SECTION 12 23 00
INTERIOR SHUTTERS

ShutterSMART™ AllView Plus™ Polyresin Shutters

PART 1 GENERAL

1.01 SUMMARY

A. Section includes: factory-fabricated, custom-sized interior polyresin plantation shutters with concealed rear tilt rods, frames, hinges, track hardware and installation accessories.

B. Related sections:

1. Section 06 10 00, Rough Carpentry: blocking and backing.
2. Section 06 20 00, Finish Carpentry: casings and trim.
3. Section 08 50 00, Windows.
4. Section 09 91 00, Painting.

1.02 REFERENCES

A. NFPA 701, Standard Methods of Fire Tests for Flame Propagation of Textiles and Films.

1.03 SUBMITTALS

A. Product data: manufacturer's specification sheet and installation manual.

B. Shop drawings: opening schedule showing field-verified sizes, mount type, frame style, panel configuration, louver size, color, hinge side and divider rail locations.

C. Samples: finish samples in each selected color and one louver sample in each selected size.

D. Test reports: independent laboratory NFPA 701 test report for the product specified.

E. Warranty: sample copy of manufacturer's Limited Lifetime Warranty.

F. Maintenance data: manufacturer's care and cleaning instructions for inclusion in operation and maintenance manuals.

1.04 QUALITY ASSURANCE

A. Manufacturer qualifications: a firm with a minimum of 30 years of experience manufacturing custom interior shutters.

B. Single source responsibility: provide interior shutters from one manufacturer for the entire project.

C. Field measurements: verify actual opening dimensions by field measurement before fabrication and indicate them on shop drawings.

D. Mock-up: Install one shutter in a typical opening for Architect approval. Approved mock-up may remain as part of the Work.

1.05 DELIVERY, STORAGE AND HANDLING

A. Deliver shutters in manufacturer's original packaging, labeled with manufacturer, product and opening identification.

B. Store flat, indoors, in a clean and dry area protected from construction damage.

C. Do not install shutters until wet work, painting and finishing in the space are complete.

1.06 WARRANTY

A. Provide manufacturer's Limited Lifetime Warranty against defects in materials and workmanship, in accordance with the manufacturer's published warranty terms.

PART 2 PRODUCTS

2.01 MANUFACTURER

A. Basis of design: ShutterSMART™, a division of US Polymers Inc., 1057 S. Vail Avenue, Montebello, California 90640. Telephone (800) 737-4569. shuttersmart.com.

B. Product: AllView Plus™ Polyresin Shutters.

C. Substitutions: in accordance with Division 01 requirements. Proposed substitutions shall document equivalent panel width, concealed tilt operation, flammability test results and warranty.

2.02 MATERIALS

A. Shutter components: 100% rigid polyresin (PVC) extrusions, extruded by US Polymers in Los Angeles, California.

B. Finish: DuraTex™ integral matte finish. Paint-free; no field painting or refinishing required.

C. Colors: White or Swiss Coffee as selected by Architect.

D. Hinges: color-matched to shutter finish, attached at the factory.

2.03 SHUTTER PANELS

A. Louvers: 3 inch or 4 inch, as scheduled.

B. Tilt operation: AllView concealed rear tilt rod on every panel.

C. Maximum panel width: 34 inches.

D. Maximum panel height: 104”. Provide divider rails as required by the manufacturer’s size standards, at locations indicated on shop drawings.

E. Operation: cord-free; no cords, loops or chains.

2.04 CONFIGURATIONS

A. Hinged panels: panels hinge to the frame and fold left or right in 1, 2, 3 or 4 panel layouts, as scheduled.

B. T-posts: fixed vertical posts dividing wide openings, with panels folding from each side, where scheduled.

C. Bypass track: top-track systems with panels sliding past one another, for sliding glass doors and wide openings, where scheduled.

D. French doors: panels sized for door leaves with clearance for door hardware, where scheduled.

E. Arch tops: ShutterSMART poly arches, color-matched to AllView Plus panels, where scheduled.

2.05 FRAMES

A. Frames: manufacturer’s standard frame styles for inside mount or outside mount, selected from 11 available styles, mitered and joined at corners, built to each opening.

2.06 PERFORMANCE

A. Flammability: tested in accordance with NFPA 701 by QAI Laboratories.

B. Moisture: polyresin construction suitable for high-humidity interior rooms, including bathrooms and kitchens.

2.07 FABRICATION

A. Custom fabricate each shutter to field-verified opening dimensions.

B. Ship panels pre-hinged from the factory.

C. Lead time: 2 to 3 weeks from order confirmation. Large projects receive a delivery schedule at order confirmation.

D. Origin: profiles extruded by US Polymers in Los Angeles, California, USA; shutters assembled at the manufacturer's Tijuana, Mexico plant.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine openings for square, plumb and level conditions, and for blocking and backing where required. Notify the Architect in writing of unsatisfactory conditions. Do not proceed until they are corrected.

3.02 INSTALLATION

A. Install shutters in accordance with the manufacturer's installation manual and approved shop drawings.

B. Install frames level, plumb and square, secured with fasteners appropriate to the substrate.

3.03 ADJUSTING

A. Adjust panels for smooth operation, even reveals, proper alignment and closure, and uniform louver tension.

3.04 CLEANING AND PROTECTION

A. Clean shutters with a damp cloth and mild soap. Do not use abrasive cleaners or solvents.

B. Protect installed shutters from damage until Substantial Completion. Repair or replace damaged components.

END OF SECTION 12 23 00