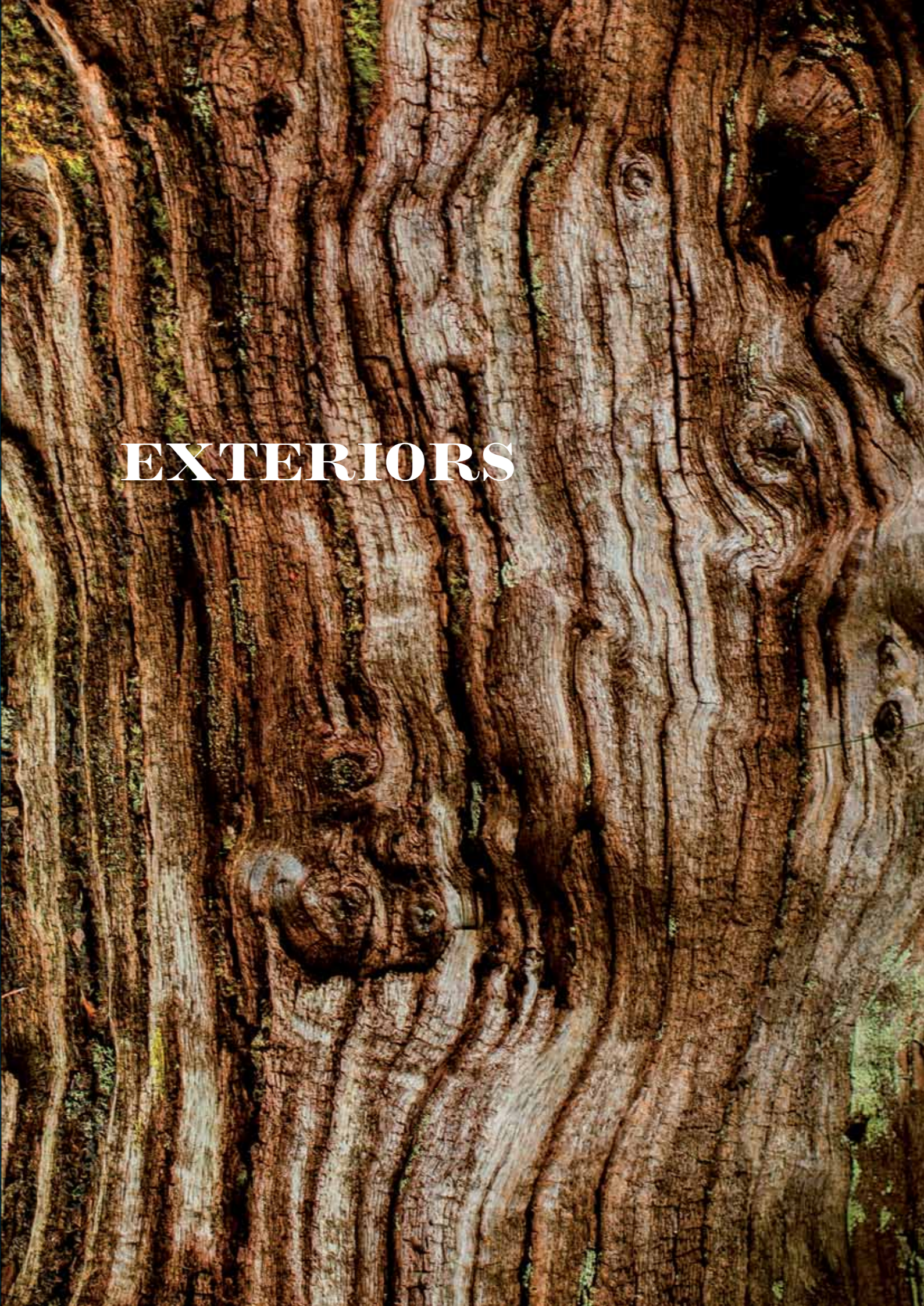


ProdEX
exteriors by Prodema

**NATURAL
WOOD
EXTERIORS**


Prodema
NATURAL WOOD BEAUTY



EXTERIORS



● ProdeMa Dealers / Representatives



NATURAL WOOD THAT BRINGS YOUR PROJECTS TO LIFE

Wood that covers your buildings with beauty, elegance and style.

But also durability, quality and innovation.

At **Prodema** we have a profound respect for nature and health.

We have developed a unique natural wood product for façade cladding.

Wood that will fill your projects with life.



WE PRODUCE QUALITY IN NATURAL WOOD

At **Prodema** we specialize in creating natural wood products of the highest quality for the world of architecture and interior decoration. Following years of research and development, we are proud to offer a unique, innovative, high-tech product with no need for the regular maintenance usually required by wood exteriors.

We've incorporated an outer film of PVDF to give our natural wood the best protection from external sources, so **ProdEX** panels have no need for regular maintenance. This PVDF film is also anti-graffiti and non-stick, preventing organic matter from developing on the panel's surface and reducing the build-up of dust and dirt caused by pollution.



BUILDINGS DRESSED IN ELEGANCE

Our main objective is to provide the architecture world with exclusive materials that help architects design beautiful, warm, comfortable spaces: rooms that improve the quality of life of all that use them.

We create façades with a unique style that blends in perfectly with natural and urban surroundings alike.

Efficient buildings dressed in the elegance of natural wood.



ProdEX IN VENTILATED FAÇADES: THE PERFECT SKIN

A covering of natural wood with an authentic quality visible in every grain. Designed to give an exclusive beauty, while offering excellent protection, energy efficiency and comfort.

Because **ProdEX** makes an excellent cladding for ventilated façades that offers protection from rain, sunlight and external temperature changes. **ProdEX** prevents water from penetrating a building's interior walls or insulation, leaving them free from damp at all times thanks to the air circulating behind the panels.

Buildings created in this way, with perfect thermal insulation all year round, offer increased comfort by reducing indoor temperature variations. This also translates into energy savings.

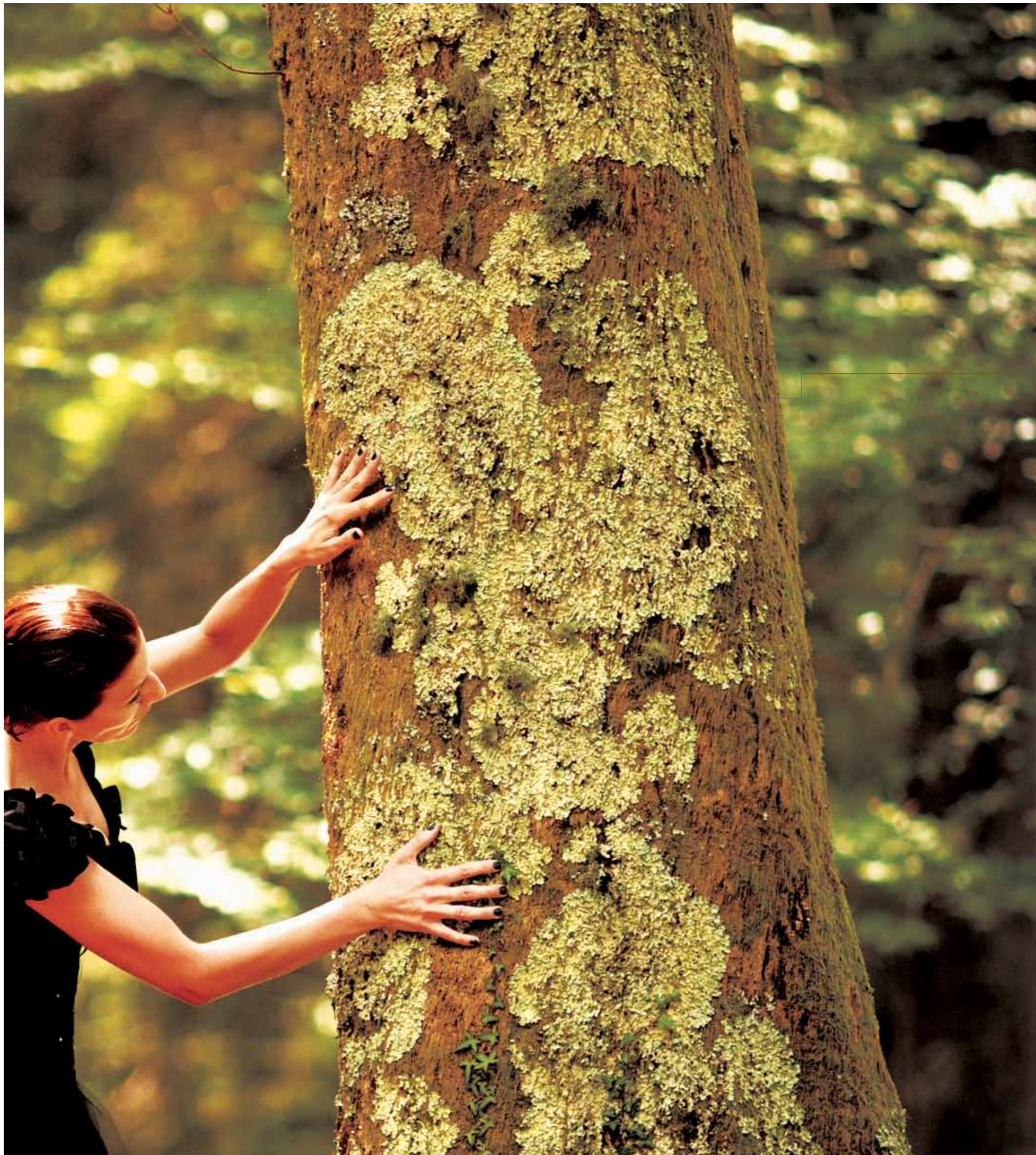
Added to all of this, its quality, versatility, ease of installation and minimum maintenance means that **ProdEX** creates the perfect covering for ventilated façades, filling your buildings with life.





UNBOUNDED CREATIVITY

Creativity in the design of innovative buildings full of personality. The **beauty** of warm, elegant materials providing maximum comfort. The **versatility** of an installation system and materials that fuel the imagination in the design of unique façades. The **quality** of a resistant product that offers 100% respect for the environment. This is what **ProdEX** natural wood panels have to offer. Because at **Prodema** we work hard to be a source of inspiration for the creative work of architects.



COMMITTED TO NATURE

At **Prodema** we believe that design, innovation and quality are vital. But even more important to us is our respect for **Nature**: the source of both our materials and our inspiration. At Prodema we work to promote sustainable construction, maximizing wellbeing and environmental efficiency in building projects.

We have also become the world leader in our category, achieving **ISO 14006 certification in ECDesign**.

Using **Prodema** also provides **points in green building certification schemes** such as **LEED** (Leadership in Energy and Environmental Design) or **BREEAM** (Building Research Establishment Environmental Assessment Methodology).

And **Prodema** boasts **PEFC** certification, guaranteeing that our products have been manufactured with raw forest materials managed in a socially and environmentally responsible way.

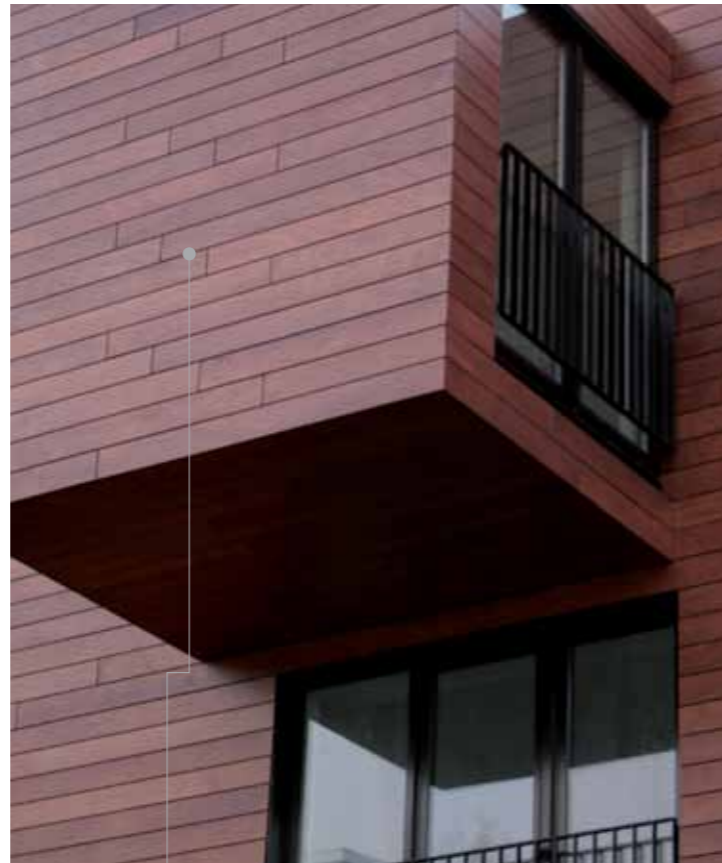
1 ProdEX MATERIALS

1.1 CHARACTERISTICS OF NATURAL WOOD

ProdEX panels are veneered with 100% natural wood. Each piece is unique, each grain is special: no two panels are identical. This natural, authentic quality shines through in the way light reflects off the wood's fibers. And our wood does not need the maintenance required by other exterior wood products



VARIATIONS IN COLOR, TONE, AND SHINE ON DIFFERENT PANELS EMPLOYING THE SAME WOOD TYPE



TRANSVERSAL MIRROR IMAGES IN THE WOOD



DARKER AREAS INHERENT TO THE WOOD ITSELF



KNOTS AND HOLES LEFT BY THE TREE'S BRANCHES

NATURAL QUALITY of the WOOD

A panel can look like it is made of totally different materials depending on the quality of natural light falling on it.



1.2 PANEL COMPOSITION

ProdEX panels have a bakelite core clad in a veneer of natural wood and a special treatment that ensures its resistance.

We have developed an exterior PVDF film with non-stick qualities in order to achieve a maximum level of care for the wood, ensuring panels are protected from damp, rain, sunlight, and even the build-up of dirt on the panels' surface.



1.3 MAIN CHARACTERISTICS

The different layers of materials give the panel its unique qualities:

AESTHETICS

• **ProdEX** panels give the architecture world the option of creating living, natural façades offering a full range of tones and creative options.

RESISTANCE AND DURABILITY

• **ProdEX** panels are the perfect material for cladding façades. Thanks to its mechanical qualities, the panels' bakelite core makes it possible to adjust the panel thickness and corresponding mechanical qualities to suit the needs of all projects.

ProdEX panels are extremely hard, rendering them perfectly resistant to continuous exposure to sunlight and sharp changes in temperature and humidity.

They also offer a high level of durability against termite attacks and maximum resistance to vandalism.

ProdEX panels also offer **excellent dimensional stability**.

CLEANING

• The PVDF surface prevents dust and all kinds of dirt from sticking to the panel surface, ensuring ease of maintenance and cleaning.

ANTI-GRAFFITI

• The outer chemical non-stick layer impregnated into **ProdEX** panels prevents aerosol paint from sticking permanently to the surface.

FIRE RATING

• On request, panels may be supplied with different reactions to fire in line with standard EN 13.501-1:

- ✓ **ProdEX C - s2, d0**
- ✓ **ProdEX IGN B - s2, d0**
- ✓ **ProdEX FIREPROOF B - s1, d0**

• This European standard awards classifications for the reaction to fire of all construction products.

• Classes A1 & A2 are reserved for inert materials such as glass, stone or metal.

• Flammable construction products are categorized from class B to class F, the highest being class B

• Products may also receive an additional classification:

- Smoke production: classified from s1 to s3, with s1 being the highest class.
- Drops/particle in flames: classified s1 to s3, with s1 being the highest class.

Download the latest technical specifications here.

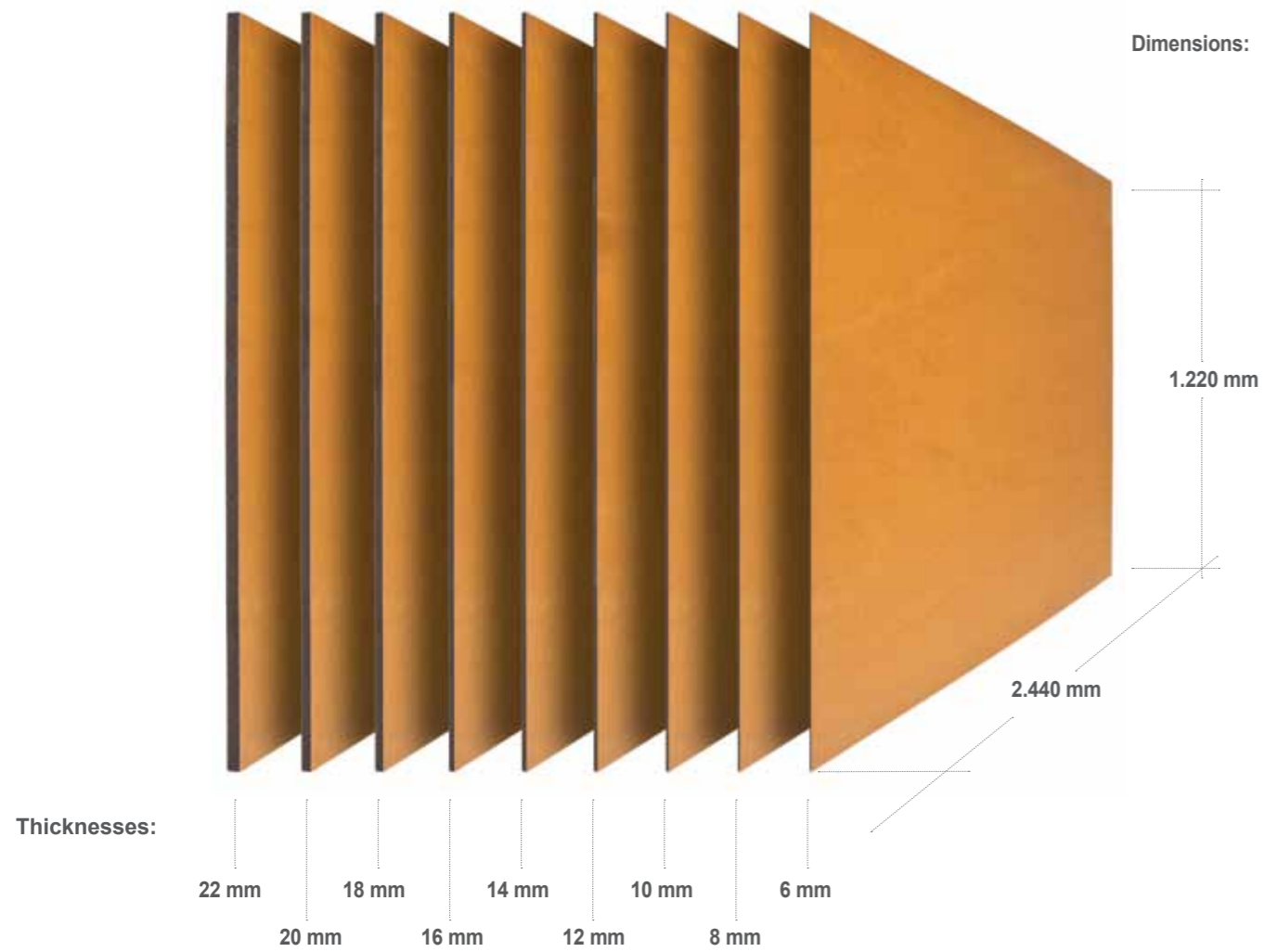


1.4 DIMENSIONS

ProdEX panels are extremely versatile and can be cut into any shape or size to adapt to the needs of all projects. Just follow the cutting instructions set out in the technical catalogue.

Panel dimensions:

Length x width: 2.440 mm x 1.220 mm



1.5 COLORS

Prodema panels are unique pieces of natural wood. No two panels are the same: they all offer subtle variations in tone, in particular when sunlight falls on their fibers, producing different tones in the natural grain.



The angle of the edge of the wood can also cause color variations depending on the pressing or production process employed, among other factors.

ROTARY CUT WOODS

AYOUS VENEER



OKOUME VENEER



A close-up photograph of a building facade featuring dark brown, rectangular metal panels. Three narrow, vertical windows are visible, reflecting the sky and surrounding environment.

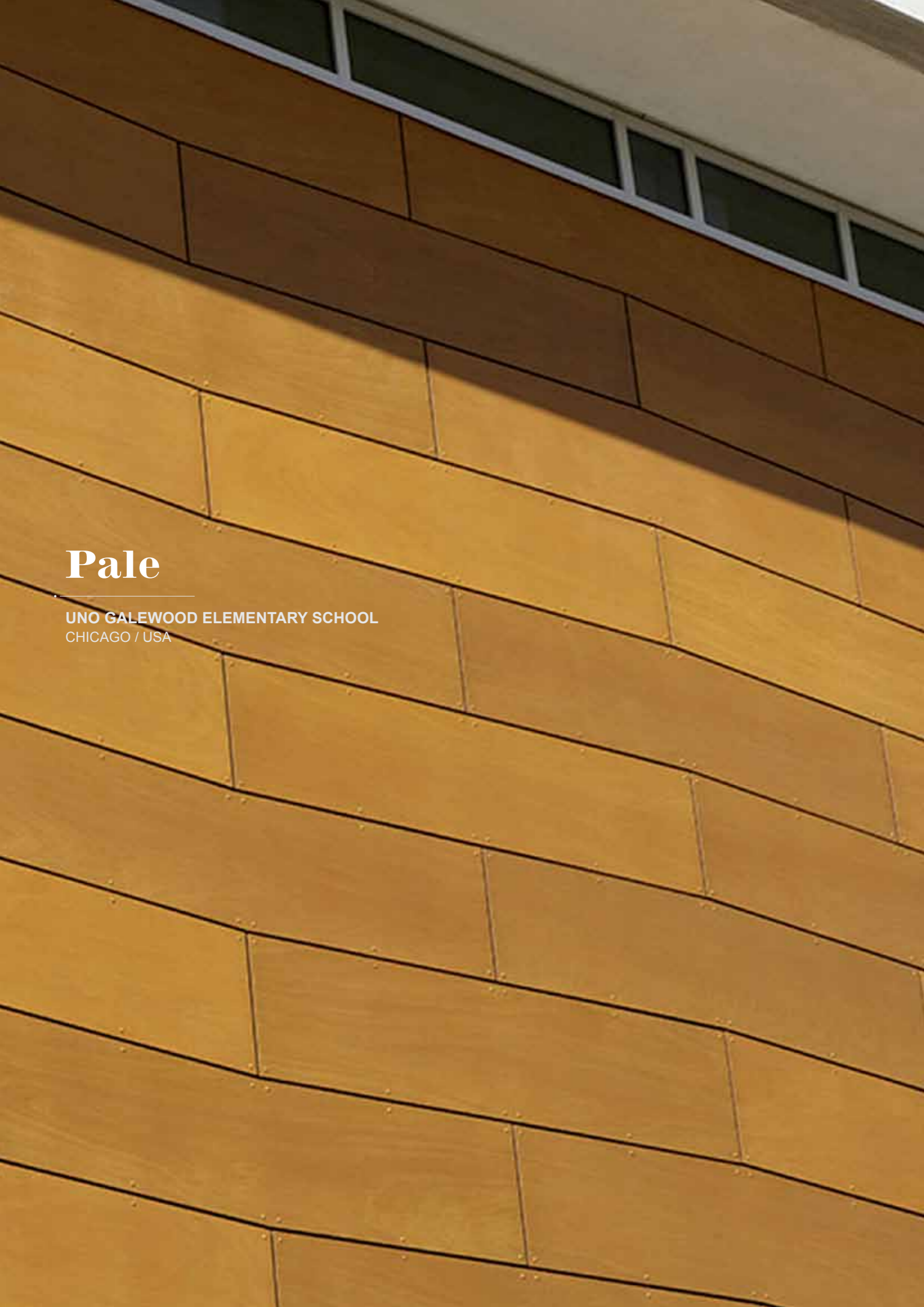
Dark Brown

TIERKLINIK LEIPZIG HOUSE
LEIPZIG / GERMANY

A photograph of a building facade with light brown, rectangular metal panels. A large, curved, cantilevered structure in the same light brown color extends from the building, framing a large glass window. The background shows a grey tiled wall and some greenery at the base.

Light Brown

TITAN PLAZA
BOGOTÁ / COLOMBIA



Pale

UNO GALEWOOD ELEMENTARY SCHOOL
CHICAGO / USA



Cream

WHITEHORSE EMERGENCY RESPONSE CENTRE
WHITEHORSE / CANADA



Ice Grey



Mocca

EL CUBO
BOGOTÁ / COLOMBIA



Deep Brown

PRODEMA HEADQUARTERS
LEGORRETA / SPAIN

Rustik

CASA UNIFAMILIAR
BADAJOZ / SPAIN

DEVELOPMENT OF NEW COLORS

In order to give an exclusive character to the most special projects, **ProdEX** offers panels of genuine natural wood in colors such as Mint and Ice Grey which contribute all the originality and beauty your project requires.

Mint



Ice Grey



MOUNTING SYSTEMS

• **Visible fixings:** This is the most common mounting system employed with **ProdEX** panels: simple, very strong and more economical than other systems. Although the screws and rivets are visible, they are lacquered in the same color as the panels, meaning that they can barely be seen: in fact, they are invisible just a short distance away from the wall. Thus, their impact on the façade is minimal and they do not affect the superior aesthetic qualities of the natural wood.

• **Concealed fixings:** The concealed fixing system, available for both walls and ceilings, allows a solid mounting for panels offering total invisibility of the fixing system. It is particularly suitable for use in areas where it is important to avoid any protrusion above the level of the surface.

WALLS: VISIBLE FIXINGS



WALLS: CONCEALED FIXINGS



SUSPENDED CEILING: CONCEALED FIXINGS



SUSPENDED CEILING: VISIBLE FIXINGS



LOUVERS

Louvers are the perfect complement for ventilated façades since they are designed to cover glass spaces or other surfaces, making it possible to control sunlight and the total energy used by a building.

• BENEFITS

- Protection from sunlight.
- Optimal energy consumption.
- Quality of life.
- Natural aesthetic beauty.
- Guaranteed resistance and durability.
- Ease of installation.
- Cost savings.
- Sustainability and harmony with nature.



CLAPBOARD FAÇADE

This type of installation means you can use **Prodema** for a more country style, taking advantage of all the benefits offered by **ProdEX** natural wood and ventilated façades.



UNIQUE FAÇADES

FACETED CURVE

This system makes it possible to cover curved surfaces with totally flat panels (usually with a width limit of 400-600 mm), using either visible or concealed fixing systems. The restricted width of the panels gives rise to a more "vertical" aesthetic.

HORIZONTAL CURVE AND STRAIGHT PANEL CURVE

This curve system works with a flat **ProdEX** panel which is fitted to the curved façade during the work itself. It requires a solid, robust fixing system that allows for the panel curve, and can therefore only be mounted using visible fixing systems. In the case of a radius of curvature of between 5 and 10 m, it is necessary to reduce the panel thickness to 6 mm. This system cannot be used with a radius of less than 5 m.

PRECURVED

Suitable for use with any radius, this system employs panels precurved in the **Prodema** factory and subsequently finished to suit the walls under construction. Available with visible fixings for panels of dimensions limited to 595 mm width at the point where it is to be curved.

PRECURVED CORNERS

A special use of the precurved solution for an end radius of 50 mm. An ideal aesthetic solution for rounded corners.

FACETED CURVE



HORIZONTAL CURVE



PRECURVED

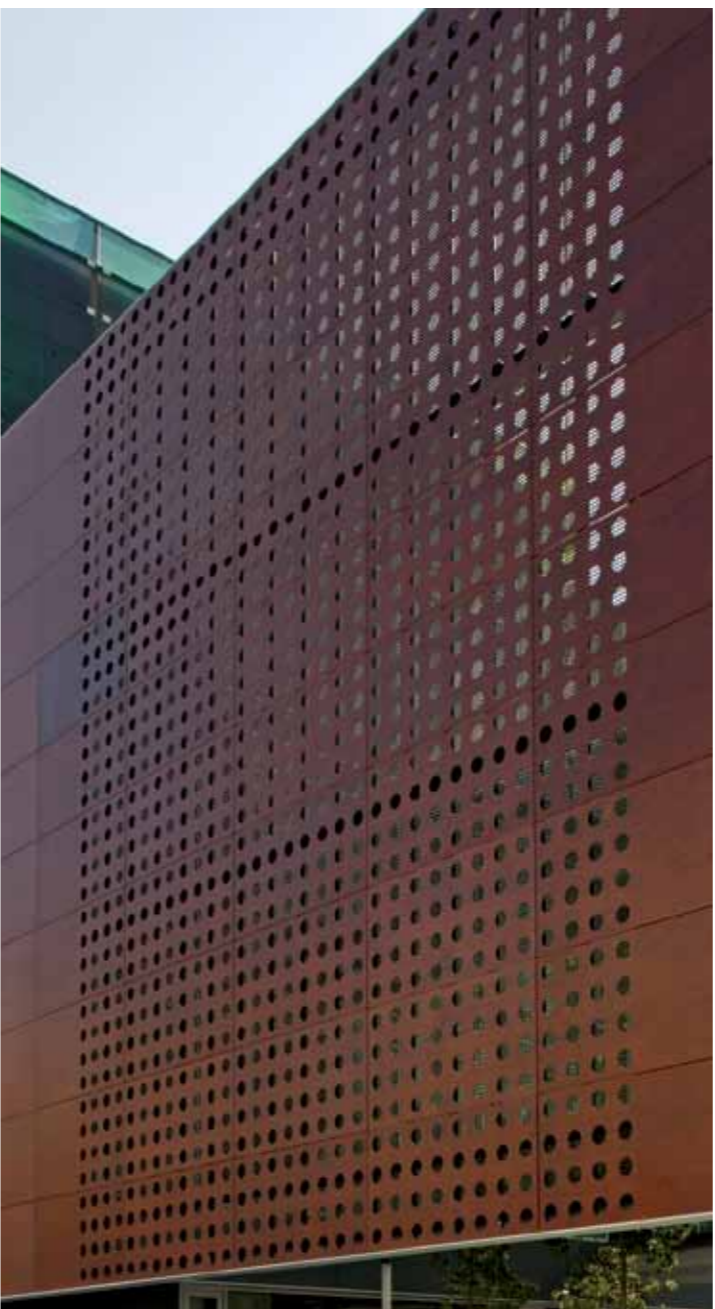


PRECURVED CORNERS





FAÇADES WITH UNIQUE MODULES



LOUVERS FAÇADES





Prodema

NATURAL WOOD BEAUTY
