



**LOC Max
Compact Laminate
for extreme demands**

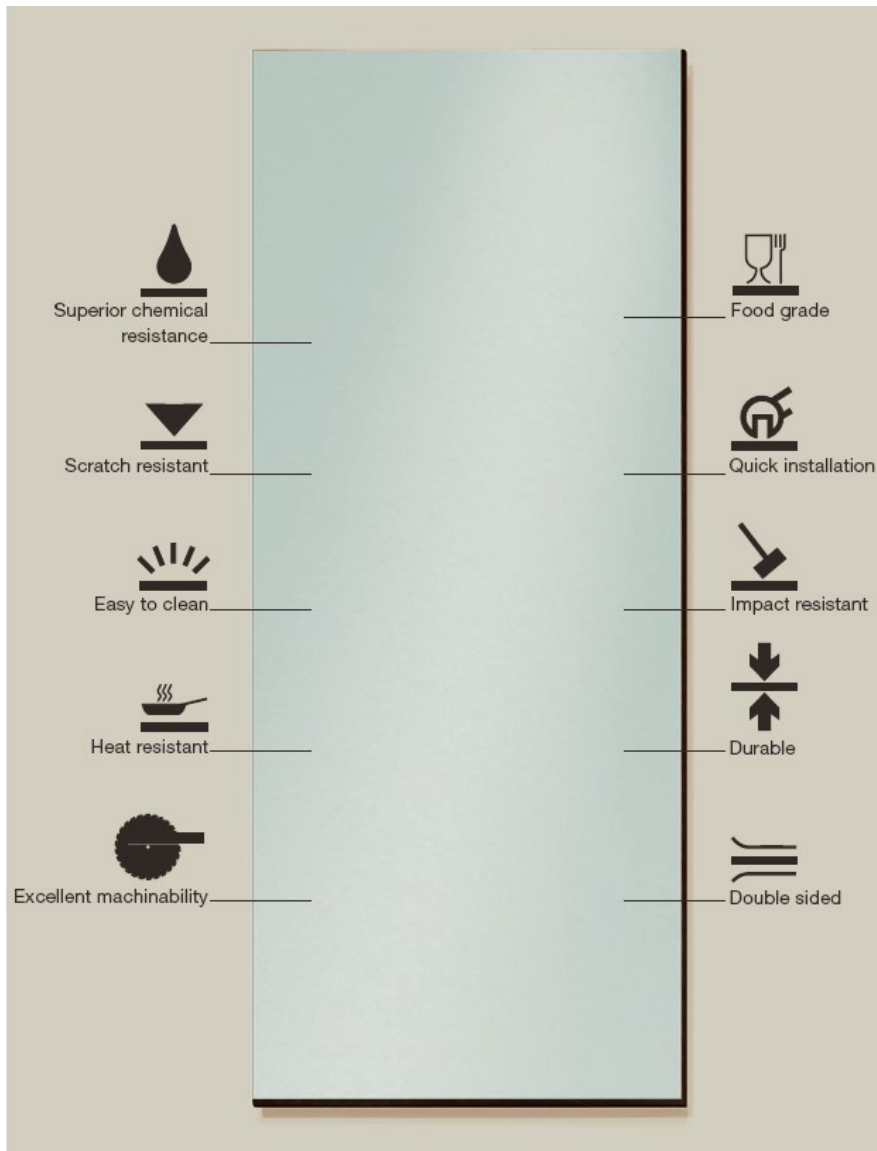
Countertops

**for
ultimate
protection &
durability**

LOC Max Now best in 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: LOC Max.



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

LOC Max is both chemical-resistant and highly mechanical resistant. If you know the heart of the matter, you will immediately understand why. LOC Max 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.

LOC Max

Ideal for all types of laboratories, in the hygienic sector, for research centers, 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

LOC Max Properties



Panel size

3660 x 1630 mm (144.1 x 64.2 inch)

Standard thicknesses

25 mm (~1 inch)
other thicknesses upon request

Surface texture

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

Properties tested in acc. To EN 438-2	Standard Requirement	Max Compac LOC Max
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Physical Data

Apparent density DIN 52350/ISO 1183	≥ 1,35 g/cm ³	≥ 1,4 g/cm ³
Thickness (e.g.) 438-2, point 5	Mm	10
Weight	Kg/m ²	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-Moduls EN ISO 178	≥ 9000 MPa	10000 MPa
Tensile strength EN ISO 527-2	≥ 60MPa	60MPa

Properties tested in acc. To EN 438-2	Standard Requirement	Max Compac LOC Max
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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 ⁻⁶
Resistance to hot soucepans EN 438-2, point 16	4-5 [Degree]	5 no visible changes, no blisters or cracks
Resistance to staining EN 438-2, point 26 (grey 1-3)	4-5 [Degree]	5 no visible changes, no blisters or cracks

Optical Properties

Light Fastness no. EN 438-2, pt. 27	≥ 4 [Level]	4 or 5
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LOC Max Chemical Resistance



LOC Max 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	1	2	3	4
		No Effect	Excellent	Good	Fair	Failure

Acids

Acetic Acid 99%	•					
Acid Dichromate 5%	•					
Chromic Acid 60%	•					
Formic Acid 90%	•					
Hydrochloric Acid 37%	•					
Hydrofluoric Acid 48%		•				
Nitric Acid 20%	•					
Nitric Acid 30%	•					
Nitric Acid 70%	•					
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		•				

Test results may differ per color.

- 1) result on 0082
- 2) result on 0085



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: LOC Max passed the SEFA 24h Exposure Test and is therefore suitable and recommended for Laboratory - worktops. FunderMax Resistance² exceeds the SEFA test criteria by far with not one single Level 3 or 4 rating.

Substance	Rating	0	1	2	3	4
		No Effect	Excellent	Good	Fair	Failure

Organic Chemicals

Cresol	•					
Dimethylformamide	•					
Formaldehyde 37%	•					
Furfural			•			
Gasoline	•					
Hydrogen Peroxide 30%	•					
Hydrogen Peroxide 3%	•					
Phenol 90%			•			
Sodium Sulfide Saturated	•					

Solvents

Acetone(2)	•					
Amyl Acetate	•					
Benzene	•					
Butyl Alcohol	•					
Carbon Tetrachloride	•					
Chloroform	•					
Dichlor Acetic Acid			•			
Dioxane	•					
Diethyl Ether	•					
Ethylacetate	•					
Ethylalcohol	•					
Methylalcohol	•					
Methylene Chloride	•					
Methylethylketone	•					
Mono Chlorobenzene	•					
Napthelene	•					
Toluene	•					
Trichloroethylene	•					
Xylene	•					

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).