

Product Technical Data Sheet
MDF MOISTURE & TERMITE RESISTANT RUC (MR50)



Medium-density fiberboard panel for wet conditions

With double-protection, RUC from Guararapes is especially indicated for moist spaces, such as bathrooms, laundry rooms, and water closets, and residential or commercial projects in coastal and mountain areas. RUC exhibits excellent results for the manufacture of various items of furniture, including machined parts, special cuts, and rounded edges.

The homogeneous nature of RUC also provides outstanding performance in painting processes. The greenish coloring of RUC is the result of a pigment that serves only as its international identification as a water-resistant product (EN 622-1).

RUC (MR50) meets the criteria required for the MR50 / grade 220 or grade 130, depending on thickness, designation (ANSI A208.2-2022). It passes the 24-hour submersion test (MR10) and 6 cycle accelerated aging test (MR30).

5-year termite resistance warranty.

Manufacturer:

Guararapes Painéis S.A. MDF Caçador, SC, Brazil

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RUC (MR50) from Guararapes meets the following specifications:

	Analyses	Unit	Test Method	Thickness			
				9,5 mm 3/8"	12,7 mm 1/2"	16 mm 5/8"	19 mm 3/4"
Metric System	Thickness*	mm	ANSI A208.2-2022	± 0.005			
	Length and Width (Maximum)	mm/m	ANSI A208.2-2022	± 0.080			
	Squareness (Maximum)	mm/m	ANSI A208.2-2022	≤ 0.036			
	Linear Expansion	%	ANSI A208.2-2022	≤ 0,33%			
	Average Density (Maximum)	Kg/m ³	ANSI A208.2-2022	755	725	710	700
	Average Density (Minimum)	Kg/m ³	ANSI A208.2-2022	725	695	680	670
	Internal bonding (Minimum)	N/mm ²	ANSI A208.2-2022	0,70	0,75		
	Thickness Swelling 24 h (Maximum)	%	ANSI A208.2-2022	10	8		
	Residual Moisture Content	%	ANSI A208.2-2022	≤ 9.0			
	ScrewHolding - Face	N/mm ²	ANSI A208.2-2022	NA		1,53	
ScrewHolding - Edge	N/mm ²	ANSI A208.2-2022	NA		1,22		

*Other dimensions on request.

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Metric System	Analyses	Units	Test Method	Thickness			
				9,5 mm	12,7 mm	16 mm	19 mm
				3/8"	1/2"	5/8"	3/4"
				Grade: 220		Grade: 130	
Maximum Thickness Swell	polegadas	ASTM 1037-12	0,087	0,065	-		
	%	ASTM 1037-12	-	-	11%		
Internal bond	N/mm ²	ASTM 1037-12	0,54				
Bending strength	N/mm ²	ASTM 1037-12	28,9	21,6			
Modulus of elasticity in bending	N/mm ²	ASTM 1037-12	-	2.160			

Imperial System	Analyses	Unit	Test Method	Thickness			
				9,5 mm	12,7 mm	16 mm	19 mm
				3/8"	1/2"	5/8"	3/4"
				Grade: 220		Grade: 130	
Thickness*	Inch	ANSI A208.2-2022	± 0.005				
Length and Width (Maximum)	Inch	ANSI A208.2-2022	± 0.080				
Squareness (Maximum)	Inch/Foot	ANSI A208.2-2022	≤ 0.036				
Linear Expansion	%	ANSI A208.2-2022	≤ 0,33%				
Average Density (Maximum)	lbs/ft ³	ANSI A208.2-2022	47	45	44	44	
Average Density (Minimum)	lbs/ft ³	ANSI A208.2-2022	45	43	42	42	
Internal bonding (Minimum)	psi	ANSI A208.2-2022	101	108	108	108	
Thickness Swelling 24 h (Maximum)	%	ANSI A208.2-2022	10	8	8	8	
Residual Moisture Content	%	ANSI A208.2-2022	≤ 9.0				
Screw Holding - Face	pounds	ANSI A208.2-2022	NA	222			
Screw Holding - Edge	pounds	ANSI A208.2-2022	NA	NA	177		
*Other dimensions on request.							

Imperial System	Analyses	Units	Test Method	Thickness			
				9,5 mm	12,7 mm	16 mm	19 mm
				3/8"	1/2"	5/8"	3/4"
				Grade: 220		Grade: 130	
Maximum Thickness Swell	inch	ASTM 1037-12	0,087	0,065	-		
	%	ASTM 1037-12	-	-	11%		
Internal bond	psi	ASTM 1037-12	78				
Bending strength	psi	ASTM 1037-12	4.192	3.130			
Modulus of elasticity in bending	psi	ASTM 1037-12	-	313.000			

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Analyses	Units	Test Method	Thickness	
			≤ 8 mm	> 8 mm
Formaldehyde Emissions - Resin Class CARB II	ppm	ASTM D6007-2	≤ 0.13	≤ 0.11

Characteristics



MDF-H and HDF-H (ANSI A208.2-2022)



Moisture & Termite resistant



EPA TSCA Title VI certified. Complies with CARB 2 ATCM 93120 and CEPA SOR/2021-148

Applications

- Interior decoration
- Furniture production
- Mouldings & profiles

Recommendations for full efficiency

Guararapes' RUC technology does not make the MDF waterproof. For that reason, we always recommend applying edge banding on all sides of the panel and check for any infiltrations or termite proliferation before installing the furniture.

Certifications



Forest Stewardship Council



CARB 2 Certificate



Guararapes is certified by CPA MILL 393 (www.compositepanel.org)