

Architectural Mall, Inc C-PVC Shutters

SECTION 10712

COMPOSITE EXTERIOR SHUTTERS AND ACCESSORIES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Functional exterior shutters.
- B. Exterior shutter hardware.

1.2 RELATED SECTIONS

- A. Section 09900 - Paints and Coatings.

1.3 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Shop Drawings: Show materials, layout, dimensions, profiles, fasteners and anchors, hardware, finishes, and interface with adjacent construction.
- C. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's 40 standard colors.
- E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and textures.

1.4 QUALITY ASSURANCE

- A. Thermal Stability: Fiberglass louvers and side rails thermally stable from minus 100 degrees F (minus 38 C) to 200 degrees F (93 C).

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to site in manufacturer's original, unopened packaging, with labels clearly identifying product name and manufacturer.
- B. Store products in manufacturer's unopened packaging until ready for installation.
- C. Store materials in a clean, cool and dry area in accordance with manufacturer's instructions. Do not leave unopened shutters in direct sunlight.
- D. Protect materials during handling and installation to prevent damage.

1.6 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.7 WARRANTY

- A. Provide with a limited lifetime warranty on structural components and manufacturers defects and factory applied finish. Warranty is limited to the original purchaser.
- B. Provide a limited ten year warranty on structural components and factory applied paint finish.
- C. Provide a limited three year warranty on structural components and manufacturers defects.

PART 2 PRODUCTS

2.1 MANUFACTURERS

2.2 Acceptable Manufacturer: Architectural Mall, Inc: 323 St Paul Blvd, Carol Stream IL 60188
Phone: 877-279-9993 Fax: 888-817-0480 Email: sales@architecturalmall.com Website:
www.columnsandbalustrades.com

- A. Substitutions: Not permitted.
- B. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.3 SHUTTERS

A. Raised Panel Shutters: Architectural Mall, Inc E Classic Series Raised Panel Shutters fabricated of high density solid core composite material, and high density PVC sheet machined and interlocked with pultruded fiberglass stiles. Finished Raised Panel is 1 inch (26 mm) thick. Shutters are finished with two part urethane paint, oven cured.

- 1. Style:
 - a. Standard two panel.
 - b. Single panel.
 - c. Extra panel (3 panel).
 - d. Extra panel (4 panel).
 - e. Flat panel.
 - f. Custom rail location.
 - g. Arch or radius top.
 - h. V-Groove flat panel.
 - i. Single panel with vertical cut profile.
 - j. Rabbeted edge with beading.
 - k. Cut out.
 - l. Butt hinge.
- 2. Width:
 - a. _____ inch (_____ mm).
 - b. As indicated on the Drawings.
- 3. Height:
 - a. _____ inch (_____ mm).
 - b. As indicated on the Drawings.
- 4. Colors:
 - a. Pine 644.
 - b. White 631.

- c. Walnut 641.
- d. Craftsman Brown 659.
- e. Federal Brown 635.
- f. Hammered Silver 661.
- g. Roycraft Mist Gray 664.
- h. Chelsea Gray 662.
- i. Evergreen 638.
- j. Deep Sea Blue 637.
- k. Pewter 646.
- l. Roycraft Pewter 663.
- m. Midnight Sky 639.
- n. Tempest Blue 666.
- o. Hamilton Blue 667.
- p. Harbor 645.
- q. Rockwood Dark Green 656.
- r. Rockwood Shutter Green 654.
- s. Roycraft Bottle Green 655.
- t. Forest Green 633.
- u. Charleston Green 653.
- v. Weathered Shingle 660.
- w. Rockwood Medium Brown 658.
- x. Garnet 669.
- y. Polished Mahogany 657.
- z. Roycraft Copper Red 668.
- aa. Board and Batten Red 650.
- bb. Black 632.
- cc. Cascade 647.
- dd. Bordeaux 640.
- ee. Sand 642.
- ff. Plum Creek 643.
- gg. Prime finish.
- hh. Custom color as selected.

B. Louver Shutters: Architectural Mall, Inc E Classic Series Louvered Colonial Shutters fabricated of pultruded fiberglass for vertical stiles and horizontal louvers. High density PVC sheet is machined and interlocked with fiberglass stiles. Finished louver is 1-1/4 inch (32 mm) thick. Shutters are finished with two part urethane paint, oven cured.

1. Style:
 - a. Standard.
 - b. Additional rails.
 - c. Vertical mullion.
 - d. Faux tilt rod.
 - e. Custom top or bottom rail.
 - f. Solid arch top.
 - g. Horns.
 - h. Rabbeted edge.
 - i. Bahama louver spacing.
 - j. Butt hinge.
2. Width:
 - a. _____ inch (_____ mm).
 - b. As indicated on the Drawings.
3. Height:
 - a. _____ inch (_____ mm).
 - b. As indicated on the Drawings.
4. Colors:

- a. Pine 644.
- b. White 631.
- c. Walnut 641.
- d. Craftsman Brown 659.
- e. Federal Brown 635.
- f. Hammered Silver 661.
- g. Roycraft Mist Gray 664.
- h. Chelsea Gray 662.
- i. Evergreen 638.
- j. Deep Sea Blue 637.
- k. Pewter 646.
- l. Roycraft Pewter 663.
- m. Midnight Sky 639.
- n. Tempest Blue 666.
- o. Hamilton Blue 667.
- p. Harbor 645.
- q. Rockwood Dark Green 656.
- r. Rockwood Shutter Green 654.
- s. Roycraft Bottle Green 655.
- t. Forest Green 633.
- u. Charleston Green 653.
- v. Weathered Shingle 660.
- w. Rockwood Medium Brown 658.
- x. Garnet 669.
- y. Polished Mahogany 657.
- z. Roycraft Copper Red 668.
- aa. Board and Batten Red 650.
- bb. Black 632.
- cc. Cascade 647.
- dd. Bordeaux 640.
- ee. Sand 642.
- ff. Plum Creek 643.
- gg. Prime finish.
- hh. Custom color as selected.

C. Combination Shutters: Architectural Mall, Inc E Classic Series Collection
 Combination Shutters fabricated of pultruded fiberglass for vertical stiles and horizontal louvers. High density solid core composite material and High-density PVC sheet is machined and interlocked with fiberglass stiles. Finished combination is 1-1/4 inch (32 mm) thick. Shutters are finished with two part urethane paint, oven cured.

1. Style:
 - a. Standard.
 - b. Additional rail.
 - c. Extra panel.
 - d. Vertical mullion.
 - e. Faux tilt rod.
 - f. Custom rail sizes.
 - g. Solid panel arch top. Bahama lover spacing. Rabbeted edge.
 - h. Bahama louver spacing.
 - i. Rabbeted edge.
 - j. Butt hinge.
 - k. Cut out.
2. Width:
 - a. _____ inch (_____ mm).
 - b. As indicated on the Drawings.

3. Height:
 - a. _____ inch (_____ mm).
 - b. As indicated on the Drawings.
4. Colors:
 - a. Pine 644.
 - b. White 631.
 - c. Walnut 641.
 - d. Craftsman Brown 659.
 - e. Federal Brown 635.
 - f. Hammered Silver 661.
 - g. Roycraft Mist Gray 664.
 - h. Chelsea Gray 662.
 - i. Evergreen 638.
 - j. Deep Sea Blue 637.
 - k. Pewter 646.
 - l. Roycraft Pewter 663.
 - m. Midnight Sky 639.
 - n. Tempest Blue 666.
 - o. Hamilton Blue 667.
 - p. Harbor 645.
 - q. Rockwood Dark Green 656.
 - r. Rockwood Shutter Green 654.
 - s. Roycraft Bottle Green 655.
 - t. Forest Green 633.
 - u. Charleston Green 653.
 - v. Weathered Shingle 660.
 - w. Rockwood Medium Brown 658.
 - x. Garnet 669.
 - y. Polished Mahogany 657.
 - z. Roycraft Copper Red 668.
 - aa. Board and Batten Red 650.
 - bb. Black 632.
 - cc. Cascade 647.
 - dd. Bordeaux 640.
 - ee. Sand 642.
 - ff. Plum Creek 643.
 - gg. Prime finish.
 - hh. Custom color as selected.

D. Bahama Shutters: Architectural Mall, Inc E Classic Series Collection Bahama Shutters fabricated of pultruded fiberglass for vertical stiles, horizontal rails and horizontal louvers. Finished shutter is 1-1/4 inch (32 mm) thick. Shutters are finished with two part urethane paint, oven cured.

1. Style:
 - a. Additional rails.
 - b. Additional vertical mullion.
 - c. Colonial louver spacing.
2. Width:
 - a. Single Panel.
 - b. Double panel with vertical mullion.
 - c. Triple panel with vertical mullions.
 - d. Four panel with vertical mullions.
 - e. _____ inch (_____ mm).
 - f. As indicated on the Drawings.
3. Height:
 - a. _____ inch (_____ mm).

- b. As indicated on the Drawings.
- 4. Colors:
 - a. Pine 644.
 - b. White 631.
 - c. Walnut 641.
 - d. Craftsman Brown 659.
 - e. Federal Brown 635.
 - f. Hammered Silver 661.
 - g. Roycraft Mist Gray 664.
 - h. Chelsea Gray 662.
 - i. Evergreen 638.
 - j. Deep Sea Blue 637.
 - k. Pewter 646.
 - l. Roycraft Pewter 663.
 - m. Midnight Sky 639.
 - n. Tempest Blue 666.
 - o. Hamilton Blue 667.
 - p. Harbor 645.
 - q. Rockwood Dark Green 656.
 - r. Rockwood Shutter Green 654.
 - s. Roycraft Bottle Green 655.
 - t. Forest Green 633.
 - u. Charleston Green 653.
 - v. Weathered Shingle 660.
 - w. Rockwood Medium Brown 658.
 - x. Garnet 669.
 - y. Polished Mahogany 657.
 - z. Roycraft Copper Red 668.
 - aa. Board and Batten Red 650.
 - bb. Black 632.
 - cc. Cascade 647.
 - dd. Bordeaux 640.
 - ee. Sand 642.
 - ff. Plum Creek 643.
 - gg. Prime finish.
 - hh. Custom color as selected.

E. Raised Panel Shutters: Architectural Mall, Inc E Classic Series Collection Raised Panel Shutters fabricated of high density solid core composite material. Finished raised panel is 1 inch (25 mm) thick. Shutters are finished with two part urethane paint, oven cured.

- 1. Style:
 - a. Standard.
 - b. Single panel.
 - c. Extra panel (3 panel).
 - d. Extra panel (4 panel).
 - e. Flat panel.
 - f. Arch or radius top.
 - g. V-Groove flat panel
 - h. Custom rail location.
- 2. Width:
 - a. _____ inch (_____ mm).
 - b. As indicated on the Drawings.
- 3. Height:
 - a. _____ inch (_____ mm).
 - b. As indicated on the Drawings.

4. Colors:
 - a. Pine 644.
 - b. White 631.
 - c. Walnut 641.
 - d. Craftsman Brown 659.
 - e. Federal Brown 635.
 - f. Hammered Silver 661.
 - g. Roycraft Mist Gray 664.
 - h. Chelsea Gray 662.
 - i. Evergreen 638.
 - j. Deep Sea Blue 637.
 - k. Pewter 646.
 - l. Roycraft Pewter 663.
 - m. Midnight Sky 639.
 - n. Tempest Blue 666.
 - o. Hamilton Blue 667.
 - p. Harbor 645.
 - q. Rockwood Dark Green 656.
 - r. Rockwood Shutter Green 654.
 - s. Roycraft Bottle Green 655.
 - t. Forest Green 633.
 - u. Charleston Green 653.
 - v. Weathered Shingle 660.
 - w. Rockwood Medium Brown 658.
 - x. Garnet 669.
 - y. Polished Mahogany 657.
 - z. Roycraft Copper Red 668.
 - aa. Board and Batten Red 650.
 - bb. Black 632.
 - cc. Cascade 647.
 - dd. Bordeaux 640.
 - ee. Sand 642.
 - ff. Plum Creek 643.
 - gg. Prime finish.
 - hh. Custom color as selected.

F. Louver Shutters: Architectural Mall, Inc E Classic Series Collection Faux Louvered Colonial Shutters fabricated of high density solid core composite material. Finished louver is 1-1/4 inch (32 mm) thick. Shutters are finished with two part urethane paint, oven cured.

1. Style:
 - a. Standard.
 - b. Additional Rails.
2. Width:
 - a. _____ inch (_____ mm).
 - b. As indicated on the Drawings.
3. Height:
 - a. _____ inch (_____ mm).
 - b. As indicated on the Drawings.
4. Colors:
 - a. Pine 644.
 - b. White 631.
 - c. Walnut 641.
 - d. Craftsman Brown 659.
 - e. Federal Brown 635.
 - f. Hammered Silver 661.

- g. Roycraft Mist Gray 664.
- h. Chelsea Gray 662.
- i. Evergreen 638.
- j. Deep Sea Blue 637.
- k. Pewter 646.
- l. Roycraft Pewter 663.
- m. Midnight Sky 639.
- n. Tempest Blue 666.
- o. Hamilton Blue 667.
- p. Harbor 645.
- q. Rockwood Dark Green 656.
- r. Rockwood Shutter Green 654.
- s. Roycraft Bottle Green 655.
- t. Forest Green 633.
- u. Charleston Green 653.
- v. Weathered Shingle 660.
- w. Rockwood Medium Brown 658.
- x. Garnet 669.
- y. Polished Mahogany 657.
- z. Roycraft Copper Red 668.
- aa. Board and Batten Red 650.
- bb. Black 632.
- cc. Cascade 647.
- dd. Bordeaux 640.
- ee. Sand 642.
- ff. Plum Creek 643.
- gg. Prime finish.
- hh. Custom color as selected.

G. Board and Batten Shutters: Architectural Mall, Inc E Classic Series Collection Board and Batten Shutters fabricated of high density solid core composite material. Finished board and batten is 1-1/2 inch (38 mm) thick. Shutters are finished with two part urethane paint, oven cured.

1. Style:
 - a. Standard.
 - b. Z-Bar.
 - c. Extra batten.
 - d. No battens.
 - e. Arch or radius top.
 - f. Cut out.
 - g. Custom horizontal groove.
 - h. Custom diagonal groove.
2. Width:
 - a. _____ inch (_____ mm).
 - b. As indicated on the Drawings.
3. Height:
 - a. _____ inch (_____ mm).
 - b. As indicated on the Drawings.
4. Colors:
 - a. Pine 644.
 - b. White 631.
 - c. Walnut 641.
 - d. Craftsman Brown 659.
 - e. Federal Brown 635.
 - f. Hammered Silver 661.
 - g. Roycraft Mist Gray 664.

- h. Chelsea Gray 662.
- i. Evergreen 638.
- j. Deep Sea Blue 637.
- k. Pewter 646.
- l. Roycraft Pewter 663.
- m. Midnight Sky 639.
- n. Tempest Blue 666.
- o. Hamilton Blue 667.
- p. Harbor 645.
- q. Rockwood Dark Green 656.
- r. Rockwood Shutter Green 654.
- s. Roycraft Bottle Green 655.
- t. Forest Green 633.
- u. Charleston Green 653.
- v. Weathered Shingle 660.
- w. Rockwood Medium Brown 658.
- x. Garnet 669.
- y. Polished Mahogany 657.
- z. Roycraft Copper Red 668.
- aa. Board and Batten Red 650.
- bb. Black 632.
- cc. Cascade 647.
- dd. Bordeaux 640.
- ee. Sand 642.
- ff. Plum Creek 643.
- gg. Prime finish.
- hh. Custom color as selected.

- H. ProSeries Raised Panel Shutters: Architectural Mall, Inc ProSeries Raised Panel Shutters fabricated of high density solid core composite material. Finished raised panel is 1 inch (25 mm) thick. Shutters are primed only and should receive a finish coat of paint.
 - 1. Style:
 - a. Standard.
 - b. Single Panel.
 - c. Extra Panel (3 panel).
 - d. Extra Panel (4 panel).
 - e. Flat Panel.
 - f. Quarter Round Arch Top.
 - 2. Width:
 - a. _____ inch (_____ mm).
 - b. As indicated on the Drawings.
 - 3. Height:
 - a. _____ inch (_____ mm).
 - b. As indicated on the Drawings.
 - 4. Colors: Shutters are primed only and should receive a high quality finish coat of paint.
 - a. Color: as specified in Division 09900
 - b. As Indicated on Drawings

- I. ProSeries Louver Shutters: Architectural Mall, Inc ProSeries Louver Shutters fabricated of high density solid core composite material. Finished Louver is 1-1/4 inch (32 mm) thick. Shutters are primed only and should receive a finish coat of paint.
 - 1. Style:
 - a. Standard.

- b. Additional Rails.
 - c. Quarter Round Arch Top.
 - 2. Width:
 - a. _____ inch (_____ mm).
 - b. As indicated on the Drawings.
 - 3. Height:
 - a. _____ inch (_____ mm).
 - b. As indicated on the Drawings.
 - 4. Colors: Shutters are primed only and should receive a high quality finish coat of paint.
- J. ProSeries Board and Batten Shutters: Architectural Mall, Inc ProSeries Board and Batten Shutters fabricated of high density solid core composite material. Finished Board and Batten is 1-1/2 inch (38 mm) thick. Shutters are primed only and should receive a finish coat of paint.
 - 1. Style:
 - a. Standard.
 - b. Z-Bar
 - c. Extra batten
 - d. No battens
 - e. Quarter Round Arch Top
 - 2. Width:
 - a. _____ inch (_____ mm).
 - b. As indicated on the Drawings.
 - 3. Height:
 - a. _____ inch (_____ mm).
 - b. As indicated on the Drawings.
 - 4. Colors: Shutters are primed only and should receive a high quality finish coat of paint.
 - a. Color: as specified in Division 09900.
 - b. As indicated on Drawings.

2.4 HARDWARE

- A. Architectural Mall, Inc Premium Collection, Classic Collection, and ProSeries Raised Panel, Louver, Combination, or Board and Batten Shutters Hardware only.
 - 1. Hardware:
 - a. Pintel: Provide in same size pairs.
 - 1) Pintel plate size - 1-1/2 inch (38 mm) by 3-1/2 inch (89 mm) by 1/8 inch (3.2 mm), Pin diameter 3/8 inch (9.5 mm).
 - 2) Stainless Steel with a matte black powder coat finish.
 - 3) Offsets:
 - a) 1/2 inch (12.5 mm).
 - b) 1-1/2 inch (38 mm).
 - c) 2-1/4 inch (57 mm).
 - d) 3-1/2 inch (89 mm).
 - b. 4 inch (102 mm) Lag Pintel: Provide in pairs.
 - 1) Stainless Steel with a matte black powder coat finish.
 - c. 6 inch (152 mm) L-Hinge: Provide in same size pairs.
 - 1) Stainless Steel with a matte black powder coat finish.
 - 2) Offsets:
 - a) 0 inch.
 - b) 1/2 inch (12.5 mm).
 - c) 1-1/2 inch (38 mm).
 - d) 2-1/4 inch (57 mm).
 - d. 9 inch (229 mm) adjustable L-Hinge: provide in pairs.

- 1) Stainless Steel with a matte black powder coat finish.
- e. 10 inch (254 mm) Strap Hinge: Provide in same size pairs.
 - 1) Stainless Steel with a matte black powder coat finish.
 - 2) Offsets:
 - a) 0 inch
 - b) 1/2 inch (12.5 mm).
 - c) 1-1/2 inch (38 mm).
 - d) 2-1/4 inch (57 mm).
- f. 12 inch (305 mm) Strap Hinge: Provide in same size pairs.
 - 1) Stainless Steel with a matte black powder coat finish.
 - 2) Offsets:
 - a) 1/2 inch (12.5 mm).
 - b) 1-1/2 inch (38 mm).
- g. 10 inch (254 mm) Backplate: Provide in same size pairs.
 - 1) Stainless Steel with a matte black powder coat finish.
- h. 12 inch (305 mm) Backplate: Provide in same size pairs.
 - 1) Stainless Steel with a matte black powder coat finish.
- i. Jamb Pintel: Provide in same size pairs.
 - 1) Stainless Steel with a matte black powder coat finish.
 - 2) Offsets:
 - a) 1 inch (25 mm).
 - b) 2 inch (51 mm).
- j. Flat Hinge:
 - 1) Stainless Steel, 12 gauge with matte black powder coat finish.
 - 2) Offsets:
 - a) 1/2 inch (12.5 mm).
 - b) 1-1/2 inch (38 mm).
 - c) 2-1/4 inch (57 mm).
- k. 6 inch (152 mm) L-Hinge back Plate: Stainless Steel with matte black powder coat finish. Provided in pairs.
- l. Flat Hinge back Plate: Stainless Steel with matte black powder coat finish. Provided in pairs.
- m. Pintel Shim: Stackable, black polyamide plastic, 1/4 inch (6 mm) thick.
- n. S Holdback: Stainless Steel with matte black powder coat finish. Provided in pairs with Stainless Steel lag bolt, washer, and cotter pin.
- o. Dog Post Holdback: Stainless Steel with matte black powder coat finish. Provided in pairs.
- p. Shutter Slide Bolt, 12 inch (305 mm). Stainless Steel with matte black powder coat finish.
 - 1) Non-locking slide bolt.
 - 2) Locking slide bolt.
- q. Acorn Holdback.
- r. Rat Tail Holdback: stainless steel with matte black powder coat finish. Provide in pairs.
- s. Storm Bar:
 - 1) Provide one storm bars for shutters smaller than 60 inches (152 mm) in height.
 - 2) Provide two storm bars are for shutters larger than 60 inches (152 mm) in height.

B. Architectural Mall, Inc Premium Collection Bahama Shutter Hardware only.

- 1. Hardware:
 - a. Male Hinge:
 - 1) Plate size - 1-1/8 inch (28 mm) backplate.
 - b. Female Hinge, 2-3/8 inch (60 mm):
 - 1) Plate size 1-1/4 inch (32 mm) with 1/4 inch (6 mm) lip.

- 2) Projection 2-3/8 inch (60 mm).
- c. Female Hinge, 3-3/8 inch (86 mm):
 - 1) Plate size 1-1/4 inch (32 mm) with 1/4 inch (6 mm) lip.
 - 2) Projection 3-3/8 inch (86 mm).
- d. Tilt Arms:
 - 1) Aluminum tilt arms with nylon end caps.
 - 2) Nylon hinges/eye end sets.
 - 3) Stainless steel clevis pins:

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- C. Commencement of work will imply acceptance of substrate.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions and with no fasteners through the face of the shutters.
- B. Adjust operable units for smooth unobstructed operation.
- C. Architectural Mall, Inc application to achieve proper paint adhesion.

3.4 PROTECTION

- A. Protect installed products from damage by weather and other work until Date of Substantial Completion.
- B. Touch-up and repair damaged products before Date of Substantial Completion.

END OF SECTION