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Maintenance & Cleaning Guide

ALUCOSUN architectural cladding panel systems



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PVDF-Coated Aluminium Cladding Panel Systems

Applies to: ACP FR Core B1 · ACP A2 Core · X Panel (3D Core Panel) · Aluminium Solid Panel A1

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This guide applies to ALUCOSUN architectural cladding panel systems used on exterior facade and cladding applications. It covers routine inspection, cleaning, environment-specific maintenance, damage assessment, and maintenance records.

Maintenance intervals must be adjusted to project location, pollution exposure, building height, access method, coating supplier recommendations, and the owner's approved maintenance programme. Project-specific shop drawings, system design, local regulations, and warranty documents shall govern where they are more specific.



2. Inspection Schedule

Environment	Recommended interval	Maintenance focus
Rural	Inspect 6 mo.; clean annually	Dust, rain marks, joints
Urban	Inspect 6 mo.; clean 6-12 mo.	Traffic film, airborne dirt
Coastal	Inspect 3-6 mo.; clean more often	Salt, edges, fixings
Heavy industrial	Inspect 3-6 mo.; clean as needed	Deposits, staining, corrosion
System audit	Professional review every 5 years	Panels, sealants, sub-frame

3. Cleaning Procedure

Agent	Dilution / limit	Application	Notes
Clean water	As supplied	Low-pressure rinse	Before detergent
Neutral detergent	Mild solution	Soft cloth / sponge	Routine cleaning
Mild cleaner	Approved only	Spot cleaning	Test first
IPA	<=25% in water	Local spot treatment	Grease / adhesive; rinse



3.2 Cleaning Steps

- Avoid cleaning hot panels or surfaces exposed to direct sunlight.
- Test the cleaning agent on an inconspicuous area before general use.
- Rinse first with clean water to remove loose dirt and abrasive particles.
- Apply neutral detergent or mild cleaner with a soft cloth, sponge, or low-pressure sprayer.
- Work from top to bottom; do not allow cleaner to dry on the surface.
- Rinse thoroughly with clean water after detergent use. Do not leave residue.

4. PROHIBITED METHODS

acetone, MEK, toluene, strong acid/alkali, abrasive pads and steel wool are not permitted.

- Acetone, MEK, toluene, paint thinner, or other strong organic solvents
- Strong acid, strong alkali, concentrated cleaners, or unverified removers
- Abrasive pads, steel wool, wire brushes, hard brushes, or metal tools
- Dry scraping of bonded deposits on the coated surface
- High-pressure washing, steam cleaning, or aggressive jetting unless project-approved
- Any cleaning agent not confirmed by the project maintenance team, coating supplier, or ALUCOSUN

5. Specific Stain Treatments

Stain Type	Recommended Treatment	Do Not Use
Atmospheric dirt	Water rinse, then neutral detergent	Abrasive pads
Salt deposits	Fresh-water rinse; clean more often	Dry wiping only
Bird droppings	Soften with water; gentle wipe	Dry scraping
Oil / grease	IPA <=25%; rinse after use	MEK, acetone, toluene
Adhesive residue	Mild cleaner or IPA <=25%; test first	Metal tools
Cement / mortar	Remove before hardening; seek approval	Strong acid
Unknown stain	Record location; test mild cleaner	Unverified chemicals
Persistent damage	Escalate for technical assessment	Aggressive cleaning

6. Product-Specific Maintenance

ACP FR Core B1 and ACP A2 Core

Maintain protective coating, panel joints, drainage paths, and exposed edges. Do not classify ACP FR Core B1 as A2 or non-combustible; EN fire terminology remains B-s1,d0 for ACP FR Core B1 and A2-s1,d0 for ACP A2 Core.

X Panel (3D Core Panel)

Protect large flat panel areas from point impact and local indentation. Inspect perimeter support, fixing restraint, and drainage because large-format flatness depends on the project fixing system.

Aluminium Solid Panel A1

Inspect folded edges, welded or formed zones, stiffeners, brackets, and coating continuity. Touch-up or replacement decisions should consider visibility, substrate exposure, and project finish requirements.

7. Environment-Specific Maintenance

Coastal: remove salt deposits more frequently and inspect fixings, cut edges, sealants, and drainage paths.

Industrial: remove chemical and particulate deposits promptly; increase inspection where pollution is visible.

Tropical / high humidity: monitor water retention, algae growth, sealant ageing, and cavity ventilation.

High UV / high temperature: avoid cleaning hot panels; inspect coating, sealants, and protective film residue more closely.

8. Damage Assessment & Warranty

Minor coating scratches may be assessed for approved colour-matched touch-up where the substrate is not exposed. Deep scratches, exposed aluminium, deformation, delamination, corrosion, loose fixings, or water ingress should be recorded with photographs, measurements, location, and project conditions before repair decisions are made.

Warranty assessment depends on project-specific maintenance programmes, approved shop drawings, coating supplier recommendations, local regulations, and the applicable ALUCOSUN warranty documents. These project documents always govern. Keep a maintenance log recording inspection date, cleaning agent, dilution, observations, photographs, and remedial actions.