

PRODUCT SPECIFICATION SHEET:

Product Brand Name:

X-BOND (C-BOND)

Product Description:

single-sided architectural anodized aluminumⁱ

Anodized surface properties : front side

- Anodic layer thickness:
 - Measured following Eddy Current method (ISO 2360)
 - Guaranteed minimum value according to the order, at any point on the surface
- Sealing of the anodic layer
 - Weight loss test following EN ISO 3210 (method 1)
 - Results < 15 mg/dm²
- Continuity of the anodic layer,
 - Continuity test following EN ISO 2085
 - Results : no points per cm²
- Visual surface appearance:
 - No defects visible at an inspection distance of 3 m
- Gloss :
 - Measured at 20°, 60° and/or 85° // following EN ISO 7668 expressed in Gloss Units (GU)
 - Gloss difference: tolerances can be agreed based on the chosen aluminum substrate.
With non-etched products, the gloss is 100% determined by the metal substrate
- Color:
 - Color and color tone in accordance with the order
 - Measured following L*a*b* color space (CIE 1976).
 - Color tolerances to be agreed based on min-max samples.
- Temperature resistance:
 - This product can be safely exposed to temperatures up to 180°C.
 - If this product is intended to come into contact with process temperatures above 180°C, please contact COIL NV/SA for advice.
- Filiform corrosionⁱⁱ & weatheringⁱⁱⁱ resistance: excellent

Possible surface finishes for X-BOND (C-BOND):

<u>Finish</u>	<u>Foldability^{IV}</u>	<u>Main alloy(s)</u>
Standard Mill Finish	Perfect	EN-AW 5005
Brite ⁽¹⁾	Limited	EN-AW 1085 or similar
Semi Brite	Limited	EN-AW 1050EX (151EX)
Satin Finish	Perfect	EN-AW 5005
Brush	Perfect	EN-AW 5005
Thru	On request	EN-AW 5005
Tread	On request	EN-AW 5005

^{IV} Foldability: Conform EN 485-2 (applicable for non perforated material)

(1) Brite is referred to as “Diffuse Mirror” appearance

Possible main colors for X-BOND (C-BOND):

<u>Main Color</u>	<u>Light stability^V</u>
Natural	Excellent
Bronze	Perfect
Gold	Good
Copper	Perfect
Rosegold	Good
Zinc Natural ^{VI}	Perfect

^V Based on Sun Test CPS+Atlas (ISO 11341), 10 years exposure

^{VI} Zinc Natural is based on alloy EN-AW-6061

Possible color tones or “shades” for above mentioned main colors are available on request.

Other colors (and accompanying shades) are available on request.

Anodized back side for protection:

- Anodic layer thickness: indicative (not guaranteed) value of about 1/3 of the recto side
- Improved adhesive properties for gluing to a composite core (e.g. PE or FR)

Important remark:

- Single Sided anodized aluminium
 - only the front side is intended to be the exposed, visible side.
 - Only the front side is guaranteed.

Aluminum substrate :

- Mechanical properties following DIN EN 485-2
- Dimensional tolerances following DIN EN 485-4
- Alloy: typically EN-AW 5005, but other alloys possible on request ⁽²⁾
- Temper: typically H14 or H24 but other tempers possible on request
- Anodizing Quality

(2) Surface finish "Brite" is always alloy 1085 H18 or similar (also mentioned on page 2)

Warranties:

<u>Layer</u>	<u>Years</u>	<u>Warranted properties:</u>
5µm ⁽³⁾	20	Anodic layer thickness
8µm	25	Sealing quality of the anodic layer

(3) X-Bond 5µm is for interior use (interior applications) only

Application(s):

This product is intended to be used as front skin in aluminium composite panels for in- and outdoor architectural applications.

Availability:

- Coil

Width (mm)	Gauge (mm)
800-1600	0.50mm

Dimensional tolerances following DIN EN 485-4

Protective film possible. Recommended type: rubber based, 70-80 µm , UV resistant

- Sheet Availability on request

Dimensional and flatness tolerances following DIN EN 485-4

Sheets cut by homologated subcontractors under supervision of COIL NV/SA' Quality Dept.

Protective film possible. It is recommended to apply protective film after levelling operation, especially in case of thick gauge metal and high anodic layer thickness.

Recommended type: rubber based, 70-80 µm, UV resistant.

- Energy Product Declaration (EPD) Specific declarations are available on request

- REACH and RoHS Specific declarations are available on request

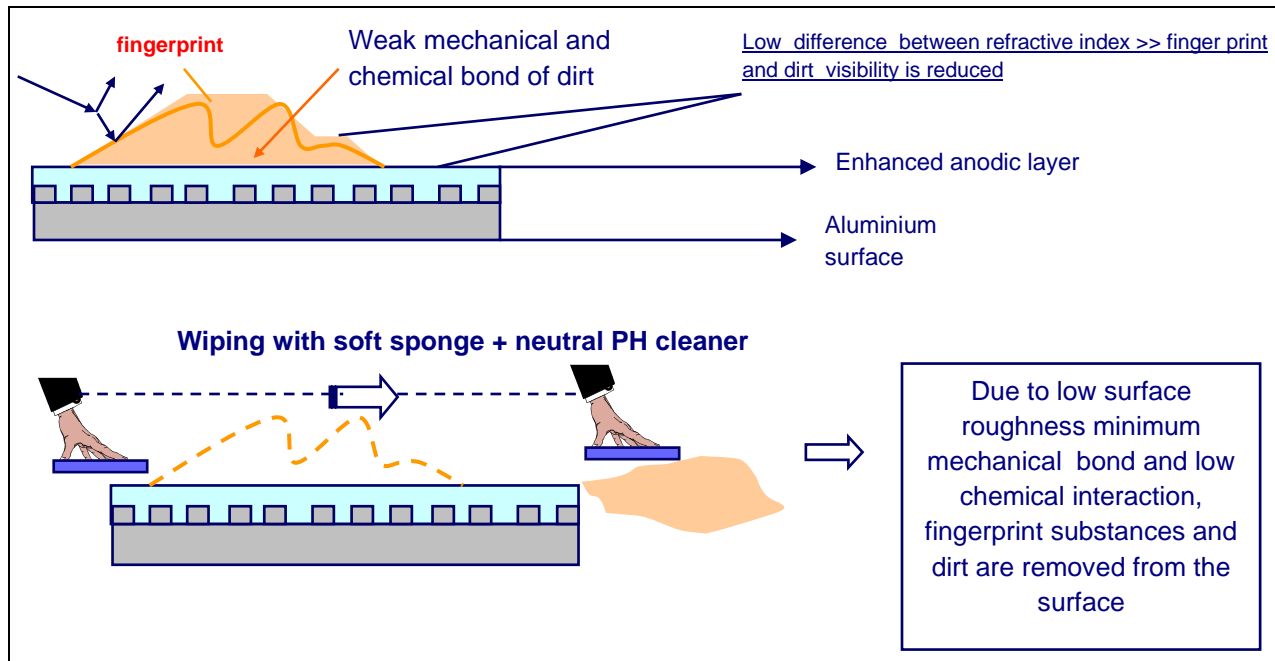
- Ours products contain NO:

- SVHCs (substances of very high concern) currently on the Candidate List according to REACH in amounts $\geq 0.1\%$;
- substances on the Authorization List (REACH Annex XIV) in any amount;
- PBT/vPvB substances;

Provided that the raw aluminium substrate does not contain these substances either.

- Our products are compliant with RoHS III, provided the raw aluminum substrate does not exceed the maximum levels allowed by the directive of the following substances.

Enhanced anodized surface properties : front side EASY TO CLEAN technology = no retention of dirt



ⁱ Definitions:

- Single-sided anodizing: only the front side is intended to be the exposed, visible side. Only this side is guaranteed.
- Architectural anodizing: anodizing process specifically designed for architectural applications.

ⁱⁱ Based on accelerated corrosion tests :

- Neutral Salt Spray (ISO 9227), 1000 hrs exposure.
- Kesternich (ISO 6988), 1000 hrs exposure.

ⁱⁱⁱ Based on Tropical Test (ISO 6270-2) , 40°C – 100% humidity , up to 1000 hrs exposure