

NOTES:
(NTS)

- 1. MOUNTING HARDWARE SUPPLIED BY OTHERS
- 2. FIXTURES ARE HANDCRAFTED. DIMENSIONS MAY VARY PLUS OR MINUS $\frac{1}{4}$ "
- 3. ELECTRIC LIGHTS SUPPLIED WITH 18/2 WIRE WITH GROUND

SIDE VIEW

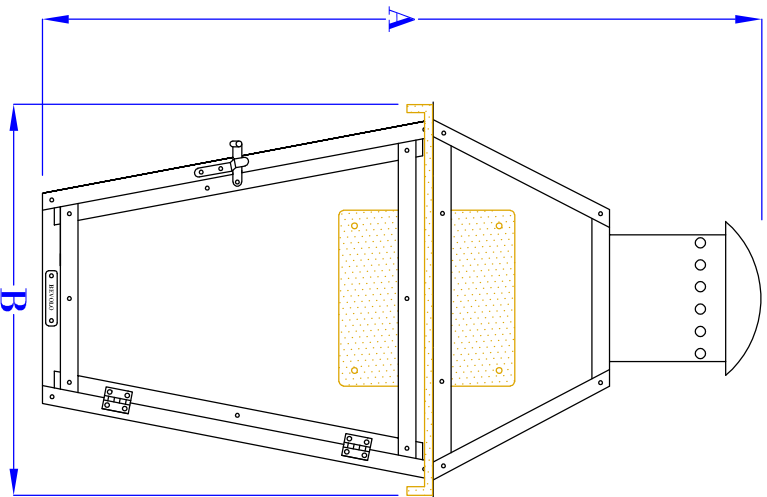
SIZE:	14"	16"	18"
A:	14"	16"	18"
B:	14"	15 $\frac{1}{8}$ "	15 $\frac{1}{2}$ "
C:	24 $\frac{3}{8}$ "	27 $\frac{7}{8}$ "	30"
D:	10 $\frac{1}{4}$ "	11 $\frac{5}{8}$ "	12 $\frac{1}{2}$ "
E:	7"	7"	7"
F:	7"	8 $\frac{1}{8}$ "	8 $\frac{1}{2}$ "

BEVOLO GAS & ELECTRIC LIGHTS

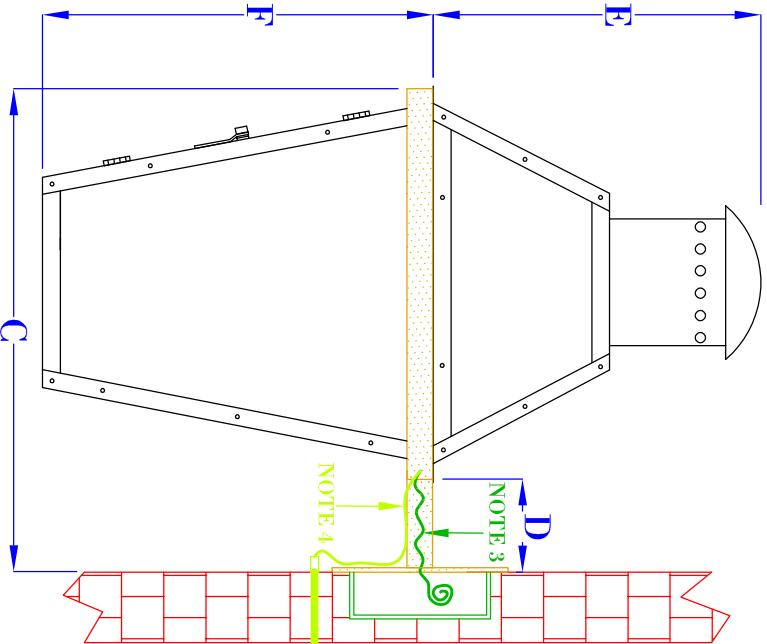
LIGHT:	WAREHOUSE DISTRICT	DATE:	APP. BY:	JJG
BRACKET:	STANDARD WALL MOUNT	6-28-23	REVISION:	5

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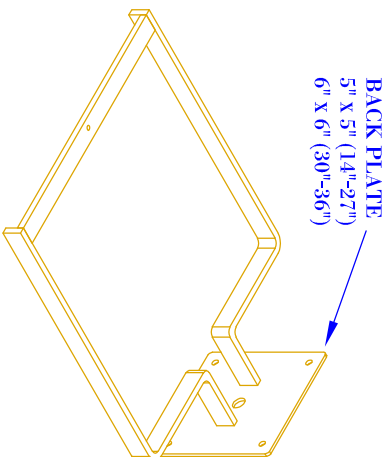
ATTACHMENT 8



FRONT VIEW
(NTS)



SIDE VIEW
(NTS)



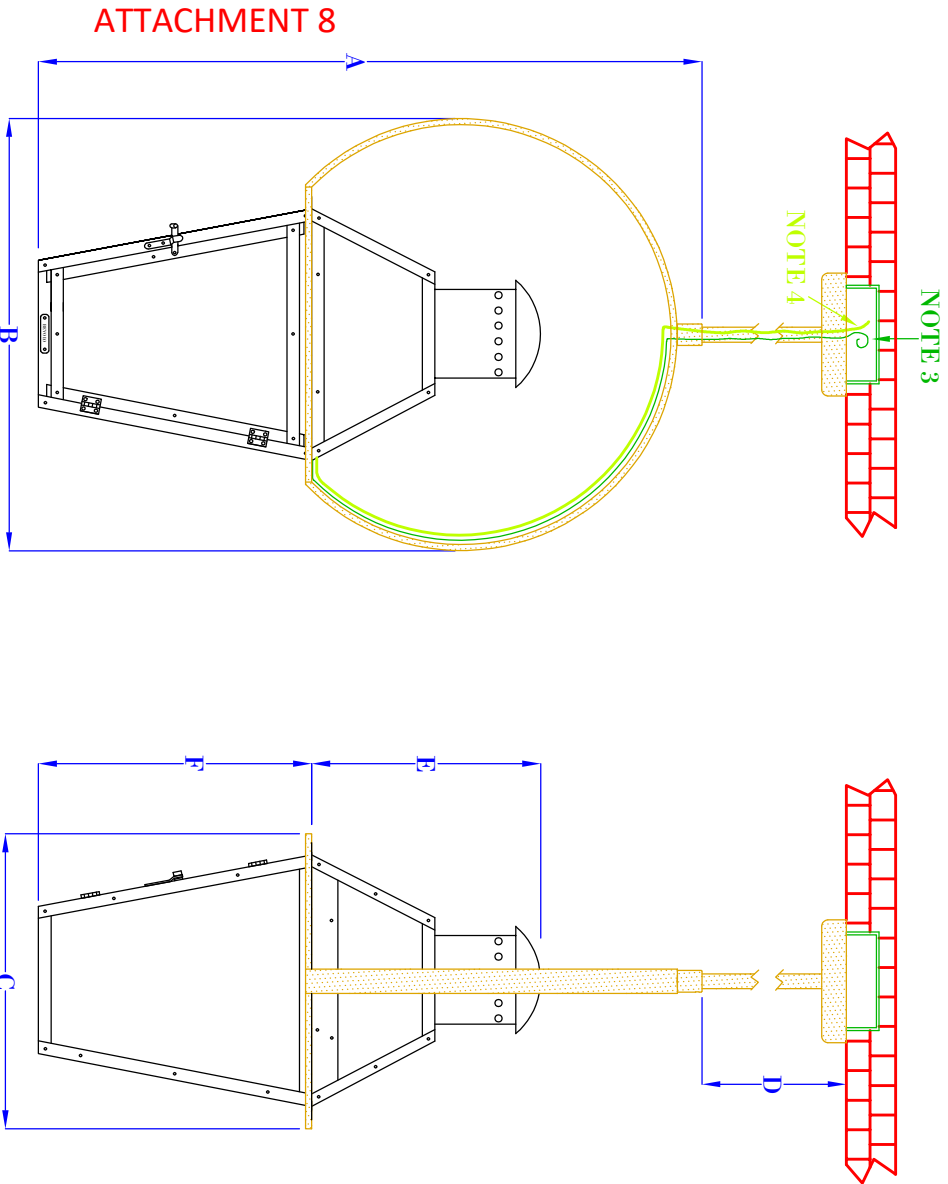
ISOMETRIC VIEW
(NTS-BRACKET ONLY)

- NOTES:
1. MOUNTING HARDWARE SUPPLIED BY OTHERS
 2. FIXTURES ARE HANDCRAFTED. DIMENSIONS MAY VARY PLUS OR MINUS $\frac{1}{4}$ "
 3. ELECTRIC LIGHTS SUPPLIED WITH 18/2 WIRE WITH GROUND
 4. GAS LIGHTS SUPPLIED WITH $\frac{3}{16}$ " COPPER GAS LINE AND $\frac{3}{16}$ " x $\frac{1}{4}$ " GAS LINE ADAPTOR

BEVOLO GAS & ELECTRIC LIGHTS

LIGHT:	FRENCH QUARTER		DATE:	APP. BY:	JJG	COPYRIGHT 2018 BEVOLO GAS & ELECTRIC LIGHTS. DRAWINGS & DESIGNS ARE OWNED BY BEVOLO AND REMAIN THE SOLE AND EXCLUSIVE PROPERTY OF BEVOLO GAS & ELECTRIC LIGHTS. DRAWINGS AND DESIGNS SHALL NOT BE DUPLICATED IN WHOLE OR PART.									
BRACKET:	ORIGINAL BRACKET MOUNT		II-30-17	REVISION:	5										

SIZE:	14"	18"	21"	24"	27"	30"	36"
A:	14 $\frac{1}{4}$ "	17 $\frac{3}{4}$ "	20 $\frac{1}{2}$ "	25 $\frac{1}{4}$ "	26 $\frac{1}{4}$ "	30 $\frac{5}{8}$ "	37"
B:	9 $\frac{1}{4}$ "	10 $\frac{1}{2}$ "	11 $\frac{1}{2}$ "	13 $\frac{1}{4}$ "	14 $\frac{1}{2}$ "	17 $\frac{1}{2}$ "	21 $\frac{1}{2}$ "
C:	11 $\frac{3}{4}$ "	13"	14"	15 $\frac{3}{4}$ "	17"	20"	24"
D:	2 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "
E:	6 $\frac{1}{4}$ "	7 $\frac{5}{8}$ "	9 $\frac{3}{8}$ "	12 $\frac{3}{8}$ "	11 $\frac{7}{8}$ "	14 $\frac{1}{2}$ "	17 $\frac{3}{8}$ "
F:	8"	10 $\frac{1}{8}$ "	11 $\frac{1}{8}$ "	12 $\frac{7}{8}$ "	14 $\frac{3}{8}$ "	16 $\frac{1}{8}$ "	19 $\frac{5}{8}$ "



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BEVOLO GAS & ELECTRIC LIGHTS

LIGHT:	FRENCH QUARTER		
BRACKET:	YOKE		
DATE:	APP. BY:	JJG	COPYRIGHT 2021 BEVOLO GAS & ELECTRIC LIGHTS. DRAWINGS AND DESIGNS ARE OWNED BY BEVOLO AND REMAIN THE SOLE AND EXCLUSIVE PROPERTY OF BEVOLO GAS & ELECTRIC LIGHTS. DRAWINGS AND DESIGNS SHALL NOT BE DUPLICATED IN WHOLE OR PART.
3-25-21	REVISION:	12	

SIZE:	14"	18"	21"	24"	27"	30"	36"
A:	20"	24"	26"	30"	33 $\frac{3}{4}$ "	38 $\frac{3}{4}$ "	46 $\frac{3}{4}$ "
B:	14 $\frac{1}{4}$ "	15 $\frac{7}{8}$ "	17 $\frac{1}{4}$ "	20 $\frac{1}{2}$ "	21 $\frac{7}{8}$ "	25 $\frac{7}{8}$ "	31"
C:	9 $\frac{7}{8}$ "	11 $\frac{1}{4}$ "	12 $\frac{1}{8}$ "	14 $\frac{3}{8}$ "	15 $\frac{1}{4}$ "	18 $\frac{1}{4}$ "	22 $\frac{1}{4}$ "
D:	VARIES	VARIES	VARIES	VARIES	VARIES	VARIES	VARIES
E:	6 $\frac{1}{4}$ "	7 $\frac{5}{8}$ "	9 $\frac{3}{8}$ "	12 $\frac{3}{8}$ "	11 $\frac{7}{8}$ "	14 $\frac{1}{2}$ "	17 $\frac{3}{8}$ "
F:	8"	10 $\frac{1}{8}$ "	11 $\frac{1}{4}$ "	12 $\frac{7}{8}$ "	14 $\frac{3}{8}$ "	16 $\frac{1}{8}$ "	19 $\frac{5}{8}$ "



Wood is pleasing ... rich, reliable and versatile.

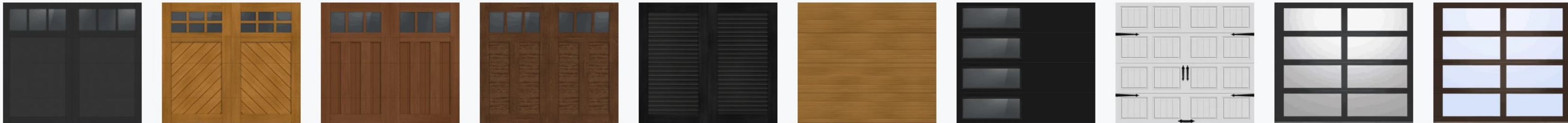
WOODEN DOORS AND WINDOWS

SINCE ITS INCEPTION, STEWART BRANNEN HAS BEEN dedicated to providing its clients with some of the finest examples of wooden fenestration and custom millwork the world over. Lewis Stewart and Edmund Brannen co-founded the company in 1989 and grew the business in a small town in Southeast Georgia. The company, now a quarter century old, is still family owned and operated; manufacturing completely custom, wooden doors and windows and custom millwork with an adamant dedication to offering both quality products and exceptional customer service.



We have a profound appreciation for wood and wood products. Providing the finest wooden doors and windows requires an understanding of not only the windows and doors themselves but also the characteristics of the wood from which these products are made. Wood is one of the world's oldest and most proven building materials. There is an intrinsic beauty in wooden doors and windows which cannot be matched. With its relatively light weight and the ease by which it can be shaped, wood allows us to build a wide array of

Select a Look



Canyon Ridge® Elements Canyon Ridge® Carriage House 5-Layer Chevron Canyon Ridge® Carriage House 5-Layer Canyon Ridge® Carriage House 4-Layer Canyon Ridge® Louver Canyon Ridge® Modern Modern Steel™ with Contemporary Windows - Premium Series with Intellicore® Gallery® Steel - Premium Series with Intellicore® Avante® VertiStack® Avante®

Similar Looks for Canyon Ridge® Carriage House 5-Layer

Contact dealer for additional options



You may also like









Canyon Ridge® Carriage House 4-Layer Canyon Ridge® Carriage House 4-Layer Canyon Ridge® Carriage House 4-Layer Canyon Ridge® Carriage House 4-Layer Canyon Ridge® Carriage House 4-Layer Canyon Ridge® Carriage House 4-Layer Canyon Ridge® Carriage House 4-Layer Canyon Ridge® Carriage House 4-Layer Canyon Ridge® Carriage House 4-Layer

Preview

Before After



Material :

	Pecky Cypress with Clear Cypress Overlay		Pecky Cypress with Mahogany Overlay
	Clear Cypress with Clear Cypress Overlay		Clear Cypress with Mahogany Overlay
	Mahogany with Clear Cypress Overlay		Mahogany with Mahogany Overlay

Base :

Overlay :

ATTACHMENT 8
Section 08 52 13
Ultimate Double Hung G2 IZ3

Part 1 General

1.1 Section Includes

- A. Ultimate Double Hung G2 IZ3, Single Hung, Transom, Picture window complete with hardware, glazing, certified mulls, weather strip, insect screen, grilles-between-the-glass, simulated divided lite, jamb extension, combination storm/screen, and standard or specified anchors, trim, attachments, factory-applied historic casing(s) and accessories.

1.2 Related Sections

- A. Section 01 33 00 – Submittal Procedures; Shop Drawings, Product Data and Samples
- B. Section 01 62 00 – Product Options
- C. Section 01 65 00 – Product Delivery
- D. Section 01 66 00 – Storage and Handling Requirements
- E. Section 01 71 00 – Examination and Preparation
- F. Section 01 73 00 - Execution
- G. Section 01 74 00 – Cleaning and Waste Management
- H. Section 01 76 00 – Protecting Installed Construction
- I. Section 06 22 00 – Millwork: Wood trim other than furnished by window manufacturer
- J. Section 07 92 00 – Joint Sealant: Sill sealant and perimeter caulking
- K. Section 09 90 00 – Painting and Coasting: Paint and stain other than factory-applied finish

1.3 References

- A. American Society for Testing Materials (ASTM):
 - 1. E283: Standard Test method for Rate of Air Leakage through Exterior Windows, Curtain Walls and Doors.
 - 2. E330: Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls and Door by Uniform Static Air Pressure Difference.
 - 3. E547: Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls and Doors by Cyclic Static Air Pressure Differential.
 - 4. E2112: Standard Practice for Installation of Exterior Windows, Doors, and Skylights

ATTACHMENT 8

5. E2190: Specification for Sealed Insulated Glass Units.
 6. C1036: Standard Specification for Flat Glass.
 7. E2068: Standard Test Method for Determination of Operating Force of Sliding Windows and Doors.
 8. E1996: Standard Specification or Performance of Exterior Windows, Curtain Walls, Door and Storm Shutters Impacted by Windborne Debris in Hurricanes.
 9. E1886: Standard Test Method for Performance Windows, Curtain Walls, Doors and Storm Shutters Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials.
 10. F2090: Standard Specification for Window Fall Prevention Devices with Emergency Escape (Egress) Release Mechanisms.
- B. American Architectural Manufacturer's Association/Window and Door Manufacturer's Association (AAMA/WDMA/CSA):
1. AAMA/WDMA/CSA 101/I.S.2/A440-08, Standard/Specification for windows, doors and skylights.
 2. AAMA/WDMA/CSA 101/I.S.2/A440-11, Standard/Specification for windows, doors and skylights.
 3. AAMA/WDMA/CSA 101/I.S.2/A440-11, NAFS 2011 – Northern American Fenestration Standard/Specification for Windows, Doors and Skylights.
- C. WDMA I.S.4: Industry Standard for Water Repellant Preservative Treatment for Millwork.
- D. Window and Door Manufacturer's Association (WDMA): 101/I.S.2 WDMA Hallmark Certification Program.
- E. Sealed Insulating Glass Manufacturer's Association/Insulating Glass Certification Council (SIGMA/IGCC).
- F. American Architectural Manufacturer's Association (AAMA): 2605: Voluntary Specification for High Performance Organic Coatings on Architectural Extrusions and Panels.
- G. National Fenestration Rating Council (NFRC):
1. 101: Procedure for Determining Fenestration Product thermal Properties.
 2. 200: Procedure for Determining Solar Heat Gain Coefficients at Normal Incidence.
- H. Window Covering Manufacturer's Association
1. A100.1: American National Standard for Safety of Corded Window Coverings Products.

1.4 System Description

- A. Design and Performance Requirements:

1.5 Submittals

- A. Shop Drawings: Submit shop drawings under provision of CSI MasterFormat Section 01 33 00.
- B. Product Data: Submit product data for certified options under provision of CSI MasterFormat Section 01 33 00. Product performance rating information may be provided via quote, performance rating summary (NFRC Data), or certified performance grade summary (WDMA Hallmark data).
- C. Samples:
 - 1. Submit corner section under provision of CSI MasterFormat Section 01 33 00.
 - 2. Specified performance and design requirements under provisions of CSI MasterFormat Section 01 33 00.

1.6 Quality Assurance

- A. Requirements: consult local code for IBC [International Building Code] and IRC [International Residential Code] adoption year and pertinent revisions for information on:
 - 1. Egress, emergency escape and rescue requirements.
 - 2. Basement window requirements.
 - 3. Windows fall prevention and/or window opening control device requirements.

1.7 Delivery

- A. Comply with provisions of Section 01 65 00.
- B. Deliver in original packaging and protect from weather.

1.8 Storage and Handling

- A. Prime and seal wood surfaces, including to be concealed by wall construction, if more than thirty (30) days will expire between delivery and installation.
- B. Store window units in an upright position in a clean and dry storage area above ground to protect from weather under provision of Section 01 66 00.

1.9 Warranty

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1. Complete and current warranty information is available at marvin.com/warranty. The following summary is subject to the terms, conditions, limitations and exclusions set forth in the Marvin Windows and Door Limited Warranty and Products in Coastal Environments Limited Warranty Supplement:
 - A. Clear insulating glass with stainless steel spacers is warranted against seal failure caused by manufacturing defects and resulting in visible obstruction through the glass for twenty (20) years from the original date of purchase. Glass is warranted against stress cracks caused by manufacturing defects from ten (10) years from the original date of purchase.
 - B. Standard exterior aluminum cladding finish is warranted against manufacturing defects resulting in chalk, fade and loss of adhesion (peel) per the American Architectural Manufacturer's Association (AAMA) Specification 2605-11 Section 8.4 and 8.9 for twenty (20) years from the original date of purchase.
 - C. Factory-applied interior finish is warranted to be free from finish defects for a period of five (5) years from the original date of purchase.
 - D. Hardware and other non-glass components are warranted to be free from manufacturing defects for ten (10) years from the original date of purchase.

Part 2 Products

2.1 Manufactured Units

- A. Description: Ultimate Double Hung G2 (and related stationary units) as manufactured by Marvin Windows and Doors, Warroad, Minnesota.

2.2 Frame Description

- A. Interior: Non Finger-Jointed Pine or finger-jointed core with non finger-jointed Pine veneer; optional non finger-jointed Douglas Fir or finger-jointed core with non finger-jointed Douglas Fir veneer; optional non finger-jointed White Oak or finger-jointed with non finger-jointed Oak veneer; non finger-jointed Cherry or finger-jointed core with Cherry veneer; non finger-jointed Mahogany or finger-jointed core with non finger-jointed Mahogany veneer; non finger-jointed Vertical Grain Douglas Fir or finger-jointed with non finger-jointed Vertical Grain Douglas Fir veneer
 1. Kiln-dried to moisture content no greater than 12 percent at the time of fabrication.
 2. Water repellant, preservative treated in accordance with ANSI/WDMA I.S.4.
- B. Frame exterior aluminum clad with 0.050" (1.3mm) thick extruded aluminum.
- C. Frame thickness: 1 25/32" (45mm) head and jambs.
- D. Frame depth: Frame depth had an overall 5 21/32" jamb (144mm). 4 9/16" (116mm) jamb depth from the nailing fin plane to the interior face of the frame for new construction.

- E. Sill assembly including the sill liner: 2 7/32" (56mm).
- F. Factory-applied historic profile extrusion

2.3 Sash Description

- A. Interior: Non Finger-Jointed Pine or finger-jointed core with non finger-jointed Pine veneer; optional non finger-jointed Douglas Fir or finger-jointed core with non finger-jointed Douglas Fir veneer; optional non finger-jointed White Oak or finger-jointed with non finger-jointed Oak veneer; non finger-jointed Cherry or finger-jointed core with Cherry veneer; non finger-jointed Mahogany or finger-jointed core with non finger-jointed Mahogany veneer; non finger-jointed Vertical Grain Douglas Fir or finger-jointed with non finger-jointed Vertical Grain Douglas Fir veneer.
 - 1. Kiln-dried to moisture content no greater than twelve (12) percent at the time of fabrication.
 - 2. Water repellant preservative treated in accordance with WDMA I.S.4.
- B. Sash exterior aluminum clad with 0.050" (1.3mm) thick extruded aluminum.
- C. Sash thickness: 1 3/4" (44mm). Corner slot and tenoned
- D. Operable sash tilt to interior for cleaning or removal.
- E. Sash Options: Unequal Sash.
- F. Exterior Cope Profile
 - 1. Putty
- G. Interior Sash Sticking
 - 1. Standard: Ogee
 - 2. Optional: Square

2.4 Glazing

- A. Select quality complying with ASTM C1036. Insulating glass SIGMA/IGCC certified to performance level CBA when tested in accordance with ASTM E2190.
- B. Glazing method: Insulating glass.
- C. Glazing seal: Silicone bedding on interior and exterior.
- D. Gas fill: Air with capillary tubes, Argon
- E. Glass Type: Clear, Bronze, Gray, Reflective Bronze, Tempered, Obscure, Low E2, Low E3, Low E1 wi, Low E2/ERS, Low E3/ERS.

2.5 Certified Mulling

- A. IZ3 standard 2W vertical 1H mull
 - 1. Max mullion span is 63 1/2" (1613mm); max tributary width 45 1/4" (1149mm).
 - 2. Certified to Design Pressure 65.
- B. IZ3 2W vertical 1H mull with 3/8" (10mm) MRF
 - 1. Max mullion span is 79 1/2" (2019mm); max tributary width 45 7/16" (1153mm).
 - 2. Certified to Design Pressure 65.
- C. IZ3 standard 2H horizontal 1W mull
 - 1. Max mullion span is 49 1/4" (1149mm); max tributary width is 53 19/32" (1361mm).
 - 2. Certified to Design Pressure 65.
- D. If any units have a lower design pressure the entire assembly will have the lowest design pressure of any unit or mull in the assembly.
- E. Items not included in certified mull: space mulls, stud pockets, unreinforced multi-wide multi-high assemblies.

2.6 Finish

- A. Exterior: Aluminum clad. Fluoropolymer modified acrylic topcoat over a primer. Meets AAMA 2605 requirements.
 - 1. Aluminum clad color options: Bahama Brown, Bronze, Cadet Gray, Cascade Blue, Cashmere, Clay, Coconut Cream, Ebony, Evergreen, Gunmetal, Hampton Sage, Pebble Gray, Sierra White, Stone White, Suede, Wineberry, Bright Silver (pearlescent), Copper (pearlescent), Liberty Bronze (pearlescent)
 - 2. Custom colors: Contact your Marvin representative.
- B. Interior Finish options:
 - 1. Prime: Factory-applied water-borne primer. Meets WDMA TM-11 requirements.
 - 2. Painted Interior Finish. Factory-applied water-borne acrylic enamel. Available on Pine product only. Available in White or Designer Black. Meets WDMA TM-14 requirements.
 - 3. Factory-applied water-borne acrylic enamel clear coat. Applied in two separate coats with light sanding between coats. Available on Pine, Mahogany, Mixed Grain Douglas Fir, Vertical Grain Douglas Fir, Cherry, or White Oak. Meets WDMA TM-14 requirements.

4. Factory-applied water-borne urethane stain. Stain applied over a wood (stain) conditioner. A water-borne acrylic enamel clear coat applied in two separate coats, with light sanding between coats, applied over the stain. Available on Pine, Mahogany Mixed Grain Douglas Fir, Vertical Grain Douglas Fir, Cherry, or White Oak. Colors available: Wheat, Honey, Hazelnut, Leather, Cabernet, and Espresso. Meets WDMA TM-14 requirements.

2.7 Hardware

- A. Locking system that provides locking, unlocking, balancing, and tilting of the sash members.
- B. Lock Actuator Assembly
 1. Material:
 - a. Zinc die-cast
 - b. Available finishes: Satin Taupe, White, Bronze, Matte Black, Brass, Antique Brass, Polished Chrome, Satin Chrome, Oil Rubbed Bronze, or Satin Nickel
 2. Design Feature and Components:
 - c. To unlock unit, turn the handle 135°.
 - d. Lock automatically locks when both sash are closed.
 - e. To tilt the bottom sash for wash mode, the bottom sash must be unlocked and raised a few inches; push the button on top of the lock handle and rotate the handle 180°.
 - f. To tilt the top sash for wash mode, the bottom sash must be tilted and/or removed from the frame; lower the top sash to a good working height, retract the tilt latches on the top rail and tilt sash inward out of the frame.
 - g. Custodial hardware – colors: satin taupe, white, bronze, matte black.
- C. Bottom Rail Lock Actuator Assembly - Lift Lock (Optional for Single Hung)
 1. Material
 - a. Zinc die-cast
 - b. Available finishes: Satin Taupe, White, Bronze, Matte Black, Brass, Antique Brass, Polished Chrome, Satin Chrome, Oil Rubbed Bronze, or Satin Nickel
 2. Design Feature and Components
 - h. Does not contain Check Rail Lock Actuator Assembly or Strike Assembly
 - i. Available in Traditional and Contemporary designs
 - j. To unlock unit, lift the lock
 - k. Lock automatically locks when bottom sash is closed.

ATTACHMENT 8

- I. To tilt the bottom sash for wash mode, raise the bottom sash and manually retract the latches.
- m. Custodial hardware colors (available with traditional design): Satin Taupe, White, Bronze, Matte Black

D. Latches

- 1. Bottom sash latch,
 - a. Material
 - i. Bolt: Glass-filled nylon
 - ii. Latch housing: Acetal
 - iii. Sash latch reinforcement: Stainless steel
- 2. Top sash tilt latch.
 - a. Material
 - i. Bolt: Glass-filled nylon
 - ii. Latch housing: Glass-filled nylon
- 3. Latches accommodate travel of sash in frame, and tilting into wash-mode.
- 4. Color: Beige (manual latch for Lift Lock also available in White and Black)

E. Strike Assembly

- 1. Material
 - a. Zinc die-cast strike plate and injection-molded Acetal housing and button
 - b. Available finishes: Satin Taupe, White, Bronze, Matte Black, Brass, Antique Brass, Polished Chrome, Satin Chrome, Oil Rubbed Bronze, or Satin Nickel
- 2. Strike assembly accommodates locking/un-locking

F. Balance System (balance system determined by sash weight)

- 1. Block & tackle balances
- 2. Hybrid spiral balances

G. Sash Limiter

- 3. Bottom Sash Limiter
 - a. Available on all operator configurations, and StormPlus IZ3
 - b. Selectable bottom sash locations, 4", 6" or 8" Net Clear Opening (NCO)

- c. Non-tilt hardware is default, and a sash removal tool is required in order to bypass the Sash limiter for sash removal (tilt wash mode)
 - d. Standard application is factory applied. Available for field retrofit applications.
 - e. Color: Will align with the Interior Weather Strip Package selection
- 4. Top Sash Limiter
 - a. Available on all operator configurations, with the exception Single Hung configurations. This includes StormPlus IZ3
 - b. Standard application is factory applied. Available for field applications
 - c. Color: Will align with the Exterior Weather Strip Package selection
- H. Factory-applied Window Opening Control Device (WOCD) is a sash limiter that prevents the window opening more than 4" vertically. It meets ASTM F2090 specifications for window fall prevention standards. The system consists of a device that allows for egress (when applied to an egress size window) by bypassing the 4" stop feature.
 - 1. Material
 - a. WOCD device: zinc die-cast
 - b. WOCD strike plate: nylon
 - 2. Two WOCD's applied to each double and single hung window and will be recessed into the stiles of the top sash.
 - 3. Default color matches lock handle.
 - 4. Strike plate mounted to the bottom sash check rail.
 - 5. Strike plate color to match weather strip.

2.8 Weather Strip

- A. Operating units:
 - 1. Jambs: Foam-filled bulb
 - 2. Head Jamb: Continuous dual leaf
 - 3. Bottom rail and check rail: Hollow bulb
- B. Stationary units:
 - 1. Jambs: Foam for picture units; foam-filled bulb for transom unit
 - 2. Header and bottom rail: Hollow bulb

2.9 Jamb Extension

- A. Jamb extensions are available for various wall thickness factory-applied up to a 14" (356mm) wide.
- B. Finish: Match interior frame finish.

2.10 Insect Screen

- A. Factory-installed full or half screen. Half screen covers sash opening.
- B. Screen mesh: Standard is Marvin Bright View™. Optional Charcoal Aluminum Wire, Black Aluminum Wire, Bright Bronze Aluminum Wire, Bright Aluminum Wire.
- C. Screen Frame:
 - 1. Window Frame Height less than or equal to 54 ½" Aluminum Screen Frame. Option: Extruded Aluminum Screen Frame.
 - 2. Window Frame Height greater than 54 ½" Extruded Screen Frame. Option: None.

2.11 Combination Storm Sash and Screen

- D. Frame: treated Pine wood or white primed
- E. Finish: Fluoropolymer modified acrylic topcoat applied over Fluoropolymer primer. Meets AAMA 2605 requirements.
 - 3. Finish: Stone White, Bahama Brown, Bronze, Pebble Gray
- F. Hardware: Spring loaded locking pins to hold movable storm panel in position. Heavy metal clips to lock upper and lower storm panels together.
- G. Weather strip: Dual durometer weather strip on center cross rail seals against operating panel in closed position.
- H. Storm panel: Select quality glass in aluminum frame
 - 4. Frame finish: Standard color: Stone White, Bahama Brown, Bronze, Pebble Gray.
- I. Insect screen panel:
 - 1. Extruded aluminum surround.
 - 2. Screen mesh: Standard is Charcoal Aluminum Wire, Optional: Marvin Bright View™.
 - 3. Aluminum frame finish: Bronze, White.

2.12 Simulated Divided Lites (SDL)

ATTACHMENT 8

- A. 5/8" (16mm) wide, 7/8" (22mm) wide, 1 1/8" (29mm) wide, 1 3/4" (44mm) wide, 1 15/16" (49mm) wide, 2 13/32" (61mm) wide with or w/out internal spacer bar.
- B. Exterior muntins: 0.050" (1.3mm) thick extruded aluminum.
- C. Interior muntins: Pine, Mixed Grain Douglas Fir, White Oak, Cherry, Mahogany Vertical Grain Douglas Fir
- D. Muntins adhere to glass with closed-cell copolymer acrylic foam tape.
- E. Exterior Sticking:
 - 1. Putty
- F. Interior Sticking:
 - 2. Standard: Ogee
 - 3. Optional: Square
- G. Patterns: Rectangular, diamond, custom lite cut
- H. Finish – exterior matches exterior aluminum clad colors, interior matches interior wood species and color.

2.13 Grilles-Between-the-Glass (GBG)

- A. 23/32" (18mm) contoured aluminum bar.
 - 1. Exterior Colors: Exterior matches exterior aluminum clad colors. The exterior GBG color is designed to best match the Marvin aluminum clad color when used with Low E glass. The use of different types of glazing may alter the exterior GBG color appearance.
 - 2. Interior Colors: White is the default color. Optional colors: Bronze, Pebble Gray, Sierra, White
- B. Optional flat aluminum spacer bar. Contact your Marvin representative.
- C. Pattern: Rectangular, Cottage, Custom lite layout

2.14 Accessories and Trim

- A. Installation Accessories:
 - 1. Factory-installed vinyl nailing/drip cap
 - 2. Installation brackets: 6 3/8" (162mm), 9 3/8" (283mm), 15 3/8" (390mm)
 - 3. Masonry brackets: 6" (152mm), 10" (254mm)
- B. Aluminum Extrusions:

ATTACHMENT 8

1. Casing Profile: Brick Mould Casing (BMC), Flat Casing, Columbus Casing, Grayson Casing, Ridgeland Casing, Stratton Casing, Thorton Casing, Potter Casing.
 2. Aluminum clad Extrusion: Frame Expander, Jamb Extender, Mullion Cover, Mullion Expander, Subsill, Subsill End Cap and Lineal Cap.
 3. Finish: Fluoropolymer modified acrylic topcoat applied over primer. Meets AAMA 2605 requirements.
 4. Available in all exterior aluminum clad colors
- C. Historic casing, factory-applied profiles: Ridgeland, Flat, BMC, Custom
1. Subsills factory-applied
- D. Exterior Sash Lugs – Standard Option
1. Standard Profile: Ogee
 2. Available on Top Sash
 3. Color: Available in all exterior clad color options
 - a. Color shall be the same as top sash clad color
 4. Standard application is factory-applied. Available for field applications

2.15 L

A. Lock Status Sensor

4. Unit is factory-prepared for an integrated lock status sensor system. Sensor and Magnet mounted inside the boundaries of the overall frame size. Refer to **Lock Status Sensor Installation Instructions**.
5. Lock Status Sensor may be wired or wireless.
 - a. For wired option, check with local codes on potential contractor requirements for low voltage networking connections.
 - b. Wireless option available. Requires purchase of secondary transmitter for operation. Marvin will prep for this option.

6. For CUDH-NG 2.0 products, the sensor will always be located on the right-hand side of the check rail (from the exterior) for the bottom sash. For the top sash, the sensor will be located in the header parting stop of the frame on the right side (from the exterior).
7. Actuator (magnet) for the sensor will be located on the stile for the top sash. For the bottom sash, it will be integrated into the locking hardware on the same side as the sensor.

B. Lock Status Sensor Option Includes:

1. Sensor - Reed
2. Actuator – Neodymium Magnet
3. Actuator Cover (Casement and Double Only)
 - a. Colors: Black: Bare, stain and designer black; White: PIF-White and Prime

Part 3 Execution

3.1 Examination

- A. Verification of Condition: Before installation, verify openings are plumb, square and of proper dimensions as required in Section 01 71 00. Report frame defects or unsuitable conditions to the General contractor before proceeding.
- B. Acceptance of Condition: Beginning on installation confirms acceptance of existing conditions

3.2 Field Quality Control

- A. Remove visible labels and adhesive residue according to manufacturer's instruction.
- B. Unless otherwise specified, air leakage resistance tests shall be conducted at a uniform static pressure of 75 Pa (~1.57 psf). The maximum allowable rate of air leakage shall not exceed 2.3 L/sm² (~0.45 cfm/ft²).

3.3 Cleaning

- A. Remove visible labels and adhesive residue according to manufacturer's instruction.
- B. Leave windows and glass in a clean condition. Final cleaning as required in Section 01 74 00.

3.4 Protecting Installed Construction

- A. Comply with Section 07 76 00.
- B. Protecting windows from damage by chemicals, solvents, paint or other construction operations that may cause damage.

End of Section

ATTACHMENT 8

Atlantic Premium Shutters®



BECAUSE EVERY HOME
TELLS A STORY.



The Architectural Collection

Repeating history, accurately and beautifully.

The Architectural Collection



Panel | Midnight Sky 639

Panel

Panel shutters offer a clean, handsome and elegant look for a variety of historic or modern home styles. The artistic depth and curves on the panels dramatically catch sunlight and impart alluring shadows. Popular two-panel and three-panel designs bring deep texture and solid, artistic appeal. A wealth of options is available for added sophistication, limited only by your imagination.



Standard



Single Panel



Extra Panel



Custom Rail Location



Arch or Radius Top



Panel & Louvered Colonial | Forest Green 633



Single Panel with
Vertical Cut Profile



Chamfered Panel



Flat Panel



V-Groove Flat Panel

ATTACHMENT 8



TRADITIONAL HARDWARE



Pintel on Plate

- Sold in pairs
- Pintel plate - 1-1/2" x 3-1/2" x 1/8"
Pin diameter - 3/8"
- Stainless steel with a matte black powder coat finish
- Offsets: 1/2", 1-1/2", 2-1/4", 3-1/2"



Jamb Pintel

- Sold in pairs
- Stainless steel with a matte black powder coat finish
- Offsets: 1/2", 1", 2"



4" Lag Pintel

- Sold in pairs
- Stainless steel with a matte black powder coat finish
- Pin diameter: 3/8"



Pintel Shim

- Sold as each
- Shim is 1/4" thick and stackable
- Black polyamide plastic



6" L-Hinge with Throw

- Sold in same size pairs
- Stainless Steel with a matte black powder coat finish
- Offsets: 0", 1/2", 1-1/2", 2-1/4"



Flat Hinge with Throw

- Sold in pairs
- Stainless Steel with a matte black powder coat finish
- Offsets: 0", 1/2", 1-1/2", 2-1/4"



No Throw 6" L-Hinge

- Sold in same size pairs
- Stainless steel with a matte black powder coat finish
- Offset: 0"



No Throw Flat Hinge

- Sold in pairs
- Stainless steel with a matte black powder coat finish
- Offset: 0"



Strap Hinge

- Sold in pairs
- Stainless steel with a matte black powder coat finish
- Two sizes, 10" and 12"
10" Offsets: 0", 1/2", 1-1/2", 2-1/4"
12" Offsets: 1/2", 1-1/2"



Decorative Hinge

- Sold in pairs
- Stainless steel with a matte black powder coat finish
- Non-operable
- Two sizes, 10" and 12"



6" Lag Bolt

- Sold in pairs
- Stainless Steel with a matte black powder coat finish
- For use with "S" and Rat-Tail Holdbacks



12" Slide Bolt

- Sold as each
- Stainless Steel with a matte black powder coat finish
- Two options, standard and locking



Acorn Holdback

- Sold as each
- Chromed Bronze Bullet
- Solid steel hanger bolt and spring clip



Dog Post Holdback

- Sold as each
- Stainless steel with a matte black powder coat finish



"S" Holdback

- Sold in pairs with 4" lag bolt, washer and cotter pin
- Stainless steel with a matte black powder coat finish



Rat-Tail Holdback

- Sold in pairs with 4" lag bolt, washer and cotter pin
- Stainless steel with a matte black powder coat finish

Uncompromisingly Durable

The shutters of the Architectural Collection beautifully reflect the time-honored look and functionality of traditional shutter design. Made with superior-quality materials, these shutters provide a lifetime of classic exterior charm without any maintenance required. The fully-functional shutters of the Architectural Collection are comprised of our Panel, Louvered Colonial, Combination and Bahama shutter styles.

Hand-crafted Quality

The Architectural Collection uses modern materials with a centuries-old technique of mortise and tenon joinery to provide the strongest structural joint. And our shutters are hand-cut and hand-assembled to meet your exact specifications.

Durable Down to the Last Detail

Architectural Collection shutter frames feature unsurpassed durability due to the strength of the marine-grade fiberglass used in our proprietary stile and louver designs.

We use our own proprietary, exterior grade composite wood to manufacture solid, sturdy shutter panels. The shutter rails are crafted from single-sheet, structural-grade PVC delivering strength and stability, and allowing for custom rail sizing in combination and louver style only. The specialized tooling of each of our selected materials enables the creation of fine, historically-correct detail.

Finishing Touches

Our advanced finishing process gives you enduring, vibrant colors that last a lifetime and our partnership with the world leader in finishes allows us to match almost any color. Meaning you can find the color you seek. And be sure you won't have to go through the agony of locating it ever again.

The ProSeries

Atlantic's ProSeries Shutters are hand-assembled from exterior-grade composite wood components that will not rot, crack or split. ProSeries Shutters come ready to be painted with any high-quality exterior paint of your choice.



Louver



Raised Panel

Stand out from the crowd

Design details complete the front and back of each shutter, with four handsome styles available: Louver, Raised Panel, Flat Panel and Board and Batten. Corners and joints are true and square with tongue and groove construction that provides superior strength.

Each ProSeries shutter is machine sanded and finished with a single coat of marine-grade primer, reducing your time in applying a finish coat of paint.

The choice for versatility, custom color and outstanding charm.



Flat Panel



Board and Batten

Versatile

ProSeries shutters can be specified to correct window scale or sized as desired. Widths are available from 12" to 24" in half-inch increments; heights from 30" to 84" in inch increments. Quarter Round Arch Tops are also available. ProSeries shutters may be installed in fixed or operable applications and are backed by a 3-year structural warranty.

Unique Cut-outs

Anything but cookie-cutter.



Nothing provides warmth like a personal touch. With our standard and custom cut-out capabilities, you can enhance your home with inviting charm and a singular, beautiful look.

From stars to crescent moons and palm trees, cut-outs add eye-catching dimension and uncommon style, while at the same time letting your individuality shine through.

Standard cut-outs

Palm, Moon, Pineapple, Anchor, Star, Heart, Tree, Diamond and Sailboat.

Unique Cut-outs



Classic Collection | Raised Panel | Anchor Cut-out | Harbor 645

Authentic Hardware



A detail no one will miss.

Our architecturally-correct and historically accurate hardware is a small detail that speaks volumes to the attentive style of your home. An ornament in themselves, they evoke the craftsmanship of a blacksmith forging clean, elegantly simple architectural elements.

For fixed mounting applications, a clean finish is possible by using our clear polycarbonate L-brackets. Bahama shutters use aluminum hardware that is available in a mill or anodized aluminum black finish.

Authentic Hardware



Providing full utility, our durable hardware is forged from 304 series stainless steel with a matte black, powder coat finish. From depth-enhancing Slide Bolts to smoothly attractive “S” Holdbacks and Rat-tail Holdbacks, hardware pieces amplify style with endearing simplicity.

When shutters are in the open position, our traditional hardware adds beautiful dimension by setting the shutters off from the home, allowing a hint of exterior cladding to be visible between each shutter leaf and the structure for a noticeable fine touch.

Impact-Resistant Storm Shutters



Bahama Storm System
Can be locked from the inside and outside



"U" Locking Storm Bar System
Locks from the inside



Horizontal Storm Bar System
Locks from the outside

You can count on Atlantic's Impact-Resistant storm shutters to protect your coastal home. Atlantic's Inside Locking U-Shaped Storm Bar System features two U-shaped storm bars that lock from the interior when the shutters are closed. Each shutter leaf has a 1/8" thick clear polycarbonate panel fastened to its back, helping protect the shutter leaf, the window and your home's interior. The system meets the Large Missile Impact Test requirement as specified in the IRC and IBC 2006.

The system is available for Architectural shutters in Louver or Raised Panel styles (does not apply to arch and radius top shutters, cut-outs, combination styles, flat panel, or v-groove). When your shutters are in the open position, the polycarbonate backing remains hidden from view, so your home evokes a scenic, seamless charm.

Impact-Resistant Storm Shutters

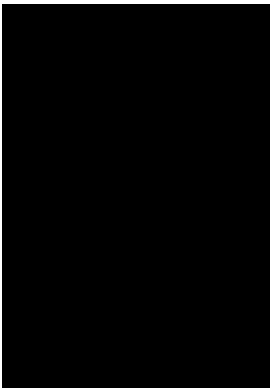


High Level of Home Protection

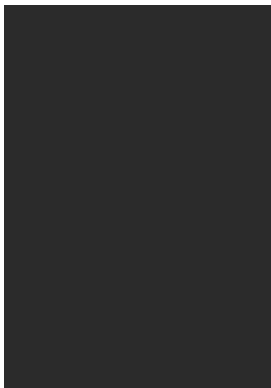
The Bahama Storm System offers the same high level of home protection, but with our unique Bahama style Architectural Collection Shutters that offer sleek, versatile aesthetics. A 1/8" thick clear polycarbonate panel is permanently attached to the back of the shutter. A camelback locking system specifically designed for the Bahama style is installed along the sides of the shutter. With the Bahama Storm System, you gain privacy, ambient light, fresh air, and home-protecting toughness independently tested to a design pressure of 60 PSF.

The Bahama Storm System meets the Large Missile Impact Test requirement as specified in the IRC and IBC 2006. This system also meets the State of Florida Building Code 2007.

Color



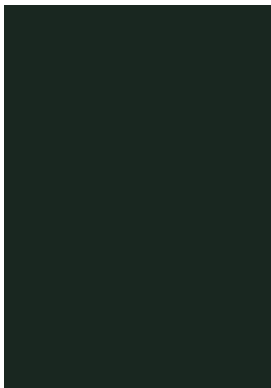
Black
632



Charleston Green
653



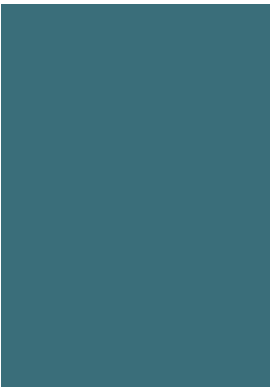
Rookwood Shutter Green
654



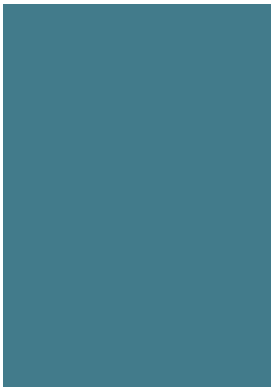
Roycraft Bottle Green
655



Evergreen
638



Hamilton Blue
667



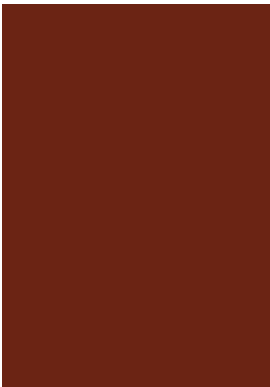
Harbor
645



Cascade
647



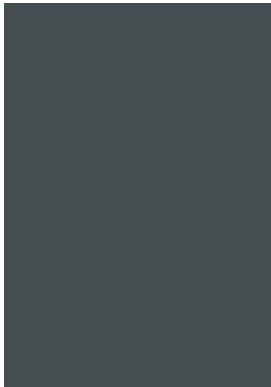
Roycraft Copper Red
668



Board & Batten Red
650



Hammered Silver
661



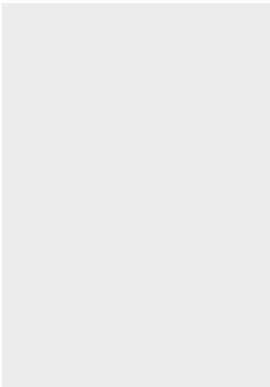
Roycraft Pewter
663



Pewter
646



Chelsea Gray
662



White
631

Visually Striking Colors to Set You Apart.



Forest Green
633



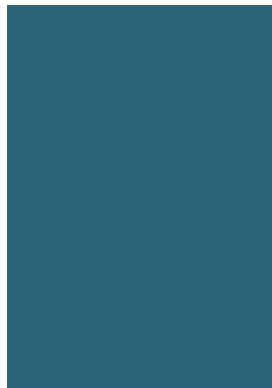
Pine
644



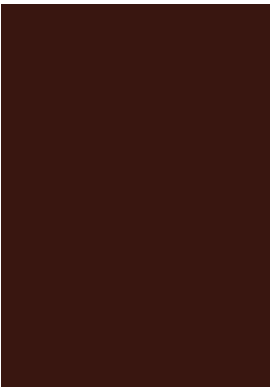
Midnight Sky
639



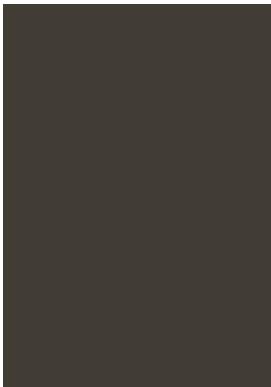
Deep Sea Blue
637



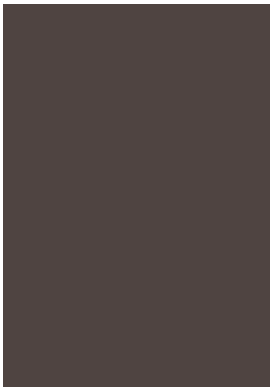
Tempest Blue
666



Polished Mahogany
657



Federal Brown
635



Walnut
641



Weathered Shingle
660



Sand
642

Don't see what you're looking for? Try out our custom color program.
Our partnership with the world leader in finishes allows us to match almost any color!

ARCHITECTURAL COLLECTION

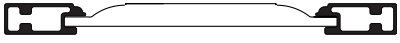
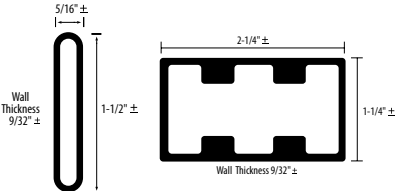

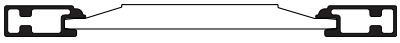
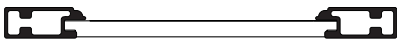
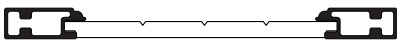
Installation: To be installed in either an operable or fixed application in accordance with manufacturer's recommendations, with no nailing or screwing through face of shutter. See installation instructions for measuring and ordering.

Hardware – Colonial style shutters: Black powder coated stainless steel, all other fasteners also to be stainless steel.

Hardware – Bahama: Aluminum mill or anodized aluminum black finish arms. Hinges are aluminum with factory-applied two-part acrylic urethane finish.

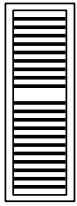
Performance: All fiberglass louvers and side rails to be thermally stable from –100°F to +200°F.

Warranties: Limited Lifetime against defects in materials and factory paint finish. Limited to original purchaser. See warranty for complete details.

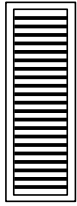
PANEL	LOUVERED COLONIAL	COMBINATION
 Standard Raised Panel		 Consists of louver and panel components
 Chamfered Panel		
 Flat Panel		
 Flat Panel, V-Groove		

Rails	Structural PVC with smooth outer skin		
Panels	Proprietary exterior grade composite wood materials	N/A	Structural PVC with smooth outer skin
Louvers	N/A	Pultruded Structural Fiberglass	
Stiles	Pultruded Structural Fiberglass		
Primer	Entire product primed	N/A	Entire product primed
Paint Finish	Industrial grade two-part urethane, oven cured finish. 25 standard colors (custom colors available).		
Thickness	1"	1-1/4"	1-1/4"
Width	12" - 30" (in 1/8" increments)	9" - 30" (in 1/8" increments) <i>Rail widths, if specified, may vary slightly due to louver/slat positioning</i>	12"-30" (in 1/8" increments) <i>Rail widths, if specified, may vary slightly due to louver/slat positioning</i>
Height	24"-119" (in 1/8" increments)	13-1/2"-119" (in 1/8" increments)	24"-119" (in 1/8" increments)
Vertical Stile	2-1/4"	2-1/4"	2-1/4"
Top Rail	3"	Standard 4"	4"
Middle Rail	3"	Standard 3-3/8"	4"
Bottom Rail	3"	Standard 4" (may vary)	4"
Custom Rail Height	N/A	Available 1-1/4" increments from standard rail	
Louver Angle	N/A	25°	
Addl Rail	N/A	3-3/8" or may vary 1-1/4" increments	3-3/8" or may vary 1-1/4" increments

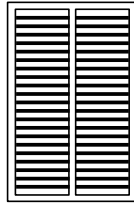
ARCHITECTURAL COLLECTION



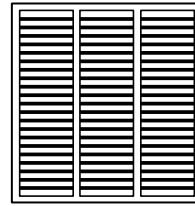
Less than 30"
With Mid-Rail



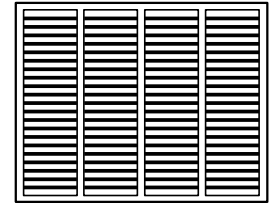
Less than 30"



Widths from
30" – 59.875" require
1 vertical mullion
(automatically added).

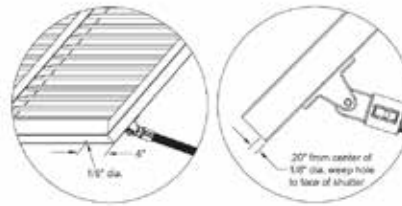
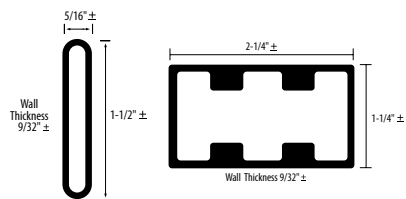


Widths from
60" – 89.875" require
2 vertical mullions
(automatically added).



Widths from
90" – 119" require
3 vertical mullions
(automatically added).

BAHAMA



Optional:

Weep hole 1/8" inch diameter on each side of the shutter. Must be requested.

Rails	Pultruded Structural Fiberglass
Slats	
Stiles	
Paint Finish	Two-part Urethane
Thickness	1-1/4"
Width	12"-119" (in 1/8" increments)
Height	18-1/2"-119" (in 1-1/2" increments)
Vertical Stile	2-1/4"
Top Rail	2-1/4"
Middle Rail	2-3/4"
Bottom Rail	2-1/4"
Louver Angle	36°
Prop Arm Angle	30°

Available Bahama Shutter Heights (Inches)



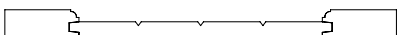
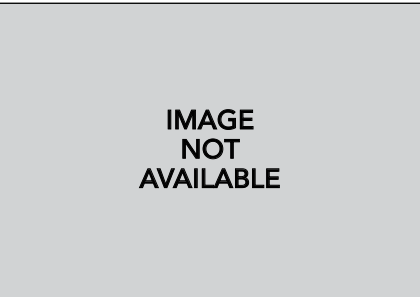
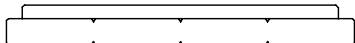
18.5	27.5	36.5	45.5	54.5	63.5	72.5	81.5	90.5	99.5	108.5	119
20	29	38	47	56	65	74	83	92	101	110	
21.5	30.5	39.5	48.5	57.5	66.5	75.5	84.5	93.5	102.5	111.5	
23	32	41	50	59	68	77	86	95	104	113	
24.5	33.5	42.5	51.5	60.5	69.5	78.5	87.5	96.5	105.5	111	
26	35	44	53	62	71	80	89	98	107	117.5	

CLASSIC COLLECTION

Installation: To be installed in a fixed or operable application in accordance with manufacturer's recommendations, with no nailing or screwing through face of shutter. Classic Raised Panel and Louver only can be installed operable.

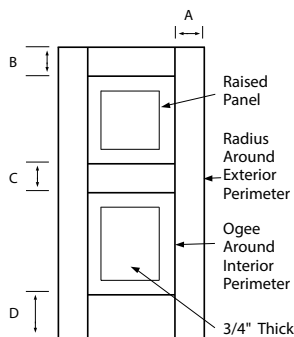
Hardware: Clear polycarbonate mounting brackets for fixed mounting. Black powder coated stainless steel for operable mounting.

Warranties: 10 Year against defects in materials and factory paint finish. Limited to original purchaser. See warranty for complete details.

	PANEL	FAUX LOUVER	BOARD AND BATTEN
	 <p>Standard Raised Panel</p>  <p>Flat Panel</p>  <p>Flat Panel, V-Groove</p>	 <p>IMAGE NOT AVAILABLE</p>	
Rails	Proprietary Exterior Grade Composite Wood		
Panels			
Stiles			
Primer	Marine Grade		
Paint Finish	Industrial grade two-part urethane, oven cured finish. 25 standard colors (custom colors available).		
Thickness	—	—	1", Batten is 1/2"
Width	12"–24" (in 1/8" increments)	9"–24" (in 1/8" increments)	
Height	13-1/2"–96" (in 1/8" increments)		13-1/2"–84" (in 1/8" increments)
Batten Height	—	—	4"
Batten Width	—	—	1-1/2" Less than shutter width
Board Width	—	—	Grooves are cut approx. every 4"

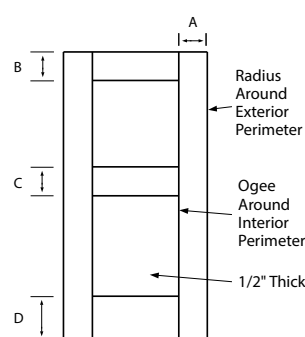
RAISED PANEL

Thickness: 1"
Vertical Stile Width (A): 2-1/2"
Top Rail Height (B): 2-1/2"
Middle Rail Height (C): 2-1/2"
Bottom Rail Height (D): 4-1/8"



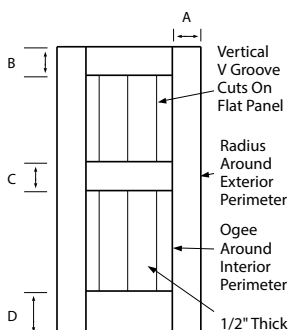
FLAT PANEL

Thickness: 1"
Vertical Stile Width (A): 2-1/2"
Top Rail Height (B): 2-1/2"
Middle Rail Height (C): 2-1/2"
Bottom Rail Height (D): 4-1/8"



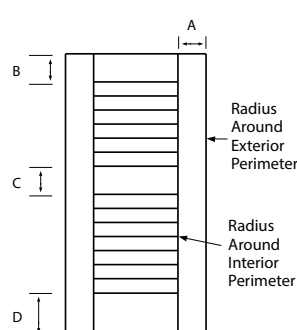
PANEL, V-GROOVE

Thickness: 1"
Vertical Stile Width (A): 2-1/2"
Top Rail Height (B): 2-1/2"
Middle Rail Height (C): 2-1/2"
Bottom Rail Height (D): 4-1/8"



LOUVER

Thickness: 1-1/4"
Vertical Stile Width (A): 2-1/2"
Top Rail Height (B): 2-1/2"
Middle Rail Height (C): 2-1/2"
Bottom Rail Height (D): 2-3/4"–4"
Louver Angle: 22°



PROSERIES

Atlantic's ProSeries shutters are hand-assembled from exterior-grade composite wood components that will not rot, crack or split. ProSeries shutters come ready to be painted with any high-quality exterior paint of your choice. Each shutter is machine sanded and finished with a single coat of marine-grade primer reducing your time in applying a finish coat of paint.

ProSeries shutters are available in four different styles.

- Louver, Raised Panel, Flat Panel, Board and Batten.
- Quarter Round Arch Tops are available on all styles.

ProSeries shutters are available in the following sizes.

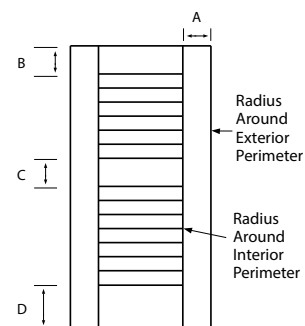
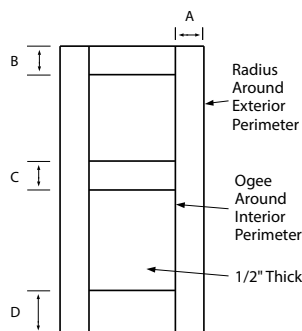
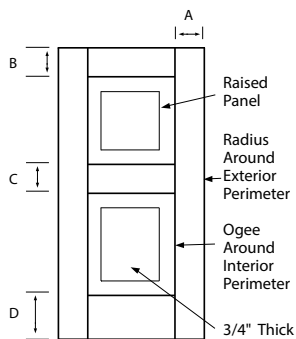
- Widths 12" to 24" in 1/2" increments.
- Heights 30" to 84" in 1" increments.

ProSeries shutters are primed only and should receive a finish coat of paint.

- Any good quality exterior grade finish paint should be used.
- Each shutter should be scuffed with a fine grit sandpaper prior to application of the finish paint coat.

Hardware for ProSeries Shutters is provided separately.

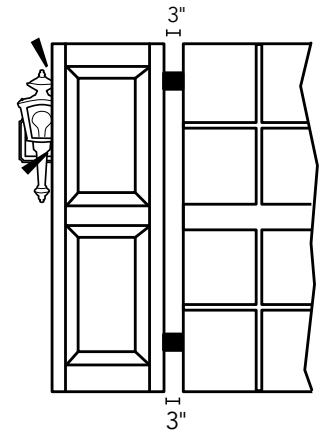
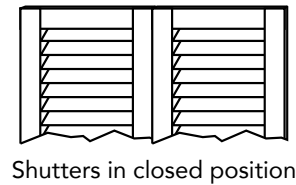
ProSeries shutters are backed by a 3-year structural warranty.



To deflect rain away from the structure, louvered shutters should be installed so the louvers face AWAY from the structure when shutters are closed.

Shutter swing is 3" per shutter from the edge of the open shutter to the edge of the window opening when the shutter is closed; be sure to check for proper clearance (i.e. lamps, fixtures) when the shutter is in the open position.

Hinges are usually applied to the back of the shutter. They are only visible in their entirety when the shutter is in the closed position.



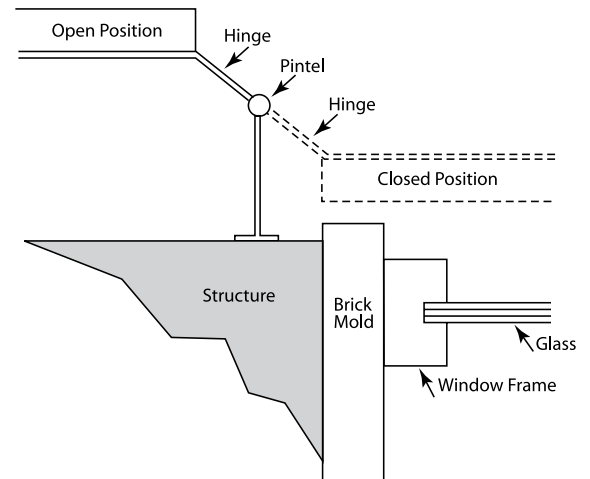
Ensure proper clearance of shutters.

EXAMPLES OF COMMON INSTALLATION OPTIONS - TRADITIONAL HARDWARE

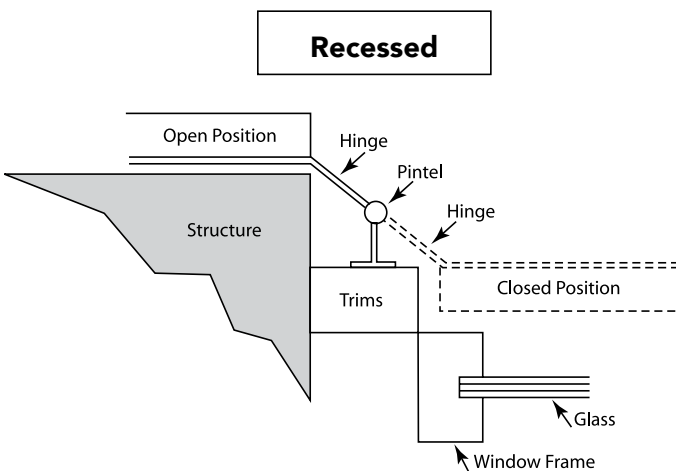
HINGE REQUIREMENTS

Shutter Height	12" to 48"	49" to 96"	97" to 108"
Hinge Requirement	2	3	4

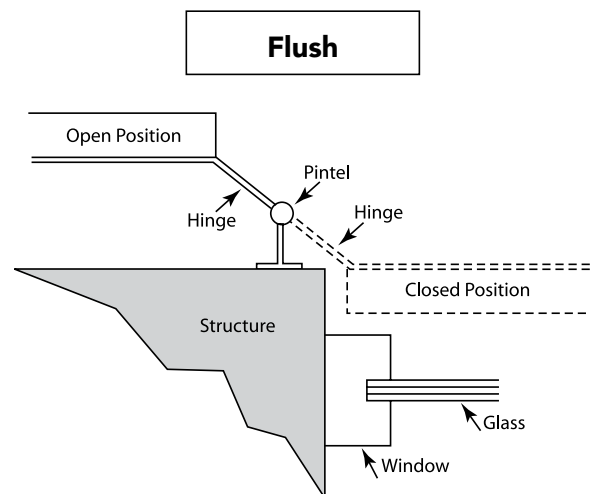
Projected



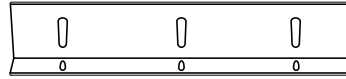
Recessed



Flush



FIXED MOUNTING HARDWARE

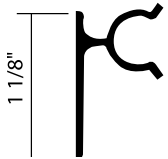


Fixed Mounting Bracket

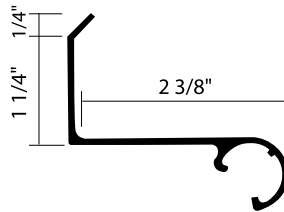
- Sold in 4-piece set
- Clear polycarbonate
- Sizes 9", 14", 18"
- 4" Side bracket included for shutters over 48" tall

BAHAMA HARDWARE

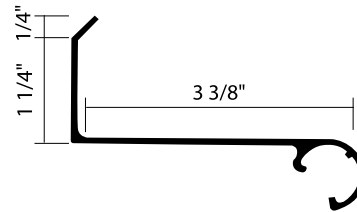
NOTE: Female hinge clearance is not factored into overall shutter height.



Male Hinge



2 - 3/8" Female Hinge



3 - 3/8" Female Hinge

TILT ARM COMPONENT PARTS

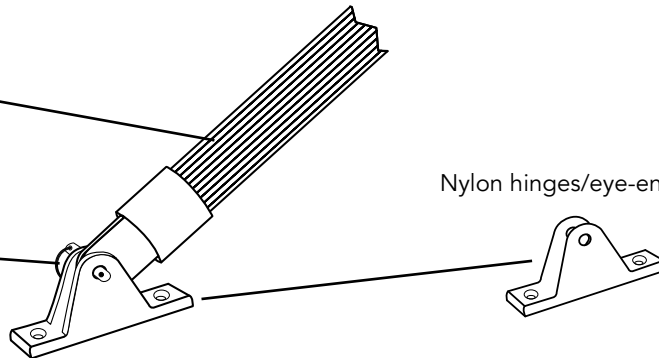
Aluminum tilt arms with nylon end caps



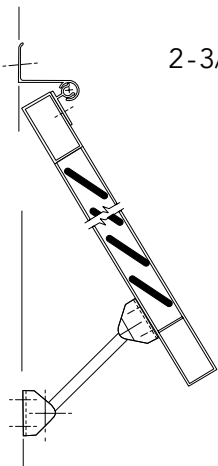
Stainless steel clevis pin



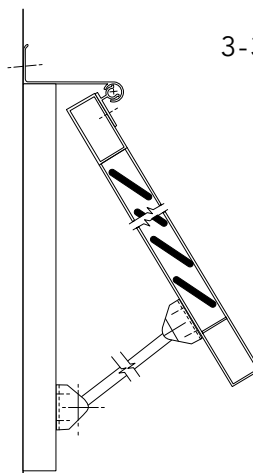
Nylon hinges/eye-end sets



Examples of Common Installation Options - Bahama Hardware



2-3/8" Female Hinge
Flush Mount



3-3/8" Female Hinge
Deep Set

IMPACT RESISTANT STORM SHUTTER HARDWARE & STORM BAR SYSTEMS

Inside Locking "U" Shaped Storm Bar System

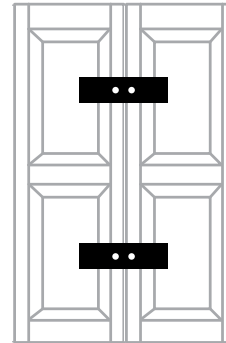
The Inside Locking "U" Shaped Storm Bar System meets the Large Missile Impact Test requirement as specified in the IRC and IBC 2006.

- Available for Architectural Collection Louver and Raised Panel shutters. Does not apply to arch and radius top shutters, cutouts, combination, bi-folds, flat-panel, or v-groove.
- Shutters can be ordered in 1/8" increments to a maximum size of 30" width and 96" length per shutter leaf.
- Each shutter leaf has a clear (1/8" thick) polycarbonate panel fastened to the back.

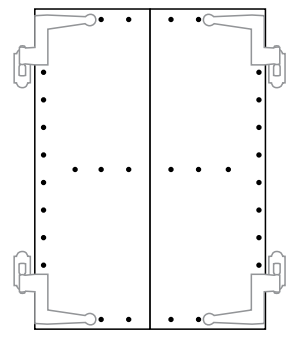
If shutter is over 46 inches, 2 Inside Locking "U" Shaped Storm Bars are required per shutter pair.

- Storm bar length 6", height 2", thickness 1/8", projection 1"
- Storm bars require installation by the shutter installer.
- Bolts and wing nuts are provided.

If Shutter is under 46 inches, it only requires 1 Inside locking "U" Shaped Storm Bar.



"U" Shaped Storm Bar



Polycarbonate Panel

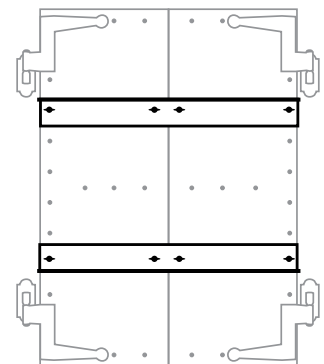
Horizontal Storm Bar System

Can be ordered in 1/8" increments to a maximum size of 60" w x 96" h window opening (shutter width of 30").

If shutter is over 46 inches, 2 Horizontal Storm Bars required per shutter pair.

- Storm bar length needs to match the total width of the shutter pair.
- Storm bars require installation by shutter installer.
- Bolts and wing nuts are provided.

If shutter is under 46 inches, it only requires 1 Horizontal Storm Bar.



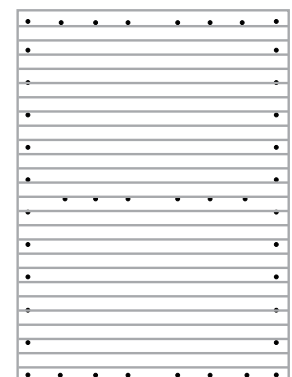
Horizontal Storm Bar

Bahama Storm System


The Bahama Storm System meets the State of Florida Building Code 2010.

- Architectural Collection Bahama style shutter.
- Shutters can be ordered in 1/8" width and 1-1/2" height increments to a maximum of 60" w x 103" h.
- Each shutter has a clear (1/8" thick) polycarbonate panel fastened to the back.

A camelback locking system is installed along the sides of the shutter, provided at no charge.



Bahama





Old Carolina[®] Brick Co.

TRADITIONAL PRODUCT REPORTS WRITE-UP

The Art of Handmade Brick

Old Carolina Brick Company brings hand-molded brick back to the built environment.

For this large Georgian-style estate in Lexington, NC, the Tryon brick was used throughout – house, outbuildings and landscaping walls. Based on the burgundy-red brick used for the original Governor's Mansion at Tryon Palace in New Bern, NC, the line has been used for restoration projects in Colonial Williamsburg.

By Nicole V. Gagné

The American love affair with brick has been part of our history from the beginning. The ardor may have cooled with the advent of machine-made brick, but the current enthusiasm for handmade brick has brought passion and character back to this ubiquitous building material. One firm at the forefront of the handmade-brick revival is Old Carolina Brick Company of Salisbury, NC. Founded in 1968, the firm today boasts an impressive line crafted and fired with coal after the traditions of Colonial brick makers. Twelve basic color possibilities are offered; along with the classic brick shape, the firm also provides pavers, coping, edgers, postcaps and row locks...

[Click here to read the rest of the article at traditionalproductreports.com](#)

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ARCAT[®]