

Paint quality: Duragloss[®] 5000



Main features

Reynolux[®] Building pre-painted aluminum sheets offer an outstanding corrosion resistance thanks to our coil-coating technology. The advantages are particularly obvious for large area applications, which place exceptionally high demands on evenness in colours.

Duragloss[®] 5000, which is developed by us, presents three major advantages:

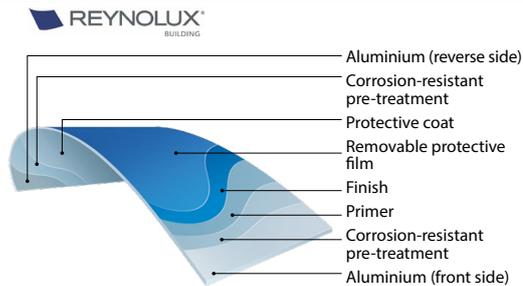
- Flexibility: Duragloss[®] 5000 shows a very good flexibility, which is indeed required for transformations such as bending and profiling
- Aesthetic: Duragloss[®] 5000 offers an extremely large range of colours, which goes up to high mattness.
- Durability: Duragloss[®] 5000 does not only present a very high resistance to aging, to UV and corrosion but is also efficient against chalking. It is adapted to every kind of climate. Moreover, our products come with a warranty from 15 to 20 years for an exterior application.



Applications

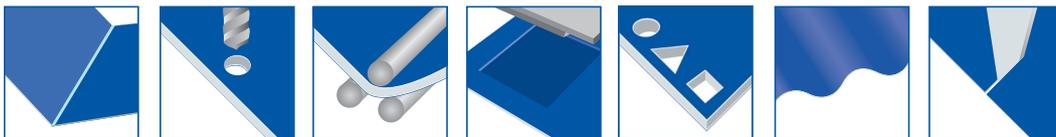
Reynolux[®] Building Duragloss[®] 5000 paint is especially developed for outdoor applications such as facades and roofs, both in the area of new buildings as well as refurbishment. Reynolux[®] Building can be installed as clapboards, claddings, trapezoidal sheets, sandwich panels, siding or as cassettes systems.

Learn more at www.reynolux.eu



Fabrication

Below you can find the main fabrication methods for Reynolux[®] Building:



Folding

Drilling

Bending

Pressing

Punching

Profiling

Cutting

Cleaning

Please refer to the cleaning instructions of the technical datasheet "Maintenance guidelines for Reynolux[®] pre-painted aluminium sheets".

Manufacturer's particulars and installers qualifications

Our customers are all different and thus have specific needs, as well as specific machines and tools. They should therefore make tests to find the paints and metals that are appropriate to their needs and applications according to their market, as well as to confirm the material they will use.

References

STANDARD: Plain colours, Metallic

NATURAL Design: Terracotta, Minerals, Granite, Aciero

EFFECTS: Sparkling, Matt anodized, Chameleon

WOOD Design: Mahogany, Oak, Zebrano

Options: Anti-Bacterial, GreenShield. On request Anti-Graffiti, StrongProtect and EcoClean[™]



TECHNICAL DATASHEET

Performance and durability Reynolux® pre-painted aluminium sheet		2-coats	3-coats
Coating thickness depending on colour	EN 13523 – 1 ASTM D 7091	35 µm to 40 µm STANDARD: Plain colours, Metallic NATURAL Design: Terracotta, Minerals EFFECTS: Anodized Look	50 µm to 55 µm NATURAL Design: Granite, Patina, Corten, Stone WOOD Design EFFECTS: Sparkling and Chameleon BRUSHED Look
Specular gloss	EN 13523 – 2 ASTM D 523	High gloss, Satin, Matt and MattXtrem	
Durability class	NF EN 1396	Class 4: severe industrial – extreme conditions, very severe coastal marine (less than 3,000 m from the sea), high UV, plus severe conditions	
Pencil hardness	EN 13523 – 4 ASTM D 3363	> HB	
Resistance to cracking on rapid deformation	EN 13523 – 5 ASTM D 2794	No cracking, no loss of adhesion	
Adhesion after indentation	EN 13523 – 6 ASTM D 3359	100 % of adhesion	
Resistance to cracking on bending	EN 13523 – 7 ASTM D 4145	Very good flexibility (0.5T), depending on alloy and temper	
Acetic salt spray fog resistance	EN 13523 – 8 ASTM G 85	1,000 h	
Water immersion resistance	EN 13523 – 9 ASTM D 870	3,000 h	
Humidity resistance	EN 13523 – 25 ASTM D 2247	3,000 h	
Mortar test	AAMA 2605	No effect	
Acid resistance 10 % HCl solution (15 min /23 °C) 20 % H2SO4 solution (18 h /23 °C) Nitric Acid	AAMA 2605 ASTM D 1308	Hydrochloric acid: no effect Sulphuric acid: no effect Nitric acid: ΔE < 5 units except some blue and metallic colours	
Detergent resistance: 3 % VIGOR solution (72 h /30 °C)	AAMA 2605	No effect	
Colour fastness on natural weathering	Florida Exposure 45° South EN 13523 - 3 ASTM D 2244	After 5 years exposure: Colour variation: 5 to 10 units (ΔE) depending on colour	
Resistance to chalking on natural weathering	Florida Exposure 45° South ASTM D 4214	Rating ≥ 8	
Fire certificates France	NF P 92 – 501	M0 incombustible	
Fire certificates Europe	EN 13501	A1	

Alcoa, responsible market leader in aluminium

Reynobond® aluminium composite panels and Reynolux® aluminium sheets are fabricated and coated in France based on 50 years of experience. Coil-coating is the most economical, efficient, high-quality and environmentally friendly method for applying coatings to aluminium panels.

As a member of the ECCA (European Coil Coating Association) we comply with the ISO and EN standards in all the countries we supply, and especially with the NF EN 1396: "Aluminium and aluminium alloys. Coil-coated sheet and strip for general applications".

Alcoa also uses environmentally-friendly materials and complies with ISO 14001, which shows the voluntary commitment of the company to reduce its impact on the environment at all levels: water, energy, waste and use of resources. Our Reynolux® coil-coated sheets are 100% recyclable. Moreover we develop continuously by improving the coatings in term of their composition (solvents and pigments), durability and cleaning requirements.



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