

# PARICÁ

PLYWOOD

*Concept and characteristics of a new alternative*



**ABIMCI**



# ABIMCI

The Brazilian Association For Mechanically Processed Timber, in a joint action with their associated companies, manufacturers Paricá plywood, fulfilling its institutional duty to **inform and offer** the buyer market and consumer solutions and opportunities with wood products that represents, presents the catalog of Paricá plywood that aims to supply the market with product information, its environmental and economic sustainability, its competitive advantages, the extent of their use and applicability and its technical details, for a better understanding and product knowledge and the consequent increase of its use.

As a new supply solution of tropical plywood for the market, from planted forest, Paricá plywood is an innovative alternative for various uses and applications,

and comes towards one of the main demands of society: the consumption of sustainable products and environmentally friendly. Noting the importance of owing standardized products and full knowledge of the market, scenario that generates a better understanding by we all towards to quality products, the legal origin of wood, its possible forms of use and utilization and its sustainability, this catalog shows the origin of forest species, the sustainable business side, its characteristics, producing regions and, finally, main products, applicability and use, competitive advantages, technical information such as quality and wood panels classification, and major suppliers.

With the knowledge of these refer-



ences, the consuming market may understand and have a better use this product, as a current and future opportunity for the use of plywood from tropical timber reforestation.

In addition to Abimci's institutional role, which operates in several directions and axes always in advocacy and trade promotion of Brazilian timber industry, the entity is also coordinator of the Brazilian Timber Com-

mittee ABNT - Brazilian Association of Technical Standards (Associação Brasileira de Normas Técnicas), the CB-31, and one of its main lines of action and principles, its the standardization of wood products aligning the interests of producers and consumers.

# The PARICÁ



It is the most cultivated native forest species in the Country, generating jobs and income through its planting and also attracting small producers, who achieves economic results many times higher, when compared to other traditional agricultural activities.

Forests planted with Paricá occupies a total of 90,000 ha, spread between the states of Pará, Maranhão and Tocantins. The main region of planting and Paricá plywood production of the Brazil focuses in the north, mainly in Pará and Maranhão states, and being the main producing counties: Paragominas, Dom Eliseu, Ulianópolis, Rondon do Pará, Abel Figueiredo among others. Already in southern Brazil, companies receiving veneer sheets of Paricá and also producing plywood are mainly located in Paraná state, in regions as Imbituva, União

da Vitória, Bituruna, among others.

The best growth and survival conditions of Paricá plantings occurs in conditions of warm weather and high humidity, as typical in Northern Region, with high rainfall and without many climate variations. The MAI - Mean Annual Increment - for Paricá, when properly conducted, can reach 25m<sup>3</sup> / ha / year (cubic meters per hectare per year) with clear cut between 5 and 7 years.

## *Species Characteristics*

The Paricá (*Schizolobium Amazonicum*) presents good form factor. The bark is gray (clear shade) and may reach 20-30 meters high and up to 1 meter diameter.

Its wood has a white-light yellow color, smooth surface, which allows a silky finish in all produced materials with it.

## *Sustainability*

The timber industry is of great importance for local economies, as it contributes with job creation and income for the population.

Therefore, the concern still remains in the disorderly manner of use of forest resources that still occurs in some microregions, thus preventing the wood extraction of native forests. For this reason, timber industries are investing in homogeneous plantations or consortiums.

This is where the Paricá enters at scene, as with the increase of the planted area, producers, reforestation and other stakeholders, are providing a major change in timber production profile and, consequently, in the use of forest.

The process becomes sustainable, since the raw material used by industries comes from planted forests (reforestation), reducing the deforestation of native forests.

Thus, besides the recovering of changed areas, we will have conservation the Amazonian Rainforest, which contributes significantly to sustainability of the timber activity.



# The PARICÁ PLYWOOD

## *Characteristics and Benefits*

The Paricá wood is considered mild (0.30 g/cm<sup>3</sup>), coloring predominantly clear and is indicated for various uses. Because of the small taper of the logs, the species also has good potential for sawmills.

The main product derived from this species is **PLYWOOD** that has the following characteristics and advantages:

Due to its low density, Paricá doesn't need to be heated to be turned round, so its clear tone provides at the end of the manufacturing process of plywood, a product with great finish and high quality.

Besides the plywood, other products can be made with Paricá raw material such as:

The main sectors that use the Paricá plywood are:

- Lightness and resistance;
- Easy workability: its wood provides easiness of cutting the wood panels, allowing a broad applicability and varied uses;
- Color uniformity.

- Furniture industry;
- Construction;
- Packaging.

- Rotary cut veneers;
- Doors and components;
- Concrete form;
- Veneer coating for flooring and liners;
- Frames;
- Finishes;
- Power generation, among others.

# CLASSIFICATION OF PARICÁ PLYWOOD

	Panel Grade	Description and Quality for faces and Core	Bonding Types	Approximate weight (m <sup>3</sup> )
100% Paricá	<b>QUALITY A / A</b> Wood-based panel 100% in Paricá	<ul style="list-style-type: none"> <li>• Face and back of white veneers without amendments</li> <li>• Core veneers 100% Paricá</li> <li>• Wood-based panel technically Immunized</li> </ul>	MR or WBP	380 - 410 Kg/m <sup>3</sup>
	<b>QUALITY A / B</b> Wood-based panel 100% in Paricá	<ul style="list-style-type: none"> <li>• Face and back of white veneers without amendments</li> <li>• Core allowed amendments and small mass corrections</li> <li>• Core veneers 100% Paricá</li> <li>• Face technically immunized</li> </ul>	MR or WBP	380 - 410 Kg/m <sup>3</sup>
	<b>QUALITY B / B</b> Wood-based panel 100% in Paricá	<ul style="list-style-type: none"> <li>• Face and back allowed amendments and small mass corrections</li> <li>• Face veneers 100% Paricá</li> <li>• Face technically immunized</li> </ul>	MR or WBP	380 - 410 Kg/m <sup>3</sup>
Mixed Composition	<b>QUALITY A1 / A1</b> Wood-based panel with face and back with Paricá, Core with Pine or Eucalyptus	<ul style="list-style-type: none"> <li>• Face and back of white veneers without amendments</li> <li>• Mixed core veneers (Pine or Eucalyptus)</li> <li>• Wood-based panel technically immunized</li> </ul>	MR or WBP	450 - 480 Kg/m <sup>3</sup>
	<b>QUALITY A1 / B1</b> Wood-based panel with face and back with Paricá, core with Pine or Eucalyptus	<ul style="list-style-type: none"> <li>• Face of white veneers without amendments</li> <li>• Face back allowed amendments and small mass corrections</li> <li>• Mixed core veneers (Pine or Eucalyptus)</li> <li>• Face technically immunized</li> </ul>	MR or WBP	450 - 480 Kg/m <sup>3</sup>
	<b>QUALITY B1 / B1</b> Wood-based panel with face and back with Paricá, cover with Pine or Eucalyptus	<ul style="list-style-type: none"> <li>• Face and back allowed amendments and small mass corrections</li> <li>• Mixed core veneers (Pine or Eucalyptus)</li> <li>• Wood-based panel technically immunized</li> </ul>	MR or WBP	450 - 480 Kg/m <sup>3</sup>

# PARAMETERS FOR WOOD-BASED PANEL OF PARICÁ

Class	Nominal Thickness (mm)	Veneers minimal number	Produced Dimensions (mm)
<b>A/A</b>	4	3	2,200 x 1,600 2,440 x 1,220 2,500 x 1,600
	6	3	
	8	5	
	10	7	
	12	7	
	15	9	
	18	11	
	20	13	
25	13		

Class	Nominal Thickness (mm)	Veneers minimal number	Produced Dimensions (mm)
<b>A/B</b>	6	3	2,200 x 1,100 2,200 x 1,600 2,440 x 1,220 2,500 x 1,600
	8	5	
	10	5	
	12	5	
	15	7	
	18	9	
	20	11	
	25	11	

Class	Nominal Thickness (mm)	Veneers minimal number	Produced Dimensions (mm)
<b>B/B</b>	6	3	2,200 x 1,100 2,200 x 1,600 2,440 x 1,220 2,500 x 1,600
	8	5	
	10	5	
	12	5	
	15	7	
	18	9	
	20	11	
	25	11	

Class	Nominal Thickness (mm)	Veneers minimal number	Produced Dimensions (mm)
<b>A1/A1</b>	4	3	2,200 x 1,600 2,440 x 1,220 2,500 x 1,600
	6	3	
	8	5	
	10	7	
	12	7	
	15	9	
	18	11	
	20	13	
25	13		

Class	Nominal Thickness (mm)	Veneers minimal number	Produced Dimensions (mm)
<b>A1/B1</b>	4	3	2,200 x 1,100 2,200 x 1,600 2,440 x 1,220 2,500 x 1,600
	6	3	
	8	5	
	10	5	
	12	5	
	15	7	
	18	9	
	20	11	
25	11		

Class	Nominal Thickness (mm)	Veneers minimal number	Produced Dimensions (mm)
<b>B1/B1</b>	4	3	2,200 x 1,100 2,200 x 1,600 2,440 x 1,220 2,500 x 1,600
	6	3	
	8	5	
	10	5	
	12	5	
	15	7	
	18	9	
	20	11	
25	11		

# BUSINESS MANUFACTURERS ( ABIMCI's members)

## **Adeco Indústria e Comércio de Compensados**

+55 (94) 3335-2161  
Dom Eliseu - PA  
[median.pardo@grupoarboris.com.br](mailto:median.pardo@grupoarboris.com.br)

## **Agro Florestal Confiança Ltda**

+55 (94) 3326-1361  
Rondon do Pará - PA  
[www.compensadosconfianca.com.br](http://www.compensadosconfianca.com.br)

## **Celplac Indústria e Comércio Eireli**

+55 (42) 3624-1236  
[www.celplac.com.br](http://www.celplac.com.br)

## **Centerplac Compensados Ltda**

+55 (94) 3326-2175  
Rondon do Pará - PA  
[www.centerplac.com.br](http://www.centerplac.com.br)

## **Compensados Laselva Ltda**

+55 (42) 3436-1532  
Imbituva - PR  
[laselva@compensadoslaselva.com](mailto:laselva@compensadoslaselva.com)

## **Compensados Novo Milênio Ltda**

+55 (94) 3326-1839  
Rondon do Pará - PA  
[www.cnovomilenio.com.br](http://www.cnovomilenio.com.br)

## **Compensados Pinhal Ltda**

+55 (49) 3366-1146  
Pinhalzinho - SC  
[www.compensadospinhal.com.br](http://www.compensadospinhal.com.br)

## **Compensados Uliana Ltda**

+55 (91) 3726-1144  
Ulianópolis - PA  
[www.compensadosuliana.com.br](http://www.compensadosuliana.com.br)

## **Concrem Wood Agroindustrial Ltda**

+55 (94) 3335-9100  
Dom Eliseu - PA  
[www.concremwood.com.br](http://www.concremwood.com.br)

## **Dalcomad Dalgallo Comércio de Madeira Ltda**

+55 (42) 3553-1350  
Bituruna - PR  
[www.dalcomad.com.br](http://www.dalcomad.com.br)

## **Ecoplac Laminados Ltda - ME**

+55 (91) 3726-1100  
Ulianópolis - PA  
[www.grupociprandi.com.br](http://www.grupociprandi.com.br)

## **Guama Comércio e Representação Ltda - Paraforest**

+55 (99) 3531-4000  
Dom Eliseu - PA  
[www.paraforest.com](http://www.paraforest.com)

## **Hidil Plac Indústria e Comércio Ltda - EPP**

+55 (94) 3342-1218  
Abel Figueiredo - PA  
[www.hidilplac.com.br](http://www.hidilplac.com.br)

## **Lano da Amazônia Ltda**

+55 (69) 3442-2893  
Rolim de Moura - RO  
[www.lanodaamazonia.com.br](http://www.lanodaamazonia.com.br)

## **Madeira Belo Horizonte Ltda**

+55 (42) 3436-1299  
Imbituva - PR  
[www.madeireirabelohorizonte.com.br](http://www.madeireirabelohorizonte.com.br)

## **Madeira 5 irmãos Ltda**

+55 (46) 3252-1573  
Clevelândia - PR  
[www.cincoirmaos.com.br](http://www.cincoirmaos.com.br)

## **Rosa Compensados Ltda**

+55 (91) 3738-1117  
Paragominas - PA  
[www.gruporosa.com.br](http://www.gruporosa.com.br)

## **Somapar Sociedade Madeireira Paranaense Ltda**

+55 (42) 3521-2900  
União da Vitória - PR  
[www.somapar.com.br](http://www.somapar.com.br)

## **Tecnoplac Tecnologia em Placas Ltda**

+55 (94) 3326-1226  
Rondon do Pará - PA  
[www.tecnoplaccompensados.com.br](http://www.tecnoplaccompensados.com.br)





Av. Comendador Franco, 1341 - Campus da Indústria . Jardim Botânico. 80.215 090 Curitiba - PR - Brazil . +55 (41) 3225-4358  
[www.abimci.com.br](http://www.abimci.com.br)    [abimci@abimci.com.br](mailto:abimci@abimci.com.br)

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