



**THE WOOD**  
COMPACT



**FINSA**

*solutions in wood*



# FINSA

*solutions in wood*

Photo: Actiu

# COMPACMEL PLUS

## THE WOOD COMPACT

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## LEED CREDITS: SUSTAINABLE CONSTRUCTION

Our products offer LEED credits in the following 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; i.e., it warrants that the products purchased are made with materials from sustainably managed forests.

This warranty through PEFC and FSC<sup>®</sup> certificates, includes the production and marketing of wood-based products.



The mark of  
responsible forestry

# ENVIRONMENT AND SUSTAINABILITY

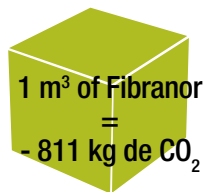
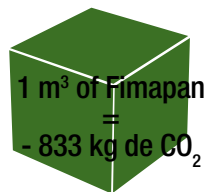


## TRANSPARENCY: ECOLOGICAL PRODUCT FOOTPRINT

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, 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.



### DID YOU KNOW...?

The production process of CompacMel Plus saves up to 80% of the emission of greenhouse gases compared to the traditional phenolic compact process.

# FEATURES AND APPLICATIONS

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A SOLUTION IN WOOD  
SPECIALLY DESIGNED FOR USE  
IN HIGHLY HUMID INDOOR  
ENVIRONMENTS OR  
APPLICATIONS REQUIRING  
HIGH RESISTANCE.



## FEATURES

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The COMPAC PLUS / COMPACMEL PLUS products come from our strong commitment to technological development and innovation, diversifying our range of products to provide solutions for the most demanding projects.

COMPAC PLUS is a high-density wood fibre board (>1000 kg/m<sup>3</sup>), with excellent physical and mechanical properties.

With a wide range of modern trendy designs, COMPACMEL PLUS also features a high-strength melamine coating.



## APPLICATIONS

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- Sports facilities: lockers, locker rooms and benches, shower screens \* ...
- Commercial facilities: fitting rooms, store counters...
- Cultural center's facilities: wardrobe, luggage storage...
- Air and land transport facilities.
- School and office furniture: bookcases, tables and desks..
- Kitchen furniture: countertops\*
- Hospital equipment: tables, beds, cabinet doors...
- Hotels and hospitality equipment...
- Facilities for common areas of buildings
- Storage: cupboards, shelves..
- Suspended dividers in public toilet facilities
- Panels
- Interior doors

\* for this application it is recommended to seal the edges.

# MAIN ADVANTAGES



ENVIRONMENTALLY FRIENDLY: SUSTAINABLE, 100% RECYCLABLE MATERIAL.

E1: LOW FORMALDEHYDE CONTENT



EXCELLENT MECHANICAL PROPERTIES (BENDING STRENGTH, INTERNAL BOND, RESISTANCE TO IMPACT,...) AND DIMENSIONAL STABILITY



HIGH RESISTANCE TO MOISTURE (EXCEEDS THE V313 AND V100 TEST REQUIREMENTS)



COMPETITIVE COST

LOW TOOL WEAR



WIDE RANGE OF DECORS

VERSATILE DESIGN



EASY MACHINE WORK (CUTTING AND DRILLING) AND INSTALLATION.

STANDARD TOOLS AND HARDWARE



CERTIFIED ANTIBACTERIAL SURFACE



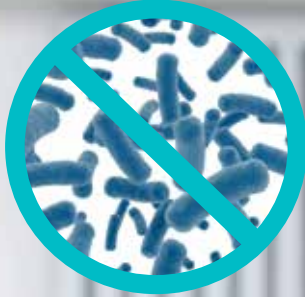
FIRE-RETARDANT QUALITY AVAILABLE







# ANTIBACTERIAL CERTIFICATION



## CERTIFICATION



The CompacMel Plus surface has been certified by an external laboratory, the IMSL (Industrial Microbiological Services) in the UK, following the procedures outlined by ISO 22196: 2011, which confirms that the performance of CompacMel Plus inhibits the growth and development of bacteria, without affecting its coating features.

Tested with the following bacteria:

- *S. aureus*, which can produce a large variety of diseases, ranging from skin and mucous infections, to life-threatening diseases such as meningitis, pneumonia, etc.
- *E. coli*, which can cause diarrhea and serious intestinal issues.

## ANALYSIS CERTIFICATE

CERTIFICATE NO. 1023308.1E-1

IMSL  
Industrial Microbiological Services (UK)  
[www.imsl-uk.com](http://www.imsl-uk.com)

Method: Calculation of antibacterial activity by using ISO 22196: 2011

RESULTS (AS CFU CM-2)

SAMPLE

		CONTACT	TIME	REDUCTION	LOG % DIFFERENCE
<b>COMPACMEL PLUS</b>	<i>E. Coli</i>	1.7E+04	≤ 1.0	≥ 4.2	> 99.99%
	<i>S. aureus</i>	2.0E+04	≤ 1.0	≥ 4.3	> 99.99%

The above data show the difference between the initial and final bacterial populations after contact with sample surfaces, referenced for 24 hours at 35 °C, at a relative humidity of 95%.

# TECHNICAL CERTIFICATIONS:



## CERTIFICATION

AIDIMA, the Technological Furniture, Wood, Packaging and Similar Products Institute, is a non-profit organization established in 1984, equipped with one of the best Technological Institutes in Europe. A complete characterization of CompacMel Plus has been conducted at their laboratories, assessing both the support as well as the coating properties.

"The tested product CompacMel Plus meets the requirements of the following standards, which apply to kitchen and bathroom furniture":

- UNE 56 842
- UNE 56 843
- UNE 56 867
- UNE 56 868
- ISO 19712-1



## THERMAL CONDUCTIVITY

Thanks to the good thermal conductivity values achieved, CompacMel Plus is a perfect product for wall cladding, as it substantially improves thermal insulation, and thus reduces energy consumption.

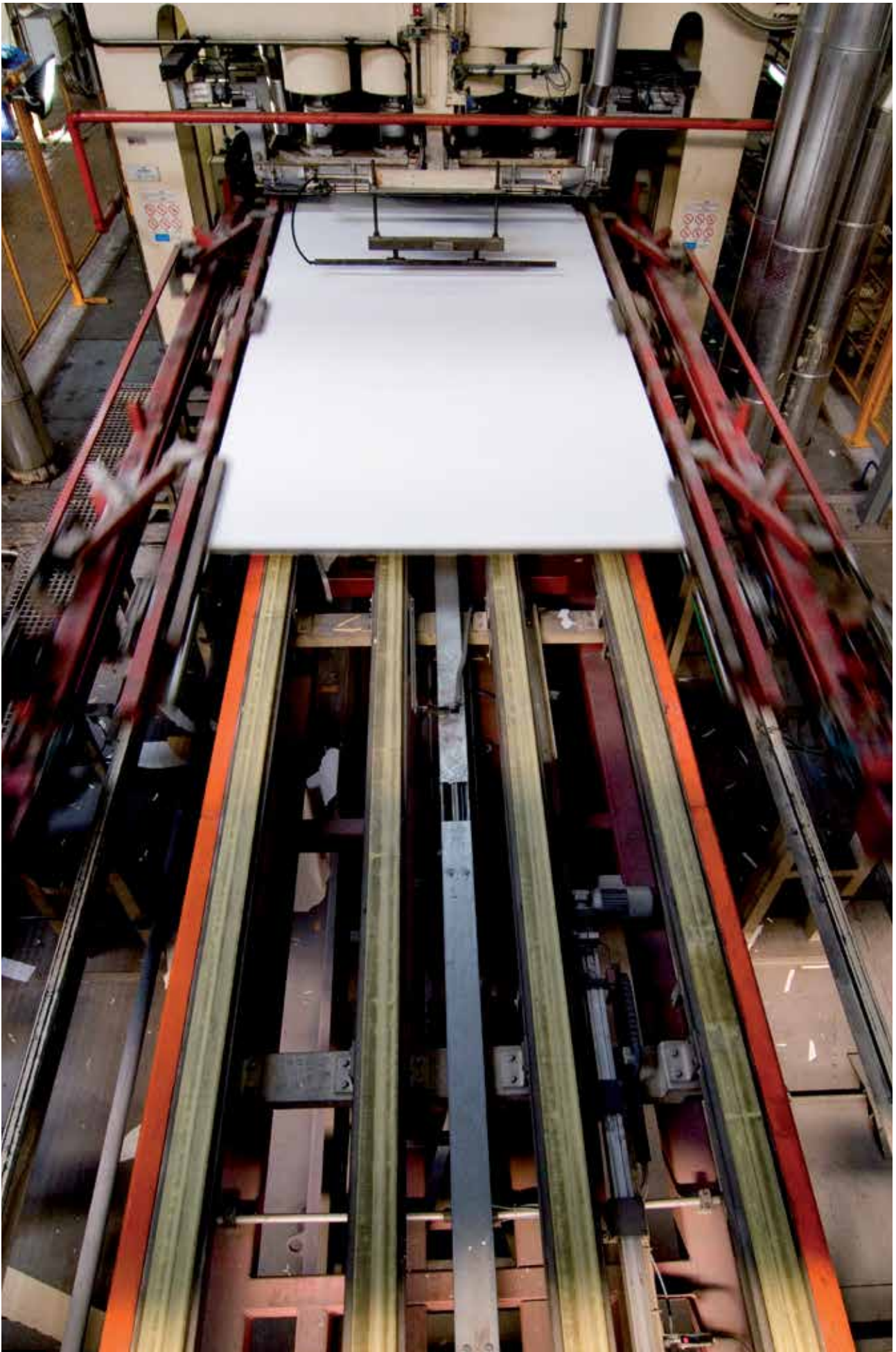


## ASSESSMENT OF THE BASEBOARD'S RESISTANCE

FEATURE	STANDARD	UNIT	COMPACMEL PLUS
Density	EN 323	kg / m <sup>3</sup>	1050-1100
Surface pull-off	EN 311	N / mm <sup>2</sup>	> 3.5
Surface screw pull-off	EN 13446	N	> 1300
Impact resistance. Fall height	UNE 56754	mm	> 2000
Swelling in thickness after 24h immersion in water	EN 317	%	0.15
Thermal conductivity	EN 12667	W / m K	0.12

## ASSESSMENT OF THE SURFACE RESISTANCE WHITE SR 209 REFERENCE

FEATURE	STANDARD		HPL STANDARD REQUIREMENT	COMPACMEL PLUS*
Appearance	UNE 56867	Assessment	Zero defects	Zero defects
Stain resistance	EN 438-4	Group 1 agents. Assessment	≥ 5	5
		Group 2 agents. Assessment	≥ 5	5
		Group 3 agents. Assessment	≥ 4	5
Stain resistance. Kitchen furniture. Working planes	UNE 56 842	Assessment	≤ 1	0
Stain resistance. Bathroom furniture. Toilet planes	UNE 56 867	Colour. Assessment	≥ 4	5
		Gloss. Assessment	≥ 3	5
Abrasion resistance	EN 438-4	Initial point IP (cycles)	≥ 150	900
		Resistance (cycles)	≥ 350	1150
Resistance to ball drop	EN 438-4	Fall height (mm)	≥ 1800	≥ 2000
Resistance to ball drop. Kitchen furniture	UNE 56 842	Assessment	No cracks	No cracks
Resistance to ball drop. Bathroom furniture	UNE 56 867	Assessment	≤ 1	0
Resistance to ball drop. Solid surfaces.	ISO 19712-1	Assessment	No cracks	No cracks
Colour fastness to light	EN 438-4	Grayscale. Assessment	≥ 4 - 5	5
Steam resistance. Colour / gloss assessment	UNE 56 867	Colour. Assessment	≥ 4	5
		Gloss. Assessment	≥ 4	5
Resistance to dry heat at 180 °C	UNE 56 867	Colour. Assessment	≥ 4	5
		Gloss. Assessment	≥ 4	5
Resistance to moist heat at 100 °C	EN 438-4	Other types of finishing. Assessment	≥ 4	5
Crack resistance	EN 438-4	Assessment	≥ 4	5
Cigarette burn resistance	EN 438-4	Assessment	≥ 3	5
Scratch resistance	EN 438-4	Smooth finishing	≥ 2	5
Thermal shock cycles	UNE 48025	Assessment	Zero defects	Zero defects
Resistance to attack by hydrochloric acid	Internal method	Assessment	---	5



# TECHNICAL TESTS

## FEATURED DATA

In tests conducted by AIDIMA, the product's resistance to changing temperature and humidity conditions was assessed.

The following tests were conducted, whose results are shown below:



**THERMAL STABILITY**  
STANDARD EN 263

LONGITUDINAL INCREASE - 0,1 mm/m  
 THICKNESS INCREASE - 0,80 %

**DIMENSIONAL STABILITY AT HIGH TEMPERATURE**  
STANDARD EN 438

LONGITUDINAL INCREASE 0,37%  
 TRANSVERSAL INCREASE 0,38%

**RESISTANCE TO HOT WATER**  
STANDARD EN 263

100 CYCLES

LONGITUDINAL INCREASE 0,27 %  
 THICKNESS INCREASE 6,3 %

**THERMAL SHOCK CYCLES**  
STANDARD UNE 48025

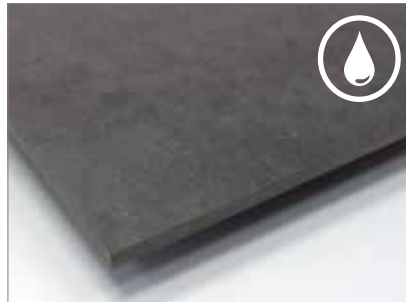
40 CYCLES

ZERO DEFECTS

**DIMENSIONAL STABILITY TO HUMIDITY CHANGES**  
STANDARD EN 318

LONGITUDINAL INCREASE 0,22%  
 TRANSVERSAL INCREASE 0,33%

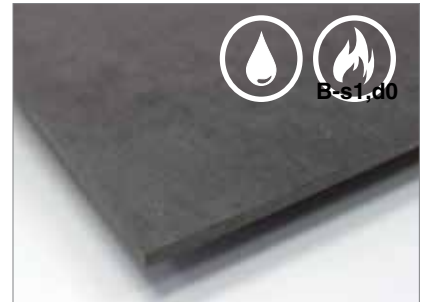
# RANGE QUALITIES, FORMAT AND DESIGNS



**COMPAC PLUS**

Size (mm)	2850 x 2100			
Thickness (mm)	8	10	12	13
Units / pack	36	28	24	22

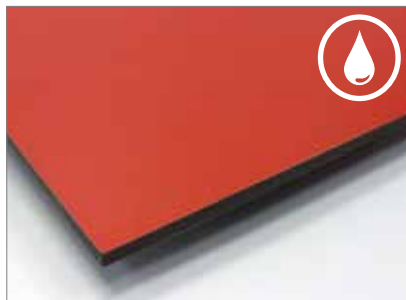
Minimum: 1 pack  
Production possibilities:  
thickness 8-13 mm



**COMPAC PLUS  
FIRE-RETARDANT**

Size (mm)	2850 x 2100	
Thickness (mm)	8	
Units / pack	36	

Minimum: 1 pack  
Production possibilities:  
thickness 8-13 mm



**COMPACMEL PLUS**

Melamine faced

**STANDARD RANGE**

Size (mm)	2850 x 2100	
Thickness (mm)	13	

Minimum: 1 board  
Designs:  
CompacMel Plus Range (Soft III Texture)

**FLEXIBLE RANGE**

Format (mm)	2850 x 2100			
Thickness (mm)	8	10	12	13
Units / pack	36	28	24	22

Min.: 1 pack CompacMel Plus range (soft III)  
2 packs Gama Duo (soft III)



**COMPACMEL PLUS  
FIRE-RETARDANT**

Melamine faced

**STANDARD RANGE**

Size (mm)	2850 x 2100	
Thickness (mm)	8	

Minimum: 10 boards  
Designs:  
CompacMel Plus Range (Soft III Texture)

**FLEXIBLE RANGE**

Format (mm)	2850 x 2100	
Thickness (mm)	8	
Units / pack	36	

Minimum: 2 packs  
Gama Duo (Soft III Texture)

Veneer supply option:  
**COMPAC PLUS NATUR**  
Consult our sales network.

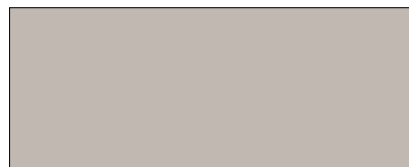


# COMPACMEL PLUS RANGE

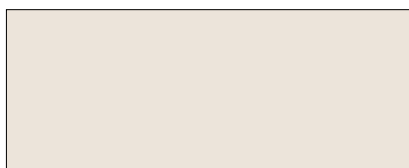
TEXTURE: SOFT III



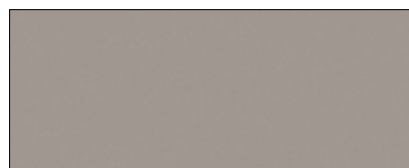
78E\_WHITE SR209



15R\_GRIS COCO



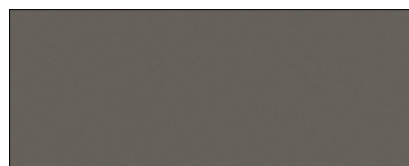
183\_CREMA 005



11R\_VISON CHIC



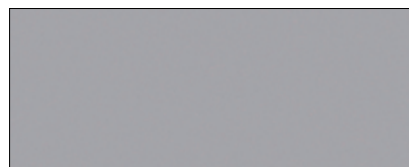
01Q\_GRIS TORTORA



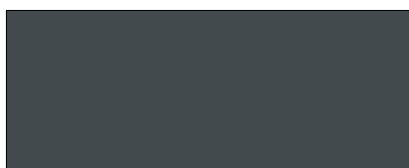
53S\_MOKA CHIC



U12\_NATURAL GREY



72E\_ALUMINIO AROSA



71A\_GRIS GU



231\_NEGRO



172\_ROJO



139\_AZUL EO



22G\_AMARILLO SOL



54C\_VERDE NATURAL

# APPLICATIONS PROJECTS AND IDEAS

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Company offices automotive sector / VALENCIA - Designer: AC architecture - Installer: Armarios Levante, S.L.

# APPLICATIONS PROJECTS AND IDEAS

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 **estudibonjoch** s.l.  
bonavista 6, int. pral. 4a 08012 Barcelona



DISSENY HUB BARCELONA BUILDING. PHOTOGRAPHY LOURDES JANSANA

## RECOMMEND BY...

**IGNASI BONJOCH**  
INTERIOR DESIGNER

[WWW.BONJOCH.COM](http://WWW.BONJOCH.COM)

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Ignasi Bonjoch began his professional career in 1990 by founding the Bonjoch Studio. Throughout these 25 years, he has faced numerous projects in the field of interior design and ephemeral space, from the earliest stages of strategy and positioning, to final resolution.

Wood and its qualities have always had a prominent role in his portfolio, and that is why Finsa's decorative solutions have been integrated into several of his studio's flagship projects.

**DISSENY MUSEUM**  
**BARCELONA**

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Ignasi Bonjoch designs and plans the 2nd floor of the Disseny Hub Barcelona: the Design Museum that brings together the Design Museums in Catalonia:

"In the Museum we find many large, really heavy historical pieces, which we have arranged upon CompacMel Plus as an exhibition platform. This choice allowed us to move and place these pieces without fear of scratches, thanks to the highly resistant surface. The perfect edge cutting also allowed us to leave it visible, thus saving time and processes, without sacrificing quality and design."

DOWNLOAD THE VIDEO  
FINSA / THE EXPERT'S OPINION  
WITH IGNASI BONJOCH





DISSENY MUSEUM BARCELONA. EXTRAORDINARY EXHIBITION! COLLECTIONS OF DECORATIVE ARTS AND AUTHOR'S ARTS (3RD-20TH CENTURIES).  
PHOTOGRAPHER: LAFOTOGRAFICA

## OFFICE FACILITIES

COMPANY OFFICES AUTOMOTIVE SECTOR  
VALENCIA (SPAIN)

DESIGNER: AC ARQUITECTURE  
INSTALLER: ARMARIOS LEVANTE, S.L.  
APPLICATION: BACKLIT PANEL







## EDUCATIONAL FACILITIES

CHILDREN EDUCATION CENTRE  
CALLOSA, ALICANTE (SPAIN)

DESIGNER: DESIGNER: ROCAMORA ARCHITECTURE AND ALEXANDRE  
MARCOS

PHOTOGRAPHY: DAVID FRUTOS

APPLICATION: FURNITURE









BILBAO ARENA SPORTS PALACE  
BILBAO (SPAIN)

DESIGNER: BILBAO EKINTZA, E.P.E.L.  
APPLICATION: SANITARY CABINS

**WASHROOM AND TOILET  
CUBICLES / CHANGING ROOMS**



**BAI GYM FITNESS CENTRE  
BILBAO (SPAIN)**

**DESIGNER: MIABSA ARQUITECTURA INTERIOR, [WWW.MIABSA.COM](http://WWW.MIABSA.COM)  
APPLICATIONS: LOCKERS**

**FINSA 21 SPACE  
MADRID (SPAIN)**

**DESIGNER: LILIAN FLORES  
APPLICATION: TOILET**



## SPORTS FACILITIES

REAL AERoclub OF SANTIAGO  
AMES (SPAIN)

DESIGNER: CARBAJO Y BARRIOS ARQUITECTOS / JUAN PINTO  
APPLICATIONS: LOCKERS / INSTALLATIONS  
PRODUCT: COMPAC PLUS NATUR





## COMMERCIAL AND SPORTS FACILITIES



IMD ERMUA  
GUIPUZCOA (SPAIN)

DESIGNER: EBANISTERÍA LANDA, S.L. AND COMERCIAL  
VILARRASA  
APPLICATION: COUNTER

RESTAURANT  
MADRID (SPAIN)

DESIGNER: ANTONIO VELA COSSIO  
APPLICATION: FURNITURE



HOTEL AND HOSPITALITY  
EQUIPMENT



## HOSPITAL EQUIPMENT AND FACILITIES

HOSPITAL DE VALDECILLA  
SANTANDER (SPAIN)

DEVELOPER: UTE VALDECILLA (FERROVIAL AGROMAN, S.A., AND SIECSA CONSTRUCCIÓN Y SERVICIOS)  
[WWW.FERROVIAL.COM](http://WWW.FERROVIAL.COM) AND [WWW.SIECSA.COM](http://WWW.SIECSA.COM)

INSTALLER: JAVAL, S.L.

APPLICATIONS: CUPBOARDS, WINDOW FRAMES, COUNTERTOPS, AND PEDIATRICS BABY CHANGING FACILITIES







# EPHEMERAL ART

EMBRUNS

LIVING ARCHITECTURES FESTIVAL, LA GRANDE MOTTE, FRANCE

DESIGNERS: AMANDINE ROMANET, ARNAUD MALTHIEU &  
MATTHIEU THUILLIER

PAUL KOZLOWSKI  
©PHOTOARCHITECTURE.COM/FAV





# COMPACMEL PLUS DATA SHEETS

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Compac plus

Compacmel plus

Fire-retardant Compac Plus

Fire-retardant Compacmel Plus

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These are just indicative technical data. Due to continuous product development, as well as that of the standards by which products are governed, some parameters may change.

For more information please visit the website: [www.finsa.com](http://www.finsa.com)



# TECHNICAL RECOMMENDATIONS

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## COMPACMEL PLUS

Proper board storage and packaging prevents undesirable deformations, and helps preserve flatness.

### STORAGE AND ACCLIMATIZATION RECOMMENDATIONS

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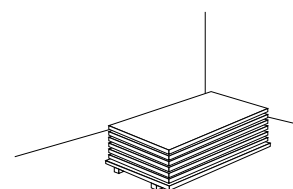
#### STORAGE.

It should be stored in closed, ventilated, dry storage rooms, protected from sun, rain, frost and chemical splashes, in compact stacks.

Pallets shall be placed upon flat, levelled surfaces, and the boards shall remain packaged in similar conditions to those of the original packaging, in order to properly retain

their properties. When packages are stacked, it is recommended that the runners be aligned vertically to prevent warping.

Prevent boards from being subject to different humidity and temperature conditions on each of their sides.



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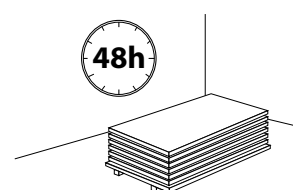
#### ACCLIMATIZATION.

Wood and all wooden boards, given their hygroscopic properties, capture and release moisture to surrounding environment, depending on the temperature and humidity of such environment, causing dimensional variations.

Preconditioning of boards is recommended. Before processing, it is recommended to let them get adapted to the environment for at

least 48 hours before use.

In case of on-site use (coating, room dividers, etc.), the boards must be stabilized at the installation site in order to achieve balance and minimize dimensional variations once installed.



## HANDLING AND MACHINE WORK RECOMMENDATIONS

### HANDLING.

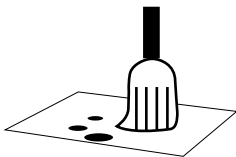
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The product must be handled with appropriate care, like with any other melamine-coated board, avoiding intense friction between surfaces that may damage the decorative side.

### CLEANING.

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The product can be cleaned with a damp cloth, and a mild cleaning agent in small doses. Abrasive elements and excessively acidic or alkaline solutions should be avoided. Prolonged exposure to wet surfaces and / or direct contact with water should be avoided.



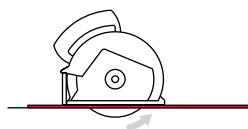
### CUTTING AND MACHINING.

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Common tools can be used for cutting and machine working the wooden boards, just as for any other wood-based panels, although specific parameter settings may be required (cutting speed, feed rate), for a good finishing. To increase tools service life, the use of diamond cutting tools is recommended.

Product features allow it to be machine worked, and to use visible edges.

It is recommended to consult your usual tools provider for further information and advice.



# INSTALLATION RECOMMENDATIONS 1/2

## GENERAL INFORMATION

Proper board storage and packaging prevents undesirable deformations, and helps preserve flatness.

The material should be dry, and NEVER exposed to or in contact with stagnant water, not even during the assembly process.

- Follow all technical specifications regarding dimensional changes when designing the facility, considering expansion joints in the case of coatings, or suitable clearance in the case of rebates. Likewise, when fasteners are used, which should allow adequate dimensional variations during the facility's service life,

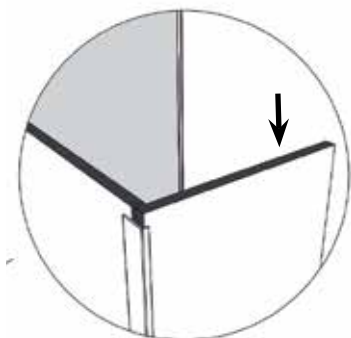
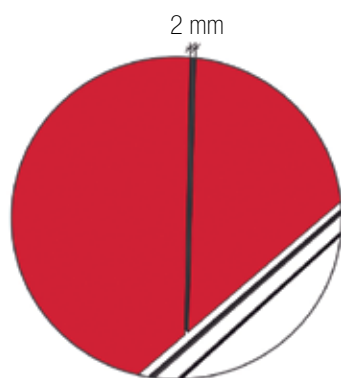
- To ensure appropriate expansion, there should be at least one joint between panels for 2 mm / m linear board.
- There should be no more than a single fixed point in the entire assembly unit, the remaining fastening points should enable movement.

- In the event of contact with liquid water (not stagnant), edges must be SEALED.

- When using adhesives, they must be flexible to enable panel movement.

- In the case of using countersunk screws, they should be placed with support rosettes. If it is a ball screw, it will cover the sliding hole.

- For decorative purposes, wax, oil or vaseline can be applied to the visible edge to enhance its colour.





## SPECIFIC RECOMMENDATIONS

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Compacmel Plus boards are suitable for installation as paneling in areas requiring intensive cleaning, for their mechanical and surface properties; and are suitable for the manufacture of sanitary cabins and bathrooms dividers, thanks to their moisture resistance and easy-to-clean surfaces.

### WALL CLADDING

Compacmel Plus is suitable for panel coating ventilated walls, in which the board is attached to a substructure, which, in turn, is attached to the brick, concrete or wooden wall, ensuring appropriate ventilation and air circulation.

it should always be mounted on a substructure, never directly onto the wall, even if it is completely flat, and the wall should be checked to confirm that it is completely dry before panel installation.

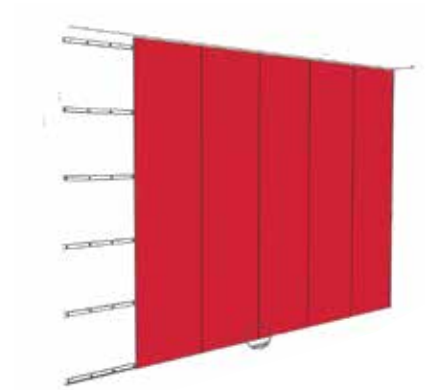
Ventilation of the rear chamber between the board and the wall ensures the appropriate temperature and humidity balance on both sides of the board, preventing deformation by

differential variations. It is advisable to ensure that the air circulation gap is at least 20 mm thick, and that ventilation is provided from the bottom to the top.

The substructure can be built with board strips, wood, steel or aluminum, and can be made with horizontal and / or vertical profiles (battens).

Compacmel Plus can be attached to the substructure by:

- visible fasteners, with screws or rivets from the visible side to the substructure,



- concealed fastening, with hanging aluminum clamps or adhesive ribbons on the back side of the board to be fastened or attached to the substructure, following the above stated recommendations (general notes).

In case of hanging horizontal mounting rails, it should be done in such a way that it ensures vertical ventilation.

## FOR COATINGS WITH VISIBLE MECHANICAL FASTENING

When using screws or rivets as fasteners, the following is required:

- Arrange the fasteners starting from the center of the board.

- Only one fixed point per assembly unit, all others must be sliding points.

Fixed point means that in which the diameter of the bore matches the diameter of the fastening element, and will be located as near as possible to the center of the board.

A sliding point is one whose hole is larger than the fastener, at least 2 mm more per meter of board, taken from the fixed point. The diameter of the fastener will be large enough to cover the hole, and will be attached in such a way as to allow the movement of the board, without tightening the screw too much.

### Maximum fastener distances

Maximum distance to the board edge - 10 mm.

Maximum distance between fasteners:

600 mm for 8 mm board thickness, and 800 mm for 13 mm board thickness.

# INSTALLATION RECOMMENDATIONS 2/2

## SPECIFIC RECOMMENDATIONS

Compacmel Plus boards are suitable for installation as paneling in areas requiring intensive cleaning, for their mechanical and surface properties; and are suitable for the manufacture of sanitary cabins and bathrooms dividers, thanks to their moisture resistance and easy-to-clean surfaces.

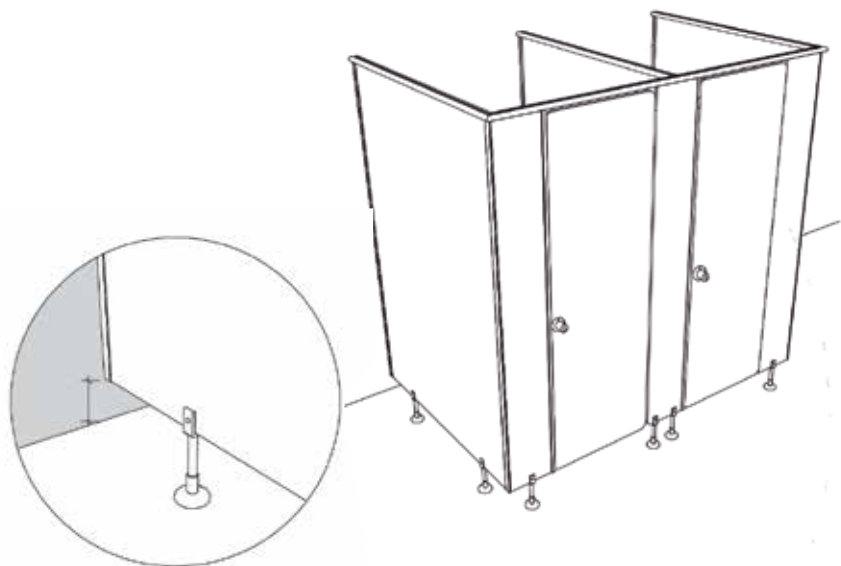
### SANITARY CABINS

In general, the board should not be permanently exposed to standing water, either during use or during construction and assembly. To prevent this from happening, it should have support legs to prevent direct contact with the ground, and with height adjustment to compensate for floor surface unevenness.

It should facilitate unhindered air circulation

around the panels to ensure good performance.

Edges and all exposed areas should be sealed.



"The recommendations contained herein are only for general information purposes. It is recommended to always turn to professional experienced installers that know the design and regulatory requirements applicable in each case, for the correct installation of Compacmel Plus."

# EDGE SEALING RECOMMENDATIONS



## EDGE SEALING RECOMMENDATIONS FOR COMPACMEL PLUS WITH RENNER SEALANT FI---M192

### DESCRIPTION

Sealant FI ---M192----- is a two-component transparent sealer formulated with polymers endowed with highly insulating, moisture-resistant, climate change properties. This polyurethane sealant creates a protective high-strength film, with strong adhesion to the substrate, and high physical and chemical resistance.

### MAINTENANCE

For maintenance and depending on the type of exposure the board shall be subject to, it is recommended that a new coat of FI --- M192 be applied annually from the 2nd year, while sanding the old paint film beforehand using 220 -240 grit sanding, in order to ensure that the properties remain unchanged throughout the board's service life.

### APPLICATIONS

1. Beforehand, prepare the substrate with 180 grit sanding, then clean all the sanding residues. Before applying the product, the surface must be free from dust or grease.

2. Preparation of the mixture depends on the application method:

<u>APPLICATION METHOD</u>	<u>MIXING RATIO</u>
GUN / ROLLER	FI --- M192/----- (sealant) <b>1 part</b> FC---M192/----- (catalyst) <b>5 parts</b>

3. Once the mixture is ready for application, the following recommendations shall be taken into account:

No. of coatings	Max. 3
Recommended amount per coating	Max.: 50g/m <sup>2</sup>
Interval between coatings	Max.: 1 hour
Lifetime of the mixture	4 hours

For more information: [www.renneritalia.com](http://www.renneritalia.com)

### TECHNICAL TESTS

Tests performed by AIDIMA mentioned in Standard UNE EN 263:2002 have enabled a better assessment of board edge behaviour to changing temperature and humidity conditions, resulting from the application of edge sealant. Finsa recommends the use of edge sealants in humid environments (e.g. sanitary cabins).

The information in this section is for general recommendations based on experiments. It is up to the end users to verify if this product suits their needs, regarding the type of instruments to be used, and the environmental application conditions.

# HARDWARE RECOMMENDATIONS 1/2

## HARDWARE

There is a wide range of hardware available in the market. Compacmel Plus is generally compatible with standard fittings available for wood panels or phenolic compact.

Following are some recommendations on hardware, fittings, and other complementary items, sold by some of the reference multinational companies in the sector,

structured by type of application.

It is recommended to follow the instructions and advice set forth by hardware manufacturers, and to consult them for further information and advice.

For more information, please visit the following reference websites:

Grass: [www.grass.eu](http://www.grass.eu)

Häfele: [www.hafele.de](http://www.hafele.de)

Hettich: [www.hettich.com](http://www.hettich.com)

## HINGES



### TIOMOS M9

Manufacturer: GRASS  
Door thickness from 12 mm  
Opening angle 110°



### TIOMOS M0

Manufacturer: GRASS  
Door thickness from 6 to 10 mm.  
Opening angle 125°.



### SPECIAL STAINLESS STEEL HINGES

Manufacturer: HÄFELE.  
For 13mm body thickness, and thin doors 10-13mm thick.  
Opening angle 240°.



### PIANO STAINLESS STEEL HINGES

Manufacturer: HÄFELE.



### SENSYS

Manufacturer: HETTICH  
Hinge with 8mm cup. With brake.



## PANELS



### KEKU UNION HARDWARE SYSTEM

Manufacturer: HÄFELE.  
Suspended mounting hardware.

### PANEL MOUNTING SYSTEM

Manufacturer: HÄFELE.  
The panel mounting system is used for wall coating. The basic structure is built with suspension profiles.



### HORIZONTAL AND VERTICAL SUSPENSION PROFILES

Manufacturer: HÄFELE.



### EILOX SUSPENSION PROFILES

Manufacturer: HÄFELE.  
Same profile for wall and construction piece.

## FURNITURE LOCKING SYSTEMS



### DIALOCK

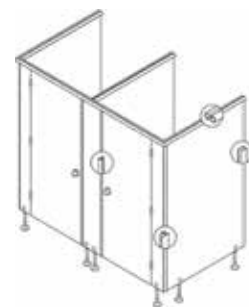
Manufacturer: HÄFELE.  
Door thickness from 13 to 19 mm.  
Electronic locking system (access control).



### SYMO

Manufacturer: HÄFELE.  
Closing system with interchangeable core cylinder.

## SANITARY CABINS



### SYSTEM

Manufacturer: HÄFELE.  
- Top profile  
- Wall terminating profile  
- Edge terminating profile  
- Doorstop profile  
- Forked leg  
- Rotating knob with latch  
- Aluminum screwing hinge  
Only applicable to 13mm board thickness.

# HARDWARE

## RECOMMENDATIONS

### 2/2

#### DRAWER SLIDES



##### TABLE V6

Manufacturer: HETTICH  
Total extraction sliding and concealed under the drawer bottom. Mounting by sliding.

#### DOUBLE-WALL DRAWERS



##### INNOTECH / INNOTECH ATIRA

Manufacturer: HETTICH  
Double-wall drawers.  
Program based on platform concept.



##### ARCITECH

Manufacturer: HETTICH  
Double-wall drawers for heavy fronts. Program based on platform concept. Full-extension slides.

#### SLIDING DOOR SYSTEMS



##### TOPLINE M

Manufacturer: HETTICH  
For top-hung sliding door. Position of overlapping door. Max. weight: 35kg.



##### TOPLINE L

Manufacturer: HETTICH  
For top-hung sliding door. Position of overlapping door. Max. weight: 50kg.



##### TOPLINE XL

Manufacturer: HETTICH  
For top-hung sliding door. Position of overlapping door. Max. weight: 80kg.



##### INLINE XL

Manufacturer: HETTICH  
For top-hung sliding door. Position of flush-mounted door. Max. weight: 60kg.



##### SLIDELINE M

Manufacturer: HETTICH  
For bottom-rolling sliding door. Position of overlapping door. Max. weight: 30kg.

# CERTIFICATIONS

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## STANDARDS AND CERTIFICATIONS



### ANTIBACTERIAL MARKING

Antibacterial surface according to ISO Standard 22196: 2011 certifying that the product offers benefits that inhibit the growth and development of bacteria.



### FIRE-RETARDANT BOARD

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



### MOISTURE RESISTANT BOARD

European Standard EN 622-5.  
Requirements for general-purpose boards in humid environments.

CE

## ENVIRONMENTAL CERTIFICATIONS



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



FSC® certification guarantees the consumer that forest products come from rationally-managed forests, according to the Principles and Criteria of the Forest Stewardship Council.

For more info: [www.fsc-spain.org](http://www.fsc-spain.org)



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](http://www.pefc.org)

# TECHNICAL DATA SHEETS

## COMPAC PLUS

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THE COMPLETE  
TECHNICAL DATA SHEET



TEST	PROPERTY	THICKNESS (mm)	UNITS
		8 -13	
EN 323	Density <small>(indicative information)</small>	>1000	kg/m <sup>3</sup>
EN 319	Internal bond	1.8	N/mm <sup>2</sup>
EN 310	Bending strength	50	N/mm <sup>2</sup>
EN 310	Modulus of elasticity	5000	N/mm <sup>2</sup>
EN 317	Thickness swelling in 24h	7	%
EN 318	Dimensional stability. Length / Width	0.4	%
EN 318	Dimensional stability. Thickness	6	%
EN 311	Surface soudness	1.7	N/mm <sup>2</sup>
EN 382-1	Surface absorption (both sides)	>150	mm
EN 322	Moisture content	7±3	%
ISO 3340	Silica content	<0.05	% by weight
EN 120	Formaldehyde content	≤8 (E1 Class)	mg/100 g
EN 13329	Edge swelling	15	%
EN 13986:2004	Reaction to fire (*)	D-s2, d2 (*)	Euroclass
EN 321/ EN 317	Accelerated aging test (opt. 1) Swelling after cyclic test (V313)	12	%
EN 321 / EN 319	Accelerated aging test (opt.1) Internal bond after cyclic test (V313)	0.40	N/mm <sup>2</sup>
EN 1087-1 EN 319	Accelerated aging test (opt.2) Internal traction after cooking test (V100)	0.20	N/mm <sup>2</sup>
TOLERANCE IN NOMINAL DIMENSIONS			
EN 324-1	Thickness	± 0.20	mm
EN 324-1	Length and width	+/- 2 mm/m max 5 mm	mm
EN 324-2	Squareness	± 2	mm/m
EN 324-2	Edge straightness	± 1.5	mm/m

(\*) For confined air gap or outdoor air gap below or equal to 22mm behind the COMPAC PLUS ≥9 mm. E classification for any other use / thickness condition. According to decision 2007/348/EC.

These physical and mechanical values meet/improve the values set forth under European Standard EN 622-5:2009, Table 4. Requirements for general-purpose boards in humid environments (Type MDF.H). COMPAC PLUS meets the Class E1 requirements (analyzed according to Standard EN 120) set forth under European Standard EN 622-1:2003.



## COMPACMEL PLUS

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TEST	PROPERTY	THICKNESS (mm)		UNITS
		8	13	
EN 323	Density <small>(indicative information)</small>	>1000		kg/m <sup>3</sup>
EN 319	Internal bond	1.8		N/mm <sup>2</sup>
EN 310	Bending strength	50		N/mm <sup>2</sup>
EN 310	Modulus of elasticity	5000		N/mm <sup>2</sup>
EN 317	Thickness swelling in 24h	7		%
EN 318	Dimensional stability. Length / Width	0.4		%
EN 318	Dimensional stability. Thickness	6		%
EN 311	Surface soudness	1.7		N/mm <sup>2</sup>
EN 322	Moisture content	7±3		%
ISO 3340	Silica content	<0.05		% by weight
EN 717-2	Formaldehyde emission	≤ 3,5 (E1 Class)		mg/m <sup>2</sup> h
EN 13329	Edge swelling	10		%
EN 13986:2004	Reaction to fire (*)	D-s2, d2 (*)		Euroclass
EN 321/ EN 317	Accelerated aging test (opt. 1) Swelling after cyclic test (V313)	2		%
EN 321 / EN 319	Accelerated aging test (opt.1) Internal bond after cyclic test (V313)	0.60		N/mm <sup>2</sup>
EN 1087-1 EN 319	Accelerated aging test (opt.2) Internal traction after cooking test (V100)	0.20		N/mm <sup>2</sup>
TOLERANCE IN NOMINAL DIMENSIONS				
EN 324-1	Thickness	± 0.30		mm
EN 324-1	Length and width	+/- 2 mm/m max 5 mm		mm
EN 324-2	Squareness	± 2		mm/m
EN 324-2	Edge straightness	± 1.5		mm/m
COATING				
UNE-EN 14323	Resistance to scratching	≥2		n
UNE-EN 14323	Resistance to cracking	4		degree
UNE-EN 14323	Resistance to staining (group 3)	4		degree
UNE-EN 14323	Resistance to dry heat	4		degree
UNE-EN 14323	Resistance to impact	1500		mm
VISUAL DEFECTS				
UNE-EN 14323	Edge damage	≤10 (**), ≤3(***)		mm/m
UNE-EN 14323	Visual defects. Points	≤2		mm <sup>2</sup> /m <sup>2</sup>
UNE-EN 14323	Visual defects. Scratches	≤20		mm/m <sup>2</sup>
	Abrasion resistance	Class	IP number of turns	WR number of turns
UNE-EN 14323	Abrasion resistance. Designs (inc. metallic)	1	<50	<150
UNE-EN 14323	Abrasion resistance. Solid colours	3A	>150	>350

(\*) For confined air gap or outdoor air gap below or equal to 22mm behind the COMPACMEL PLUS ≥9 mm. E classification for any other use / thickness condition. According to decision 2007/348/EC.

(\*\*) Commercial dimensions. (\*\*\*) Boards cut to size.

These physical and mechanical values meet/improve the values set forth under European Standard EN 622-5:2009, Table 4. Requirements for general-purpose boards in humid environments (Type MDF.H). COMPACMEL PLUS meets the Class E1 requirements (analyzed according to Standard EN 120) set forth under European Standard EN 622-1:2003.

# TECHNICAL DATA SHEETS

## COMPAC PLUS FIRE-RETARDANT

DOWNLOAD  
THE COMPLETE  
TECHNICAL DATA SHEET



TEST	PROPERTY	THICKNESS (mm)	UNITS
		8 -13	
EN 323	Density <small>(indicative information)</small>	1050	kg/m <sup>3</sup>
EN 319	Internal bond	1.8	N/mm <sup>2</sup>
EN 310	Bending strength	45	N/mm <sup>2</sup>
EN 310	Modulus of elasticity	4000	N/mm <sup>2</sup>
EN 317	Thickness swelling in 24h	8	%
EN 318	Dimensional stability. Length / Width	0.4	%
EN 318	Dimensional stability. Thickness	6	%
EN 311	Surface soundness	1.7	N/mm <sup>2</sup>
EN 382-1	Surface absorption (both sides)	>150	mm
EN 322	Moisture content	7±3	%
ISO 3340	Silica content	<0.05	% by weight
EN 120	Formaldehyde content	≤8 (E1 Class)	mg/100 g
EN 13329	Edge swelling	15	%
EN 13501-1	Reaction to fire	B-s1,d0	Euroclass
EN 1087-1 EN 319	Accelerated aging test (opt.2) Internal bond after cooking test (V100)	0.20	N/mm <sup>2</sup>
TOLERANCE IN NOMINAL DIMENSIONS			
EN 324-1	Thickness	± 0.20	mm
EN 324-1	Length and width	+/- 2 mm/m max 5 mm	mm
EN 324-2	Squareness	± 2	mm/m
EN 324-2	Edge straightness	± 1.5	mm/m

These physical and mechanical values meet/improve the values set forth under European Standard EN 622-5:2009, Table 6, - Requirements for general-purpose structural boards in humid environments (Type MDF.HLS). FIRE-RESISTANT COMPAC PLUS meets the Class E1 requirements (analyzed according to Standard EN 120) set forth under European Standard EN 622-1:2003, and has EC certification issued by AENOR.

## COMPACMEL PLUS FIRE-RETARDANT

DOWNLOAD  
THE COMPLETE  
TECHNICAL DATA SHEET



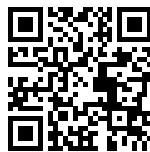
TEST	PROPERTY	THICKNESS	UNITS
		(mm)	
EN 323	Density (indicative information)	8 -13	
EN 319	Internal bond	>1050	kg/m <sup>3</sup>
EN 310	Bending strength	1.8	N/mm <sup>2</sup>
EN 310	Modulus of elasticity	45	N/mm <sup>2</sup>
EN 310	Modulus of elasticity	4000	N/mm <sup>2</sup>
EN 317	Thickness swelling in 24h	2	%
EN 318	Dimensional stability. Length / Width	0.4	%
EN 318	Dimensional stability. Thickness	6	%
EN 311	Surface soundness	1.7	N/mm <sup>2</sup>
EN 322	Moisture content	7±3	%
ISO 3340	Silica content	<0.05	% by weight
EN 717-2	Formaldehyde emission	≤ 3,5 (E1 Class)	mg/m <sup>2</sup> h
EN 13329	Edge swelling	10	%
EN 13501-1	Reaction to fire	B-s1,d0	Euroclass
EN 1087-1 EN 319	Accelerated aging test (opt.2) Internal traction after cooking test (V100)	0.20	N/mm <sup>2</sup>
TOLERANCE IN NOMINAL DIMENSIONS			
EN 324-1	Thickness	+ 0.30	mm
EN 324-1	Length and width	+/- 2 mm/m max 5 mm	mm
EN 324-2	Squareness	± 2	mm/m
EN 324-2	Edge straightness	± 1.5	mm/m
COATING			
UNE-EN 14323	Resistance to scratching	≥2	n
UNE-EN 14323	Resistance to cracking	4	degree
UNE-EN 14323	Resistance to staining (group 3)	4	degree
UNE-EN 14323	Resistance to dry heat	4	degree
UNE-EN 14323	Resistance to impact	1500	mm
VISUAL DEFECTS			
UNE-EN 14323	Edge damage	≤10 (*) ≤3(**)	mm/m
UNE-EN 14323	Visual defects. Points	≤2	mm <sup>2</sup> /m <sup>2</sup>
UNE-EN 14323	Visual defects. Scratches	≤20	mm/m <sup>2</sup>
	Abrasion resistance	Class	IP number of turns
UNE-EN 14323	Abrasion resistance. Designs (inc. metallic)	1	<50
UNE-EN 14323	Abrasion resistance. Solid colours	3A	>150
			WR number of turns
UNE-EN 14323	Abrasion resistance. Designs (inc. metallic)		<150
UNE-EN 14323	Abrasion resistance. Solid colours		>350

(\*) Commercial dimensions. (\*\*) Boards cut to size.

These physical and mechanical values meet/improve the values set forth under European Standard EN 622-5:2009, Table 6. - Requirements for general-purpose structural boards in humid environments (TYPE MDF.HLS). FIRE-RESISTANT COMPACMEL PLUS meets the Class E1 requirements (analyzed according to Standard EN 120) set forth under European Standard EN 622-1:2003, and has EC certification issued by AENOR.



# THE WOOD COMPACT



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