Plastic Exterior Shutters and Accessories

SECTION 10 71 13.13
&
SECTION 06475

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Exterior shutters.

B. Exterior shutter hardware.

C. Arch tops.

D. Transom tops.

1.2 RELATED SECTIONS

A. Section 09 90 00 - Painting and Coating.

1.3 SUBMITTALS

A. Submit under provisions of Section 01 30 00 - Administrative Requirements.

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 full range of available colors and patterns.

E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.

1.4 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, dry area in accordance with manufacturer's instructions.

D. Protect materials during handling and installation to prevent damage.

1.5 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.

1.6 WARRANTY

A. Provide with a Limited Lifetime warranty against cracking, splitting or fading.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: Royal Corinthian which is located at: 603 Fenton Lane, West Chicago, IL 60185; Toll Free Tel: 888-265-8661; Fax: 888-344-2937 Email:royalcor@royalcorinthian.com; Web:royalcorinthian.com

B. Substitutions: Not permitted.

C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

2.2 SHUTTERS

A. Standard Open Louver Shutters: Royal Corinthian Cathedral Open Louver Shutters fabricated of maintenance-free, UV-stabilized polypropylene copolymer with molded-through color
   1. Width:
      a. 12 inch (305 mm).
      b. 14-1/2 inch (368 mm).
   2. Length:
      a. 25 inch (635 mm).
      b. 31 inch (787 mm).
      c. 36 inch (914 mm).
      d. 39 inch (991 mm).
      e. 43 inch (1092 mm).
      f. 48 inch (1219 mm).
      g. 52 inch (1321 mm).
      h. 55 inch (1397 mm).
      i. 60 inch (1524 mm).
      j. 64 inch (1626 mm).
      k. 67 inch (1702 mm).
      l. 72 inch (1829 mm).

m. 75 inch (1905 mm).
n. 80 inch (2032 mm).

3. Colors:
   a. 001 White.
   b. 002 Black.
   c. 004 Wedgewood Blue.
   d. 008 Clay.
   e. 009 Federal Brown.
   f. 010 Musket Brown.
   g. 018 Tuxedo Gray.
   h. 023 Wicker.
   i. 027 Burgundy Red.
   j. 028 Forest Green.
   k. 036 Classic Blue.
   l. 078 Wineberry.
   m. 117 Bright White.
   n. 122 Midnight Green.
   o. 166 Midnight Blue.
   p. 167 Bordeaux.
   q. 030 Paintable
   r..

B. Standard Raised Panel Shutters: Royal Corinthian Raised Panel Master Shutters fabricated of maintenance-free, UV-stabilized polypropylene copolymer with molded-through color

1. Width:
   a. 12 inch (305 mm).
   b. 14-3/4 inch (374 mm).
2. Length:
   a. 31 inch (787 mm).
   b. 35 inch (889 mm).
   c. 39 inch (991 mm).
   d. 43 inch (1092 mm).
   e. 47 inch (1194 mm).
   f. 51 inch (1295 mm).
   g. 55 inch (1397 mm).
   h. 59 inch (1499 mm).
   i. 63 inch (1600 mm).
   j. 67 inch (1702 mm).
   k. 67 inch (1702 mm) Cottage Style.
   l. 71 inch (1803 mm).
   m. 75 inch (1905 mm).
   n. 80 inch (2032 mm).
3. Colors:
   a. 001 White.
   b. 002 Black.
   c. 004 Wedgewood Blue.
   d. 008 Clay.
   e. 009 Federal Brown.
   f. 010 Musket Brown.
   g. 018 Tuxedo Gray.
   h. 023 Wicker.
   i. 027 Burgundy Red.
   j. 028 Forest Green.
   k. 036 Classic Blue.
   l. 078 Wineberry.

m. 117 Bright White.
n. 122 Midnight Green.
o. 166 Midnight Blue.
p. 167 Bordeaux.
q. 030 Paintable.

C. Standard Board-N-Batten Shutters: Royal Corinthian Board-N-Batten Shutters fabricated of maintenance-free, UV-stabilized polypropylene copolymer with molded-through color.

1. Width:
   a. 12 inch (305 mm) three-board spaced.
   b. 14 inch (356 mm) four-board joined.
   c. 14 inch (356 mm) Four Board Joined with Arch Top
2. Length:
   a. 31 inch (787 mm).
   b. 35 inch (889 mm).
   c. 39 inch (991 mm).
   d. 43 inch (1092 mm).
   e. 45 inch (1143 mm) Four Board Joined with Arch Top only.
   f. 47 inch (1194 mm).
   g. 49 inch (1245 mm) Four Board Joined with Arch Top only.
   h. 51 inch (1295 mm).
   i. 53 inch (1346 mm) Four Board Joined with Arch Top only.
   j. 55 inch (1397 mm).
   k. 57 inch (1448 mm) Four Board Joined with Arch Top only.
   l. 59 inch (1499 mm).
   m. 61 inch (1549 mm) Four Board Joined with Arch Top only.
   n. 63 inch (1600 mm).
   o. 65 inch (1651 mm) Four Board Joined with Arch Top only.
   p. 67 inch (1702 mm).
   q. 69 inch (1753 mm) Four Board Joined with Arch Top only.
   r. 71 inch (1803 mm).
   s. 73 inch (1854 mm) Four Board Joined with Arch Top only.
   t. 75 inch (1905 mm).
   u. 77 inch (1956 mm) Four Board Joined with Arch Top only.
   v. 80 inch (2032 mm).
   w. 81 inch (2057 mm) Four Board Joined with Arch Top only.
   x. 85 inch (2159 mm) Four Board Joined with Arch Top only.
   y. 89 inch (2261 mm) Four Board Joined with Arch Top only.
   z. 94 inch (2388 mm) Four Board Joined with Arch Top only.
3. Colors:
   a. 001 White.
   b. 002 Black.
   c. 004 Wedgewood Blue.
   d. 008 Clay.
   e. 009 Federal Brown.
   f. 010 Musket Brown.
   g. 018 Tuxedo Gray.
   h. 023 Wicker.
   i. 027 Burgundy Red.
   j. 028 Forest Green.
   k. 036 Classic Blue.
   l. 078 Wineberry.
   m. 117 Bright White.
   n. 122 Midnight Green.
   o. 166 Midnight Blue.

p. 167 Bordeaux.
q. 030 Paintable.

D. Specialty Louver Shutters: Royal Corinthian Specialty Louver Shutters fabricated of maintenance-free, UV-stabilized polypropylene copolymer with molded-through color
1. Custom Styles:
a. L1 Cathedral Top Center Mullion.
b. L2 Straight Top Center Mullion.
c. L3 Cathedral Top Offset Mullion.
d. L4 Straight Top Offset Mullion.
e. L5 Cathedral Top All Louver.
f. L6 Straight Top All Louver.
2. Width:
a. 9-1/4 inch (235 mm).
b. 11 inch (279 mm).
c. 12 inch (305 mm).
d. 14-1/2 inch (368 mm).
e. 16-1/2 inch (419 mm).
f. 18 inch (457 mm).
g. L2: _____ inches (_____ mm).
h. L3: _____ inches (_____ mm).
i. L4: _____ inches (_____ mm).
j. L5: _____ inches (_____ mm).
k. L6: _____ inches (_____ mm).
3. Colors:
a. 001 White.
b. 002 Black.
c. 004 Wedgewood Blue.
d. 008 Clay.
e. 009 Federal Brown.
f. 010 Musket Brown.
g. 018 Tuxedo Gray.
h. 023 Wicker.
i. 027 Burgundy Red.
j. 028 Forest Green.
k. 036 Classic Blue.
l. 078 Wineberry.
m. 117 Bright White.
n. 122 Midnight Green.
o. 166 Midnight Blue.
p. 167 Bordeaux.
q. 030 Paintable

E. Specialty Raised Panel Shutters: Royal Corinthian Specialty Raised Panel Shutters fabricated of maintenance-free, UV-stabilized polypropylene copolymer with molded-through color
1. Custom Styles:
a. P1, One Panel.
b. P2, 2 Panels Equal.
c. P3, 2 Panels Unequal.
d. P4, 3 Panels Equal.
e. P5, 3 Panels, Small Center.
f. P6, 3 Panels Small Top.
2. Width:
a. 9-1/4 inch (235 mm).
b. 12 inch (305 mm).

c. 14-1/2 inch (368 mm).
d. 16-1/2 inch (419 mm).
e. 18 inch (457 mm).

3. Length:
   a. P1: _____ inches (_____ mm).
   b. P2: _____ inches (_____ mm).
   c. P3: _____ inches (_____ mm).
   d. P4: _____ inches (_____ mm).
   e. P5: _____ inches (_____ mm).
   f. P6: _____ inches (_____ mm).
4. Colors:
   a. 001 White.
   b. 002 Black.
   c. 004 Wedgewood Blue.
   d. 008 Clay.
   e. 009 Federal Brown.
   f. 010 Musket Brown.
   g. 018 Tuxedo Gray.
   h. 023 Wicker.
   i. 027 Burgundy Red.
   j. 028 Forest Green.
   k. 036 Classic Blue.
   l. 078 Wineberry.
   m. 117 Bright White.
   n. 122 Midnight Green.
   o. 166 Midnight Blue.
   p. 167 Bordeaux.
   q. 030 Paintable.

F. Specialty Louver-Panel Combination Shutters: Royal Corinthian Specialty Louver-Panel Shutters fabricated of maintenance-free, UV-stabilized polypropylene copolymer with molded-through color
   1. Custom Styles:
      a. LP1, Upper Louver/Lower Panel, Cathedral Top.
      b. LP2, Upper Louver/Lower Panel, Straight Top.
   2. Width:
      a. 9-1/4 inch (235 mm).
      b. 12 inch (305 mm).
      c. 14-1/2 inch (368 mm).
      d. 16-1/2 inch (419 mm).
      e. 18 inch (457 mm).
   3. Length:
      a. _____ inches (_____ mm).
   4. Colors:
      a. 001 White.
      b. 002 Black.
      c. 004 Wedgewood Blue.
      d. 008 Clay.
      e. 009 Federal Brown.
      f. 010 Musket Brown.
      g. 016 Light Gray.
      h. 018 Tuxedo Gray.
      i. 023 Wicker.
      j. 027 Burgundy Red.
      k. 028 Forest Green.
      l. 036 Classic Blue.

m. 078 Wineberry.
n. 117 Bright White.
o. 122 Midnight Green.
p. 166 Midnight Blue.
q. 167 Bordeaux.
r. 030 Paintable.

G. Specialty Board-N-Batten Shutters: Royal Corinthian Specialty Board-N-Batten Shutters fabricated of maintenance-free, UV-stabilized polypropylene copolymer with molded-through color
1. Custom Styles:
a. Joined J2, 7 inch Two Board.
b. Joined J3, 10-1/2 inch Three Board.
c. Joined J4, 14 inch Four Board.
d. Joined J4-A, 14 inch Four Board Joined with Arch Top.
e. Joined J5, 17-1/2 inch Five Board.
f. Spaced S2, 7-3/4 inch Two Board.
g. Spaced S3, 12 inch Three Board.
h. Spaced S4, 16-1/2 inch Four Board.
i. Spaced S5, 20-1/2 inch Five Board.
2. Width:
a. 7 inch (178 mm).
b. 10-1/2 inch (267 mm).
c. 14 inch (356 mm).
d. 14 inch (356 mm). Four Board Joined with Arch Top.
e. 17-1/2 inch (445 mm).
f. 7-3/4 inch (197 mm).
g. 12 inch (305 mm).
h. 16-1/2 inch (419 mm).
i. 20-1/2 inch (521 mm).
3. Length:
a. _____ inches (_____ mm).
b. J4-A: _____ inches (_____ mm).
4. Colors:
a. 001 White.
b. 002 Black.
c. 004 Wedgewood Blue.
d. 008 Clay.
e. 009 Federal Brown.
f. 010 Musket Brown.
g. 018 Tuxedo Gray.
h. 023 Wicker.
i. 027 Burgundy Red.
j. 028 Forest Green.
k. 036 Classic Blue.
l. 078 Wineberry.
m. 117 Bright White.
n. 122 Midnight Green.
o. 166 Midnight Blue.
p. 167 Bordeaux.
q. 030 Paintable.

2.3 Shutter Accessories

A. Quarter Round Arch Tops.:
1. Styles Available:

a. Raised Panel, 14-3/4 inch (375 mm) in width.
b. Raised Panel, 12 inches (305 mm) in width.
c. Open Louver, 14-1/2 inches (368 mm) in width, by 17 inches (432 mm) in height.
d. Solid, 14-1/2 inches (368 mm) in width.

2. Colors:
a. 001 White.
b. 002 Black.
c. 004 Wedgewood Blue.
d. 008 Clay.
e. 009 Federal Brown.
f. 010 Musket Brown.
g. 018 Tuxedo Gray.
h. 023 Wicker.
i. 027 Burgundy Red.
j. 028 Forest Green.
k. 036 Classic Blue.
l. 078 Wineberry.
m. 117 Bright White.
n. 122 Midnight Green.
o. 166 Midnight Blue.
p. 167 Bordeaux.
q. 030 Paintable.

B. Transom Top Add-On.:
1. Styles Available:
a. Raised Panel, 14-3/4 inches (375 mm) in width, by 11-3/4 inch (298 mm) high.

2. Colors:
a. 001 White.
b. 002 Black.
c. 004 Wedgewood Blue.
d. 008 Clay.
e. 009 Federal Brown.
f. 010 Musket Brown.
g. 018 Tuxedo Gray.
h. 023 Wicker.
i. 027 Burgundy Red.
j. 028 Forest Green.
k. 036 Classic Blue.
l. 078 Wineberry.
m. 117 Bright White.
n. 122 Midnight Green.
o. 166 Midnight Blue.
p. 167 Bordeaux.
q. 030 Paintable.

C. Elliptical Add-On:
1. Styles Available:
a. Raised Panel, 14-3/4 inches (375 mm) in width, by 6 inches (152 mm) in height.

2. Colors:
a. 001 White.
b. 002 Black.
c. 004 Wedgewood Blue.
d. 008 Clay.

e. 009 Federal Brown.
f. 010 Musket Brown.
g. 018 Tuxedo Gray.
h. 023 Wicker.
i. 027 Burgundy Red.
j. 028 Forest Green.
k. 036 Classic Blue.
l. 078 Wineberry.
m. 117 Bright White.
n. 122 Midnight Green.
o. 166 Midnight Blue.
p. 167 Bordeaux.
q. 030 Paintable.

D. Fasteners:
1. Shutter-Lok fasteners, 3 inches (76 mm) long, color coordinated to match adjacent shutter. Suitable for any surface.
2. Painted Screws, 3 inches (76 mm) long, color coordinate to match adjacent shutter.

E. Decorative Hinges and S-Hooks.:
1. Flat Hinge: With a matte black finish.
2. S Hook: With a matte black finish.

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 surface 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.

B. Paint in accordance with manufacturer's recommended instructions. Contact manufacturer for recommended paint and shutter surface preparation.

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