SECTION 10 71 13.14

EXTERIOR SHUTTERS - ALUMINUM

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\*\* NOTE TO SPECIFIER \*\* New Horizon Shutters International LLC.; custom manufactured composite shutters.
This section is based on the products of New Horizon Shutters International LLC.,which is located at:
7259 Spa Road, Suite A,
North Charleston, SC 29418
Tel: 843-797-7762
Email: quotes@NewHorizonShutters.com
Web: [www.NewHorizonShutters.com](http://www.NewHorizonShutters.com)
[Click Here] for additional information.
At New Horizon Shutters, we are continuously reviewing, developing, and improving to stay the best and most preferred exterior shutter manufacturer for homes and commercial projects.
New Horizon Shutters' patented technology allows us to create the most customizable and longest lasting shutter on the market. Our dedication to innovation has enabled us to create composite shutters in the exact style and the exact specifications that you require. We seamlessly integrate with all aspects of the project, from start to finish, which is why we have become the best shutter for the best value and with the easiest total process.
We offer the industry's best warranty on our polymer composite shutters as well as our aluminum Bahama shutter. We use a revolutionary process that creates the most technologically advanced shutters, which are more durable and more customizable than anything else on the market.
No matter how intricate the details are - we are master shutter builders and are proud to deliver master quality. We stand behind our work and believe that our products tell the story of our passion, energy, and attention to detail. New Horizon Shutters is the answer for all your shutter needs!

1. GENERAL
	1. RELATED SECTIONS
		1. Functional exterior aluminum shutters.
		2. Exterior shutter hardware.
	2. RELATED SECTIONS
		1. Section 09 90 00 - Painting and Coating.
	3. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ASTM International (ASTM):
			1. ASTM C177 - Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus.
		2. American Architectural Manufacturers Association (AAMA):
			1. AAMA 2605 - Superior Performance Metal Finishes.

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* 1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Shop Drawings: Show materials, layout, dimensions, profiles, fasteners and anchors, hardware, finishes, and interface with adjacent construction.
		3. Product Data: Manufacturer's data sheets on each product to be used.
			1. Preparation instructions and recommendations.
			2. Storage and handling requirements and recommendations.
			3. Installation methods.

\*\* NOTE TO SPECIFIER \*\* Delete selection samples if colors have already been selected.

* + 1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's 26 standard colors or Custom Colors.
		2. Verification Samples: For each finish product specified, one sample, minimum size 12 inches (305 mm) square, representing actual product, color, and textures.

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* 1. QUALITY ASSURANCE
		1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum five years documented experience.
		2. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
		3. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

\*\* NOTE TO SPECIFIER \*\* Include mock-up if the project size or quality warrant the expense. The following is one example of how a mock-up on might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
			1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
			2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
			3. Retain mock-up during construction as a standard for comparison with completed work.

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* 1. DELIVERY, STORAGE, AND HANDLING
		1. Deliver materials to site in manufacturer's original, unopened packaging, with labels clearly identifying product name and manufacturer.
		2. Store materials in a clean, cool, and dry area in an upright position and in accordance with manufacturer's instructions. Do not leave unopened shutters in extreme heat and direct sunlight.
		3. Protect materials during handling and installation to prevent damage.
	2. PROJECT CONDITIONS
		1. 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.
	3. WARRANTY

\*\* NOTE TO SPECIFIER \*\* Include the following paragraph for the New Horizon Shutters LLC Aluminum shutters only.

* + 1. Lifetime warranty on structural components and finish under normal weather conditions. Warranty is limited to the original purchaser. This is not to supersede warranty available on our website.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: New Horizon Shutters International, LLC, which is located at:7259 Spa Rd., Suite ANorth Charleston, SC 29418Tel: 843-797-7762Email: [request info (info+arcat@newhorizonshutters.com)](https://arcat.com/rfi?action=email&company=New%252BHorizon%252BShutters%252BInternational%252C%252BLLC&message=RE%253A%2520Spec%2520Question%2520(10710nhs)%253A%2520&coid=52132&spec=10710nhs&rep=&fax=);Web: <https://www.newhorizonshutters.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
	1. PERFORMANCE AND DESIGN REQURIEMENTS
		1. Thermal Stability: Reinforced aluminum alloy structural louvers for wider spans up to 48 inch (1219 mm) and side rails finished with Sherwin Williams Polane two-part Solar Reflective Polyurethane Enamel thermally stable up to 800 degrees F (427 degrees C).
		2. Shutter Finish: Certified to AAMA 2605 specifications.
	2. ALUMINUM SHUTTERS

\*\* NOTE TO SPECIFIER \*\* Shutters are available with custom design options.

* + 1. Aluminum Exterior Colonial Shutters by New Horizon Shutters International LLC.
			1. Fabrication:
				1. Stiles: reinforced aluminum alloy.
				2. Louvers: Aluminum.

Finished Louver Thickness: 1-1/4 inch (32 mm).

* + - * 1. Finish: Sherwin Williams Polane 2-part Solar Reflective Polyurethane Enamel, oven cured.

\*\* NOTE TO SPECIFIER \*\* Delete shutter style paragraphs not required. If more than one type of shutter is required, indicate where each is to be used, by specifying the locations for each or by giving each a unique name that can be referenced on the Drawings.

* + - 1. Shutter Style: Top hung Bahama.
			2. Shutter Style: Fixed shutter.
			3. Shutter Style: Side hung Colonial.
			4. Shutter Style: Custom styles available.

\*\* NOTE TO SPECIFIER \*\* Shutters are available in widths of 10 to 30 inches in 1/16 inch increments. Insert size required. If more than one size is required indicate sizes on the Drawings. Delete the paragraph not required.

* + - 1. Width: \_\_\_\_\_ inch (\_\_\_\_ mm).
			2. Width: As indicated on the Drawings.

\*\* NOTE TO SPECIFIER \*\* Shutters are available in heights of 12 to 96 inches in 1/16 inch increments. Insert size required. If more than one size is required indicate sizes on the drawings. Delete the paragraph not required.

* + - 1. Height: \_\_\_\_\_ inch (\_\_\_\_ mm).
			2. Height: As indicated on the Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete color paragraphs not required.

* + - 1. Color: Bahama Blue 113.
			2. Color: Black 125.
			3. Color: Black Forest Green 122.
			4. Color: Board and Batten Red 110.
			5. Color: Bordeaux 111.
			6. Color: Charleston Green (New) 123.
			7. Color: Charleston Green (Old) 124.
			8. Color: Chelsea Gray 105.
			9. Color: Classic White 101.
			10. Color: Deep Sea Blue 116.
			11. Color: Driftwood 103.
			12. Color: Essex Green 119.
			13. Color: Evergreen 120.
			14. Color: Federal Brown 109.
			15. Color: Forest Green 118.
			16. Color: Hamilton Blue 115.
			17. Color: Hunter Green 117.
			18. Color: Pewter 104.
			19. Color: Polished Mahogany 112.
			20. Color: Quaker Bronze 108.
			21. Color: Roycroft Bottle Green 121.
			22. Color: Roycroft Pewter 106.
			23. Color: Stratford Blue 114.
			24. Color: Tricorn Black 126.
			25. Color: Weathered Shingle 107.
			26. Color: White 102.
			27. Color: Custom color as selected.
	1. HARDWARE
		1. Hardware: Aluminum Exterior Colonial Shutters.

\*\* NOTE TO SPECIFIER \*\* Select hardware required from the following paragraphs. If different groups of hardware are required for selected shutters, indicated the required products and material being used on the Drawings or in the specification. Delete pintel paragraphs and options not required.

* + - 1. Pintel Plate: Provide in same size pairs.
				1. Size: 1-1/2 x 1/8 inches (38 x 3 mm). Pin Diameter: 3/8 inch (10 mm).
				2. Size: 3/4 x 1/8 inches (19 x 3 mm). Pin diameter 3/8 inch (10 mm).
				3. Material: Type 304 stainless steel. Finish: Matte black powder coat finish.
				4. Material: Galvanized Steel. Finish: Matte black powder coat finish.

\*\* NOTE TO SPECIFIER \*\* Delete offsets paragraphs not required.

* + - * 1. Offsets: 1/2 inch (12.7 mm).
				2. Offsets: 1-1/2 inch (38 mm).
				3. Offsets: 2-1/4 inch (57 mm).
				4. Offsets: 3-1/4 inch (82.5 mm).
			1. Lag Pintel: 4 inch (102 mm). Provide in same size pairs.
				1. Material: Type 304 stainless steel. Finish: Matte black powder coat finish.
				2. Material: Galvanized Steel. Finish: Matte black powder coat finish.
			2. Lag Pintel: 6 inch (152 mm), Provide in same size pairs.
				1. Material: Type 304 stainless steel. Finish: Matte black powder coat finish.
				2. Material: Galvanized Steel. Finish: Matte black powder coat finish.
			3. Jamb Pintel (leaf pintel). Provide in same size pairs.
				1. Material: Galvanized Steel. Finish: Matte black powder coat finish.

\*\* NOTE TO SPECIFIER \*\* Delete offset paragraphs not required.

* + - * 1. Offsets: 1-1/4 inch (32 mm).
				2. Offsets: 2-1/4 inch (57 mm).

\*\* NOTE TO SPECIFIER \*\* Delete hinge paragraphs and options not required.

* + - 1. L-Hinge: 6-inch (152 mm).
				1. Material: Type 304 stainless steel. Finish: Matte black powder coat finish.
				2. Material: Galvanized Steel. Finish: Matte black powder coat finish.

\*\* NOTE TO SPECIFIER \*\* Delete offsets paragraphs not required.

* + - * 1. Offsets: 0 inch, Flat.
				2. Offsets: 1/2 inch (12.7 mm).
				3. Offsets: 1-1/2 inch (38 mm).
				4. Offsets: 2-1/4 inch (57 mm).
			1. Strap Hinge: 10 inch (254 mm): Provide in same size pairs.
				1. Material: Type 304 stainless steel. Finish: Matte black powder coat finish.

\*\* NOTE TO SPECIFIER \*\* Delete offsets paragraphs not required.

* + - * 1. Offsets: 0 inch. Flat.
				2. Offsets: 1/2 inch (13 mm).
				3. Offsets: 1-3/4 inch (45 mm).
			1. Strap Hinge: 12 inch (305 mm).
				1. Material: Type 304 stainless steel. Finish: Matte black powder coat finish.
				2. Offsets: 1 inch (25 mm).
			2. Flat Hinge (Center Hinge):
				1. Type 304 Stainless Steel with matte black powder coat finish.

\*\* NOTE TO SPECIFIER \*\* Delete offsets paragraphs not required.

* + - * 1. Offsets: 0 inch. Flat.
				2. Offsets: 1/2 inch (12.7 mm).
				3. Offsets: 1-3/4 inch (44.5 mm).
				4. Offsets: 2-1/4 inch (57 mm).
			1. Pintel Shim: Stackable, black polyamide plastic, 1/4 inch (6 mm) thick.
			2. S Holdback: Provided in pairs.
				1. Material: Type 304 Stainless Steel. Finish: Matte black powder coat finish.
				2. Material: Aluminum. Finish: Matte black powder coat finish.
				3. Lag Bolts, Washer, and Cotter Pin: Type 304 Stainless Steel.
			3. Shutter Slide Bolt: 12 inch (305 mm). Type 304 Stainless Steel. Finish: Matte black powder coat. Non-locking slide bolt.
			4. Acorn Holdback. Type 304 Stainless steel.
			5. Rat Tail Holdback: Aluminum with matte black powder coat finish. Provide in pairs.
		1. Hardware: Bahama Shutter Hardware only.

\*\* NOTE TO SPECIFIER \*\* Select hardware required from the following paragraphs. If different groups of hardware are required for selected shutters, indicated required products on the Drawings or in the specification. Delete the hinge and standoff rods paragraphs not required.

* + - 1. Male Hinge:
				1. Plate Size: 1-1/8 inch (28 mm) backplate.
			2. Female Hinge (standard) 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).
			3. Female Hinge (one inch build out), 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).
			4. Female Hinge (lintel) 2-3/8 inch (60 mm):
				1. Plate Size: 3-3/8 inch (86 mm) with 1/4 inch (6 mm) lip.
				2. Projection: 0 inch (0 mm).
			5. Standoff Rods: Aluminum with nylon or Type 304 Stainless Steel end caps.
			6. Standoff Rods: Aluminum telescoping.
			7. Standoff Rods: Nylon or Type 304 Stainless Steel hinges and eye end sets.
			8. Standoff Rods: Type 304 Stainless steel clevis pins.
1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until shutters have been properly prepared.
	2. PREPARATION
		1. Clean surfaces thoroughly prior to installation.
	3. INSTALLATION
		1. Install in accordance with manufacturer's instructions.
		2. Adjust operable units for smooth unobstructed operation.
	4. PROTECTION
		1. Protect installed products from damage by weather and other work until Date of Substantial Completion.
		2. Touch-up and repair damaged products before Date of Substantial Completion.

END OF SECTION