

# Universal Range of decors Max Compact Exterior

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[www.fundermax.com](http://www.fundermax.com)



For you to create



# Fundermax





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## 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 1,500 employees
- annual sales of €500 million
- part of Constantia Industries AG
- The Austrian Excellence Award (2018)

# 1 Product information

Fundermax panels from the Universal collection are suitable for inside and exterior application. They are large-format duromer high-pressure laminates (HPL) in accordance with EN 438 type EGF. They are produced in lamination presses under great pressure and high temperature.

## Surface

FH

## Formats (production-sizes)

2800 x 1300 mm = 3.64 m<sup>2</sup>

4100 x 1300 mm = 5.33 m<sup>2</sup>

2800 x 1854 mm = 5.19 m<sup>2</sup>

4100 x 1854 mm = 7.60 m<sup>2</sup>

Tolerances: +10 - 0 mm

Panel formats are production formats. If exact dimensions and angles are necessary, we recommend an all-sided blank. Depending on the method of trimming, net size is reduced by ca. 10 mm.

## Core

F-Quality, colour brown

## Thicknesses

Panels with double-sides decor:

Thicknesses	Tolerances (EN 438-6, 5.3)
2.0 - 2.9 mm	± 0.2 mm
3.0 - 4.9 mm	± 0.3 mm
5.0 - 7.9 mm	± 0.4 mm
8.0 - 11.9 mm	± 0.5 mm
12.0 - 13.0 mm	± 0.6 mm

Panels with sanded-reverse side:

For symmetrically structured sandwich elements.

Thicknesses	Tolerances (EN 438-6, 5.3)
2.0 - 2.9 mm	± 0.2 mm
3.0 - 4.0 mm	± 0.3 mm

In order to be able to design the inner sides of balconies with a uniformly light look, it is also possible to produce Max Universal panels with a white (rear) side using decor O890 NT - Balcony white.

As a result of the differing decor structure, the fastening spacings given in our Technical Information brochures should be reduced by about 15 %.

Please note the minimum quantity of 160 panels in sizes 2800 x 1300 mm and 2800 x 1854 mm resp. 120 panels in sizes 4100 x 1300 mm and 4100 x 1854 mm.

## 2 Decors and Delivery program

<b>0771</b> Alabaster	<b>0772</b> Mother of pearl	<b>0774</b> Fog grey
<b>0775</b> Aluminium grey	<b>0746</b> Hygienic grey	<b>0773</b> Clay

Due to the printing process, the original patterns may differ from the images in this brochure.

### Delivery program

			Produkt	Max Compact Exterior			
			Formats (mm)	4100 x 1854	4100 x 1300	2800 x 1854	2800 x 1300
			Thicknesses (mm)	2.0-13.0			
			Surfaces	FH			
			Core colour	brown			
Type of decor	Decor No.	Decor name	nearest NCS-code				
U	0746	Hygienic grey	S 3000-N	○	○	○	○
U	0771	Alabaster	S 0500-N	○	○	○	○
U	0772	Mother of pearl	S 0804-Y10R	○	○	○	○
U	0773	Clay	S 2010-Y40R	○	○	○	○
U	0774	Fog grey	S 1502-Y	○	○	○	○
U	0775	Aluminium grey	S 2500-N	○	○	○	○

#### Delivery options

- = available in commercial quantities from stock
- = in accordance with current delivery times

#### Type of decor

U = Colour

No quantity limit, delivery time provided upon request.

Recommendations on applications, working and construction can be found in our Technical Information brochures.

# 3 Physikalische Daten

Properties	Testing method	Assessment	Standard value <sup>1)</sup>	Typical value <sup>2)</sup>
<b>Lightfastness and weather resistance (NT)</b>				
Resistance to artificial weathering*	EN 438-2:2016, Section 29, 3000 h	Contrast: Gray scale Appearance: Degree	Contrast: $\geq 3$ Appearance: $\geq 4$	Contrast: 4-5 Appearance: 5
Resistance to UV rays*	EN 438-2:2016, Section 28	Contrast: Gray scale Appearance: Degree	Contrast: $\geq 3$ Appearance: $\geq 4$	Contrast: 4-5 Appearance: 5
<b>Properties</b>				
<b>Mechanical properties</b>				
Bulk density	DIN 52328 / EN ISO 1183	g/cm <sup>3</sup>	$\approx 1.35$	1.44
Flexural strength	EN ISO 178	MPa	$\approx 80$	Crosswise: 105 Lengthwise: 170
Flexural modulus	EN ISO 178	MPa	$\approx 9,000$	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	$\leq 10$	5-6
<b>Thermal properties</b>				
Resistance to moisture	EN 438-2:2016, Section 15	%	Mass increase $\leq 8$	2
Dimensional tolerance at high temperature	EN 438-2:2016, Section 17	%	Lengthwise: $\leq 0.30$ Crosswise: $\leq 0.60$	Lengthwise: 0.08 Crosswise: 0.16
Coefficient of thermal expansion	DIN 52328	1/K		18 x 10 <sup>-6</sup>
Thermal conductivity		W/mK		0.3
Water vapor diffusion resistance				approx. 17,200 $\mu$
<b>Building material classes</b>				
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	
Fire resistance test balcony floor Podio Austria	EN 1365-2	MA39-VFA Vienna	R30 for panel thickness 20 mm	
Switzerland building material class	EN 13501-1	MA39-VFA Vienna	Euroclass B-s2, d0 for 6-13 mm <sup>2)</sup>	
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	
Poland building material class	PN-B-02867:2013-06	Instytut Techniki Budowlanej	NRO for 6 - 10 mm mechanical visible/invisible fixing NRO for 8 - 10 mm invisible glued fixing	
<b>Approvals</b>				
Germany facade approval		Deutsches Institut für Bautechnik, 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 building regulations and railing construction, 6, 8, 10, or 13 mm panel thickness)	
France Avis technique		CSTB	6, 8, 10, and 13 mm, timber and metal subframe, approval No. 36-87 2/16-1749 No. 36-106 2.2/14-1623_V1 No. 36-125 2.2/13-1565_V2 No. 36-125 2.2/21-1809_V1 No. 36-125 2.2/16-1716 No. 36-29 ATT-20/O13_V1 No. 26-29 ATT-20/O14_V1	
WinMark UK		Wintech	A10114	

For the NT surface, a gloss level tolerance of +/-5 GE is measured at 60°. With regard to colour tolerance, the ÖFHF ([www.oefhf.at](http://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

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

Other and up-to-date tests and approvals can be found in the Downloads section on [www.fundermax.com](http://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, MVB 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 with the contractor.

## 4 Possible uses

### Exterior Applications

- Facade cladding
- Balcony cladding
- Balcony partitions
- Attic cladding
- Wall protection cladding
- Railings
- Door, gate and parapet fillers
- Sports centre furnishing
- Playground furnishing

### Interior Applications

- Wall cladding protection
- Railings
- Partitions
- Cubicles
- Furniture
- Tabletops

4 01



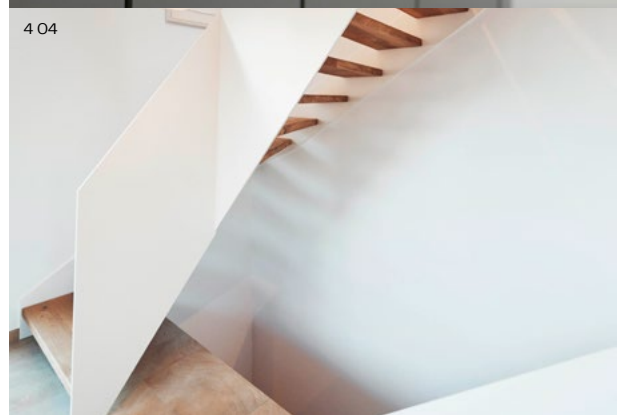
4 02



4 03



4 04



4 01 Na Križovatkách Bratislava

4 02 SK Kolos

4 03 Bathhouse Bad Boll

4 04 Stairs with Max Compact Interior stringers

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