

Finsa

Fire retardant solutions

Fire retardant technical wood based solutions for all types of projects



Fire retardant wood based boards, all in one place

A wide variety of raw and decorative boards that combine all the potential of wood based products with improved fire retardant properties.

A solution adapted to each project, multiple combination options for all types of interiors or applications.



Index

01 Sustainability
Page 6

02 Wood and fire safety
Page 8

03 Product range
Page 22

04 Projects
Page 28

05 Technical information
Page 36

Sustainability

01/

At Finsa we think responsibly and manufacture all our products in compliance with the most demanding environmental standards and certifications.

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.

 **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.

 **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 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 EU regulation 995/2010 which guarantees the legal origin of the timber.



This is an internationally recognised standard that verifies the self-declaration of recycled content under the two reference standards:

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

ISO 14021
Standard setting out the requirements for environmental self-declarations made directly by manufacturers.

Certifications

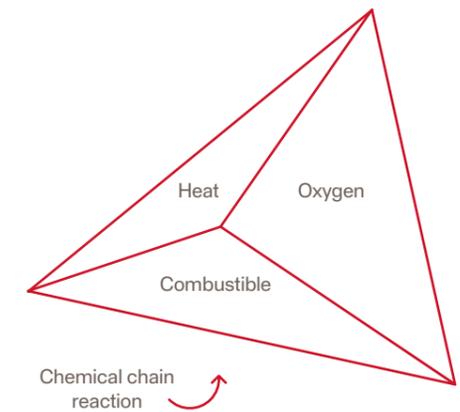
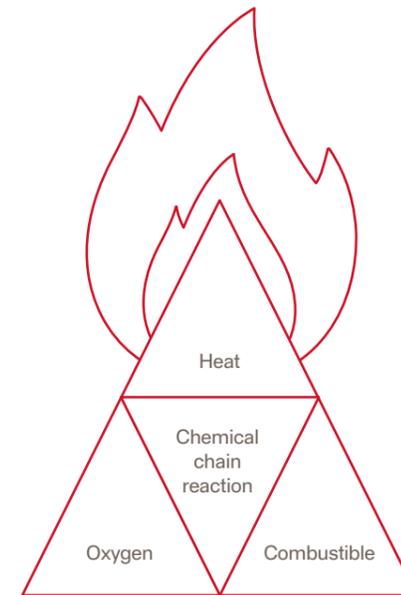
BREEAM, LEED, VERDE, WELL and LBC
Our wood solutions help meet the requirements of sustainable building certifications.



Wood and fire safety



02/



Fire safety in construction

All over the world, fires cause a large number of human victims and considerable property damage. When designing a facility, it is important to find out what materials can slow down the spread of fires, thereby contributing towards a swift evacuation and enabling the use of extinguishing agents to minimise possible damage caused.

While designing the facilities, it is therefore crucial to select materials that limit the development and spread of fire and, consequently, mitigate all the associated risk situations.

Fire is a chemical combustion reaction, a process of rapid oxidation of a material releasing heat, flames and gases.

We normally talk about the fire triangle, which is based on the assumption that, for a fire to start and develop, three elements have to be present at the same time:

- Combustible
- Combustion agent (Oxygen)
- Activation energy: energy (heat) required for the start of the reaction.

However, another element (the chain reaction) needs to be included for this fire to spread and continue without the source of ignition. The inclusion of this fourth factor results in the fire tetrahedron, which helps explain the combustion process.

How does a Fire develop?

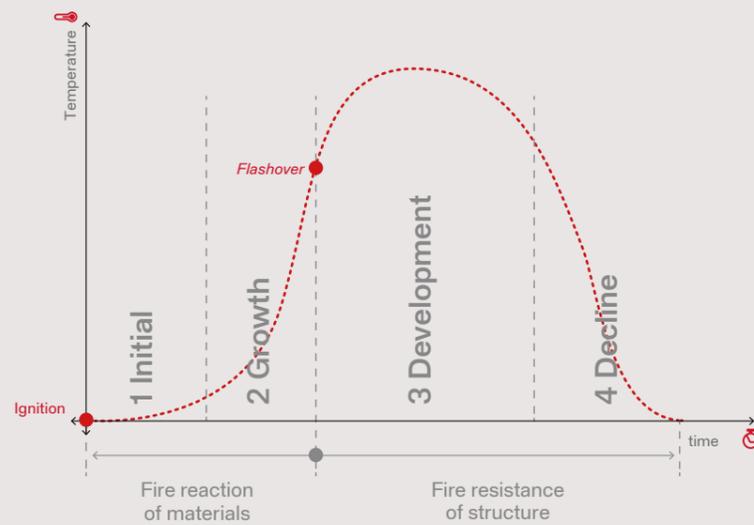
There are several stages in the development of a fire:

1. **Initial:** fire is dormant. A small part of the combustible burns.
 2. **Growth:** the rate of combustion increases and the fire is stoked. The fire starts to spread (by radiation or through direct contact with the flames).
- Flashover:** the point where there is a sudden increase in temperature, giving rise to a fully developed fire.
3. **Development:** all combustibles at the premises are burned. The fire's maximum temperature is reached.
 4. **Decline:** this is where the temperature drops for lack of combustible (used up) or oxygen or the absence of a chain reaction.

Fire protection strategies differ according to the fire's stage of development:

Prior to the flashover, its development is limited by acting on building materials', furniture's and coatings' flammability and on the way these contribute to fire. Key factor: reaction to fire.

After the flashover, the strategy focuses on delimiting the dimensions of the fire (compartmentalising) and protecting the structure to prevent its collapse. Key factor: fire resistance



Development phases and key factors

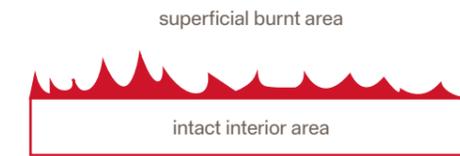




How does wood behave when there is fire?

Fire behaviour and the stability of the structure with increased temperature will, to a large extent, depend on the material used for building it.

When a fire starts, wood's low thermal conductivity causes combustion to develop only on the surface. The charred layer acts as insulation, protecting the inner layers, keeping them at a lower temperature and preserving their mechanical properties. Wood is considered to have good fire behaviour in a fire at the full development stage.



Comparison to other materials

Steel

A non-combustible material but with little stability against fire, which starts to lose its resistance and become deformed at high temperatures, despite being a very good conductor of heat.



Concrete

Its resistance will mainly depend on the behaviour of the steel frame.





Reaction to fire

Reaction to fire tests the ability of a given material to promote the development of the fire, by measuring properties such as flame propagation, heat emission, smoke production and flaming droplets.

Nomenclature

B_{fl} - s2, d0

d (droplets): falling flaming droplets/particles

s (smoke): smoke production In the case of flooring, only this factor is considered.

The capital letter represents the contribution towards fire and is the main part of the classification.

The subscript fl (floor) is included when its end purpose is flooring.

Euroclasses

Building products shall be classified according to Euroclasses, as per standard EN 13501-1 regarding the “classification of the reaction to fire of building materials”.

Classification according to standard EN 13501-1

Main Classification	Combustibility	Final application		Combustible	Contribution towards fire	
		Walls & ceilings	Flooring			
A1	A1	A1	A1 _{fl}	NO	NO	To the highest degree
A2	A2	A2	A2 _{fl}	NO	NO	To a lesser degree (flame duration < 20s)
B	B	B	B _{fl}	YES	YES	Very limited
C	C	C	C _{fl}	YES	YES	Limited
D	D	D	D _{fl}	YES	YES	Medium
E	E	E	E _{fl}	YES	YES	High
F	F	F	F _{fl}	Not classified		

Additional Classifications	Smoke production	Flaming droplets / particles	
	s1	d0	No production of droplets
	s2	d1	No production of droplets t >10s
	s3	d2	Not classified

Tests

The addition of fire retardant products enables improved reaction to fire, as the boards are tested and classified by accredited laboratories and they bear the CE marking, which is valid in any European Union country.

Materials are classified according to their final application, as different tests will be conducted depending on the target classification. For materials catalogued as combustible (B, C and D):

On walls and ceilings:

SBI (Single Burning Item) method according to standard EN 13823, which simulates a fire in a litter bin in the corner of a room

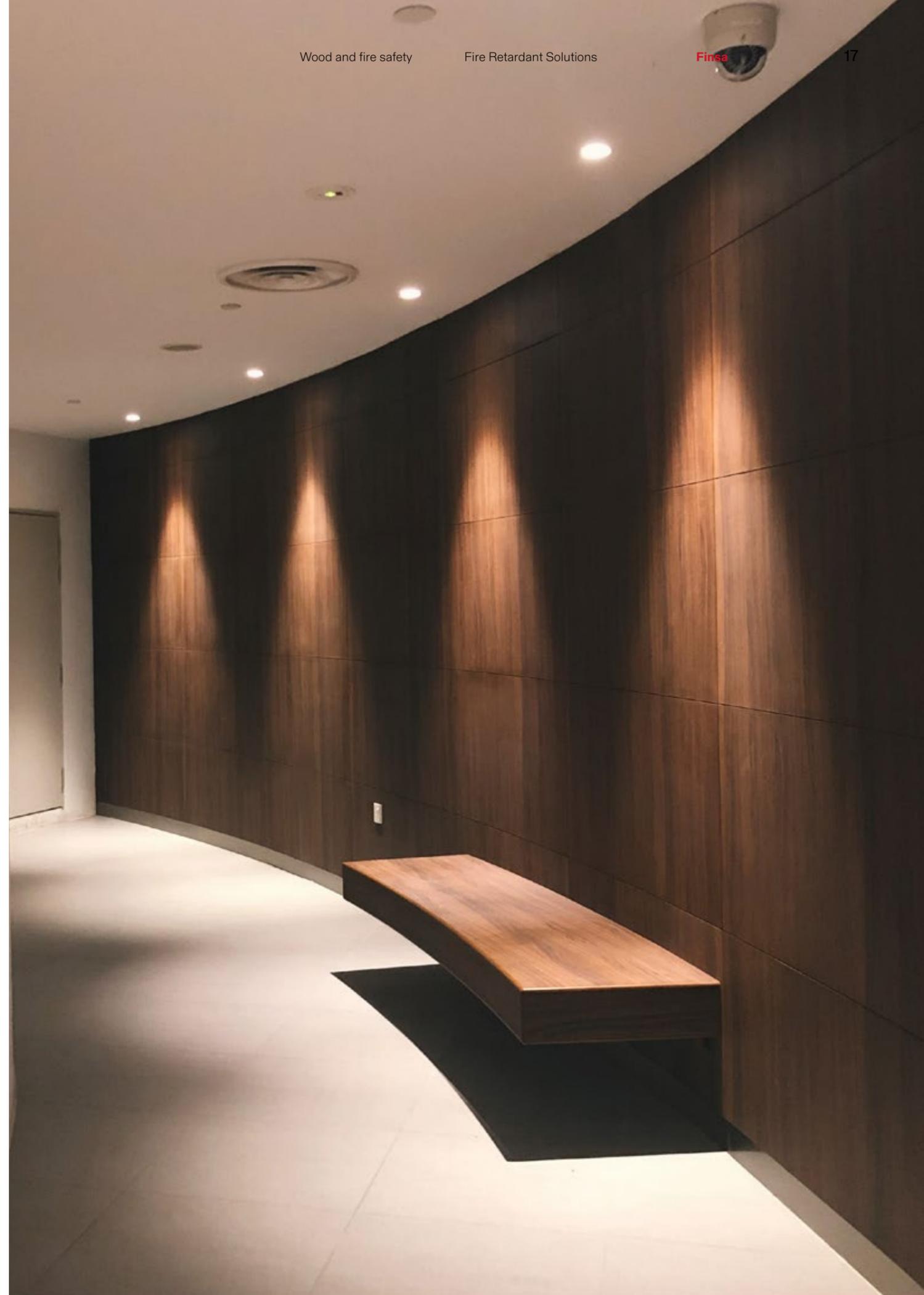
On flooring:

Testing on a radiating panel according to standard EN ISO 9239-1, where the covering is submitted to the action of a heat panel and flames at one end of the flooring.



Wood-based boards can be classified without the need for testing, as per Decision 2007/348/CE, according to the product type, end use conditions, minimum density and thickness, as shown in the following example:

Product	EN Standard	End use conditions	Minimum density (kg/m ³)	Minimum thickness (mm)	Class (except flooring)	Class (flooring)
MDF	EN 622-5	With confined air space behind the wood-based board	600	15	D-s2, d0	D _{fl} -s1



Fire resistance

Fire resistance measures the capacity of a building element to maintain its supporting function when a fire develops, as well as its integrity and/or thermal insulation during a given period of time.

This is a property of end building elements, and so, to determine this, testing is conducted on the entire set, which is classified according to standard EN 13501-2, by exposing the building element to rising temperatures over time.

Nomenclature

REI t

R: Resistance, referring to maintenance of structural stability.

I: Insulation of a building element with a separating function, preventing fire from spreading through excessive heating of the non-exposed area.

E: Integrity of a building element with a separating function, to prevent flames or hot gases from entering the non-exposed area or adjacent materials.

t: Standardised time scale expressed in min. e.g.: REI 60, if the element retains said functions (REI) for 60 min.

Building regulations

Local construction regulations establish the minimum parameters of behaviour of materials and construction elements in situations of fire.



Lift standards

From 31st August 2017, all newly installed lifts shall comply with standards EN 81-20 and EN 81-50, which set forth safety regulations regarding the construction and installation of lifts, basic design requirements, and those pertaining to inspections and testing of their components.

These harmonised standards introduce significant changes regarding accessibility and safety for passengers and maintenance workers. These include introduction and compliance with the following minimum requirements for classifying reaction to fire of finishings inside the cabin, according to standard EN 13501-1, given its field of use:

Final application	Euroclass
Floors	C _{fl} -s2
Walls	C-s2, d1
Ceilings	C-s2, d0

U.S. Standard

Testing method ASTM E-84 (Standard test method for surface burning characteristics of building materials) enables evaluating how building materials contribute to fire, according to the U.S. standard. This method is primarily based on determining the flame-spread to describe the material surface's contribution to the fire, which allows establishing a three-level classification:

Classes	Flame Spread	Smoke Developed
A	0-25	0-450
B	26-75	0-450
C	76-200	0-450

Specific certifications for naval shipping



Materials intended for shipbuilding or ship repairs and vessel equipment shall meet a set of minimum safety requirements set forth in the International Convention for Safety of Life at Sea (SOLAS), adopted by the International Maritime Organisation (IMO). Therefore, the materials shall be tested in order to evaluate how they respond to fire, according to their type and end use.

The Wheelmark brand sets forth Finsa's conformity with Directive 2014/90/EU on Marine Equipment (Marine Equipment Directive or MED).

The Finsa Range includes products bearing the Wheelmark brand, such as FibraPan® H IGN EZ, products specifically certified for use by naval material suppliers in shipbuilding.



Product range

Walls and ceilings						
Type	Product	Additional properties*	Classification			USA
			EU			
			B-s1, d0	B-s2, d0	C-s1, d0	C-s2, d0
Baseboard						
Chipboard	FimaPan® IGN EZ		12-42 mm			10-30 mm
SuperPan®	SuperPan® IGN EZ		12-42 mm	8-<12 mm		19 mm
	SuperPan® Tech P4 IGN EZ	 	12-42 mm	8-<12 mm		
Fibreboard	FibraPan® IGN EZ**		10-30 mm	3-<10 mm		10-30 mm
	FibraPan® IGN			>30-50 mm		
	Mediland M1 EZ		10-30 mm			
	FibraPan® IGN Forma EZ	 		10-30 mm		
	FibraPan® IGN NAF		5-18 mm			
	FibraPan® H IGN EZ	 	10-22 mm			
	Compac IGN EZ	 	8-19 mm			
	Decorative Panels	FibraColour® Negro IGN EZ	 		9-19 mm	
Textured panels	FibraPan® IGN EZ Tex	 		10-25 mm		
With decorative paper						
Chipboard	FimaPan® IGN EZ Decor		10-40 mm			
SuperPan®	SuperPan® IGN EZ Decor		8-42 mm			
	SuperPan® Tech P4 IGN EZ Decor	 	8-42 mm			
Fibreboard	FibraPan® IGN EZ Decor		10-30 mm			10-30 mm
	FibraPan® H IGN EZ Decor	 		12-19 mm		
Decorative Panels	FibraColour® Negro IGN EZ Decor	 	19 mm	16-<19 mm		
	CompacDecor IGN EZ	 	8-19 mm			8-19 mm
With natural decorative surfaces***						
Chipboard	FimaPan® IGN EZ Natur					11-20 mm
Fibreboard	FibraPan® IGN EZ Natur				11-31 mm	11-31 mm
Decorative Panels	FibraColour® Negro IGN EZ Natur	 				20 mm
Ceilings (mezzanine floors)						
SuperPan®	SuperPan® Tech P5 EZ Decor B	 		38 mm		
	SuperPan® Tech P6 EZ Decor B	 		30 & 38 mm		

*All these products comply with the E05 formaldehyde emission classification.
 ** It includes the FibraPan® IGN EZ SC (without colourant).
 *** Please check available veneers with certificates in the product data sheet.

03/

Flooring			
Type	Product	Properties	EU Classification
Technical flooring for mezzanines	SuperPan® Tech P4 EZ Decor Gris 1 Anti-slip (30-38 mm)*	 	B _{fl} -s1
	SuperPan® Tech P4 IGN EZ	 	B _{fl} -s1
	SuperPan® Tech P4 IGN EZ Decor	 	B _{fl} -s1
	SuperPan® Tech P5 EZ Decor	 	B _{fl} -s1
	SuperPan® Tech P5 EZ Decor B	 	B _{fl} -s1
	SuperPan® Tech P6 EZ Decor Anti-slip (30-40 mm)	 	B _{fl} -s1
	SuperPan® Tech P6 EZ Decor B	 	B _{fl} -s1

*All decorative elements and designs with overlay

Applications

The broad range of Finsa fire retardant Solutions enables responding to the most demanding projects while covering numerous applications, where regulations require proper behaviour in case of fire.

We will guide you in your quest for the best solution for every application.

Structural applications

- SuperPan® Tech P5 EZ Decor B
- SuperPan® Tech P6 EZ Decor B
- SuperPan® Tech P4 IGN EZ Decor

These boards combine, in the same product, the properties of structural boards with those of fire retardant boards.

They are particularly recommended for office mezzanines, where fire resistance requirements must be combined with structural performance. The boards are also suitable for mezzanine flooring and shelving applications, or whenever enhanced fire performance is required. SuperPan Tech P4 IGN EZ Decor achieves Bs1,d0 and Bfl-s1. When used in mezzanine applications, Decor B is classified Bs2,d0 on the underside (ceiling) and Bfl-s1 on the upper surface (floor).

They can be combined with a broad range of decorative paper designs and finishings, and so they also provide a decorative solution for your project.

- SuperPan® Tech P4 EZ Decor
- SuperPan® Tech P6 EZ Decor
- SuperPan® Tech P5 EZ Decor

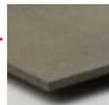
These boards are suitable for applications in mezzanines and industrial shelving with a wide range of decors and with an anti-slip finish. They come with the Bfl-s1 certification, for projects calling for improved reaction to fire as a floor covering.

Key:



Industrial applications

Within the range of fire-resistant boards, industrial customers can select the quality most suited to their needs. Baseboards for lacquering, painting, covering with veneer and laminate, or the use of other finishings along with certified decorative boards. Special-interest offers in industrial carpentry specialising in coating for ceilings and walls, as well as acoustic solutions, among others.

	Baseboard	Decorative surfaces	Natural decorative surfaces
Particleboard	 FimaPan® IGN EZ	 FimaPan® IGN EZ Decor	 FimaPan® EZ IGN Natur
SuperPan®	 SuperPan® IGN EZ	 SuperPan® IGN EZ Decor	
Fibreboard	 FibraPan® IGN EZ	 Mediland M1 EZ	 FibraPan® IGN EZ Decor
	 FibraPan® H IGN EZ	 FibraPan® IGN Forma EZ	 FibraPan® H IGN EZ Decor
	 FibraPan® IGN NAF	 Compac IGN EZ	 CompacDecor IGN EZ
	 FibraColour® Negro IGN EZ	 FibraColour® Negro IGN EZ Decor	 FibraColour® Negro IGN EZ Natur
	 FibraPan® IGN EZ TEX		

		Industrial applications (orientative)				
		Panels	Screens	Acoustic walls and ceilings	Coating baseboard	Surface machine work
Baseboard						
Chipboard	FimaPan® IGN EZ		•		•	
SuperPan®	SuperPan® IGN EZ	•	•		•	
Fibreboard	FibraPan® IGN EZ / FibraPan® IGN	•		•	•	•
	Mediland M1 EZ	•		•	•	•
	FibraPan® IGN NAF	•		•	•	•
	FibraPan® H IGN EZ	•		•	•	•
Decorative Panels	FibraColour® Negro IGN EZ	•	•	•	•	•
	Compac IGN EZ	•		•	•	•
Textured Panels	FibraPan® IGN EZ Tex	•	•			
With decorative paper						
Chipboard	FimaPan® IGN EZ Decor	•	•			
SuperPan®	SuperPan® IGN EZ Decor	•	•			
Fibreboard	FibraPan® IGN EZ Decor	•		•		•
	FibraPan® H IGN EZ Decor	•		•		•
Decorative Panels	FibraColour® Negro IGN EZ Decor	•	•	•		•
	CompacDecor IGN EZ	•				•
With natural decorative surface						
Chipboard	FimaPan® IGN EZ Natur	•	•			
Fibreboard	FibraPan® IGN EZ Natur	•	•	•		•
Decorative Panels	FibraColour® Negro IGN EZ Natur	•	•	•		•

Habitat 360



Habitat 360

Habitat 360 is Finsa's comprehensive approach to design — a way of creating spaces where aesthetics, functionality, and sustainability coexist in perfect balance. This vision brings together materials, textures, and technical solutions that respond to the needs of contemporary interior design while maintaining a commitment to environmental responsibility and safety.

Finsa Design

Within the Habitat 360 framework, Finsa Design offers a curated selection of decorative solutions that combine creativity with performance. The Duo, Natur, and Tex ranges exemplify this approach — from refined combinations of colours and textures, to the warmth of natural veneers and the sensory depth of tactile finishes. Each collection contributes to a cohesive design language adaptable to any style or trend.

Fire-retardant materials

Safety is an integral part of Finsa's design philosophy. Many of our decorative and technical panels, including those from the Finsa Design ranges, are available in fire-retardant versions, ensuring both aesthetic continuity and compliance with the most demanding building regulations.

Together, Habitat 360 and Finsa's fire-retardant selection allow you to create spaces that are not only visually inspiring but also built for lasting performance and peace of mind.



SuperPan® IGN EZ Decor

SuperPan® Is Finsa's innovative and exclusive board, which combines the main advantages of MDF and particleboard. This consists of a multi-layered structure made up of a interior of particles with two outer wood fibre faces, bonded with synthetic resins under pressure and heat, while improving the boards' physical and mechanical properties, making them more versatile and suited to multiple applications.



Environmentally friendly. Sustainable and recyclable material E05 / CARB2



High flexural strength and high module of elasticity



A wide variety of coatings and finishings



Better fastening of screws and nails, even along the edges



A perfect cut. Extends the service life of tools



Ideal for lacquering and painting applications.



Better quality edging



Projects

Hotel Ibis Styles Madrid Airport Valdebebas – AGP Hotels

Madrid 2025

SuperPan® Decor Rojo Arcilla Soft III, Verde Oxford Soft III y FimaPan® IGN EZ Decor Verde Arcilla Soft III, Gris Petróleo Soft III, Roble Trigo Atlas

Wardrobes, mirrors, TV cabinets, benches, reception furniture, buffets and shelves

Hospitality



04/





Markel Offices in Torre de Cristal
Idoia Otegui

Madrid
2024

FibraColour® Negro IGN EZ
Decor Roble Mina Boreal,
FibraPan® IGN EZ Decor
Roble Mina Boreal, Roble
Hera Segá. FibraPan®
Decor Gris Coco Boreal,
SuperPan® Plus Verde
Glencoe Technical Matt
y Cashmere Technical
Matt y FibraPan® Blanco
LBE Editable

Screens, reception
paneling, cabinet
fronts, furniture,
Kitchen fronts, meeting
tables, editable paneling
(whiteboards).

Workplace



Restaurant 19.86 by Rubén Aranz Stone Designs

Madrid 2021

FibraPan® IGN EZ Decor Castaño Rialto Atlas

Furniture, counter, divider and decorative elements

Retail



C.C. Vialia Málaga Broadway Malyan

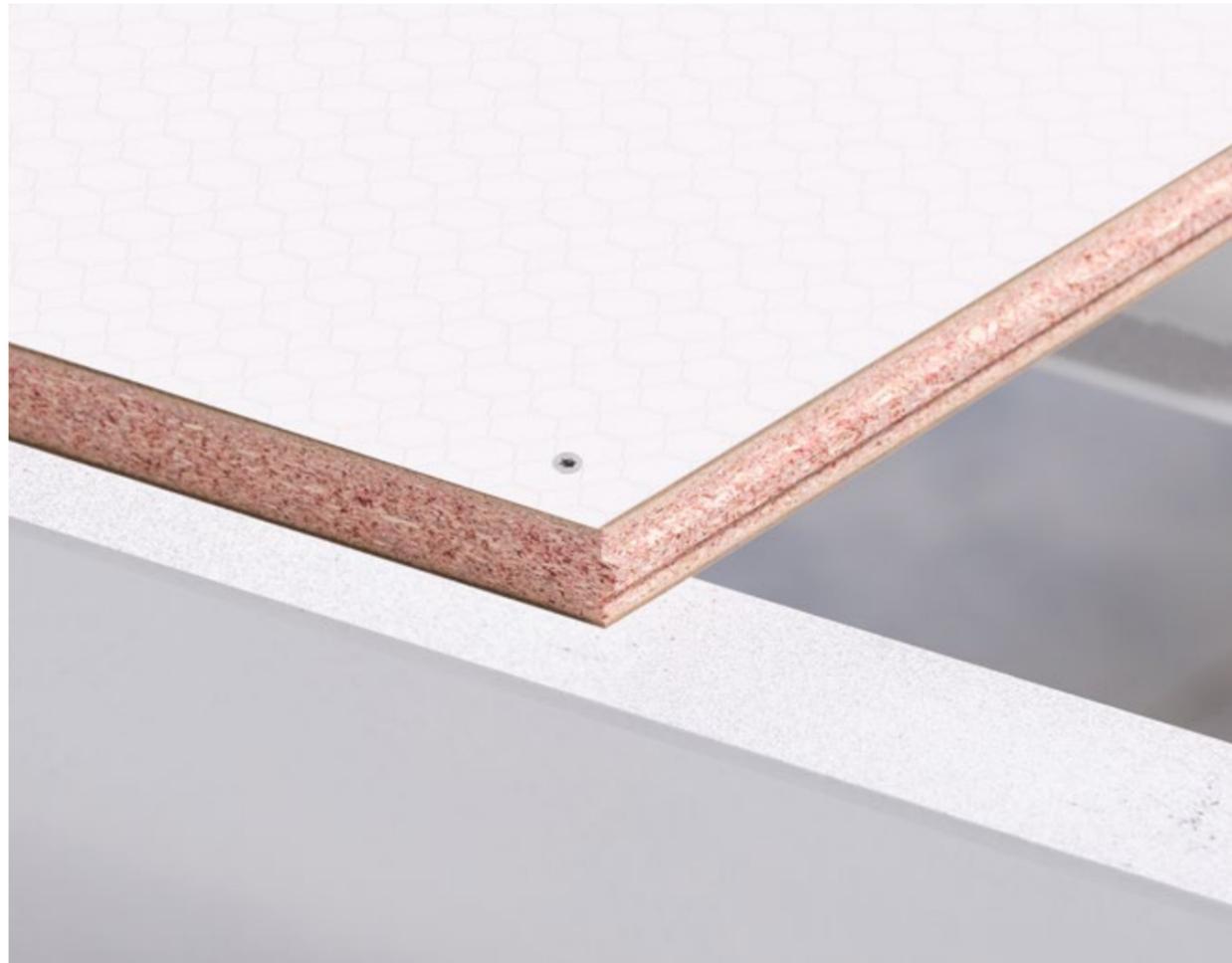
Málaga 2017

FibraPan® IGN EZ Decor Roble Denver Atlas

Roof slats and column cladding

Retail





Industrial mezzanine in a fruit and horticultural company warehouse
 Instalaciones Mecánicas
 Emilio Gea

El Ejido (Almería)
 2019

SuperPan® Tech P4 IGN EZ
 Decor with anti-slip surface

Industrial mezzanine

Industrial



Axel Hotel Bilbao
 Axel Hotels

Bilbao
 2024

FibraPan® Decor Roble
 Denver Atlas y FibraPan®
 IGN EZ Tex Flute

Wardrobes, hall paneling,
 hallway and room doors,
 bedside tables, reception
 desk and headboards

Hospitality



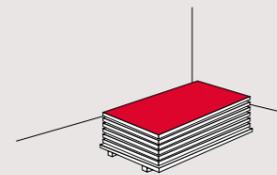
Technical Information

Fire retardant boards

Storage is especially critical, and so it is very important to keep the original packaging or one that is very similar, to avoid moist environments, so that all physical and mechanical properties can be preserved.

General recommendations

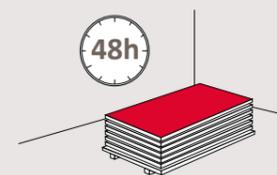
Storage



It should be stored in closed, ventilated, dry storage rooms, protected from sun, rain, frost and chemical splashes, in compact stacks. Packages shall be placed on a flat, level surface, and 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.

Conditioning



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 installation, it is recommended to let them get adapted to the environment for at least 2 days before use. In case of on-site use (coatings, etc.) the boards must be stabilised at the installation site, in order to achieve balance and minimise dimensional variations once installed.

05/

Handling and cleaning recommendations for decorative paper faced boards

Handling

The product shall be handled with the proper care, while avoiding hard abrasions between the faces that can produce damage to the decorative surface.

Cleaning

The product may be cleaned with a damp cloth and a neutral 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.

Technical sheets

Visit our website and consult the technical sheets of our products.



Finsa

finsa.com



V1 - 2025