Alpine Citadel finish and color

Select a finish that complements the building and suits the site exposure. Review Alpine Citadel galvanizing, exterior powder coating, RAL color selection, sample approval and routine care.

Zinc + powder
galvanized steel under a powder-coat finish on every part

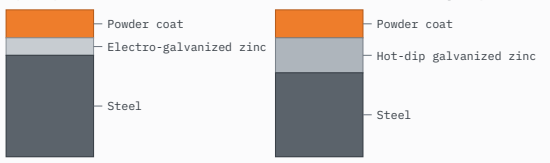
Powder coat
powder coated to Qualicoat standards, superdurable polyester with UV protection

Any RAL
color on request, specified by RAL number and gloss

Full HDG
posts for coastal and corrosive sites, by exposure

01 CORROSION-PROTECTION SYSTEM

COMPONENT	ZINC LAYER	FINISH
Base plates (line, corner, gate)	Hot-dip galvanized	Powder coat
Sleeves	Hot-dip galvanized	Powder coat
Round gate posts (8 in)	Hot-dip galvanized	Powder coat
Square posts (4 in HSS)	Electro-galvanized	Powder coat
Post channels	Electro-galvanized	Powder coat
Slats	Electro-galvanized	Powder coat



Zinc protects the steel; the powder coat protects the zinc and carries the color.

Hot-dip galvanizing to ASTM A123 (fabricated steel) and ASTM A153 (hardware), as applicable.

Powder coated to Qualicoat standards, superdurable polyester with UV protection, applied over the zinc.

Custom: Alpine offers different types of galvanizing and can hot-dip galvanize the entire structure, specified by site location and exposure (section 02).

02 COASTAL AND CORROSIVE SITES: WHEN TO HOT-DIP GALVANIZE THE ENTIRE STRUCTURE

The standard system suits most commercial sites. Where the air carries salt or aggressive industrial pollution, specify **hot-dip galvanizing of the entire structure**: a heavier zinc layer on every steel part, under the same powder coat. Use the site's ISO 9223 atmospheric corrosivity category as a guide, tell us the site location and exposure, and we confirm the recommendation with the project engineering.

CAT.	CORROSIVITY	TYPICAL EXTERIOR ENVIRONMENT	ZINC LOSS, YR 1	POSTS
C1	Very low	Dry or cold zones; very low pollution and wetness	< 0.1 µm	**Standard system**
C2	Low	Rural areas; low pollution, short time of wetness	0.1–0.7 µm	**Standard system**
C3	Medium	Urban and light industrial; sheltered coast, low salt	0.7–2.1 µm	**Standard system**
C4	High	Industrial areas; coast with moderate salt deposition	2.1–4.2 µm	**Hot-dip galvanize entire structure**
C5	Very high	Aggressive industrial; coast with high salt deposition	4.2–8.4 µm	**Entire structure HDG + review**
CX	Extreme	Offshore and extreme industrial exposure	8.4–25 µm	**Project review**

Local exposure counts. Treat as C4 or worse, whatever the regional category: splash from roads and lots treated with de-icing salt, wash-down and compactor leachate areas, fertilizer, pool or process-chemical storage, cooling-tower drift.

Source: ISO 9223:2012, *Corrosion of metals and alloys — Corrosivity of atmospheres — Classification, determination and estimation* (first-year zinc corrosion rates); environments condensed from the American Galvanizers Association, "HDG Corrosion Rates for ISO Categories C1–C5/X." General guidance; site conditions govern.

03 COLOR: ANY RAL

RAL Classic is the European reference color collection used across architecture and industry. Each color has a four-digit number and a name, e.g. **RAL 7016 Anthracite Grey**; the first digit is the color group (1 yellow, 2 orange, 3 red, 4 violet, 5 blue, 6 green, 7 grey, 8 brown, 9 white and black). Alpine Citadel is available in any RAL Classic color.

How to specify

- **RAL number and name**, e.g. “RAL 7016 Anthracite Grey.”
- **Gloss level** (matt, semi-gloss or gloss) and **texture** if required (smooth or fine texture).
- **Building match:** send a physical sample of the building color; we propose the nearest RAL for approval.

Sample and approval

1. Specify RAL number, gloss and texture on the order or submittal.
2. We supply a powder-coated steel sample in that finish.
3. Review it on site, in daylight, beside the materials it must match.
4. Approve it in writing; production starts only after approval.
5. The approved sample is the project color standard, including future phases.

Screen and print colors vary. Choose from a physical RAL fan deck and approve a coated sample; never approve a color from a screen or a printout.

Commonly specified architectural colors

EXAMPLES — ANY RAL AVAILABLE

RAL 9005	RAL 7021	RAL 7016	RAL 7039	RAL 7035	RAL 8019	RAL 9006	RAL 9010	RAL 1015	RAL 6005
Jet Black	Black Grey	Anthracite Grey	Quartz Grey	Light Grey	Grey Brown	White Aluminium	Pure White	Light Ivory	Moss Green
≈ #0A0A0D	≈ #2E3234	≈ #373F43	≈ #6B695F	≈ #CBD0CC	≈ #3F3A3A	≈ #A5A8A6	≈ #F7F9EF	≈ #E6D2B5	≈ #0F4336

On-screen and printed colors are approximate; approve physical samples. Swatches are approximate sRGB conversions from published RAL Classic references; the binding reference is the physical RAL fan deck. RAL is a trademark of RAL gGmbH.

04 CARE AND MAINTENANCE

Washing

- At least yearly; every 3–6 months at coastal and industrial sites or where de-icing salt reaches the steel.
- Mild pH-neutral detergent, soft brush, fresh-water rinse. Rinse off food waste, grease and leachate promptly.
- No solvents, abrasive pads or strong acid or alkaline cleaners; pressure washers on a wide fan, low pressure.

Touch-up

- Color-matched touch-up material is furnished with every kit.
- Repair chips and scratches when found: clean, remove loose coating or rust, dry, then apply thin coats to the damaged area only.

Inspection

- Yearly and after any impact: chips or rust staining, especially at base plates, anchors and gate posts.
- Plates clear of trash, soil and piled snow; no standing water.
- Gates swing, latch and hold open freely; lubricate hardware as needed.
- Fasteners and caps tight. Keep a record of care.

SPECIFYING THE FINISH

```
Finish:    galvanized steel, powder coated to Qualicoat standards,
           superdurable polyester with UV protection
Color:     RAL ____  _____________   Gloss: __________
Galv.:     [ ] standard   [ ] entire structure hot-dip galvanized
Exposure:  ISO 9223 category C__   Site: _____________
```

Samples and questions

alpineenclosures.com
info@alpineenclosures.com · (303) 720-6876

Alpine Enclosure Systems is a division of Alpine International Trading Co. Alpine Citadel is engineered per project; finish, color and exposure recommendations shown are typical and are confirmed for each project. Corrosivity categories are general guidance; site conditions govern. Colors shown are approximate. Specifications subject to change. © 2026 Alpine International Trading Co.