



FINSA
solutions in wood



An open
door
to a
world
of solutions

WELCOME

“

Doors are an essential part of any decoration project: they bring in warmth and style, as well as define spaces.

Wood has always been the essential material for this type of element.

Discover the solutions in wood available to you to make your product stand out.

*Let's talk
about
doors*

”





FINSA
solutions in wood

An open
door
to a
world
of solutions

Table of contents

Environment and sustainability 04

Trusted supplier

Finsa and the door industry	06
Experience with products	08

Types of product

Faces	14
Cores	18
Special solutions	20
Stiles and rails	24

Technical information

Fire resistance	26
Technical data	28
Recommendations and certifications	34

ENVIRONMENT AND SUSTAINABILITY

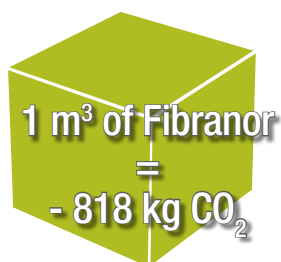
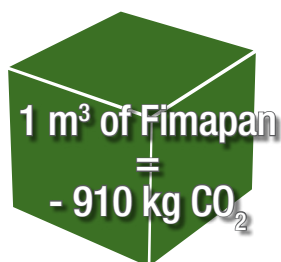


Transparency: Ecological product footprint

In 2011, FINSA became the first technical wood manufacturer on the Iberian Peninsula providing the Environmental Product Declaration (EPD) for its products.

The EPD is a tool for conveying clear and transparent information on the impact of a given product upon the environment during every stage of its life cycle.

In the case of our products, it confirms that wood is a material that keeps capturing greenhouse gases throughout our entire production process.



LEED Credits: Sustainable construction

With our products, you can get LEED credits in different areas:

- Recycled content
- Regional materials
- Rapidly renewable materials
- Certified wood
- Low-emission materials



Certifications: wood from sustainable forests

The Chain of Custody certifies the route of the raw materials from the forest to the consumer / customer, including all stages of the process; ie, it warrants that the products you purchase are made with materials from sustainably managed forests.

This warranty is materialized through the PEFC and FSC certificates, affecting the production and marketing of wood-based products.



FINSA AND THE DOOR INDUSTRY

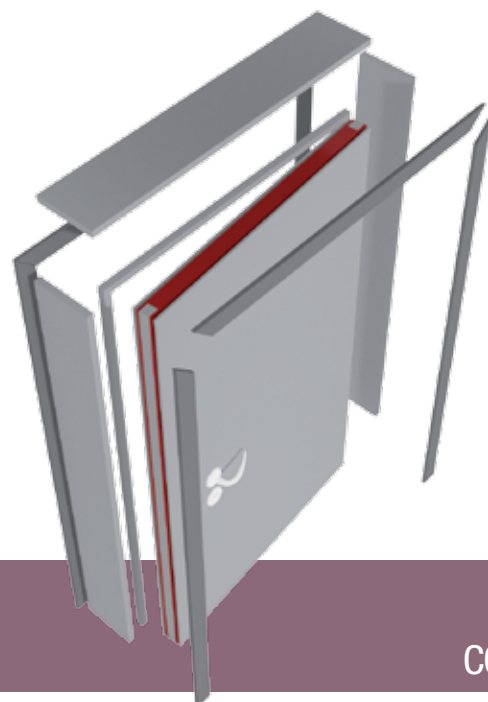


“

Finsa has extensive experience in the supply of wood products specifically designed for door manufacturers.

”

4 TYPES OF PRODUCTS





FINSA
solutions in wood

FINSA YOUR TRUSTED SUPPLIER



Our customers

Our customers endorse us. We work with the main international groups.



Knowledge of the industry

Specially developed products for the door industry.



International presence

Global international presence and logistics.



Customer service

Customer service department, always available to our customers for any questions.



R + D + i

Strong capacity for innovation and R & D.

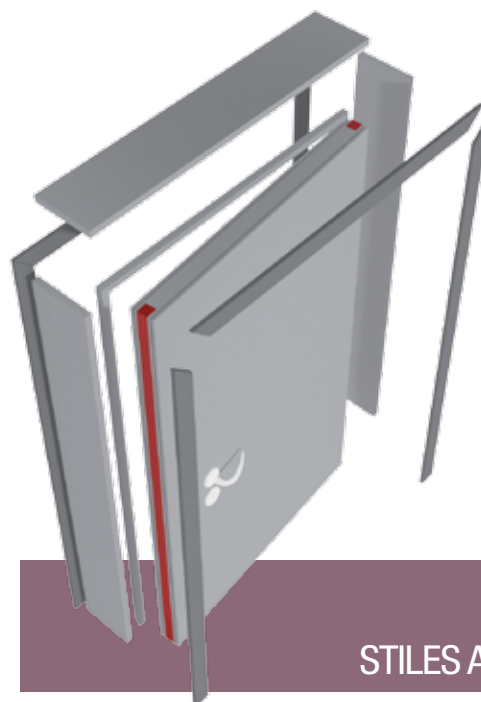


Environment and sustainability

Committed to the environment and sustainable development.



**SPECIAL
SOLUTIONS**



STILES AND RAILS

EXPERIENCE WITH PRODUCTS



Porta

Porta KMI Poland Poland

www.porta.com.pl

About the company

Porta KMI Poland was founded in 1992 and is one of the leading manufacturers of doors and profiles for the construction sector. It has six production units in Poland and Romania, with a monthly output of more than 65,000 full doors, and over 1,000 authorized retail outlets across the country.

Sylwester Osojca Head of Product Development at Porta

"Porta was the first company in Central Europe to use Finsa's **44mm Iberpan** for making frames in 2004 and 2005. With this decision, we eliminate the need to glue two 22-mm boards together, which was always a complicated process. Moreover, we generally use **35mm Iberpan** to make the door rails"

"As a provider, Finsa offers us a high-quality and very stable product. It is able to adapt its products to meet customer needs and offers special advanced technological solutions for the door industry. Additionally, it also provides a service to professional customers and a safe supply"



Porta



Porta



Porta

“

Finsa is able to adapt its products to meet customer needs and offers special advanced technological solutions for the door industry.

”



Porta

EXPERIENCE WITH PRODUCTS



“Superpan Star provides an additional advantage by improving the absorption of lacquer”

Vasco Silva
Manager

“At the Carpintaria Irmãos Pinto Silva, we use Superpan Star to produce our doors since it was launched in the market in early 2013. With this product we manufacture lightweight quality doors, by directly gluing a wooden frame to the board. With this we also get substantial savings comparing with traditional bonding process of the core of the door to the surfaces.

Furthermore, in the case of our production of lacquered doors, Superpan Star provides an additional advantage by improving the absorption of lacquer”

Carpintaria Irmãos Pinto Silva (CIPS) Portugal

www.cips.pt

About the company

With flexible manufacturing, aimed at customized production, CIPS is positioned as a door manufacturer for different types of buildings, such as hotels, schools, hospitals and residential buildings.

Reference projects: refurbishment of the headquarters of the Bank of Portugal; facilities of the Champalimaud Foundation; the Maternal and Child Center of the North, and various schools.

“With Superpan Star, we manufacture very lightweight quality doors, by directly gluing a wooden frame to the board.”

”

Trusted supplier



Brüchert+Kärner

Brüchert + Kärner

Germany

www.schoene-tueren.com

About the company

Brüchert + Kärner is a family business in Hamburg (Germany), founded in the 1930s by engineer Hermann Brüchert and his nephew Ludwig Kärner.

At present, about 150 people work for the company manufacturing all sorts of different products.

Mr. Anbuhl

Sales director Germany

"For many years, we've used Finsa's Moisture-resistant Iberpan to manufacture our white lacquered doors. The homogeneous and consistent quality of the panels ensures great results for our production and is the basis of our high added value products. Their homogeneous density profile ensures optimum coating stability.

This product feature is a compelling reason to choose them for our production, especially when producing doors thicker than 30 mm that include deep machining.

Thanks to the Vlissingen logistics centre, we can count on a fast and reliable supply"



Brüchert+Kärner



José Manuel Pombo Diz

Manager

"At Pomarco, we use Fibranor FB for the outer surfaces of all our doors.

Due to its high stability, it is the ideal material for both veneered and lacquered doors. In the latter case, its optimal surface ensures a high-quality finishing work"

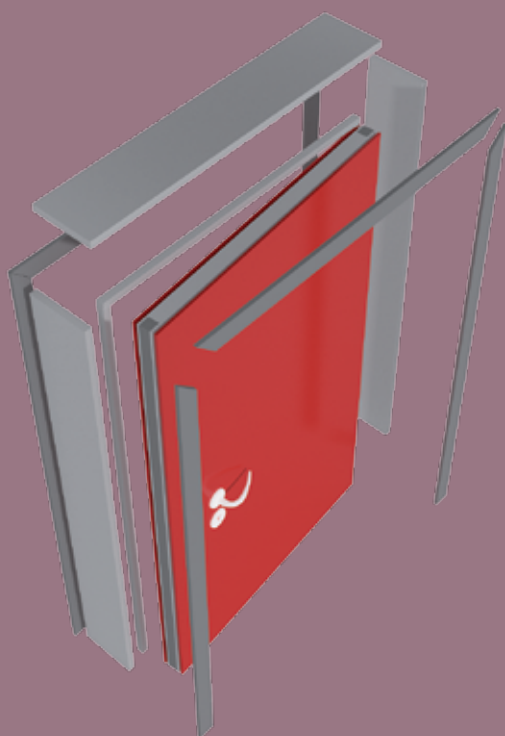
Pomarco S.L.
Spain

www.pomarco.es

About the company

Pomarco was founded in 1987 and since then it has been a company committed to continuous innovation. Its offer is especially geared towards the manufacture of wooden doors with excellent value for money, which our customers can customize and adapt to their particular needs.

FACES



Faces The decorative

They are the most visible part of a door, where a large part of its decorative features are concentrated.

The ideal materials for faces have high dimensional stability, good flatness and a smooth surface that offers multiple coating possibilities.

Possibility of being cut to size

At our facilities, we have the ability to offer customized cutting service, with +/- 1-mm tolerance.

Please contact our sales network.

Raw



Fibranor

Thin MDF

Fibranor PI

Fibranor FB

Designed for lacquering

Fibranor Exterior

For exterior doors



Fibranor: thin MDF board for general application in any type of door and veneer coating or synthetic surfaces (finish foil, PVC, CPL)

Fibranor PI: special thin MDF board for lacquering or painting.

Fibranor FB: special thin MDF board for lacquering or painting with higher density.

Fibranor Exterior: thin MDF board, highly resistant to humidity and to temperature changes. Recommended for exterior doors.

FORMATS

Fibranor

Format (mm)	Thickness (mm)	2	2,5	3	4	5	6
2440x1220		●	●	●	●	●	●
2440x1830			●	●	●	●	●
2440x2100			●	●	●	●	●
2050x640				●		●	
2050x740				●		●	
2050x840				●		●	
2050x940				●		●	

Fibranor PI

Fibranor FB

Fibranor Exterior

Please contact our sales network

TYPES OF PRODUCT



Painted



Melamine

Fibraprint Vista Fibraprint Prensa

Printed MDF

Fibraplast Prensa

Melamine MDF

Fibraprint Vista: painted MDF panel with sealant, three layers of undercoat, printing and varnish. Recommended for painted doors ready to be installed.

Fibraprint Prensa: painted MDF panel with sealant, three layers of undercoat. Recommended for pre-painted doors, to be finished onsite later.

MDF faced with a resin-impregnated decorative paper with a kraft paper balancer.

In the Gama Duo there are more than 170 decors and 7 finishes to choose from.

FORMATS

Fibraprint Vista

Select range:
minimum 2000 m.

Infinity range:
minimum 6000 m.

Fibraprint Prensa

White or cream,
minimum 2,000 m

HIGHLIGHTS

Fibraprint Prensa resists pressing cycles over 4 minutes at temperatures between 90 and 110°C.

FORMATS

Fibraplast Prensa

Thickness (mm)	3	4	5	6
Format (mm)				
2440x1220	●	●	●	●
2440x2100	●	●	●	●

For other formats, please contact our sales network
Minimum DUO Range designs 100 boards

HIGHLIGHTS

Abrasion resistance according to standard EN 14323:
Unicolours and AH: Class 3A
Other: Class 1

FACES



Natural Veneer

Fibranatur Veneered MDF

Thin Fibranatur: MDF board covered with natural veneer.

FINSA offers a vast range of veneers faces, especially selected according to the customer's requirements. See our door-size veneered board offer.

FORMATS

Format (mm)	Thickness (mm)
	4
2440x2100	●
2050x640	●
2050x740	●
2050x840	●
2050x940	●

For other formats, please contact our sales network

HIGHLIGHTS

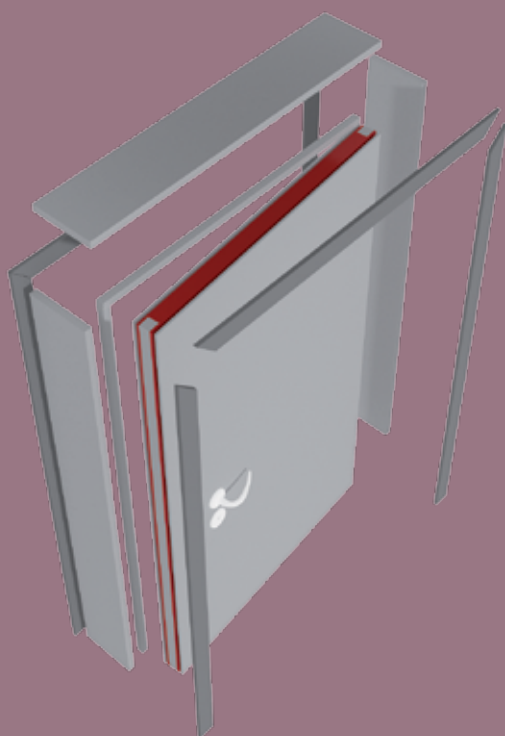
- Natural veneers: qualities PLUS /SELECT
- Painted veneers
- Precomposed veneers



Ezcurra y Ozuande Arquitectura



CORES



Cores Door interiors

They provide most of the mechanical features of a door. Properties such as thermal or acoustic insulation, fire resistance or the weight of the door will be strongly influenced by the choice of the core material.

For this purpose, materials with high strength and low weight are ideal.

Possibility of being cut to size

At our facilities, we have the ability to offer customized cutting service, with +/- 1-mm tolerance.

Please contact our sales network.



Fimapan Chipboard

Fimapan Fire-retardant Fire-retardant chipboard



Fimapan: standard density wood chipboard.

Fimapan Fire-retardant: wood chipboard with improved fire reaction (classification B-s2,d0 according to standard EN 13501)

FORMATS

● Fimapan
● Fimapan FR

Thickness (mm) Format (mm)	10	16	19	25	30	35	40
2440x1220	●●	●●	●●	●	●		
2440x2100	●	●	●	●	●	●	●
2850x2100	●●	●●	●●	●	●		●
3660x1830	●	●	●		●		
3660x2100	●	●	●		●		

For other formats, please contact our sales network

HIGHLIGHTS

Fimapan
Density: 600 kg/m³

Fimapan Fire-retardant
Density: 660 kg/m³

Classification B-s2, d0
according to standard EN
13501

TYPES OF PRODUCT



Fimapan Lit Fimapan Ultralight

Light chipboard

Fimapan Lit: light wood chipboard.

Fimapan Ultralight: very light wood chipboard.



Iberpan 300

Very light wood fibreboard

Iberpan 300: very light wood fibreboard

FORMATS

Fimapan Lit
Fimapan Ultralight

Please contact our sales network

HIGHLIGHTS

Fimapan Lit
Density: 580 kg/m³

Fimapan Ultralight
Density: 500 kg/m³

FORMATS

Iberpan 300

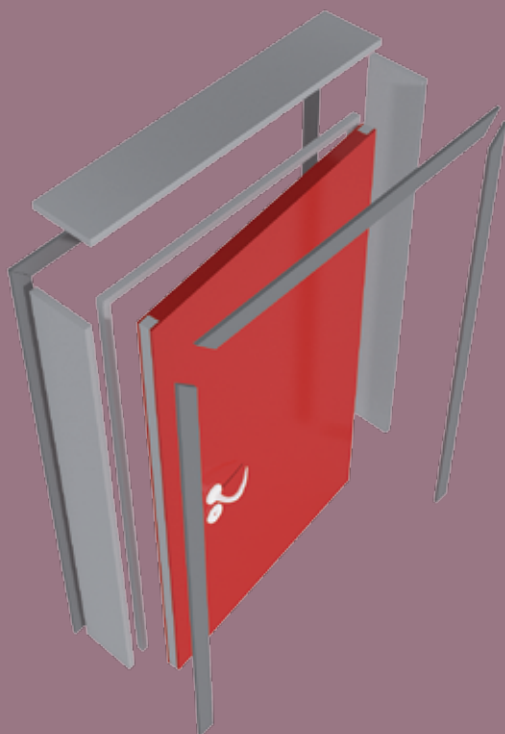
Thickness (mm)	29	34	38	44	48
Format (mm)	2460x2070	●	●	●	●

For other formats, please contact our sales network

HIGHLIGHTS

Density: 330 kg/m³

SPECIAL SOLUTIONS



Special Solutions All in one

These products provide a complete solution in terms of cores and faces, avoiding intermediate processes and their associated costs.

They can be coated with a variety of decorative surfaces: wood veneer, CPL, PVC or melamine.

Possibility of being cut to size

At our facilities, we have the ability to offer customized cutting service, with +/- 1-mm tolerance.

Please contact our sales network.



EXCLUSIVE

SuperPan SuperPan Top Special baseboard

Superpan: wood-based board made of wood fibre outer surfaces and a chipboard core.

Superpan Top: Superpan board with minimum 4-mm thick wood fibre outer surfaces.

FORMATS

Thickness (mm)		25	28	30
Format (mm)	2440x1220	●		●
	2500x1830			●
	2600x1830	●	●	●
	2600x2100	●	●	●
	2750x1830			●
	2550x2010			●

For other formats, please contact our sales network

HIGHLIGHTS

Superpan: is protected by Patent No.99966972.4 (European Patent Office)

Superpan: Density 600 kg/m³

Superpan Top: Density 680 kg/m³



Superpan Star Superpan Star Suprem

Special light board

Superpan Star: wood-based board made of wood fibre outer surfaces and a wood chipboard inner core combined with a synthetic polymer.

Superpan Star Suprem: Superpan Star board with minimum 3-mm-thick wood fibre outer surfaces.

AWARDED BY DESIGN IN
MANUFACTURING AWARDS 2012
BIRMINGHAM



FORMATS

Superpan Star

Thickness (mm)	30	35	40	44
Format (mm)	●	●	●	●
2600x2100	●	●	●	●

For other formats, please contact our sales network

Superpan Star Suprem

Please contact our sales network

HIGHLIGHTS

Superpan Star is a joint development by FINSA and BASF, which combines the Superpan and Kaurit Light patented technologies

Superpan Star: Density 450 kg/m³

Superpan Star Suprem: Density 480kg/m³

Finlight

Light MDF sandwich board

Light wood-based board made of 3-mm MDF outer surfaces and very light wood fibre inner core.



CONSTRUCTION PRODUCTS ASSOCIATION
UK 2010 AWARD

FORMATS

Finlight

Thickness (mm)	30	35	38	40	45	50	60
Format (mm)	●	●	●	●	●	●	●
2440x2050	●	●	●	●	●	●	●
2830x2050			●			●	

For other formats, please contact our sales network

HIGHLIGHTS

Density 410 kg/m³

SPECIAL SOLUTIONS



Iberpan 400

Lightweight fibreboard

Very light wood fibre board,
manufactured in a single production
process.

FORMATS

Iberpan 400

Thickness (mm)	30	35	40	45	50	60
Format (mm)	2440x2050	●	●	●	●	●

For other formats, please contact our sales network

HIGHLIGHTS

Density: 410 kg/m³



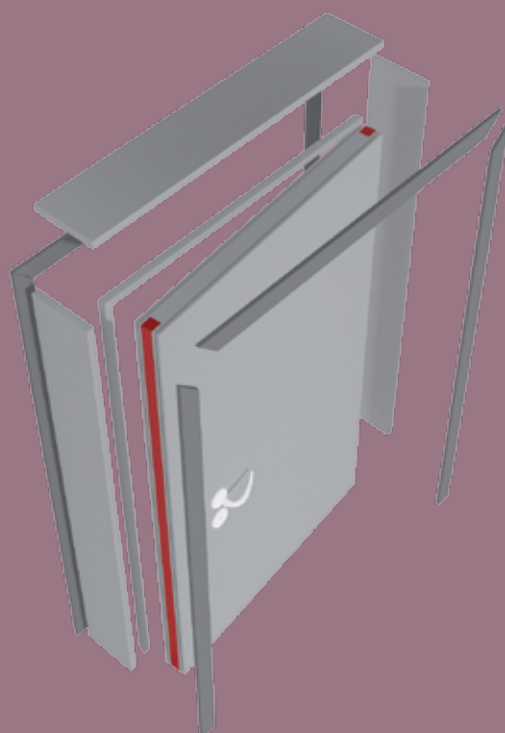
Brüchert & Kärner

TYPES OF PRODUCT



Types of product

STILES AND RAILS

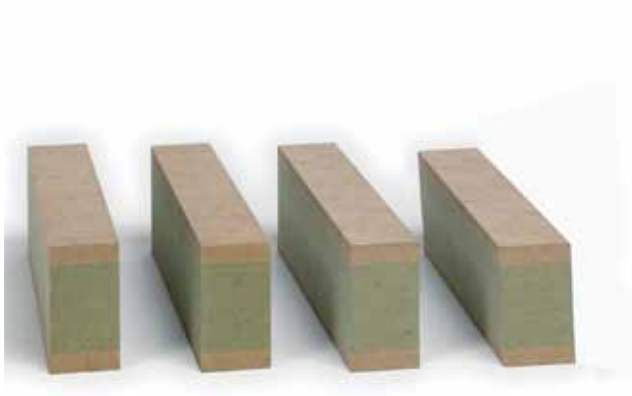


Stiles and rails

The reinforcing structure

The frame strengthens the door edge in order to be able to introduce the hardware.

The ideal materials for this application should have good values as far as screw-hold, good dimensional stability and calibration are concerned, along with low variability regarding nominal dimension values.



Iberpan Strip

Iberpan Plus Strip

Iberpan H Strip

MDF strips



Specially designed for the door industry, with high stability and very low dimensional tolerance.

Iberpan Strip: made of standard MDF baseboard
Iberpan Plus Strip: made of higher density MDF baseboard
Iberpan H Strip: made of moisture resistant MDF baseboard

FORMATS

Customized service
Please contact our sales network

Maximum length	5.800 mm
Minimum length	540 mm
Maximum width	350 mm
Minimum width	30 mm

HIGHLIGHTS

Compared to solid wood, MDF strips provide a more homogeneous solution, free of knots and readily available.



FIRE RESISTANCE



Fire resistance

It measures the ability of the construction elements to withstand a fully developed fire in terms of:

R: bearing capacity
E: integrity
I: insulation

According to Standard EN 13501-2 "Classification of fire resistance of building elements, fire resistance is determined by exposing the construction element to increasing temperatures over time and is expressed as the time that the element is able to fulfill the function for which it has been installed."

For example, an EI 60 door is able to preserve its integrity and insulation intact for 60 minutes.

Certified doors with Finsa materials

Finsa currently supplies materials for certified fire-resistant doors. Among these, you can find:



Superpan y Fimapan
For EI 30 doors



Fimapan Fire retardant
For EI 60 and EI 90 doors



Puertas Dayfor



Puertas Dayfor

“

Safety comes first,
and
in case of fire every
second counts.
We offer
certified solutions
for fire-resistant doors.

”

TECHNICAL DATA

MORE INFORMACIÓN

Datasheets are available
on our website www.finsa.com.



All FINSA products comply with E1 classification regarding low formaldehyde content according to standards:

EN 312 for wood chipboards
EN 622 for wood fibreboards
EN 14322 for melamine-coated boards.

These values have been analyzed by the method described in standard EN 120.

*The sound insulation data mentioned in the technical data sheets are calculated according to European Standard EN 13986, and are valid for frequencies between 1 and 3 kHz.

FIBRANOR / FIBRANOR PI

TEST	PROPERTY	THICKNESS (mm)			UNITS
		1,8/2,5	>2,5/4	>4/6	
EN 323	Density <small>(orientative information)</small>	850	825	800	kg/m ³
EN 319	Internal bond	0,9	0,9	0,85	N/mm ²
EN 310	Bending strength	38	38	38	N/mm ²
EN 310	Modulus of elasticity	-	-	2700	N/mm ²
EN 317	Swelling in water 24 hours	45	35	28	%

These physical and mechanical values improve/comply with the values specified in European Standard EN 622-5:2006, Table 3. - Requirements for boards for general use in dry environments.

FIBRANOR is covered by AITIM Quality stamps 9-3-05 and 9-3-06.

FIBRANOR FB

TEST	PROPERTY	THICKNESS (mm)			UNITS
		1,8/2,5	>2,5/4	>4/6	
EN 323	Density <small>(orientative information)</small>	920	890	880	kg/m ³
EN 319	Internal bond	1,6	1,6	1,5	N/mm ²
EN 310	Bending strength	40	40	40	N/mm ²
EN 310	Modulus of elasticity	3000	3000	3000	N/mm ²
EN 317	Swelling in water 24 hours	40	32	22	%

These physical and mechanical values improve/comply with the values specified in European Standard EN 622-5:2009, Table 3. -Requirements for boards used in dry environments.

FIBRANOR EXTERIOR

TEST	PROPERTY	THICKNESS (mm)			UNITS
		1,8/2,5	>2,5/4	>4/6	
EN 323	Density <small>(orientative information)</small>	850	850	825	kg/m ³
EN 319	Internal bond	1,6	1,6	1,5	N/mm ²
EN 310	Bending strength	38	38	38	N/mm ²
EN 310	Modulus of elasticity	3000	3000	3000	N/mm ²
EN 317	Swelling in water 24 hours	25	22	18	%

These physical and mechanical values improve/comply with the values specified in European Standard EN 622-5:2009, Table 4, Option 1. Requirements for boards for general use in humid environments (Type MDF.H). FIBRANOR EXTERIOR is made from formaldehyde-free resins

EXTERIOR FIBRAPAN has NAF-CARB Appr certification N-10-079- and complies with phase 2 low-formaldehyde.

FIBRAPRINT VISTA

TEST	PROPERTY	THICKNESS (mm)		UNITS
		>2,5/4	>4/6	
EN 323	Density <small>(orientative information)</small>	825	800	kg/m ³
EN 319	Internal bond	0,9	0,85	N/mm ²
EN 310	Bending strength	38	38	N/mm ²
EN 310	Modulus of elasticity	-	2700	N/mm ²
EN 317	Swelling in water 24 hours	35	28	%

COATING

EN ISO 868	Shore D Hardness	SHORE	>65
EN ISO 2409	Cross-cut	DEGREE	2
EN ISO 2812/1	Fluid resistance: Acetone	DEGREE	2
EN ISO 2812/1	Fluid resistance: Soda 10%	DEGREE	2

TECHNICAL DATASHEETS

FIBRAPRINT PRENSA

TEST	PROPERTY	THICKNESS (mm)		UNITS
		>2,5/4	>4/6	
EN 323	Density <small>(orientative information)</small>	825	800	kg/m ³
EN 319	Internal bond	0,9	0,85	N/mm ²
EN 310	Bending strength	38	38	N/mm ²
EN 310	Modulus of elasticity	-	2700	N/mm ²
EN 317	Swelling in water 24 hours	35	28	%

COATING

EN ISO 2409	Cross-cut	DEGREE	2
-------------	-----------	--------	---

VISUAL DEFECTS

		CLASS	IP NUMBER OF TURNS	WR NUMBER OF TURNS
EN 14323	Abrasion resistance	1	<50	<150

Primed MDF resistant to 4-minute pressing cycles at 100°C without its properties being altered

FIBRAPLAST PRENSA

TEST	PROPERTY	THICKNESS (mm)			UNITS
		1,8/2,5	>2,5/4	>4/6	
EN 323	Density <small>(orientative information)</small>	850	825	800	kg/m ³
EN 319	Internal bond	0,9	0,9	0,85	N/mm ²
EN 310	Bending strength	38	38	38	N/mm ²
EN 310	Modulus of elasticity	-	-	2700	N/mm ²

COATING

EN 14323	Scratch resistance	N	≥ 1.5
EN 14323	Crack resistance	DEGREE	≥ 3
EN 14323	Surface finishing appearance	DEGREE	4
EN 14323	Stain resistance (groups 1 and 2)	DEGREE	5
EN 14323	Stain resistance (group 3)	DEGREE	4

VISUAL DEFECTS

		CLASS	IP NUMBER OF TURNS	WR NUMBER OF TURNS
EN 14323	Abrasion resistance. Designs	1	<50	<150
	Abrasion resistance. Unicolors and AH finishing	3A	≥150	≥350

Baseboard: FIBRANOR

FIBRANATUR

TEST	PROPERTY	THICKNESS (mm)			UNITS
		1,8/2,5	>2,5/4	>4/6	
EN 323	Density <small>(orientative information)</small>	850	825	800	kg/m ³
EN 319	Internal bond	0,9	0,9	0,85	N/mm ²
EN 310	Bending strength	38	38	38	N/mm ²
EN 310	Modulus of elasticity	-	-	2700	N/mm ²

VISUAL DEFECTS

EN 14323	Damage to edges	mm/m	≤ 10
	Lack of veneer in the edges	%	0,8

COATING

		CLASS	IP NUMBER OF TURNS	WR NUMBER OF TURNS
EN 14323	Abrasion resistance	4	>350	≥1000

Baseboard: FIBRANOR

The veneered thickness is defined as the support thickness plus one millimeter (theoretical veneer thickness).

FIMAPAN

TEST	PROPERTY	THICKNESS (mm)				UNITS
		>20/25	>25/32	>32/40	>40	
EN 323	Density <small>(orientative information)</small>	620/605	590/580	575/560	550	kg/m ³
EN 319	Internal bond	0,30	0,25	0,20	0,20	N/mm ²
EN 310	Bending strength	10,5	9,5	8,5	7	N/mm ²
EN 310	Modulus of elasticity	1500	1350	1200	1050	N/mm ²
EN 317	Swelling in water 2 hours	6	6	6	6	%
EN 13986	Airborne sound insulation *	29,0	30,0	31,1	31,5	dB

These physical and mechanical values comply with the P2 classification defined under European standard EN 312:2010, Table 3. -Boards for indoor applications (including furniture) for use in dry environment (Type P2) -Requirements for the specified mechanical properties.

FIMAPAN FIRE-RETARDANT

TEST	PROPERTY	THICKNESS (mm)			UNITS
		>20/25	>25/32	>32/40	
EN 323	Density <small>(orientative information)</small>	695	675	660	kg/m ³
EN 319	Internal bond	0,20	0,17	0,14	N/mm ²
EN 310	Bending strength	10	8,5	7	N/mm ²
EN 317	Swelling in water 2 hours	6	6	6	%
EN 13986	Airborne sound insulation *	29,6	30,8	32,0	dB

FIRE-RETARDANT FIMAPAN is covered by the AITIM Quality Seal.
FIRE-RETARDANT FIMAPAN has CE Mark certified by AENOR under No. 0099/CPD/A65/0021.

FIMAPAN LIT

TEST	PROPERTY	THICKNESS (mm)		UNITS
		>20/25	>25/32	
EN 323	Density <small>(orientative information)</small>	590	580	kg/m ³
EN 319	Internal bond	0,20	0,17	N/mm ²
EN 310	Bending strength	10	8,5	N/mm ²
EN 310	Modulus of elasticity	1100	1100	N/mm ²
EN 317	Swelling in water 2 hours	6	6	%
EN 13986	Airborne sound insulation *	28,7	29,9	dB

These physical and mechanical values comply with the P1 classification defined under European standard EN 312:2010, Table 2. -Boards for general use in dry environments (Type P1)-Requirements for the specified mechanical properties.

FIMAPAN ULTRALIGHT

TEST	PROPERTY	THICKNESS (mm)		UNITS
		>19/30	>30	
EN 323	Density <small>(orientative information)</small>	520	500	kg/m ³
EN 319	Internal bond	0,20	0,20	N/mm ²
EN 310	Bending strength	6	5	N/mm ²
EN 310	Modulus of elasticity	1000	900	N/mm ²
EN 317	Swelling in water 2 hours	6	6	%
EN 13986	Airborne sound insulation *	28,5	29,3	dB

TECHNICAL DATASHEETS

SUPERPAN

TEST	PROPERTY	THICKNESS (mm)				UNITS
		>20/25	>25/32	>32/40	>40	
EN 323	Density <small>(orientative information)</small>	610	610	600	600	kg/m ³
EN 319	Internal bond	0,30	0,25	0,20	0,20	N/mm ²
EN 310	Bending strength	13	12	11	10	N/mm ²
EN 310	Modulus of elasticity	1800	1500	1300	1150	N/mm ²
EN 13986	Airborne sound insulation *	28,9	30,2	31,4	31,9	dB

These physical and mechanical values comply with the P2 classification defined under European standard EN 312:2010, Table 3. -Boards for indoor applications (including furniture) for use in dry environment (Type P2) -Requirements for the specified mechanical properties. SUPERPAN Quality is covered by the AITIM Quality Seal: 2-4-05 and 2-5-04.

SUPERPAN TOP

TEST	PROPERTY	THICKNESS (mm)		UNITS
		>25/32	>32/40	
EN 323	Density <small>(orientative information)</small>	680	680	kg/m ³
EN 319	Internal bond	0,30	0,25	N/mm ²
EN 310	Bending strength	25	23	N/mm ²
EN 310	Modulus of elasticity	2500	2300	N/mm ²
EN 13986	Airborne sound insulation *	30,8	32,1	dB

MDF surface thickness = 4mm

SUPERPAN STAR

TEST	PROPERTY	THICKNESS (mm)				UNITS
		>20/25	>25/32	>32/40	>40/44	
EN 323	Density <small>(orientative information)</small>	500	450	450	450	kg/m ³
EN 319	Internal bond	0,30	0,25	0,20	0,20	N/mm ²
EN 310	Bending strength	10,5	9,5	8,5	7	N/mm ²
EN 310	Modulus of elasticity	1500	1350	1200	1050	N/mm ²
EN 13986	Airborne sound insulation *	27,8	28,5	29,8	30,3	dB

These physical and mechanical values comply with the P2 classification defined under European standard EN 312:2010, Table 3. -Boards for indoor applications (including furniture) for use in dry environment (Type P2) -Requirements for the specified mechanical properties

FINLIGHT

TEST	PROPERTY	THICKNESS (mm)				UNITS
		>30-45	>30-45	>45-60	>45-60	
EN 323	Density <small>(orientative information)</small>	410/380	470/420	380/360	420/390	kg/m ³
EN 319	Internal bond	0,06	0,06	0,06	0,06	N/mm ²
EN 310	Bending strength	5	5	5	5	N/mm ²
EN 310	Modulus of elasticity	1300	1300	1200	1200	N/mm ²
EN 317	Swelling in water 24 hours	10	8	9	7	%
EN 13986	Airborne sound insulation *	29,5	30,3	31,0	31,5	dB
	MDF surface thickness	3	6	3	6	mm

IBERPAN 300 as inner layer.

IBERPAN 400

TEST	PROPERTY	THICKNESS (mm)				UNITS
		>30/40	>40/45	>45/60	>60/70	
EN 323	Density <small>(orientative information)</small>	400/420	400/420	400/420	400/420	
EN 319	Internal bond	0,12	0,10	0,10	0,10	N/mm ²
EN 310	Bending strength	12	10	10	10	N/mm ²
EN 310	Modulus of elasticity	1300	1300	1200	1200	N/mm ²
EN 317	Swelling in water 24 hours	12	12	10	10	%
EN 13986	Airborne sound insulation *	29,0	30,2	31,4	32,5	dB

IBERPAN (STRIP)

TEST	PROPERTY	THICKNESS (mm)			UNITS
		>30/45	>45/60	>60/70	
EN 323	Density <small>(orientative information)</small>	680	675/640	610	
EN 319	Internal bond	0,55	0,50	0,50	N/mm ²
EN 310	Bending strength	20	17	16	N/mm ²
EN 310	Modulus of elasticity	2000	1800	1700	N/mm ²
EN 317	Swelling in water 24 hours	8	6	6	%

These physical and mechanical values meet/improve the values set forth in European Standard EN 622-5:2006, Table 3. -Requirements for boards used in dry environments. The quality of IBERPAN is covered by the AITIM Quality Seal: 9-5-05, 2-4-06.

IBERPAN PLUS (STRIP)

TEST	PROPERTY	THICKNESS (mm)			UNITS
		>30/45	>45/60	>60/70	
EN 323	Density <small>(orientative information)</small>	720	720	720	
EN 319	Internal bond	0,55	0,50	0,50	N/mm ²
EN 310	Bending strength	22	19	18	N/mm ²
EN 310	Modulus of elasticity	2200	2000	1900	N/mm ²
EN 317	Swelling in water 24 hours	8	6	6	%

These physical and mechanical values meet/improve the values set forth in European Standard EN 622-5:2009, Table 3. -Requirements for boards used in dry environments. The quality of IBERPAN PLUS is covered by the AITIM Quality Seal: 9-3-03.

IBERPAN H (STRIP)

TEST	PROPERTY	THICKNESS (mm)			UNITS
		>19/30	>30/45	>45/60	
EN 323	Density <small>(orientative information)</small>	730/695	730/675	700/650	
EN 319	Internal bond	0,75	0,70	0,60	N/mm ²
EN 310	Bending strength	22	21	19	N/mm ²
EN 310	Modulus of elasticity	2300	2300	2200	N/mm ²
EN 317	Swelling in water 24 hours	7	7	6	%

These physical and mechanical values comply with the values set forth in European Standard EN 622-5:2009, Table 4, Option 1. Requirements for boards for general use in humid environments (Type MDF.H). The quality of Iberpan H is covered by the AITIM Quality Seals: 9-04-07; 9-4-08, 9-4-09, and 24-3-01.

RECOMMENDATIONS AND CERTIFICATIONS

RECOMMENDATIONS

ACCLIMATIZATION

Being wood-based products, their moisture content is dependent upon the ambient temperature and humidity. This implies dimensional variations, always within the specifications set forth in the technical datasheet.

Before processing, it is mandatory to let it get adapted to the environment for at least 48 hours before use.

RECOMMENDATIONS IN TERMS OF TRANSPORT , STORAGE AND HANDLING

Wood-based boards should be carefully transported and stored in compact stacks and resting upon a suitable flat base. Check to make sure that all the runners are placed in the same position and aligned to avoid any deformation of the board. We recommend keeping the product in its original packaging, always in a dry place, protected from direct contact with the floor, walls and humidities.

- Boards should always be stored under cover and on a flat surface.
- The optimum storage conditions are 65% humidity, avoiding drier or more humid environments.
- Under no circumstances may there be direct contact with water.
- Runners should be always aligned with the vertical.
- We do not recommend stacking more than 4 high.
- If the packaging is damaged during handling, the product must be repackaged for proper storage.
- Non-compliance with the specified stacking conditions as well as any changes in humidity or temperature in storage or processing areas can cause irreversible deformation and curvatures.

RECOMMENDATIONS AND CERTIFICATIONS



INNOVATIVE PRODUCTS

Innovative products developed by Finsa. Internationally recognized.



ENVIRONMENTAL CERTIFICATIONS



FIRE-RETARDANT BOARD

European Standard EN 13501-1
"Classification based on fire performance of construction products and building elements."



WATER RESISTANT

European Standard EN 622-5 Table 4.
Requirements for boards for general use in humid environments.



CE MARKING

CE Mark in accordance with European Standard EN 13986 certified by AENOR

Forest Management Certificate PEFC/1435-00006. PEFC is an independent, non governmental and non-profit entity whose aim is to promote sustainable forest management worldwide.

For more info: www.pefc.org



FSC certification guarantees the consumer that forest products come from forests managed in a rational manner, according to the Principles and Criteria of the Forest Stewardship Council.

For more info: www.fsc-spain.org





FINSA
solutions in wood

ESPAÑA

Barcelona
Tel.: 93 703 81 00
Fax: 93 703 81 19
catalunya@finsa.es
Valencia
Tel.: 96 120 20 13
Fax: 96 121 10 51
levante@finsa.es

La Rioja
Tel.: 941 20 35 00
Fax: 941 20 39 32
norte@finsa.es
Santiago de Compostela
Tel.: 981 99 31 01
Fax: 981 05 07 05
noroeste@finsa.es

Madrid
Tel.: 91 212 61 00
Fax: 91 533 83 43
centro@finsa.es
Sevilla
Tel.: 95 502 31 00
Fax: 95 444 02 37
sur@finsa.es

EXPORT

Santiago de Compostela
Tel.: +34 981 99 31 23
Fax: +34 981 05 07 06
e-mail: export@finsa.es

FRANCE

FINSA FRANCE
Morcenx
Tel.: +33 558825900
Fax: +33 558079136
finsafrance@finsa.com

IRELAND

FINSA FOREST PRODUCTS
Scariff
Tel.: +353 61 64 04 09
Fax: +353 61 92 11 29
commercial-ffp@finsa.es

ITALIA

FINSA ITALIA
Monticello d'Alba
Tel.: +39 0173 64 607
Fax: +39 0173 64 698
italia@finsa.es

HOLLAND

FINSA BV
Vlissingen
Tel.: +31 118 47 12 22
Fax: +31 118 47 24 00
holland@finsa.es

POLSKA

FINSA POLSKA
Gdynia
Tel.: +48 58 627 32 00
Fax: +48 58 627 32 09
polska@finsa.es

PORTUGAL

LUSO FINSA
Perafita-Matosinhos
Tel.: +351 22 55 74 080
Fax: +351 22 55 74 089
lusos@finsa.es

U.A.E.

FINSA MIDDLE EAST
Dubai
Tel.: +971 4 8809511
Fax: +9714 8809556
e-mail: finsame@finsa.es

UNITED KINGDOM

FINSA UK
Merseyside
Tel.: +44 (0)151 6512400
Fax: +44 (0)151 6512405
e-mail: uk@finsa.com