

//Product Specification Sheet

RUC (MR-MDF) / Moisture and Termite Resistant Product



MDF – Medium Density Fiberboard for humid conditions

With its double protection, the RUC MDF from Guararapes is optimal for furniture in kitchens, bathrooms, and laundry rooms, on top of high-moisture locations. RUC MDF exhibits excellent results for the manufacture of various items of furniture, including machined parts, special cuts, and rounded edges.

The homogeneous nature of this MDF product also provides outstanding performance in painting processes. The greenish coloring of RUC MDF is due to an international identification convention for water-resistant MDF (EN 622-1).

Guaranteed 5-year resistance to termites.

MDF RUC by Guararapes meets the following standards:

General properties of MDF (EN 662-1:2003)

PROPERTY	TEST METHOD	UNIT	SPECIFICATION
Thickness Tolerance	EN 324-1	mm	± 0.2
Length & width	EN 324-1	mm/m	± 3.5
Squareness tolerance	EN 324-2	mm/m	1
Edge straightness tolerance	EN 324-2	mm/m	1.5
Tolerance on mean density within a board	EN 323	%	± 7%
Formaldehyde emission - Perforator	EN ISO 12460-5	mg/100g	≤ 8
Moisture content	EN 322	%	4 to 11

Specific Properties (EN 622-5:2009)

PROPERTY	TEST METHOD	UNIT	SPECIFICATION				
			3	6	12	15	18
Average density	EN 323	Kg/m ³	≥ 800	≥ 800	≥ 700	≥ 700	≥ 690
Internal bonding	EN 319	N/mm ²	0.7	0.7	0.8	0.75	0.75
Internal bonding after cyclic	EN 319	N/mm ²	0.35	0.35	0.25	0.20	0.20
Modulus of Rupture (MOR)	EN 310	N/mm ²	27	27	26	24	24
Modulus of Elasticity (MOE)	EN 310	N/mm ²	2700	2700	2500	2400	2400
Thickness Swelling (24 h)	EN 317	%	30	18	10	8	8
Thickness Swelling after cyclic	EN 317	%	40	25	16	15	15

Recommendations for total 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. It is also important to check for infiltrations and termite proliferations before installing the furniture.

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