

PVDF 70/30



Main features

Reynolux® Building pre-painted aluminum offers 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.

PVDF 70/30 is considered as the standard for high-tech coatings in the construction industry. It presents three major advantages:

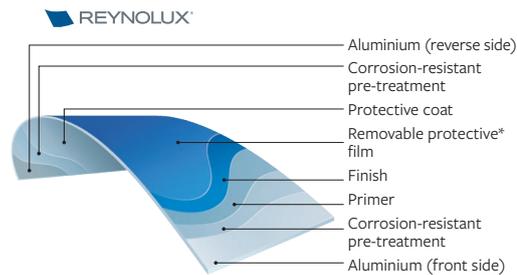
- **Flexibility:** PVDF 70/30 offers good flexibility, which is required for transformations such as bending and profiling
 - **Aesthetic:** PVDF 70/30 offers a large range of colours.
 - **Durability:** PVDF 70/30 not only provides a very high resistance to aging, UV and corrosion, but it is also effective against chalking. It is particularly well suited for aggressive environments and extreme climatic conditions.
- Moreover, our products come with a 20 years warranty for an exterior application.



Applications

Reynolux® Building PVDF 70/30 paint is specifically developed for outdoor applications such as facades and roofing, 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.

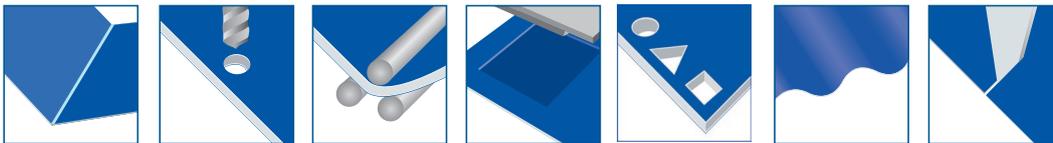
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*Protective film should be peeled-off immediately after the installation of the panels.

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“.

References

STANDARD: Plain colours, Metallic

EFFECTS: Sparkling, Chameleon

Options: Anti-Graffiti, GreenShield.

Performance and durability Reynolux® pre-painted aluminium sheet		2-coats	3-coats
Coating thickness depending on colour	EN 13523 - 1 ASTM D 7091	25 µm STANDARD: Plain colours, Metallic	40 to 50 µm STANDARD: Plain colours, Metallic EFFECTS: Sparkling and Chameleon
Specular gloss	EN 13523 - 2 ASTM D 523	Satin	
Durability class	NF EN 1396	Class 4: severe industrial - extreme conditions/ very severe costal marine (less than 3,000m from the sea)/ high UV plus severe conditions	
Pencil hardness	EN 13523 - 4 ASTM D 3363	HB - F	
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 % H ₂ SO ₄ 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	

Arconic Architectural Products SAS, responsible market leader in aluminium

Reynolux® pre-painted aluminium sheets are 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, where NF EN 1396: "Aluminium and aluminium alloys. Coil-coated sheet and strip for general applications" is required as a standard.

Arconic Architectural Products Merxheim (AAP) 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 terms of their composition (solvents and pigments), durability and cleaning requirements.

Disclaimer

Laws and building and safety codes governing the design and use of Arconic Architectural Products SAS's (AAP) products vary widely. It is the responsibility of the owner, the architect, the general contractor, the installer and the fabricator/ transformer, consistent with their roles, to determine the appropriate materials for a project in strict conformity to all applicable national, regional and local building codes and regulations.