



FUNDERMAX®

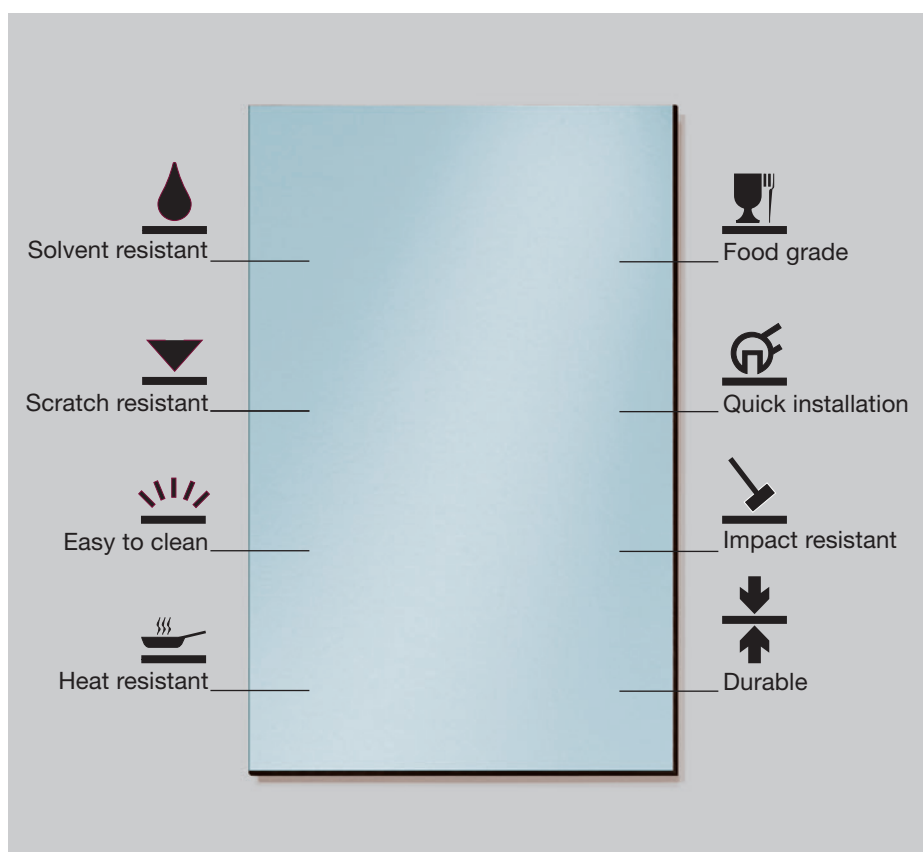
**Max Resistance.
Compact Laminate
for extreme demands.**

interior

**for
people
who
create**

Max Resistance offers resistance in the laboratory

No experiments! 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.



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

Additional benefits

Max Resistance is both dye-resistant and highly mechanical resistance. If you know the heart of the matter, you will immediately understand why. Max Resistance consists of approved and tested raw materials, compressed under immense heat and pressure they emerge as a unique, homogeneous panel.

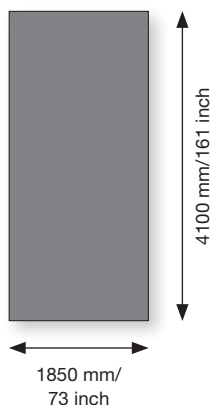
Manufactured without joints and fully enclosed it is therefore permanently resistant against moisture penetration.

Formats

4100 x 1850 mm (161 x 73 inch)

Thickness: 6 - 20 mm (~1/4 - 3/4 inch)

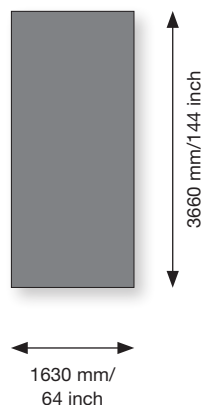
Surface finishes: RE and FH



3660 x 1630 mm (44 x 64 inch)

Thickness: 6 - 25 mm (~1/4 - 1 inch)

Surface finishes: RA and AL



Max Resistance

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

Surfaces

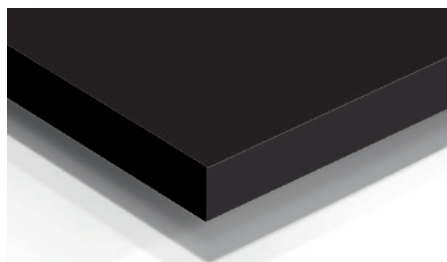
RE or RA: where extreme chemical resistance is needed.

FH or AL: for other furniture and tops applications.

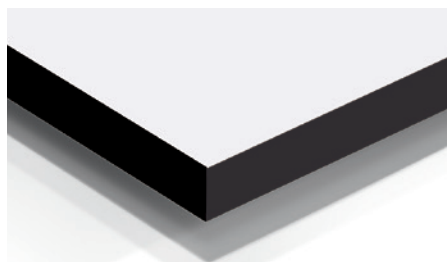
Collection Max Resistance

Takes a lot of punishment. Due to a doubly cured and highly crosslinked urethane acrylic coating, Max Resistance is resistant against chemicals, dyestuffs, solvents and has a particularly long serviceable life.

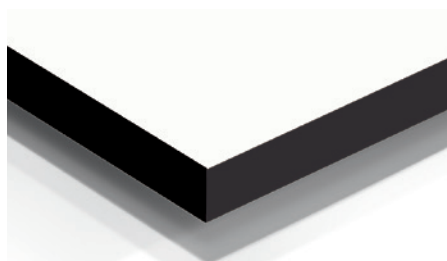
Colour variations from the original decors are caused by the technical limitations of the printing process. Please ask always for original samples.



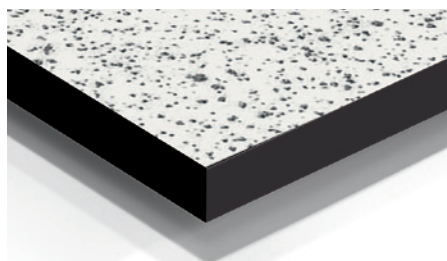
0082 RE Deep Black



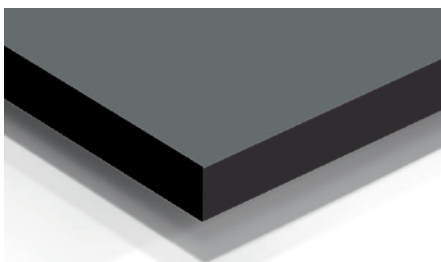
0606 RE Arctic White



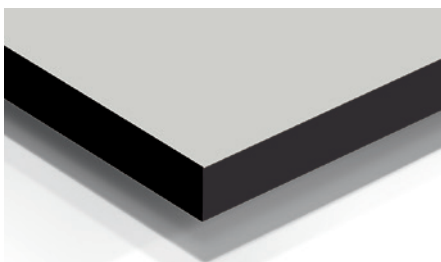
0085 RE White



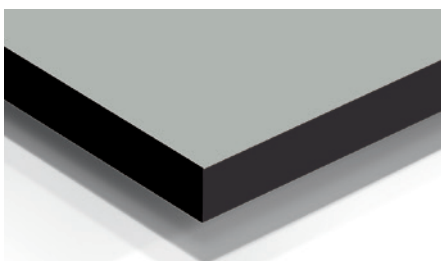
0558 RE White Punto



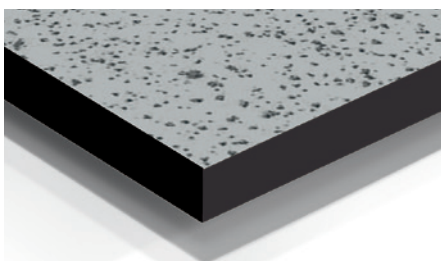
0075 RE Dark Grey



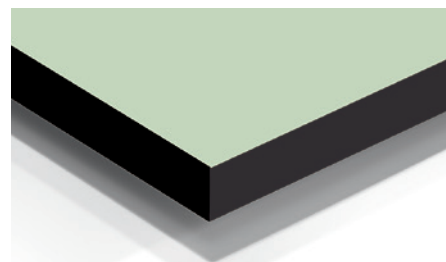
0741 RE Birch Grey



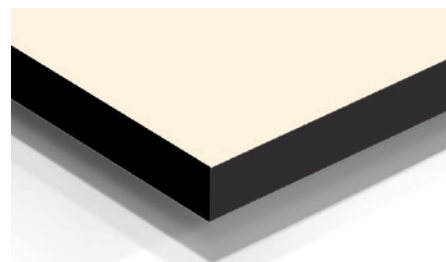
0074 RE Pastel Grey



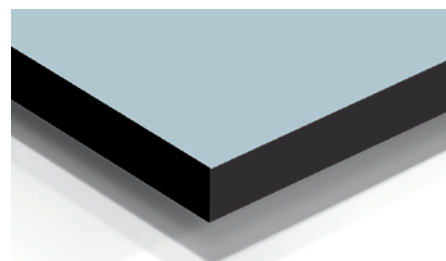
0559 RE Pastel Grey Punto



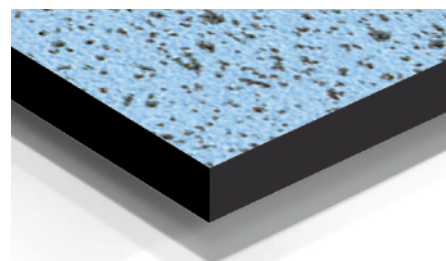
0663 RE Reseda Green



0851 RE Winter White



0706 RE Glacier Blue



3361 RE Arctic Punto

More decors available

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



Max Resistance

All panels come with decors on both sides and with RE surface finish (RA depending on format). Foil on both sides for maximum transport protection.

On request also available in F-quality!

Properties of Max Resistance

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

Substance	Concentration	White	Pastel Grey
24-hr-Test Resistance against chemicals		Assessment/Classification*	
Hydrochloric acid	37%	5	5
Sulphuric acid	97%	5	5
Nitric acid	65%	2	2
Phosphoric acid	85%	5	5
Aqua regia		3	3
Acetic acid	98%	5	5
Sodium hydroxide-solution	20%	5	5
Silver nitrate	10%	3	3
Formic acid	98%	5	4
Potassium iodide-solution	10%	4	4
Iodine solid state		3	3
Methyl red alk	1%	5	5
Hydrofluoric acid	40%	5	3
H ₂ O ₂	30%	5	5
Chromic acid cleaning mixture		5	5
KMnO ₄	10%	5	5
Iron (III) chloride	10%	4	4
Copper sulphate	10%	5	5
Sodium hypochlorite	13%	5	5
24-hr-Test Stain-intensivity with dyestuff contact			
Acridine orange	1%	5	5
Fuchsin	1%	5	5
Carbolic-Fuchsin	1%	3	5
Melachite green-oxalate	1%	5	5
Methylene blue	1%	4	4
Methylene violet 2B	1%	5	5
Wright's stain	1%	5	5
Gentian violet	1%	5	5
24-hr-Test Resistance against disinfecting agent			
Ethanol	70%	5	5
Formalin	5%	5	5
p-Chloro-m-cresol	0,3%	5	5
Chloramine T	5%	5	5
Alkyl-DMB-AC-BC	0,1%	5	5
24-hr-Test Resistance against solvents			
Acetone		5	5
Ethanol		5	5
n-Butylacetate		5	5
Toluene		5	5
Trichloroethene		5	5
Hexane		5	5
THF		5	5

* Assessment scale:

Classification 5.....no visible change

Classification 4.....slight change in degree of lustre and/or colour, only visible from certain points of view

Classification 3.....moderate change in degree of lustre and/or colour

Classification 2.....significant change in degree of lustre and/or colour

Classification 1.....surface damage and/or formation of blistering

Slight deviations in the assessment are possible among the various colours.

No guarantee can be derived from the tested values for the resistance of the surface against other chemicals, dyestuffs, solvents and disinfecting agents, combinations of various chemicals and the effect under intensified conditions (e.g. increased temperature, prolonged reaction periods). In this case it is recommended to carry out your own tests.

Properties tested in acc. to EN 438-2	Unit of measurement	Max Compact Max Resistance
Physical data		
Apparent density DIN 52350/ISO 1183	g/cm ³	≥ 1,4
Thickness (e.g.) EN 438-2, point 5	mm	10
Weight	kg/m ²	14,0
Mechanical properties		
Resistance against stress abrasion EN 438-2, point 10	U	450
Falling ball impact resistance EN 438-2, point 21	mm	8
Resistance against scratching EN 438-2, point 25	degr./scratch r.	3 4N
Flexural strength EN ISO 178	MPa	100
E-Modulus EN ISO 178	MPa	10000
Tensile strength EN ISO 527-2	MPa	60
Susceptibility to cracking EN 438-2, point 24		5
Thermal properties		
Dimensional changes during climatic changes, measured at elevated temperatures EN 438-2, point 17	length. cross.	0,05 0,15
Resistance to boiling water EN 438-2, point 12	%	0,3
Coefficient of thermal expansion DIN 52328	1/K	20 x 10 ⁻⁶
Thermal conductivity I	W/mK	ca. 0,3
Resistance to vapour diffusion		17.200
Surface resistance DIN 53482	Ohm	10 ⁹ -10 ¹¹
Resistance to cigarette burns EN 438-2, point 30	Degree	no visible changes ¹⁾
Resistance to hot soucepans EN 438-2, point 16	Degree	no visible changes, no blisters or cracks ²⁾
Heating value	MJ/kg	18 - 20
Optical properties		
Light fastness no. EN 438-2, pt. 27	Level	6 - 8

¹⁾ Slight change in glossy finish, yellow or light brown colours are permitted by EN 438.

²⁾ Slight change in glossy finish are permitted by EN 438.



Max Resistance. Sustainable manufacturing of FunderMax.

Through the installation of an efficient exhaust air handling system, FunderMax were recognised by the Austrian Energy Agency and the Federal Ministry (Environment), achieving the “Klima:aktiv” Best Practice award.



Environmentally friendly production

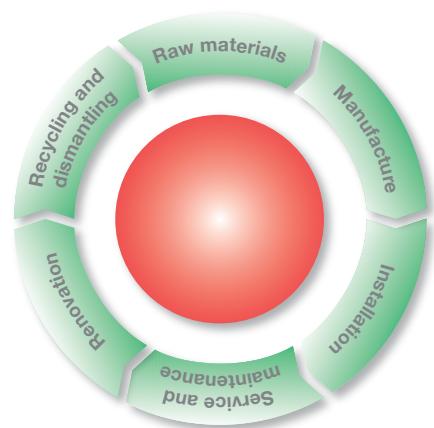
The kraft paper is impregnated with resin on impregnating lines, dried, and pressed at high pressure into durable, moisture-resistant panels. The exhaust air from the drying process is treated by regenerative thermal oxidation, in which heat produced thereby is redirected back into the process.

At the FunderMax manufacturing site, around 10,000 tons of CO₂ can be reduced annually.



Natural materials

Max Resistance 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.



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The mark of
responsible forestry

ISO 9001

ISO 14001

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