COMPOSITE PANELS WITH NATURAL WOOD VENEER

Prodema®

Made to last wooden Products

Prod EX
exteriors by Prodema®

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Some **skins** do withstand the test of time

Cl nica Pombaldial
Arch. Filipe Sousa
(Portugal)

Aragano
Arch. Sebastián del Río
(Chile)

Lootsi House
Arch. Hanno Grossschmidt
HG Architecture
(Estonia)

Prodex
exteriors by Prodema®

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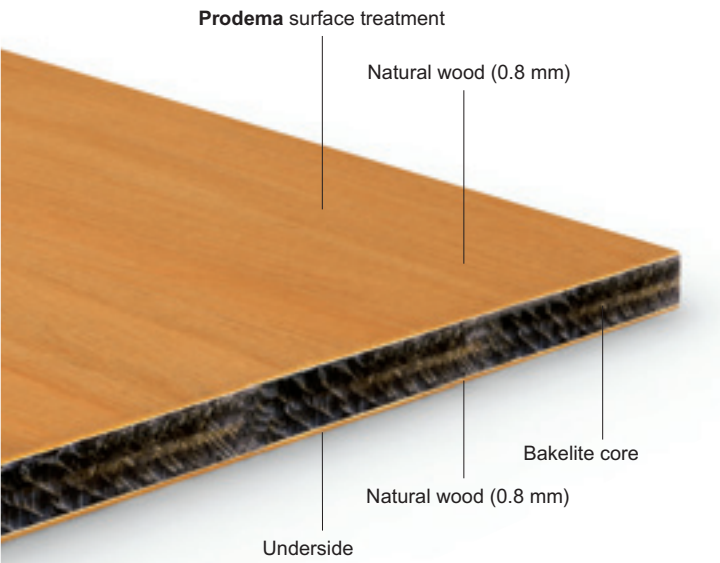
Composition of **ProdEX** panels

ProdEX is a composite panel faced with a natural wood veneer and coated with a proprietary coating, based on synthetic resins and PVDF, which protect the panel from the effects of sunlight, chemical attack (anti-graffiti) and the damage caused by atmospheric agents.



Attractive aesthetic qualities due to the nature of the product – natural wood.

Resistance to weathering. In the artificial aging tests, **ProdEX** obtains a colour stability of ≥ 3 after 6000 hours of exposure to xenon radiation, compared with the 3000 hours required by the EN 438-2: 2005 standard, section 29 (except **ProdEX** Pale colour, which obtains a result of 3000 hours).

ProdEX **Reaction to fire**

Fire-proof material	
Thickness ≥ 10 mm.	Clas.: B-s1, d0 (according EN 13.501-1)
Thickness 8-9 mm.	Clas.: B-s2, d0 (according EN 13.501-1)
Thickness 6 mm.	Clas.: C-s2, d0 (according EN 13.501-1)
NON-fire-proof material	
Thickness ≥ 8 mm.	Clas.: C-s1, d0 (according EN 13.501-1)
Thickness 3-6 mm.	Clas.: D-s2, d0 (according EN 13.501-1)

Dimensions

Length x Width

2.440 mm. x 1.220 mm. (tolerance approx ± 2 mm.)

Thicknesses

3, 6, 8, 10, 12, 14, 16, 18, 20, 22 mm. (tolerance approx ± 0,3 mm. a ± 0,8 mm. depending on thickness)

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Colours

Each **Prodema**, S.A. panel is faced with a natural wood venner, are each unique and will exhibit differences in grain* and colour* within the same supply. **Prodema** carefully selects the wood veneers in an endeavour to ensure that the color within a batch will be as homogeneous as possible.

Cream

Light Brown

* As wood is a natural and dynamic product, the shade and grain may vary from digital and product samples.

Pale

Dark Brown

Ice Grey

Rustik

Deep Brown

Mocca

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Rathaus (Cityhall)
Bad Doberan
Arch.Hass+Briese
(Alemania)

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Technical characteristics

TESTS	VALUE
Dimensional	
Longitudinal dimensional stability	0,30
Transversal dimensional stability	0,60
Edge straightness	1,5
Squareness	1,5
Physical	
Impact resistance	≥1.800
Density	≥1,35
Moisture resistance	≤5
	≥4
Tensile strength	>60
Resistance to fastenings	>2.000
Thermal conductivity	0,263
Mechanical	
Flexural strength	>80
	>80
Modulus of Flexural Elasticity	>9.000
	>9.000
Fire	
Reaction to fire (ProdEX)	D-s2, d0
	C-s1, d0
Reaction to fire (ProdEX IGN)	C-s2, d0
	B-s2, d0
	B-s1, d0
Resistance to weathering	
Resistance to UV light	≥3
	≥4
Resistance to artificial weather conditions	≥3
	≥4
Resistance to climate shock	≥4
Water vapour permeability	110
	250
Anti-Graffiti resistance	
	Level 4
	Level 4
	Level 1
	Level 2

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	PROPERTY	UNIT OF MEASUREMENT	STANDARD
	Accumulated dimensional variation	% max.	EN 438-2 Section 17
	(thickness ≥ 6mm.)	% max.	EN 438-2 Section 17
	...	mm/m	EN 438-2 Section 7
	...	mm/m	EN 438-2 Section 8
	...	mm	EN 438-2 Section 21
	Density	g/cm3	EN ISO 1,183
	Increase in mass	%	EN 438-2 Section 15
	Appearance	Degree	EN 438-2 Section 15
	Longitudinal and transversal direction load	MPa	EN ISO 527-2
	Strength	N	EN 438-7 Section 4.5
	Thermal conductivity coefficient	W/mK	EN 12.663
	Long. direction load	MPa	EN ISO 178
	Transv. direction load	MPa	EN ISO 178
	Long. direction load	MPa	EN ISO 178
	Transv. direction load	MPa	EN ISO 178
	Thickness 6 mm.	Classification	EN 13.501-1
	Thickness 8 mm.	Classification	EN 13.501-1
	Thickness 3 mm.	Classification	EN 13.501-1
	Thickness 8 mm.	Classification	EN 13.501-1
	Thickness 10 mm.	Classification	EN 13.501-1
	Contrast	Grey scale classif.	EN 438-2 Section 28
	Appearance	Degree	Assessment EN 20105-A02
	Contrast	Grey scale classif.	EN 438-2 Section 29
	Appearance	Degree	Assessment EN 20105-A02
	Appearance	Degree	EN 438-2 Section 19
	Wet plate method	μ	EN 438-7 Section 4.4
	Dry plate method	μ	EN 438-7 Section 4.4
	Permanent blue marker	Cleaning level	ASTM D 6578:2000
	Red spray	Cleaning level	ASTM D 6578:2000
	Black wax	Cleaning level	ASTM D 6578:2000
	Black marker	Cleaning level	ASTM D 6578:2000

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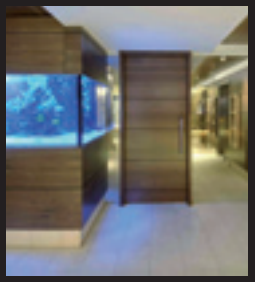
NEW RANGE
Prod IN interiors by Prodema®
NEW TEXTURES AND COLOURS

Because beauty is also on the inside.

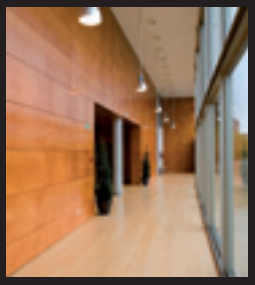
Neptuno

Interior coverings for humid environments.



Proligna

Interior wood wall panels for dry environments.



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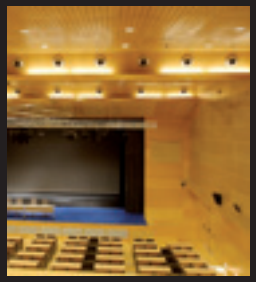
Supra

Engineered wood flooring designed for high-traffic commercial spaces.

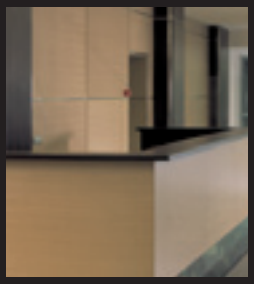
Auditorium

Acoustical wooden panels, for wallsand ceilings.



Laminium

Natural wood laminates.



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Humidity is not a problem.

Humidity is not a problem, with its Bakelite core panels that have been specially designed for humid environments.

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Composition of **Neptuno** panels

Neptuno panels are made up of a cellulose fibre core that has been impregnated with thermosetting phenolic resin, and its natural wooden surface is specially treated to comply with the strictest requirements of humid environments.

Dimensions

Length x Width
2.440 mm. x 1.220 mm. (tolerance approx ± 2 mm.)
Thicknesses
3, 6, 8, 10, 12, 14, 16, 18, 20 mm.
Other dimensions: please check

Neptuno Reaction to fire

Fire-proof material	
Thickness ≥ 6 mm.	Clas.: B-s2, d0 (according to EN 13.501-1)
NON-Fire-proof material	
Thickness ≥ 6 mm.	Clas.: C-s2, d0 (according to EN 13.501-1)

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Proligna

Products with a heart

The widest variety of colours and finishes in interior coverings for dry environments.

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Composition of **Proligna** panels

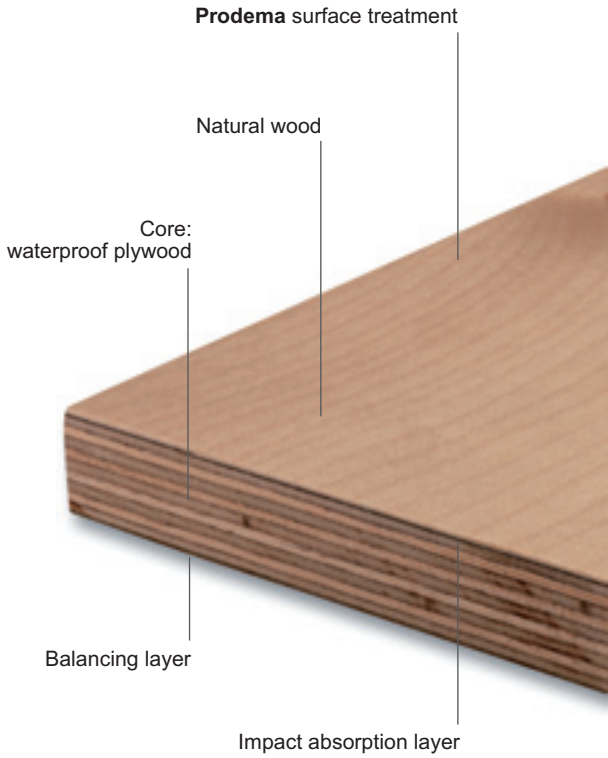
Proligna panels have a plywood core that has been impregnated with thermosetting phenolic resins, and the natural wood surface is protected by a proprietary abuse-resistent film or coat.

Dimensions

Length x Width
2.440 mm. x 1.220 mm. (tolerance approx. ± 2 mm.)
Thicknesses
8, 11, 14, 17, 20, 22 mm.
Other dimensions: please check

Proligna Reaction to fire

Fire-proof material	
Thickness ≥ 14 mm.	Clas.: B-s2, d0 (according to EN 13.501-1)
Thickness < 14 mm.	Clas.: D-s3, d0 (according to EN 13.501-1)
NON-Fire-proof material	
Thickness ≥ 8 mm.	Clas.: D-s3, d0 (according to EN 13.501-1)



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Supra

The super solution for commercial surfaces

The super wooden flooring solution that is specially designed for commercial surfaces or those subjected to high-traffic.

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Composition of **Supra** panels

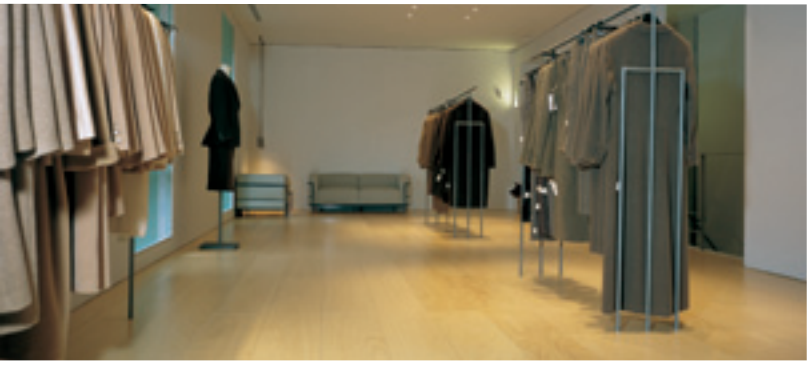
Supra panels are composed of a plywood core impregnated with thermosetting phenolic resins, and a natural wood face protected by a proprietary coat, rendering **Supra** previously unimaginable performance characteristics.

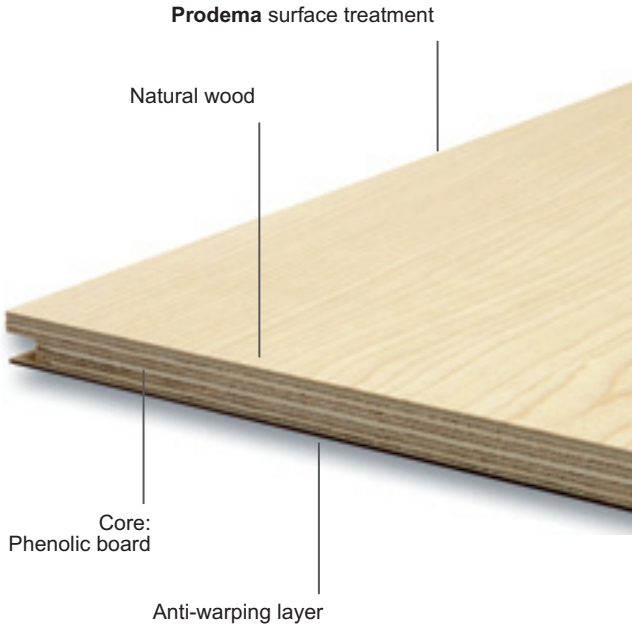
Dimensions

Length
1.200, 2.450 mm. (tolerance approx ± 2 mm.)
Width
188, 290, 390, 590 mm. (tolerance approx ± 2 mm.)
Thicknesses
11 mm. (standard), 14 mm. (to order)
Other dimensions: please check

Supra Reaction to fire

Thickness ≥ 11 mm.	Clas.: Bfl-s1 (according to EN 13.501-1)





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Auditorium

Listen to the silence

The solution that combines the beauty of natural wood with an excellent level of acoustic absorption, thanks to its perforated composition.

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Composition of **Auditorium** panels

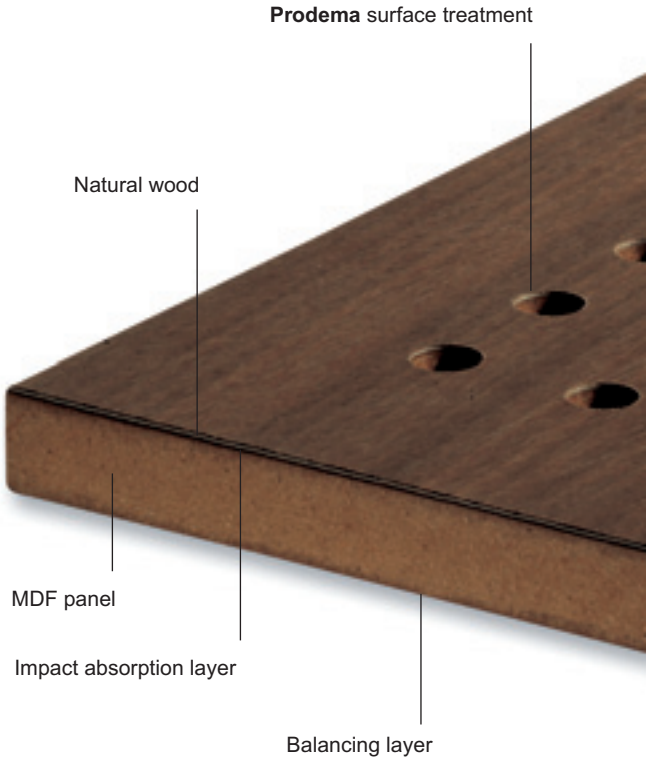
Auditorium panels are composed of a wood and resin isotropic mass, and a natural wood face protected by an abuse-resistent proprietary coat. Different types of perforations are offered depending on the level of sound absorption required.

Dimensions

Length
1.200, 2.450 mm. (tolerance approx ± 2 mm.)
Width
600, 1.220 mm. (tolerance approx ± 2 mm.)
Thicknesses
12, 18 mm.
Other dimensions: please check

Auditorium Reaction to fire

Fire-proof material	
Thickness ≥ 12 mm.	Clas.: C-s2, d0 (according to EN 13.501-1)
NON-Fire-proof material	
Thickness ≥ 12 mm.	Clas.: D-s2, d0 (according to EN 13.501-1)



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Laminium

The best solution

This range offers high-performance laminates in natural wood that are extremely flexible and have been specially designed to cover raised technical floors, doors, columns, tabletops, etc.

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Composition of **Laminium** panels

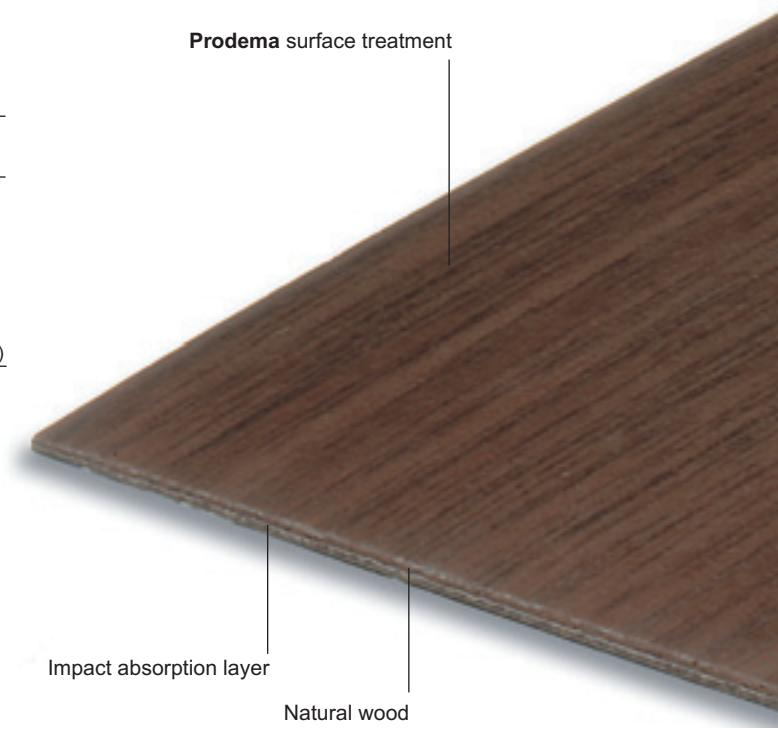
The **Laminium** range offers high pressure laminates covered in natural wood that are extremely flexible and which have been specially designed to cover raised technical floors, doors, columns, tabletops, etc.

Dimensions

Length x Length
2.440 mm. x 1.220 mm. (tolerance approx. ± 2 mm.)
Thicknesses
1 mm. (tolerance ± 0,15 mm.)
Other dimensions: please check

Laminium Reaction to fire

Thickness ≥ 1 mm.	Clas.: C-s2, d0 (according to EN 13.501-1)



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Colours

The **Prodema** panels are finished in natural wood so the color tone and grain of the samples only serve as guide. Likewise, the surface composition of **Prodema** panels will vary according to the type of panel, and consecuently exhibit differences in color tone amongst the different types of panels.

Natural Woods

* The variation of tone and grain between slats is particularly noticeable in the cases of eucalyptus and teak, so we recommend you check with the manufacturer.

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Stained Woods*

26051

* Any colour is possible.

Exclusive Woods

Natural a

Natur

Light brown

Dark brown

Deep brown

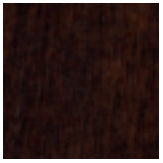
Only *Neptuno* Collection

Pale

Rustik

Ice Grey

Cream



Mocca

Lineal Wood

Limus

White quercus

Quercus

Would you like a sample of any of our products?

Simply send an e-mail to: prodema@prodema.com and we will have a sample sent to you.

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w w w . p r o d e m a . c o m

Prodema®
Made to last wooden Products

(Prod EX exteriors by Prodema® :: Prod IN interiors by Prodema®)

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