

Declaration of Performance / Product technical data sheet

RUC – Moisture and Termite Resistant E1 MDF



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, as well as in 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).

5 YEARS TERMITE RESISTANCE WARRANTY.

Manufacturer:

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

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RUC MDF from Guararapes meets the following specifications:

Metric System	Analyses	Unit	Tolerance	Standard	Limits															
					(2.750 x 1.850) (2.750 x 2.135) (2.440 x 1.850) (2.440 x 1.220) (2.440 x 2.135)															
	Standard Panel Sizes*	mmXmm	± 5,0	-																
	Thickness	mm	± 0,3	EN 324-1	2,5	3	4	5	5,5 a 6	9	10	12	13 a 14	15 a 17	18 a 19	20 a 22	23 a 30	40 a 45		
	Squareness	mm/m	Maximum	EN 324-2	≤ 2,0															
	Straightness	mm/m	Maximum	EN 324-2	≤ 1,5															
	Average Density	Kg/m³	Minimum	EN 323	830	830	820	820	790	725	725	695	695	680	670	670	660	630		
			Maximum		900	900	890	890	830	755	755	725	725	710	700	700	690	670		
	Internal Bonding (IB)	N/mm²	Minimum	EN 319	0,70				0,80				0,75				0,70			
	Internal Bonding (IB) - Cyclic Test	N/mm²	Minimum	EN 319	0,35				0,30	0,25		0,20		0,15		0,10				
	Modulus of Rupture (MOR)	N/mm²	Minimum	EN 310	27				26				24		22		17			
	Modulus of Elasticity (MOE)	N/mm²	Minimum	EN 310	2.700				2.500				2.400		2.300		2.200			
	Moisture Content	%	-	EN 322	4 a 11															
	Thickness Swelling (24 hrs)	%	Maximum	EN 317	35	30		18		12	10		8		7					
	Swelling 24 hours after cyclic test	%	Maximum	EN 317	50	40		25		19	16		15							
	Formaldehyde content	mg/100g	Maximum	EN 120	MDF (Uncoated): Class E1 ≤ 8 mg/100g															

*Other dimensions on request

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Imperial System	Analyses	Unit	Tolerance	Standard	Limits																	
		Standard Panel Sizes*	mmXmm	± 5,0	-	(2.750 x 1.850) (2.750 x 2.135) (2.440 x 1.850) (2.440 x 1.220) (2.440 x 2.135)																
	Thickness	mm	± 0,3	EN 324-1	2,5	3	4	5	5,5 a 6	9	10	12	13 a 14	15 a 17	18 a 19	20 a 22	23 a 30	40 a 45				
	Squareness	mm/m	Maximum	EN 324-2	≤ 2,0																	
	Straightness	mm/m	Maximum	EN 324-2	≤ 1,5																	
	Average Density	lbs/ft³	Minimum	EN 323	52	52	51	51	49	45	45	43	43	42	42	42	41	39				
			Máximo		56	56	56	56	52	47	47	45	45	44	44	44	43	42				
	Internal Bonding (IB)	psi	Minimum	EN 319	102					116					109					102		
	Internal Bonding (IB) - Cyclic Test	psi	Minimum	EN 319	51					44					36					29	22	15
	Modulus of Rupture (MOR)	psi	Minimum	EN 310	3.916					3.771					3.481					3.191	2.466	
	Modulus of Elasticity (MOE)	psi	Minimum	EN 310	391.602					362.594					348.091					333.587	319.083	
	Moisture Content	%	-	EN 322	4 a 11																	
	Thickness Swelling (24 hrs)	%	Maximum	EN 317	35	30		18		12	10		8			7						
	Swelling 24 hours after cyclic test	%	Maximum	EN 317	50	40		25		19	16		15									
	Formaldehyde content	mg / 100g	Maximum	EN 120	MDF (Uncoated): Class E1 ≤ 8 mg/100g																	
*Other dimensions on request																						

Characteristics



MDF and HDF (EN 120) – (EN 310) – (EN 317) – (EN 322) – (EN 323) – (EN 324-1) – (EN 324-2)



Moisture & Termite resistant

Applications

Interior decoration
Furniture production
Mouldings & millwork

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



The mark of
responsible forestry
FSC® C041303

BRASIL **EPD**®

