

COMPOSITE PANELS WITH NATURAL WOOD VENEER

Prodema®

Made to last wooden Products

Prod **E** **X**

exteriors by Prodema®



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exteriors by Prodema®

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Some **skins** do

withstand the test of time

Clínica Pombaldial
Arch. Filipe Sousa
(Portugal)

Aragano

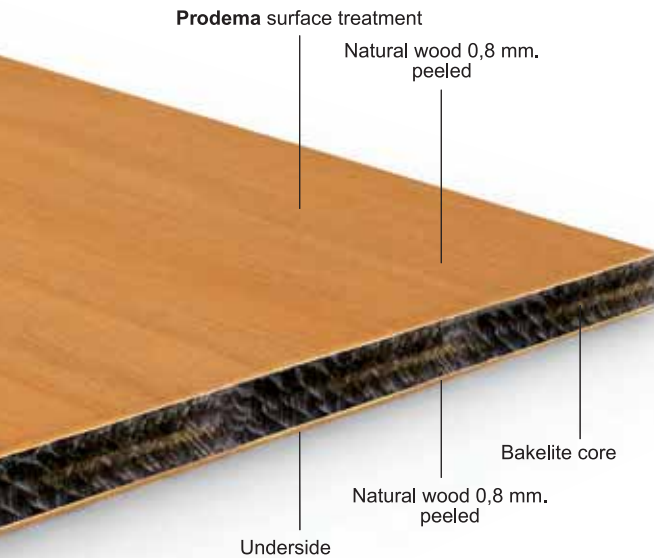
Arch. Sebastián del Río
(Chile)

Lootsi House

Arch. Hanno Grossschmidt
HG Architecture
(Estonia)

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 ≥ 6 mm. | Clas.: B-s2, d0 (according EN 13.501-1) |
|------------------------|---|

| | |
|------------------------|---|
| Thickness ≥ 3 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 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 $\pm 0,3$ mm. a $\pm 0,8$ mm. depending on thickness)

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Colours

Each **Prodema**, S.A. panel is faced with a natural wood veneer, 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



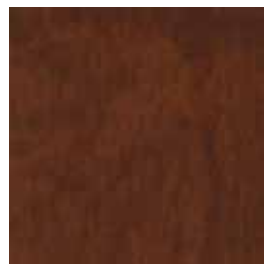
Dark Brown



Ice Grey



Rustik



Deep Brown



Mocca



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 | ≤8 |
| | ≥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 |

Resistance to weathering

| | |
|---|-----|
| Resistance to UV light | ≥3 |
| | ≥4 |
| | ≥3 |
| Resistance to artificial weather conditions | ≥4 |
| | ≥4 |
| Resistance to climate shock | 110 |
| Water vapour permeability | 250 |

Anti-Graffiti resistance

| |
|---------|
| Level 4 |
| Level 4 |
| Level 1 |
| Level 2 |

| PROPERTY | UNIT OF MEASUREMENT | STANDARD |
|---|---------------------|-------------------------|
| Accumulated dimensional variation (thickness ≥ 6mm.) | % max. | EN 438-2 Section 17 |
| ... | % 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/cm ³ | 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 ≥ 3 mm. | Classification | EN 13.501-1 |
| Thickness ≥ 8 mm. | Classification | EN 13.501-1 |
| Thickness ≥ 3 mm. | Classification | EN 13.501-1 |
| Thickness ≥ 6 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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Prod **IN**
interiors by Prodema®



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 walls and ceilings.



Laminium

Natural wood laminates.





Neptuno

H u m i d i t y i s n o t a p r o b l e m

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

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)



A woman with dark hair is lying on her stomach on a light-colored wooden surface. She is resting her chin on her hands and looking towards the camera with a slight smile. In the foreground, there are several lit candles, creating a warm and cozy atmosphere. The background is softly blurred, showing a white fabric.

Prodigna

Products with a heart

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

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-resistant 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

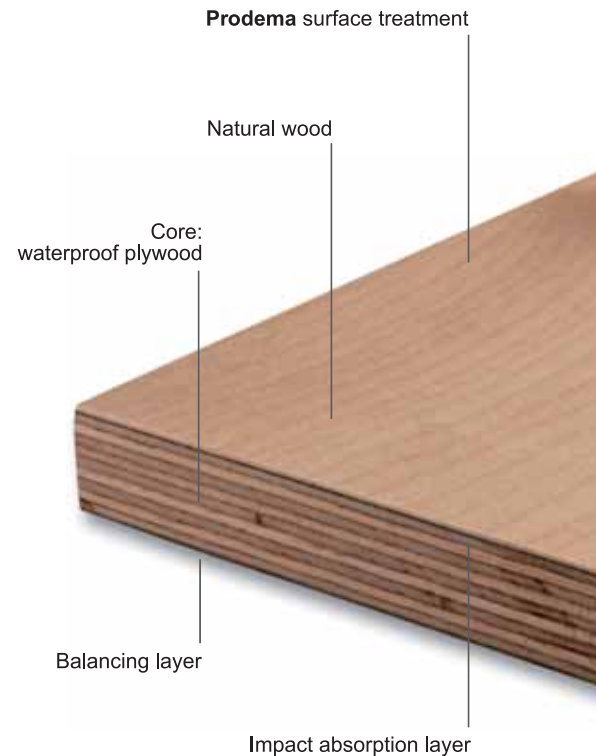
Fire-proof material

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)





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.

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.)

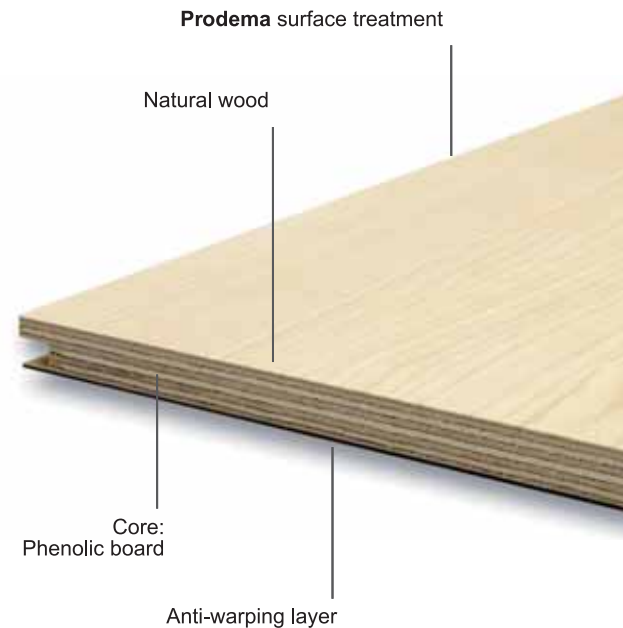
Thicknesses

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)





Auditorium

L i s t e n t o t h e s i l e n c e

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

Composition of Auditorium panels

Auditorium panels are composed of a wood and resin isotropic mass, and a natural wood face protected by an abuse-resistant 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

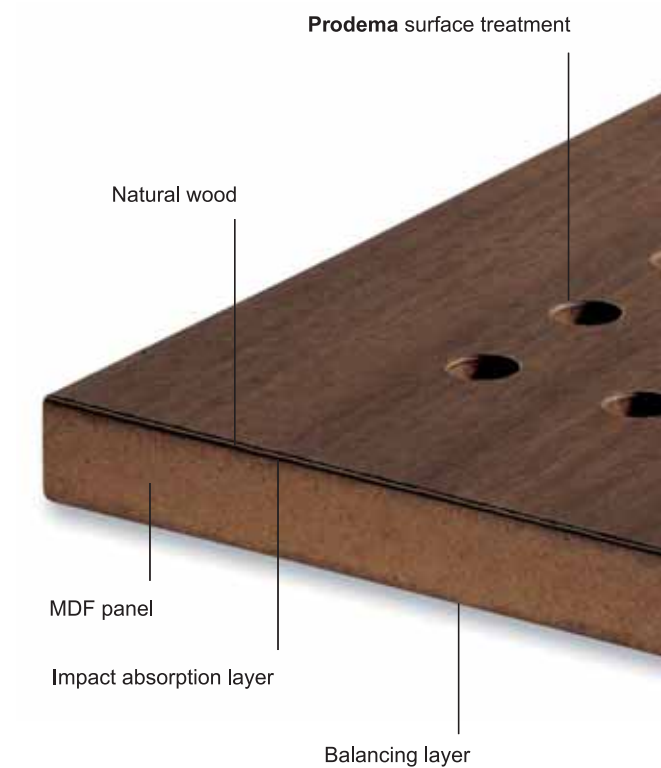
Auditorium Reaction to fire

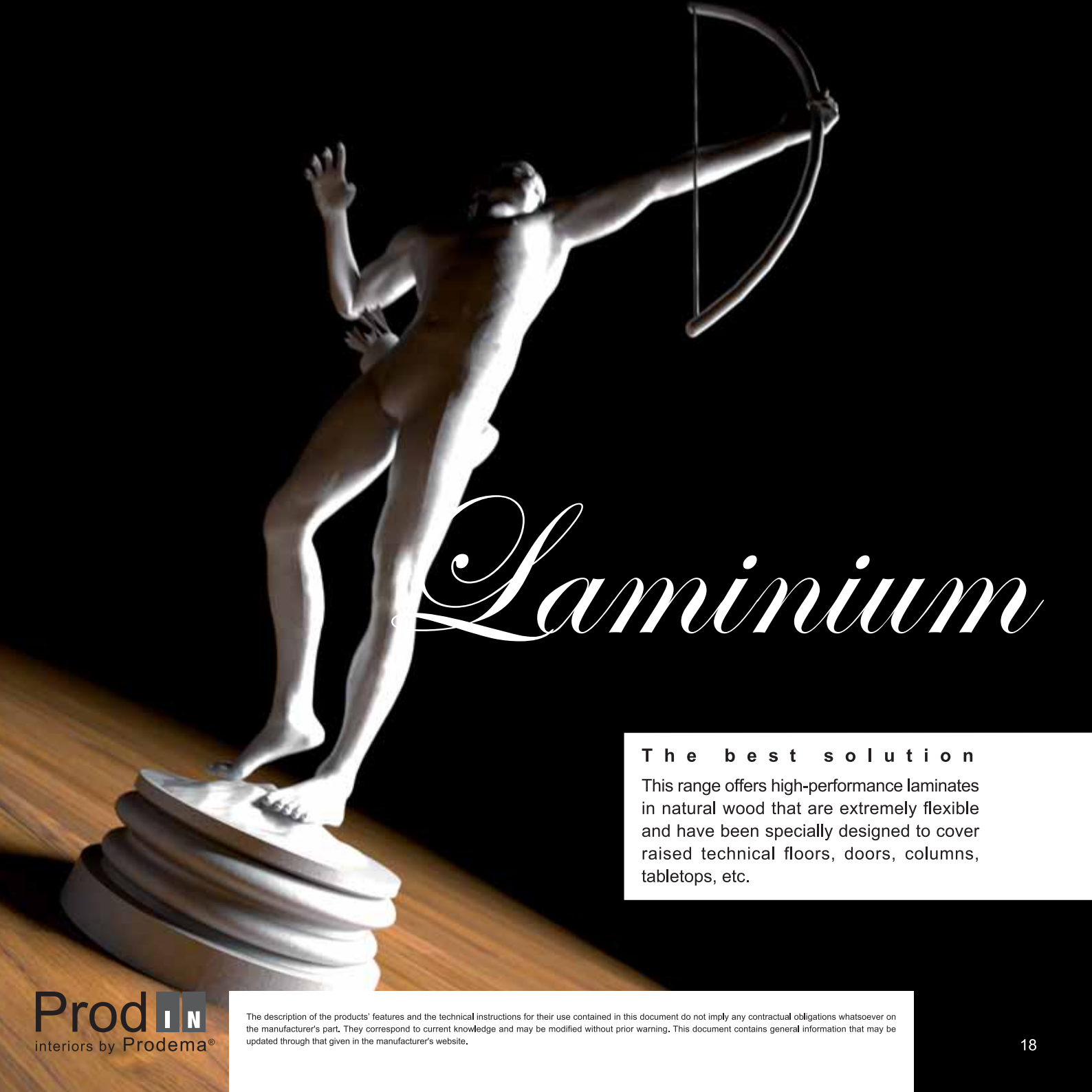
Fire-proof material

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)]





Laminium

T h e b e s t s o l u t i o n

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.

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 $\pm 0,15$ 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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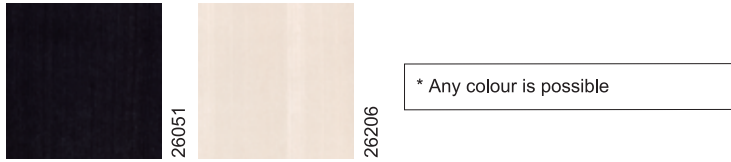
Colours

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 consequently exhibit differences in color tone amongst the different types of panels.

Natural Woods - sliced cut



Stained Woods* - sliced cut



Exclusive Woods - peeled



Lineal Wood - sliced cut



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Prodema®
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