



## Regency Accordion Shutter – Architectural Specification

### ALUMINUM ACCORDION SHUTTER (MITIGATION BARRIER)

#### PURPOSE:

**This document provides the necessary requirements for Submittals, Approvals and Instructions for Architectural and Product Specifications related to Roller Star USA Regency Accordion Hurricane Shutter System.**

#### SECTION 1 of 4 - GENERAL

##### 1.1 Submittals

- 1.1.1 Submit specified submittals to the architect for approval.
- 1.1.2 Submit manufacturer's product data including, installation instructions and Product Approvals.
- 1.1.3 Building footprint: Submit shop drawings showing building footprint indicating local PSF requirements of each fabricated unit. Note end zones and specific pertinent building requirements.
- 1.1.4 Submit color samples to the architect for approval prior to ordering from the manufacturer.
- 1.1.5 Submit Manufacturer's Quality Assurance Certificate from UL (Underwriters Laboratories) Windstorm Products Quality Assurance Program.
- 1.1.6 Submit operating and maintenance instructions from the manufacturer.
- 1.1.7 Submit minimum 5-year parts warranty direct from the manufacturer.
- 1.1.8 Submit minimum 1-year labor warranty from the product dealer / installer.

##### 1.2 Installation Requirements

- 1.2.1 Use only licensed qualified installers.
- 1.2.2 Comply with all local and governing building code requirements.
- 1.2.3 Comply with General Contractor or Developer meetings and/or pre-installation schedules and meetings.

### 1.3 Ordering, Delivery, Storage and Handling

- 1.3.1 Provide field measurements before ordering. Show recorded field measurements on manufacturer's order form or equivalent.
- 1.3.2 Deliver shutters in manufacturer's original boxes, unopened.
- 1.3.3 Immediately upon delivery open all boxes and inspect for product compliance and/or shipping damage. Review Manufacturing Inspection Reports for accuracy. Report all imperfections and/or unacceptable materials to the manufacturer upon knowing or should have known of the imperfections or shipping damage.
- 1.3.4 Provide on-site storage, protection of materials and security of the shutters and accessories.

### 1.4 Warranty

- 1.4.1 Provide minimum 5-year parts warranty direct from manufacturer.
- 1.4.2 Provide minimum 1-year labor warranty from the seller.

### 1.5 Product

- 1.5.1 Regency Accordion Shutter Reference Code: ACCR

### 1.6 Manufacturer

- 1.6.1 Roller Star USA  
3029 NW 25<sup>th</sup> Avenue  
Pompano Beach, Florida 33069  
(954) 328-5277

[rollerstarusa@aol.com](mailto:rollerstarusa@aol.com)  
[www.rollerstarusa.com](http://www.rollerstarusa.com)

## SECTION 2 of 4 – PRODUCT MATERIAL SPECIFICATIONS

### 2.1 Tracks, Blades and Angles

- 2.1.1 Extruded aluminum alloy 6063-T6
- 2.1.2 Minimum wall track thickness: .125"
- 2.1.3 Minimum floor track thickness: .078"

## 2.2 Six Pre-treatment Steps in Surface Preparation

- 2.2.1 Sulfuric acid etch (dip)
- 2.2.2 2-stage water rinsing process (dip)
- 2.2.3 Single stage alkali solution (dip)
- 2.2.4 Single stage water rinsing (dip)
- 2.2.5 Chromium phosphate coating (dip)
- 2.2.6 Final stage water rinsing (dip) dry

## 2.3 Coating

- 2.3.1 DuPont polyester resin
- 2.3.2 6-8 mill thick
- 2.3.3 Powder coat applied
- 2.3.4 Smooth glossy
- 2.3.5 Colors: White, Beige, Ivory, Bronze

## 2.4 Mortise Lock

- 2.4.1 Designed for aluminum or steel entrance doors.
  - A. 1" x 6" steel case and mechanism.
  - B. Zinc plated for corrosion protection.
  - C. Both mortise locks accept any standard 1-5/32" mortise cylinder or thumb turn from either or both sides.
  - D. 360-degree turn of key (or thumb turn) actuates a simple pivoting mechanism, which in turn throws or retracts the counter balanced stainless steel bolt.
  - E. Heavy-duty five-ply 304 stainless steel bolt with concealed hardened steel pin.
  - F. Clear anodized aluminum faceplate.
  - G. 410 Stainless steel fasteners for the faceplate.
  - H. Clear anodized zinc die cast cylinder mortise lock or thumb turn.
  - I. Aluminum catch.
  - J. Countersunk Pop Rivet 3/16"x 3/8" Dome Head (protruding) self-plugging.

## 2.5 Wheel Assembly

- 2.5.1 Nylon UV protected wheels
- 2.5.2 Stainless steel wheel carriage
- 2.5.3 Fastener: Xylan coated SS # 14 x 2-3/4" lg. screws

- 2.6 Ferrules
  - 2.6.1 Nylon UV protected bushing guides and spacers
  - 2.6.2 Fastener: Xylan coated SS # 14 x 2-3/4" lg. screws
- 2.7 Fabrication Fasteners
  - 2.7.1 410 Stainless steel self drilling screws (unless otherwise noted)
  - 2.7.2 Countersunk Pop Rivet 3/16"x 3/8" Dome Head (protruding) self-plugging.
- 2.8 Operation
  - 2.8.1 Manual: The accordion shutter is unfolded across the opening.
  - 2.8.2 Engage lock.

**SECTION 3 of 4 – LABELING**

- 3.1 Fabricated units bear the following tamper resistant label:



**SECTION 4 of 4 – INSTALLATION**

- 4.1 Attach fabricated units to the host structure in strict conformance to Regency Installation Drawings number 09-02, sheets 1-7, dated May 06, 2009.
  - 4.1.1 Install all fasteners in strict conformance to the manufacture's recommendations.