

DOC-ALS-CFG-2025 · ENGLISH EDITION

# Colour & Finish Guide

PVDF Coating, Anodising and Special Effect Finishes

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Architectural colour selection, finish technology and approval workflow

# Colour & Finish Guide

## PVDF Coating, Anodising and Special Effect Finishes

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ALUCOSUN finish systems are developed for architectural facades, cladding panels and high-weathering applications. Colour selection should consider design intent, batch stability, weathering performance, fabrication method and future maintenance.

This guide separates PVDF / FEVE liquid fluorocarbon coating, powder coating, anodising, metallic effects, wood grain and stone effects to avoid mixing different processes and standards.



Final production should be based on physical samples and written colour approval.

## 1. Finish System Comparison

Finish System	Typical Structure	Thickness / Feature	Standard Reference
PVDF 2-coat	70% PVDF fluorocarbon system	Typically min. 25 µm	AAMA 2605 coating system
PVDF 3-coat	Primer + colour coat + clear coat	Typically min. 35 µm	AAMA 2605; metallic and high-weathering finishes
FEVE liquid fluorocarbon	FEVE resin coating system	Project specification	Can be confirmed under AAMA 2605 system
Powder coating	Architectural polyester or super-durable powder	By powder system	QUALICOAT Class 2 where applicable
Anodised finish	Electrochemical anodising layer	Commonly 15 µm or above	QUALANOD or project specification
Polyester PE	Standard polyester coating	Typically min. 20 µm	AAMA 2603 / interior or low-exposure use
Digital transfer	PVDF base + transferred visual effect	By finish and project	Physical sample and project validation required

## 2. Standard Colour Direction

Colour Family	Typical Direction	Application Notes
White / Off-white	RAL 9003, 9010, 9016, 9001	Clean facade expression, hospitals, schools, offices
Silver / Grey	RAL 9006, 9007, 7015-7047	Commercial facades, technology parks, public buildings
Champagne / Bronze	Champagne, light bronze, deep bronze	Hospitality, residential and civic accent areas
Black / Graphite	RAL 9004, 9005, 9011, deep greys	Premium retail, entrances and commercial facades
Blue / Green	Custom blue, architectural green, deep green	Corporate identity, cultural buildings and accents
Wood / Stone effect	Wood, stone and concrete effects	Natural-material appearance with lower weight and easier maintenance



### 3. Special Effect Finishes

#### Metallic & Pearlescent PVDF

Mica and aluminium pigments create depth that changes with viewing angle. Metallic colours should be produced by controlled batch, with colour tolerance agreed at project stage.

#### Wood Grain & Stone Effect

Suitable where natural-material appearance is required while retaining the weight, fabrication and maintenance benefits of metal panels. Pattern repeat, direction and panel layout should be confirmed before large-area use.

#### Brushed & Matte Metallic

Common for premium retail, hospitality and entrance facades. Fabrication and installation direction must be controlled to avoid inconsistent reflection between panels.

#### Anodised Finish

Anodising creates an oxide layer on aluminium and is not the same as organic coating. Colour range, batch variation and substrate condition strongly influence the final appearance.

### 4. Colour Approval Workflow

- Submit RAL / NCS / BS reference, physical sample or competitor sample.
- ALUCOSUN prepares a lab drawdown or 200 x 200 mm sample panel.
- Review colour, gloss and texture direction under daylight and typical project viewing distance.
- Mass production begins only after written sample approval.
- For metallic, pearlescent, wood grain, stone effect and anodised projects, retain sealed reference samples for site acceptance.

Technical document wording: Up to 30 years may be available for AAMA 2605-certified or equivalent PVDF fluorocarbon coating systems. The actual warranty period depends on coating specification, project location, maintenance programme, colour category, exposure environment and warranty registration conditions.

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