

WorthingtonWrap PVC Columns

Architectural Specifications

1.1 SECTION INCLUDES

- A. Columns: Worthington Millwork; Cellular Polyvinyl Chloride (PVC) columns; decorative, weatherproof, insect-proof, and highly durable.
- B. Decorative Capitals and Bases: To fit over shaft through center of capital and base.
- C. Materials for column installation.

1.2 RELATED SECTIONS

- A. Section 06100 - Rough Carpentry: Wood framing.
- B. Section 06441 - Architectural Wood Columns.

1.3 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. 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.
- A. Shop Drawings: For custom products, show dimensions, configuration, and anchorages.
- B. Selection Samples: Color photographs representing manufacturer's full range of available materials and styles.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

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. At project closeout, provide to Owner or Owners Representative a copy of the manufacturer's limited warranty outlining its terms and conditions.
 - 1. Duration: Twenty Five (25) years.
- B. Free from defects in material and workmanship for " Twenty Five (25) years " of ownership. Installation must be per manufacturer's guidelines. " Twenty Five (25) years " means as long

as purchaser of column owns the structure to which column is attached for up to Twenty Five (25) years from the date of purchase".

C. Free from defects in material and workmanship for " Twenty Five (25) years " of ownership. Installation must be per manufacturer's guidelines.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Worthington Millwork, LLC.
2405 Ruth Hentz Ave.
Panama City, FL 32405
800-872-1608/F.850-640-0488
Email: sales@worthingtonmillwork.com
Web: www.worthingtonmillwork.com

B. Substitutions: Not permitted.

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

2.2 DECORATIVE COLUMNS

A. WorthingtonWrap Column – Plain - Standard Sizes:

1. Height: 6 feet (1829 mm).
2. Height: 8 feet (2438 mm).
3. Height: 9 feet (2743 mm).
4. Height: 10 feet (3048 mm).
5. Height: 12 feet (3658 mm).
6. Size: 6 inches (152 mm) square.
7. Size: 8 inches (203 mm) square.
8. Size: 10 inches (254 mm) square.
9. Size: 12 inches (305 mm) square.
10. Panel Thickness: 3/8 inch (10mm).
11. Panel Thickness: 5/8 inch (16mm).
12. Assembly Type: Assembled.
13. Assembly Type: "L"-Assembly.

B. WorthingtonWrap Column – With Decorative Machining – Standard Sizes:

1. Height: 6 feet (1829 mm).
2. Height: 8 feet (2438 mm).
3. Height: 9 feet (2743 mm).
4. Height: 10 feet (3048 mm).
5. Height: 12 feet (3658 mm).
6. Size: 6 inches (152 mm) square.
7. Size: 8 inches (203 mm) square.
8. Size: 10 inches (254 mm) square.
9. Size: 12 inches (305 mm) square.
10. Panel Thickness: 5/8 inch (16mm).
11. Decorative Machining: Fluted.
 - a. Flutes per side: 3.
 - b. Flutes per side: 5.
 - c. Flutes per side: 7.
 - d. Flutes per side: 8.
12. Decorative Machining: Recessed Panel.

13. Decorative Machining: Raised Panel.
14. Assembly Type: Assembled.
15. Assembly Type: "L"-Assembly.

C. WorthingtonWrap Column – Craftsman – Standard Sizes:

1. Height: 54 inches (1371 mm).
2. Height: 60 inches (1524 mm).
3. Height: 66 inches (1676 mm).
4. Height: 72 inches (1829 mm).
5. Height: 96 inches (2438 mm).
6. Size: 12 inches (305 mm) by 8 inches (203 mm).
7. Size: 16 inches (406 mm) by 10 inches (254 mm).
8. Size: 20 inches (508 mm) by 15 inches (381 mm).
9. Panel Thickness: 5/8 inch (16mm).
10. Decorative Machining: Recessed Panel.
11. Decorative Machining: Raised Panel.
12. Assembly Type: Assembled.
13. Assembly Type: "L"-Assembly.

D. WorthingtonWrap Column - Pedestal/Newel – Standard Sizes:

1. Height: 40 inches (1016mm).
2. Height: 46 inches (1168mm).
3. Size: 16 inches (406 mm) square.
4. Size: 20 inches (508 mm) square.
5. Size: 24 inches (610 mm) square.
6. Panel Thickness: 5/8 inch (16mm).
7. Decorative Machining: Recessed Panel.
8. Decorative Machining: Raised Panel.
9. Assembly Type: Assembled.
10. Assembly Type: "L"-Assembly.

E. WorthingtonWrap Column – Plain - Custom Sizes:

1. Height: Minimum - 1 foot (305 mm).
2. Height: Maximum - 18 feet (5486 mm).
3. Size: Minimum: 5 inches (127mm) square.
4. Size: Maximum: 48 inches (1219 mm) square.
5. Panel Thickness: 3/8 inch (10mm).
6. Panel Thickness: 1/2 inch (13mm)
7. Panel Thickness: 5/8 inch (16mm).
8. Panel Thickness: 3/4 inch (19mm)
9. Panel Thickness: 1 inch (25mm)
10. Configuration – Plan Type: Square
11. Configuration – Plan Type: Rectangle
12. Configuration – Plan Type: Pilaster – Flat
13. Configuration – Plan Type: Pilaster with Returns
14. Configuration – Plan Type: Outside corner (adjacent sides) – Flat
15. Configuration – Plan Type: Outside corner (adjacent sides) – with Returns
16. Configuration – Plan Type: U-Shape with Returns
17. Assembly Type: Assembled.
18. Assembly Type: "L"-Assembly.

F. WorthingtonWrap Column – With Decorative Machining – Custom Sizes:

1. Height: Minimum - 1 foot (305 mm).
2. Height: Maximum - 18 feet (5486 mm).
3. Size: Minimum: 5 inches (127mm) square.
4. Size: Maximum: 48 inches (1219 mm) square.

5. Panel Thickness: 3/8 inch (10mm).
6. Panel Thickness: 1/2 inch (13mm)
7. Panel Thickness: 5/8 inch (16mm).
8. Panel Thickness: 3/4 inch (19mm)
9. Panel Thickness: 1 inch (25mm)
10. Configuration – Plan Type: Square
11. Configuration – Plan Type: Rectangle
12. Configuration – Plan Type: Pilaster – Flat
13. Configuration – Plan Type: Pilaster with Returns
14. Configuration – Plan Type: Outside corner (adjacent sides) – Flat
15. Configuration – Plan Type: Outside corner (adjacent sides) – with Returns
16. Configuration – Plan Type: U-Shape with Returns
17. Decorative Machining: Fluted.
 - a. Flutes per side: Variable.
18. Decorative Machining: Recessed Panel.
19. Decorative Machining: Raised Panel.
20. Assembly Type: Assembled.
21. Assembly Type: “L”-Assembly.

G. WorthingtonWrap Column – Craftsman – Custom Sizes:

1. Height: Minimum - 1 foot (305 mm).
2. Height: Maximum - 18 feet (5486 mm).
3. Size: Minimum – Bottom of Shaft - 5 inches (127 mm)
4. Size: Maximum – Bottom of Shaft – 48 inches (1219 mm)
5. Size: Minimum – Top of Shaft - 5 inches (127 mm)
6. Size: Maximum – Top of Shaft – 48 inches (1219 mm)
7. Panel Thickness: 3/8 inch (10mm).
8. Panel Thickness: 1/2 inch (13mm)
9. Panel Thickness: 5/8 inch (16mm).
10. Panel Thickness: 3/4 inch (19mm)
11. Panel Thickness: 1 inch (25mm)
12. Configuration – Plan Type: Square
13. Configuration – Plan Type: Rectangle
14. Configuration – Plan Type: Pilaster – Flat
15. Configuration – Plan Type: Pilaster with Returns
16. Configuration – Plan Type: Outside corner (adjacent sides) – Flat
17. Configuration – Plan Type: Outside corner (adjacent sides) – with Returns
18. Configuration – Plan Type: U-Shape with Returns
19. Decorative Machining: Fluted.
20. Decorative Machining: Recessed Panel.
21. Decorative Machining: Raised Panel.
22. Assembly Type: Assembled.
23. Assembly Type: “L”-Assembly.

H. WorthingtonWrap Column - Pedestal/Newel – Standard Sizes:

1. Height: Minimum - 1 foot (305 mm).
2. Height: Maximum - 18 feet (5486 mm).
3. Size: Minimum: 5 inches (127mm) square.
4. Size: Maximum: 48 inches (1219 mm) square.
5. Panel Thickness: 3/8 inch (10mm).
6. Panel Thickness: 1/2 inch (13mm)
7. Panel Thickness: 5/8 inch (16mm).
8. Panel Thickness: 3/4 inch (19mm)
9. Panel Thickness: 1 inch (25mm)
10. Configuration – Plan Type: Square
11. Configuration – Plan Type: Rectangle

12. Configuration – Plan Type: Pilaster – Flat
13. Configuration – Plan Type: Pilaster with Returns
14. Configuration – Plan Type: Outside corner (adjacent sides) – Flat
15. Configuration – Plan Type: Outside corner (adjacent sides) – with Returns
16. Configuration – Plan Type: U-Shape with Returns
17. Decorative Machining: Fluted.
 - a. Flutes per side: Variable.
18. Decorative Machining: Recessed Panel.
19. Decorative Machining: Raised Panel.
20. Assembly Type: Assembled.
21. Assembly Type: “L”-Assembly.

I. Capitals and Bases:

1. Capital: Ogee Cap.
2. Capital: Style 1
3. Capital: Style 2
4. Capital: Style 3
5. Capital: Style 4
6. Capital: Style 5
7. Capital: Style 6
8. Capital: Style 7
9. Capital: Style 8 Tuscan
 - a. 6 inches (152 mm) square
 - b. 8 inches (203 mm) square.
 - c. 10 inches (254 mm) square.
 - d. 12 inches (305 mm) square.
 - e. 14 inches (356 mm) square.
 - f. 16 inches (406 mm) square.
10. Capital: Style 9
11. Capital: Style 10
12. Capital: Style 11
13. Bases: Tuscan.
14. Bases: Ogee.
15. Bases: Style 1
16. Bases: Style 2
17. Bases: Style 3
18. Bases: Style 4
19. Bases: Style 5
20. Bases: Style 6
21. Bases: Style 7
22. Bases: Style 8 Tuscan
 - a. 6 inches (152 mm) square
 - b. 8 inches (203 mm) square.
 - c. 10 inches (254 mm) square.
 - d. 12 inches (305 mm) square.
 - e. 14 inches (356 mm) square.
 - f. 16 inches (406 mm) square.
23. Bases: Style 9
24. Bases: Style 10
25. Bases: Style 11

2.3 ACCESSORY MATERIALS

- A. Adhesive Caulk: Acrylic Urethane water based exterior grade.
 1. Use along entire length of open miter joints during installation.
 2. Use to caulk cap and base prior to shaft of column.

3. Use to cover holes of nails or screws in molding for square columns.

B. Mounting Accessories:

1. Bottom PVC internal squaring/mounting blocks.
2. Top PVC internal squaring/mounting blocks.
3. Anchor Fasteners: Concrete anchors.
4. Anchor Fasteners: Hollow wall anchors.
5. Cap and Base Fasteners: Screws.
6. Cap and Base Fasteners: Nails.
7. Molding Fasteners: Screws.
8. Molding Fasteners: Finishing nails.
9. Column Shaft assembly fasteners: Galvanized finishing nails.
10. Column Shaft assembly fasteners: Stainless Steel finishing nails.
11. Column Shaft assembly fasteners: 1/4" narrow crown galvanized finishing staples.
12. Column Shaft assembly fasteners: 1/4" narrow crown stainless steel finishing staples.

2.4 FINISH

A. Primer:

1. Acrylic Based Primer: One light, even coat of top quality exterior acrylic primer.
2. Oil Based Primer: One light, even coat of top quality exterior oil-based primer.

B. Finish Coat:

1. Latex Based Finish: Three light, even coats of high quality exterior 100% acrylic or acrylic latex paint.

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. Check opening height before ordering columns.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation with alcohol or ammonia based cleaning solution.
- B. Do not use paint thinner, turpentine, or mineral spirits to prepare surface because of the residue that will remain. This residue will prevent proper paint adhesion.
- C. Do not use MEK, lacquer thinner, acetone, or any other MEK based solvent to prepare surface. MEK based products will cause PVC to dissolve.
- D. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- E. If attaching handrails or corner iron to column, install solid pressure treated wooden blocking between the inside face of the column and the structural post to receive handrail mounting screws.

3.3 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Plumb and level column shaft. If column cannot be centered around structural post, modify internal squaring/mounting blocks with jig saw to allow column location as needed. If modification of furnished internal squaring/mounting blocks still does not permit desired positioning, installer may field fabricate blocking out of pressure treated lumber.

3.4 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION