

EXTERIOR ROLLING SHUTTERS

SecuraMax RLL 4 System

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. This section shall include the furnishing of all plans, labor, materials, and services necessary for the installation of all Rolling Shutters covering exterior windows, doors or wall openings.

1.02 RELATED SECTIONS

- A. Section 16300 - Wiring Devices, Wire & Cable: Electrical connection for motor operators.

1.03 SUBMITTALS

- A. Submit under provisions of Section 01300 and Section 01600.
- B. Product Data: Submit manufacturer's data sheets on each product to be used, including operation and maintenance data.
- C. Shop Drawings: Indicate mounting configuration, electrical connections, access to operating mechanism, attachment and mounting to adjacent construction, rough dimensions and accessories.
- D. Samples: Manufacturer's available standard System colors/patterns and optional colors/patterns for selection by Architect.

1.04 QUALITY ASSURANCE

- A. Installer Qualifications: Minimum 2 years documented experience in applications with similar scope and materials, or manufacturer trained installer.
- B. Regulatory Requirements:
 - 1. Unless specified otherwise, for exterior installations comply with wind load requirements of the project.
 - 2. Comply with all local and governing code requirements.
 - 3. Hold a pre-installation meeting to verify installation condition, sizes, wind load requirements, and manufacturer's instruction.
 - 4. Do not proceed with remaining work until material, details, workmanship, performance and color are approved by Architect.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
 - 1. Warranty
 - 2. Refer to manufacturer's standard warranty stated in the Terms and Conditions.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable Manufacturer: Rollac Shutter of Texas, Inc.; 5331 W. Orange Street, Pearland, TX 77581. ASD. Toll Free Tel: 888-2-ROLLAC. Tel: 281-485-1911. Fax: 866-2-ROLLAC. Email: architects@rollac.com. Web: <http://www.rollac.com>.
- B. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.02 EXTERIOR ROLLING SHUTTER SOLUTIONS

- A. Roll-Up Shutters: Slat curtain coiled on overhead axle mounted in enclosed housing as manufactured by Rollac Rolling Shutter. Size, configuration, and mounting as indicated on drawings.
- B. SecuraMax RLL 4 System: Slat curtain coiled on overhead axle mounted in enclosed housing as manufactured by Rollac Shutter of Texas, Inc.
 - 1. Configuration and mounting as indicated on drawings.
 - 2. Compliance: Meets windstorm criteria of IBC/IRC, FBC, TDI, Miami Dade County, and large missile impact.
 - 3. Hollow Extruded Aluminum Profile:
 - a. Aluminum: Alloy 6063-T5.
 - b. Wall Gauge: 1.53 mm thickness.
 - 4. Guide Rails: 2-1/2 inches (64 mm).
 - 5. Guide Rails: 3 inches (76 mm).
 - 6. Guide Rails: Size as indicated on Drawings.
 - 7. Guide Rails: Size as selected by Architect.
 - 8. Finishes: System Color, White.
 - 9. Finishes: System Color, Cream.
 - 10. Finishes: System Color, Beige.
 - 11. Finishes: System Color, Bronze.
 - 12. Finishes: As indicated on Drawings.
 - 13. Finishes: As selected by Architect.
 - 14. Finishes, Curtain: Special Curtain Color, Metallic.
 - 15. Finishes for Rails, Bottom Bar, Sidecaps, and Housing: Manufacturer determined 'Best Match' with Special Curtain Color specified.
 - 16. Finishes for Rails, Bottom Bar, Sidecaps, and Housing: White.
 - 17. Finishes for Rails, Bottom Bar, Sidecaps, and Housing: Cream.
 - 18. Finishes for Rails, Bottom Bar, Sidecaps, and Housing: Beige.
 - 19. Finishes for Rails, Bottom Bar, Sidecaps, and Housing: Bronze.
 - 20. Finishes for Rails, Bottom Bar, Sidecaps, and Housing: As indicated on Drawings.
 - 21. Finishes for Rails, Bottom Bar, Sidecaps, and Housing: As selected by Architect.

2.03 EXTERIOR ROLLING SHUTTER OPERATORS

- A. Manual Operators: As manufactured by Rollac Shutter of Texas, Inc.
 - 1. Type: Pull Strap; pulley system and strap crank box with tape and crank handle.
 - 2. Type: Recoil Box; pulley system and recoil box with tape
 - 3. Type: Gear with Crank; gear system, crank handle and crank handle holder.
 - 4. Type: Counter Balance/Spring Operated; spring, push/pull handle.
 - 5. Type: As indicated on Drawings.

6. Type: As selected by Architect.
- B. Automatic Operators: As manufactured by Rollac Shutter of Texas, Inc.
7. Type: Thermally protected tubular motor and switch, single phase, 120VAC-60HZ, max. 3.8 amps, UL listed.
 8. Type: Thermally protected tubular motor with manual override and switch, single phase, 120VAC-60HZ, max. 3.8 amps, UL listed.
 9. Type: Thermally protected tubular motor with remote control, single phase, 120VAC-60HZ, max. 3.8 amps, UL listed.
 10. Type: Thermally protected tubular motor with remote control and manual override, single phase, 120VAC, max 3.8 amps, UL listed.
 11. Type: As indicated on Drawings.
 12. Type: As selected by Architect.
- C. Operators: As recommended and manufactured by Rollac Shutter of Texas, Inc.
- D. Operator Housing Assembly: Housing to host necessary mechanics and axle, as manufactured by Rollac Shutter of Texas, Inc..
13. End Caps: Aluminum die casted end caps
 14. Housing: Roll formed, 0.040 inches (1 mm) thickness.
 15. Style: 45 Degrees.
 16. Style: 90 Degrees.
 17. Style: As indicated on Drawings.
 18. Style: As selected by Architect.
 19. made of (Aluminum, Steel).
 20. Box Size: 6 inches (150 mm).
 21. Box Size: 6-1/2 inches (165 mm).
 22. Box Size: 7 inches (180 mm).
 23. Box Size: 8 inches (205 mm).
 24. Box Size: 9 inches (230 mm).
 25. Box Size: 10 inches (250 mm).
 26. Box Size: 12 inches (300 mm).
 27. Box Size: 14 inches (350 mm).
 28. Box Size: To match manufacturer's recommendation on housing size for rail height.
 29. Box Size: As selected by Architect from manufacturer's standard range of box sizes for products specified.
 30. Box Size: As indicated on Drawings.
 31. Axle Material: Aluminum.
 32. Axle Material: Steel.
 33. Axle Material: As selected by Architect.
 34. Axle Material: As indicated on Drawings.
 35. Axle Size: 40 mm.
 36. Axle Size: 60 mm.
 37. Axle Size: 70 mm.
 38. Axle Size: 100 mm.
 39. Axle Size: As selected by Architect from manufacturer's standard range of axle sizes for box size specified.
 40. Axle Size: As indicated on Drawings.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Do not begin installation until substrates are within manufacturer's specified tolerances and have been prepared in accordance with manufacturer's instructions.
- B. If substrate preparation is the responsibility of another installer, do not proceed with Installation. Notify Architect of unsatisfactory preparation immediately.
- C. Commencement of work is deemed as acceptance of installation conditions.

3.02 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Adjust for proper operation.

3.03 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products and finishes before Substantial Completion.

END OF SECTION