

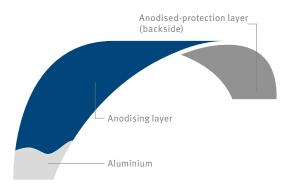
# **BEMO-ELOX**

### MAIN FFATURES

The BEMO-ELOX products are getting an "anodic oxidation" which gives the products a highly decorative, very durable and scratch-resistant surface. The Aluminium itself reacts. No additional layer is applied. The products are therefore 100% recyclable.

The layer thickness if visible side is between  $3\mu m$  and  $15\mu m$ , depending on the requirements and colour.

The anodised protective layer on the back side is usually approx. 1/3 of the layer on the front side.



\* Remove protective film immediately after installation and do not expose the protective film to UV radiation for a long time, even when in storage. As no additional top coat is applied, BEMO-ELOX surfaces have a "living" metallic appearance.

Differences in the visual effect of the materials from different batches, surface shapes and due to the chemical composition of the aluminium alloys cannot be avoided systemically and make up the "charm" of the ELOX products. The surfaces are available in the versions: High-gloss, matt, natural and brushed. In addition to the special surface effect, they are characterised by very high scratch resistance and long-lasting colour and corrosion resistance.

## **APPLICATIONS**

- Recommended for all roof applications with the need of low sun reflection (=BEMO natural pre-weathered) or if very durable corrosion protection is required for high decoractive requirements.
- Recommended for all highly decorative facade applications where a "natural" metallic effect and high scratch and corrosion resistance are desired.
- The surface is very hard (level 8-9 on the Mohs harness scale). If subsequently bent, the thin anodised layer of the surface cracks without impairing the corrosion protection, but is visibly noticable.
- Please note that aluminium alloys for decorative use may not be covered by building authority approvals for the systems!

#### **Processing Possibilities**











Drilling Punching Profiling C

Cutting

Folding T > 1,0 with cracking

#### Colour samples











**Surfaces** 

Mirror

Gloss

Matt

Natural

Brushed







#### **BEMO-ELOX**

- Also available in other colours.
- Up to 3,0 mm anodised as coil anodising.
- Stock colours: no
- Minimum quantity 350 m<sup>2</sup> at 1,0 mm Aluminium resp. 500 m<sup>2</sup> for BEMO-BOND composite panels.
- Product groupe: BEMO Standing seam, UNIKO\*, PRIMO, Aluminium-Composite, trapezoidal- and corrugated profiles

<sup>\*</sup> for BEMO-UNIKO is possibly a subsequent piece

anodising recommended

EN-AW 3005 or 5005 H24 or H26 or similar (DIN EN 485-2)

## COMPARISON OF BEMO COATING VARIANTS

Matt, Natural, Brushed

COMPARISON OF PAINT TYPES										
	Bending resistance*	Humidity resistance*	Chemical resistance*	Corrosion resistance*	Gloss retention*	Surface hardness*				
BEMO-ELOX	2	5	5	5	5	5				
BEMO-FLON PROTECT	3	4	4	3	4	3				
PVDF	5	5	5	4	5	4				
BEMO-FLON FEVE	4	5	5	4	5	3				

COLOUR FASTNESS TO ENVIRONMENTAL IMPACTS										
	Rural environment*	Urban environment*	Industrial environment*	Distance of the coast*		Sun-intensive zones*				
				> 5 km	1.5 – 5 km					
BEMO-ELOX	5	5	5	5	5	5				
BEMO-FLON PROTECT	4	4	3	3	3	1				
PVDF	5	5	5	5	5	5				
BEMO-FLON FEVE	5	5	5	5	5	5				

<sup>\*(</sup>Classification according to BEMO)

Rating scale: 5 = very good, 1 = poor

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