Light solutions
in wood

FINANCIERA MADERERA FINSA

FINSA

solutions in wood

Light solutions
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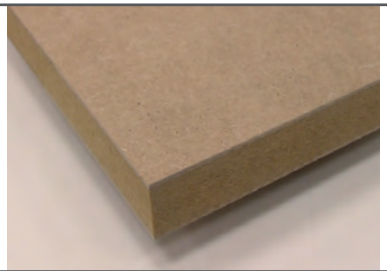
solutions in wood

Properties guide*

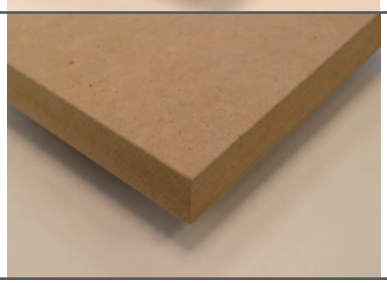


It is a light board made up of MDF faces with an Iberpan 300 (very low density fibre board) core

LIGHTNESS
RESISTANCE
Especially concerning surface resistance to screw pull-off
VOLUME
30 to 70 mm.

Innovative board made up of thin MDF surfaces and core (Fibranor)

LIGHTNESS
RESISTANCE
Especially concerning bending resistance
VOLUME
28 to 250 mm.



Low density board (approximately 400 kg/ m^3)

LIGHTNESS
RESISTANCE
VOLUME
30 to 60 mm

*Indicative data. Please refer to technical information.

Finsa
Environment

“Wood is a sustainable, 100% recyclable material which helps tackle climate change.”

The use of wood-based products makes a positive contribution towards forestry and towards sustainable forest management.

Each m^3 of wood used instead of another material prevents the emission of up to 2 tons of CO_2 into the atmosphere.

PEFC
PEFC/14-35-00006
"www.pefc.org"

FINSA
solutions in wood

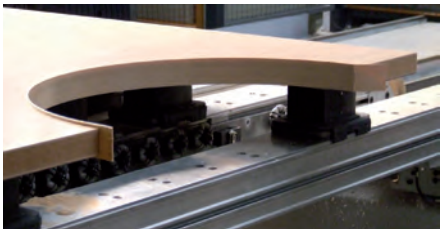
“Sustainability: over 90% of the wood used in our processes comes from fast-growing tree species”

In order to offer the highest level of quality we need first-class raw materials. Additionally, it is our responsibility to ensure development based on forestry resource renewal, as well as protection of the environment.

Thus, we actively promote the use of wood from PEFC and FSC forests – the two certifications that ensure sustainable forest management.

Additionally, over 60% of the wood used for manufacturing our products comes from recycled raw materials: sawmill residue, sawdust, wood chips, residues from forest clearing, etc.

Light solutions
Properties



Convenience

• Can be subjected to any machining, cutting and edging process, with the same tools normally used for other wood based boards.

• Compatible with any standard metal fittings.

Lightness

• Clear improvement in terms of handling, work safety and logistics (up to 40 % more cargo forwarded in each shipment).

• Significant decrease in weight: over 40% compared to standard MDF.

Environment

• Environmentally friendly: 100% recyclable, CO_2-capturing material which helps tackle climate change.

• Innovative product: efficiency in terms of resource usage.

Design

To respond to the latest market trends: chunky pieces and a wide range of finishings.

Applications

The wide range of decorative options, added to the resistance offered by these products, makes them the ideal solution in a wide variety of applications in the furniture, doors or construction sector.

They can all be coated with high-pressure laminates, natural veneers, finish foil or PVC foil.

IDEAL SOLUTIONS FOR..

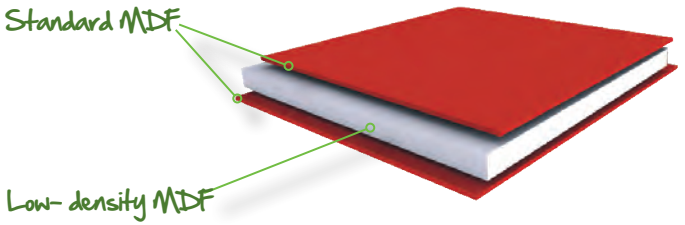
- Home furniture.
- Kitchen or bathroom furniture.
- Office furniture: office desktops, office divisions,...
- Stands, displays,...
- Interior doors.
- Wardrobe doors.
- Table tops.
- Shelves.
- Partitions screens, columns, ceilings,...
- Interior furniture for caravans.
- Interior furniture for boats.
- ...

Finlight

The volume that becomes lighter

A board for greater thickness and low weight. Accepts machining, cutting and edging processes using standard machines.

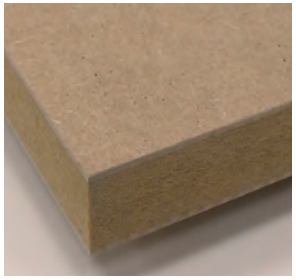
Finlight is a light board made up of MDF faces with an Iberpan 300 (very low density fibre board) core. A new product developed for applications requiring the combination of greater thickness and lower weight. This product offers a significant decrease in weight in large pieces, while at the same time guarantees exceptional resistance and stability properties.



Other possibilities:
- Finlight C - a light board made up of chipboard surfaces and a cardboard honeycomb filling. Upon request.
- Finlight P - a light board made up of thin MDF surfaces with an extruded polystyrene filling. Upon request.

PRODUCT RANGE

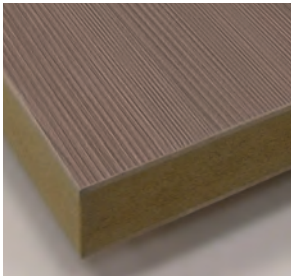
uncoated



SIZE (mm)	Standard: 2440x2050 Possible: 2850x2050
THICKNESS (mm)	30, 35, 40, 50 and 60* Possible: up to 70
FACES	MDF 3mm / *6 mm

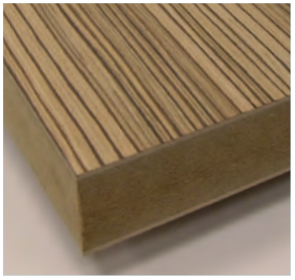
Other sizes upon request

melamine



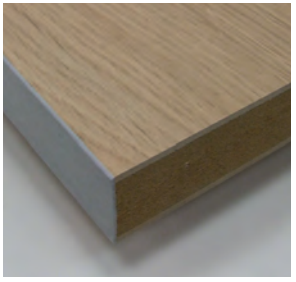
Designs from Duo Range
www.gamaduo.com

veneered



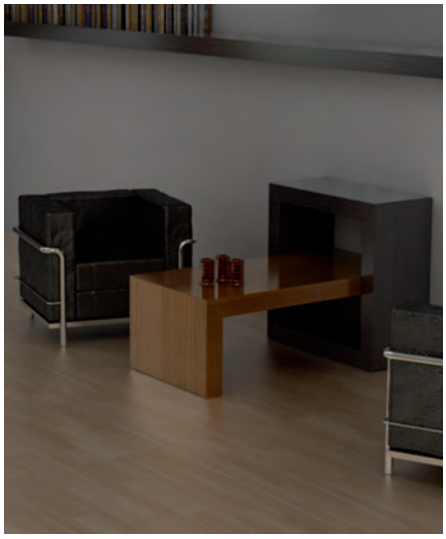
Upon request
www.finsa.com

machined



Upon request
www.finsa.com

“Compared to other alternatives in the market, our light boards can be edged using common machines. This can mean greater convenience and savings.”



International Recognition Award

construction products association

Association of Construction Products (UK)

Innovative product within the category of efficient resource usage

Finlight
Technical Information

FINLIGHT

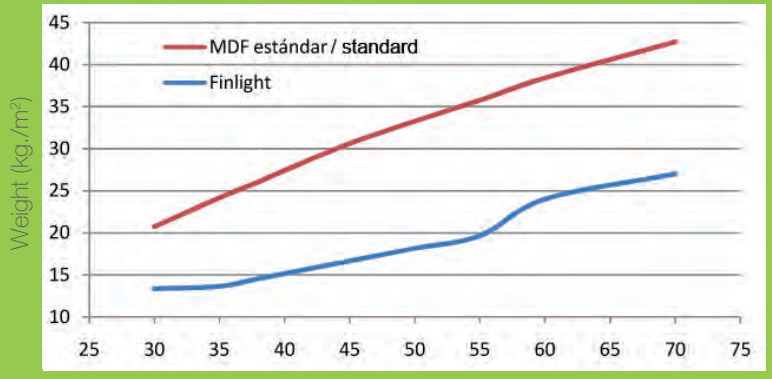
TECHNICAL FEATURES:

TESTS	PROPERTIES	THICKNESSES (mm)				UNITS
		30/45	30/45	45/60	45/60	
	Thickness MDF faces	3	6	3	6	mm
EN 323	Density (indicative data)	410/380	470/420	380/360	420/390	kg/m³
EN 319	Internal bond	0.06				N/mm²
EN 310	Bending strengh	5				N/mm²
EN 310	Modulus of elasticity	1300		1200		N/mm²
EN 311	Surface soundness	>1.2				N/mm²
EN 317	Swelling in water 24 hours	10	9	9	7	%
EN 318	Dimensional stability length/width	0,30				%
EN 318	Dimensional stability thickness	0,30				%
EN 322	Humidity	7±3				%
EN 382-1	Surface absorption (both faces)	>150				mm
ISO 3340	Silica contents	≤ 0,05				% weight
EN 120	Formaldehyde contents Class E1	class E-1 <8.0				mg/100g
EN 320	Resistance to screw pulling. Screw holding Surface	600				N
TOLERANCE IN NOMINAL DIMENSIONS						
EN 324-1	Thickness	± 0.30				mm
EN 324-1	Length and width	± 3				mm/m
EN 324-2	Squareness	± 3				mm/m
EN 13986	Thermal conductivity	0,07				W/(mK)
	Sound reduction index	24,2				dB
EN 13986	Sound absorption 250-500 Hz	0,10				
	Sound absorption 1000-2000 Hz	0,20				

DATA TABLE (TESTING METHOD ACCORDING TO STANDARD DIN 68874-1)				
Thickness	Composition	Deformation / Deflection		
		5 min.	14 days	28 days
E50 mm	3+44+3 mm	1.3 mm	2.1 mm	2.7 mm

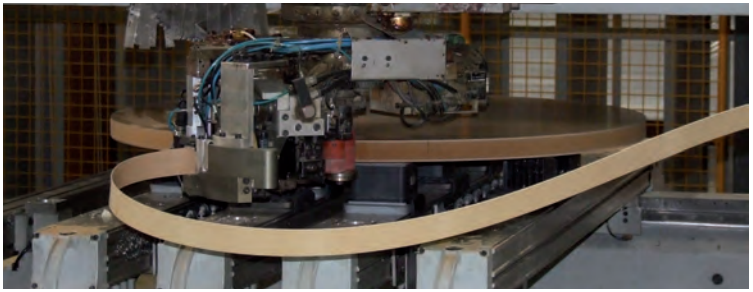
Notes: Distance between stands: 975 mm. Applied load: 150 kg /m². Maximum accepted deflection according to the standard 9.75 mm

Comparative graph: indicative weight per m²



The technical data presented herein is merely indicative due to continuous product development and to changes in the standards governing such products. Thus, some parameters may undergo modifications.

Recommendations



TRANSPORT, STORAGE AND HANDLING RECOMMENDATIONS.

Finlight should be transported and stored with care, in compact stacks on a suitable flat base. Always check that all runners are in the same position and aligned in order to avoid deformations. We recommend special care against any blunt lateral strokes or letting the board fall on the ground, as this can damage its interior.
We further recommend Finlight to be kept in its original package, always stored in a dry place, protected from direct contact with the ground, walls and moisture.

RECOMMENDATIONS FOR CUTTING, MACHINING, DRILLING, GLUING AND EDGING.

The cutting, machining and edging processes are similar in terms of working conditions (speed, pressure, temperture) to those normally used for other types of wood based panels. Edges should be protected against blows, shocks, wear, tear, and moisture. We recommend the use of harder edges (such as PVC or ABS), wood veneer, metal or plastic profiles. Once it has been processed, it is vital that the final product is properly insulated and sealed on all four edges to prevent swelling.

MELAMINE COATING:

Finlight is not an appropriate baseboard to be directly melamined. Please request information on our range with melamine coating.

NATURAL VENEER COATING:

Recommended working conditions:

- Pressure: 3 or 4 kg/cm^2.
- Temperature: 120/140°C
- Pressing time: according to the type of glue.

COATING WITH HIGH-PRESSURE LAMINATE:

Recommended working conditions:

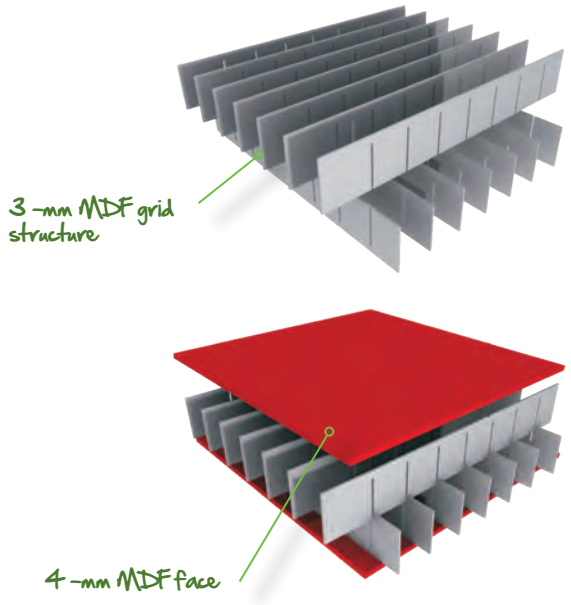
- Pressure: 3 or 4 kg/cm^2.
- Temperature: 120/140°C

Finsa GreenPanel

Minimum weight. Maximum resistance

For the most demanding projects: the perfect combination of lightness and resistance.

Finsa GreenPanel® is an innovative board made up of thin MDF faces (Fibranor). Its interior is made of a 3-mm MDF grid, thus making it resistant and stable and especially recommended for applications requiring a balance between low weight, high stability and resistance. It allows cutting and edging using common machines.



PRODUCT RANGE

without coating

Sizes

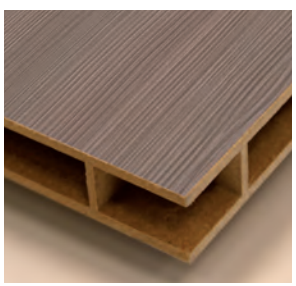
mm/mm	28	38	50	60	80
2440 x 1220	●	●	●	●	●
2850 x 2100	●	●	●	●	●

Flame-retardant quality: 3050 x 1220 x 38 mm

Faces: MDF 4 mm

Other sizes upon request

melamine

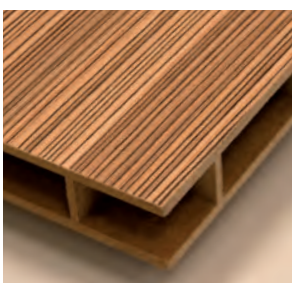


Size

2850 x 2050 mm

Designs: Upon request

veneered

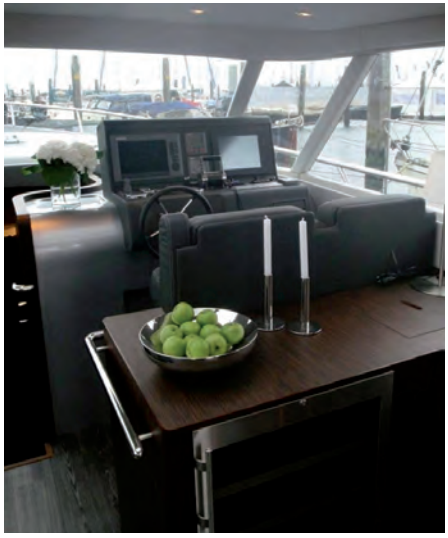


Size

2440 x 1220 mm

Natural and reconstituted veneers within the FInsanatur range

“A building board with extremely low weight and extraordinary resistance. Besides, no requirements for special machinery.”



Especially useful for very demanding projects: caravan and boat interiors and technical flooring.

Finsa GreenPanel
Technical Information

FINSA GREENPANEL

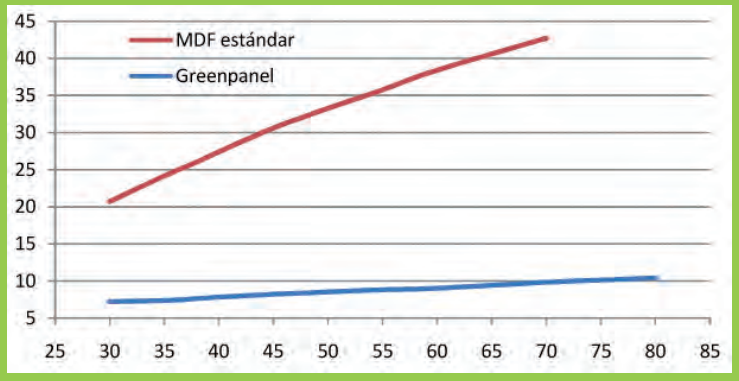
TECHNICAL FEATURES:

TESTS	PROPERTIES	THICKNESS (mm) 28	38	50	60	80	100	UNITS
EN 323	Density (indicative data)	320	260	220	200	175	160	kg/m³
EN 319	Internal bond	0.15						N/mm²
EN 310	Bending strengh	10	10	7	7	5	5	N/mm²
EN 310	Modulus of elasticity	1000	1000	900	900	700	700	N/mm²
EN 311	Surface tension	0.8						N/mm²
EN 322	Moisture	>150						%
EN 382-1	Surface absorption (both faces)	7+/-3						mm
ISO 3340	Silica contents	≤ 0.05						% weight
EN 120	Formaldehyde contents Class E1	≤ 8						mg/100g
TOLERANCE IN NOMINAL DIMENSIONS								
EN 324-1	Thickness	+/-0.5						mm
EN 324-1	Length and width	+/- 2 mm/m (max +/- 5 mm)						mm/m
EN 324-2	Squareness	+/-2						mm/m
EN 324-2	Edge straightness	+/-1,5						mm/m

DATA TABLE (TESTING MÉTHOD ACCORDING TO STANDARD DIN 68874-1)				
Thickness	Composition	Deformation / Deflection		
		5 min.	14 days	28 days
50 mm	4+42+4 mm	1.1 mm	1.7 mm	1.8 mm

Notes: Distance between stands: 975 mm. Applied load: 150 Kg /m². Maximum deflection accepted by the standard 9.75 mm

Comparative graph: indicative weight per m²



The technical data presented herein is merely indicative due to continuous product development and to changes in the standards governing such products. Thus, some parameters may undergo modifications.

Recommendations

MELAMINE COATING:

Finsa GreenPanel is not a suitable baseboard to be directly melamined.
Please request information on our range with melamine coating.

NATURAL VENEER COATING:

Recommended working conditions:

- Pressure: 0.5 kg / cm^2.
- Temperature: 90/100°C
- Pressing time: according to the type of glue.

HIGH-PRESSURE LAMINATE COATING:

Recommended working conditions:

- Pressure: 0.5 kg / cm^2.
- Temperature: 90/100°C

EDGING RECOMMENDATIONS

We recommend the use of harder edges (such as 2-mm-thick PVC or ABS edges).
Support edging is not necessary up to 60 mm thickness.

Iberpan 400

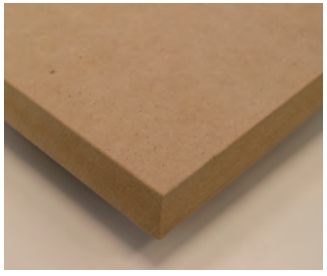
The light MDF solution

MDF fibreboard especially developed for all applications requiring low weight boards.

This board has been developed to provide solutions to the excessive weight of thick pieces and to complications arising when processing boards combining several materials (for instance easier edging and cutting). It is available in thicknesses ranging from 30 mm to 60 mm, and it covers a wide range of needs in the furniture and door industry.

PRODUCT RANGE

without coating



SIZES

mm/mm	35	40	45	50	60
2440 x 2050	●	●	●	●	●

Other sizes available upon request

Iberpan 400 is the appropriate product for exhibition booths and for light doors.

Technical Information

IBERPAN 400

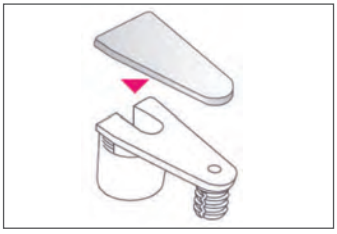
TECHNICAL FEATURES :

TESTS	PROPERTIES	THICKNESS (mm) >30-45	>40/45	>45/60	>60/70	UNITS
EN 323	Density (indicative data)	400/420				kg/m³
EN 319	Internal bond	0.06				N/mm²
EN 310	Bending strengh	12	10	10	10	N/mm²
EN 310	Modulus of elasticity	1300	1300	1200	1200	N/mm²
EN 311	Surface tension					N/mm²
EN 317	Swelling in water 24 hours	12	12	10	10	%
EN 318	Dimensional stability length/width	0,25	0,25	0,25	0,25	%
EN 318	Dimensional stability thickness	3	3	3	3	%
EN 322	Moisture	7±3				%
EN 382-1	Surface absorption (both faces)	>150				mm
ISO 3340	Silica contents	≤ 0.05				% weight
EN 120	Formaldehyde contents	Class E-1 <8.0				mg/100g
EN 320	Resistance to screw pulling. Screw holding Surface	600				N
TOLERANCE IN NOMINAL DIMENSIONS						
EN 324-1	Thickness	± 0.30				mm
EN 324-1	Length and width	± 3				mm/m
EN 324-2	Squareness	± 3				mm/m
EN 324-2	Edge straightness	+/-1.5 mm				

EN 13986	Thermal conductivity	0.07	W/(mK)
	Sound reduction index	24.2	dB
EN 13986	Sound absorption 250-500 Hz	0.10	
	Sound absorption 1000-2000 Hz	0.20	

Light solutions
Metal fittings

CONNECTING FITTINGS



VB36HT
Manufacturer: Hettich
Thicknesses: 30-60 mm
combined with Hettinject and
DU 261 screws

TAB 18
Manufacturer: Häfele
Thicknesses: 29-50 mm
with frame

TAB 20HC
Manufacturer: Häfele
Thicknesses: 32-60 mm
without frame

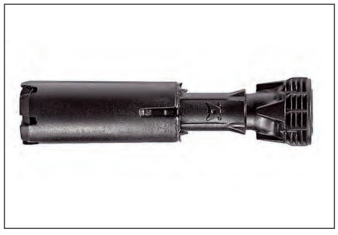
RAFIX 20HC
Manufacturer: Häfele
Thicknesses: 32-50 mm
without frame

INSERTION RUNNERS

Nº 4 HT
Manufacturer: Hettich
Drill 8 mm. Compatible with
Euro screws

HETTINJECT DOWEL
Manufacturer: Hettich
Thicknesses: 19-50 mm.
Mechanical fastening with
chemical component

SELF-PERFORATING
RUNNERS
Manufacturer: Any.
Improves edge fastening
(undemanding fastening)



AEROFIX 100
Manufacturer: Häfele
Thickness 32-50 mm.
Adhesive runner

RECOMMENDATIONS AND TYPE OF FITTINGS:

Our solutions are compatible with any type of standard fittings in the market. However, you may find a wide range of special fittings, which are also appropriate to be used with our boards. For more information: Häfele (www.hafele.com) and Hettich (www.hettich.com).

The basic principles using fittings are as follows: distribute the stress along the board and make the fittings work by compression, rather than by pulling. In furniture pieces that may require edge fixation, we recommend strengthening the board by placing wooden frames which offer greater resistance to the use of iron fittings and/or screws.

MINIFIX 15

Manufacturer: Häfele
Thicknesses: 29-50 mm with frame

SHELF SUPPORT

HETTINJECT TITAN

Manufacturer: Hettich
Along with a plastic stand.
Thicknesses: 30 mm

SCREWS / PINS

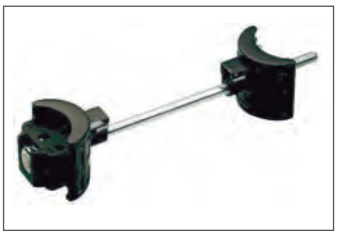
DU 261

Manufacturer: Hettich
Combined with Hettinject runner and fitting VB 36 HT

VARIANTA

Manufacturer: Häfele
Drill 3 / 5 mm

CONNECTORS TABLETOPS



AVB HT

Manufacturer: Hettich
Tabletop thickness 50/60 mm

MAXIFIX 35 HC

Manufacturer: Häfele
Tabletop thickness 50/60 mm

SCREWS / PINS

CONNECTING PIN M20

Manufacturer: Häfele
Drill 5 mm

CONNECTING PIN S100

Manufacturer: Häfele
Drill 5 mm

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FINSA
solutions in wood

ESPAÑA

Alicante
Tel.: +34 965 12 44 99
Fax: +34 965 12 44 09
sureste@finsa.es

Canarias
Tel.: +34 981 99 31 00
Fax: +34 981 05 07 05
canarias@finsa.es

Santiago de Compostela
Tel.: +34 981 99 31 01
Fax: +34 981 05 07 05
noroeste@finsa.es

Barcelona
Tel.: +34 93 703 81 00
Fax: +34 93 703 81 19
catalunya@finsa.es

La Rioja
Tel.: +34 941 20 35 00
Fax: +34 941 20 39 32
norte@finsa.es

Sevilla
Tel.: +34 95 502 31 00
Fax: +34 95 444 02 37
sur@finsa.es

Bizkaia
Tel.: +34 94 625 47 30
Fax: +34 94 625 54 65
pvasco@finsa.es

Madrid
Tel.: +34 91 212 61 00
Fax: +34 91 533 83 43
centro@finsa.es

Valencia
Tel.: +34 96 120 20 13
Fax: +34 96 121 10 51
levante@finsa.es

FRANCE DISTRIBUTION

FINSA FRANCE MORCENX
Morcenx
Tel: +33 / 5 58 82 59 00
Fax: +33 / 5 58 07 91 36
finsafrance@finsa.com

FRANCE INDUSTRIE

FINSA FRANCE TOURS
Saint Avertin
Tel.: + 33 / 2 47 28 06 07
Fax: + 33 / 2 47 27 86 72
france@finsa.es

IRELAND

FINSA FOREST PRODUCTS
Scariff
Tel.: + 353 / (0) 61 64 04 09
Fax: + 353 / (0) 61 92 11 29
commercial-ffp@finsa.es

ITALIA

FINSA ITALIA
Monticello d'Alba
Tel.: + 39 / 0173 64607
Fax: + 39 / 0173 64698
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 (0) 58 6273200
Fax: + 48 (0) 58 6273209
polska@finsa.es

PORTUGAL

LUSO FINSA
Perafita-Matosinhos
Tel.: + 351 / 22 5574080
Fax: + 351 / 22 5574089
luso@finsa.es

U.A.E.

FINSA MIDDLE EAST
Dubai
Tel.: +971 4 886 5110
Fax: +971 4 886 5112
finsame@finsa.es

UNITED KINGDOM

FINSA UK
Merseyside
Tel.: + 44 / 151 651 2400
Fax: + 44 / 151 651 2405
uk@finsa.es

EXPORT

Santiago de Compostela
Tel.: + 34 / 981 05 00 33
Fax: + 34 / 981 05 07 06
export@finsa.es