

Interior 2.3

L

A

B



For you to create

For environments
that demand
perfection.

L A B
Fundermax

Disclaimer

The information provided in this document is for general informational purposes only. Not all systems mentioned and described in this document are suitable or appropriate for all applications and areas. All customers and third parties are required to obtain detailed information about Fundermax products and their suitability for specific purposes. We also strongly recommend that you and all other users of this document seek independent professional advice regarding compliance with local planning and application requirements, applicable laws, regulations, standards, guidelines, and testing standards.

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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, Norway and the Netherlands
- around 1,500 employees
- part of Constantia Industries AG
- Integrated management system certified according to ISO standards: 9001 quality, 14001 environment, 50001 energy efficiency, 45001 occupational health and safety
- FSC, PEFC and SURE certified





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Fundermax LAB products



Reference CTI
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For environments that demand perfection.

There are spaces where the highest standards apply to materials and function: laboratories, hospitals, clean rooms, and more. Here, every decision counts — the right material and first-class quality. Our products meet these requirements with the utmost precision: extremely durable, long-lasting, dimensionally stable, and easy to clean. With our range, we go one step further and combine uncompromising function with impressive design power.

Worktops, vertical surfaces, furniture, or decorative elements — everything can be combined, customized, and realized with a wide range of decors and exclusive individual printing. The result is environments that not only meet the highest quality standards, but also inspire and delight.



Reference CTI
© High Identity Buildings

The uncompromising one.
When only the best counts!

Max Resistance²

Max Resistance² is the perfect choice for laboratory work surfaces where only the best will do. The unique RE surface technology combines extreme chemical resistance, outstanding stability, a long service life, and easy cleaning – ideal for the toughest laboratory conditions. In addition, Max Resistance² significantly exceeds the requirements of the SEFA3 standard for chemical-resistant horizontal laboratory surfaces.





The durable one.
For all areas of application
that demand 'more'.

Max Compact Interior Plus

Max Compact Interior Plus is the surface with the added bonus: it meets the highest hygiene and cleaning requirements with a specially integrated, double-hardened, non-porous polyurethane acrylate layer. The high-pressure laminate (HPL) according to EN 438, type CGS complies with the SEFA8 standard for vertical surfaces and is ideal for use in areas with intensive cleaning and hygiene requirements, such as laboratories, clean rooms, hospitals, and medical facilities.



The versatile one.
For everything you need.

Max Compact Interior

Max Compact Interior impresses with its exceptional versatility and the highest quality standards. Whether for furniture, decorative applications, or wall coverings, the high-pressure laminate (HPL) is robust, acid-resistant, and permanently moisture-resistant. Design freedom without limits – with currently 213 decors from the Interior 2.3 Essential collection and the option of individual printing, Max Compact Interior allows you to design environments that are stylish, functional, and unique.

Design freedom & individual printing

**Your lab.
Your rules.
Your design.**

Laboratories must meet the highest standards – but that doesn't mean they have to be monotonous or colourless. **Design is crucial** in creating spaces that are not only functional, but also inspiring and unique. This allows laboratories to combine efficiency, safety, and aesthetics all at once.

With **16 standard** decors for Max Resistance² and over **200 decors from the current Exterior 2.3 | Essential and Interior 2.3 | Essential collection** for Max Compact Interior Plus and Max Compact Interior, you have access to timeless classics as well as expressive accents – everything you need to perfectly combine functionality and aesthetics.

Our **individual printing** opens up even more freedom: it allows you to transform any surface into a real statement. Whether on individual panels or across multiple panels, with Max HPL and Max Compact you can design colours, patterns, and creative concepts exactly according to your ideas.

This creates new space – with the highest standards and your personal signature: lively, unique and distinctive.

This is where science meets design – a laboratory that inspires!



Contact:

Please feel free to contact us at:
individual.druck@fundermax.biz



Sustainable. Responsible. Forward-thinking.

We perfect what nature gives us

Based on our ecological roots, we are shaping a sustainable future and are committed to sustainability in our corporate principles.

Our environmental and energy policy is reflected in five key areas of action in the Fundermax Green Deal and is part of our sustainability compass for environment, social and governance (ESG).



Sustainability brochure

This, and much more, makes Fundermax a sustainable company with its sights firmly set on the future.

Find out more in our sustainability brochure by scanning this QR code.



100 %

The kraft paper in our Interior Compact panels with a black core is sustainable, as it is made from 100% recycled paper. This allows us to use natural resources for as long as possible and protect the environment.

The five areas of action of the Fundermax Green Deal at a glance:



Corporate responsibility

Integrated management system
certified according to ISO standards

9001 Quality, 14001 Environment, 50001 Energy
efficiency, 45001 Occupational health and safety



Effective climate protection

Reduction of fossil fuel
CO₂ emissions by 50 %



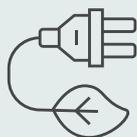
Products from nature

Wood and paper sourced
100% from certified sustainably
managed forests



Environmentally friendly production

Resource conservation
through circular economy

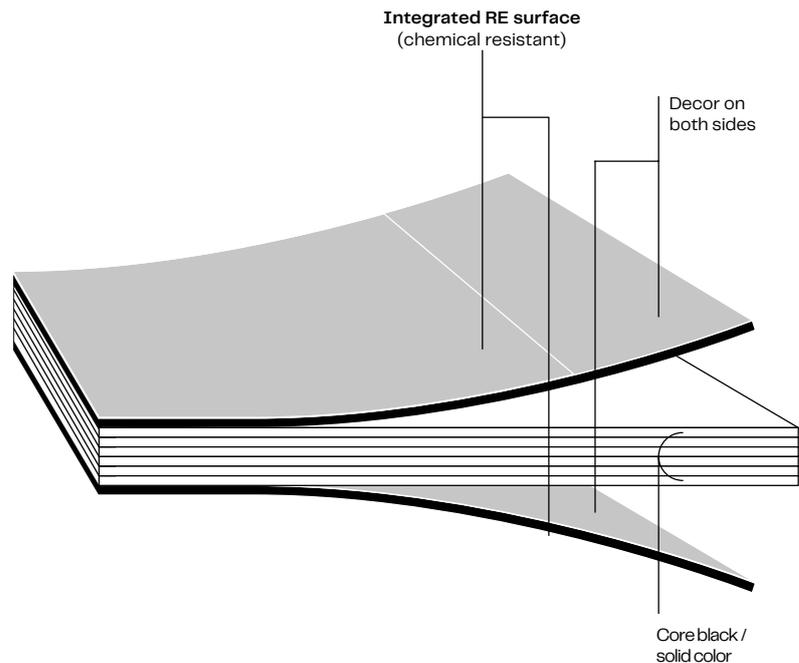


Sustainable energy

Efficient use of green electricity
and green heat for production

Max Resistance²

Max Resistance² structure



High-performance HPL for the most demanding requirements

Max Resistance² is a thermosetting **high-pressure laminate (HPL)** in accordance with EN 438-4, type CGS, SEFA3, which is manufactured under high pressure and high temperature in laminate presses. The double-hardened surface made of specially developed polyurethane-acrylic resin provides reliable protection against aggressive chemicals and solvents. At the same time, it is scratch-resistant, easy to clean, and can be disinfected—for a significantly longer service life of your laboratory equipment.

No scratches. No germs. No compromises.

The tested raw materials are processed under extreme pressure and temperature to **form homogeneous**, decorative panels. The uniform structure in the core and the closed surface make Max Resistance² **permanently resistant to moisture, chemicals, and mechanical stress** – ideal for the highest hygiene requirements.

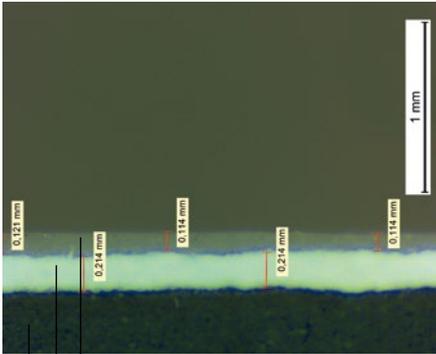


Patented surface technology

Max Resistance² exclusively uses **RE technology** developed by Fundermax. It treats the surface of the panels on **both sides**, resulting in significantly higher chemical and mechanical resistance than conventional ESH or melamine technologies.

Thanks to its **higher scratch and impact resistance and improved acid resistance**, Max Resistance² sets new standards for laboratory surfaces and significantly extends the service life of laboratory furniture.

Fundermax RE-Technology



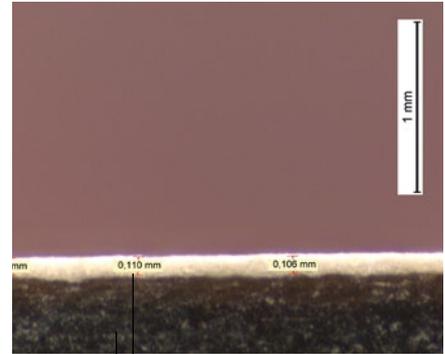
- Extra thick double-hardened urethane-acrylic surface
- Extra thick decor layer
- HPL core (Jet-black, phenol impregnated Kraft paper)

EBC-Technology



- Electron beam cured (EBC) acrylic surface
- Decor layer
- Fibre or HPL core

Melamine-Technology



- Melamine decor surface
- HPL core

RE-surface



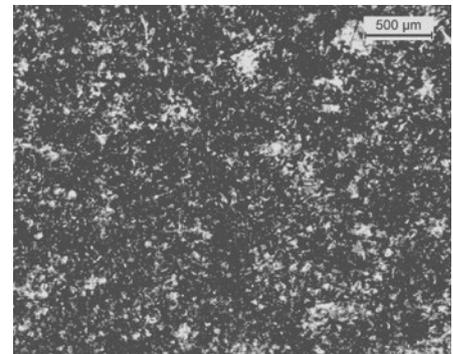
No micro-pores visible

EBC-surface



Micro-pores visible

Melamine-surface



Pores visible

Chemically and mechanically resistant – ready to handle anything

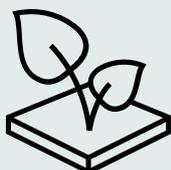
Thanks to patented RE technology, Max Resistance² impresses not only with its chemical resistance, but also with its exceptional mechanical robustness.

- **20% higher scratch resistance** than ESH surfaces
- **3 times higher** abrasion resistance
- **Excellent flexural strength** and dimensional stability

This combination makes Max Resistance² extremely resilient and permanently reliable – with a 10-year warranty on these proven properties.

Properties according to EN 438-2	standard requirements	Max Resistance ²
Physical data		
Density DIN 52350/ISO 1183	≈ 1.35 g/cm ³ (=0.049 lb/inch ³)	≈ 1.35 g/cm ³ (=0.049 lb/inch ³)
Thickness (e.g.) EN 438-2, Punkt 5		10 mm (=0.39")
Basis weight		13.5 kg/m ² (=2.77 lb/sqf)
Mechanical properties		
Resistance to surface abrasion EN 438-2, (Initial Point) Point 10	≈ 150 U	450 U ¹⁾
Resistance to impact stress EN 438-2, point 21	≤ 10 mm (=0.39")	5-6 mm ²⁾ (=0,197" - 0,236")
Scratch resistance EN 438-2, point 25	Grad ≥ 3; (≥ 4 N)	Grad 4; (6 N) ²⁾
Flexural strength EN ISO 178	≈ 80 MPa	≈ 80 MPa
E-Modul EN ISO 178	≈ 9000 MPa	≈ 9000 MPa
Thermal properties		
Dimensional stability at elevated temperatures and humidity changes EN 438-2, point 17	≤ 0.30 Length ≤ 0.60 Width	0.15 Length 0.3 Width
Thermal expansion coefficient DIN 52328		20 x 10 ⁻⁶ K ⁻¹
Resistance to dry heat EN 438-2, point 16	Grade 4-5	Grade 4-5
Stain resistance EN 438-2, point 26 (groups 1-3)	Grade 4-5	Grade 5 No change
Optical properties		
Lightfastness EN 438-2, point 27	Gray scale ≈ 4	Gray scale 4 or 5
Surface resistance		10 ⁹ – 10 ¹² Ohm

¹⁾ 450 U for all Uni decors, 150 U for Punto decors ²⁾ Typical value



Sustainable & Resource-efficient

Max Resistance² is not only powerful, but also **sustainable**. Its exceptional durability reduces the need for frequent replacements, minimizes **resource consumption**, and thus contributes to reducing the **ecological footprint**. An investment in Max Resistance² is an investment in a **sustainable working environment**.

Perfect disinfectability – safe for the highest hygiene requirements

The **non-porous surface** of Max Resistance² can be **easily and reliably** disinfected and inhibits the growth of bacteria, with a disinfectability over 99.99%.

Tests with aggressive germs such as Staphylococcus aureus and Escherichia coli show that the surface of Max Resistance² can be disinfected just as **effectively as surgical tiles or stainless steel tiles**. Further surface tests confirm that Max Resistance² has no microporosity compared to other materials – bacteria therefore have no chance.

Your advantages at a glance

- Prevents bacterial growth
- Durable, highly resistant surface
- Excellent cleanability
- No discoloration or surface damage



Ideal for all laboratories

Max Resistance² is the surface for:

- Research laboratories, hospitals, and hygiene areas
- Petrochemicals, biochemistry, food, and pharmaceutical industries
- Anywhere where absolute cleanliness, mechanical stability, and chemical resistance are required

The best in its class

Max Resistance² not only meets the requirements of the SEFA3 standard for chemical resistance of horizontal laboratory surfaces – it significantly exceeds them.

Unique: Even aggressive substances such as hydrofluoric acid or highly concentrated sulfuric acid leave no damage on the surface.

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

Acetic Acid 99%	●				
Dichromate Acid 5% ²⁾	●				
Chromic Acid 60%	●				
Formic Acid 90% ²⁾	●				
Hydrochloric Acid 37%	●				
Hydrofluoric Acid 48%			●		
Nitric Acid 20%	●				
Nitric Acid 30%	●				
Nitric Acid 70% ²⁾				●	
Phosphoric Acid 85%	●				
Sulfuric Acid 33%	●				
Sulfuric Acid 77%	●				
Sulfuric Acid 96%			●		
Sulfuric 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	●				
Saturated Silver Nitrate	●				
Tincture of Iodine ¹⁾			●		

Testresultate können je nach Dekor abweichen

¹⁾ Resultate für 0082 Tiefschwarz

²⁾ Resultate für 0085 Weiss

Rating

0 – No Effect – No detectable change in the material surface.

1 – Excellent – Slight detectable change in colour or gloss but no change in function or life of the surface.

2 – Good – A clearly discernible change in colour or gloss but no significant impairment of surface life or function.

3 – Fair – Objectionable change in appearance due to discolouration or etch, possibly resulting in deterioration of function over an extended period of time.

Acceptance criteria

To be approved as laboratory grade surfaces, tested materials should receive no more than four Level 3 ratings.

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

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

Solvents

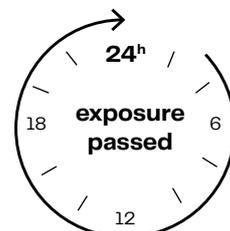
Acetone ²⁾	●				
Amyl Acetate	●				
Benzene	●				
Butyl Alcohol	●				
Carbon Tetrachloride	●				
Chloroform ²⁾	●				
Dichloroacetic Acid ²⁾			●		
Dioxane	●				
Diethyl Ether	●				
Ethyl Acetate ¹⁾	●				
Ethyl Alcohol	●				
Methyl Alcohol	●				
Methylene Chloride	●				
Methyl Ethyl Ketone	●				
Monochlorobenzene	●				
Napthalene	●				
Toluene	●				
Trichloroethylene	●				
Xylene ¹⁾	●				

Test procedure

The chemical resistance tests were performed in a SEFA certified laboratory according to the Test Method: SEFA 3–2010 Sec 2.1. (24hr Exposure) Detailed information and results are available in the test reports.

Results

Max Resistance² passed the SEFA 24h Exposure Test and is therefore suitable and recommended for laboratory worktops. Max Resistance² exceeds the SEFA test criteria by far without one single Level 3 rating.



Max Resistance² – the best choice when every detail counts!

Discover at a glance why Max Resistance² is the best choice for architects, planners, fabricators, and users:

Architects	Design variety:	Various decors and surface textures for modern, aesthetic laboratory and interior designs.
	Sustainability & Circular economy:	Core made from 100% recycled paper, reduced ecological footprint.
	Hygiene & ease of care:	Non-porous surface ideal for laboratories, sensitive areas, and medical facilities.
Plans	Durability & robustness:	Three times higher abrasion resistance, approx. 20% higher impact resistance, minimizes repairs and replacement requirements.
	Flexibility:	Different panel thicknesses and lengths for individual planning.
	Consistent quality:	Dimensionally stable HPL panels with a homogeneous structure and uniform colouring for reliable planning results.
Processor	First-class workability	Easy to process, easy to install, abrasion and scratch resistant.
	Robust & resistant:	Impact resistant, cold shock resistant, heat resistant up to 180°C/360°F, chemically resistant.
	Easy to care for:	Easy to clean, antistatic, moisture-resistant, perfectly disinfectable.
	Can be used on both sides:	The reverse side can be used if damaged, reducing waste and effort.
User	Hygienic & safe:	Non-porous surface prevents germ accumulation, ideal for laboratories, medical facilities, or catering.
	Durability & robustness:	High abrasion and impact resistance ensures less damage in daily use.
	Comfortable to use:	Easy-care, scratch- and chemical-resistant surface facilitates daily work.



Moisture resistant



Food safe



Heat resistant up to 360°F



Perfectly disinfectable



Durable



First-class workability



Chemical resistance



Cold shock resistant



Can be used on both sides



Antistatic



Abrasion and scratch resistant



Easy to install



Impact resistant



Easy to clean



ALL-IN
SMART SOLUTIONS
GET YOUR PERFECT RESULTS

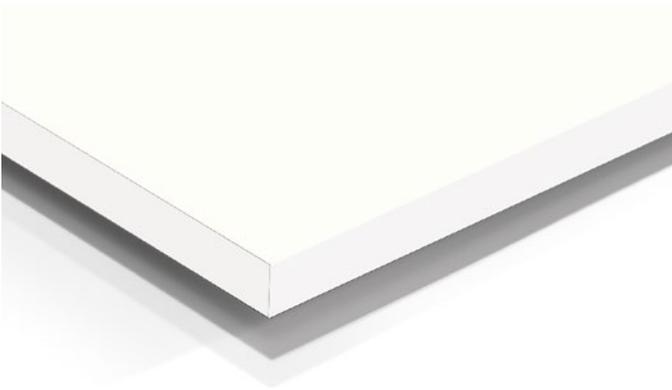
Design freedom included

Max Resistance² combines technical excellence with creative freedom. With a black or solid-coloured core, standard decors, and custom design options, laboratories can be designed to be functional, durable, and modern.

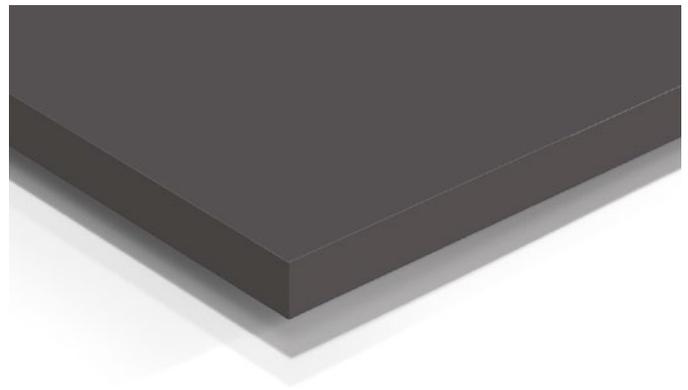
The double-sided, resistant decor ensures symmetry of the panels and maximum flexibility in use.

Colours, surfaces, and decors from the extensive Fundermax range enable laboratories that are both practical and aesthetically pleasing.

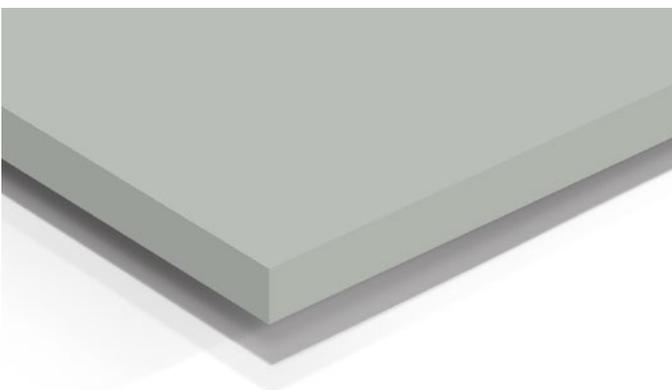
Max Resistance² Compact panels with solid-coloured core



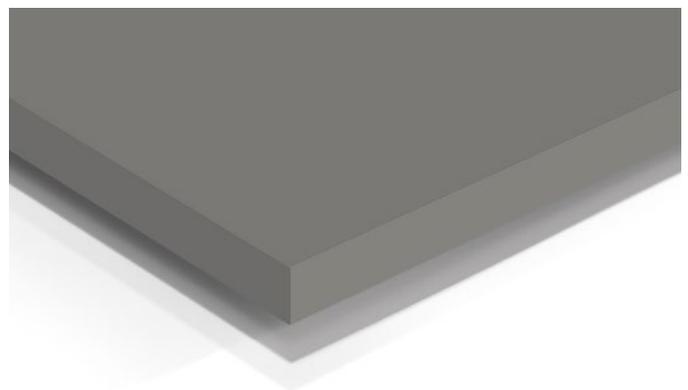
0085 White (with coloured through core)



0077 Charcoal (with coloured through core)



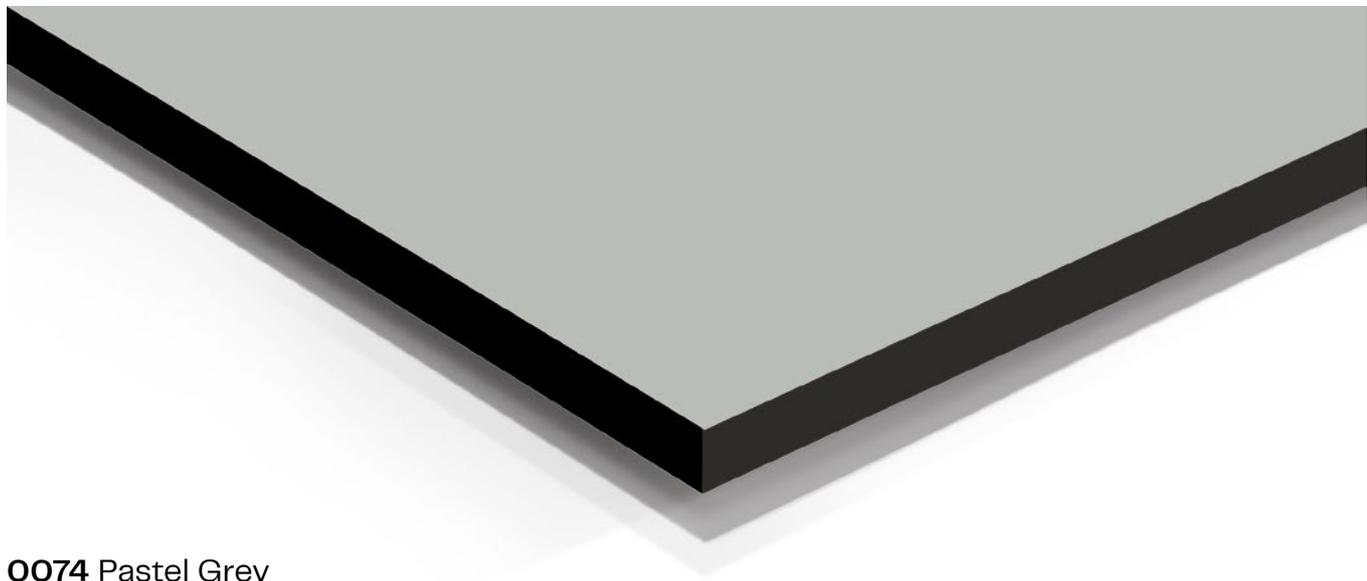
0074 Pastel Grey (with coloured through core)



2181 Volcano Grey (with coloured through core)

Max Resistance²

Compact panels with black core



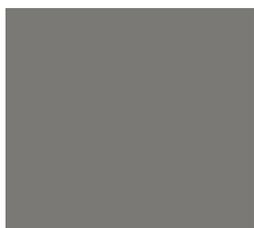
0074 Pastel Grey



0082 Deep Black



0077 Charcoal



2181 Volcano Grey



0753 Cool Grey
Medium



0075 Dark Grey



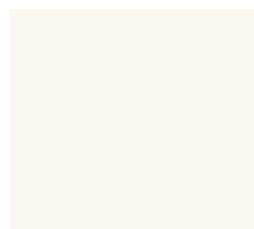
0592 Kiwi Green



0851 Winter White



0085 White



0606 Arctic White



0741 Birch Grey



0718 Arctic



0706 Glacier Blue



3361 Punto Arctic



0558 White Punto



0559 Pastel Grey
Punto

Max Compact Interior Plus

The surface with the plus.

Max Compact Interior Plus is the perfect choice for all areas where intensive cleaning and the highest hygiene standards are required. The double-hardened, non-porous polyurethane acrylic surface ensures that the panels are easy to clean, perfectly disinfectable, and extremely durable—even with daily, intensive use. This keeps the surfaces durable, hygienic, and visually flawless, even under the most demanding conditions.

Areas of application:

- Hospitals and medical facilities
- Healthcare and educational facilities
- Sanitary facilities in hotels
- Airports, train stations, and public transportation
- Industrial kitchens and food processing facilities

Maximum performance. Maximum flexibility. Maximum plus.

Physical Data	Test method	Actual value
Density	EN 438	≥ 1,35 g/cm ²
Optical properties	Test method	Actual value
Light-fastness (Greyscale)	EN 438	≥ 4
Water vapour diffusion resistance	EN 438	≥ 4
Mechanical properties	Test method	Actual value
Flexural strength	EN 438	≥ 80 MPa
Modulus of elasticity	EN 438	≥ 9000 MPa
Tensile strength	EN 438	≥ 60 MPa
Fire behaviour	EN 13501-1	on request in F-Quality B-s2, d0
Scratch resistance	EN 438	degree ≥ 4 N
Chemical resistance		not depending on colour (24 h Test) All solvents Hydrochloric acid 10% Phosphoric acid 10% Acetic 10% Sodium hypochlorite 13% Soda lye 25% Ammonia 25%



132 decors



With 132 decors from the current Exterior 2.3 | Essential collection, Max Compact Interior Plus offers a wide range of design options. Coloured cores, decorative surfaces, and combinations with other Fundermax products enable a consistent, aesthetic room concept that perfectly combines functionality and design. Max Compact Interior Plus stands for reliable quality, high hygiene standards, and modern design that meets the requirements of today and tomorrow!

Max Compact Interior

**For everything
you need to get
started.**

With Max Compact Interior, we don't just supply materials – we offer the highest quality, maximum durability, and creative freedom. **High-pressure laminate (HPL)** is robust and permanently moisture-resistant, perfectly suited to the requirements of heavily used interior spaces. With a wide range of decors and extensive surface options, you can create atmosphere, individuality, and style. Who says that heavily used rooms can't also be aesthetically pleasing?

No more gray hospitals, monotonous industrial kitchens, and gloomy laboratories! With Max Compact Interior, wall coverings, table tops, and other furniture surfaces become real eye-catchers – and the working environment becomes a place where people feel comfortable and enjoy working.

Made for durability. Made for design. Made for more.



213 decors

- 213 designs from the current Interior 2.3 | Essential collection
- Individual printing available – for creative, unique room concepts
- A wide range of decors for a positive atmosphere in every application area, from laboratories and kitchens to public spaces

Our laboratory world at a glance

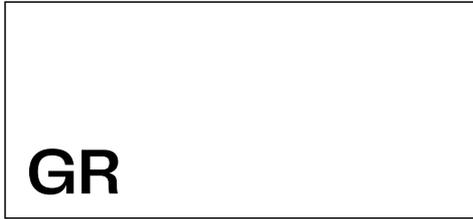
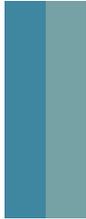
	Max Resistance ²	Max Compact Interior Plus	Max Compact Interior
Surface	RE	IP	FH, MT ¹⁾
Thickness	Black core: 6 mm – 20 mm (XL) 6 mm – 25 mm (SP, OF)	Black core: 6 – 15 mm (SP) 6 – 20 mm (XL, JU, GR, OF)	Black core: 6 – 20 mm (GR, SP, OF, JU, XL)
	Coloured through core: 13 mm – 20 mm (XL) 13 mm – 25 mm (OF)		Coloured through core: 6 – 15 mm (JU) 6 – 20 mm (XL, OF)
Range of decors	16 standard decors; others available on request	132 decors (Exterior 2.3 Essential Collection)	213 decors (Interior 2.3 Essential Collection)
Individualdecor		on request	✓
Chemical resistance of the surface	excellent	high	medium
Core	black, colour through	black	black, colour through
Impact resistance	very high	very high	very high
Scratch and abrasion resistance	excellent	very high	very high
General and wet chemistry	✓✓	✓	
Bio-chemistry and medical sector	✓✓	✓	
Petrochemical industry	✓✓	✓	
Pharma, food and beverage industries	✓✓	✓	
Technical work stations	✓✓	✓✓	✓
Application	✓✓	✓✓	✓✓
Application	Laboratory surfaces for research laboratories, hospitals, and hygiene areas, petrochemical and biochemical industries, food and pharmaceutical industries. Can be used where absolute cleanliness, mechanical stability, and chemical resistance are required.	Hospitals and medical facilities, health and educational institutions, sanitary facilities in hotels, airports, train stations, and public transportation, industrial kitchens and food processing facilities—can be used anywhere where intensive cleaning and hygiene requirements are necessary.	for wall coverings, table tops, and other furniture surfaces

✓✓ = Ideal ✓ = Suitable *limited decor palette

1) Feasible surfaces/format combination according to the product range.

NOTE: as surfaces RE, IP and FH have the same surface structure/finish, they can be combined perfectly. Slight variations in colour & appearance can occur. Max Resistance² decors are available across the range (with 100% compatibility).

Formats



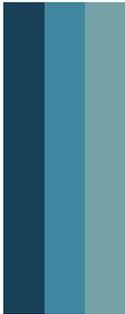
2.800 mm x 1.300 mm / 110.24" x 51.18"



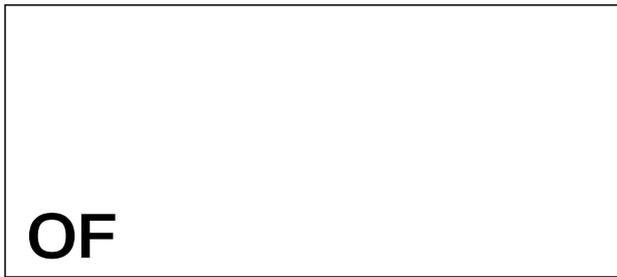
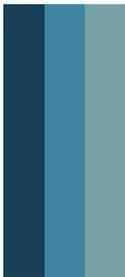
Max Resistance²

Max Compact Interior Plus

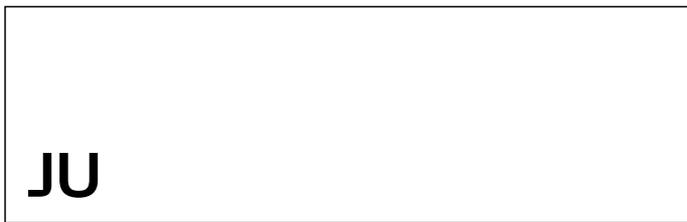
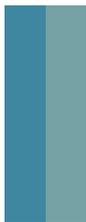
Max Compact Interior



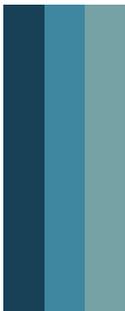
2.800 mm x 1.854 mm / 110.24" x 72.99"



3.670 mm x 1.630 mm / 144.49" x 64.17"



4.100 mm x 1.300 mm / 161.42" x 51.18"



4.100 mm x 1.854 mm / 161.42" x 72.99"

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