

PRODUCT SPECIFICATION SHEET:

Product Brand Name:

C-FLEX NATURAL 3µ

Product Description:

3 µm single-sided clear continuously anodized corrugated aluminumi

Anodized surface properties: front side

- Anodic layer thickness:
 - Measured following Eddy Current method (ISO 2360)
 - o guaranteed value of minimum 3 μm, at any point on the surface
- Sealing of the anodic layer
 - Weight loss test following EN ISO 3210:2010 (method 1)
 - Results < 25 mg/dm²
- Continuity of the anodic layer,
 - Continuity test following EN ISO 2085:2010
 - Results : no points per cm²
- Visual surface appearance:
 - Uniform and matt appearance
 - No defects visible at an inspection distance of 3 m
 - o For available corrugation patterns, please contact COIL NV/SA for more information.
 - Perforation as post-treatment is possible
- Gloss:
 - Measured at 60°// following EN ISO 7668:2010 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: Natural
- Temperature resistance:
 - o This product can be safely exposed to temperatures up to 80°C.
 - If this product is intended to come into contact with process temperatures above 80°C, please contact COIL NV/SA for advice.



- Corrosion & weathering resistance: excellent, no peeling/blistering/filiform corrosion
- Light stability: perfect iv
- Foldability: excellent^v

Anodized back side for protection:

• Anodic layer thickness: indicative value of 1 to 3 μm (not guaranteed)

Important remark: the back side is **not** intended to be the exposed, visible side.

Aluminum substrate:

- Mechanical properties following DIN EN 485-2
- Dimensional tolerances following DIN EN 485-4
- Alloy: typically EN-AW 5005, 3003, 3004, 3005 but other alloys possible on request
- Temper: typically H14, H16, H24 or H26 but other tempers possible on request
- Anodizing Quality

Warranties:

- Standard Warranty:
 - Warranty period: 25 years
 - Warranted properties:
 - Anodic layer thickness
 - Sealing quality of the anodic layer
- Extended Warranty:

On request it is possible to extend the standard warranty period and/or other properties can be included in the warranty. If such an extended warranty is requested, the project specifications have to be submitted to COIL NV/SA for evaluation. For more information, please contact COIL NV/SA.

Application(s):

This product is intended for use in roofing and wall for industrial buildings, for all applications where flexibility is combined with a pre-weathered look.



Availability:

Coil

Width (mm)	Gauge (mm)
1000-1600	0,5-1,2

Dimensional tolerances following DIN EN 485-4

Protective film possible. Recommended type: rubber based, 70-80 μm , UV resistant Availability may vary with the chosen corrugation pattern.

Sheet

Width (mm)	Length (mm)	Gauge (mm)
1000-1600	350-10500	0,5-1,2

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. Recommended type: rubber based, 70-80 μ m, UV resistant Availability may vary with the chosen corrugation pattern.

ⁱ Definitions:

• Single-sided anodizing: only the front side is intended to be the exposed, visible side. Only this side is guaranteed.

- Continuous anodizing: anodizing of aluminum coils in a continuous treatment process
- Corrugated: after anodizing the flat surface has been transformed into a sinusoidal "corrugated" surface. The anodizing process has been specifically modified to enable the corrugation.

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

[•] Clear anodizing: the anodic layer is transparent, not colored. The observed surface color is that of the matt aluminum substrate. Also known as "natural" anodizing.

ii Based on accelerated corrosion tests:

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

^{iv} Based on Sun Test CPS+Atlas (ISO 11341), 1000 hrs exposure

^v Based on bending tests with an adaptive bending press. Folding radius 1 mm, angle 45° and 90°.