

Atlantic

Premium Shutters®

SECTION 10715

IMPACT SHUTTERS

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GENERAL

1.1 SECTION INCLUDES

- A. Storm rated shutters.
- B. Shutter hardware.

1.2 RELATED SECTIONS

- A. Section 09900 - Paints and Coatings.

1.3 REFERENCES

- A. ASTM E 330 - Structural Performance of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference.
- B. ASTM E 1886 - Standard Test method for Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Missiles and Exposed to Cyclic Pressure Differentials.
- C. ASTM E 1996 - Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Windborne Debris in Hurricanes.

1.4 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 31 standard colors.
- E. Verification Samples: For each finish product specified, two samples, representing actual product, color, and textures.

1.5 QUALITY ASSURANCE

- A. Storm Rated Hurricane Shutters: The completed shutter assembly conforms to:
 1. ASTM E 330 for Static Air Pressure.
 2. ASTM E 1886 and ASTM E 1996 for large missile impact and cyclic pressure loading.
- B. Thermal Stability: Fiberglass louvers and side rails thermally stable from minus 100 degrees F (minus 38 C) to 200 degrees F (93 C).

1.6 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.

1.7 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.

1.8 WARRANTY

- A. Architectural Shutter: Provide with a limited lifetime warranty on structural components and manufacturers defects and factory applied paint finish. Warranty is limited to the original purchaser.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Atlantic Premium Shutters - The Tapco Group, which is located at: 29797 Beck Rd. ; Wixom, MI 48398-2834; Toll Free Tel: 866-288-2726; Tel: 877-437-0608; Fax: 843-752-0111; Email: Wayne_Sanderson@tapcoint.com ; Web: www.thetapcogroup.com/brands/atlantic
- B. Substitutions: Not permitted.

- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 SHUTTERS

- A. Raised Panel Shutters: Atlantic Architectural Collection Raised Panel Shutters fabricated of high density solid core composite material, and high density PVC sheet machined and interlocked with pultruded fiberglass stiles and backed with 1/8 inch (3 mm) thick polycarbonate sheet. 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. Custom rail location.
 - f. Single panel with vertical cut profile.
 - g. Rabbeted edge with beading.
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. Polished Mahogany 657.
 - y. Roycraft Copper Red 668.
 - z. Board and Batten Red 650.
 - aa. Black 632.
 - bb. Cascade 647.
 - cc. Bordeaux 640.
 - dd. Sand 642.

- ee. Plum Creek 643.
- ff. Prime finish.
- gg. Custom color as selected.

B. Louver Shutters: Atlantic Architectural Collection Louvered Colonial Shutters fabricated of pultruded fiberglass for vertical stiles and horizontal louvers and backed with 1/8 inch (3 mm) thick polycarbonate sheet. 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. Horns.
 - g. Rabbeted edge.
 - h. Bahama louver spacing.
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. Rookwood Dark Green 656.
 - r. Rookwood Shutter Green 654.
 - s. Roycraft Bottle Green 655.
 - t. Forest Green 633.
 - u. Charleston Green 653.
 - v. Weathered Shingle 660.
 - w. Rookwood Medium Brown 658.

 - x. Polished Mahogany 657.
 - y. Roycraft Copper Red 668.
 - z. Board and Batten Red 650.
 - aa. Black 632.
 - bb. Cascade 647.
 - cc. Bordeaux 640.
 - dd. Sand 642.

- ee. Plum Creek 643.
- ff. Prime Finish.
- gg. Custom color as selected.

C. Bahama Louvered Shutters: Bahama Shutters fabricated of pultruded fiberglass for vertical stiles, horizontal rails and horizontal louvers and backed with 1/8 inch (3 mm) thick polycarbonate sheet. Finished shutter 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. Additional vertical mullion.
 - d. Colonial louver spacing.
2. Width:
 - a. Single Panel.
 - b. Double panel with vertical mullion.
 - c. _____ inch (_____ mm).
 - d. 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. Rookwood Dark Green 656.
 - r. Rookwood Shutter Green 654.
 - s. Roycraft Bottle Green 655.
 - t. Forest Green 633.
 - u. Charleston Green 653.
 - v. Weathered Shingle 660.
 - w. Rookwood Medium Brown 658.

 - x. Polished Mahogany 657.
 - y. Roycraft Copper Red 668.
 - z. Board and Batten Red 650.
 - aa. Black 632.
 - bb. Cascade 647.
 - cc. Bordeaux 640.
 - dd. Sand 642.
 - ee. Plum Creek 643.
 - ff. Custom color as selected.

2.3 HARDWARE

A. Atlantic Architectural Collection Raised Panel and Louver Shutters Hardware only.

1. Hardware:
 - a. Inside Locking "U" Shaped Storm Bar System.
 - 1) Provide two "U" Shaped Storm Bars for each pair of shutters.
 - b. Horizontal Storm Bar System: Two Horizontal Storm Bars are required per shutter pair.
 - 1) _____ inch (_____ mm).
 - 2) As indicated on the Drawings.
 - c. 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).
 - d. 4 inch (102 mm) Lag Pintel: Provide in pairs.
 - 1) Stainless Steel with a matte black powder coat finish.
 - e. 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).
 - f. 9 inch (229 mm) adjustable L-Hinge: Provided in pairs.
 - 1) Stainless Steel with a matte black powder coat finish.
 - g. 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).
 - h. 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).
 - c) 2-1/4 inch (57mm).
 - i. 10 inch (254 mm) Backplate: Provide in same size pairs.
 - 1) Stainless Steel with a matte black powder coat finish.
 - j. 12 inch (305 mm) Backplate: Provide in same size pairs.
 - 1) Stainless Steel with a matte black powder coat finish.
 - k. Jamb Pintel: 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 inch (25 mm).
 - c) 2 inch (51 mm).
 - l. Flat Hinge:
 - 1) Stainless Steel, 12 gauge with 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).
- m. 6 inch (152 mm) L-Hinge Backplate: Stainless Steel with matte black powder coat finish. Provided in pairs.
- n. Flat Hinge Backplate: Stainless Steel with matte black powder coat finish. Provided in pairs.
- o. H-Hinge: Stainless Steel with matte black powder coat finish. Provided in pairs.
- p. Pintel Shim: Stackable, black polyamide plastic, 1/4 inch (6 mm) thick.
- q. S Holdback: Stainless Steel with matte black powder coat finish. Provided in pairs with Stainless Steel lag bolt, washer, and cotter pin.
- r. Dog Post Holdback: Stainless Steel with matte black powder coat finish. Provided in pairs.
- s. Rat Tail Holdback: Stainless Steel with matte black powder coat finish. Provided in pairs.
- t. 6 inch (152 mm) Lag Bolt: Stainless Steel with matte black powder coat finish. Provided in pairs. For use with S Holdback and Rat Tail Holdback.
- u. Shutter Slide Bolt, 12 inch (305 mm). Stainless Steel with matte black powder coat finish.
 - 1) Non-locking slide bolt.
 - 2) Locking slide bolt.
- v. Acorn Holdback.

B. Atlantic Architectural Collection Bahama Shutter Hardware only.

- 1. Hardware:
 - a. Male Hinge:
 - 1) Plate size - 1-1/8 inch (28 mm) backplate.
 - b. Female Hinge Track, 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 Track, 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) Black Anodized tilt arms with nylon end caps.
 - 3) Nylon hinges/eye end sets.
 - 4) Stainless steel clevis pins:
 - e. Locking bar and mounting brackets.

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.

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