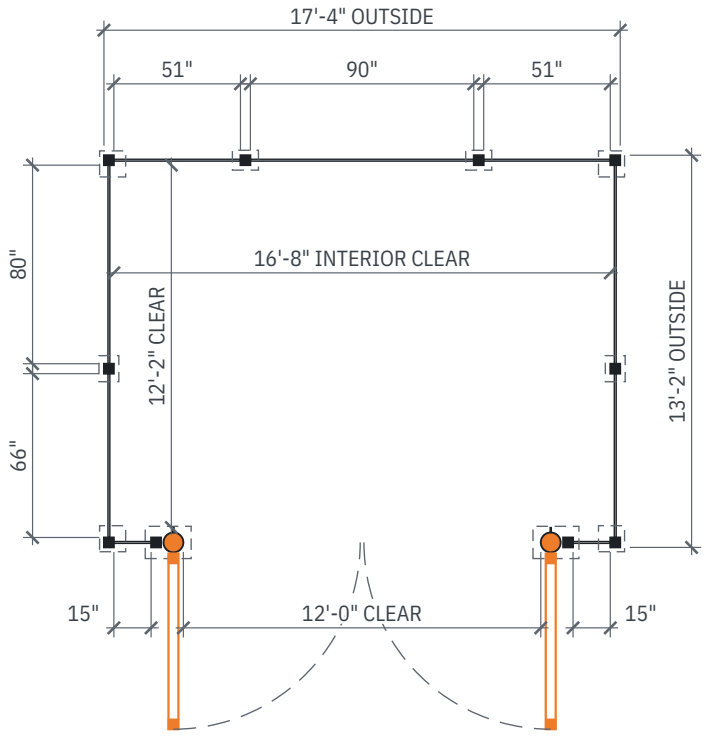
Alpine Citadel Single nominal 12 × 16 ft · TE-S12F

Single enclosure for one front-load container, with room beside it for recycling and organics carts. 8 ft shown; 6 ft and 7 ft variants use the same plan. Any size is built to your site; this example is published for comparison.

17'-4" × 13'-2"	16'-8" × 12'-2"	12 ft clear	1 container
outside footprint	interior clear	double-leaf gate, swings out	front-load, 2–8 yd, plus carts

01 PLAN

TYPICAL — ENGINEERED PER PROJECT



Plan, 8 ft. Bays are clear widths between post faces (in). Interior depth: back posts to the gate-post line.

LEGEND

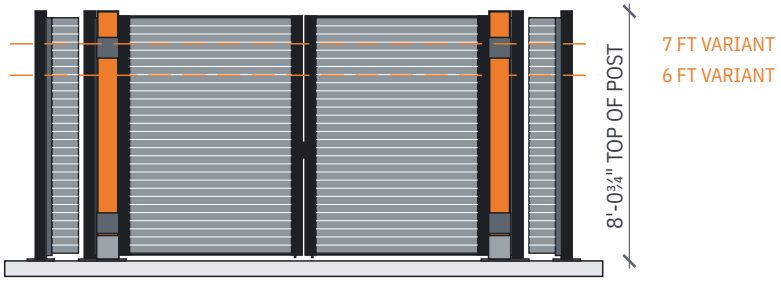
- 4 in square steel post (corner, line, end)
- 8 in round steel gate post
- Solid slat wall, 100% opaque
- Base plate outline (under post)
- Gate leaf shown open 90°, swings out

KEY DIMENSIONS

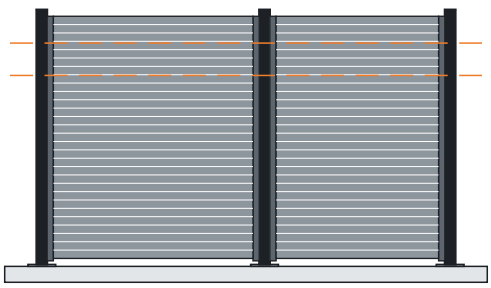
Outside	17'-4" × 13'-2" 208 × 158 in
Interior	16'-8" × 12'-2" 200 × 146 in clear
Gate	1 × 12'-0" clear double leaf, swing out
Bays	9 · 42'-10" of wall clear widths, post face to post face
Posts	10 square + 2 round
Plates	10 base plates · 48 anchors ¾ in

02 ELEVATIONS

TYPICAL — ENGINEERED PER PROJECT



Front (gate) elevation, 8 ft standard. Dashed: top of post at 7 ft and 6 ft.



Side elevation, left (right opposite hand). 80" and 66" bays.

03 BAY SCHEDULE

WALL	BAYS, CLEAR (IN)	BAYS	RUN
Back wall	51" · 90" · 51"	3	17'-4" outside
Left side	80" · 66"	2	13'-2" outside
Right side	80" · 66"	2	13'-2" outside
Gate wall	15" · gate · 15"	2	12'-0" clear gate between 15" bays
Total	**42'-10"**	**9**	**of slat wall**

POST TYPE	DESCRIPTION	QTY
Corner post	4 in square, on a corner plate	4
End post	4 in square, on the gate plate	2
Line post	4 in square, on a line plate	4
Round gate post	8 in round, on the gate plate	2
Total		**12**

Gate: one 12'-0" clear, double leaf (2 equal leaves), swing out; lockable latch box, cane bolts with slab sleeves, hold-open cane bolts; function-tested before shipping.

Slats: 29 courses per bay at 8 ft, captive in welded channels, stacked tight; middle slats unfastened, top and bottom slat of each bay bolted; bottom slat 3 in above the slab. Bays within the standard set (≤ 96 in).

04 INTERIOR CLEAR AND CAPACITY

Width	16'-8" (200 in) between side-post faces
Depth	12'-2" (146 in) from back posts to the gate-post line
Gate	12'-0" clear per container opening

One front-load container (2–8 yd) plus a row of recycling or organics carts beside it, so carts stay clear of the gate.

Suits: Single-container sites: restaurants, QSR, retail and offices, with or without recycling carts.

05 BASE PLATES, ANCHORS AND SLAB

PLATE	SIZE (GALV.)	QTY	ANCH.	TOTAL
Line	10½ × 8 × ¾ in	4	4	16
Corner	10½ × 10½ × ¾ in	4	4	16
Gate (shared)	18½ × 13 × ¾ in	2	8	16
Total		**10**		**48**

- ¾ in anchors, type engineered per project: adhesive threaded rod or code-listed mechanical anchor.
- Slab by the project engineer to Alpine's requirements: f′c ≥ 4,000 psi; 12 in thick at the 8 line and corner posts; 30 × 30 × 12 in at the 2 gate plates; full depth ≥ 6 in beyond the outermost anchor.

06 HEIGHTS

HEIGHT	COURSES	POST TOP	SLAT TOP
8 ft (standard)	29	8'-0¾"	7'-10⅜"
7 ft	25	7'-0¼"	6'-9¾"
6 ft	21	6'-0"	5'-9⅛"

Same plan, plates, anchors and slab at every height; measured from the slab. Fences up to 7 ft are generally permit-exempt (IBC §105.2); 8 ft usually needs a permit. Confirm locally.

07 OPTIONS AND CUSTOM

Height	6 ft or 7 ft on the same plan; 5 ft to 10 ft custom.
Gates	12 ft or 16 ft clear, double leaf (standard); 20 ft clear, 6 ft single leaf, corner-hinged and multiple gates (custom).
Plan	Any size, angle or shape, solved to your drawing.
Infill	Spaced slats for airflow; perforated metal panels.
Site	Bollards, typically two per container; pedestrian gate; steel roof; embedded posts.
Finish	Any RAL color; the entire structure can be hot-dip galvanized for corrosive sites.

08 BASIS OF DESIGN

for specifiers — copy into the project specification

BASIS-OF-DESIGN PRODUCT

Alpine Citadel structural steel slat enclosure by Alpine Enclosure Systems, example configuration Single (TE-S12F): 17'-4" × 13'-2" outside, 8 ft high, one 12 ft clear double-leaf gate, swing out, on 8 in round steel gate posts. 4 in square structural steel tube posts on hot-dip galvanized ¾ in base plates with ¾ in anchors to a concrete slab, f′c ≥ 4,000 psi. Captive solid steel tube slats, 0.79 × 3.15 in, 100% opaque, only the top and bottom slat of each bay bolted through the channels. Galvanized steel, powder coated to Qualicoat standards, superdurable polyester with UV protection, color RAL [____]. Designed to ASCE 7-22 for the project's wind speed, exposure category and risk category; sealed calculations by the manufacturer.

Guide spec Section 32 31 19 (cross-reference 32 35 00). Typical configuration shown. Each project is engineered to ASCE 7-22 for its own wind speed, exposure category and risk category; steel per AISC 360; anchorage per ACI 318 Chapter 17. Member sizes, base plates, anchors and foundations are confirmed by project engineering. Submittals: layout and bay schedule, product data, sealed calculations, finish.

Alpine Enclosure Systems is a division of Alpine International Trading Co. Alpine Citadel is engineered per project; the plan, bays, heights, plates, anchors and slab shown are typical and confirmed by project engineering. Footprint dimensions nominal, ±1 in. alpineenclosures.com · © 2026 Alpine International Trading Co.