Finsa

Decorative Panels

Habitat 360

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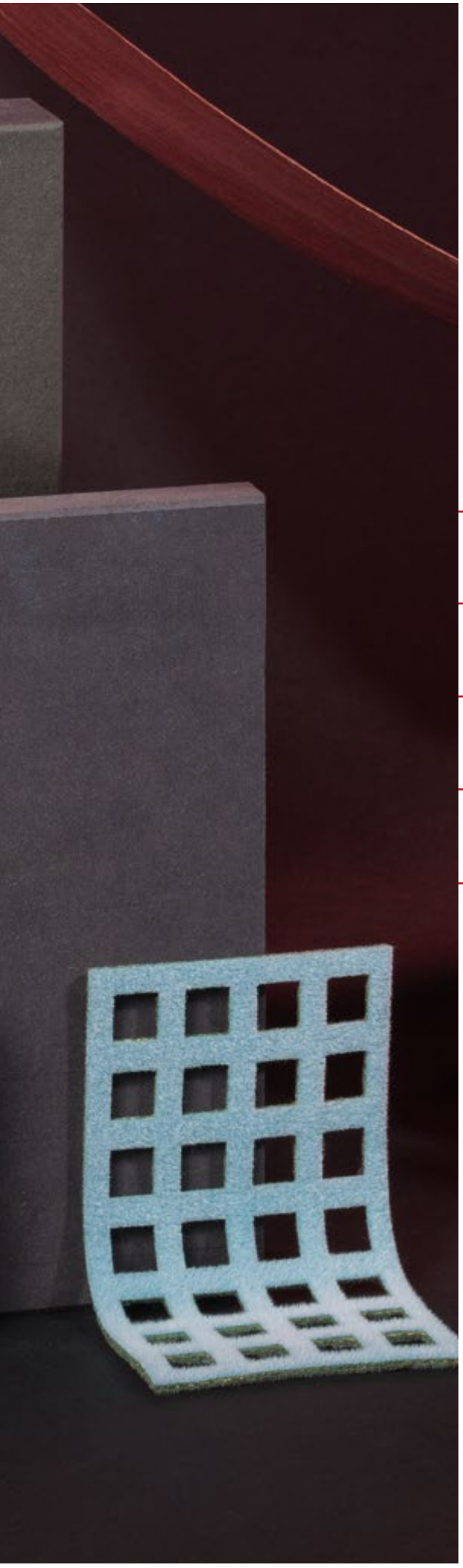


Finsa

Finsa, a company supported by over ninety years of experience, has been a pioneer in the transformation, development and manufacture of wood-derived products. In connection with the environment, Finsa continues to work to respond to the needs of the interior design and construction market, ultimately helping to create the spaces we will inhabit in the years to come.

Over the years the company has advanced, never losing its essence but adapting to changing times, with sustainability as a core value and design as its vision for the future. The transformation process to which the raw material is subjected ensures that the wood does not lose its properties; rather, efficiency is improved through an industrial process based on the circular economy system.

Design is part of **Finsa's** DNA — not only as a core element in the creation of its products, but also as one of the brand's key strengths and defining features.

Connect with **Finsa**

Finsa.com

a website with all the information

The **Finsa** website is a practical and intuitive tool that gives you quick access to detailed information about our extensive product range, including technical datasheets, catalogues, and availability guides. It also helps you locate your nearest distributors and stay up to date with the latest news from **Finsa** and the wider industry. What's more, architects, designers, and interior professionals can find inspiration on the site through a curated selection of projects featuring our materials.

Finsa Room Visualiser: compare and choose to your liking

Making interior design decisions and advising your clients on trends has never been easier: compare different designs from our range on your screen in the **Finsa** Room Visualiser.

How does our Room Visualiser work? Using the *"Comparison"* mode allows you to display two settings in the same room configuration at the same time. The detailed view allows you to see the effect of the design on the corresponding finish. Do you need to use and share those results outside our digital generator? You can create a report with all the details of the materials sampled for each setting.

Sample service: however and whenever you want

Why imagine, when you can see for yourself? We can provide samples of our decorative surfaces, allowing you to discover their wide variety. If you'd like to see them in greater detail before making your final decision, simply ask for our samples in A4 size.

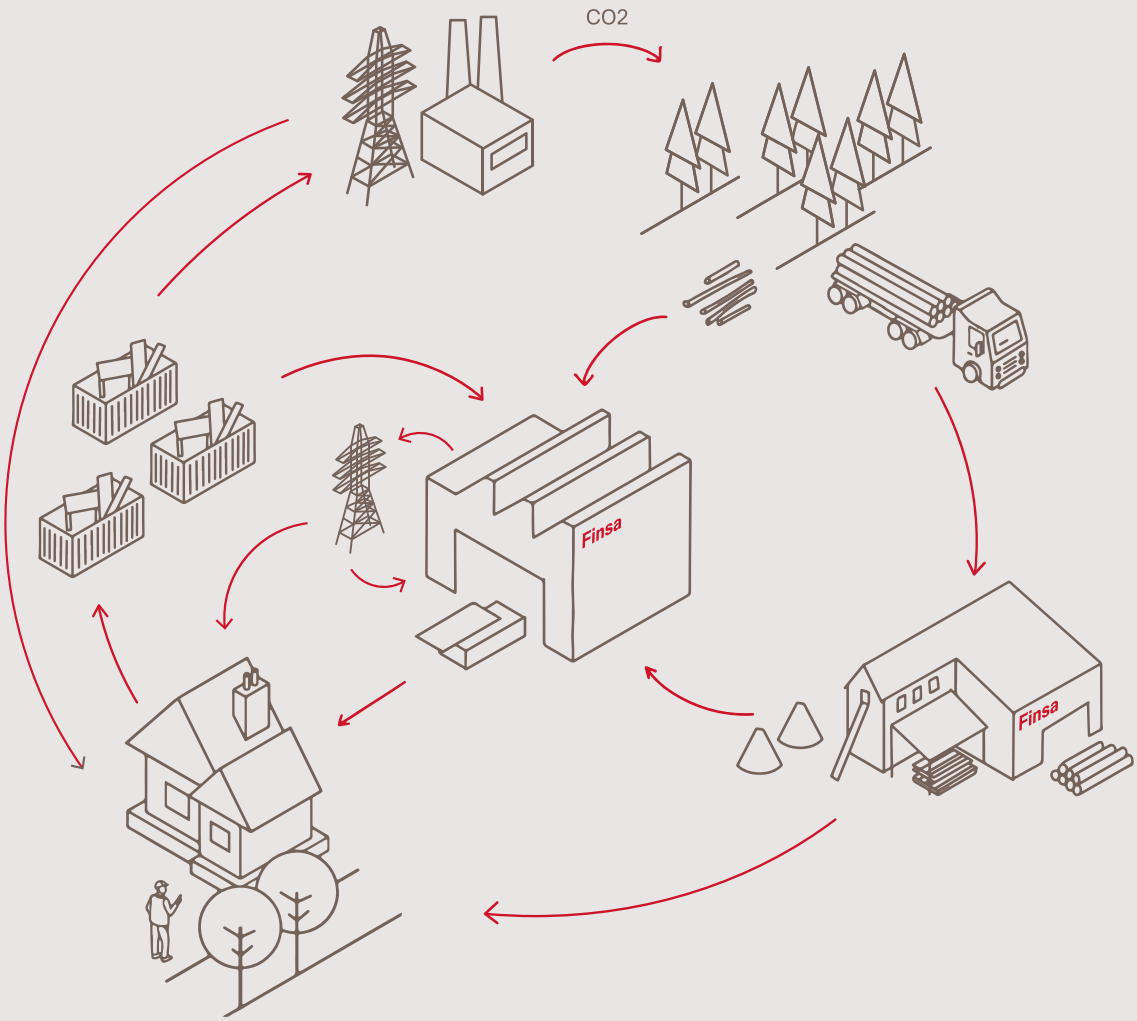
Technical Consultancy Support: we are part of your team

Finsa's Technical Consultancy team comprises professionals with extensive experience in architecture, interior design, and project development. Their job will be to accompany you during your projects to advise you on wood solutions. We can offer recommendations regarding partners who can support the delivery of the work, such as specialised distributors, industrialists and installers. In addition, we work on portfolios and other tools where we compile projects that use our materials, demonstrating the applied products and aiming to inspire you in your own work.

1.
Sustainability

Finsa's engineered wood is made using wood from rapidly renewable and recycled species. Finsa's commitment to sustainable growth extends beyond the boundaries of our factories. We consider it an obligation to respect and protect our primary raw material: wood.

For this reason, the development of the environment closest to our work centres and the people who live there is a commitment that we work towards every day.



Product-related certifications

Environmental Product Declaration
Document that communicates the environmental impact of a material during its life cycle, from the raw material extraction process, transport to the manufacturing plant and product manufacturing process.

Cradle-to-cradle.
Multi-attribute certification, directly linked to Sustainable Development Goals (SDGs), demonstrating that a product is safe and circular.

Product Transparency — Declare
Voluntary disclosure programme that makes product ingredients 99.9% explicit. The Declare seal aims to transform the building materials industry, aiming for healthier products through transparency.

HPD Health Assessments
A Health Product Declaration (HPD) is a document shared by manufacturers to disclose a product's ingredients and associated health hazards.

The Material Health Certificate
This is a materials analysis based on the Cradle to Cradle standard health assessment methodology. This certification seeks to promote healthier and safer products.

Ecolabel
Voluntary seal of environmental excellence for products or services, created by the European Union in 1992. It ensures that high ecological standards are met throughout the life cycle. Our laminate floors are currently certified.

Forestry certification, supply chain and transparency

Forestry Certifications

PEFC
PEFC chain-of-custody certification provides a verified and independent guarantee that products with the PEFC label contain certified forest material from sustainably managed forests.

FSC®
We have implemented a PEFC/FSC® chain of custody certification system that allows us to supply certified wood products to customers which are 100% recyclable and contribute greatly to the fight against climate change. This forestry certification promotes certified wood, and to this end we certify our farms and help our suppliers achieve certification.

EUTR
As a sign of transparency, we voluntarily certify compliance with EU Regulation 995/2010 regarding the legal origin of wood.

ISO 38200
This is an internationally recognised standard for the transmission of information along the supply chain of wood and wood-derived products.

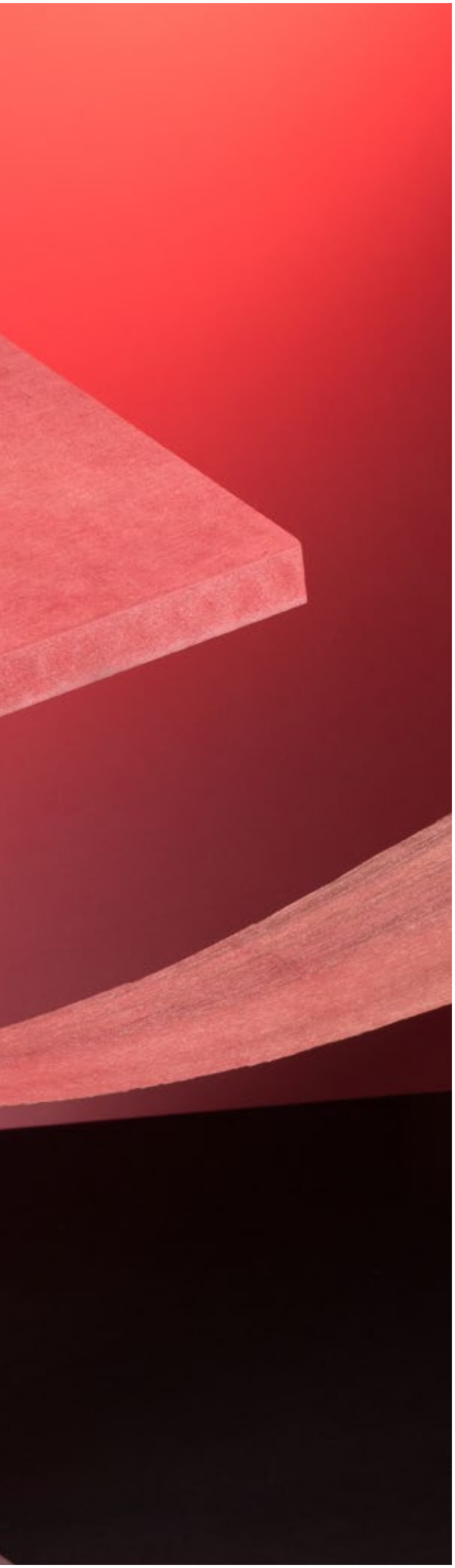
Sustainable building certifications

BREEAM, LEED, VERDE, WELL and LBC
Our wood solutions help meet the requirements of sustainable building certifications.

For detailed information on the certifications applicable to each product, please do not hesitate to contact us.

Decorative boards in various colours and formats to make your ideas come true.

Discover all the possibilities for our FibraColour®, CompacDecor® and GreenPanel® ranges!



Creativity is within you

Interior spaces are those most closely related to people; they are the places that welcome us, where life happens in all its richness and variety of purposes. That is why interior design always goes hand in hand with creativity: for its ability to nuance spaces, to make them comply with the uses and functions entrusted to them, to give them personality and identity.

Whether open-plan or complex interior spaces, bright or light-controlled, work or leisure, domestic or public, every space, every place, has an idea behind it: your idea. Creativity is the tool used on a daily basis and our Decorative Boards collection has the materials that will allow you to turn your ideas into reality.

2.

FibraColour®

Finsa's FibraColour® range consists of decorative wood fibreboards coloured throughout. FibraColour® offers new possibilities in the field of decoration and interior design, allowing a wide variety of aesthetic effects and the application of innovative finishes, such as lacquers, waxes, varnishes, pantographs, digital printing or the application of surface textures.

Characteristics

FibraColour® EZ is a product made of water-based pigments with a low concentration of formaldehyde. It therefore guarantees a perfect and safe coexistence with the environment and is an ideal alternative for use in enclosed spaces.

The product guarantees colour fastness, consistency and intensity, according to our strict quality controls. Its colouring is perfectly uniform over the whole board, with no uncoloured fibres on its surface, and is resistant to natural and artificial light, which gives the board a perfect homogeneity on both sides.

The quality of the board gives it a good mouldability, which provides a good result in shallow and deep machining.

FibraColour® EZ allows easy and fast repair of possible surface damage. A simple superficial sanding corrects scratches or knocks, returning the product to its original state, without any change in colour tone.

Being a product for creativity, at Finsa we make it easy for you by extending our FibraColour® Black EZ range of thicknesses: from thin ones for applications such as decorative facings of singular doors to thicker ones for counters or mouldings.

Advantages

- Mass-coloured
- Ease of machining (*cutting and drilling*) and installation
- EZ — Low formaldehyde emissions

Certifications

CERTIFIED cradle to cradle PRODUCTS PROGRAM

FSC www.fsc.org FSC® C041397 The mark of responsible forestry

PEFC PEFC/14-35-00006 Promoviendo la Gestión Forestal Sostenible www.pefc.org

Applications

FibraColour® EZ is an ideal product for use in different applications:

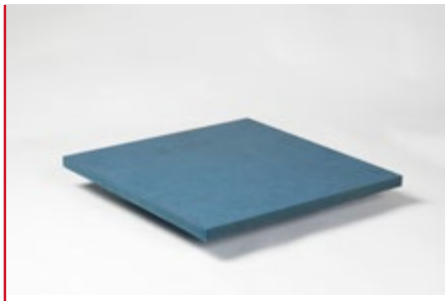
- **Interior furnishings**
  Beds, shelves, tables, displays, counters...
- **Wardrobes and dressing rooms**
  Doors, interiors, drawers...
- **Decorative coatings**
  Decorative and acoustic panels, false ceilings...
- **Partitions**
  Partition walls
- **Wrapping and packaging**

FibraColour® Black EZ
FibraColour® Black H EZ
FibraColour® Black IGN EZ

FibraColour® Black Hidrófugo EZ is a coloured, moisture-resistant fibreboard, which stands out for its dimensional stability, low swelling and absorption and excellent machining quality, making it suitable for decorative machining.

FibraColour® Black Ignífugo EZ is a full-mass coloured wood fibreboard with improved fire performance certified class B-s2,d0 according to EN 13501-1. This board is of particular interest to industrial carpentries specialising in ceiling and wall cladding, as well as acoustic solutions, among others.

FibraColour® Gris EZ



FibraColour® Azul EZ

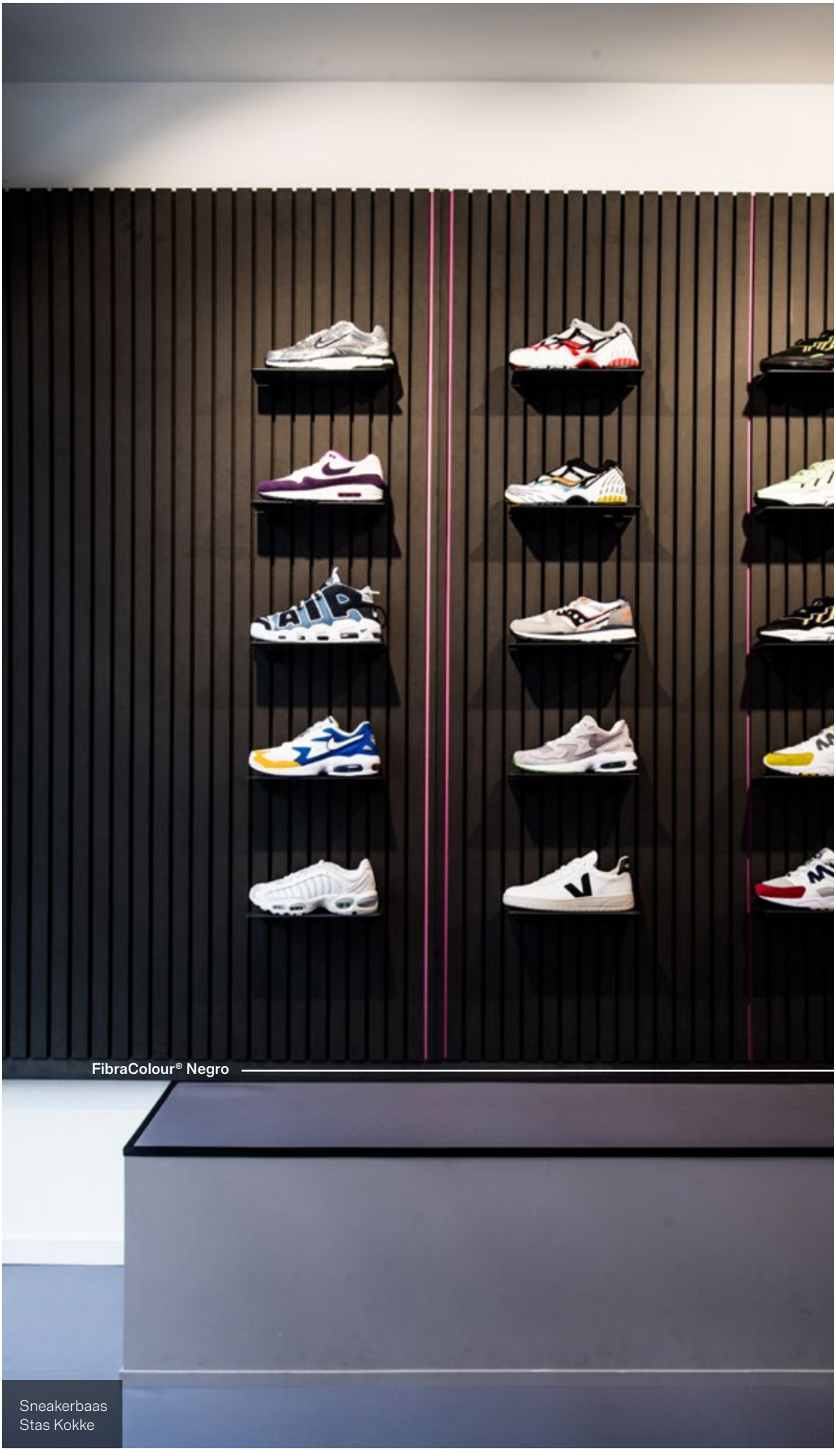
FibraColour® Amarillo EZ

FibraColour® Rojo EZ

FibraColour® Antracita EZ

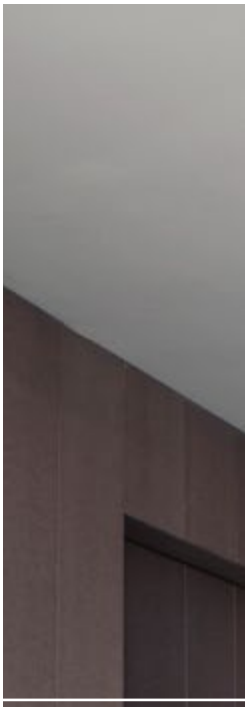
FibraColour® Azul

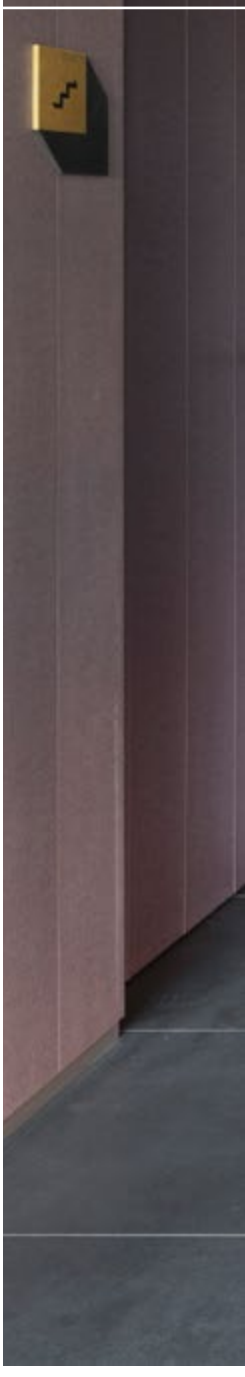
Casa Lucernario
Aritz González (MapOut)



FibraColour® Negro

Sneakerbaas
Stas Kokke





FibraColour® Gris / Negro / Amarillo / Azul

Foxos by Arial
Carbajo Barrios & Grupo Arial

3.

GreenPanel®

A range of high-strength, ultra-lightweight panels, consisting of thin faces and fibre interiors, the latter arranged in a grid pattern. Also available in FibraColour® Black EZ, which increases the decorative possibilities of the range.

Characteristics

Very low density composite board with 4 mm MDF faces, which allows for surface machining. Its interior is made of a 3 mm MDF grid, which gives it great strength and stability, especially recommended for applications that require a balance between low weight, high stability and strength. Cutting and edging is possible with the usual machinery.

Advantages

GreenPanel® is a board with an extremely low weight.

EZ

Low formaldehyde emissions.

Certifications

CERTIFIED cradle to cradle PRODUCTS PROGRAM

FSC www.fsc.org FSC® C041397 The mark of responsible forestry

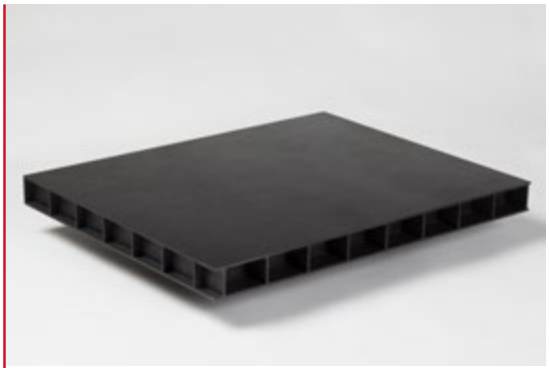
PEFC

Applications

The uncoated edge of the panel gives it a great aesthetic personality for use in interior design. Its thickness and high dimensional stability make it particularly suitable for use and application in:

- **Interior furnishings**
  Shelves, display tables...
- **Connecting and technical doors**
  Integrated elements
- **Kitchen furniture**
  Worktops
- **Partitions**
  Technical partitions, partition walls...

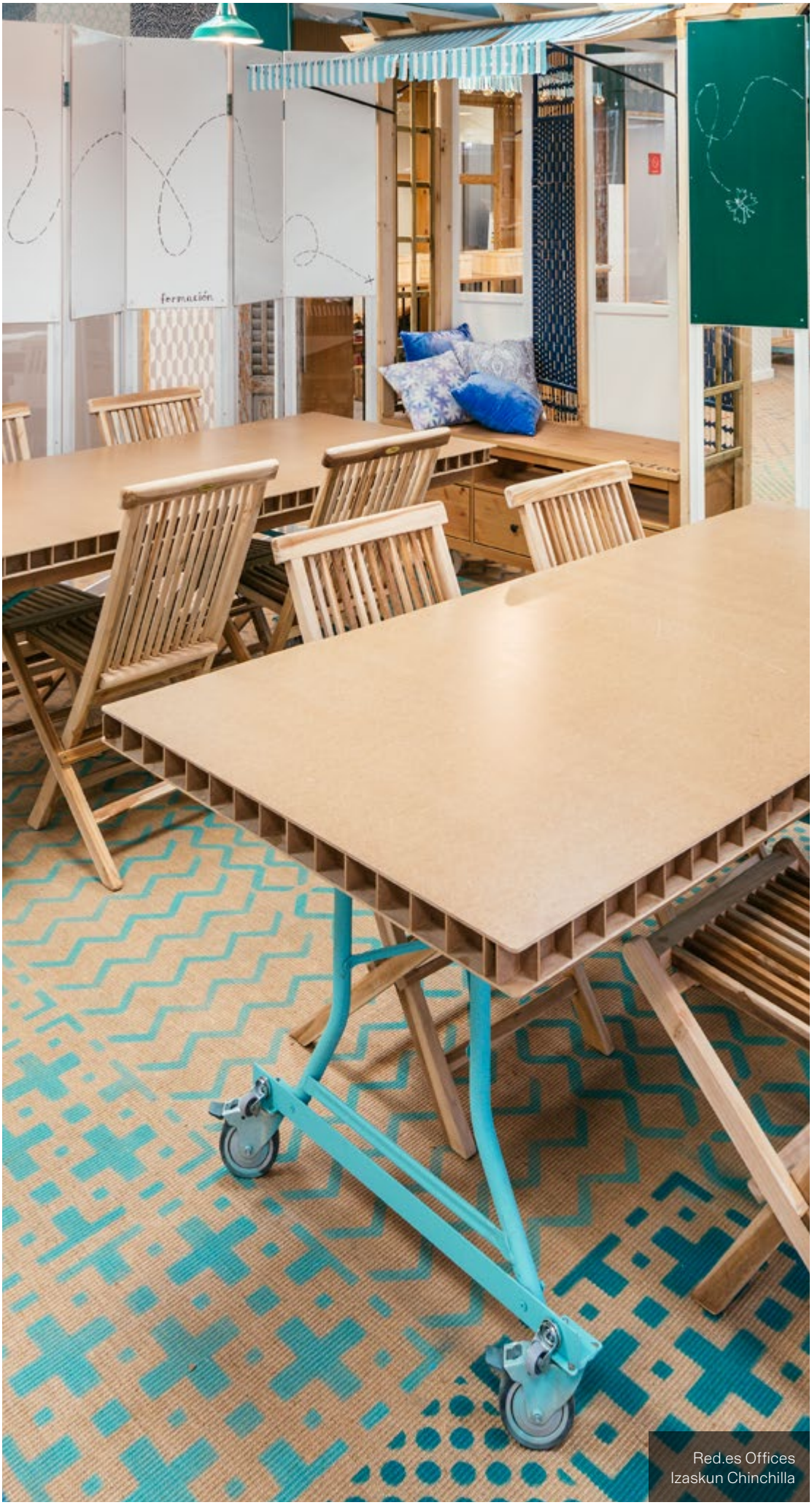
GreenPanel® EZ



GreenPanel® Black EZ

Renovation of the Ágora
Arquitectura studio

Showroom Weststrate
Bureau Koster Vooges



Red.es Offices
Izaskun Chinchilla

3.

CompacDecor®

CompacDecor® EZ is a wood fibreboard specially developed for use in indoor spaces with high humidity or high-resistance requiring spaces.

Olimpo Studio
Central Arquitetos

Characteristics

Compac EZ is a high-density wood fibreboard (> *1000 kg/m3*), with excellent physical-mechanical properties. CompacDecor® EZ products are the result of our firm commitment to technological development and innovation, diversifying our offer to provide solutions for the most demanding projects.

Advantages

EZ Low formaldehyde emission

Excellent mechanical properties (*bending strength, tensile strength, shock resistance,...)* and dimensional stability.

High moisture resistance (*passes V313 and v100 tests*)

Ease of machining (*cutting and drilling*) and installation

Antimicrobial*

* Antibacterial property. The surface of our melamines inhibits the growth or proliferation of bacteria, meaning that it prevents their reproduction and the bacteria age and die. This effect lasts throughout the lifetime of the product. The product has been certified by an external laboratory, IMSL (Industrial Microbiological Services) in the UK, following the procedure indicated by the ISO 22196 Standard: 2011. (Certificate of Analysis No. 1023308.1E-1). The test showed that 24 hours after contact, the bacterial population was reduced by >99.99%. This test is performed with two types of pathogenic bacteria: Escherichia coli (E. coli) and Staphylococcus aureus (S. Aureus).

Certifications

CERTIFIED cradle to cradle PRODUCTS PROGRAM

FSC www.fsc.org FSC® C041397 The mark of responsible forestry

PEFC

Applications

CompacDecor® is an ideal product for Use in different applications such as:

- **Interior furnishings**
  Desks, lockers, display stands...
- **Internal and technical doors**
  Fences and covers...
- **Kitchen furniture**
  Fronts, drawers...
- **Bathroom furniture**
  Fronts, drawers...
- **Other special applications**
  Industrial shelving...

Accessories

ABS edge 0.8mm

Xtraflex 0.2mm

Screw covers 0.2mm

Dental clinic
Dobleese Space & Branding

78E White SR209
Soft III

NCS 0500-N (1)
RAL 9003 (1)

U12 Natural Grey
Soft III

NCS 2000-N (1)
RAL 7047 (2)
Pantone Cool Grey 3 C (1)

71A Gris Gu
Soft III

NCS 7500-N (1)
RAL 7043 (1)
Pantone 425 C (1)

231 Black
Soft III

NCS 9000N (1)
RAL 9004 (1)
Pantone Black C (1)

72E Arosa Aluminium
Soft III

These equivalences are approximate. The number in parentheses corresponds to the following classification:
1 = very similar; 2 = similar; 3 = approximate.

CompacDecor WhiteSR209

Centro comercial La Vital
Estudio Cabana

5. Technical recommendations

General recommendations

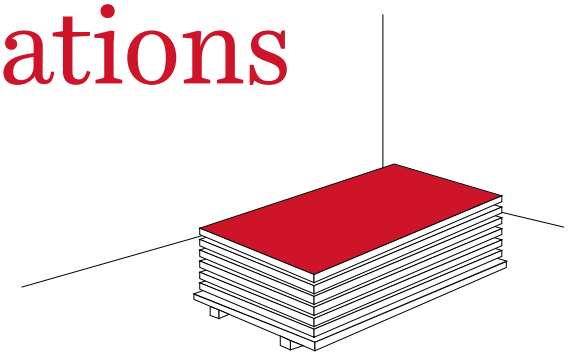
Storage

• It should be stored in closed, ventilated and dry premises, protected from sun, rain, frost and chemical splashes, in compact piles.

• The pallets shall be placed on a level and flat surface and the boards shall be kept packed in a similar condition to the original packaging in order to maintain their properties. When the packages are stacked, vertical alignment of the boards is recommended to avoid deformation.

• Try to avoid subjecting the sides of the board to differing humidity and temperature conditions.

• Storage is especially critical in the case of FibraColour® Ignífugo EZ, so it is very important to keep the original packaging, or very similar, and avoid any humid environment so as to preserve its physical and mechanical properties in optimum condition.



• Moisture fluctuations are more pronounced at the edges, so their protection by proper packaging, and even sealing under changing environmental conditions, is particularly important.

• It is advisable to pay special attention to dry and side impacts, and to handle the board with care to avoid damage. Especially the Greenpanel, given its characteristics, can be damaged at the corners and edges, as well as on the inside, and the top board should preferably be protected by a cover for proper storage and transport.

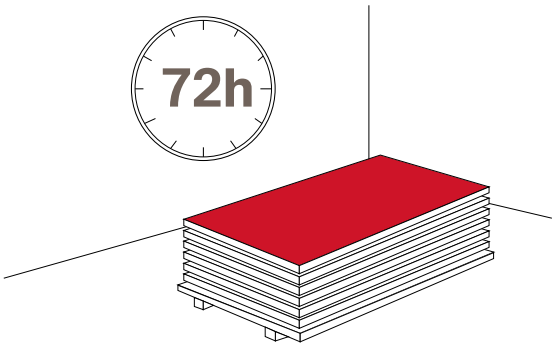
Acclimatisation

• Due to its hygroscopic properties, wood and any form of board derived from it will capture and release humidity from the surrounding environment which, depending on the temperature and humidity conditions of that environment, may cause
dimensional variations.

• Pre-conditioning of the boards is recommended. Before processing, it is advisable to acclimatise it to the environment for at least 2 days before use.

• In the case of on-site installation ***(cladding, etc***.), they must be stabilised at the installation site to achieve balance and minimise dimensional variations once installed.

• The cut parts must be properly stored and, in the case, must be stabilised prior to installation at the same place of installation.



Handling and machining

Handling

• The product must be handled with due care, avoiding intense friction between the faces that could cause damage to the decorative surface.

• It is recommended to use protective measures such as gloves when handling the parts.

Machining and cutting

• For the cutting and machining of the board, the usual tools are used

for other wood-based panels, although parameter adjustments (***cutting speed, feed rate***) may be necessary for a good final finish. For a good result, it is important to ensure correct sharpening and maintenance of the cutting tools as well as the elimination of vibrations in the machine, and to follow other

good practices recommended in carpentry work.

• It is recommended to machine the edge of the board avoiding straight edges, especially with decorative paper.

• If you wish to increase the useful life of the tools, the use of diamond-tipped cutting tools is recommended.

• The characteristics of the product allow it to be machined and used as an exposed edge.

• It is recommended that you consult your usual tool supplier for further information and advice.

Installation

• The method of installation and fastening is critical to ensure proper performance of the panels on-site.

• Due to their hygroscopic behaviour, the boards may take on moisture from the surrounding air or nearby elements, which is why it is very important to acclimatise them beforehand at the installation site and to leave expansion joints around the perimeter of the board once they are installed on-site (in the case of panelled products).

Cleaning

• Prior to finishing, the surfaces must be free of dust or dirt and sanding marks. We recommend pre-sanding with a fine grit before the application of any surface treatment such as lacquer, varnish or oils.

• The melamine board can be cleaned with a damp cloth and a neutral cleaning agent in small doses. Abrasive elements and excessively acidic or basic solutions should be avoided. Prolonged exposure to wet surfaces and/or direct contact with water should be avoided.

Specific recommendations FibraColour®

Features

The mass-coloured boards, due to their manufacturing process, may present variations in tone, not guaranteeing a homogeneity in the colour between boards. These differences can be observed on the same side, between sides of the same board and between different productions. To minimise this effect, keep the following recommendations in mind:

- It is best to use boards from the same production batch.
- Identify the face and back of the board by edge marking, to always work with the same orientation, no interleaving of faces and backs, e.g. In applications such as panelling.
- Before use, conduct a comparison between boards of the same or different thicknesses to check their shade.
- The colour must always comply with the range of colourimetry parameters specified in the technical data sheet.

Edgebanding

Edge sealing is recommended to guarantee the good performance of the board. In the case of transparent pigmented finishes, there may be a slight variation in tone between the surface of the board and the edges due to greater absorption in the latter; the edge sealing mitigates this effect.

Finish

FibraColour® board is supplied unfinished, to which the application of varnish, wax or oil is recommended to protect the surface.

When a surface treatment (varnish, oil, waxes, etc.) is to be applied, we recommend carrying out a preliminary test on a representative sample to check the compatibility of the coating with the board.

It should be taken into account that transparent finishes can change the initial tone of the board, making it darker. We recommend the use of a sealing product before applying the surface treatment.

Highly resistant natural pigments are used in their manufacture. However, direct exposure to sunlight should be avoided to prevent colour changes.

Specific recommendations GreenPanel®

Gluing

As with standard MDF boards, Greenpanel can be coated using white wood glue. It is also possible to use veneer, CPL or HPL (*laminated*). For best results, it is recommended to coat both sides with the required material.

	Natural Veneer	HPL
Temperature	90 ºC	90 ºC
Pressing time	2 minutes	2 minutes
Pressure	Max. 0.5 kg/cm2	Max. 0.5 kg/cm2 80 g/m2
Quantity of adhesive	100 g/m2	

Decorative paper coating

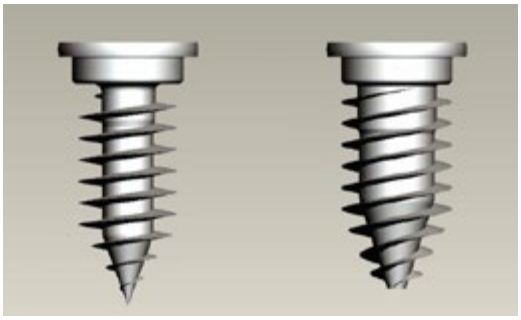
Greenpanel is not a board suitable for direct coating with decorative paper in short cycle presses. Ask for information about our possibilities.

Edgebandings

Greenpanel can be edged like any other wood-based panel up to a thickness of 38 mm. The edge must have a minimum thickness of 2 mm. Above 38 mm a fine adjustment of the edge banding machine is required. From 60 mm upwards, a supporting edge is recommended.

Screws

The reference screw for fixing rails, hinges and other standard connecting fittings is the Varianta HC screw from the manufacturer Häfele. The following picture shows the different types of screws for 3 and 5 mm drill holes.



Specific recommendations CompacDecor®

Installation recommendations

The recommendations given here are for general information purposes only and it is always recommended that experienced professional installers, who are familiar with the regulatory and design requirements applicable in each case, are used for the correct installation of CompacDecor®.

General guidelines:

CompacDecor® is a board for interior use only.

The material shall be dry and shall never be exposed to or come into contact with standing water, even during the assembly process.

- Technical specifications regarding dimensional variations must be observed when designing the installation, considering expansion joints in the case of coatings, or appropriate tolerances in the case of rebates. Likewise, where fasteners are used, adequate dimensional variations must be allowed for during the life of the installation.

- In order to ensure expansion, there shall be a minimum joint between boards of 4 mm/linear board per linear metre.

- There should be no more than a single fixed point on the entire mounting unit, all other fixing points should allow movement (***fixed point rule***).

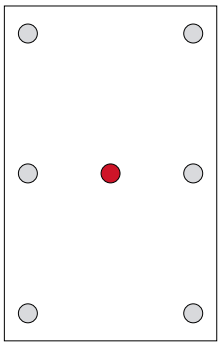
Finsa always recommends sealing edges and exposed areas. The application of edge sealants improves the performance of the board against changing temperature and humidity conditions

- If adhesives are used, they must be flexible to allow movement of the panels.

- If countersunk screws are used, they shall be fitted with support rosettes. If it is a round head screw, it will cover the sliding hole

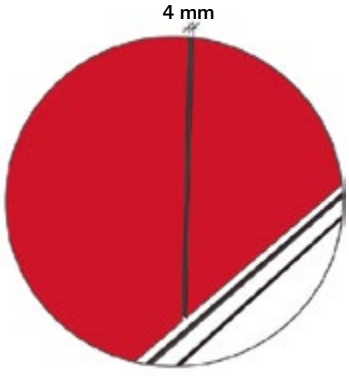
- It is important to ensure good ventilation of the spaces or areas where the boards are installed, even during use.

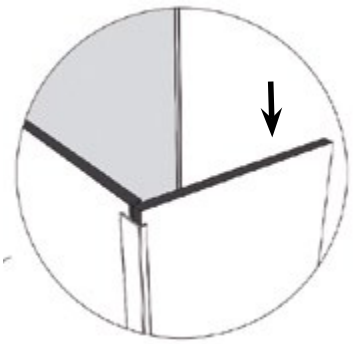
- For decorative purposes, wax, oil or petroleum jelly can be applied to the exposed edge to enhance its colour.



Sliding points

Fixed Points





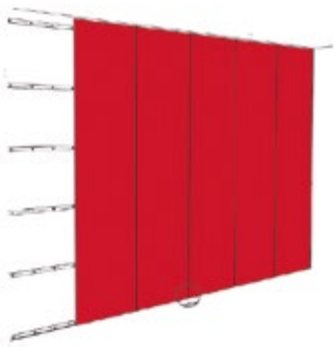
Fittings

• A wide range of hardware is available on the market. CompacDecor® EZ is generally compatible with the standard fittings available for wood panels or phenolic compact.

• It is recommended to follow the instructions and advice given by the hardware manufacturer and to consult them for further information and advice.

Specific recommendations

CompacDecor® is an ideal board for installation as panelling in areas that require intensive cleaning, due to its mechanical and surface properties; as well as suitable for the manufacture of sanitary cabins and bathroom partitions, thanks to its resistance to humidity and an easy-to-clean surface.



Wall cladding

CompacDecor® is suitable for ventilated wall panelling, where the board is fixed to a substructure which is in turn fixed to the brick, concrete or timber wall, ensuring adequate ventilation and air recirculation.

It must always be mounted on a substructure, never directly on the wall, even if it is completely flat, and it must be checked that the wall is completely dry before installing the panels.

The ventilation of the rear chamber, between the board and the wall, guarantees the temperature and humidity balance on both sides of the board, preventing it from warping due to differential variations. In order to ensure air circulation, it is recommended that the chamber thickness is at least 20 mm and that ventilation is provided from the bottom to the top.

The substructure can be constructed using strips of board, wood, steel or aluminium, and be made up of horizontal and/or vertical profiles (battens).

Expansion joints must be left in the joint areas between boards, at least 4 mm/ml, and between the board and other elements of the structure (e.g. columns), allowing for possible dimensional variations.

The CompacDecor® can be fixed to the substructure by:- visible fixing, using screws or rivets from the exposed face to the substructure, - hidden fixing, using aluminium hanging clips or adhesive beads on the back of the board to be fixed or adhered to the substructure, following the recommendations defined above (general instructions).

In case of mounting on horizontal hanging rails, these shall be placed discontinuously in such a way as to ensure vertical ventilation between the panel and the wall, and at the same time, they shall allow the panel to slide on these rails due to possible dimensional variations.

The fastening elements shall be adapted to the weight of the panel.

For visible mechanically fastened cladding

When using screws or rivets as fasteners it is necessary to:- arrange the fasteners starting from the centre of the plate, and - only one fixed point per mounting unit, the rest being sliding points.

A fixed point is defined as a point where the diameter of the hole is the same as the diameter of the fastening element and shall be located as close as possible to the centre of the board.

A sliding point is a point whose hole is larger than the fixing element, at least 4 mm more per metre of board, taken from the fixed point. The diameter of the fastener shall be large enough to cover the bore hole and shall be fixed in such a way as to allow movement of the board, without over-tightening the screw.

Distances for fixings

- Minimum distance to the edge of the board 10 mm
- Maximum distances between fixings: 600 mm for 8 mm thick boards and 800 mm for 13 mm thick boards.

Furniture

Conventional fittings can be used, although in many cases it will be necessary for them to be suitable for thin thicknesses.

A minimum thickness of the board shall be ensured to guarantee the grip of the screw. The diameter of the bore shall be larger than the diameter of the screw or rivet to allow for movement.

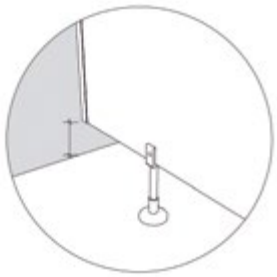
Particular attention shall be paid to ensure proper ventilation of the area where the furniture is located or even inside the furniture (***e.g. inside lockers***).

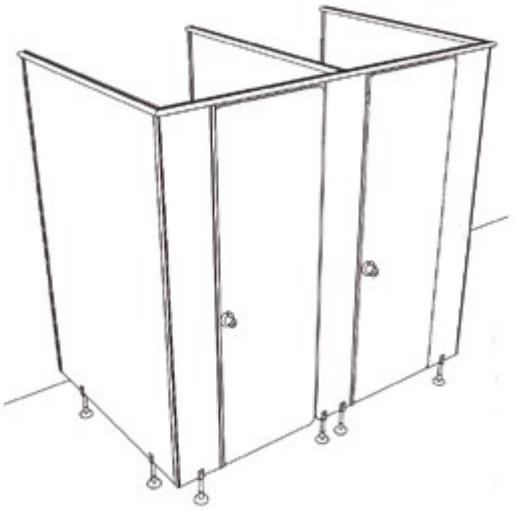
Sanitary cabins

In general, the board should not be permanently exposed to standing water, neither during use, nor during the construction and assembly process. To prevent this from happening, support legs should be fitted to prevent direct contact with the floor and with height adjustment to compensate for unevenness of the floor surface.

Unimpeded air circulation around the panels must be provided to ensure good panel performance. Adequate and sufficient ventilation shall be provided to evacuate moisture and facilitate drying of the area where they are installed.

This board is not recommended for use as a shower partition or shower liner.
Edges and all exposed areas must be sealed.





Recommendations for edge sealants

The information in this section corresponds to general recommendations based on experience. It is up to the end-user to verify whether this product is suitable for his needs, in relation to the type of instruments to be used and the environmental conditions of application.

Renner Sealant FI---M192

Description

Sealant FI---M192----- is a clear two component sealant formulated with polymers that have high insulating properties, resistant to moisture and changing environmental conditions. This polyurethane sealant creates a protective film with high resistance, adhesion to the substrate and high physical and chemical resistance.

Maintenance

For maintenance purposes and depending on the exposure to which the board is subjected, it is recommended to apply a new coat of FI---M192 annually, starting from the second year, previously sanding the old varnish film with 220-240 grain sandpaper, in order to guarantee its unalterable properties during the whole useful life of the board.

Application

1. The substrate shall first be prepared by sanding with 180 grit sandpaper, followed by cleaning of the sanding residues. Before applying the product, the substrate must be free of dust or grease.
2. The preparation of the mixture shall be carried out according to the application method used:
3. Once the mixture is ready, the following recommendations shall be taken into account for its application:

Method of application	Mixing ratio	
Gun / Roller	FI---M192/-----*(sealant)*	1 part
	FC---M192/----*(catalyst)*	5 part

No. of coats	Max. 3
Recommended quantities per coat	Max. 50g/m2
Interval between coats	Max. 1 hour
Lifetime of the mixture	4 hours

For more information: **renneritalia.com**

Technical tests

Tests carried out by AIDIMME, as indicated in the EN 263:2002 standard, have made it possible to evaluate the improved performance of the edgebanding board under changing temperature and humidity conditions, as a result of the application of edge sealant. Finsa recommends the use of edge sealants.

NF Acuaton Universal Sealant

Description

Water-based coating formulated to be used to treat wood substrates or their derivatives, transferring to the substrate resistance to outdoor and alkaline media exposure. Substrates treated with NF Acuaton Universal Sealant have an extremely water-repellent character generated by methylpolyxiloxane additives, which results in the non-absorption of traces of water.

It has outstanding adhesion, convenient permanent elasticity and extraordinary rub resistance. The films generated also have a marked anti-blocking resistance.

Preparation

Remove any grease or oil residues from the surface to be coated and remove any deposited dust. If old paint layers are found, it is advisable to know what kind of paint they are composed of in order to avoid possible incompatibilities. Remove any old paint that has failed to adhere to the substrate.

Application

Methods of application:
roller, brush, spray gun in any of its versions, immersion, automatic, etc.

Suitable type of thinner:
Preferably neutral water.

Drying times:
Data taken according to recommended micronage and recommended dilution. (*30 microns wet*) Touch: 10 minutes. Total: 15 minutes.

Repainting interval:

Room temperature	10°C	25°C	40°C
Minimum	2 hours	15 minutes	5 minutes
Maximum	NO	NO	NO

Tip

It is very important to respect the minimum drying time of the applied layer depending on the ambient temperature, substrate temperature and ambient humidity, before stacking the treated elements in order to avoid possible adhesion problems between parts.

Rubio Monocoat Oil Plus 2C

Description

RMC Oil Plus 2C is an environmentally friendly one-coat oil for interior surfaces, for the protection of high-quality wood products and is environmentally friendly. With a single coat, the oil colours and protects the surface, giving it a natural look. Thanks to the advanced technology that exploits the molecular bonding effect, Rubio Monocoat has the following qualities: one-coat application without visible marks, 0% VOC, water and solvent free, heat resistant and fast drying.

Preparation

First sand the board with 80 grit and repeat the process with 120 grit without applying pressure. This will prevent dust from accumulating. Afterwards, a finer grain can be used. The selected granulation determines the gloss level of the top coat. We recommend working with a 150 grit finish. Then use a compressed air gun or a soft brush to ensure a dust-free surface. Do not use a damp cloth, this creates stains that can no longer be removed.

Mixing

Mix RMC Oil Plus 2C with RMC Accelerator comp. B. Stir the mixture well. We recommend stirring the product regularly during application.

Application

Use a 150 diameter eccentric motion grinder with a 150/20 blue round polishing pad. Soak the sponge in the oil. Starting in a corner, apply the oil to the already polished surface without applying pressure. After that, apply small amounts of oil to the already treated part and spread the product evenly over the board. Treat the entire board in this way. Polish the surface sufficiently. The surface should feel almost dry to the touch.

Allow your work to dry for 12-24 hours.

Tip

Application possibilities: by spray gun at 30 g/m2 with a low pressure gun and 1/1.2 mm nozzle. The oil must then be polished with a blue 150/20 round polishing sponge. RMC Standard Sponge (***for small surfaces***). Excess oil should be removed with cloths.

More information on edge sealing with Rubio Monocoat Oil Plus 2C is available on request.

Technical data sheets

GreenPanel® EZ and GreenPanel® Black EZ

E05 | CARB2

Properties	Test	Thickness (mm)						Units
		28	38	50	60	80	100	
Density*	EN 323	320	260	220	200	175	160	Kg/m^3
Internal traction	EN 319	0.15	0.15	0.15	0.15	0.15	0.15	N/mm^2
Resistance to flexion	EN 310	10	10	7	7	5	5	N/mm^2
Elastic modulus	EN 310	1000	1000	900	900	700	700	N/mm^2
Surface traction	EN 311	> 0.8	> 0.8	> 0.8	> 0.8	> 0.8	> 0.8	N/mm^2
Surface absorption (both sides)	EN 382-1	>150	>150	>150	>150	>150	>150	mm
Humidity	EN 322	7+/-3	7+/-3	7+/-3	7+/-3	7+/-3	7+/-3	%
Emission of formaldehyde	EN 717-1	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	ppm

Tolerance on nominal dimensions

Properties	Test	Thickness (mm) 16/44	Units
Thickness	EN 324-1	+/- 0.5	mm
Length and width	EN 324-1	+/- 2 mm/m max. 5 mm	mm
Bracket	EN 324-2	+/- 2	mm/m
Edge straightness	EN 324-2	+/- 1.5	mm/m

(*) This data is considered indicative.

These data are approximate and cannot serve as a guarantee of the product's characteristics. The technical parameters of this product are subject to change due to the constant evolution of the product and product standards.

For more information visit our website finsa.com.

Technical data sheets

FibraColour® Black EZ (1) (3) (4)

E05 CARB2

Property	Test	2–2.5	>2.5-4	>4-6	>6-9	>9-12	>12-19	>19-30	>30-44	EP (mm)
Density*	EN 323	890/850	850/825	820/800	790/750	750/740	740/710	710/700	690/670	kg/m³
Internal traction	EN 319	0.65	0.65	0.65	0.65	0.60	0.55	0.55	0.50	N/mm²
Bending strength	EN 310	23	23	23	23	22	20	18	17	N/mm²
Elastic modulus	EN 310	-	-	2 700	2 700	2 500	2 200	2 100	1900	N/mm²
Water swelling 24h	EN 317	±0.15	±0.15	±0.15	±0.2	±0.2	±0.2	±0.3	±0.3	%
Humidity	EN 322	7 ±3	7 ±3	7 ±3	7 ±3	7 ±3	7 ±3	7 ±3	7 ±3	%
Tolerance										
Thickness	EN 324-1	±0.15	±0.15	±0.15	±0.2	±0.2	±0.2	±0.3	±0.3	mm
Length and width	EN 324-1	±2, max 5	±2, max 5	±2, max 5	±2, max 5	±2, max 5	±2, max 5	±2, max 5	±2, max 5	mm/m
Bracket	EN 324-2	±2	±2	±2	±2	±2	±2	±2	±2	mm/m

FibraColour® Black Water-repellent EZ (2) (3) (4)

E05 CARB2

Property	Test	2–2.5	>2.5-4	>4-6	>6-9	>9-12	>12-19	>19-30	EP (mm)
Density*	EN 323	880/860	855/830	820	800/770	770/740	740/720	720/710	kg/m³
Internal traction	EN 319	0.90	0.85	0.80	0.80	0.75	0.75	0.70	N/mm²
Bending strength	EN 310	27	27	30	30	30	28	25	N/mm²
Elastic modulus	EN 310	2 700	2 700	2 700	2 700	2 700	2 500	2 500	N/mm²
Water swelling 24h	EN 317	30	18	12	10	8	7	7	%
Humidity	EN 322	7 ±3	7 ±3	7 ±3	7 ±3	7 ±3	7 ±3	7 ±3	%
Accelerated ageing tees. Swelling after cycling test (V313)	EN 321 EN 317	40	25	19	16	15	15	15	%
Accelerated ageing tees. Internal tensile strength after cyclic test (V313)	EN 321 EN 319	0.35	0.35	0.30	0.25	0.20	0.15	0.15	N/mm²
Tolerance									
Thickness	EN 324-1	±0.15	±0.15	±0.2	±0.2	±0.2	±0.3	±0.3	mm
Length and width	EN 324-1	±2, max 5	±2, max 5	±2, max 5	±2, max 5	±2, max 5	±2, max 5	±2, max 5	mm/m
Bracket	EN 324-2	±2	±2	±2	±2	±2	±2	±2	mm/m

FibraColour® Black Ignífugo EZ (1) (3) (4) (5)

E05 CARB2 B-s2, d0

Property	Test	10-12	>12-19	Thickness (mm)
Density*	EN 323	860/820	800/780	kg/m³
Internal traction	EN 319	0.6	0.55	N/mm²
Bending strength	EN 310	22	20	N/mm²
Elastic modulus	EN 310	2 500	2 200	N/mm²
Water swelling 24h	EN 317	15	12	%
Humidity	EN 322	7 ±3	7 ±3	%
Fire performance	EN 13501-1	B-s2, d0	B-s2, d0	Euroclasse
Tolerance				
Thickness	EN 324-1	±0.2	±0.2	mm
Length and width	EN 324-1	±2, max 5	±2, max 5	mm/m
Bracket	EN 324-2	±2	±2	mm/m

FibraColour® Gris, Amarillo, Antracita, Azul and Rojo EZ (1) (3) (4)

E05 CARB2

Property	Test	10-12	>12-19	>12-19	Thickness (mm)
Density*	EN 323	740/730	695/650	650/640	kg/m³
Internal traction	EN 319	0.6	0.55	0.55	N/mm²
Bending strength	EN 310	22	20	18	N/mm²
Elastic modulus	EN 310	2 500	2 200	2100	N/mm²
Water swelling 24h	EN 317	15	12	10	%
Humidity	EN 322	7 ±3	7 ±3	7 ±3	%
Tolerance					
Thickness	EN 324-1	±0.2	±0.2	±0.3	mm
Length and width	EN 324-1	±2, max 5	±2, max 5	±2, max 5	mm/m
Bracket	EN 324-2	±2	±2	±2	mm/m

(*) This data is considered indicative

1. These physical-mechanical values meet/improve the values set out in European Standard EN 622-5:2009 Table 3: Requirements for boards used in a dry environment.
2. These physical-mechanical values comply with the values laid down in the European standard EN 622-5:2009 Table 4: Requirements for boards for general use in wet environment.
3. It is certified in accordance with CARB Formaldehyde Emission Stage 2 and US EPA TSCA Title VI. E05.
4. It is a product with reduced formaldehyde emission E05 and complies with the requirements of Class E1 as defined in the European Standard EN 622-1:2003.
5. It has an EC performance verification certificate issued by AENOR with number 099/CPR/A65/0031.

Due to the continuous development of the product and the standards by which it is governed, some parameters may change. For more information, or to download the complete technical data sheets, please consult the website finsa.es.

Technical data sheets

CompacDecor® EZ

E05 CARB2

Properties	Test	Thickness (mm)			Units
		6	>6/12	>12/19	
Density*	EN 323	1050	1050	1050	Kg/m^3
Internal traction	EN 319	1.8	1.8	1.8	N/mm^2
Resistance to flexion	EN 310	55	55	55	N/mm^2
Elastic modulus	EN 310	5 000	5 000	5 000	N/mm^2
Swelling in water 24 h	EN 317	1	1	1	%
Dimensional stability length/width	EN 318	0.40	0.40	0.40	%
Dimensional stability thickness	EN 318	6	6	6	%
Surface traction	EN 311	1.7	1.7	1.7	N/mm^2
Humidity	EN 322	7+/-3	7+/-3	7+/-3	%
Silica content	ISO 3340	0.05	0.05	0.05	% Weight
Swelling at the edges	EN 13329	7	7	7	%
Reaction to fire Table 8 EN 13986:2006+A1:2015	EN 13501-1	E	D-s2,d0(**)	D-s2,d0(***)	Class
Accelerated ageing test (option 1). Swelling after cyclic test (v313)	EN 321 / EN 317	2	2	2	%
Accelerated ageing test (option 1). Internal tensile strength after cyclic test (v313)	EN 321 / EN 319	0.60	0.60	0.60	N/mm^2
Accelerated ageing test (option 2). Internal tensile strength after firing test (v100)	EN 1087-1 / EN 319	0.2	0.2	0.2	N/mm^2
Sound absorption coefficient **(α)**(250 to 500 Hz)	EN 3986:2006+A1:2015	10	10	10	**α**
Sound absorption coefficient **(α)**(1000 to 2000 Hz)	EN 13986:2006+A1:2015	0.20	0.20	0.20	**α**
Thermal conductivity	EN 13986:2006+A1:2015	0.19	0.19	0.19	W/ (m-K)
Airborne sound insulation (R)	EN 13986:2006+A1:2015	25	27	29	db
Water vapour resistance factor. Dry cup	EN 13986:2006+A1:2015	43	43	43	μ
Water vapour resistance factor. Wet cup	EN 13986:2006+A1:2015	30	30	30	μ
Biological durability	EN 335	1 & 2	1 & 2	1 & 2	Usage Class
Pentachlorophenol content	EN 13986:2006+A1:2015	<5	<5	<5	ppm

Tolerance on nominal dimensions

Properties	Test	Thickness (mm)			Units
		6	>6/12	>12/19	
Thickness in relation to nominal value	EN 14323:	+/-0.3			mm
Thickness on a single board	EN 14323:	max-min <0.6			mm
Length and width	EN 14323:	+/- 2 mm/m max 5.0 mm			mm
Flatness (only in balanced coatings)	EN 14323:	-	-	2(e≥15 mm)	mm/m

Coating

Properties	Test	Thickness (mm)	Units
Scratch resistance	EN 14323:	≥2	N
Cracking resistance	EN 14323:	≥4	Grade
Stain resistance (group 3)	EN 14323:	≥4	Grade
Colour fastness to UV light (xenon lamp)	EN 14323:	>6	Blue wool pattern, no.
Resistance to dry heat	EN 14323:	≥4	Grade
Impact resistance	EN 14323:	≥1500	Mm H
Antibacterial efficiency	ISO 22196	≥99.9	%
Visual defects			
Edge damage	EN 14323:	≤10 (****) ≤3(*****)	mm
Appearance defects. Points	EN 14323:	≤2	mm^2/m^2
Appearance defects. Scratches	EN 14323:	≤20	mm/m^2

Abrasion Resistant

Properties	Test	IP number of laps	Class
Abrasion resistance. Designs	EN 14323:	<50	1
Abrasion resistance. Unicolours and AH finishes	EN 14323:	>150	3A

(*) This data is considered indicative.

(**) Without air gap behind the CompacDecor® EZ for thicknesses greater than or equal to 9 mm. Classification D-s2,d2 with confined air space or free air space less than or equal to 22 mm behind CompacDecor® EZ ≥9 mm. Classification E for all other conditions of use/thickness. According to Decision 2007/348/EC.

(***) Without air gap behind the CompacDecor® EZ or for thickness greater than or equal to 18 mm in all conditions. D-s2,d2 classification for all other conditions of use. According to Decision 2007/348/EC.

(****) Commercial dimensions.

(*****) Boards cut to size.

These physical-mechanical values meet/improve the values set out in the European standard EN 622-5:2009, table 4. -Requirements for boards for general use in humid environment (Type MDF.H).

Product tested by IMSL following the procedure indicated by ISO 22196:2011, verifying that it offers performance that inhibits the growth and development of bacteria without impairing the characteristics of the coating.

CompacDecor® EZ is a product with reduced formaldehyde emission E05 (< 0.05 ppm EN 717-1).

CompacDecor® EZ is US EPA TSCA TITLE VI and CARB Phase 2 compliant when manufactured by applying decorative paper to CompacDecor® EZ baseboard with US EPA TSCA TITLE VI and CARB Phase 2 compliance certificate issued by TPC-15.

Finsa

Technical data

CompacDecor® EZ

Evaluation of the resistance of the coating. Reference White SR209

Characteristics	Standard		HPL standard requirement	CompacDecor® EZ
Appearance	EN 56 867	Assessment	Zero defects	Zero defects
Stain resistance	EN 468-4	Group 1 agents. Assessment	≥5	5
		Group 2 agents. Assessment	≥5	5
		Group 3 agents. Assessment	≥4	5
Stain resistance. Kitchen furniture. Work spaces	EN 56 842	Assessment	≤1	0
Stain resistance. Bathroom furniture. Toilet spaces	EN 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	EN 56 842	Assessment	No cracks	No cracks
Resistance to ball drop. Bathroom furniture	EN 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	EN 56 867	Colour. Assessment	≥4	5
		Gloss. Assessment	≥4	5
Resistance to dry heat at 180 °C	EN 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	EN 48025	Assessment	Zero defects	Zero defects
Resistance to attack by hydrochloric acid	Internal method	Assessment	---	5

Technical Results

The Metal-Mechanical, Furniture, Wood, Packaging and Related Technological Institute (AIDIMME) is a non-profit association established in 1984, which has one of the best Technological Institutes in Europe. A complete characterization of CompacDecor® EZ has been carried out in its laboratories, with evaluation of both the properties of the board and its coating. The CompacDecor® EZ product tested meets the requirements set forth in the following standards, applicable to kitchen and bathroom furniture:
EN 56 842 / EN 56 843 / EN 56 867 / EN 56 868 / ISO 19712-1

Thermal conductivity

Thanks to its good thermal conductivity values, CompacDecor® EZ is a perfect product for wall cladding, since it substantially improves thermal insulation and thus reduces energy consumption.

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:

Hot water resistance **EN 263 standard**	100 ciclos 60°C · 30 min 20°C · 30 min	Longitudinal increase 0.27% Thickness increase 6.3%
Thermal stability **EN 263 standard**	200ºC · 20 min	Longitudinal increase -0.1 mm/m Thickness increase -0.80%
Thermal shock cycles **EN 48025 standard**	40 ciclos 60°C · 60 min -20°C · 60 min 20°C · 15 min	No effects
Dimensional stability at high temperature **EN 438 standard**	70ºC · 24 h | 40°C · 90% · 96 h	Longitudinal increase 0.37% Thickness increase 0.38%
Dimensional stability to humidity changes **EN 318 standard**	20°C I. 30% - 65% - 85% II. 85% - 65% - 30%	Longitudinal increase 0.22% Thickness increase 0.33%

Time · Temperature · Submerged in water · Relative humidity · Test · Results

Technical data sheets

CompacDecor® Ignífugo EZ

B-s1, d0

Properties	Test	Thickness (mm)		Units
		8/12	>12/19	
Density*	EN 323	1050	1050	Kg/m^3
Internal traction	EN 319	1.8	1.8	N/mm^2
Resistance to flexion	EN 310	45	45	N/mm^2
Elastic modulus	EN 310	4 000	4 000	N/mm^2
Swelling in water 24 h	EN 317	2	2	%
Dimensional stability length/width	EN 318	0.40	0.40	%
Dimensional stability thickness	EN 318	6.0	6.0	%
Surface traction	EN 311	1.7	1.7	N/mm^2
Humidity	EN 322	7+/-3	7+/-3	%
Swelling at the edges	EN 13329	10	8	%
Fire performance	EN 13501-1	B-s1,d0	B-s1,d0	Euroclass
Accelerated ageing test (option 2). Swelling after the cyclic test (v313)	EN 1087-1 / EN 319	0.20	0.15	N/mm^2
Sound absorption coefficient **(α)**(250 to 500 Hz)	EN 3986:2006+A1:2015	0.10	0.10	**α**
Sound absorption coefficient **(α)**(1000 to 2000 Hz)	EN 13986:2006+A1:2015	0.20	0.20	**α**
Thermal conductivity	EN 13986:2006+A1:2015	0.19	0.19	W/ (m-K)
Airborne sound insulation (R)	EN 13986:2006+A1:2015	26	29	db
Water vapour resistance factor. Dry cup	EN 13986:2006+A1:2015	43	43	μ
Water vapour resistance factor. Wet cup	EN 13986:2006+A1:2015	30	30	μ
Biological durability	EN 335	1 & 2	1 & 2	Usage Class
Pentachlorophenol content	EN 13986:2006+A1:2015	<5	<5	ppm
Mechanical durability	EN 13986:2006+A1:2015	Table3.1, EN1995-1:2004; Table3.2, EN1995-1:2004;		Kmod kdef

Tolerance on nominal dimensions

Properties	Test	Thickness (mm)		Units
		8/12	>12/19	
Thickness	EN 324-1	+/-0.3		mm
Length and width	EN 324-1	+/- 2mm/m max 5mm		mm
Bracket	EN 324-2	+/-2.0		mm/m
Edge straightness	EN 324-2	+/-1.5		mm/m

Coating

Properties	Test	Thickness (mm)	Units
Scratch resistance	EN 14323:	≥2	N
Cracking resistance	EN 14323:	4	Grade
Stain resistance (group 3)	EN 14323:	4	Grade
Colour fastness to UV light (xenon lamp)	EN 14323:	>6	Blue wool pattern, no.
Resistance to dry heat	EN 14323:	4	Grade
Impact resistance	EN 14323:	1500	Mm H
Antibacterial efficiency	ISO 22196	≥99.9	%
Visual defects			
Edge damage	EN 14323:	≤10 (**) ≤3(***)	mm
Appearance defects. Points	EN 14323:	≤2	mm^2/m^2
Appearance defects. Scratches	EN 14323:	≤20	mm/m^2

Abrasion Resistant

Properties	Test	IP number of laps	Class
Abrasion resistance. Designs	EN 14323:	<50	1
Abrasion resistance. Unicolours and AH finishes	EN 14323:	>150	3A

(*) This data is considered indicative.

(**) Commercial dimensions.

(***) Boards cut to size.

CompacDecor® Ignífugo EZ has an abrasion resistance class 3B (>650 turns) as defined in the European standard EN 14322 in the standard range of one-colour designs.

Product tested by IMSL following the procedure indicated by ISO 22196:2011, verifying that it offers performance that inhibits the growth and development of bacteria without impairing the characteristics of the coating.

These physical-mechanical values meet/improve the values set out in the European Standard EN 622-5:2009, Table 6 "Requirements for structural boards for general use in wet environment (Type MDF. HLS)".

CompacDecor® Ignífugo EZ is a product with reduced formaldehyde emission E05 (< 0.05 ppm EN 717-1) and complies with the requirements of ClassE1 as defined in the European Standard EN 14322.

CompacDecor® Ignífugo EZ is US EPA TSCA TITLE VI and CARB Phase 2 compliant when manufactured by applying decorative paper to CompacDecor® Ignífugo EZ backer board with US EPA TSCA TITLE VI and CARB Phase 2 compliance certificate issued by TPC-15.

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