Exterior 2.3 Essential

Range of Decors / Release April 2023

J | L

For you to create

¬ г Fundermax



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Note: The delivery programme is included with this brochure as an insert.

Fundermax

No matter whether it's furniture, facades, or interior design: where ideas and materials meet, you'll find Fundermax. As a global market leader in the field of compact panels and a manufacturer of high-quality wood-based materials and laminates, the company is proud to look back on a history spanning 130 years. The continued success is based on the highest quality, innovative and varied design, and sustainable production. Made in Austria—with great love for wood as a natural material, creations, and imagination.

- · modern production facilities in Austria and Norway
- · around 1,400 employees
- · annual sales of €430 million
- · part of Constantia Industries AG
- · The Austrian Excellence Award (2018)



1 Sustainability and the Environment

Offering high-quality wood based compact, and HPL panels with various decors, Fundermax positions itself at the very heart of the architecture of a building. We design and manufacture a broad spectrum of products made from natural materials that are easy to work with, in order to provide architects, designers, facade designers, interior designers, and industrial companies with solutions that stand the test of time.

Fundermax has been processing natural materials with precision and love for 130 years. Today, we are manufacturers of high-quality timber composite materials and a global leader in compact laminates for both internal and external applications. Fundermax stands for nothing less than top quality and excellent design.





100% wood and paper



comes from sustainable and certified forestry management.

10,000 t CO₂



saved every year

100% green electricity



generated during production.

This and much more is what makes Fundermax a sustainable company, always looking to the future.

Find out more in our Sustainability Brochure via this **OB** code



2 Exterior 2.3 | Essential Collection

Fundermax Exterior is synonymous with product quality, sustainability, innovation, and design freedom. We developed the overarching new Exterior 2.3 collection in collaboration with international architects and our experienced teams. In order to accommodate your project requirements, we divided it into two subcollections. In the Essential collection, the focus is on maximum choice of decorative finishes and efficiency. In the Pro Surface collection, it's all about design using surface textures and visual effects. For maximum design freedom, there's Fundermax Individual. Create your very own design using Fundermax custom printing or add accents by machining a design directly onto the material surface without the need for further processing. Whatever form your idea takes, the Exterior 2.3 collection from Fundermax opens up a whole world of design possibilities.

For you to create.

Exterior 2.3 Essential

Exterior 2.3 | Essential combines maximum decor choice with maximum size choice.

All of the decors in this collection are supplied in the following five sizes and with the NT surface:

- · 2,800 x 1,300 mm = 3.65 m²
- 4,100 x 1,300 mm = 5.33 m²
- 3,670 x 1,630 mm = 5.98 m²
- · 2,800 x 1,854 mm = 5.19 m²
- 4,100 x 1,854 mm = 7.60 m²

For details, see the delivery programme insert.

NT surface

A silky matte effect creates a delicate shimmer and, together with the fine hammered texture, the result is an aesthetic overall appearance.



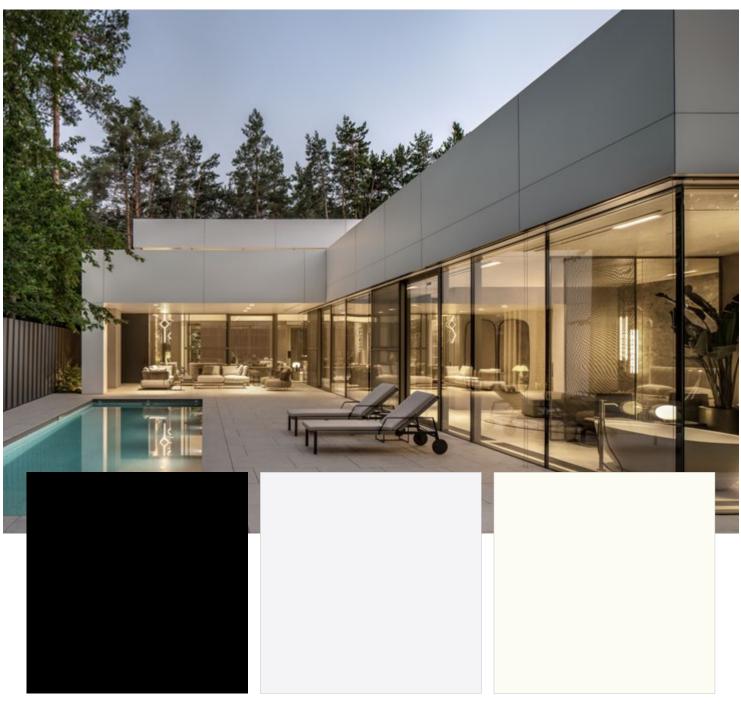
Colour

Architecture means providing perspectives and having a powerful influence on public perception.

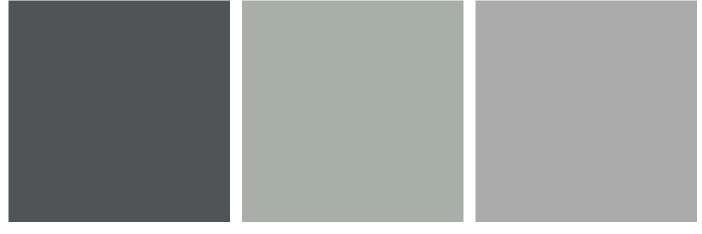
In our Exterior 2.3 | Essential Colour range, you'll find a full spectrum of colours to allow the message of the architecture to be conveyed in a stand-alone way that makes it one of a kind.

For you to create.





OO80 Black OO91 Starlight O085 White



0070 Carbon Grey

0776 Concrete Grey

0753 Cool Grey Medium



0074 Pastel Grey

0075 Dark Grey

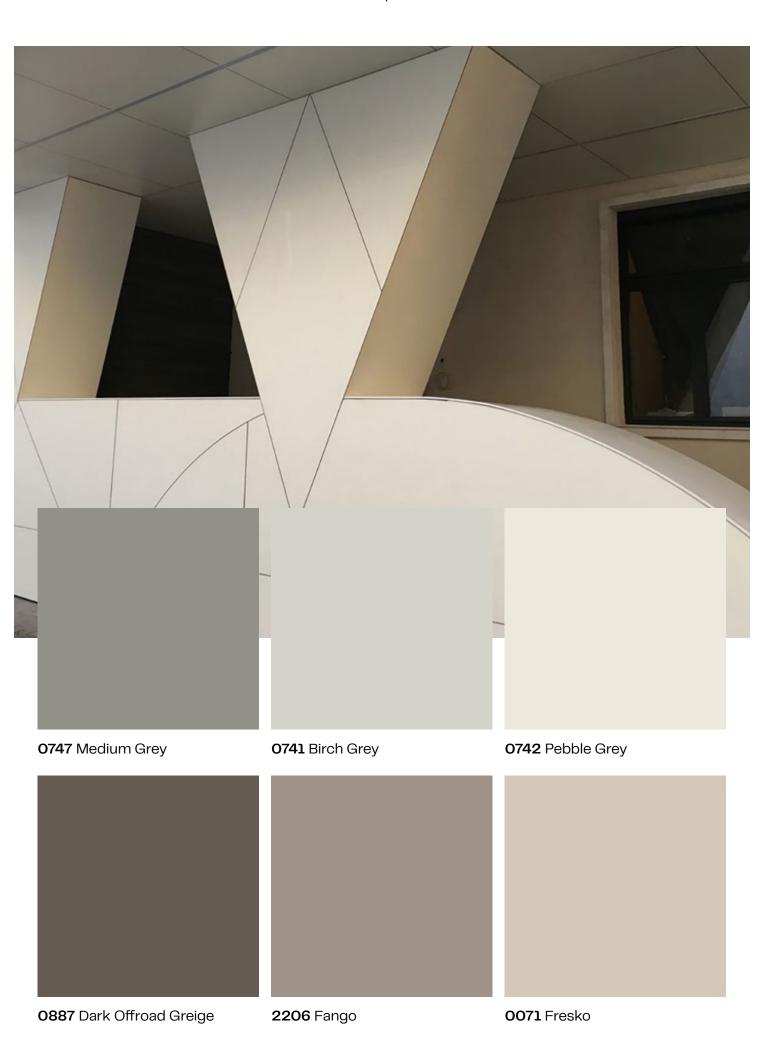
0077 Charcoal

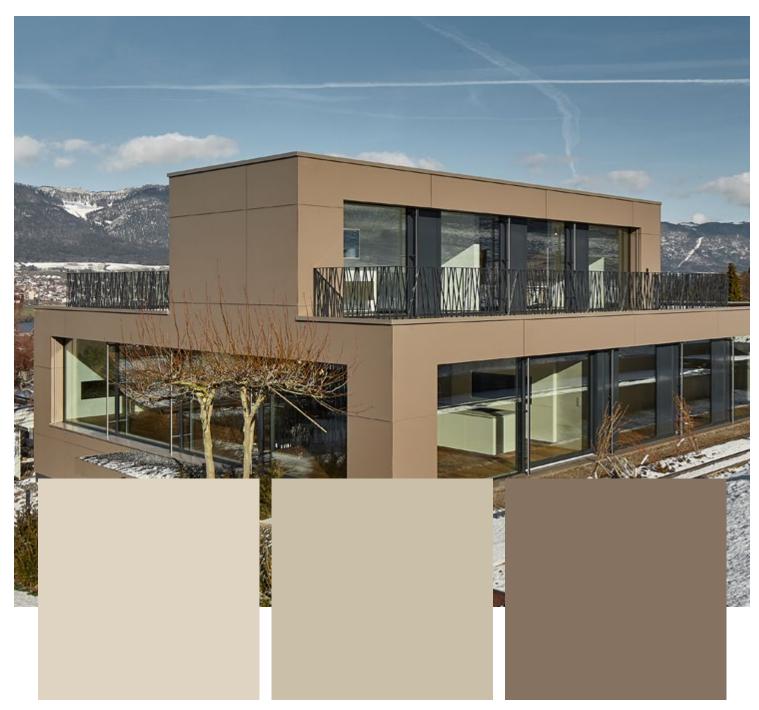


1203 Grey

0762 Neutral Grey Medium

0900 Dark Cyber Grey





Tortora **0144** Costa **0768** Sparrow



Burano **0657** Sepia Brown

Chocolate Brownie



0645 Tobacco

0098 Mandola

0081 Alpaka



0651 Cream

0733 Hygienic White

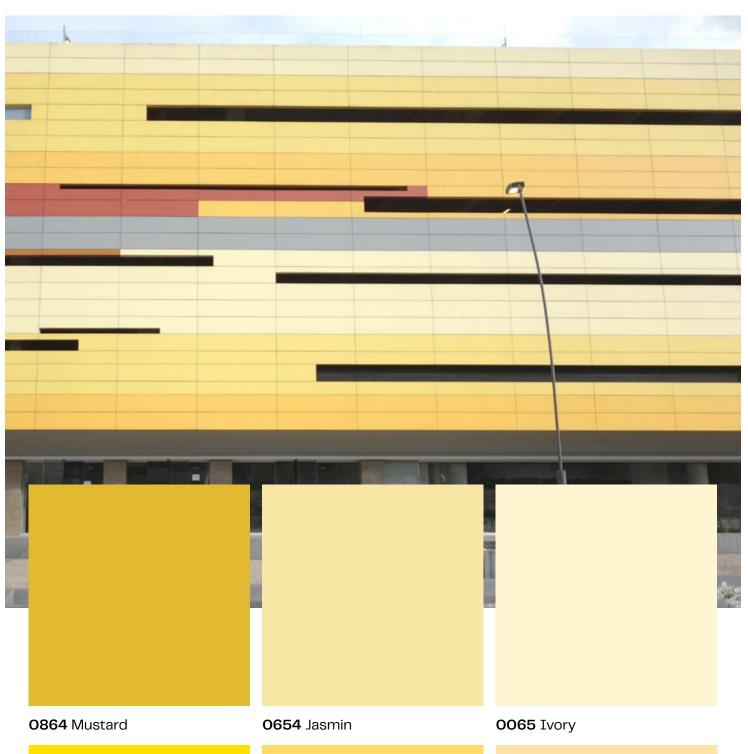


0073 Pale Ivory

0851 Winter White

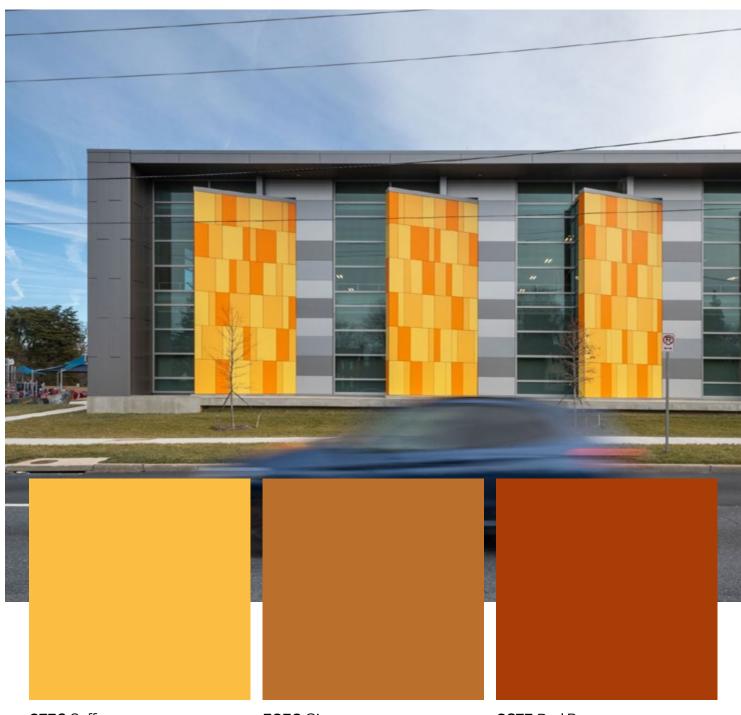
0066 Sand

0865 Lemon



0687 Maize

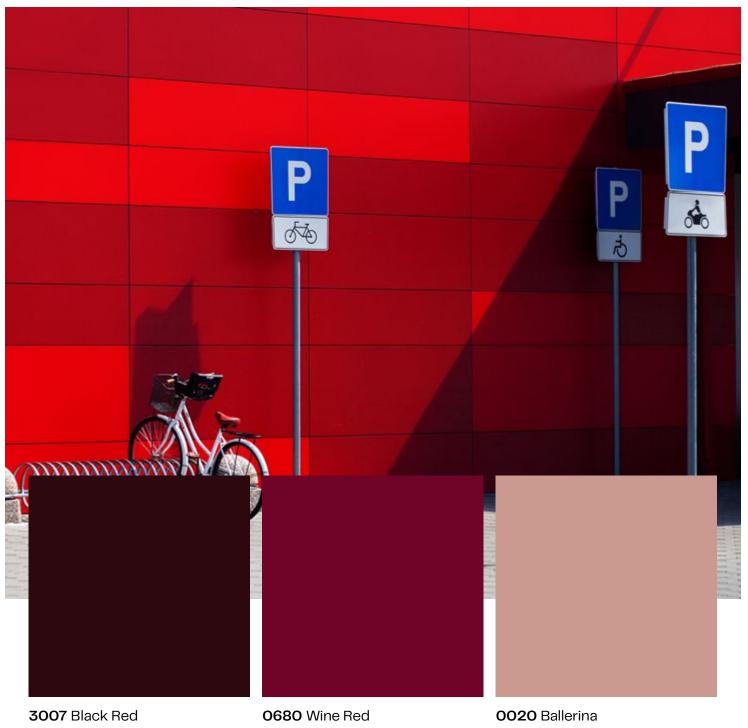
0647 Golden Yellow



 O736 Saffron
 5032 Cinnamon
 O873 Red Pepper

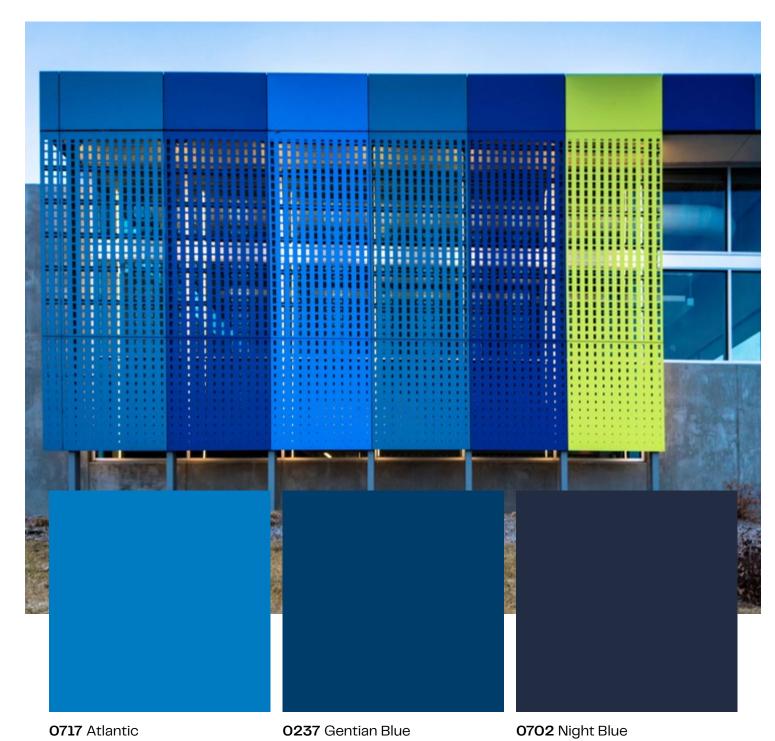
O661 Terracotta O691 Purple O874 Maroon

3003 Rubinus Red

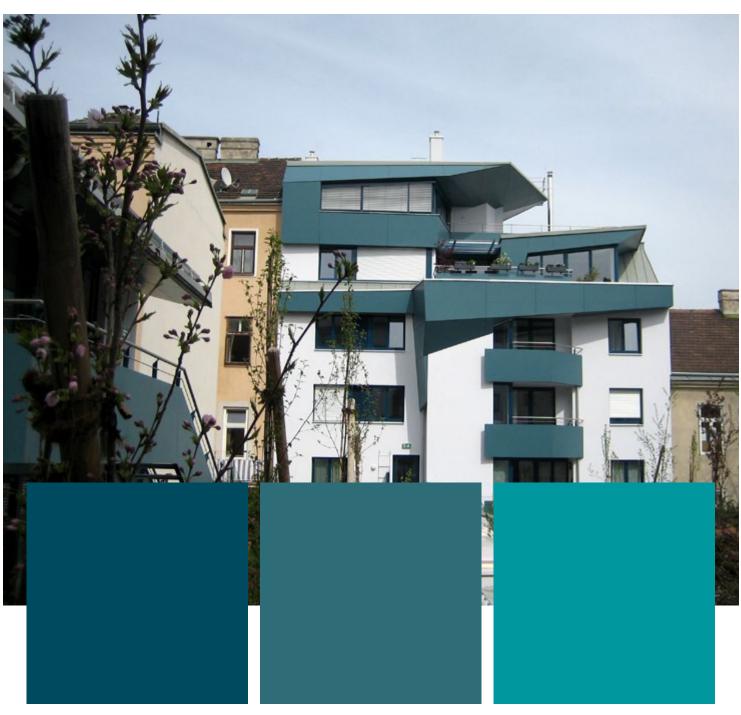


0689 Dark Red

0674 Mars Red



0706 Glacier Blue **0703** Dove Blue **0712** Steel Blue



0631 Turquoise

0617 Petrol Green

0056 Atlantis



0662 Jade Green

0663 Reseda Green

0059 Dark Green



Nature

Whatever people put together in terms of colour, shape, and texture, the world around us has already long since created it in one form or another. There is so much to discover, and most of it will be found in the smallest details.

In our Exterior 2.3 | Essential Nature range, you'll find both bold and subtle wood textures and shades for your project.

For you to create.

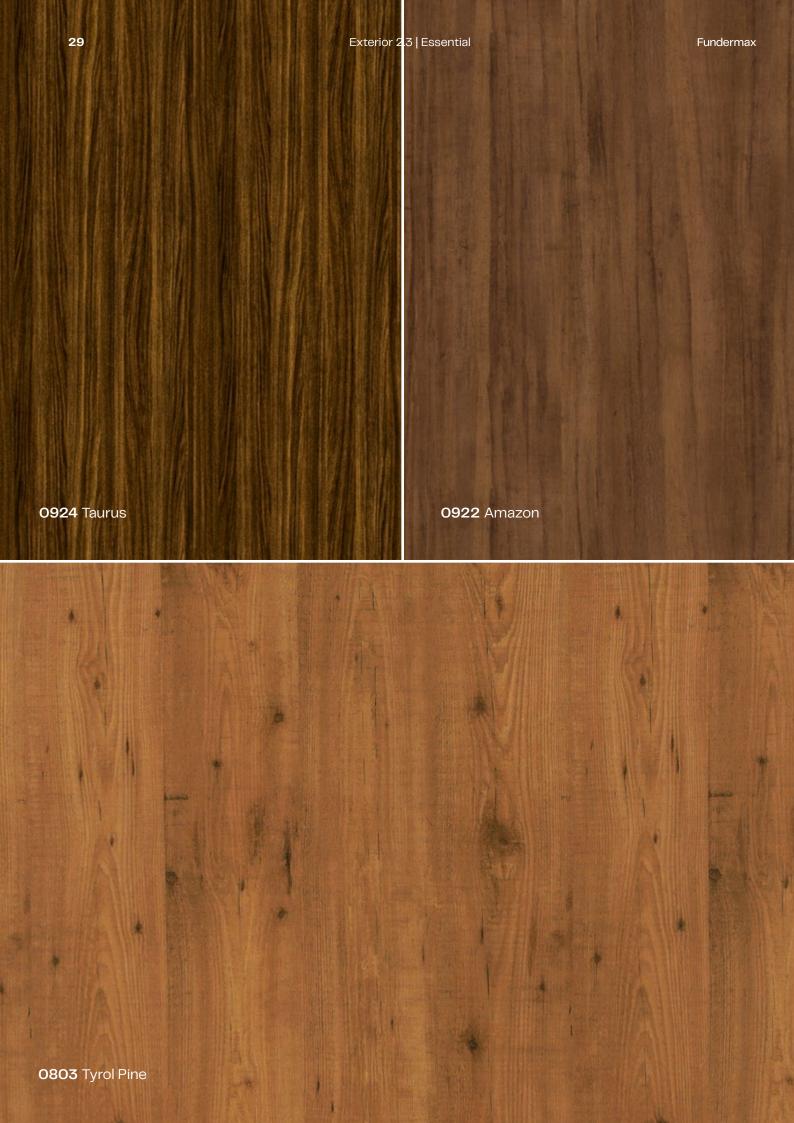


0932 Akro Terra











Material

Witness the unyielding power of nature, strong accents, and smooth textures in natural harmony, moving within itself, constantly in motion. It's a fascinating interplay of texture, colour, and material.

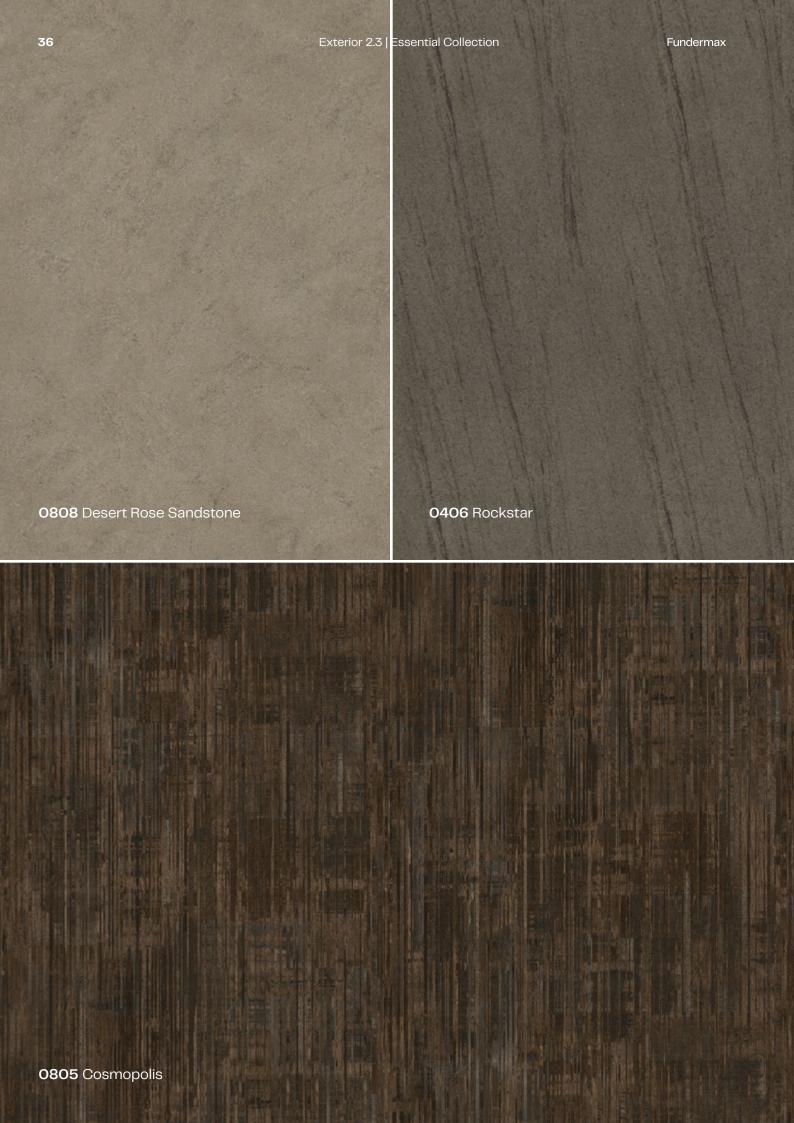
In our Exterior 2.3 | Essential Material range, you'll find designs that reveal something new every time you look at your project.

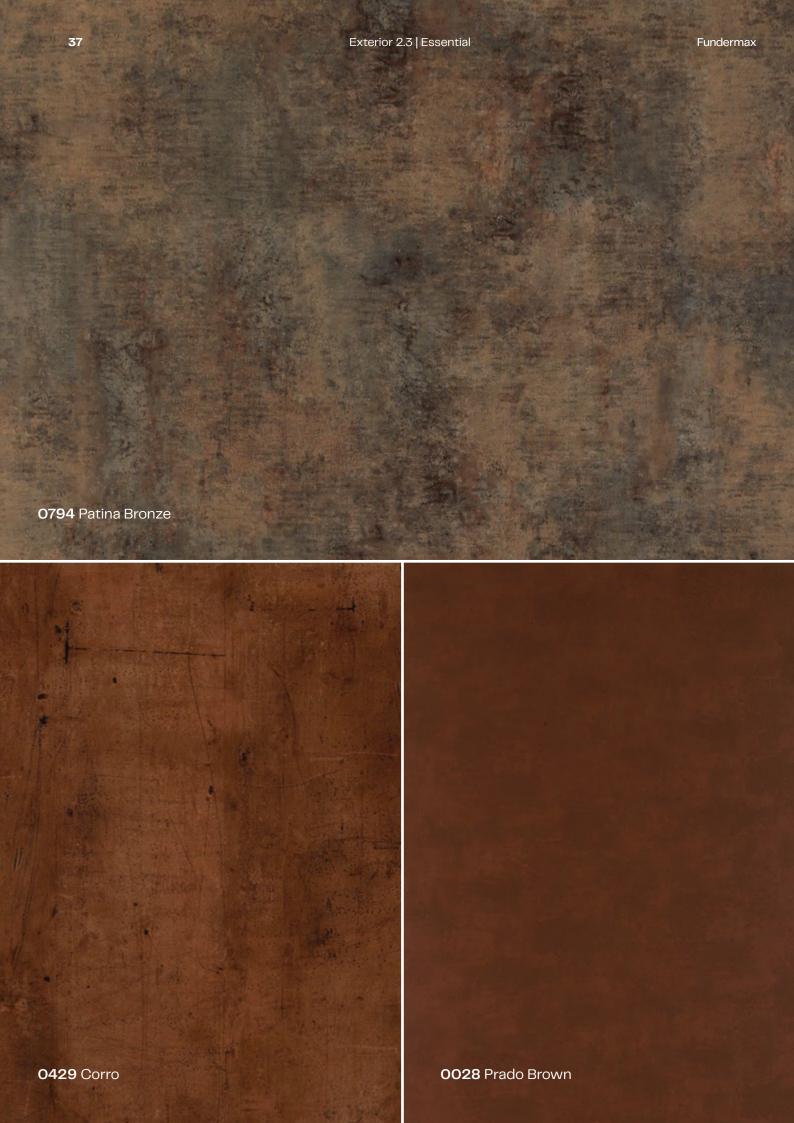
For you to create.

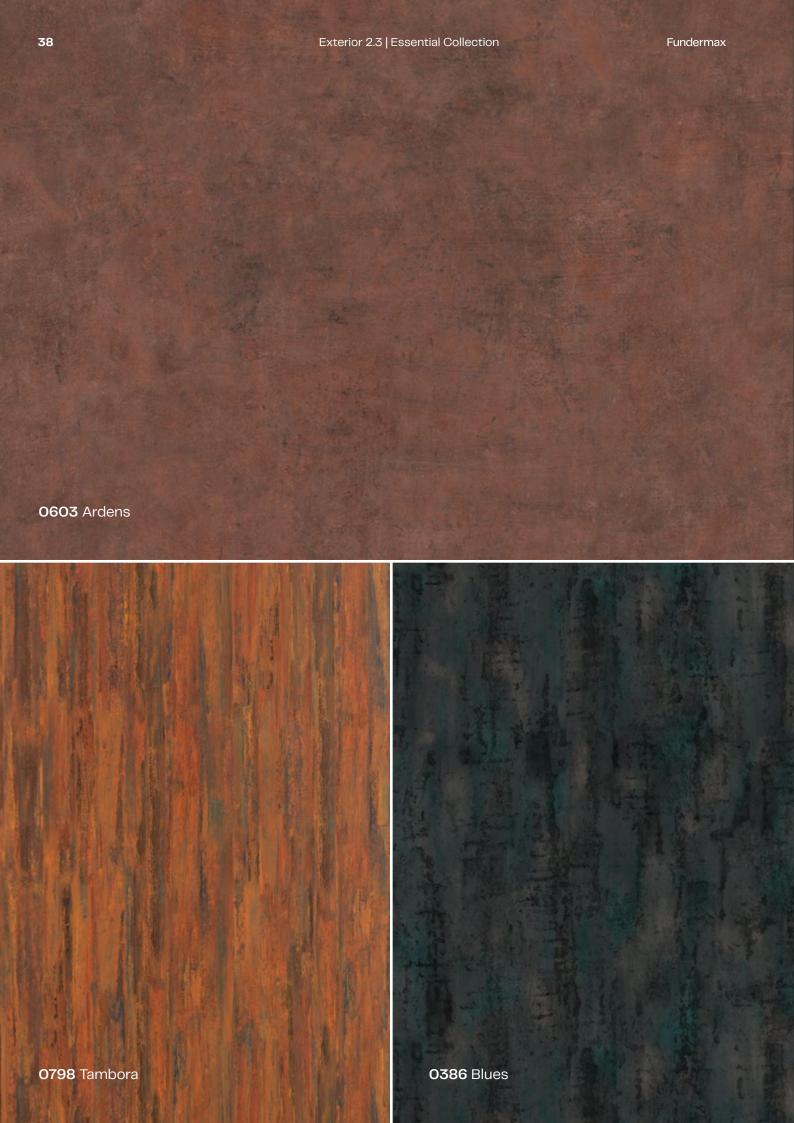


0394 Moonwalk



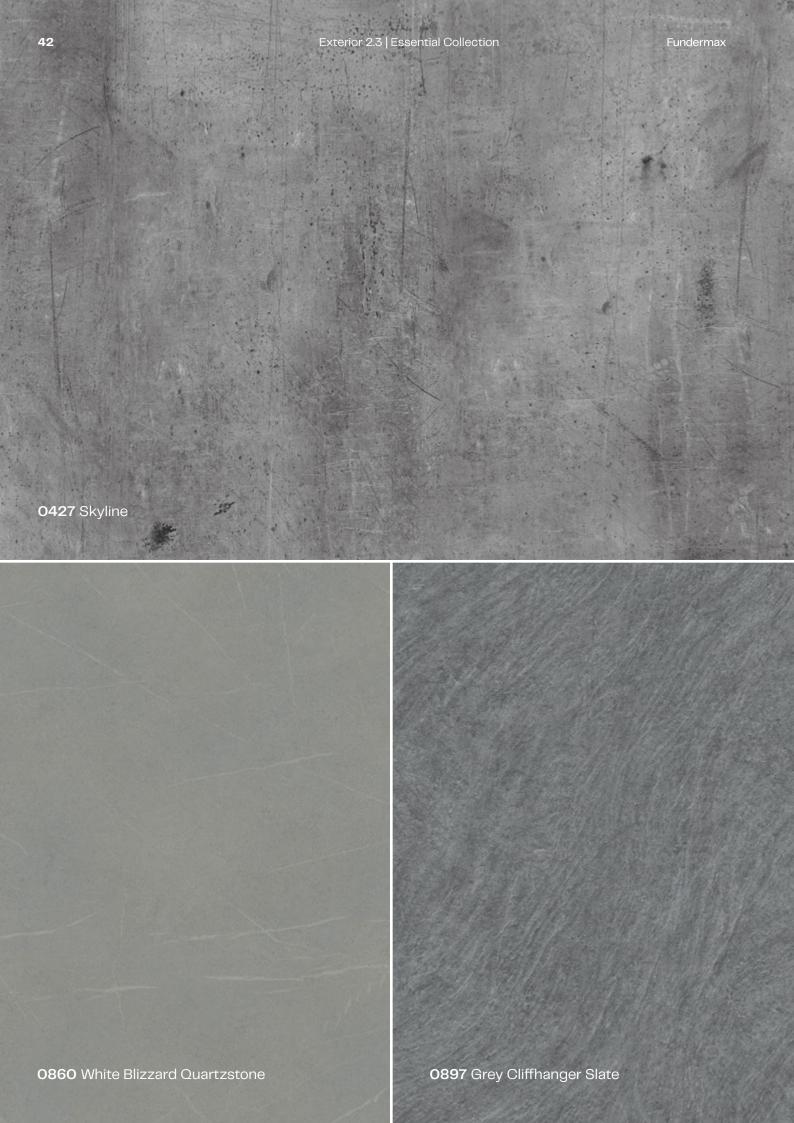






0903 Urban Galaxy Limestone

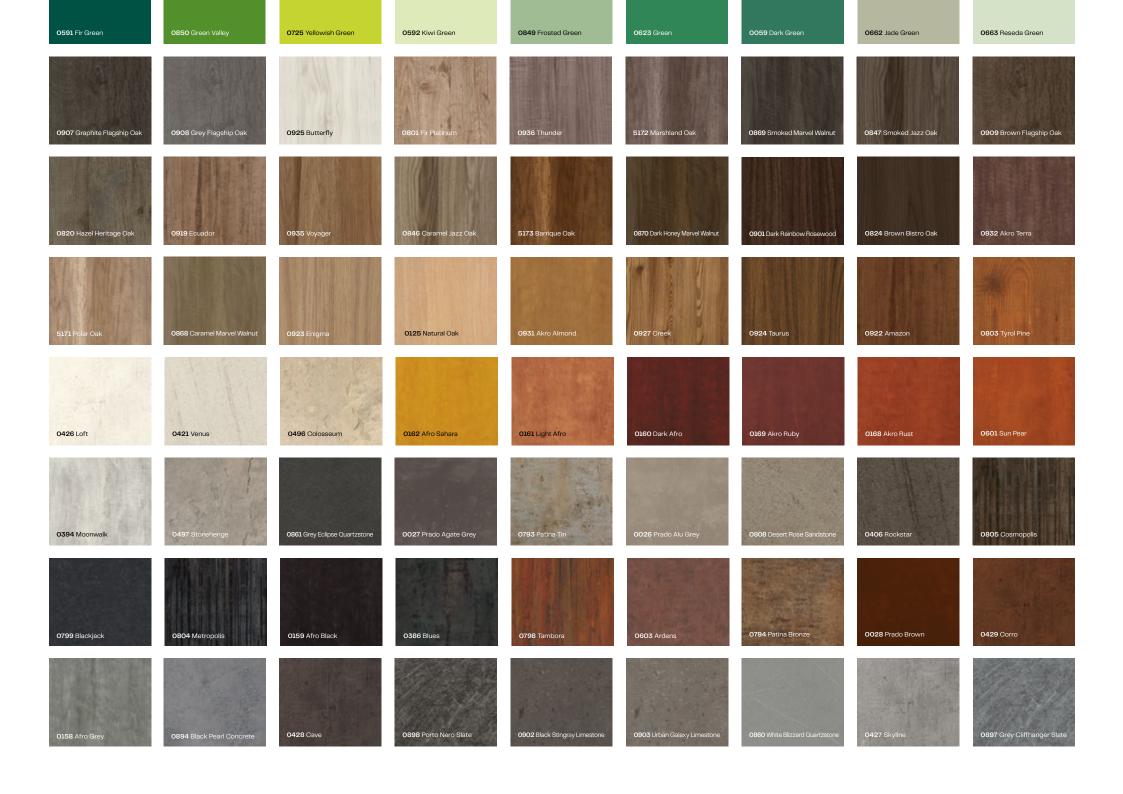
0902 Black Stingray Limestone





Decor overview





3 Products

Everything Max Compact Exterior can do

Max Compact Exterior panels are thermoset high-pressure laminates (HPL) that meet the requirements of EN 438-6, type EDF, and are produced in high-pressure lamination presses at high temperature.

Dual-cure acrylic polyurethane resin ensures highly effective weather protection, making it particularly well suited to balcony and facade cladding.

For extreme weather and environmental conditions*



weather-resistant



optimally lightfast



dual-cure



scratch-resistant



impact-resistant

Design freedom and efficiency



Large range of decorative finishes



Design using CNC systems



Cost savings—5 sizes, little waste

Installation and Maintenance



Quick installation



Decor on both sides



Easy to clean



Resistant to solvents

Composition of Max Compact Exterior Panels





The 'Biobased Product' label highlights biobased materials that contain a significant proportion of biomass by certifying their content of biobased materials.

A minimum proportion of biobased material is defined for each product family (60% for facade cladding).



FSC certification guarantees the origin and traceability of timber and paper products with a minimum amount of timber.

Certified products come from sustainable, socially responsible, and economically viable forestry management along the entire supply chain.



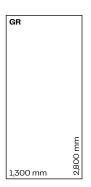
PEFC certification guarantees the origin and traceability of timber and paper products with an obligation for improvement.

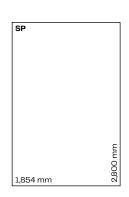
Certified products come from sustainable forestry management that respects biodiversity and the vitality of ecosystems.

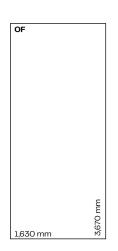
Max Compact Exterior F Quality

A high-quality construction product bearing the CE label for use as durable balcony and facade cladding. The panels are thermoset high-pressure laminates (HPL) that meet the requirements of EN 438-6, type EDF, with the most effective weather protection thanks to dual-cure acrylic polyurethane resin.

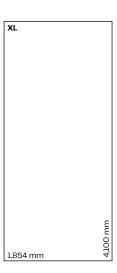
Exterior 2.3 Essential











Surfaces*

NT

Sizes**

- 2,800 x 1,300 mm = 3.65 m²
- 4,100 x 1,300 mm = 5.33 m²
- 3,670 x 1,630 mm = 5.98 m²
- · 2,800 x 1,854 mm = 5.19 m²
- 4,100 x 1,854 mm = 7.60 m²

Thicknesses

Thickness Tolerance (EN 438-6, 5.3)

2.0 mm
 4.0 mm
 6.0 mm
 8.0, 10.0 mm
 12.0, 13.0 mm
 0.2 mm
 0.3 mm
 0.4 mm
 0.5 mm
 12.0, 13.0 mm

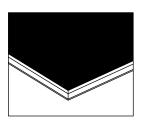
Core

- F Quality
- · Flame-retardant
- Brown colour

^{*} For the best possible appearance of the facade cladding, installation on an aluminum subframe is recommended. Timber is advised against, as an uneven surface can lead to a wavy appearance.

^{**} Panel sizes with tolerances of +10-0 mm (EN 438-6, 5.3) are standard sizes—if absolute size and angle precision is required, cutting around all sides is recommended. Depending on the cut, the net measurement reduces by approx. 10 mm.

Options



Max Compact Exterior F Quality

Max Compact Exterior panels are supplied with decors on both sides as standard. The core is made to be flame-retardant, the surface is lightfast, and the dual-cure resin is extremely weather-resistant.

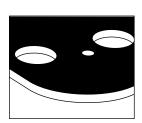
(Fire Test EN 13501-1, B-s2, d0)



Composite elements

To fabricate composite elements, the Max Compact Exterior F-Quality panels can also be supplied with reverse side sanded.

Max Compact Elements



Machining Service

Fundermax offers the option of cutting the panels and CNC machining. Using state-of-the-art systems, virtually all requirements can be fulfilled, from simple hole drilling for mounting facade panels to intricate machining for balcony components.

50 Products Fundermax

Consultation

Make the most of our architect consultation service and the extensive track record of our application technology. Certifications, approvals, BIM objects, and technical information can be found in the Downloads section on our website. Materials and decorative samples can be ordered from our website around the clock.

Tip

For a consistently light design for the interior of balconies, Max Compact Exterior panels can also be made with a white (reverse) side (0890 NT – Balkonweiss). The combination of different decors means the stated fixing distances should be reduced by at least 15%.



Max Compact Exterior-physical data and approvals

Lightfastness and weather resistance (NT) Resistance to artificial weathering* Resistance to UV rays*	EN 438-2:2016, Section 29, 3000 h	Contrast: Gray scale	0	
·		Contrast: Gray scale	0	
Resistance to UV rays*		Appearance: Degree	Contrast: ≥ 3 Appearance: ≥ 4	Contrast: 4–5 Appearance: 5
	EN 438-2:2016, Section 28	Contrast: Gray scale Appearance: Degree	Contrast: ≥ 3 Appearance: ≥ 4	Contrast: 4–5 Appearance: 5
Properties	Testing method	Unit of measurement	Standard value ¹⁾	Typical value ²⁾
Mechanical properties				
Bulk density	DIN 52328 / EN ISO 1183	g/cm3	≥ 1.35	1.44
Flexural strength	EN ISO 178	MPa	≥ 80	Crosswise: 105 Lengthwise: 170
Flexural modulus	EN ISO 178	MPa	≥ 9,000	Crosswise: 11,000 Lengthwise: 16,000
Tensile strength	EN ISO 527-2	MPa	-	Crosswise: 95 Lengthwise: 140
Resistance to impact with a large ball	EN 438-2:2016, Section 21	mm	≤ 10	5-6
Thermal properties				
Resistance to moisture	EN 438-2:2016, Section 15	%	Mass increase ≤ 8	2
Dimensional tolerance at high temperature	EN 438-2:2016, Section 17	%	Lengthwise: ≤ 0.30 Crosswise: ≤ 0.60	Lengthwise: 0.08 Crosswise: 0.16
Coefficient of thermal expansion	DIN 52328	1/K		18 x 10 -6
Thermal conductivity		W/mK		0.3
Water vapor diffusion resistance				approx. 17,200 µ
Building material classes				
Europe building material class	EN 13501-1	MA39-VFA Vienna	Euroclass B-s2, d0 for 6-13 mm**	
Austria facade fire testing	ÖNORM B 3800-5	MA39-VFA Vienna	tested panel thicknesses 8-13 mm	
Switzerland building material class	EN 13501-1	MA39-VFA Vienna	Euroclass B-s2, d0 for 6-13 mm ²⁾	
France building material class	NFP 92501	LNE	M1 for 2–10 mm	
Spain building material class	UNE 23727-90	LICOF	M1 for 6–10 mm	
Approvals				
Germany facade approval		Deutsches Institut für Bautech- nik, Berlin	6, 8, 10 mm, Approval no. Z-10.3-712	
ETB guidelines for components that protect against falling, from 6/1985 balcony railings		TU Hanover	present (depending on buing construction, 6, 8, 10, c	ilding regulations and rail- or 13 mm panel thickness)
France Avis technique		CSTB	6, 8, 10, and 13 mm, timber and metal subfram No. 36-87 2/16-1749 No. 36-106 2.2/14-1623_\ No. 36-125 2.2/13-1565_\ No. 36-125 2.2/21-1809_\ No. 36-125 2.2/16-1716 No. 36-29 ATT-20/013_V No. 26-29 ATT-20/014_V	/1 /2 /1
WinMark UK		Wintech	A10114	

For the NT surface, a gloss level tolerance of \pm /-5 GE is measured at 60°. With regard to colour tolerance, the ÖFHF (www.oefhf.at) Tolerances data sheet dated 16 January 2017 applies.

- 1) In accordance with EN 438-6
- 2) Typical values are given as an example only and may not be consulted in the case of any possible liability of Fundermax (they are not confirmed, guaranteed values). Fundermax only guarantees compliance with standard values.
- * Custom decorative printing: artificial weathering EN ISO 4892-2: 3,000 h; Assessed based on the gray scale EN 20105-A02: 3

Other and up-to-date tests and approvals can be found in the Downloads section on www.fundermax.com.

Please take into account any currently valid building regulations; we accept no liability in this regard.

Please check whether your construction project complies with the requirements to effectively restrict the spread of fire

(e.g., Austria: OIB RL 2, Germany: Model Administrative Provisions – Technical Building Rules, MVV TB, etc.)

This brochure is intended for specialists who are trusted to adhere to the relevant standards, technical regulations, legal requirements, and relevant guidelines relating to building products.

Rules have been painstakingly revised, however, we would like to point out that responsibility for proper planning always lies with the planner, and responsibility for correct installation lies

^{**} The exception is the Podio balcony flooring panel, Euroclass B-s2,d0 (6-20 mm)

4 Fundermax Individual Solutions

Application technology

Fundermax has been producing compact panels in Austria for over 50 years. During this time, we've advised and worked with business partners on countless projects. We collaborate with all major system partners in the field of ventilated facades and balconies, and in doing so are constantly expanding our knowledge, which we're then happy to put into the planning and realization of your project. Our experts in the area of building approval and certification deal with ensuring all relevant certifications are up to date and new ones are added. Furthermore, through our in-house services for cutting and CNC machining, we have links with all prominent tool suppliers so that we can give you the best possible advice when it comes to machining.

Application technology services



Handling compact panels



Machining compact panels



Mounting options for compact panels



Installation of compact panels



Certifications and approvals



BIM objects and CAD details



Support and email contact

For you to create—Maximum design possibilities with Fundermax Exterior

Facades are a critical architectural element, giving a building its symbolic expression and conveying the intention of the architect. At the same time, they serve as a backdrop for the public space and urban life.

With its huge range of highly weather-resistant and optimally lightfast colours, decors, and surfaces, the Fundermax Exterior collection allows for an extremely broad spectrum of design possibilities. Fundermax custom printing offers maximum design freedom, as well as the option of choosing any shape and machined engraving, which can be designed using modern CNC systems.



Custom printing

With Fundermax custom printing, everyone has the freedom to design facades, balconies, and other external features that are creative and unique. Your design can either be applied to individual panels, or—as in the example shown—across several panels. This is the ideal option for large-scale images and visual impact.







4 02 Project: Fa. Hauk factory, Czech Republic Client: Hauk s.r.o Design: graphite studio s.r.o Designers: Klára Maršíčková, Tomáš Buble

Fa. Hauk factory

The new factory is a contrast to the original neo-classical facade of the Vilém Pelly spinning building, which had to be torn down after a major fire in 2020. The historic spinning building was a landmark in the town for more than a century.

The task of Graphite Studio was to give the large new, functional facade of the factory a human scale.

The unique and personalized design suits the surroundings of the site and includes diamond shapes in reference to the company logo. A total of 538 digitally printed Fundermax panels were used to create the whole external facade.

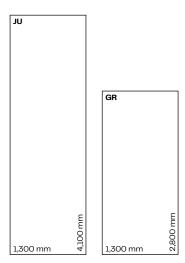
Contact and support
Individual.Druck@fundermax.biz



Scan here to view the custom decor data sheet

Fundermax custom decor options

A) As panel



B) Cut and numbered in preparation for installation

On request and using our in-house Compact Elements machining service, we're able to supply Fundermax custom printed panels ready for installation: cut, numbered, and sorted according to your requirements.



Design freedom for facade layout and surface design

Thanks to modern CNC systems, it is possible to design creative facade layouts and add accents using machined engraving. Fundermax Exterior panels are uniform in their composition, so sealing the edges isn't required.

Make use of our decades of experience in the machining of compact panels and order your project so that it's pre-sorted and ready for installation.

Compact Elements by Fundermax services



Pre-sorted and labeled according to construction phase



surface design



Pre-sorted, labeled, and palletized ready for installation



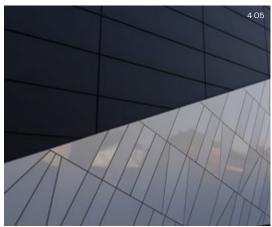
Machining compact panels

Advantages

- · No personal risk when cutting
- · Precision machining results
- · Can be delivered without offcuts on request, reducing workload when closing down the construction site
- · Numbering, palletizing, and sorting in preparation for installation makes construction site logistics easier and saves space









4 03 Facade layout Project: Aquapark

4 04 Facade layout
Project: Construction of School

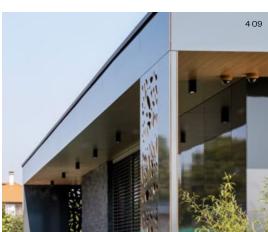
4 05 Facade layout

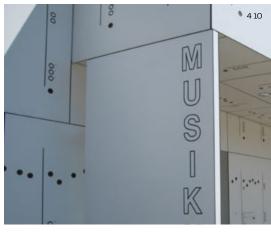
Project: Eurospar St. Valentin

4 06 Facade layout Project: Veganista









4 07 Openings and engraving Project: Cinema

4 08 Openings and engraving

Project: McDonald's Batumi

4 09 Openings and engraving Project: Detached house

4 10 Openings and engraving Project: Music school

5 Exterior Pro Collections

Exterior Pro 2.3 Surface

Exterior 2.3 \mid Essential offers maximum choice of decors and maximum efficiency with the NT surface.

For designs with surface textures and visual effects, you'll find a selection of Exterior 2.3 | Essential decors with the Gloss, Sky, and Paragon surfaces in the **Exterior Pro 2.3 | Surface** collection.



NG Gloss	
NP Paragon	
NY Sky	

NG Gloss

Combined with solid colours, the impact of NG Gloss is bold and expressive, while with wood and other material effects, it is exclusive and elegant. The surroundings are incorporated into the design through the high reflectivity of the surface, adding to its appeal.



NY Sky

Convincing depth effect and pleasant feel—this texture is spirited, raw, and natural, and complements the range of surfaces perfectly.



NP Paragon

This matte surface with anti-finger print technology is calming and self-assured. This is highlighted by the pleasant and high-value feel of NP Paragon.



Exterior Pro 2.2 Podio

Weatherproof, slip-resistant and scratch-resistant, these are just a few criteria that our specially developed balcony panel Max Compact Exterior Podio with Hexa surface meets. Due to the easy installation by screwing or gluing as well as the slip resistance according to R10 DIN 51130 and DIN 51097 it is perfectly suitable for balconies, stairs and landings. Because of the selection of different decors, the plate leaves nothing to be desired.



Exterior Pro 2.2 | Podio



Exterior Pro 2.2 Authentic

Each decor of the Authentic Collection is available in three surface finishes:

- NT
- NY
- NH



Lovers of brown and natural tones can now enjoy three completely new decors, all part of the Authentic Natura (AUTN) family.

Authentic Mocca

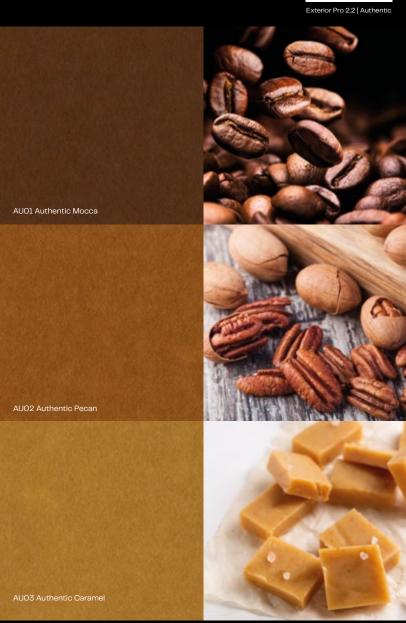
Sometimes stronger, milder, darker, lighter—all in all, Authentic Mocca is a more than tasteful composition.

Authentic Pecan

With pecans, the treasured content is protected by a resistant shell. The same is true of a building's interior and facade. By using "Authentic Pecan" an aesthetically pleasing look can be achieved.

Authentic Caramel

Facades in a "salted caramel look" range from golden yellow to honey brown. This decor was inspired by the widely loved caramel candy with its different shades of colour.



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