

**FUNDERMAX**®



**Max Resistance<sup>2</sup>  
Compact Laminate  
for extreme demands**

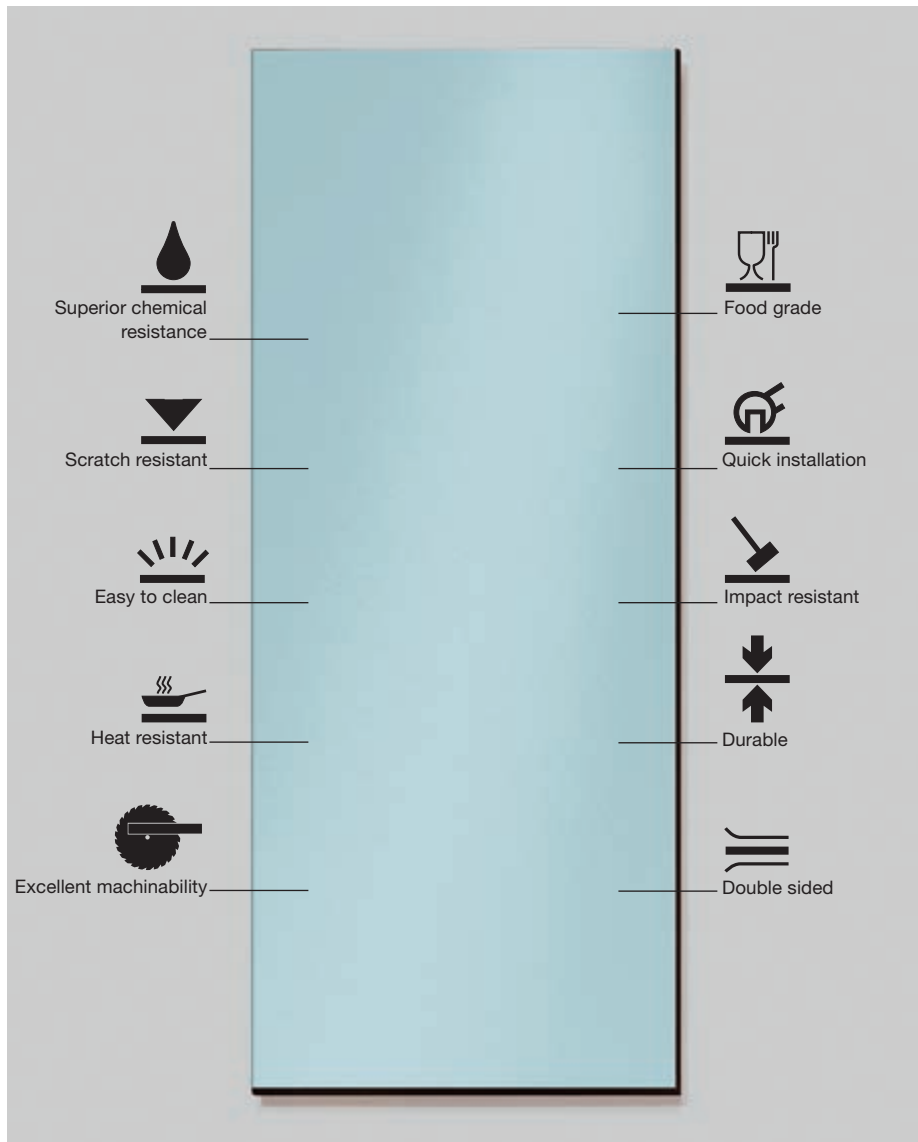
**interior**

**for  
people  
who  
create**

## Max Resistance<sup>2</sup>. Now best in his class.

If you are looking for a worktop panel that resists even the most aggressive chemicals in the extreme working conditions of the laboratory sector, there is only one choice: Max Resistance<sup>2</sup>.

A product improvement of the established FunderMax worktop panels.



Because the surface, protected with a double cured urethane acrylic coating, has proven itself to be unaffected by solvents and aggressive chemicals, easy to clean and disinfect, it extends the serviceable life of your equipment (worktop panels, walls, tables etc.) enormously.

### Additional benefits

Max Resistance<sup>2</sup> is both chemical-resistant and highly mechanical resistant. If you know the heart of the matter, you will immediately understand why. Max Resistance<sup>2</sup> consists of approved and tested raw materials, produced under high temperature and pressure they emerge as a unique compact laminate core to a homogeneous decorative panel. Manufactured without joints and fully enclosed it is therefore permanently resistant against moisture penetration.

### Max Resistance<sup>2</sup>

Ideal for all types of laboratories, in the hygienic sector, for research centres, hospitals or doctor's surgery, photo laboratories, the foodstuffs industry, schools, pharmaceutical industry and everywhere, where absolute cleanliness of a highly resistant surface is demanded.

Contact with highly concentrated acids like Nitric or Hydrochloric Acid do not change the surface or color at all, which is unique compared to all other compact worktops on the market.

- higher coating thickness
- abrasion-resistant
- silicone free
- certified quality
- integrated surface

Max Resistance<sup>2</sup>.  
Optimal size.

FUNDERMAX<sup>®</sup>

**Panel size:**

3660 x 1630 mm (144,1 x 64,2 inch)

**Standard thicknesses:**

12 mm (~1/2 inch)

16 mm (~5/8 inch)

19 mm (~3/4 inch)

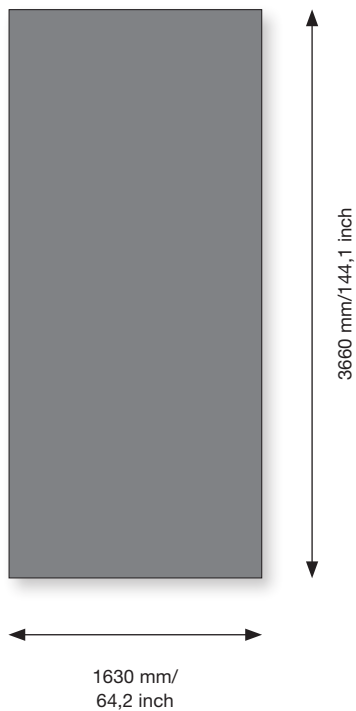
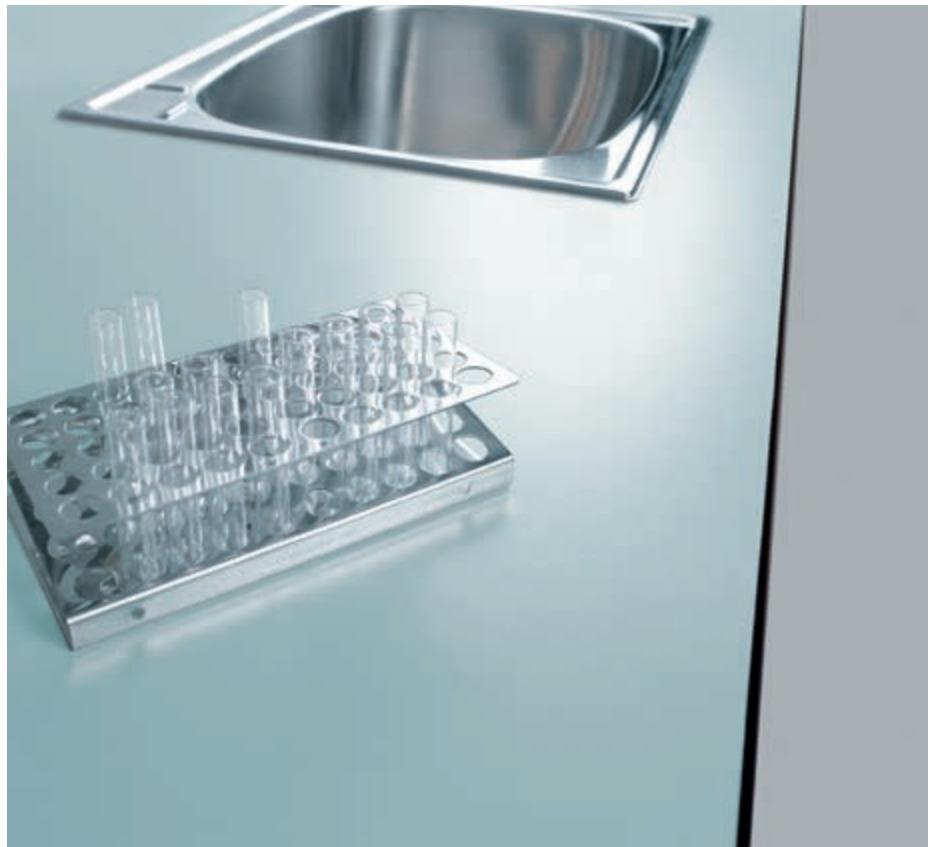
25 mm (~1 inch)

other thicknesses upon request

**Surface texture:**

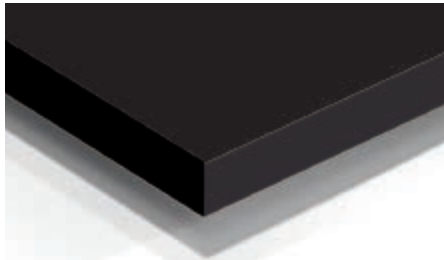
RE

The surface texture is combinable with 5 other FunderMax panel sizes and all product lines, if it is needed in an larger project or furnishing of buildings.

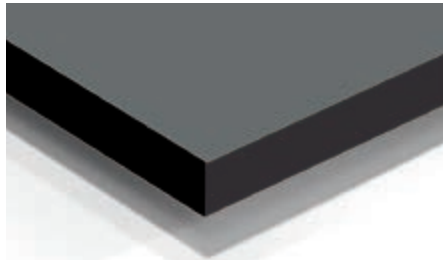


## Collection Max Resistance<sup>2</sup>

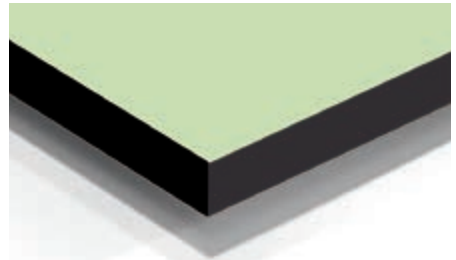
A deep black core. No need for treatment or sealing.  
Max Resistance<sup>2</sup> comes with double sided decor and finish for maximum flatness and minimized off-cuts in fabrication.



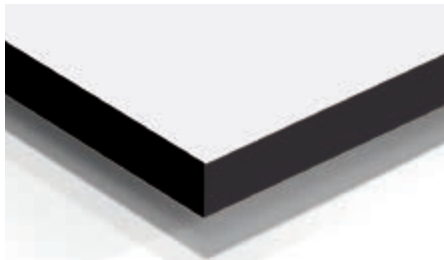
0082 Deep Black\*



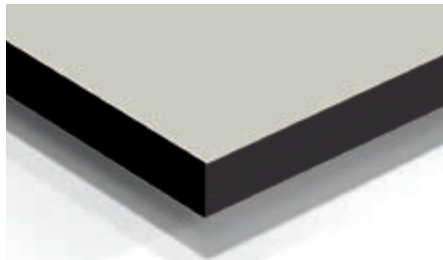
0075 Dark Grey



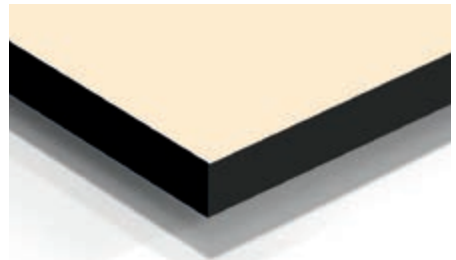
0592 Kiwi Green



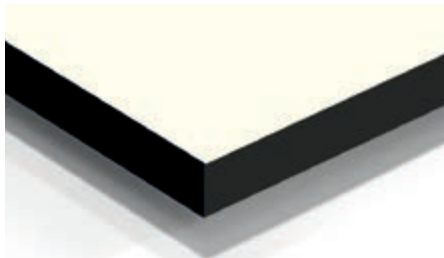
0606 Arctic White\*



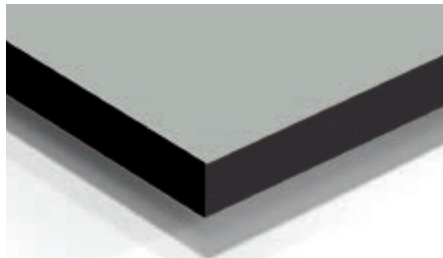
0741 Birch Grey\*



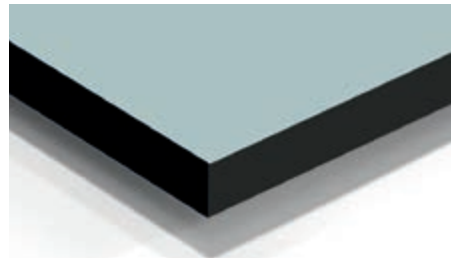
0851 Winter White



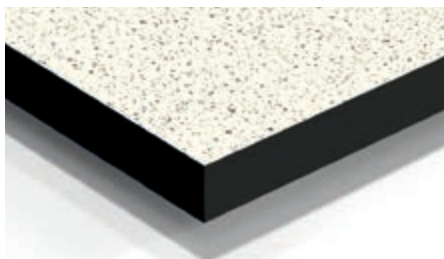
0085 White\*



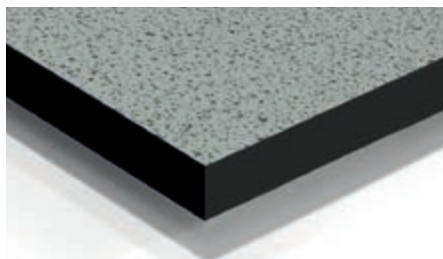
0074 Pastel Grey\*



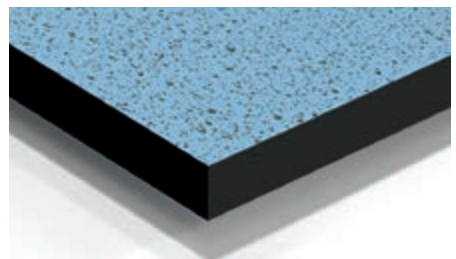
0706 Glacier Blue



0558 White Punto



0559 Pastel Grey Punto



3361 Arctic Punto

### Max Resistance<sup>2</sup> with RE surface

#### \*Standard decors:

no minimum order quantity

#### Other decors:

Minimum order: 40 panels

Peelable protective film on both sides for maximum protection during transport, fabrication and installation.

**On request also available in F-quality!**

All decors also available as Max Compact Interior with surface texture FH in size 3660 x 1630 mm (144,1 x 64,2 inch) and some more sizes.

Please ask for details.

Color variations from the original decors are caused to the technical limitations of the printing process. Please ask always for original samples.

## More decors available

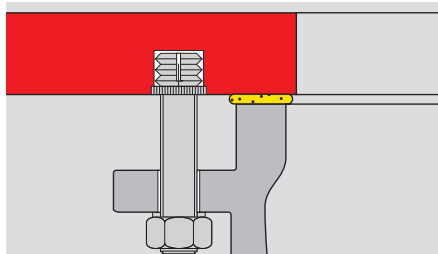
There are many more decors available in the standard range of decors with FH surface. Please ask for details.



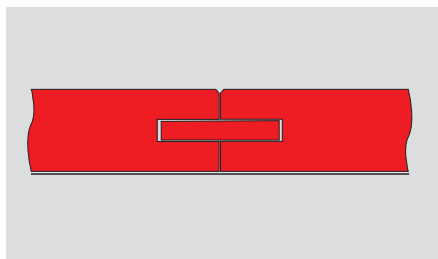
## Processing recommendations

Our Resistance<sup>2</sup> panel is very easy to machine and to install in difference to other materials.

For special and detailed information about processing recommendations please have a look into our brochure "Interior Technique" or visit our website [www.fundermax.at](http://www.fundermax.at)



Option for installation of wash basins



Option for worktop joint



## Properties of Max Resistance<sup>2</sup>

Max Resistance<sup>2</sup> has many specific properties that make the panels perfect for use in laboratories, hospitals and applications where a higher resistance is required.



Substance	Rating	0 No effect	1 Excellent	2 Good	3 Fair	4 Failure
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### Acids

Acetic Acid 99%	●					
Acid Dichromate 5% <sup>2)</sup>	●					
Chromic Acid 60%	●					
Formic Acid 90% <sup>2)</sup>	●					
Hydrochloric Acid 37%	●					
Hydrofluoric Acid 48%			●			
Nitric Acid 20%	●					
Nitric Acid 30%	●					
Nitric Acid 70% <sup>1)</sup>	●					
Phosphoric Acid 85%	●					
Sulphuric Acid 33%	●					
Sulphuric Acid 77%	●					
Sulphuric Acid 96%			●			
Sulphuric Acid 77 : Nitric Acid 70% (1:1)				●		

### Bases

Ammonium Hydroxide 28%	●					
Sodium Hydroxide 10%	●					
Sodium Hydroxide 20%	●					
Sodium Hydroxide 40%	●					
Sodium Hydroxide Flake	●					

### Salts and Halogens

Saturated Zinc Chloride	●					
Silver Nitrate Saturated	●					
Tincture of Iodine <sup>1)</sup>			●			

Test results may differ per color.

<sup>1)</sup> result on 0082

<sup>2)</sup> result on 0085

Substance	Rating	0 No effect	1 Excellent	2 Good	3 Fair	4 Failure
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### Organic Chemicals

Cresol	●					
Dimethylformamide	●					
Formaldehyde 37%	●					
Furfural <sup>1)</sup>			●			
Gasoline	●					
Hydrogen Peroxide 30% <sup>2)</sup>	●					
Hydrogen Peroxide 3%	●					
Phenol 90%			●			
Sodium Sulfide Saturated	●					

### Solvents

Acetone <sup>2)</sup>	●					
Amyl Acetate	●					
Benzene	●					
Butyl Alcohol	●					
Carbon Tetrachloride	●					
Chloroform <sup>2)</sup>	●					
Dichlor Acetic Acid <sup>2)</sup>			●			
Dioxane	●					
Diethyl Ether	●					
Ethylacetate <sup>1)</sup>	●					
Ethylalcohol	●					
Methylalcohol	●					
Methylene Chloride	●					
Methylethylketone	●					
Mono Chlorobenzene	●					
Napthelene	●					
Toluene	●					
Trichloroethylene	●					
Xylene <sup>1)</sup>	●					

**Test Procedure:** The chemical Resistance tests were performed in a SEFA certified Laboratory according to the **Test Method:** SEFA 3-2010 Sec 2.1. (24h EXPOSURE) Detailed Information and results are available in the official Test reports.

**Results:** FunderMax Resistance<sup>2</sup> passed the SEFA 24h Exposure Test and is therefore suitable and recommended for Laboratory - worktops. FunderMax Resistance<sup>2</sup> exceeds the SEFA test criteria by far with not one single Level 3 or 4 rating.

**Rating:**

- 0 – No Effect** – No detectable change in the material surface.
- 1 – Excellent** – Slight detectable change in color or gloss but no change in function or life of the surface.
- 2 – Good** – A clearly discernible change in color or gloss but no significant impairment of surface life or function.
- 3 – Fair** – Objectionable change in appearance due to discoloration or etch, possibly resulting in deterioration of function over an extended period of time.
- 4 – Failure** – Severe staining, deterioration, pitting, cratering or etching. Material is NOT suitable for Laboratory application.

**Acceptance Criteria:**

Laboratory Grade work surface finishes shall result in no more than 4 Level 3 conditions. And no Level 4 (Failures).

## Properties of Max Resistance<sup>2</sup>

Properties tested in acc. to EN 438-2	Standard requirement	Max Compact Max Resistance <sup>2</sup>
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### Physical data

Apparent density DIN 52350/ISO 1183	≥ 1,35 g/cm <sup>3</sup>	≥ 1,4 g/cm <sup>3</sup>
Thickness (e.g.) EN 438-2, point 5	mm	10
Weight	kg/m <sup>2</sup>	14,0

### Mechanical properties

Resistance against stress abrasion EN 438-2, point 10	≥ 350 U	450 U
Falling ball impact resistance EN 438-2, point 21	≤ 10 mm	8 mm
Resistance against scratching EN 438-2, point 25	≥ 3 degr. ≥ 4N	4 degr. 6N
Flexural strength EN ISO 178	≥ 80 MPa	100 MPa
E-Modulus EN ISO 178	≥ 9000 MPa	10000 MPa
Tensile strength EN ISO 527-2	≥ 60 MPa	60 MPa

Properties tested in acc. to EN 438-2	Standard requirement	Max Compact Max Resistance <sup>2</sup>
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### Thermal properties

Dimensional changes during climatic changes, measured at elevated temperatures EN 438-2, point 17	≤ 0,30 length ≤ 0,60 cross	0,05 length 0,15 cross
Resistance to boiling water EN 438-2, point 12	≤ 2%	0,3%
Coefficient of thermal expansion DIN 52328	1/K	20 x 10 <sup>-6</sup>
Resistance to hot soucepans EN 438-2, point 16	4-5 [Degree]	5 no visible changes, no blisters or cracks <sup>2)</sup>
Resistance to staining EN 438-2, point 26 (group 1-3)	4-5 [Degree]	5 no visible changes, no blisters or cracks <sup>2)</sup>

### Optical properties

Light fastness no. EN 438-2, pt. 27	≥ 4 [Level]	4 or 5
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## Max Resistance<sup>2</sup> Sustainable manufacturing

FUNDERMAX®

- FSC
- green electricity
- environmental product declaration



### Environmentally friendly production

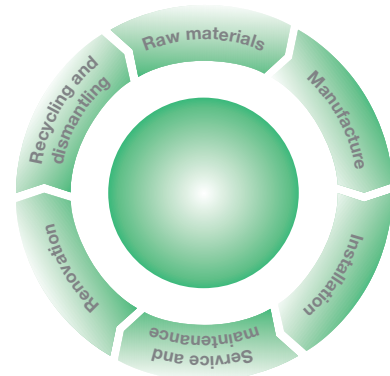
The kraft paper is impregnated with resin on impregnating lines, dried, and pressed at high pressure into durable, moisture-resistant panels. The exhaust air from the drying process is treated by regenerative thermal oxidation, in which heat produced thereby is redirected back into the process. At the FunderMax manufacturing site, around 10,000 tons of CO<sub>2</sub> can be reduced annually.

Production drop-offs are energetically utilized in our green electricity district heating power stations. FunderMax supplies district heating to over 3000 households.



### Natural materials

Max Resistance<sup>2</sup> panels are primarily made of wood that is processed into "kraft paper." The wood accumulates as a byproduct during logging or in sawmills. We procure these raw materials from suppliers who are certified according to the FSC or PEFC standards. These standards confirm that the logging occurs in accordance with internationally valid rules for sustainable forestry.



### Available through:

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Fax: +33 (0) 4 78 85 18 56  
infofrance@fundermax.at  
www.fundermax.at

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E-08210 Barberà del Vallès  
(Barcelona)  
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Fax: +34 93 729 63 46  
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www.fundermax.es

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