

BarrierBoss® Deep South™ FireSmart® Metal Fence

Industrial-Strength, All-Metal Prefab Fence Panels – Part of the Forever Fence™ System

Product Overview

The Deep South™ Fence is an industrial-strength, hurricane-tested, fireproof, and weatherproof metal fence panel system. Designed for residential, commercial, and industrial properties, this all-steel solution is part of BarrierBoss®'s Forever Fence™ system and engineered to last a lifetime.

Dimensions & Sizing

- **Height Options:** 4', 5', 6', 7', 8'
- **Width Options:** 6' (72"), 8' (96"), custom widths available
- **Panel Thickness:** 2mm steel (heavier than typical 1.2–1.6mm panels)
- **Post Sizes:** 4"x4" and 5"x5" steel posts
- **Panel Orientation:** Vertical or horizontal
- **Grid/Panel Options:** 7/8" corrugated, or deep groove/ribbed infill

Material & Finish

- **Core Material:** Galvanized steel
- **Surface Finish:** Long lasting HDP (High Durability Polyester) paint with industry-leading rustproofing
- **Color Options:** Midnight Black, Coastal Gray, Silver/Galvalume, Coffee Brown, Cream
- **Fire Rating:** FireSmart® Certified
- **Weathering:** Salt, UV, and wind tested

Performance & Strength

- **Durability:** Built to withstand hurricanes, wildfires, and harsh weather
- **Maintenance:** Low-maintenance; damaged panels are easy to replace
- **Installation:** Minimal hardware; panels slide into U-channels; 4 bolts per panel required
- **Compatibility:** Can accept infill up to 1" thick for design flexibility
- **Commercial & Residential:** Rated for all property types

Compliance & Certification

- FireSmart® Certified
- HOA & Strata Approved
- Industry-leading corrosion resistance and structural dimensions
- Meets or exceeds comparable prefab metal fence standards in North America

Complete Kit Includes

- Top rail, bottom rail, left and right U-channels
- Heavy-duty steel posts (4"x4" or 5"x5")
- Carriage bolts and assembly hardware
- Optional post caps
- Built-in weep holes for water drainage

Installation Notes

- Track mounting points feature slotted holes for easy alignment
- Panels slide into U-channels for fast assembly
- Ideal for straightforward installations without complex tools
- Designed to reduce fasteners, nails, or screws

Shipping & Availability

- Ships in-house across the USA and Canada
- National shipping network with BarrierBoss® or third-party carriers
- Custom quotes available for remote or island deliveries

Warranty & Longevity

- 40-year warranty on all steel components
- Proven long-term durability under extreme conditions

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Technical Specifications

Base Material: Mild Steel (Structural Grade). All fence frames, posts, U-channels, and gate members are fabricated from high-strength mild steel, offering an optimal balance of ductility, weldability, and structural performance.

Typical thicknesses after coating:

- Fence frames / posts / U-channels: 3.0 mm
- Gate outer frame: 4.0 mm
- Gate inner members: 3.0 mm
- Coating thickness: Dip-coated to ~80–100 µm for corrosion protection and aesthetic finish.

Fire Resistant Characteristics

Steel is non-combustible and does not contribute to flame spread or fuel load in a fire scenario.

- Powder-coated finishes may exhibit minor surface combustion, but burn out rapidly and do not sustain flame propagation.
- When exposed to fire, structural integrity is maintained until temperatures exceed the steel's critical yield range (~600°C).

Classification: The fence frames and gates can be regarded as “non-combustible” assemblies per standard fire-resistance evaluation practices.

Strength of Base Material

Mild steel mechanical properties (typical):

The yield strength (fy) of structural carbon steel typically falls between 240 and 350 MPa, depending on the grade, such as A36, Q235, or S275. The ultimate tensile strength (fu) generally ranges from 370 to 550 MPa, which is common for most structural-grade steels. Meanwhile, the modulus of elasticity (E) remains constant for carbon steels at approximately 200 GPa.

These values ensure the frames exhibit excellent load-bearing performance, impact resistance, and long-term durability under outdoor exposure.

Wind Load Rating

The fence system is structurally designed to withstand wind pressures of 0.8–1.0 kPa, equivalent to 100–120 km/h (≈ 62–75 mph) wind speeds.

Typical engineering checks include:

- Post bending moment and deflection limits
- Rail-to-post connections under shear and moment transfer
- Gate frame rigidity and hinge alignment under dynamic loading

Design parameters assume proper post spacing, foundation anchorage, and installation per manufacturer guidelines.

Post Embedment

For secure structural performance and resistance to overturning moments:

- Minimum embedment depth: ≥ 1/3 of total post height (e.g., an 8 ft post should be embedded at least 32 in below grade)
- Posts should be set in concrete footings with suitable diameter and compressive strength based on soil conditions.
- Extended embedment or larger footing diameters are recommended in high-wind or low-density soil zones.

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