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## ARAUCO SAWN TIMBER





### A Global Leader

For more than 40 years, ARAUCO has been driven forward by its vision of being a global leader in sustainable forest products. During this time, we have evolved into one of the most respected forestry companies in the world, not only for the size and health of our plantation forests, the quality of our products and superior customer service, but for our technical innovation, environmental responsibility and social commitment as well.

ARAUCO's success is based on high quality production that satisfies our customers while balancing the company's needs with those of our employees, the environment, and the people who live near our facilities and plantations.

This is the starting point for the responsible and efficient management of our natural resources, the occupational health and safety of our workers and our active contribution to social development and welfare in the communities in which we operate.

### ARAUCO's Business Areas

#### **Forestry**

ARAUCO sources its raw material from 1.6 million hectares (3.9 million acres) of proprietary forest lands located throughout Chile, Argentina, Brazil and Uruguay.

These forest holdings, together with our sustainable management policy implemented under strict international standards, and the application of research and innovation to make full use of our fiber resource, provide the foundation for ARAUCO's continued competitive strength in the marketplace.

Through Bioforest, ARAUCO's scientific and technological research center, we apply leading edge biotechnology to the development of new ways to increase the quality, productivity and performance of our plantations, we improve the production process of pulp and safeguard the rich biodiversity that exists within our forest holdings.

#### Woodpulp

ARAUCO's wood pulp is manufactured exclusively with fiber from pine and eucalyptus forest plantations. ARAUCO's wood pulp business area annually produces 3.2 million ADt of bleached pulp, mainly used for printing and writing, and sanitary paper; unbleached pulp, used to make packaging material, fiber cement, and dielectric paper; and fluff pulp, used in the absorbent core of personal-care products

#### Sawn Timber

ARAUCO's sawn timber business produces a wide variety of lumber and remanufactured wood products, with a total annual capacity of 2.8 million m³ of green lumber. These products have different finishes, appearances and value-added processes, meeting the needs of the furniture, packaging, paneling, construction and remodeling industries. This business area also produces wood mouldings, edge glue boards and structural laminated beams. These products are sold under the TruChoice brand and are widely known for their consistent high quality.

#### **Panels**

ARAUCO is well-known as one of the leading producers in the global panel market. Since the start-up of the first plywood mill in 1997, the company has been adding new capacity and product lines, reaching today a total annual production of 3.2 million m³. The Panel products offered by ARAUCO are: AraucoPly Plywood, Trupan MDF, Particleboard; Melamine and Cholguan high density hardboard, which are widely used in the furniture, packaging, mobile homes, boating and marine industries, and the construction and renovation markets.

#### **Energy**

ARAUCO generates its own clean, renewable electric energy from forest biomass, reducing the company's greenhouse gas (GHG) emissions and its contribution to global warming. Our seven cogeneration power plants have an installed capacity of 569 MW of electric energy, enough to meet the needs of our own industrial processes and deliver 180 MW of surplus energy to Chile's Central Interconnected System.

This initiative allows for an estimated annual reduction of 350 thousand tons of CO2, equal to what would be produced by 60 thousand cars driving 20 thousand kilometers a year. By using bio-fuels, ARAUCO has become the first Chilean forestry company to issue Carbon Credits; one of its most important achievements throughout its 40 years of history.



"Growing the future means being a global leader in the development of sustainable forest products"

## Sustainability

### Environmental Responsability

#### Sustainable Forest Management

At ARAUCO the concept of environmental responsibility leads to the development of initiatives under an efficient management strategy incorporating values, commitments and standards, together with the application of the best practices and technologies available in the industry.

Our environmental policy is applied to all areas of the company, from plantation management and maintenance of our parks to operations developed in industries and offices. The purpose is to continually improve our performance in this field.

All of ARAUCO's production units are certified to environmental management standard systems and have a minimal environmental impact, additionally ensuring the traceability of raw materials. Our wood is exclusively sourced from sustainably managed forest plantations.

#### **Native Forest Protection**

ARAUCO owns 374,000 hectares (924,000 acres) of native forest that are permanently protected under strict international regulations and management standards.

These conservation set-asides include parcels that are exceptionally rich in biodiversity and have been designated as High Value Environmental Areas. In addition, ARAUCO has designated a significant portion of its forest holdings for restoration and conservation activities, environmental education programs, and scientific studies on flora, fauna, habitat and sensitive ecosystems.

## Carbon Footprint & Carbon Sequestration

ARAUCO made a corporate commitment to not remain indifferent towards global climate change and to add its own contribution to the efforts being made worldwide, by conducting a Carbon Footprint Assessment (CFA) project which was completed in July 2009 under the guidance of AECOM Environment and Fundación Chile. The CFA project measured the level of greenhouse gas emissions (GHG) resulting from our operations in Chile, Argentina, Uruguay and Brazil.

A pioneering venture among South American companies, ARAUCO's Carbon Footprint Assessment not only identified the company's direct and indirect GHG emissions, but also those resulting from harvesting and the transportation

of raw materials and finished products. The CFA also determined the amount of carbon sequestered in our forest holdings and finished products. The valuable and reliable information resulting from this study will allow ARAUCO to evaluate its progress in greenhouse gas reduction and identify opportunities for improvement.

Our forests contribute to the mitigation of global warming by naturally absorbing carbon dioxide from the atmosphere. Young trees capture GHG at a faster rate than do mature trees, this makes our forest a part of the solution in fighting global climate change. In addition, our products made from processed wood store carbon dioxide during their entire shelf life.

#### **Clean Energy & Carbon Credits**

At ARAUCO we know that our forest plantations present a viable solution to environmental issues as well as energy issues. Our sustainably managed forests provide recyclable, reusable and biodegradable raw material. In addition, we make full use of our fiber resource, which allows us to generate clean, renewable energy from forest biomass, reducing the company's GHG emissions.

Our ability to use forestry biomass as carbon neutral cogeneration fuel enabled ARAUCO to become in 2007 the first Chilean forestry company to issue Carbon Credits. Since then, ARAUCO has issued a total of 1.070.851 Certified Emission Reduction bonds (CERs).

ARAUCO has seven biomass - based cogeneration power plants and four of them are registered under the Clean Developmet Mechanism of the Kyoto Protocol

### Occupational Health and Safety

Occupational Health and Safety (OHS) is a priority at ARAUCO. We approach it straightforwardly, using specific tools for effective results, benefiting employees and contract workers.

In the Sawn Timber business area, all of our facilities are certified under OHSAS 18001 standards. The company also develops initiatives specifically designed for workers such as intensive training to strengthen risk-prevention management, safety standard implementation, risk identification and the use of preventive tools, among others.

In addition to safeguarding the safety of all of our workers, we are committed to creating the conditions necessary to foster the career advancement and human development of all company members, as well as promoting a positive workplace based on respect, honesty, professionalism, training and teamwork.

# Social Development and Welfare of Communities

ARAUCO maintains that the development of a country is strengthened when private-sector companies, together with civil society actors, become involved and embrace the responsibility of improving the quality of life in the communities where our operations are based. Generating employment, stimulating productive development, providing opportunities for local suppliers, and enhancing trade skills and education are all parts of a chain that is anchored by economic and social development, generating projects for quality-of-life improvements.

As a world leader in the development of sustainable forest products, ARAUCO's commercial success is inseparably intertwined with the personal welfare of the people living in communities near its operations. During 2010, the company continued to expand its Corporate Social Responsibility programs, which are focused on three main areas:

#### • Economic Development

ARAUCO contributes to the development of local economies in areas adjacent to its operations. In addition to providing employment and skills-training, the company transfers experience, management abilities and technologies to local communities and provides business opportunities for local entrepeneurs.

#### Social Development

ARAUCO's social-development efforts are largely focused on providing access to quality public education, promoting cultural opportunity, and supporting sports activities.

#### · Quality of Life

ARAUCO enhances the quality of life in local communities through investments in infrastructure, equipment, and public housing, and through programs that seek to preserve or restore cultural tradition.

To these ends, ARAUCO invested US\$12 million during 2010 in Corporate Social Responsibility programs in Chile, Argentina and Brazil.

#### Education

Maintaining a firm belief that education is a key factor for national development and career advancement, ARAUCO has made its most sizable commitment to teacher training and access to quality public education for children most at risk. In Chile, the company provides management and financial support for schools in Arauco, Constitución and Cholguán, three educational institutions known at the national level for their excellent academic results. Also in Chile, the company established the Arauco Educational Foundation, which has been enhancing the teaching skills of 4,700 teachers and improving the quality of education for some 83,000 students since 1989.

The company also supports the Belén Educa Foundation in Chile; the Alto Paraná Foundation in Argentina; and Arauco Brazil Environmental Education Foundation in Brazil.

"Environmental responsibility, the occupational health and safety of our workers, and the social development and welfare of communities in which we operate are essential to our sustainable business model"



Sawn Timber

## ARAUCO Sawn Timber

- Sawn Timber Business Area
- Sawmills and Millwork
- Production Process
- Sawing Scheme



#### Sawn Timber Business Area

ARAUCO sources the raw material for all its products from 1.6 million hectares (3.9 million acres) of proprietary forest plantations located throughout Chile, Argentina, Brazil and Uruguay. Our forest holdings, sustainably managed under strict international standards, and the application of research and innovation, provide the foundation for ARAUCO's current and future competitive strength in the marketplace, and ensure a steady supply of wood for our production facilities.

ARAUCO's integrated business model, based on the efficient use of all of our resources, extends from our plantation forests to the final product arriving to several markets, which allows us to obtain the optimal yield in every stage of production, assuring high quality and consistent availability for our customers.

2010 Sawn Timber Sales by Market (US\$621 millions)

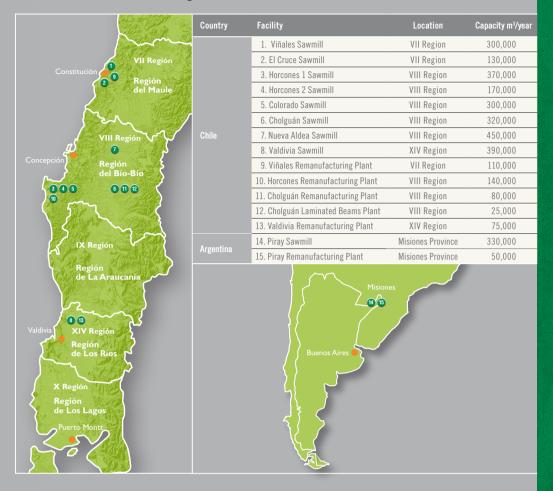


The Sawn Timber business area has reached a leading position through a comprehensive business model and an accurate sales strategy providing broad market coverage, full understanding of the market, and an extensive network of sales representatives and sales offices in Argentina, Australia, Brazil, Chile, China, Colombia, Holland, Japan, Mexico, Peru, and the United States.

Sawmills and Millwork

#### Sawmills and Millwork

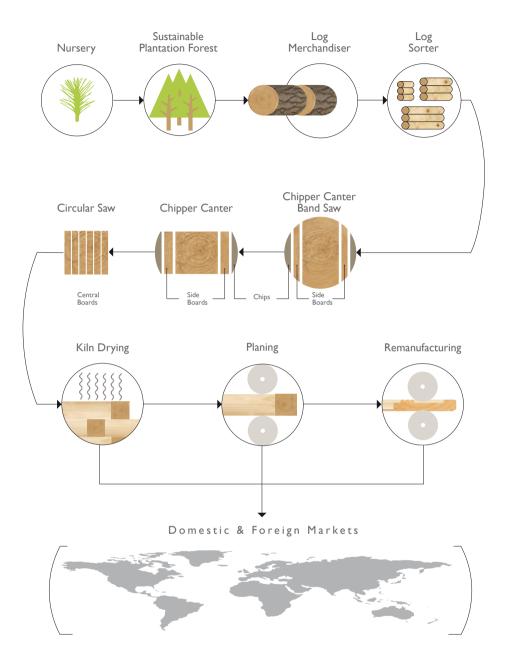
The Sawn Timber business area consists of 15 industrial facilities; 13 located in Chile and 2 in Argentina.



All of ARAUCO's facilities located in Chile are certified to CERTFOR Chain-of-Custody (PEFC/24-31-100), ISO 14001 and OHSAS 18001 standards. In Argentina, facilities located in the Misiones Province are certified to FSC Chain-of-Custody, FSC Controlled Wood Standard for Forest Management Enterprises (FSC 30-010), ISO 14001, ISO 9001 and OHSAS 18001 standards.

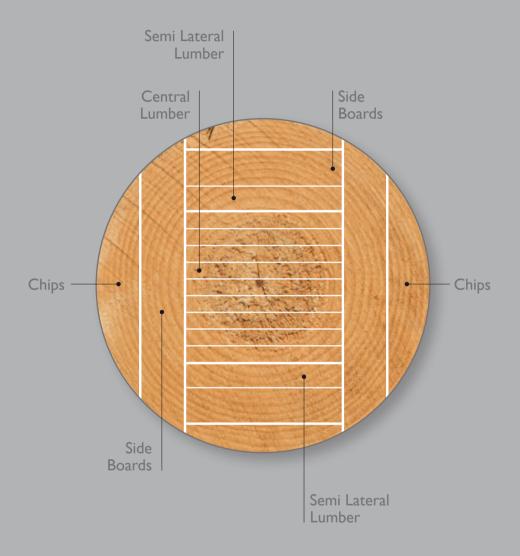


## **Production Process**



### **Sawing Scheme**

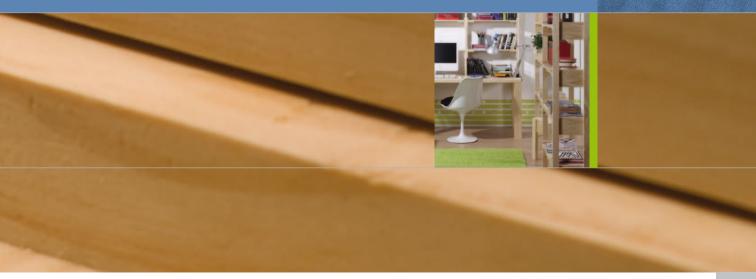
Our productive process allows the classification of the wood depending on several attributes, such as: density; knot configuration; presence of pith, etc. This is carried out by focusing on the end use of the products. For this purpose we consider three main categories: Side Boards, Semi Lateral Lumber and Central Lumber.

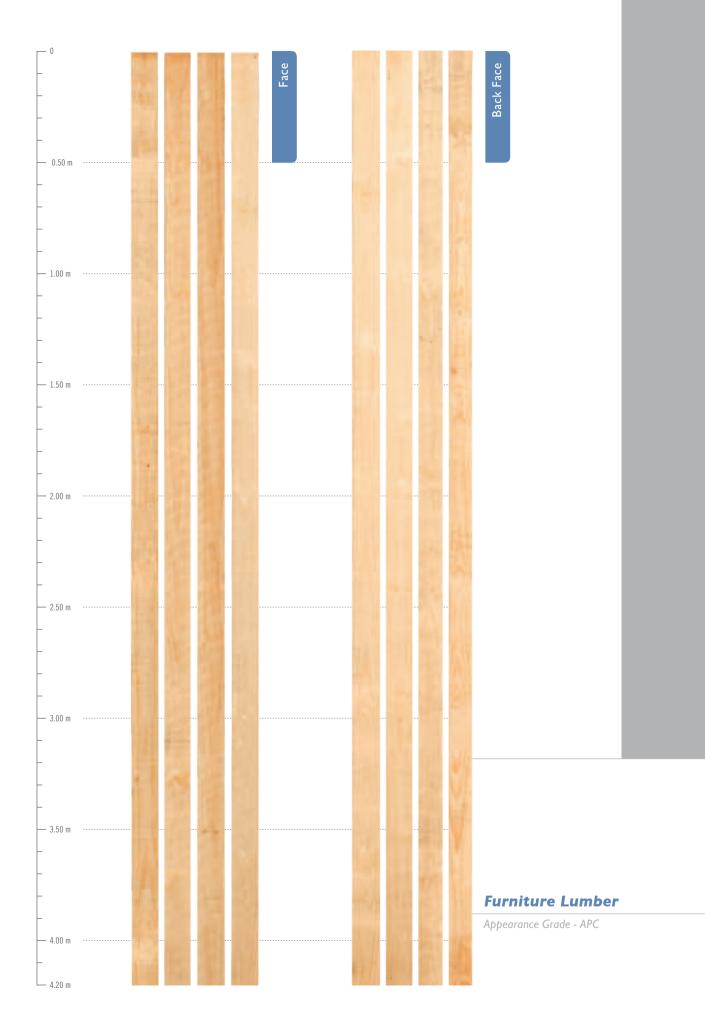






- Appearance Grade
  - APC
  - APP
  - APE
  - AP2
- Industrial Furniture
  - FG4 / MSD Furniture
  - FG5
  - COL





#### **APC**

#### Description

Appearance grade APC is a product of outstanding value, made from pruned logs that originate in ARAUCO's Radiata pine plantation forests. It is ideal for decorative uses where appearance is crucial.

#### Grade

- Knot free (clear) in all 4 faces.
- Product is 100% free of wane.

#### Sizes

Thickness	Width	Longth
Rough (mm)	Rough (mm)	Length (mm)
22		
25	75 & up	2,400 & up
32		

#### Tolerance\*

Thickness	Width	Length
(mm)	(mm)	(mm)
-0/ +2	-0/ +3	-0/ +20

(\*) At least 90% of products meet these tolerances.

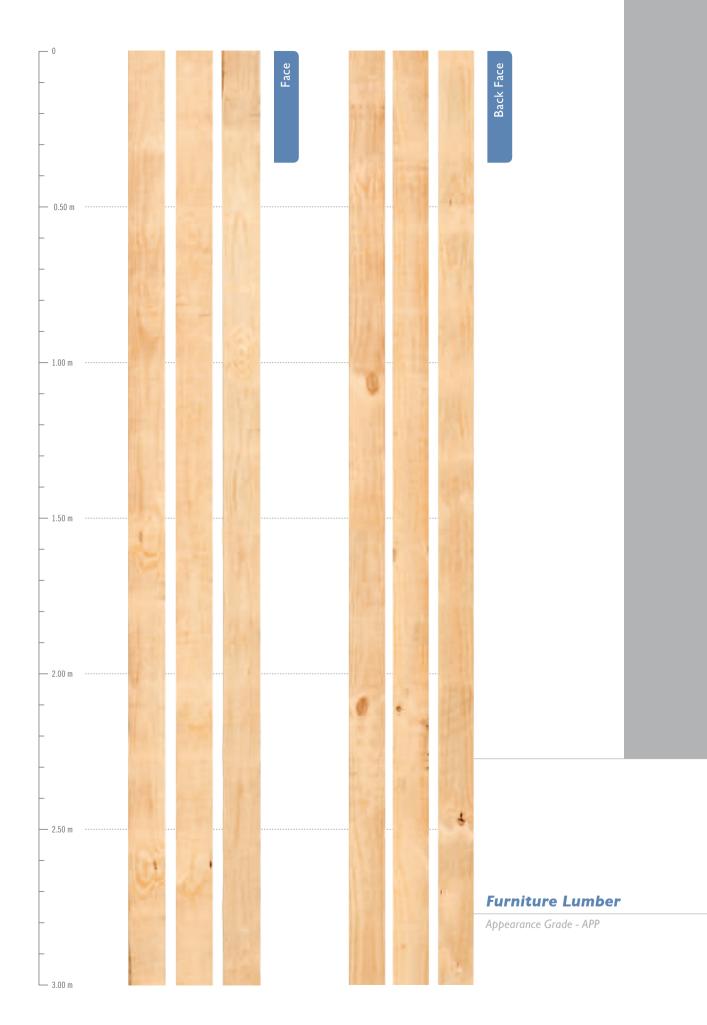
#### Moisture Content

- Average 10%.
- Maximum 13%.

#### **Applications**

- Furniture components.
- Edge-Glued Panels (EGP).
- Door and window components.
- Moulding.





#### **APP**

#### Description

Appearance grade APP is a product of exceptional value, made from pruned logs that originate in ARAUCO's Radiata pine plantation forests. It is ideal for decorative uses where appearance is important.

#### Grade

- Face: Guaranteed 100% free of knots.
- Back Face: For lengths greater than 4000mm, two knotty areas are permitted with a maximum length of 30cm. For lengths 4000mm and shorter, one knotty area with a length of 30cm is permitted.
- Edges: Guaranteed 100% free of defects.
- Wane accepted occasionally, with a maximum size of 5mm x 5mm.

#### **Sizes**

Thickness	Width	langth
Rough (mm)	Rough (mm)	
37	02.0	2 400 8
44	93 & up	2,400 & up

#### Tolerance\*

Thickness	Width	Length
(mm)	(mm)	(mm)
-0/ +2	-0/ +3	-0/ +20

(\*) At least 90% of products meet these tolerances.

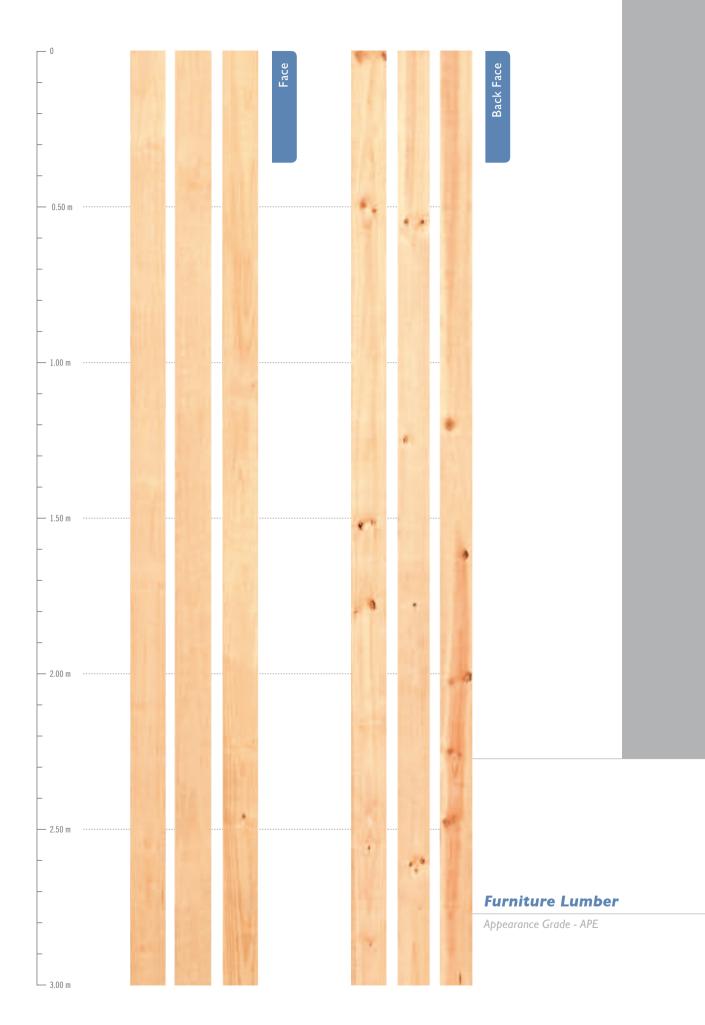
#### Moisture Content

- Average 10%.
- Maximum 13%.

#### **Applications**

- Furniture components.
- Edge-Glued Panels (EGP).
- Door and window components.





#### **APE**

#### Description

Appearance grade APE is a product of excellent value, made from pruned logs that originate in ARAUCO's Radiata pine plantation forests. It is ideal for decorative uses where appearance is relevant.

#### Grade

- Face: Guaranteed 100% free of knots.
- Back Face: Knots are not limited. Minor defects are allowed.
- Knots located on edges are permitted.
- Wane accepted occasionally, with a maximum size of 5mm x 5mm.

#### Sizes

Thickness	Width	Loueth		
Rough (mm)	Rough (mm)	Length (mm)		
22				
25				
32				
37	02.8 μρ	2 400 8 μρ		
44	93 <b>&amp;</b> up	2,400 & up		
50				
63				
75				

#### Tolerance\*

Thickness	Width	Length
(mm)	(mm)	(mm)
-0/ +2	-0/ +3	-0/ +20

<sup>(\*)</sup> At least 90% of products meet these tolerances.

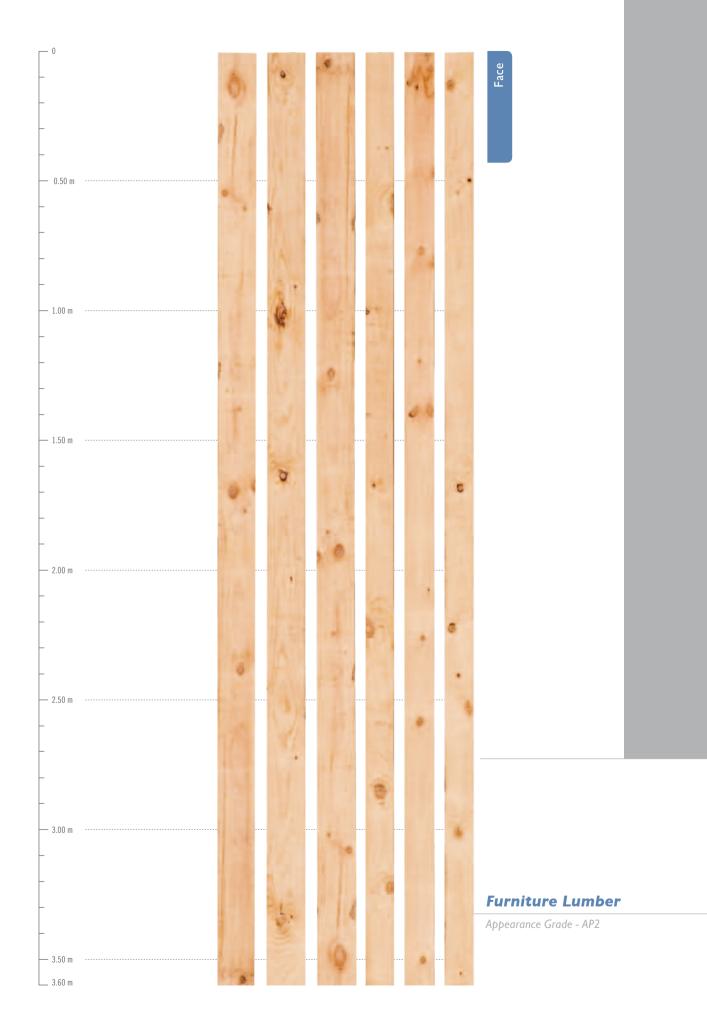
#### Moisture Content

- Average 10%.
- Maximum 13%.

#### **Applications**

- Furniture components.
- Edge-Glued Panels (EGP).
- Door and window components.





#### AP2

#### Description

Appearance grade AP2, made from pruned logs that originate in ARAUCO's Radiata pine plantation forests. It is suitable for industrial uses where some appearance is required.

#### Grade

- Does not meet classification standards for APC, APP or APE.
- Defects are allowed in face, back face and edges.
- A maximum of 20% wane is accepted over the entire length of the piece.

#### Sizes

Thickness	Width	l an aib		
Rough (mm)	Rough (mm)	Length (mm)		
32	93 & up			
50		2 400 8 μη		
63		2,400 & up		
75				

#### Tolerance\*

Thickness	Width	Length
(mm)	(mm)	(mm)
-0/ +2	-0/ +3	-0/ +20

(\*) At least 90% of products meet these tolerances.

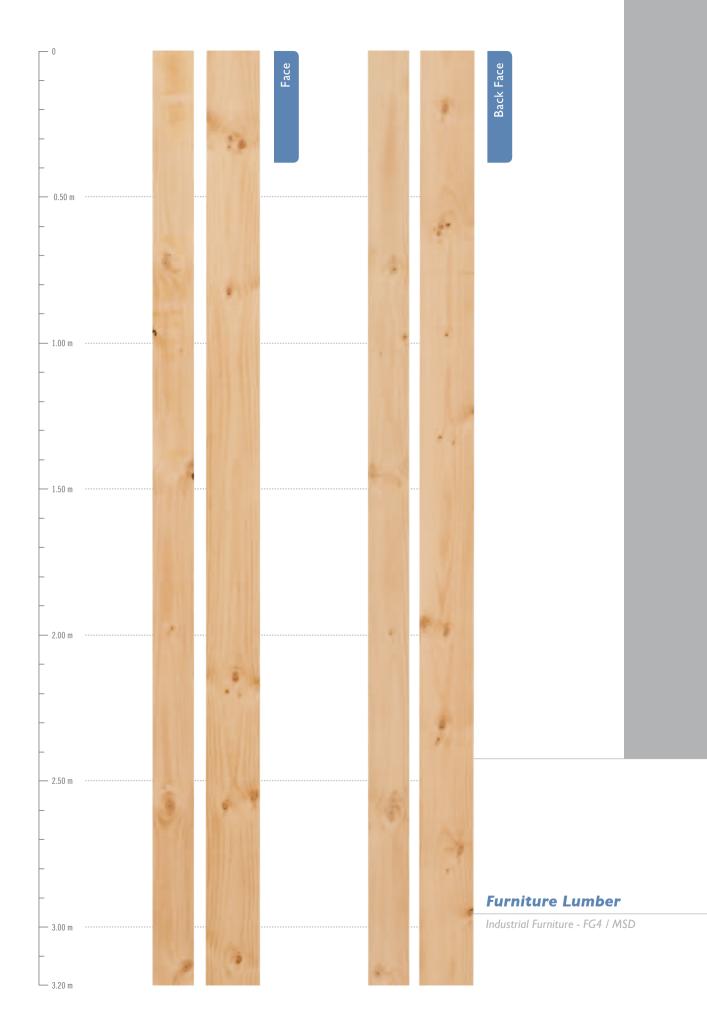
#### Moisture Content

- Average 10%.
- Maximum 13%.

#### **Applications**

• Furniture components





#### **FG4 / MSD FURNITURE**

#### Description

Kiln-dried dimensioned lumber made from both pruned and unpruned logs, used in carpentry and in the manufacturing of furniture.

#### Grade

- Classified by the best face.
- Sound knots are permitted. A maximum of one firm knot is permitted for each lineal meter, with a maximum size of 2".
- Obtained from side boards.
- Occasional pith is accepted with a maximum of 20% on the face and 30% on the back face.
- Wane accepted occasionally, with a maximum size of 5mm x 5mm.

#### Sizes

Thickness			Width			l a madh
Nominal (in)	Rough (mm)	Planed (mm)	Nominal (in)	Rough (mm)	Planed (mm)	Length (ft)
1"	22	19	411 011	04 145	00 140	
1 ½"	36	33	4" - 6" 8" - 10"	94 - 145 195 - 245	90 - 140 190 - 240	8' - 13' - 16'
2"	44	41	0 - 10	133 - 243	130 - 240	

#### Tolerance\*

Thickness	Width	Length
(mm)	(mm)	(mm)
-0/ +2	-0/ +3	-0/ +20

<sup>(\*)</sup> At least 90% of products meet these tolerances.

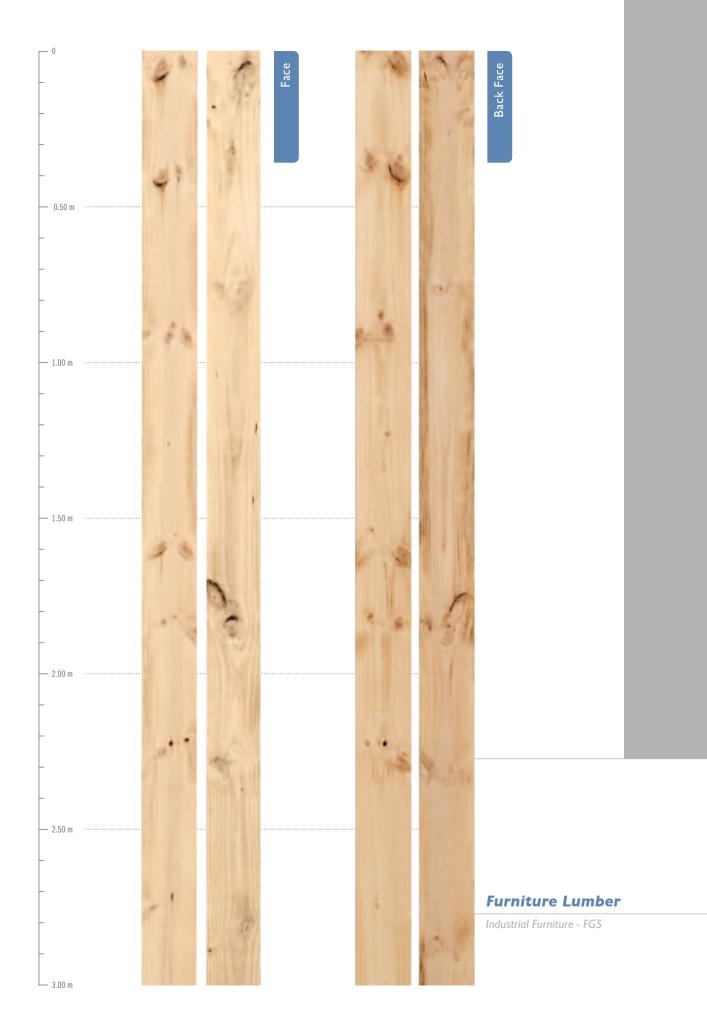
#### Moisture Content

- Average 12%.
- Maximum 15%.

#### **Applications**

- Furniture manufacturing.
- Carpentry.
- Construction.





#### FG5

#### Description

Kiln-dried dimensioned lumber made from both pruned and unpruned logs, used in the manufacturing of furniture or in construction.

#### Grade

- Does not meet classification standards of FG4.
- Knots allowed without restriction, as long as they do not compromise the integrity of the piece.
- Hit & miss areas permitted on the face without restriction.
- Occasional pith is accepted with a maximum of 30% on the face and 40% on the back face.
- $\bullet$  Wane is permitted occasionally, with a maximum size of 10mm  $\times$  10mm over 10% of the piece.

#### Sizes

	Thickness			Width		Longilla
Nominal (in)	Rough (mm)	Planed (mm)	Nominal (in)	Rough (mm)	Planed (mm)	Length (ft)
1"	22	19				
1 ½"	36	33	4" - 6" 8" - 10"	94 - 145 195 - 245	90 - 140 190 - 240	8' - 13' - 16'
2"	44	41	0 10	100 - 240	100 - 240	

#### Tolerance\*

Thickness	Width	Length
(mm)	(mm)	(mm)
-0/ +2	-0/ +3	-0/ +20

<sup>(\*)</sup> At least 90% of products meet these tolerances.

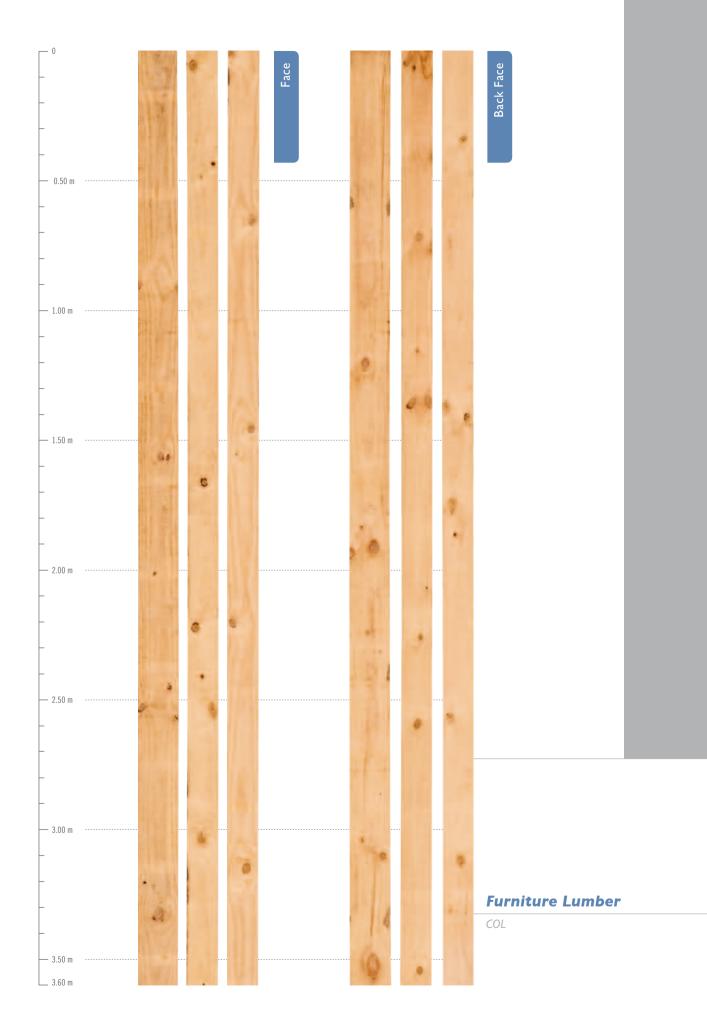
#### Moisture Content

- Average 12%.
- Maximum 15%.

#### **Applications**

- Furniture manufacturing.
- Construction.





### **COL** (Cut of Log)

#### Description

Cut from the side boards and the semi-lateral portions of unpruned Radiata pine logs, classified according to appearance.

#### Grade

- Each piece will yield at least 50% STK (clears including sound and tight knots) cuttings, with a minimum length of I50mm.
- Classified by the worst face.
- Knots are accepted as long as they do not compromise the integrity of the piece.
- Wane is accepted if it does not exceed 10% of the length of the piece, with a maximum size of 10mm x 10mm over 30% of the total of the pieces per bundle.

#### Sizes

Thickness	Width	Longth
Rough (mm)	Rough (mm)	Length (mm)
16	75 & up	
19	75 & up	
22	95 & up	
24		
28		2,400 & up
37		
45		
50		

#### Tolerance\*

Thickness	Width	Length
(mm)	(mm)	(mm)
-0/+2	-0/ +3	-0/ +20

<sup>(\*)</sup> At least 90% of products meet these tolerances.

#### **Humidity Content**

- Average 10%.
- Maximum 13%.

#### **Applications**

- Furniture manufacturing.
- Moulding.
- Edge-Glued Panels (EGP).



**Furniture** 



# **Construction Lumber**

- MSD Structural
- MSD Surfaced Lumber
- MSD Dimension Lumber
- MSD Pattern
  - Ceiling
  - Wall Panel
  - Flooring
- Decofaz
- Decking
- Standard Lumber





#### **MSD STRUCTURAL**

#### Description

Radiata pine dimension lumber, is classified visually for structural use according to the Chilean standard NCh1207 or alternatively machine graded according to the European standard BS EN-519:1995.

#### Grade

- Planed all four sides.
- Knots accepted according to the structural standard.
- Pith accepted occasionally, with a maximum of 20% in the face and 30% in the back face.
- Wane accepted occasionally, with a maximum size of 5mm x 5mm and a maximum length of I/3 of the length of the piece.

#### Sizes

Thick	kness	Wid	dth	l an aidh
Nominal (in)	Planed (mm)	Nominal (in)	Planed (mm)	Length (mm)
2"	41	3" - 4" - 6" 8" - 10"	65 - 90 - 138 185 - 230	2,400 - 4,000 4,880

#### Tolerance\*

Thickness	Width	Length
(mm)	(mm)	(mm)
-0/ +2	-0/ +3	-0/ +20

(\*) At least 90% of products meet these tolerances.

#### Moisture Content

• Average 12%.

#### **Applications**

- Roof structures
- Beams

#### Structural Grading

Norm	Grade	F <sub>r</sub> MPa	F <sub>fp</sub> MPa	F <sub>cp</sub> MPa	F <sub>cn</sub> MPa	F <sub>v</sub> MPa	E <sub>prom</sub> MPa	E <sub>k</sub> MPa
Machine Graded	C16	5.2	7.5	3.5	2.5	1.1	7,900	5,400
BS EN 338	C24	9.3	8.0	4.7	2.5	1.1	10,200	7,200
Visually Graded NCh1207	G2	5.4	6.5	4.0	2.5	1.1	8,900	4,690





#### **MSD SURFACED LUMBER**

#### Description

Radiata pine dimensioned lumber, planed on all four sides, known for its dimensional stability and its low level of deformation and warping. Suitable for use in construction and carpentry.

#### Grade

- Classified by the best face.
- Sound knots accepted without limit, firm knots permitted at a maximum | knot per lineal meter, with a maximum size of 2".
- Pith accepted occasionally, with a maximum of 20% of the face and 30% of the back face.
- Wane accepted occasionally, with a maximum size of 5mm x 5mm and a maximum length of I/3 of the piece.

#### Sizes

Thickness		Width		Laurah	
Nominal (in)	Planed (mm)	Nominal (in)	Planed (mm)	Length (mm)	
1"	19	2" - 3" - 4" - 5" 6" - 8" - 10"	41 - 65 - 90 - 115 138 - 185 - 230	2 200 4 000	
2"	41	2" - 3" - 4" 5" - 6"	41 - 65 - 90 115 - 138	3,200 - 4,000	

#### Tolerance\*

Thickness	Width	Length
(mm)	(mm)	(mm)
-0/ +2	-0/ +3	-0/ +20

<sup>(\*)</sup> At least 90% of products meet these tolerances.

#### Moisture Content

• Average 15%.

#### **Applications**

- Roof structures.
- Beams.
- Carpentry.



#### Construction





**Construction Lumber** 

MSD Dimension Lumber

#### **MSD DIMENSION LUMBER**

#### Description

Kiln-dried Radiata pine dimensioned lumber, meant to be used in general framing applications.

#### Grade

- Sound and firm knots accepted without restriction.
- Wane accepted occasionally, with a maximum size of 5mm x 5mm and a maximum length of I/3 of the piece.

#### Sizes

Thick	ness	Wi	dth	Lawadh
Nominal (in)	Rough (mm)	Nominal (in)	Rough (mm)	Length (mm)
1"	22	2" - 3" - 4" 5" - 6"	45 - 69 - 94 120 - 142	2 200 4 000
2"	45	2" - 3" - 4" 5" - 6"	45 - 69 - 94 120 - 142	3,200 - 4,000

#### Tolerance\*

Thickness	Width	Length
(mm)	(mm)	(mm)
-0/ +2	-0/ +3	-0/ +20

(\*) At least 90% of products meet these tolerances.

#### Moisture Content

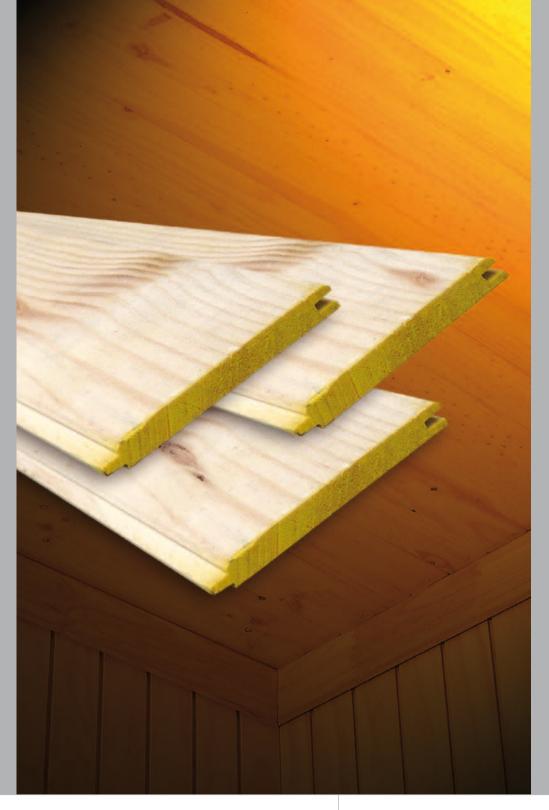
• Average 15%.

#### **Applications**

- Diverse construction applications.
- Partition walls.
- Roof structures.



#### Construction





MSD Pattern - Ceiling

#### **MSD PATTERN - CEILING**

#### Description

Kiln-dried Radiata pine specially designed for use in construction of ceilings and as interior wall paneling.

#### Grade

- Can be knotty or free-of-knots.
- Wane is not acceptable on the face.
- Holes accepted occasionally, with a maximum of two per piece and a diameter of 12mm.

#### Sizes

Thick	ness	Wi	dth	longth
Nominal (in)	Planed (mm)	Nominal (in)	Planed (mm)	Length (mm)
1/2"	9	4"	90	3,200

#### Tolerance\*

Thickness	Width	Length
(mm)	(mm)	(mm)
-0/ +2	-0/ +2	-0/+10

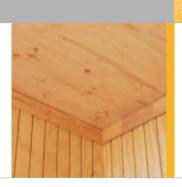
<sup>(\*)</sup> At least 90% of products meet these tolerances.

#### Moisture Content

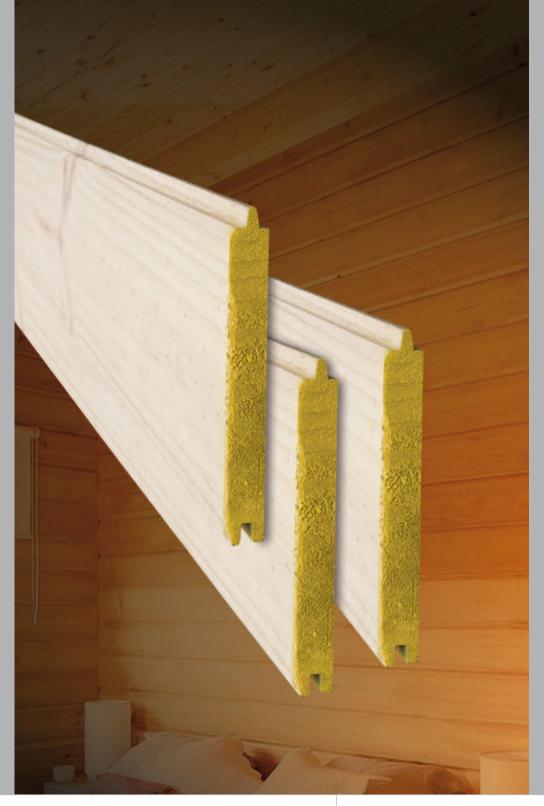
• Average 15%.

#### **Applications**

• Interior uses.



## Construction





MSD Pattern - Wall Panel

#### **MSD PATTERN - WALL PANEL**

#### Description

Kiln-dried Radiata pine specially designed for use as interior wall paneling.

#### Grade

- Can be knotty or free-of-knots.
- Wane is not acceptable on the face.
- Holes accepted occasionally, with a maximum of two per piece and a diameter of 12mm.

#### Sizes

Thick	ness	Wid	dth	Longth
Nominal (in)	Planed (mm)	Nominal (in)	Planed (mm)	Length (mm)
3/4"	14	4"	90	2 200
3/4"	14	5"	115	3,200

#### Tolerance\*

Thickness	Width	Length
(mm)	(mm)	(mm)
-0/ +2	-0/ +2	-0/ +10

<sup>(\*)</sup> At least 90% of products meet these tolerances.

#### Moisture Content

• Average 15%.

#### **Applications**

• Interior uses.



#### Construction

MSD Partern - Wall Pane





MSD Pattern - Flooring

#### **MSD PATTERN - FLOORING**

#### Description

Kiln-dried Radiata pine specially designed for use in the construction of floors, either as a finished material or as a base.

#### Grade

- Can be knotty or free-of-knots.
- Dimensionally stable.

#### Sizes

Thick	kness	Wi	dth	1
Nominal (in)	Planed (mm)	Nominal (in)	Planed (mm)	Length (mm)
1"	19	4"	90	2 200
1"	19	5"	115	3,200

#### Tolerance\*

Thickness	Width	Length
(mm)	(mm)	(mm)
-0/ +2	-0/ +2	-0/ +10

<sup>(\*)</sup> At least 90% of products meet these tolerances.

#### Moisture Content

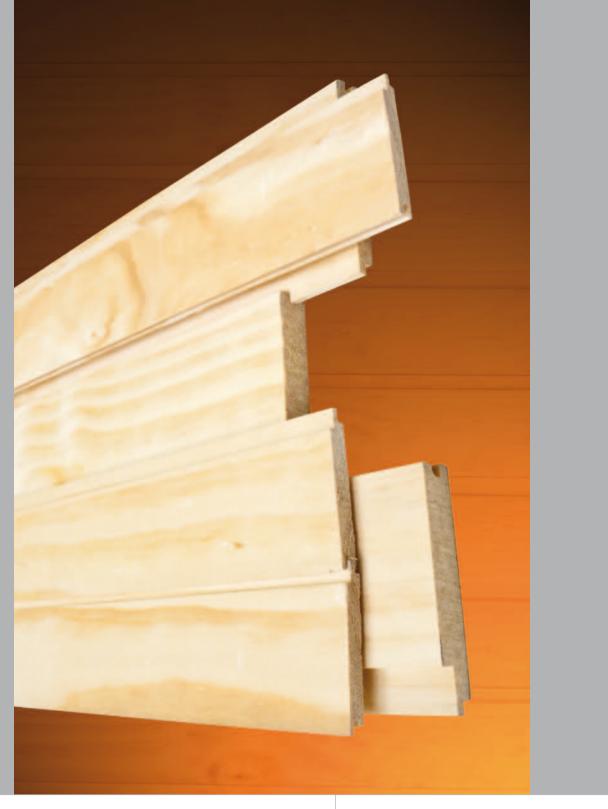
• Average 15%.

#### **Applications**

• Interior uses.



## Construction





Decofaz

#### **DECOFAZ**

#### Description

Decofaz is 100% made from knot-free, solid Radiata pine. It is specially designed to be used as interior paneling where a natural or stained appearance is important.

#### Grade

- Knot free (clear) in all 4 faces.
- Wane is not acceptable on the face.
- Holes not accepted.

#### Sizes

Thickness	Width	Longth
Planed (mm)	Planed (mm)	Length (mm)
7	58	2.13 / 2.44 / 3.05 / 3.66
13	82	2.13 / 2.44 / 3.03 / 3.00

#### Tolerance\*

Thickness	Width	Length
(mm)	(mm)	(mm)
-0/ +2	-0/ +2	-0/+10

(\*) At least 90% of products meet these tolerances.

#### Moisture Content

• Average 10%.

#### **Applications**

• Interior uses.

## Construction

umher





Decking

#### **DECKING**

#### Description

Radiata Pine Decking is a commonly used timber product that is attractive and economical. When treated, it is a durable product used as a feature to outdoor living and entertaining areas. It is very aesthetically pleasing and becoming more popular for decks, pool/spa areas and to maximize living space.

#### Grade

• Sound knots accepted up to a size that is 2/3 the width of the piece.

#### Sizes

Thickness	Width	l an aith
Planed (mm)	Planed (mm)	Length (mm)
22	70	2,100 - 2,400 - 2,700 - 3,600
22	90	4,200 - 4,500 - 4,800

#### Tolerance\*

Thickness	Width	Length
(mm)	(mm)	(mm)
-0/ +2	-0/ +2	-0/+10

(\*) At least 90% of products meet these tolerances.

#### Moisture Content

• Average 12%.

#### **Applications**

• Exterior use.



#### Construction



Standard Lumber

#### **STANDARD LUMBER**

#### Description

Dimensioned lumber obtained from the central portion of Radiata pine logs. Suitable for use in construction. The product can be green or kiln dried.

#### Grade

- Sound and firm knots accepted without restriction.
- Wane accepted occasionally, with a maximum size of 5mm x 5mm and a maximum length of 1/3 of the piece.
- Uniform dimensions.

#### Sizes

	iness ugh	Width Rough		Length
Green Rough (Nominal mm)	Kiln Dried (Nominal mm)	Green Rough (Nominal mm) (Nominal mm)		(mm)
11 to 100	11 to 95	48 to 300	45 to 290	900 to 4,880

#### Tolerance\*

	Thickness (mm)	Width (mm)	Cross-Cut Length (mm)	Standard Length (mm)
Green	-0.5/ +2	-0.5/ +3	-2/ +0	-0/ +20
Kiln Dried	-0.5/ +2	-2/ +2	-1/+1	-0/ +20

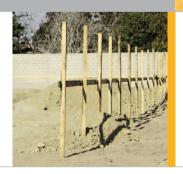
<sup>(\*)</sup> At least 90% of products meet these tolerances.

#### Moisture Content

- Geen lumber: Average moisture content 40%.
- Kiln dried: Average 15%. Maximum 19%.

#### **Applications**

- Construction material.
- Scaffolding.
- Concrete forming.





## Industrial Lumber

- Moulding & Better
- Shop N° 2 & Better
- Shop N° 3 & Better
- P99
- Rin
- Blanks





#### **MOULDING & BETTER**

#### Description

Radiata pine wood from the side boards of pruned logs that can be used to obtain rips with a high yield of defect-free product.

#### Grade

- At least 67% of the board is contained in rips free of defects, 25.4mm and wider and 10ft and longer.
- Wane is accepted in a maximum of 10% of the area of the piece for 6" width and 20% for widths greater than or equal to 7". In the length this defect can be 30% for pieces with 6" width and 40% for widths greater than or equal to 7".

#### Sizes

	Thickness		Width		Laurah
Nominal (in)	Rough (in)	Planed (mm)	Nominal (in)	Rough (mm)	Length (ft)
5/4"	35	33.3	C" 9	140 0	8' - 9' - 10' - 11' - 12'
6/4"	41	39.7	6" & up	140 & up	13' - 14' - 15' - 16'

#### Tolerance\*

Thickness	Width	Length
(mm)	(mm)	(mm)
-0/ +1.5	+/- 12.7	-0/+10

(\*) At least 90% of products meet these tolerances.

#### Moisture Content

- Average 10%.
- Maximum of 13%.

#### **Applications**

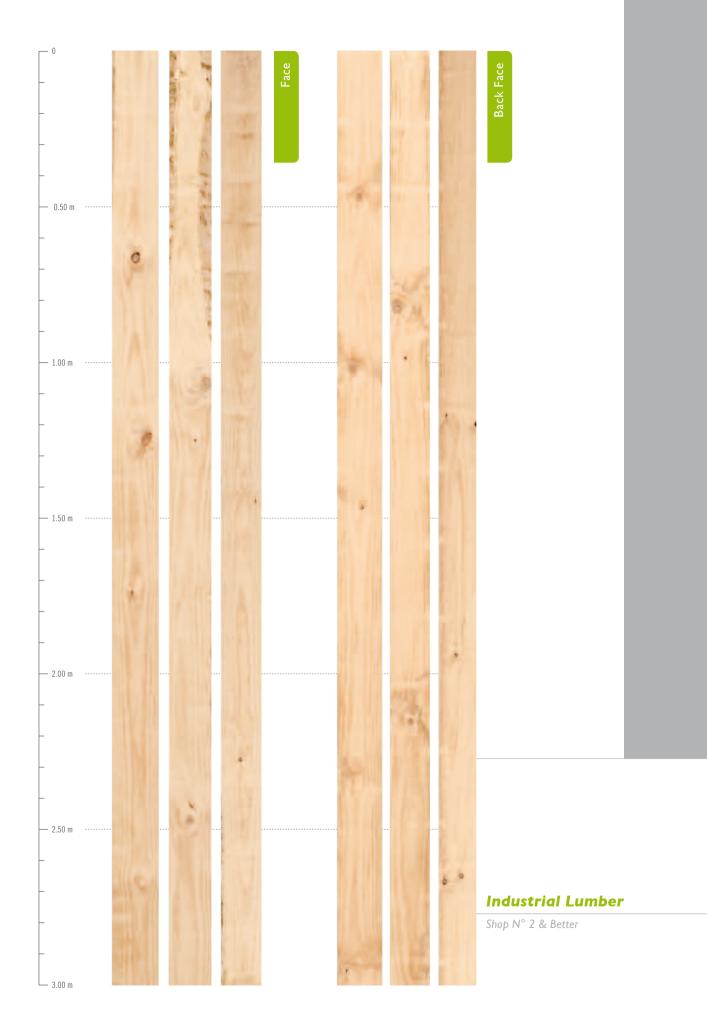
- Moulding.
- Door and window components.



#### Industrial

Lumber

Moulding & Better



#### **SHOP N° 2 & BETTER**

#### Description

Radiata pine wood from the side boards from pruned logs and unpruned logs that can be used to obtain rips for use as door and window components.

#### Grade

- Each piece has in its worst face 25% cuttings of Door N° 1, 33.4 % cuttings of mixed door and 40% cuttings of Door N° 2.
- Wane accepted at a maximum of 10% of the area of the piece for widths of 6" and 20% for widths greater than or equal to 7". In the length this defect can be in 30% for pieces 6" wide and 40% for widths greater than or equal to 7".
- Sound and firm knots accepted outside of the areas classified as "clear".

#### Sizes

Thick	ness	Width		Louidh	
Nominal (in)	Planed (mm)	Nominal (in)	Planed (mm)	Length (ft)	
5/4"	33.3	6" 9 un	140 9	8' - 9' - 10' - 11' - 12'	
6/4"	39.7	6" & up	140 & up	13' - 14' - 15' - 16'	

#### Tolerance\*

Thickness	Width	Length
(mm)	(mm)	(mm)
-0/ +1.5	+/- 12.7	-0/ +10

<sup>(\*)</sup> At least 90% of products meet these tolerances.

#### Moisture Content

- Average 10%.
- Maximum of 13%.

#### **Applications**

- Door and window components.
- Finger-Joint blanks.



## Industrial

Lumber



#### **SHOP N° 3 & BETTER**

#### Description

Radiata pine wood from the side boards from both pruned and unpruned logs, used to obtain rips used in the manufacturing of cutstocks and blocks or cuttings for window components.

#### Grade

- Does not meet standards of the Moulding&Better or Shop #2 classification.
- Each piece in its worst face has at least 30% mixed door cuttings (N°I and N°2), or cuttings for windows of N°I Window quality, or cuttings for mouldings of 2" wide by 10' feet long. Cuttings may not be aligned for the length of the piece.
- Wane accepted at a maximum 10% of the area of the piece for widths of 6" and 20% for widths greater than or equal to 7". In the length this defect can be in 30% for pieces 6" wide and 40% for widths greater than or equal to 7".
- Sound and firm knots accepted outside of the classified areas.

#### Sizes

Thick	ness	Width				l a wadh
Nominal (in)	Planed (mm)	Nominal (in)	Planed (mm)	Length (ft)		
5/4"	33.3	6" 9 up	140 9 μρ	8' - 9' - 10' - 11' - 12'		
6/4"	39.7	6" & up	140 & up	13' - 14' - 15' - 16'		

#### Tolerance\*

Thickness	Width	Length
(mm)	(mm)	(mm)
-0/ +1.5	+/- 12.7	-0/ +10

(\*) At least 90% of products meet these tolerances.

#### Moisture Content

- Average 10%.
- Maximum of 13%.

#### **Applications**

- Door and window components.
- Finger-Joint blanks.



#### Industrial

Lumber

Shop N° 3 & Better



#### **P99**

#### Description

Radiata pine wood obtained from the side boards from of both pruned and unpruned logs, used in various remanufacturing processes.

#### Grade

- Each piece contains in its worst face 50% Finger-Joint cuttings of N°I and N°2 quality and/or additional Finger-Joint, 9" long by 2.5" wide.
- Wane accepted at a maximum 10% of the area of the piece for widths of 6" and 20% for widths greater than or equal to 7". In the length this defect can be in 30% for pieces 6" wide and 40% for widths greater than or equal to 7".
- Sound and firm knots accepted outside of the classified areas.

#### Sizes

Thick	ness	Width				Lough
Nominal (in)	Planed (mm)	Nominal (in)	Planed (mm)	Length (ft)		
5/4"	33.3	6" 9 up	140 9 μρ	8' - 9' - 10' - 11' - 12'		
6/4"	39.7	6" & up	140 & up	13' - 14' - 15' - 16'		

#### Tolerance\*

Thickness	Width	Length
(mm)	(mm)	(mm)
-0/ +1.5	+/- 12.7	-0/+10

<sup>(\*)</sup> At least 90% of products meet these tolerances.

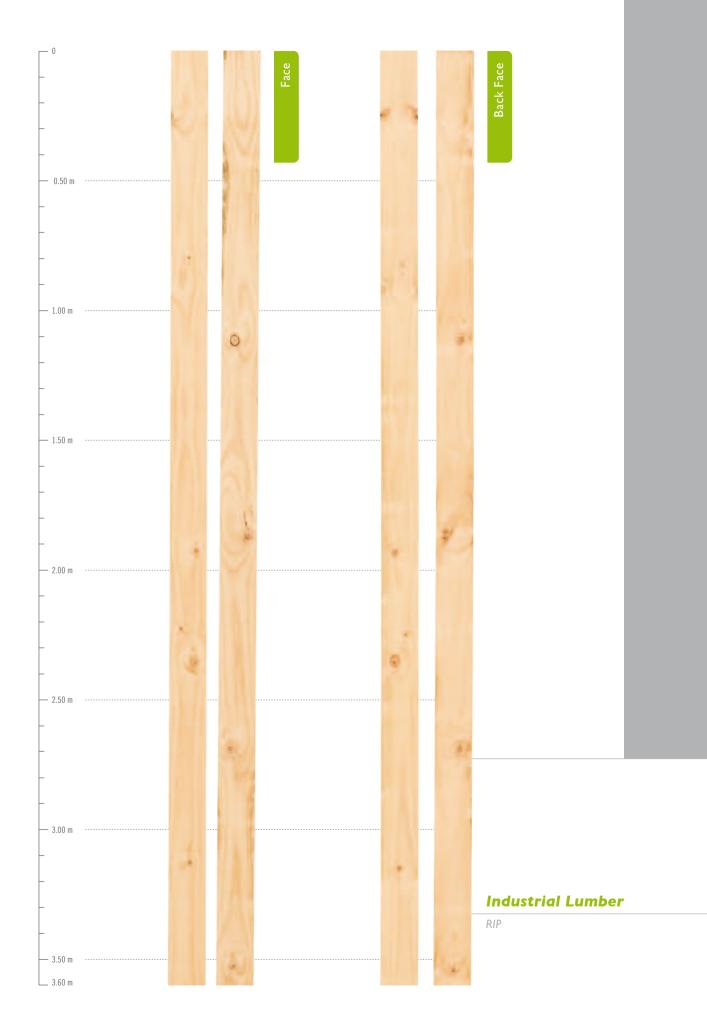
#### Moisture Content

- Average 10%.
- Maximum of 13%.

#### **Applications**

- Door and window components.
- Blanks, finger-joint moulding and boards.





#### RIP

#### Description

Radiata pine wood obtained from the side boards from both pruned and unpruned logs, used in various remanufacturing processes.

#### Grade

- Each piece has in its poor face, 65% Finger-Joint cuttings of N°I and N°2 quality and additional Finger-Joint of 6" inches in length.
- Wane accepted at a maximum of 5% of the area of the piece and at a maximum width of 20%. In the length this defect can be a maximum of 10%.
- Sound and firm knots accepted outside of the classified areas.

#### Sizes

	Thickness Width		Width		l a wadda	
Nominal (in)	Green (mm)	Kiln Dried (mm)	Nominal (in)	Green (mm)	Kiln Dried (mm)	Length (ft)
4/4"	25.4	24.0				01 01 101 111 101
5/4"	38.0	36.5	3" & up	81 & up	77 & up	8' - 9' - 10' - 11' - 12' 13' - 14' - 15' - 16'
6/4"	44.0	42.0				10 - 14 - 10 - 10

#### Tolerance\*

Thickness	Width	Length
(mm)	(mm)	(mm)
-0/+3	-0/ +4	-0/+10

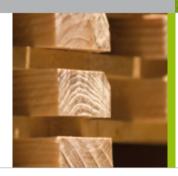
<sup>(\*)</sup> At least 90% of products meet these tolerances.

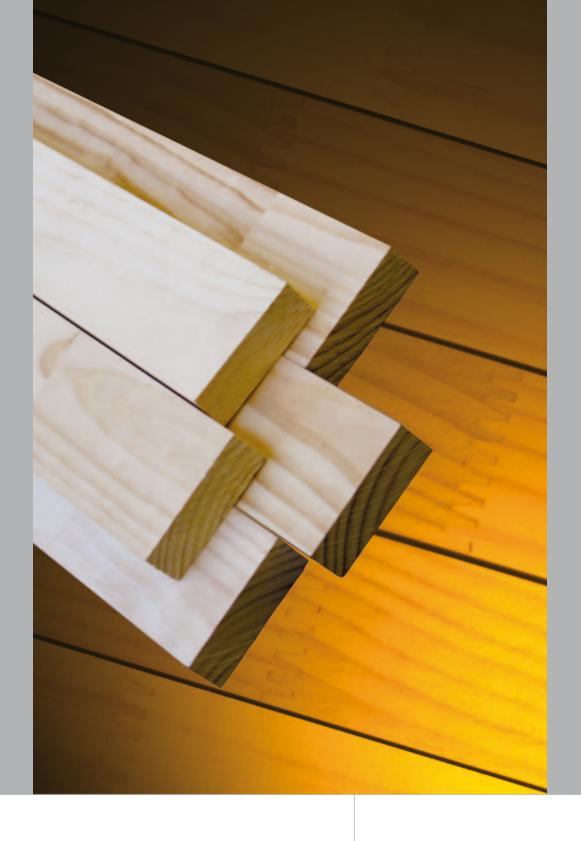
#### Moisture Content

- Average 10%.
- Maximum of 13%.

#### **Applications**

- Door and window components.
- Blanks, finger-joint moulding and boards.





**Industrial Lumber** 

Blanks

#### **BLANKS**

#### Description

Radiata or Taeda pine finger-jointed blanks, available in several thicknesses, widths and lengths suitable for general millwork applications.

#### Grade

- Knots not accepted (unless specified).
- Pith not accepted.
- Free of pin holes.

#### Sizes

Thick	ness	Width				l a wadda
Nominal (in)	Real (mm)	Nominal (in)	Real (mm)	Length (ft)		
3/4"	21.0	2 7/8" to 5 5/8"	74 to 142			
5/4"	33.3	2 1/8" to 5 5/8"	54 to 142	7' up to 20'		
6/4"	39.7	2 3/8" to 5 5/8"	60 to 142			

#### Tolerance\*

Thickness	Width	Length
(in)	(in)	(in)
-0/ +1/16	-0/ +1/12	-0/ +1/2

<sup>(\*)</sup> At least 90% of products meet these tolerances.

#### Moisture Content

• Varies between 8% and 13%.

#### **Applications**

- Finger-joint moulding.
- Edge-glued panels.
- Laminated beams and pillars.





# Packaging & Pallet Lumber

- Stringer & Blocks
- Chamfer
- Standard Lumber





Packaging & Pallet Lumber

Stringer & Blocks

#### **STRINGER & BLOCKS**

#### Description

Radiata pine wood obtained from the central portion of logs, used in the construction of pallets. This product has a long useful life and can be recycled. Its rough finish prevents loads from sliding and also prevents premature wear in the pieces of the pallet that come in contact with the fork lift.

#### Grade

- Blue stain levels are restricted.
- Knots are permitted outside of the nailed area, if they do not compromise the integrity of the piece.

#### Stringer Sizes

Thick	Thickness* Width*		th*	l a wadh *
Green (Nominal mm)	Kiln Dried (Nominal mm)	Green (Nominal mm)	Kiln Dried (Nominal mm)	Length* (mm)
32 & up	31 & up	44 & up	44 & up	680 to 1,300

#### Blocks' Sizes

Thick	ness*	Width*		l on white
Green (Nominal mm)	Kiln Dried (Nominal mm)	Green (Nominal mm)	Kiln Dried (Nominal mm)	Length* (mm)
65 to 100	65 to 100	115 to 154	120 to 200	75 to 190

<sup>(\*)</sup> Measurements subject to confirmation.

#### Tolerance\*

	Thickness (mm)	Width (mm)	Length (mm)
Green	-0/ +3	-2/ +3	-2/ +0
Kiln Dried	-0/ +2.5	-2/ +2	-1/+1

<sup>(\*)</sup> At least 90% of products meet these tolerances.

#### Moisture Content

- Geen lumber: Average moisture content 40%.
- Kiln dried: Average 15%. Maximum 19%.

#### **Applications**

• Base, support and structure of pallets.



## **Packaging** & Pallet Lumber



Packaging & Pallet Lumber

Chamfer

#### **CHAMFER**

#### Description

Radiata pine wood obtained from the central portion of logs, used in the construction of pallets. Its rough finish prevents loads from sliding and also prevents premature wear in the pieces of the pallet that come in contact with the fork lift.

#### Grade

- Blue stain levels are restricted.
- Knots are permitted outside of the nailed area, if they do not compromise the resistance of the piece.

#### Sizes

Thickness Rough		Width Rough		Length
Green (Nominal mm)	Kiln Dried (Nominal mm)	Green Kiln Dried (Nominal mm)		(mm)
17 & up	17 & up	96 & up	93 & up	900 to 1,200

#### Tolerance\*

	Thickness (mm)	Width (mm)	Length (mm)
Green	-0/ +3	-0/+3	-2/ +0
Kiln Dried	-0/ +2.5	-2/ +2	-1/+1

(\*) At least 90% of products meet these tolerances.

#### Moisture Content

- Geen lumber: Average moisture content 40%.
- Kiln dried: Average 15%. Maximum 19%.

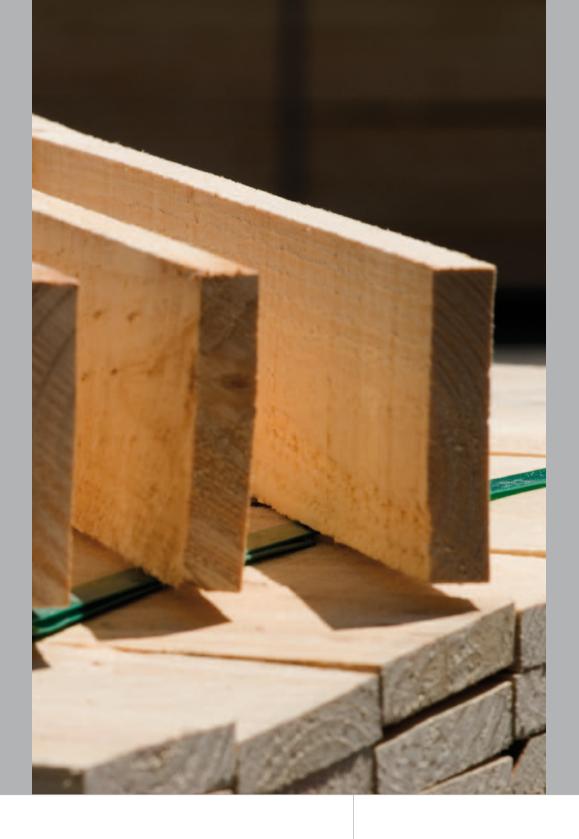
#### **Applications**

• Pallet bases.



## & Pallet Lumber





Packaging & Pallet Lumber

Standard Lumber

#### **STANDARD LUMBER**

#### Description

Dimensioned lumber obtained from the central portion of Radiata pine logs. Ideal for manufacturing pallets and packaging material as its density makes it easier for nailing. The product can be green or kiln dried, and it can be cut to length or in multiples.

#### Grade

- Does not collapse during manipulation.
- Pencil wane accepted occasionally.

#### Sizes

Thickness Rough			dth ugh	Length
Green Rough (Nominal mm)	Kiln Dried (Nominal mm)	Green Rough (Nominal mm) (Nominal mm)		(mm)
11 to 100	11 to 95	48 to 300	45 to 290	900 to 4,880

#### Tolerance\*

	Thickness (mm)	Width (mm)	Cross-Cut Length (mm)	Standard Length (mm)
Green	-0.5/ +2	-0.5/ +3	-2/ +0	-0/ +20
Kiln Dried	-0.5/ +2	-2/ +2	-1/+1	-0/ +20

(\*) At least 90% of products meet these tolerances.

#### Moisture Content

- Geen lumber: Average moisture content 40%.
- Kiln dried: Average 15%. Maximum 19%.

#### **Applications**

- Pallets.
- Packaging materials.



## Packaging

& Pallet Lumber



- Solid Moulding
- Finger Joint Moulding
- Jambs
- EGP
- EGB & Fascia Boards
- Laminated Beams
- Posts







Solid Moulding

## **SOLID MOULDING**

## Description

TruChoice Arauco Solid Moulding is made from 100% clear, solid Radiata pine for a consistently straight, knot-free product. Available in a wide variety of standard and custom profiles, TruChoice Arauco's Solid Moulding is the best choice for trim with a natural or stained appearance.

#### Grade

- Made from 100% Radiata pine.
- Natural light color.
- Smooth, knot-free quality.
- Uniform acceptance of stain.
- Consistently straight.
- Optimal tally for fast installation and less waste RL units heavy on 14'-16' lengths.

#### Sizes

Thickness	Width	Length
(in)	(in)	(ft)
3/8" & up	11/16" & up	up to 16'

#### **Tolerance**

Thickness	Width	Length
(in)	(in)	(in)
+/- 1/128	+/- 1/128	-0/ +1

#### Moisture Content

- Minimum 7%.
- Maximum 13%.

## **Applications**

• Interior trim.







Finger Joint Moulding

## FINGER JOINT MOULDING

#### Description

TruChoice Arauco's Finger-Joint Moulding is precision milled for superior quality and high performance. Available in a wide selection of standard and custom profiles in both Radiata and Taeda pine, TruChoice Arauco Finger-Joint Moulding is a great choice for painted trim applications in residential and commercial projects.

#### Grade

- Wide variety of finishes Raw, single prime, double prime, Ivory and Marble.
- Primed 3 or 4 sides.
- Radiata or Taeda pine.
- Virtually no defects, due to state-of-the-art finger-jointing and moulding processes.

#### **Sizes**

Thickness	Width	Length
(in)	(in)	(ft)
3/8" & up	11/16" & up	up to 20'

#### **Tolerance**

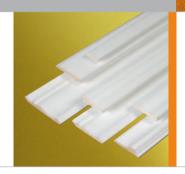
Thickness	Width	Length
(in)	(in)	(in)
+/- 1/128	+/- 1/128	-0/+1

#### Moisture Content

- Minimum 7%.
- Maximum 13%.

#### **Applications**

• Interior trim.







Jambs

## **JAMBS**

## Description

TruChoice Arauco's Jambs and Frames are made from high-quality Radiata pine. Available in a wide variety of options - flat, split, and rabbeted jambs - TruChoice Arauco's Jambs and Frames are the best choice for interior and exterior door applications.

#### Grade

- Made from high-quality Radiata pine.
- Wide variety of finishes Raw, single-prime, double-prime, Ivory.
- Available with Applied Stop and Weather Strip.
- Hinge & Strike Machining Capabilities.

#### Sizes

Thickness	Width	Length
(in)	(in)	(ft)
1/2" & up	2 3/4" & up	up to 20'

#### Tolerance

Thickness	Width	Length	Length PET
(in)	(in)	(in)	(in)
+/- 1/128	+/- 1/128	-0/+1	+/- 1/64

#### Moisture Content

- Minimum 7%.
- Maximum 13%.

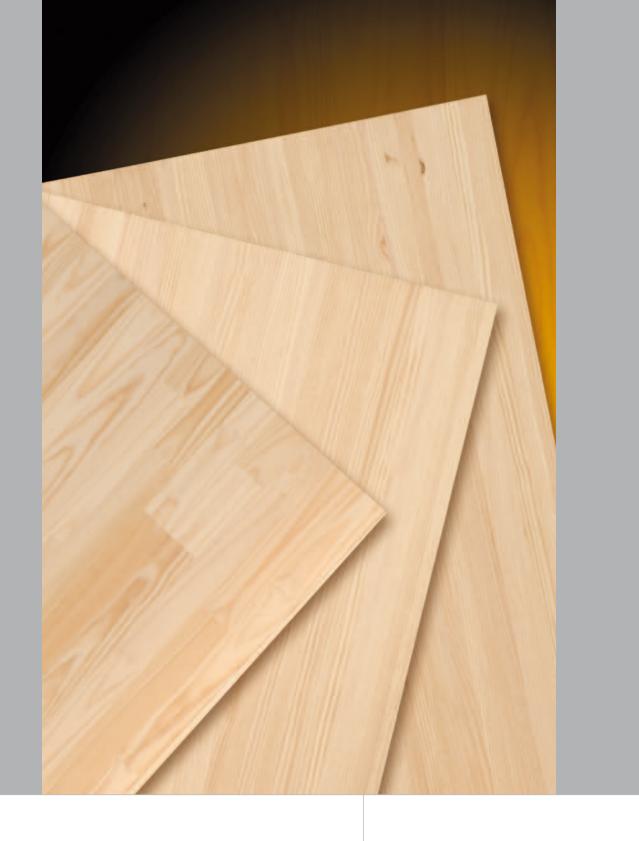
#### **Applications**

• Door frames.



#### Millwork





EGP

## **EGP**

#### Description

Arauco's finger-jointed Edge-Glued Panels (EGP) are manufactured using finger-jointed or solid pieces of Radiata pine. They are available in both clear and knotty grades. The edge-gluing process increases the rigidity and stability of the panel, creating a durable, high quality wood product.

#### Grade

- Flat or vertical grain.
- Product is 100% square edge.
- Free of splits.

#### Sizes

Thickness	Width	Length
(mm)	(mm)	(mm)
16 - 18 - 23 - 25 - 30 - 42	200 & up	1,000 to 5,500

#### **Tolerance**

Thickness	Width	Length
(mm)	(mm)	(mm)
+/- 0.2	-0/+1	-0/+1

#### Moisture Content

• Average 10% for components.

#### **Applications**

- Carpentry.
- Furniture production.



#### Millwork







EGP & Fascia Boards

## **EGB & FASCIA BOARDS**

#### Description

TruChoice Arauco's Edge-Glued Boards are made from Radiata pine for a consistently straight, smooth product. Available in a wide variety of finishes and sizes, TruChoice Arauco's Edge-Glued Boards are the best choice for interior and exterior trim applications.

#### Grade

- Wide variety of finishes raw, single-prime, double-prime, Ivory, Oil Prime, and Rough Sawn.
- Consistently straight.
- Smooth, sanded finish.
- FJ edge-glued with fingers on the edge, not the face.
- Available thicknesses 21/32", 23/32" and 5/4".
- LOSP treatment available for exterior applications.

#### **Sizes**

Thickness	Width	Length
(in)	(in)	(ft)
21/32" & up	1 1/2" & up	up to 20'

#### **Tolerance**

Thickness	Width	Length
(in)	(in)	(in)
-0/ +1/64	-0/ +1/32	-0/+1

#### Moisture Content

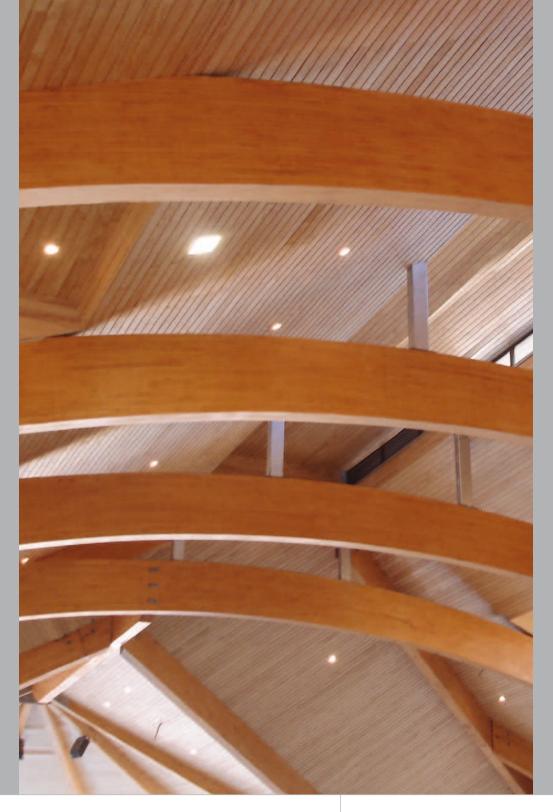
- Minimum 8%.
- Maximum 13%.

#### **Applications**

- Exterior siding.
- Interior paneling.











Laminated Beams

## **LAMINATED BEAMS**

#### Description

Finger-Joint Pine Laminated Structural Products are made from Radiata pine selected for its appearance and strength, and are precision engineered using an exterior, structural-approved glue to provide maximum stability and performance. This product, branded as Hilam in the Chilean market and Truchoice globally, is available in straight or curved formats and in continuous or variable cross-sections.

#### Grade

- Available finishes raw and oil-based primed.
- Available with exterior, structural-approved glue (Urea, Resorcinol).
- Available untreated or H3 treated with a well known, high performance chemical.

#### Sizes

Thickness	Width	Length
(mm)	(mm)	(m)
42 to 300	90 to 1,900	up to 30

#### **Tolerance**

Thickness	Width	Length
(mm)	%	%
+/- 2	-0.5/ +1	+/- 0.03

#### **Applications**

• Structural uses.





Posts

Soft

## **POSTS**

#### Description

Finger-Joint Pine Laminated Posts are made from Radiata pine, selected for its appearance and strength, and are precision engineered to provide maximum stability and performance.

#### Grade

- Available finishes raw and oil-based primed.
- Available with Interior-approved glue for furniture use (PVA-D4).
- Available with exterior, structural-approved glue (Urea, Resorcinol).
- F7 structural grade available, according to AS/NZS 4063.
- Available untreated or H3 treated with a well known, high performance chemical.

#### Sizes

Size (mm)	Length (mm)	
88 x 88	up to 7,200	
90 x 90		
115 x 115		
138 x 138		

#### **Tolerance**

Thickness	Width	Length
(mm)	(mm)	(mm)
-0/ +0.5	-0/ +0.5	-0/ +5

## **Applications**

• Decorative outdoor applications.





Properties

## **Wood Properties**

Property	Radiata	Taeda-Elliotti		
Color	Chestnut brown heartwood and yellowish- white sapwood.	Light yellow-brown heartwood and yellowish-white sapwood.		
Knots	Normally sound, firm, and dark chestnut brown in color.	Heartwood knots sound and firm, sapwood fixed knots that tend to separate.		
Growth Rings	Notorious.	Prominent.		
Fiber	Straight, except in rings close to the pith.	Straight, except in rings close to the pith.		
Texture	Homogenous and fine	Homogenous and fine.		
Odor	Lightly resinous	Pronounced and resinous.		
Nominal Density	Average 450 kg/m³.	Average 500 kg/m³.		
Natural Durability (When not treated)	Category 5. Not durable, useful life is less than 5 years.	Category 5. Not durable, useful life is less than 5 years.		
Permeability	Heartwood and sapwood are easy to treat. Retention >240 kg.m³	Heartwood and sapwood are slightly less permeable than Radiata pine.		
Workability				
Machining	Good	Good		
Painting	Good	Regular		
Nailing	Good	Regular		
Drying	Good	Good		
Treating	Good	Good		





Offices

**Business Offices** 

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## (Programme for the Endorsement of Forest Certification Schemes)

The international Programme for the Endorsement of Forest Certification Schemes (PEFC) endorses national forest certification schemes as meeting certain threshold requirements.

PEFC is the world's largest forest certification endorsement system, recognizing 25 national certification schemes that account for more than 570 million acres (230 million hectares) of certified forests as of December 31, 2010.

# ARAUCO'S **Sustainable Practices**

- 100% of wood from certified, sustainably managed plantation forests.
- No use of native forests.
- Certified to strict CERTFOR forest management standards that are endorsed by international non-profit group PEFC.
- Respect for the rights of indigenous peoples.
- No genetically modified trees.
- Verified legal origin.
- Mills powered by carbon neutral, biomass-generated green power.









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