



**CACTUS  
FENCE &  
CONSTRUCTION**

# The Rosharon Cedar Protocol: Engineering Longevity

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**The "Cedar Protocol": Why Material Selection is the Foundation** In the Texas Gulf Coast, a fence is not just a boundary—it is an engineering project. The humidity, seasonal soil shift, and salt-air corrosion in Rosharon and the Greater Houston area require a specific material strategy. We do not use standard "off-the-shelf" materials. We utilize **Western Red Cedar (WRC)**, graded for structural integrity and aesthetic consistency. Unlike treated pine, which is susceptible to warping and twisting in high-heat cycles, Western Red Cedar contains natural oils that provide inherent resistance to rot, decay, and termite infestation. This is the cornerstone of a 20+ year fence.

## **Wind-Load Engineering: The Shadow Box Advantage**

The "Sail" Problem: Standard solid-privacy fences act as large sails during Texas storm systems. This puts massive torque on the posts and hinges.

The Cactusfence Shadow Box Solution:

- **Air-Flow Integration:** By alternating the picket layout on the interior and exterior of the rails, we allow up to 40% wind pass-through while maintaining 100% visual privacy for the homeowner.
- **Lateral Stability:** We reinforce these builds with a 3-Rail Structural System. A 2x4x8 pressure-treated center rail adds 50% more lateral stability compared to the industry-standard 2-rail setup, effectively eliminating the "picket blowout" and bowing common after heavy wind events.

## **The 36-Inch Foundation Standard**

Soil Mechanics in Rosharon & Pearland: Our area sits on Blackland Prairie clay, which expands and contracts violently with moisture changes. A standard 24-inch footing is insufficient to anchor against this shift.

- **The 36-Inch Protocol:** Our team excavates to 36 inches, bypassing the active soil layer to reach stable ground.
- **Structural Bond:** We use a high-bond structural concrete mix. We create a wide-diameter collar at the base of every post. This anchors the fence into the earth, preventing the "leaning" effect that plagues 90% of residential fences within their first five years.

**Long-Term Performance & Maintenance** The Lifetime Philosophy: We believe in a "Life-Cycle Cost" model. While cheap materials require replacement or extensive repair within 5 years, our cedar installations are engineered for a 20+ year service life.

- **Sealant Science:** Cedar must breathe. We recommend an oil-based, high-penetrating stain applied 4–6 weeks post-installation. This locks in the natural beauty and provides UV protection against the Texas sun.
- **Hardware Integrity:** We use exclusively Hot-Dipped Galvanized ring-shank nails and stainless steel gate hardware to ensure zero rust-bleed—the primary reason fences look "old" before they actually are.

**Ready to build a fence that lasts?**

- **Contact Arthur Flores & The Team:** (713) 907-5975
- **View Technical Specs:** <https://cactusfence.com/fence-design-installation/>