

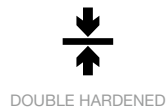
## What Max Exterior Can Do

Max Exterior panels are duromer high-pressure laminates (HPL) in accordance with EN 438-6 Type EDF that are produced in lamination presses under great pressure and high temperature. Double-hardened acrylic PUR resins provide extremely effective weather protection that is particularly suitable for longlasting balconies and façade claddings.

### PROPERTIES\*:

- Weather resistant to EN ISO 4892-2
- lightfast acc. to EN ISO 4892-3
- Double hardened
- Scratch resistant
- Solvent resistant
- Hail resistant
- Easy to clean
- Impact resistant EN ISO 178
- Suitable for all exterior applications
- Decorative
- Self-supporting
- Bending resistant EN ISO 178
- Frost resistant -80°C to 180°C (DMTA- OFI 300.128)
- Heat resistant -80°C to 180°C (DMTA- OFI 300.128)
- Easy to install

\*STANDARD- AND ACTUAL-VALUES YOU WILL FIND ON OUR WEBSITE [WWW.FUNDERMAX.AT](http://WWW.FUNDERMAX.AT).



## Max Exterior F-Quality

Max Exterior is a high-quality construction product which is used especially for long-lasting balcony and façade claddings. Max Exterior panels are duromer high-pressure laminates (HPL) in accordance with EN 438-6 Type EDF with extremely effective weather protection. This weather protection consists of doublehardened acrylic polyurethane resins. They are produced in lamination presses under great pressure and at high temperatures. Max Exterior panels are, of course, labelled with the CE-Mark necessary for their use in building applications.

### SURFACES

NT  
 NH (Hexa)/NT (format 4100 x 1854 mm only)  
 NG\* (Gloss)/NG (Gloss) (format 4100 x 1300 mm only)  
 NY (SKY)/NT (format 4100 x 1300 mm only, thicknesses 6 mm, 8 mm, limited decor palette)

### FORMATS (aprox)

2800 x 1300 = 3,64 m<sup>2</sup>  
 110,24" x 51,18" = 39,18 sf  
 4100 x 1300 = 5,33 m<sup>2</sup>  
 161,42" x 51,18" = 57,37 sf  
 2800 x 1854 = 5,19 m<sup>2</sup>  
 110,24" x 72,99" = 55,87 sf  
 4100 x 1854 = 7,60 m<sup>2</sup>  
 161,42" x 72,99" = 81,81 sf

\*TO GET A PERFECT DESIGN OF THE FAÇADE CLADDING WITH NG SURFACE IT IS RECOMMENDED TO GLUE THE PANELS ON AN ALUMINIUM-SUBCONSTRUCTION. SUBCONSTRUCTION LIKE WOOD DO NOT HAVE THE RIGHT PROPERTIES TO AVOID A WAVY APPEARANCE OF THE CLADDING.

### CORE

F-Quality, flame-retardant, colour brown

### THICKNESSES

Panels with double-sided decor:  
 Thicknesses Tolerances (EN 438-6, 5.3)  
 4,0 - 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

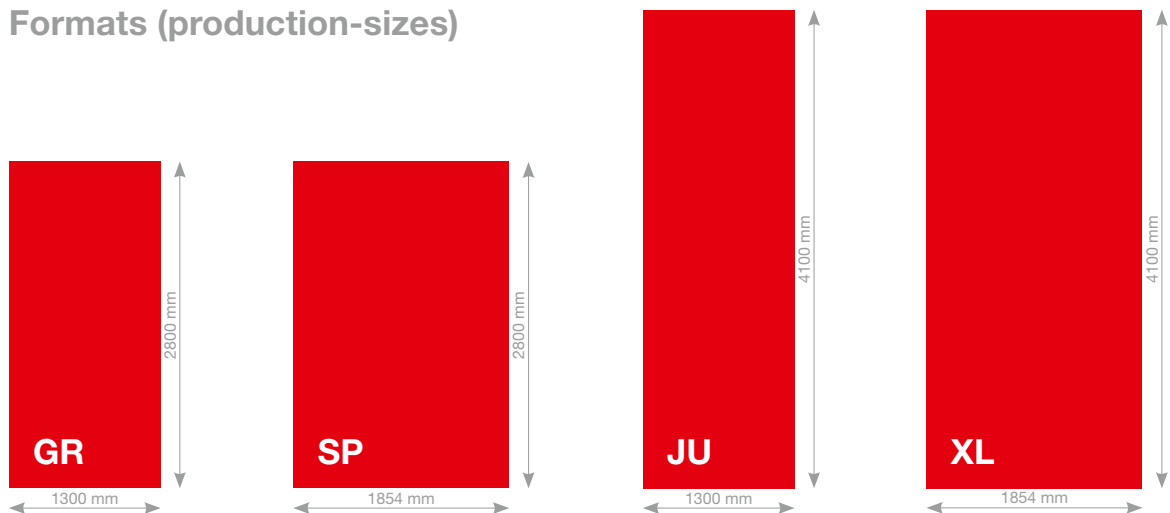
Higher thicknesses on request in standard quality, Format XL.

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

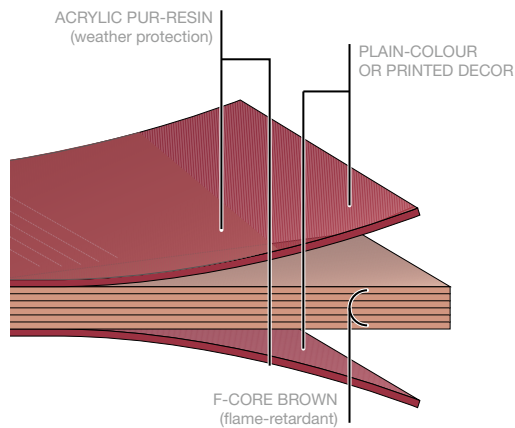
In order to be able to design the inner sides of balconies with a uniformly light look, it is also possible to produce Max Exterior panels with a white (rear) side using decor 0890 NT – Balcony white. As a result of the differing decor structure, the fastening spacings given in our Technical Information brochures should be reduced by about 15 %.

### Formats (production-sizes)



TOLERANCES +10 - 0 mm (EN 438-6, 5.3)  
 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.

**STRUCTURE MAX EXTERIOR PANEL**



**PHYSICAL DATA**

PROPERTIES	TEST METHOD	ASSESSMENT	STANDARD VALUE	ACTUAL VALUE
<b>LIGHT-FASTNESS AND WEATHER RESISTANCE (SURFACE NT)</b>				
Artificial weathering*	EN ISO 4892-2 3000 h	EN 20105-A02 greyscale	≥ 3	4-5
UV-light resistance	EN ISO 4892-3 1500 h	EN 20105-A02 greyscale	≥ 3	4-5
PROPERTIES	TEST METHOD	ASSESSMENT	STANDARD VALUE	ACTUAL VALUE
<b>MECHANICAL PROPERTIES</b>				
Apparent density	EN ISO 1183-1	g/cm <sup>3</sup>	≥ 1,35	≥ 1,35
Flexural strength	EN ISO 178	MPa	≥ 80	≥ 80
Modulus of elasticity	EN ISO 178	MPa	≥ 9.000	≥ 9.000
Tensile strength	EN ISO 527-2	MPa	≥ 60	≥ 60
Coefficient of thermal expansion	DIN 52328	1/K		18 x 10 <sup>-6</sup>
Thermal conductivity		W/mK		0,3
Water vapour diffusion resistance				ca. 17.200 μ
<b>FIRE BEHAVIOUR</b>				
Europe	EN 13501-1	MA39-VFA Vienna	Euroclass B-s2, d0 für 6 - 20 mm	
Switzerland		EMPA Dübendorf	Fire classification 5.3 für 6 - 13 mm	
Germany	DIN 4102	MPA-Hannover	B1 für 6 - 10 mm	
France	NFP 92501	LNE	M1 für 2 - 10 mm	
Spain	UNE 23727-90	LICOF	M1 für 6 - 10 mm	
<b>PERMITS</b>				
Façade permit Germany		Institut für Bautechnik Berlin	6, 8, 10 mm, Approval-No. Z-33.2-16	
ETB guidelines for building components which safeguard against falls, June 1985. Balcony railings.		TU Hannover	Passed (depending on building regulation and railing construction 6, 8 or 10 mm panel thickness)	
Avis technique Frankreich		CSTB	6, 8, 10 und 13 mm, wood- and metal subconstruction Avis Technique n° 2/10-1427 Avis Technique n° 2/12-1504 Avis Technique n° 2/12-1505 Avis Technique n° 2/12-1513 Avis Technique n° 2/12-1522	

\* DECOR AUTN: ARTIFICIAL WEATHERING EN ISO 4892-2: 1500H. IN ACCORDANCE WITH THE GRAY SCALE EN 20105-A02: 3

ALL THE RESPECTIVE CURRENT CERTIFICATES AND APPROVALS ARE AVAILABLE IN THE DOWNLOAD SECTION AT WWW.FUNDERMAX.AT. PLEASE OBSERVE ALL VALID BUILDING REGULATIONS. WE WILL ASSUME NO RESPONSIBILITY IN THIS REGARD.