

www.fundermax.at
www.facebook.at/fundermax

for
people
who
create

Max Resistance²

Superficies para diseño de laboratorios duraderos

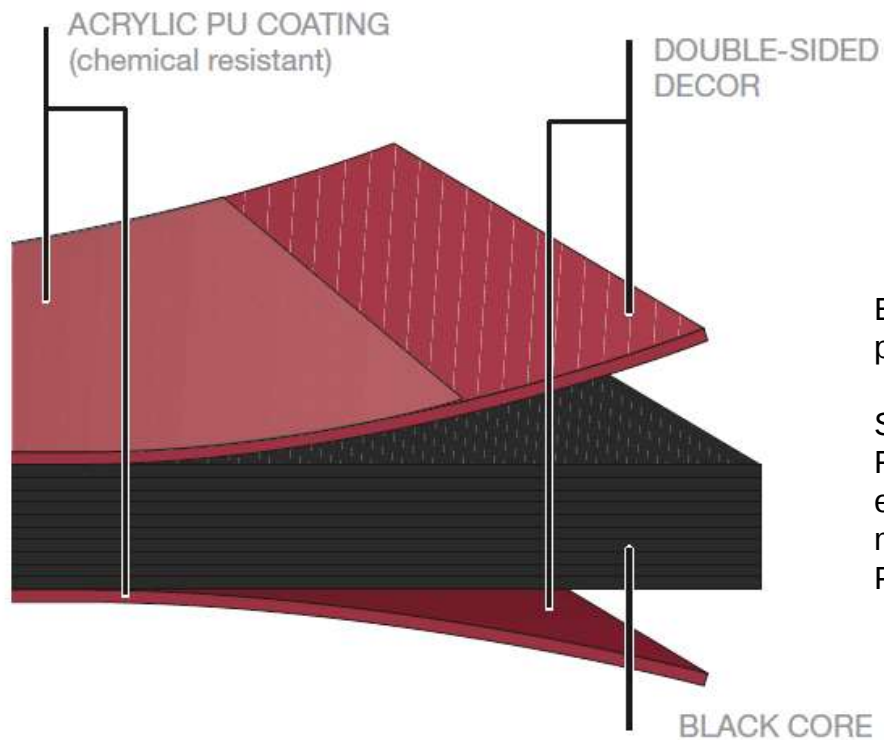


PRODUCTO

FUNDERMAX®



MAX RESISTANCE: PRODUCTO

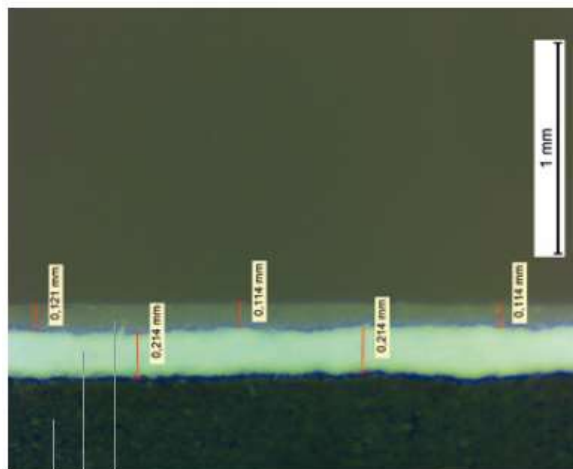


El núcleo HPL se compone de múltiples capas de papel Kraft impregnado con resina fenólica

Superficie:
Revestimiento integrado acrílico doble endurecido,
encima de 2 capas de decoración impregnada de
melamina.
Proceso de 2 pasos. Siempre doble cara.

PRODUCTO: TECNOLOGIA DE SUPERFICIE

FunderMax RE-Technology



EXTRA THICK DOUBLE-HARDENED
URETHANE-ACRYLIC SURFACE

EXTRA THICK DECOR LAYER

HPL-CORE (JET-BLACK, PHENOL
IMPREGNATED KRAFT PAPER)

EBC-Technology

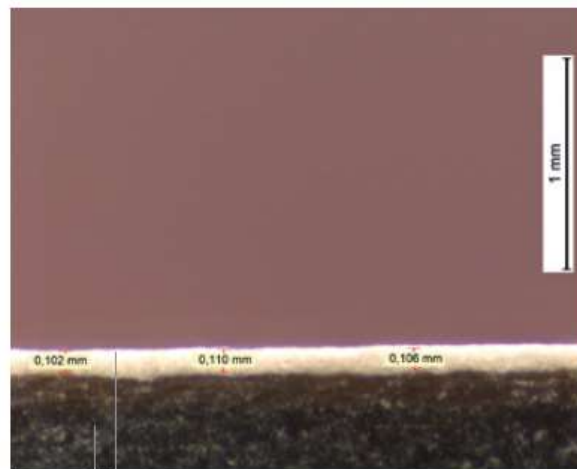


ELECTRONIC BEAM CURED (EBC)
ACRYLIC SURFACE

DECOR LAYER

FIBRE OR HPL CORE

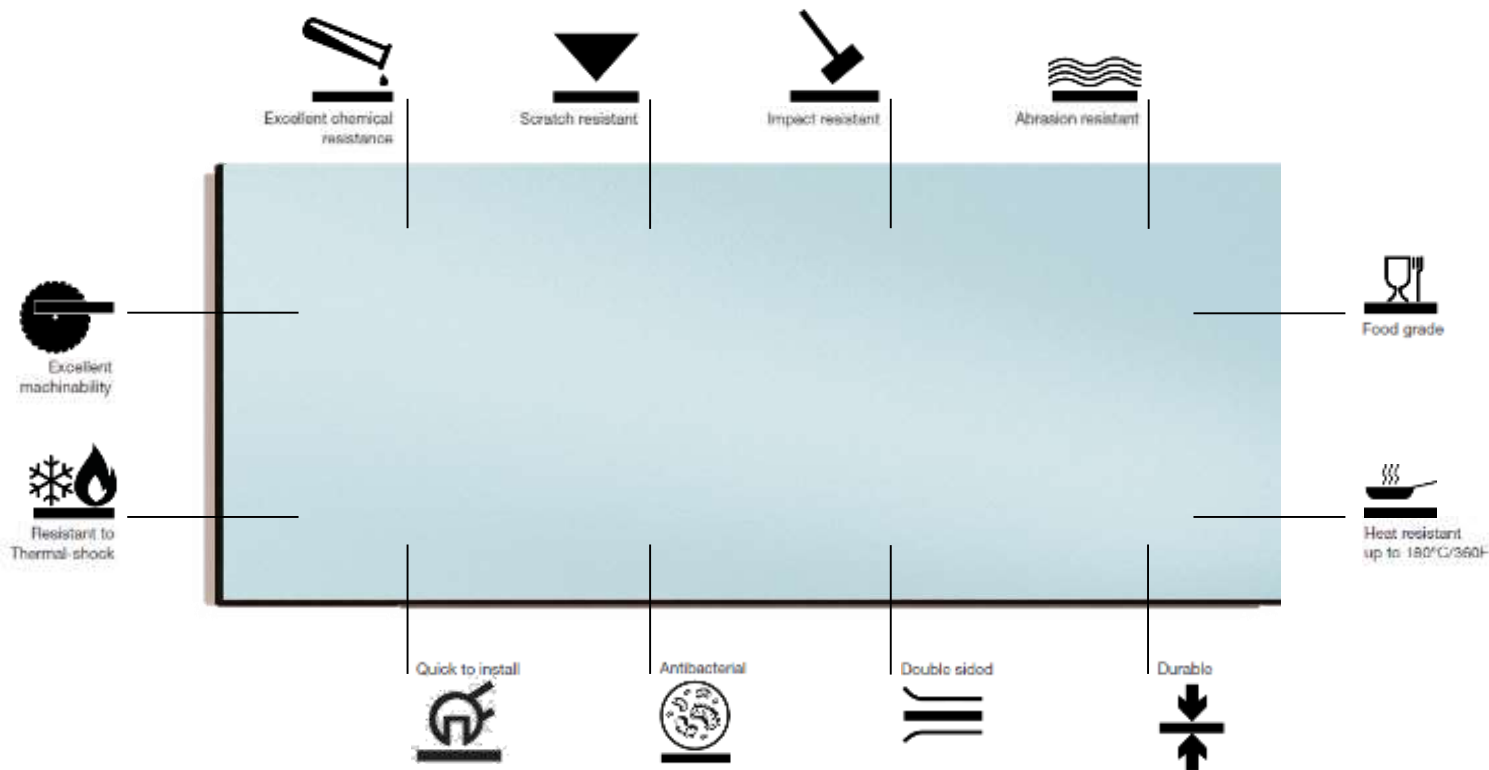
Melamine-Technology



MELAMINE DECOR SURFACE

HPL CORE

PRODUCTO: PROPIEDADES BASICAS



PRODUCTO: RESISTENCIA QUIMICA




Excellent chemical
resistance


Double sided

... even Hydrofluoric Acid & Nitric Acid

PRODUCTO: RESISTENCIA QUIMICA

PROCEDIMIENTO DE LOS TEST

Las pruebas de resistencia química se realizaron en un laboratorio certificado SEFA bajo el método de ensayo: SEFA 3-2010 Sec 2.1. (de 24 horas de EXPOSICIÓN) Toda la información y los resultados están disponibles en los informes oficiales de los Tests.

RESULTADOS

FunderMax Resistance² pasó la prueba de exposición SEFA 24 y es por lo tanto conveniente y recomendable para cubiertas de laboratorio. FunderMax Resistance² excede los criterios de prueba SEFA por amplio margen, sin obtener ningún 3 en las calificaciones.

PRODUCTO: RESISTENCIA QUIMICA



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.

ACCEPTANCE CRITERIA

To be approved as laboratory grade surfaces, tested materials should receive no more than 4 Level 3 ratings.



PRODUCTO: RESULTADOS DE RESISTENCIA QUIMICA

Rating	0	1	2	3
Substance	No effect	Excellent	Good	Fair

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% ¹⁾	●			
Phosphoric Acid 85%	●			
Sulphuric Acid 33%	●			
Sulphuric Acid 77%	●			
Sulphuric Acid 96%		●		
Sulphuric Acid 77 % Nitric Acid 70% (1:1)			●	

Rating	0	1	2	3
Substance	No effect	Excellent	Good	Fair

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⁾		●		

Independent SEFA-Test, Laboratory results per colour available on www.fundermax.at

PRODUCTO: RESULTADOS DE RESISTENCIA QUIMICA

Substance	Rating	0 No effect	1 Excellent	2 Good	3 Fair
SOLVENTS					
Acetone ²⁾		●			
Amyl Acetate		●			
Benzene		●			
Butyl Alcohol		●			
Carbon Tetrachloride		●			
Chloroform ²⁾		●			
Dichlor Acetic Acid ²⁾			●		
Dioxane		●			
Diethyl Ether		●			
Ethyl Acetate ¹⁾		●			
Ethyl Alcohol		●			
Methylalcohol		●			
Methylene Chloride		●			
Methyl Ethyl Ketone		●			
Mono Chlorobenzene		●			
Napthelene		●			
Toluene		●			
Trichloroethylene		●			
Xylene ¹⁾		●			

Substance	Rating	0 No effect	1 Excellent	2 Good	3 Fair
ORGANIC CHEMICALS					
Cresol		●			
Dimethylformanide		●			
Formaldehyde 37%		●			
Furfural ¹⁾			●		
Gasoline		●			
Hydrogen Peroxide 30% ²⁾		●			
Hydrogen Peroxide 3%		●			
Phenol 90%			●		
Sodium Sulfide Saturated		●			

Independent SEFA-Test, Laboratory results per colour available on www.fundermax.at

Mas poros mas crecimiento de bacterias



RE-Surface



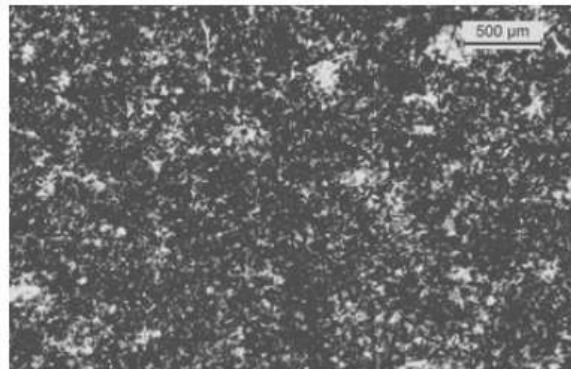
NO SMALL PORES VISIBLE

EBC-Surface



MICROPORES VISIBLE

Melamine Surface



PORES VISIBLE

Dificultad para la desinfección



RE-Surface



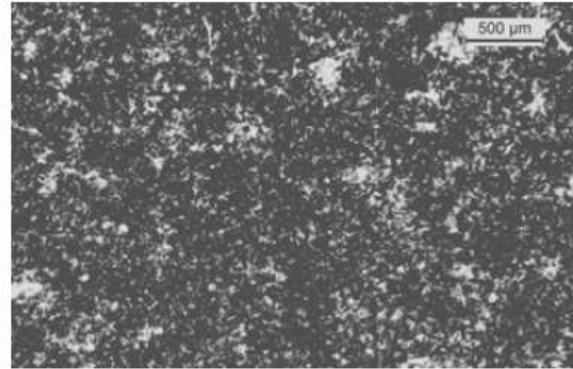
NO SMALL PORES VISIBLE

EBC-Surface



MICROPORES VISIBLE

Melamine Surface



PORES VISIBLE

PROPIEDADES MECANICA & FISICAS




Abrasion resistant


Impact resistant


Scratch resistant

Durable


Double sided


PRODUCTO: PROPIEDADES FISICAS Y MECANICAS

Properties tested according to EN 438-2	Standard requirement	Max Resistance ²
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PHYSICAL DATA

Density DIN 52350/ISO 1183	$\geq 1,35 \text{ g/cm}^3$	$\geq 1,35 \text{ g/cm}^3$
Thickness (e.g.) EN 438-2, point 5		10 mm
Weight		13,5 kg/m ²

MECHANICAL PROPERTIES

Resistance to stress abrasion EN 438-2, point 10	$\geq 350 \text{ U}$	450 U
Resistance to impact EN 438-2, point 21	$\leq 10 \text{ mm}$	8 mm
Resistance to scratching EN 438-2, point 25	$\geq 3 \text{ degree}$ $\geq 4 \text{ N}$	3-4 degree 4-6 N
Flexural strength EN ISO 178	$\geq 80 \text{ MPa}$	$\geq 80 \text{ MPa}$
E-Modulus EN ISO 178	$\geq 9000 \text{ MPa}$	$\geq 9000 \text{ MPa}$
Tensile strength EN ISO 527-2	$\geq 60 \text{ MPa}$	$\geq 60 \text{ MPa}$

Properties tested according to EN 438-2	Standard requirement	Max Resistance ²
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THERMAL PROPERTIES

Dimensional stability measured at elevated temperatures with moisture change EN 438-2, point 17	$\leq 0,30 \text{ length}$ $\leq 0,60 \text{ width}$	0,05 length 0,15 width
Resistance to boiling water EN 438-2, point 12	$\leq 2\%$	0,3%
Co-efficiency of thermal expansion DIN 52328	1/K	20×10^{-4}
Resistance to dry heat EN 438-2, point 16	4-5 [degree]	5 no visible changes, no blisters or cracks ²
Resistance to staining EN 438-2, point 26 (group 1-3)	4-5 [degree]	5 no visible changes, no blisters or cracks ²

OPTICAL PROPERTIES

Light fastness EN 438-2, point 27	$\geq 4 \text{ [level]}$	4 or 5
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MAX RESISTANCE² - CERTIFICACIONES

OF COMPLIANCE

FunderMax GmbH
MAX Resistance²

2082-400
Certificate Number

09/04/2015 - 09/04/2016
Certificate Period

Certified
Status

UL 2818 - 2013 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

Product does not contain any of the 16 chemicals listed in the UL 2818, Section 1.

CERTIFICATE

"MAX Compact Laminate"

For Adhesive Bonded Laminates

Produced in the factory: a 2000 Water-Resistant

with the presence of the 2000-400-4

for decorative high-pressure laminate (HPL) Type 1, 2, 3, 4.

The company
FunderMax GmbH
Klagenfurter Straße 87-89, A-9300 St. Veit an der Glan

is declared suitable and that the product is in accordance with

Certificate

FunderMax GmbH
Industriekomplex NO-Nal
2005 Wasser-Nahe-1
Austria

Certified company
Whole Company

Certified products
Compact panel (conform to EN 438)
Decorative laminate (conform to EN 438)

Manufacturer's Code
Forest Stewardship Council - Chain of Custody
Standard information: FSC-COC-00494 (2.1)
FSC-AT20-40-004 (2.1)

Certificate Code
FSC-COC-00494 FSC-CHE942

Test Report For:
FunderMax GmbH
MAX Resistance²

SEPA 3-2015, 2.1 Chemical/Stain Resistance

Test Report Manager
Tom Pearson
Reviewer

CERTIFICATE

FUNDERMAX

Interim report for the evaluation of the
Environmental Product Declaration
EPD

Second high-pressure laminate
(HPL) Type 1, 2, 3, 4

April 2015

Scientific Equipment & Furniture Association
November 1, 2014 - December 31, 2017
Certificate of Membership

DAVID J. TUTTLE, Executive Director and General Counsel of the Scientific
Equipment and Furniture Association, hereby certifies that

FunderMax GmbH
Klagenfurter Straße 87-89
St. Veit/Glan, Carinthia 9300 AUSTRIA

is a SEPA Associate Member in good standing.

SEPA
November 1, 2014
www.sepa-lab.com

CERTIFICATE

FunderMax GmbH

Industriekomplex NO-Nal
2005 Wasser-Nahe-1
Austria

Certified company
Whole Company

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Certificate Code
FSC-COC-00494 FSC-CHE942

IMA 国家化学建筑材料测试中心
(材料测试)

检测报告

序号	检测项目	检测结果	判定
01	甲醛释放量	0.05	合格
02	总挥发性有机物(TVOC)	0.10	合格
03	苯	0.01	合格
04	甲苯	0.02	合格
05	二甲苯	0.01	合格
06	乙苯	0.01	合格
07	邻二甲苯	0.01	合格
08	对二甲苯	0.01	合格
09	间二甲苯	0.01	合格
10	苯乙烯	0.01	合格
11	丙烯腈	0.01	合格
12	氯乙烯	0.01	合格
13	氰化氢	0.01	合格
14	氨	0.01	合格
15	氟化氢	0.01	合格
16	氯化氢	0.01	合格
17	硫酸	0.01	合格
18	硝酸	0.01	合格
19	磷酸	0.01	合格
20	醋酸	0.01	合格

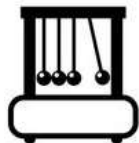
TENDENCIAS



PRODUCTO : USOS EN TODOS LOS LABORATORIOS



Lab Biológicos ✓



Lab Físicos ✓



Labs Químicos ✓



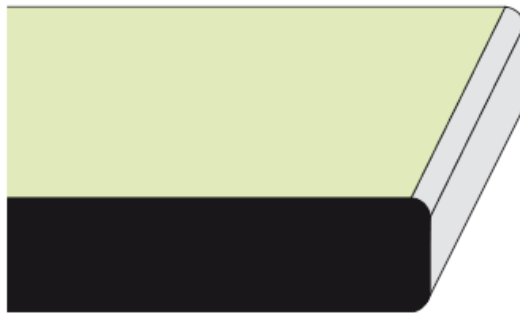
Lab Speciales ✓

Group name	Kind of laboratory	Where to find?
Biology labs	Bio chemical Bacteriological Clinical Bio Pharma	Universities Biological research (plant and animal) Hospitals Food and beverage industry Pharmaceutical industry and research centres
Physical labs	Education Dental Metallurgical Electronic	Schools and universities Dental institutes Metal industry Electro technical industries
Chemical labs	Synthetical Analytical Organic Inorganic	Food and beverage industries Universities Agrochemical Petrol chemical industries Chemical industries Photo labs Forensic science labs
Special type	Nuclear Meteorological	Power plants Meteorological research labs

SERVICIO: TERMINACION DE BORDES



Biselado



Bordes redondeado



Redondo



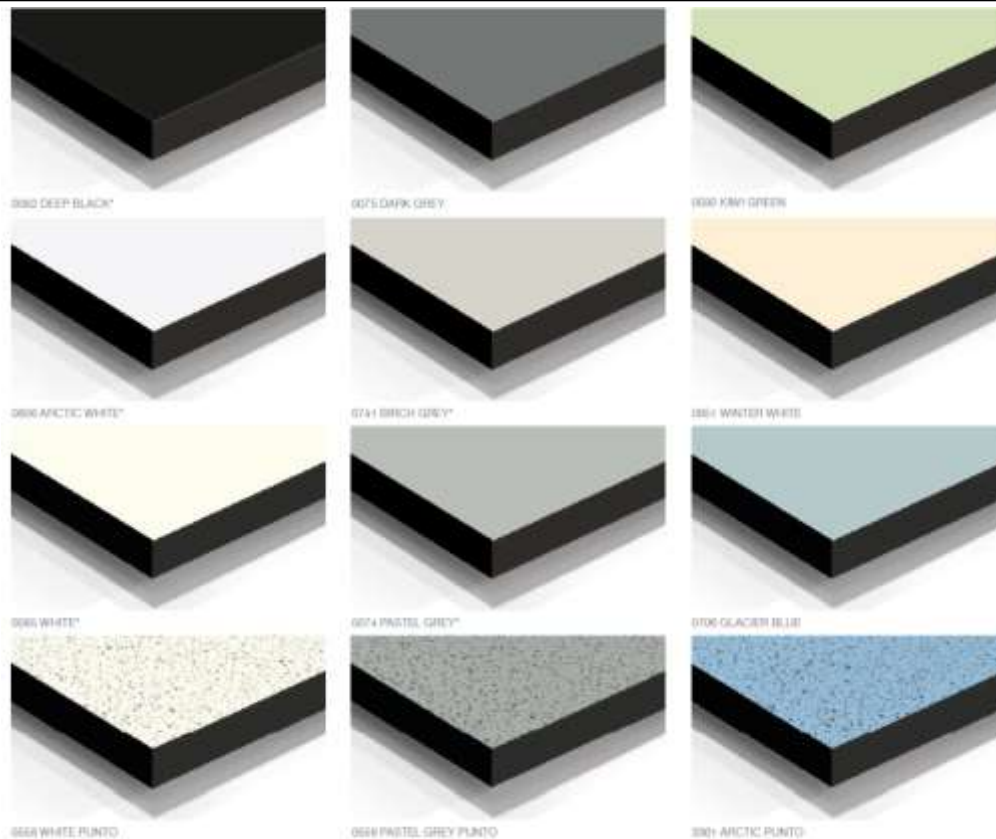
viselado >2 mm

Ranura antigesto ≥ 5 mm

MAX RESISTANCE² - COLECCION STD DE COLORES

CREAR

ambientes de trabajo con
estética, agradables y
productivos



MAX RESISTANCE² - BENEFICIOS



ESTÉTICA

El papel Kraft virgen de calidad superior y la resina fenólica aseguran un buen núcleo negro

MAX RESISTANCE² - USOS



FUNDERMAX
Compact
Interior

Laboratorios

Hospitales

Muebles para investigacion

y mas...

Salas limpias, cambiadores



MAX RESISTANCE² - USOS



**Compact
Interior**

Cubiertas

Estantes y cajas de trabajo

Mesas escritorios

Mesas móviles

Campanas de extracción
y laminado interno

Revestimiento de pared

Sectores húmedos



MAX RESISTANCE² - USOS



FUNDERMAX[®]
**Compact
Interior**

MAX RESISTANCE² - USOS

FUNDERMAX[®]



FUNDERMAX[®]
**Compact
Interior**

MAX RESISTANCE² - USOS

FUNDERMAX[®]



FUNDERMAX[®]
**Compact
Interior**

MAX RESISTANCE² - USOS

FUNDERMAX[®]



FUNDERMAX[®]
**Compact
Interior**

Max Resistance² Facilidad de mecanizado



ease-of-machining
high-yield
flatness
feed-speed
cut-drill-route
flexibility
clean
minimal-tolerances
crack-free
light-weight

Processing recommendations

General processing guidelines

* Maximum recommended thickness for standard processing is 10 mm. For thicker plates, contact your local Fundermax representative for specific recommendations.

Material	Thickness (mm)	Max. length (m)	Max. width (m)
Aluminum	10	10	10
Steel	10	10	10
Stainless steel	10	10	10

Maximum recommended thickness

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

Drill drilling

10 mm

10 mm

Maximum recommended thickness

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

Drilling

10 mm

10 mm

Maximum recommended thickness

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

Compact Interior

Processing recommendations

General

10 mm

10 mm

Maximum recommended thickness

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

Drilled edge joints

10 mm

10 mm

Maximum recommended thickness

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

Drilling

10 mm

10 mm

Maximum recommended thickness

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

10 mm

Compact Interior

for people who create

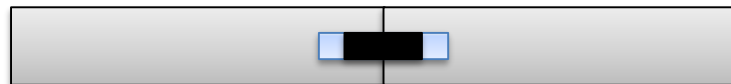
MAX RESISTANCE² - Juntas



Spline joint with chamfer – Chemical labs



Flexible spline joint with sealant - Bio labs



Spline joint – Physical labs



Fixed spline joint with sealant or Epoxy grout



Fixed butt joint



Rebated joint with sealant

MAX RESISTANCE²- Opciones POCETA/PILETA/BACHA



Under slung sink + drip groove – Chem labs



Rebated Drop-in sink with sealant – Bio labs

Sink options:

- Stainless steel
- Epoxy
- Polypropylene
- Ceramic



Drop-on sink with sealant – Bio labs

MAX RESISTANCE² - Opciones RESPALDO/SALPICADERO/CABINAS



Bordes antiderrame



Dos placas negras en ambas caras

Pegado:

- Silicona negra (menor a 1mm)
- Resina epoxi negra



A group of approximately 20 silhouettes of business professionals in various poses, standing on a reflective surface. They are positioned in front of a large, light gray world map that serves as the background.

for
people
who
create