

E-Class Exterior Shutters

SECTION 10 71 13.13

Exterior Shutters

\*\* 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:
7259A Spa Road, North Charleston, SC 29418

Tel: 843-797-7762
Email: request info (quotes@NewHorizonShutters.com)
Web: [www.NewHorizonShutters.com](https://www.newhorizonshutters.com/)
The fully operable shutters manufactured by New Horizon Shutters International LLC are historically accurate composite shutters made to withstand the elements and provide a low-maintenance alternative to wooden shutters. New Horizon Shutters International LLC shutters are fully customized and made to fit your needs and personal preference. Available in any style to fit your project requirements, all while “Preserving Art in Architecture”. Each E-Class Series Shutter is built with the confidence of a 15-year warranty the for E-Class Shutter Series and a 10-year warranty for commercial applications. Full warranty information can be found at: https://www.newhorizonshutters.com/warranty-and-care-documentshttps://www.newhorizonshutters.com/warranty-and-care-documents

1. GENERAL
	1. RELATED SECTIONS

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

* + 1. Functional exterior shutters.
		2. Exterior shutter hardware.
	1. RELATED SECTIONS
		1. Section 09 90 00 - Paints and Coatings.
	2. SUBMITTALS

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

* + 1. Submit under provisions of Section 01300.
		2. Shop Drawings: Show materials, layout, dimensions, profiles, hardware, and finishes.
		3. 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.
			4. Product literature.

\*\* 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.
	1. QUALITY ASSURANCE

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

* + 1. Thermal Stability: High impact polystyrene (HIPS) and/or aluminum structural louvers finished with two-part Polyurethane Enamel are thermally stable up to 200 degrees F (94 C).
		2. Thermal Stability: reinforced aluminum structural louvers for wider spans up to 48” and vertical stiles finished with two-part Polyurethane Enamel thermally stable up to 800 degrees F (427 C).
		3. Shutter Finish: Certified to AAMA 2605 specifications.
		4. Thermal Stability: Structural Expanded Foam PVC horizontal rails and shutter core finished with two-part Polyurethane Enamel thermally stable up to 200 degrees F (94 C) with ASTM standard C17713 and class A fire rating.
	1. DELIVERY, STORAGE, AND HANDLING

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

* + 1. Deliver materials to site in manufacturer's original, unopened packaging, with labels clearly identifying product name and manufacturer.
		2. Handle and store materials and products in strict compliance with manufacturer's instructions and recommendations and industry standards.
		3. 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.
		4. Protect materials during handling and installation to prevent damage.
	1. 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.
	2. WARRANTY
		1. Warranty is limited to the original purchaser. This is not to supersede warranty available on our website [www.NewHorizonShutters.com](http://www.NewHorizonShutters.com).

\*\* NOTE TO SPECIFIER \*\* Delete warranty options not required.

* + - 1. Residential Application Warranty:

Provide with a 15 year warranty on structural components and finish under normal weather conditions.

* + - 1. Commercial and Rental Application Warranty:

Provide with a 10 year warranty on structural components and finish under normal weather conditions.

1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: New Horizon Shutters International, LLC. North Charleston, SC 29418 Phone: 843-797-7762; Email: quotes@NewHorizonShutters.com; Website: [www.NewHorizonShutters.com](http://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. SHUTTERS

\*\* NOTE TO SPECIFIER \*\* The following descriptions represent examples of the types of E-Class raised panel, louvered, and board and batten shutters that are offered by New Horizon Shutters International LLC. Shutters are available with custom design options. Delete each of the following products or options that are not required. If more than one type of shutter is required, be sure to indicate where each is to be used, either by specifying the location(s) for each or by giving each a unique name that can be referenced on the Drawings.

* + 1. Raised Panel Shutters: New Horizon Shutters International LLC. E-Class Raised Panel Shutters fabricated of Structural Expanded Foam PVC, sheet machined and interlocked with reinforced aluminum structural vertical stiles. Finished shutter is 1 inch (25 mm) thick. Vertical stile is 2 inch (51 mm) wide. Shutters are finished with two-part Polyurethane Enamel, certified to AAMA 2605 specifications.
			1. Options:

\*\* NOTE TO SPECIFIER \*\* Delete the Options not required for project.

* + - * 1. Standard two panel.
				2. Single panel.
				3. Extra panel (3 panel).
				4. Custom rail location.
				5. Custom rail sizes.
				6. Arch or radius top.
				7. Cut out.
				8. Bifold.
				9. 3/4 inch (19 mm) horns.
			1. Width:

\*\* NOTE TO SPECIFIER \*\* Shutters are available in widths of 8 inches to 24” in 1/8 inch increments. Larger custom sizes are available upon request. Insert size required or if more than one size is required indicate sizes on the drawings. Select one of the following paragraphs for the width required. Delete the paragraph not required.

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

\*\* NOTE TO SPECIFIER \*\* Shutters are available in heights of 12 inches to 120 inches in 1/4 inch increments. Larger custom sizes are available upon request. Insert size required or if more than one size is required indicate sizes on the drawings. Select one of the following paragraphs for the height required. Delete the paragraph not required.

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

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs for the color required. Delete the paragraphs not required.

* + - * 1. Bahama Blue 113
				2. Black 125
				3. Black Forest Green 122
				4. Board & Batten Red 110
				5. Bordeaux 111
				6. Charleston Green (New) 123
				7. Charleston Green (Old) 124
				8. Chelsea Gray 105
				9. Classic White 101
				10. Deep Sea Blue 116
				11. Driftwood 103
				12. Essex Green 119
				13. Evergreen 120
				14. Federal Brown 109
				15. Forest Green 118
				16. Hamilton Blue 115
				17. Hunter Green 117
				18. Pewter 104
				19. Polished Mahogany 112
				20. Quaker Bronze 108
				21. Roycroft Bottle Green 121
				22. Roycroft Pewter 106
				23. Stratford Blue 114
				24. Tricorn Black 126
				25. Weathered Shingle 107
				26. White 102
				27. Custom color as selected.
		1. Louver Shutters: New Horizon Shutters International LLC. E-Class Louvered Colonial Shutters fabricated of reinforced aluminum structural vertical stiles, Structural Expanded Foam PVC horizontal rails, and high impact polystyrene and/or aluminum structural louvers. Structural Expanded Foam PVC sheet is machined and interlocked with reinforced aluminum structural vertical stiles. Finished shutter is 1 inch (25 mm) thick. Louver size is 1-1/4 inch (32 mm), rounded. Vertical stile is 2 inch (51 mm) wide. Shutters are finished with two-part Polyurethane Enamel, certified to AAMA 2605 specifications.
			1. Options:

\*\* NOTE TO SPECIFIER \*\* Delete the Options not required for project.

* + - * 1. Standard two panel.
				2. Single panel.
				3. Extra panel (3 panel).
				4. Custom rail location.
				5. Custom rail sizes.
				6. Solid panel arch or radius top.
				7. Decorative tilt rod.
				8. Bifold.
				9. 3/4 inch (19 mm) horns.
			1. Width:

\*\* NOTE TO SPECIFIER \*\* Shutters are available in widths of 8 inches to 45” in 1/8 inch increments. Larger custom sizes are available upon request. Insert size required or if more than one size is required indicate sizes on the drawings. Select one of the following paragraphs for the width required. Delete the paragraph not required.

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

\*\* NOTE TO SPECIFIER \*\* Shutters are available in heights of 12 inches to 120 inches in 1/4 inch increments. Larger custom sizes are available upon request. Insert size required or if more than one size is required indicate sizes on the drawings. Select one of the following paragraphs for the height required. Delete the paragraph not required.

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

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs for the color required. Delete the paragraphs not required.

* + - * 1. Bahama Blue 113
				2. Black 125
				3. Black Forest Green 122
				4. Board & Batten Red 110
				5. Bordeaux 111
				6. Charleston Green (New) 123
				7. Charleston Green (Old) 124
				8. Chelsea Gray 105
				9. Classic White 101
				10. Deep Sea Blue 116
				11. Driftwood 103
				12. Essex Green 119
				13. Evergreen 120
				14. Federal Brown 109
				15. Forest Green 118
				16. Hamilton Blue 115
				17. Hunter Green 117
				18. Pewter 104
				19. Polished Mahogany 112
				20. Quaker Bronze 108
				21. Roycroft Bottle Green 121
				22. Roycroft Pewter 106
				23. Stratford Blue 114
				24. Tricorn Black 126
				25. Weathered Shingle 107
				26. White 102
				27. Custom color as selected.
		1. Board and Batten Shutters: New Horizon Shutters International LLC. E-Class Board and Batten Shutters fabricated of Structural Expanded Foam PVC sheet machined. Finished shutter is 2 inch (51 mm) thick. Shutters are finished with two-part Polyurethane Enamel, certified to AAMA 2605 specifications.
			1. Options:

\*\* NOTE TO SPECIFIER \*\* Delete the Options not required for project.

* + - * 1. Standard panel.
				2. Z-bar (cross buck).
				3. Extra batten.
				4. No battens.
				5. Arch or radius top.
				6. Cut out.
				7. Bifold.
				8. 3/4 inch (19 mm) horns.
			1. Width:

\*\* NOTE TO SPECIFIER \*\* Shutters are available in widths of 8 inches to 24” in 1/8 inch increments. Larger custom sizes are available upon request. Insert size required or if more than one size is required indicate sizes on the drawings. Select one of the following paragraphs for the width required. Delete the paragraph not required.

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

\*\* NOTE TO SPECIFIER \*\* Shutters are available in heights of 8 inches to 84” in 1/4 inch increments. Larger custom sizes are available upon request. Insert size required or if more than one size is required indicate sizes on the drawings. Select one of the following paragraphs for the height required. Delete the paragraph not required.

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

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs for the color required. Delete the paragraphs not required.

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

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

* + - 1. Hardware:
				1. Pintel: Provide in same size pairs.

\*\* NOTE TO SPECIFIER \*\* Select pintel required from the following paragraphs. Delete the paragraphs not required.

 Pintel plate size – 1-1/2 inch (38mm) or 3/4 (19 mm) by 1/8 inch (3.2 mm), Pin diameter 3/8 inch (9.5 mm).

Type 304 Stainless Steel with a matte black powder coat finish.

 Offsets:

\*\* NOTE TO SPECIFIER \*\* Select offset required from the following paragraphs. Delete the paragraphs not required.

1/2 inch (12.7 mm).

1-1/2 inch (38 mm).

2-1/4 inch (57 mm).

3-1/4 inch (82.5 mm).

 6-inch (152mm) Lag Pintel: Provide in pairs.

 Type 304 Stainless Steel with a matte black powder coat finish.

 Jamb Pintel (Leaf pintel): Provide in same size pairs.

Type 304 Stainless Steel with a matte black powder coat finish.

 Offsets:

\*\* NOTE TO SPECIFIER \*\* Select offset required from the following paragraphs. Delete the paragraphs not required.

1-1/4 inch (32 mm).

2-1/4 inch (57 mm).

* + - * 1. Hinge: Provide in same size pairs.

\*\* NOTE TO SPECIFIER \*\* Select hinge required from the following paragraphs. Delete the paragraphs not required.

6-inch (152 mm) L-Hinge: Provide in same size pairs.

Type 304 Stainless Steel with a matte black powder coat finish.

 Offsets:

\*\* NOTE TO SPECIFIER \*\* Select offset required from the following paragraphs. Delete the paragraphs not required.

0 inch (flat).

1/2 inch (12.7 mm).

1-1/2 inch (38 mm).

1-3/4 inch (44.5 mm).

2-1/4 inch (57 mm).

 10-inch (254 mm) Strap Hinge: Provide in same size pairs.

Type 304 Stainless Steel with a matte black powder coat finish.

 Offsets:

\*\* NOTE TO SPECIFIER \*\* Select offset required from the following paragraphs. Delete the paragraphs not required.

0 inch (flat).

1/2 inch (12.7 mm).

1-3/4 inch (44.5 mm).

2-1/4 inch (57 mm).

 12-inch (305 mm) Strap Hinge: Provide in same size pairs.

 Type 304 Stainless Steel with a matte black powder coat finish.

 Offsets:

\*\* NOTE TO SPECIFIER \*\* Select offset required from the following paragraphs. Delete the paragraphs not required.

1/2 inch (12.7 mm).

 Flat Hinge (center hinge):

Type 304 Stainless Steel with matte black powder coat finish.

 Offsets:

\*\* NOTE TO SPECIFIER \*\* Select offset required from the following paragraphs. Delete the paragraphs not required.

0 inch (flat).

1/2 inch (12.7 mm).

1-3/4 inch (44.5 mm).

2-1/4 inch (57 mm).

* + - * 1. Holdback: provide in pairs.

\*\* NOTE TO SPECIFIER \*\* Select holdback required from the following paragraphs. Delete the paragraphs not required.

 S Holdback.

Type 304 Stainless Steel with matte black powder coat finish.

Type 304 Stainless Steel lag bolt.

 Acorn Holdback.

Type 304 Stainless steel.

 Rat Tail Holdback.

Type 304 Stainless steel with matte black powder coat finish.

Propeller Holdback.

Type 304 Stainless steel with matte black powder coat finish.

15” Hook and Eye Screw

Galvanized Carbon steel.

22” Hook and Eye Plate Mount.

Type 304 Stainless steel with matte black powder coat finish.

* + - * 1. Shutter Lock.

\*\* NOTE TO SPECIFIER \*\* Select type of shutter lock required from the following paragraphs. Delete the paragraphs not required.

Slide Bolt, 12-inch (305 mm).

Type 304 Stainless Steel with matte black powder coat finish.

Barrel Bolt, 4 inch (102 mm).

Type 304 Stainless Steel with matte black powder coat finish.

Cane Bolt.

Type 304 Stainless Steel.

4” Hook and Eye Plate Mount.

Type 304 Stainless steel with matte black powder coat finish.

* + - * 1. Pull Ring.

Type 304 Stainless Steel with matte black powder coat finish.

Plate mount.

* + - * 1. Fixed Mounting Bracket.

Polycarbonate, clear.

* + - * 1. Pintel Shim: Stackable, black polyamide plastic, 1/4 inch (6 mm) thick.
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