	> 20 to 25	> 20 to 32	> 32 to 40	> 40
Thickness	mm	± 0,3					
Length and Width (Maximum)	mm	± 5,0					
Squareness (Maximum)	mm/m	≤ 2,0					
Average Density - Variation	%	± 10					
Density	kg/m ³	630 ± 20	610 ± 20	580 ± 20	570 ± 20	570 ± 20	540 ± 20
Internal Bond (Minimum)	N/mm ²	0,40	0,35	0,30	0,25	0,20	0,20
Surface Soundness (Minimum)	N/mm ²	0,8	0,8	0,8	0,8	0,8	0,8
Modulus of Rupture - MOR (Minimum)	N/mm ²	11,0	11,0	10,5	9,5	8,5	7,0
Modulus of Elasticity - MOE (Minimum)	N/mm ²	1.800	1.600	1.500	1.350	1.200	1.050
Residual Moisture Content	%	5 to 13					
Perforator value – Class E 1	mg/100g	< 8					

Prepared by: Soraia Mazur | Quality and Development Supervisor

Approved by: Mario Fabiano Borin | Quality and Development Manager

Contact Information: Telephone number: (+55) 41 2109-1629 | e-mail: mborin@berneck.com.br