KRATER SKOPJE

ALUMINIUM SURFACE TREATMENT

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COMPANY PROFILE

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Krater DOOEL Import - Export Ilinden is a leading company with a tradition of more than 30 years, working in the field of thermo-technical, metalworking processes and surface treatments of metals for manufacturing individual parts, assemblies and other structures.

The versatility of aluminum is ensured by its adequate surface protection, as raw aluminum oxidizes very quickly in air. The intrinsic protective ability of aluminum can be significantly improved by forming an natural oxide layer on the surface by anodizing (anodizing) process. The surface of aluminum treated in this way is resistant to weather, mechanical and some chemical influences.

General information about mechanical and chemical aluminium surface treatment, which can be offered by modern anodization line of the company KRATER, are presented in this brochure.

Please contact us for additional information. We will be glad to assist.

Maximum dimensions of the handled parts:

- **Length 6.200 mm**
- **Wegth 700 mm**
- **Depth 1.360 mm**

By anodizing at Krater, your aluminum will come to full validity and usability.

1. Workpieces with the following maximum dimensions can be anodized:
   6200 x 700 x 1360 mm

2. We offer the following anodised surface appearance:

- natural anodizing color
- electrochemical paints according to EURAS (C31 - C35) (UV resistant)

3. The following surface pre-treatment options are available:

- E0- pickling
- E6-satin.

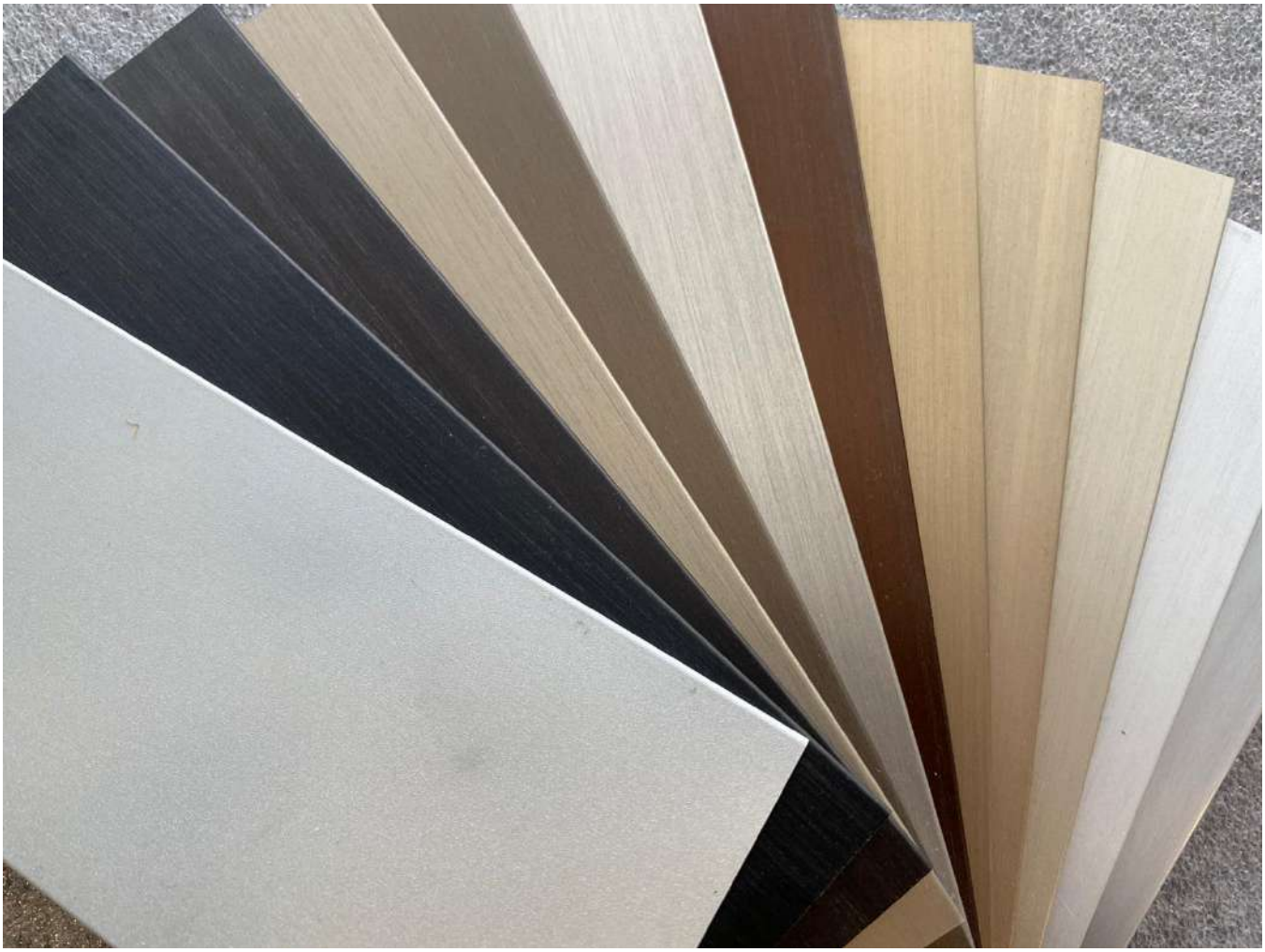
Recommended layer thicknesses for anodizing

Layer thickness in µm	Areas of application
25	External use: the surface is exposed to very strong influences due to corrosion or wear.
20	External use: strong or normal impact, for example building material, vehicles and ships.
15	Exterior and interior use: - relatively strong wear on the interior, for example fences, - exterior decorative details.
10	External and internal use: - normal influence inside and outside in a dry and clean atmosphere. Spotlights, fittings, car trim strips, sports equipment.
5	Internal use: common effects.

- The thickness of the oxide layer depends on the wishes and plans of the customers.

Electrochemical coloruring process

The range that can be achieved are the colors of EURAS,



Electrochemical colours according to EURAS:

E6 C0 **Satinized, natural anodised**	
E6 C31 **Satinized, very bright bronze anodized**	

E6 C32 **Satinized, bright bronze anodized**	
E6 C33 **Satinized, bronze anodized**	
E6 C34 **Satinized, dark bronze anodized**	
E6 C35 **Satinized, black anodized**	

The actual colour or appearance of the surface may differ from the displayed photos. Each monitor/mobile screen has a different ability to display colours, and lighting conditions during shooting can affect the appearance of colour in a photo. Each implementation of the project requires sampling on a specific product.

Laboratory

Concentrations of acids, bases and additives in bathtubs are tested in our laboratory according to instructions recommended by Alufinish, pH value and conductivity as well as spectrophotometric analyzes for all types of water: sanitary, industrial, waste and DM water are also treated in this laboratory.

Analyzes that can be performed on the spectrophotometer:

- Sulfate 100-1000 mg/l
- Phosphate 0.015 - 15.3 mg/l
- Sulfide 0.1- 5.0 mg/l
- Fluoride 0.02-2 mg/l
  0.10-20.0 mg/l
- Nitrate 0.2-20.0 mg/l [NO_3-N]
  0.9-88.5 mg/l [NO_3^-]
- Total Hardness [° dH]
- Chloride 2.5-250 mg/l
- BOD test 0.5- 300 mg/l
- Silicate 0.005 - 5.00 mg/l Si
  0.011- 10.70 mg/l SiO_2