

COLUMNS AND PORCH POSTS SPECIFICATIONS 06446

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Decorative round column shafts.
- B. Load bearing round column shafts encased in polyurethane.
- C. Polyurethane caps and bases for round column shafts.
- D. Decorative box column covers.
- E. Load bearing box columns encased in polyurethane.
- F. Load bearing porch posts encased in polyurethane.
- G. Lamp posts.

1.2 RELATED SECTIONS

- A. Section 06100 - Rough Carpentry.
- B. Section 06200 - Finish Carpentry.
- C. Section 06400 - Architectural Woodwork.
- D. Section 07900 - Joint Sealants.
- E. Section 09900 - Paints and Coatings.

1.3 REFERENCES

- A. American Society for Testing and Materials (ASTM):
 - 1. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Submit manufacturer's descriptive literature, specifications, installation instructions and limited warranty.
- C. Shop Drawings: Submit shop drawings showing location, profiles and product components, including but not limited to anchorage requirements, accessories, and provisions for achieving desired finishes.
- D. Selection Samples: For each product specified, two samples representing manufacturer's full range of available finishes and textures.
- E. Verification Samples: For each product specified, two samples, full size or minimum 12

inches (300 mm) square, representing actual product finishes and textures.

- F. Quality Assurance Submittals:
 - 1. Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties.
 - 2. Manufacturers Instructions: Manufacturer's installation instructions.
 - 3. Manufactures Field Reports: Manufacturer's field reports specified herein.
- G. Closeout Submittals: Submit manufacturer's standard warranty documents.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer shall have five years experience manufacturing and fabricating products of similar type and scope as those specified in this section.
- B. Installer Qualifications: Installer shall have five years experience installing products of similar type and scope as those specified in this section.
- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
 - 1. Finish areas designated by Architect.
 - 2. Do not proceed with remaining work until workmanship, finish are approved by Architect.
 - 3. Refinish mock-up area as required to produce acceptable work. Mock-up may be incorporated into finished work upon approval from Owner.
- D. Performance Requirements: Provide columns and porch posts which have been manufactured, fabricated and installed to maintain performance criteria stated by manufacturer without defects, damage, or failure.
- E. Fire Test Characteristics: Provide moulded units in compliance with ASTM E 84 for Class A or Class B requirements by UL or other testing and inspecting agency acceptable to authorities having jurisdiction.
- F. Preinstallation Meetings: Conduct a preinstallation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions and manufacturer's warranty requirements.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Ordering: Comply with manufacturer's instructions and lead time requirements to avoid construction delays.
- B. Delivery: Store products in manufacturer's labeled, unopened packaging until ready for installation and field finishing.
- C. Storage and Protection: Store materials protections from exposure to harmful weather conditions and within manufacturer's published limits for temperature and humidity.

1.7 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.
- B. Field Measurements: Verify actual measurements and openings by field measurements before fabrication. Show recorded measurements on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Spectis Moulders Inc., which is located at: 100 Cedar Dr. P. O. Box 970 ; Niverville, MB, Canada R0A 1E0; Toll Free Tel: 800-685-9981; Tel: 204-388-6700; Email: [request info \(contactus@spectis.com\)](mailto:request_info(contactus@spectis.com)); Web: www.spectis.com
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 DECORATIVE ROUND COLUMN SHAFTS

- A. Decorative Round Column Shafts: As manufactured by Spectis Moulders Inc.
 - 1. Material: Closed cell polyurethane.
 - a. Compressive Strength: 800-950 psi.
 - b. Tensile Strength: 550-650 psi.
 - c. Density: Skin density greater than core density, 14-18 pcf.
 - 2. Adhesive: PL premium adhesive must be used on all bedding/butt joints.
 - 3. Finish: Factory "double primed" with exterior grade latex pain, ready for installation and field finishing.
 - a. Field Finish Color: _____
 - 4. Model: As indicated on Drawings.
 - 5. Model: As selected by Architect.
 - 6. Model: CLM 100-100 Smooth Tapered with Neck Ring.
 - 7. Model: CLM 100-101 Smooth Tapered with Neck Ring.
 - 8. Model: CLM 100-102 Smooth Tapered with Neck Ring.
 - 9. Model: CLM 100-103 Smooth Tapered with Neck Ring.
 - 10. Model: CLM 100-105 Smooth Tapered with Neck Ring.
 - 11. Model: CLM 100-106 Smooth Tapered with Neck Ring.
 - 12. Model: CLM 100-107 Smooth Tapered with Neck Ring.
 - 13. Model: CLM 100-108 Smooth Tapered with Neck Ring.
 - 14. Model: CLM 100-109 Smooth Tapered with Neck Ring.
 - 15. Model: CLM 100-110 Smooth Tapered with Neck Ring.
 - 16. Model: CLM 100-111 Smooth Tapered with Neck Ring.
 - 17. Model: CLM 110-100 Smooth Tapered.
 - 18. Model: CLM 110-101 Smooth Tapered.
 - 19. Model: CLM 110-102 Smooth Tapered.
 - 20. Model: CLM 110-103 Smooth Tapered.
 - 21. Model: CLM 110-104FS Fossil Stone.
 - 22. Model: CLM 110-105FS Fossil Stone.
 - 23. Model: CLM 110-106FS Fossil Stone.
 - 24. Model: CLM 110-107 Smooth Tapered.
 - 25. Model: CLM 110-108 Smooth Tapered.
 - 26. Model: CLM 110-109 Smooth Tapered.
 - 27. Model: CLM 110-110 Smooth Tapered.
 - 28. Model: CLM 110-111 Smooth Tapered.
 - 29. Model: CLM 110-112 Smooth Tapered.
 - 30. Model: CLM 110-113 Smooth Tapered.
 - 31. Model: CLM 120-100 Smooth Entasis with Neck Ring.
 - 32. Model: CLM 120-101 Smooth Entasis with Neck Ring.
 - 33. Model: CLM 200-100 Fluted Tapered.
 - 34. Model: CLM 200-101 Fluted Tapered.
 - 35. Model: CLM 200-102 Fluted Tapered.
 - 36. Model: CLM 200-103 Fluted Tapered.
 - 37. Model: CLM 200-104 Fluted Tapered.
 - 38. Model: CLM 200-105 Fluted Tapered.
 - 39. Model: CLM 200-106 Fluted Tapered.

40. Model: CLM 200-114 Fluted Tapered.
41. Model: CLM 220-100 Fluted Entasis.
42. Model: CLM 220-101 Fluted Entasis.
43. Model: CLM 230-100 Fluted Straight.
44. Model: CLM 300-100 Smooth Straight.
 - a. Shaft Height: As indicated on Drawings.
 - b. Shaft Height: As selected by Architect.
 - c. Shaft Height: 96 inches (2438 mm).
 - d. Shaft Height: 120 inches (3048 mm).
 - e. Shaft Height: 144 inches (3658 mm).
45. Model: CLM 300-100FS Fossil Stone.
 - a. Shaft Height: As indicated on Drawings.
 - b. Shaft Height: As selected by Architect.
 - c. Shaft Height: 96 inches (2438 mm).
 - d. Shaft Height: 120 inches (3048 mm).
 - e. Shaft Height: 144 inches (3658 mm).
46. Model: CLM 300-101 Smooth Straight.
 - a. Shaft Height: As indicated on Drawings.
 - b. Shaft Height: As selected by Architect.
 - c. Shaft Height: 96 inches (2438 mm).
 - d. Shaft Height: 120 inches (3048 mm).
 - e. Shaft Height: 144 inches (3658 mm).
47. Model: CLM 300-102 Smooth Straight.
 - a. Shaft Height: As indicated on Drawings.
 - b. Shaft Height: As selected by Architect.
 - c. Shaft Height: 96 inches (2438 mm).
 - d. Shaft Height: 120 inches (3048 mm).
 - e. Shaft Height: 144 inches (3658 mm).
48. Model: CLM 300-103 Smooth Straight.
 - a. Shaft Height: As indicated on Drawings.
 - b. Shaft Height: As selected by Architect.
 - c. Shaft Height: 96 inches (2438 mm).
 - d. Shaft Height: 120 inches (3048 mm).
 - e. Shaft Height: 144 inches (3658 mm).
49. Model: CLM 300-104 Smooth Straight.
 - a. Shaft Height: As indicated on Drawings.
 - b. Shaft Height: As selected by Architect.
 - c. Shaft Height: 96 inches (2438 mm).
 - d. Shaft Height: 120 inches (3048 mm).
 - e. Shaft Height: 144 inches (3658 mm).
50. Model: CLM 300-106 Smooth Straight.
51. Model: CLM 400-100 Rope.
52. Model: CLM 400-101 Rope.
53. Model: CLM 400-102 Rope.

2.3 LOAD BEARING ROUND COLUMN SHAFTS ENCASED IN POLYURETHANE

- A. Load Bearing Round Column Shafts Encased in Polyurethane: As manufactured by Spectis Moulders Inc.
 1. Construction: 4-1/2 inch (114 mm) OD galvanized steel pipe encased in moulded polyurethane.
 2. Material: Closed cell polyurethane.
 - a. Compressive Strength: 800-950 psi.
 - b. Tensile Strength: 550-650 psi.
 - c. Density: Skin density greater than core density, 14-18 pcf.
 3. Adhesive: PL premium adhesive must be used on all bedding/butt joints.
 4. Maximum Safe Load: 10,000 pounds.
 5. Hardware: Hardware kit included.
 6. Finish: Factory "double primed" with exterior grade latex pain, ready for

- installation and field finishing.
- a. Field Finish Color: _____
7. Model: As indicated on Drawings.
 8. Model: As selected by Architect.
 9. Model: CLM 100-100 Smooth Tapered with Neck Ring.
 10. Model: CLM 100-101 Smooth Tapered with Neck Ring.
 11. Model: CLM 100-102 Smooth Tapered with Neck Ring.
 12. Model: CLM 100-103 Smooth Tapered with Neck Ring.
 13. Model: CLM 100-105 Smooth Tapered with Neck Ring.
 14. Model: CLM 100-106 Smooth Tapered with Neck Ring.
 15. Model: CLM 100-107 Smooth Tapered with Neck Ring.
 16. Model: CLM 100-108 Smooth Tapered with Neck Ring.
 17. Model: CLM 100-109 Smooth Tapered with Neck Ring.
 18. Model: CLM 100-110 Smooth Tapered with Neck Ring.
 19. Model: CLM 100-111 Smooth Tapered with Neck Ring.
 20. Model: CLM 110-100 Smooth Tapered.
 21. Model: CLM 110-101 Smooth Tapered.
 22. Model: CLM 110-102 Smooth Tapered.
 23. Model: CLM 110-103 Smooth Tapered.
 24. Model: CLM 110-104FS Fossil Stone.
 25. Model: CLM 110-105FS Fossil Stone.
 26. Model: CLM 110-106FS Fossil Stone.
 27. Model: CLM 110-107 Smooth Tapered.
 28. Model: CLM 110-108 Smooth Tapered.
 29. Model: CLM 110-109 Smooth Tapered.
 30. Model: CLM 110-110 Smooth Tapered.
 31. Model: CLM 110-111 Smooth Tapered.
 32. Model: CLM 110-112 Smooth Tapered.
 33. Model: CLM 110-113 Smooth Tapered.
 34. Model: CLM 120-100 Smooth Entasis with Neck Ring.
 35. Model: CLM 120-101 Smooth Entasis with Neck Ring.
 36. Model: CLM 200-100 Fluted Tapered.
 37. Model: CLM 200-101 Fluted Tapered.
 38. Model: CLM 200-102 Fluted Tapered.
 39. Model: CLM 200-103 Fluted Tapered.
 40. Model: CLM 200-104 Fluted Tapered.
 41. Model: CLM 200-105 Fluted Tapered.
 42. Model: CLM 200-106 Fluted Tapered.
 43. Model: CLM 200-114 Fluted Tapered.
 44. Model: CLM 220-100 Fluted Entasis.
 45. Model: CLM 220-101 Fluted Entasis.
 46. Model: CLM 230-100 Fluted Straight.
 47. Model: CLM 300-100 Smooth Straight.
 - a. Shaft Height: As indicated on Drawings.
 - b. Shaft Height: As selected by Architect.
 - c. Shaft Height: 96 inches (2438 mm).
 - d. Shaft Height: 120 inches (3048 mm).
 - e. Shaft Height: 144 inches (3658 mm).
 48. Model: CLM 300-100FS Fossil Stone.
 - a. Shaft Height: As indicated on Drawings.
 - b. Shaft Height: As selected by Architect.
 - c. Shaft Height: 96 inches (2438 mm).
 - d. Shaft Height: 120 inches (3048 mm).
 - e. Shaft Height: 144 inches (3658 mm).
 49. Model: CLM 300-101 Smooth Straight.
 - a. Shaft Height: As indicated on Drawings.
 - b. Shaft Height: As selected by Architect.
 - c. Shaft Height: 96 inches (2438 mm).
 - d. Shaft Height: 120 inches (3048 mm).

- e. Shaft Height: 144 inches (3658 mm).
- 50. Model: CLM 300-102 Smooth Straight.
 - a. Shaft Height: As indicated on Drawings.
 - b. Shaft Height: As selected by Architect.
 - c. Shaft Height: 96 inches (2438 mm).
 - d. Shaft Height: 120 inches (3048 mm).
 - e. Shaft Height: 144 inches (3658 mm).
- 51. Model: CLM 300-103 Smooth Straight.
 - a. Shaft Height: As indicated on Drawings.
 - b. Shaft Height: As selected by Architect.
 - c. Shaft Height: 96 inches (2438 mm).
 - d. Shaft Height: 120 inches (3048 mm).
 - e. Shaft Height: 144 inches (3658 mm).
- 52. Model: CLM 300-104 Smooth Straight.
 - a. Shaft Height: As indicated on Drawings.
 - b. Shaft Height: As selected by Architect.
 - c. Shaft Height: 96 inches (2438 mm).
 - d. Shaft Height: 120 inches (3048 mm).
 - e. Shaft Height: 144 inches (3658 mm).
- 53. Model: CLM 300-106 Smooth Straight.
- 54. Model: CLM 400-101 Rope.
- 55. Model: CLM 400-102 Rope.

2.4 POLYURETHANE CAPS AND BASES FOR ROUND COLUMN SHAFTS

- A. Polyurethane Caps and Bases for Round Column Shafts: As manufactured by Spectis Moulders Inc.
 - 1. Material: Closed cell polyurethane.
 - a. Compressive Strength: 800-950 psi.
 - b. Tensile Strength: 550-650 psi.
 - c. Density: Skin density greater than core density, 14-18 pcf.
 - 2. Adhesive: PL premium adhesive must be used on all bedding/butt joints.
 - 3. Finish: Factory "double primed" with exterior grade latex pain, ready for installation and field finishing.
 - a. Field Finish Color: _____
 - 4. Model: As indicated on Drawings.
 - 5. Model: As selected by Architect.
 - 6. Model: CB 100-109 Tuscan Base.
 - 7. Model: CB 100-111 Tuscan Base.
 - 8. Model: CB 100-112 Tuscan Cap/Base.
 - 9. Model: CB 100-138 Tuscan Cap.
 - 10. Model: CB 100-139 Tuscan Cap.
 - 11. Model: CB 100-143 Tuscan Base.
 - 12. Model: CB 100-144 Tuscan Cap.
 - 13. Model: CB 100-145 Tuscan Base.
 - 14. Model: CB 100-146 Tuscan Cap.
 - 15. Model: CB 100-147 Tuscan Base.
 - 16. Model: CB 100-148 Tuscan Cap.
 - 17. Model: CB 100-149 Tuscan Base.
 - 18. Model: CB 100-152 Tuscan Base.
 - 19. Model: CB 100-153 Tuscan Cap.
 - 20. Model: CB 100-154 Tuscan Cap.
 - 21. Model: CB 100-155 Tuscan Base.
 - 22. Model: CB 100-156 Tuscan Cap.
 - 23. Model: CB 100-157 Tuscan Base.
 - 24. Model: CB 100-158 Tuscan Base.
 - 25. Model: CB 100-159 Tuscan Cap.
 - 26. Model: CB 100-160 Tuscan Cap.
 - 27. Model: CB 100-160FS Tuscan Cap.

28. Model: CB 100-161 Tuscan Base.
29. Model: CB 100-161FS Tuscan Base.
30. Model: CB 100-162 Tuscan Cap.
31. Model: CB 100-162FS Tuscan Cap.
32. Model: CB 100-163 Tuscan Base.
33. Model: CB 100-163FS Tuscan Base.
34. Model: CB 100-170 Tuscan Cap.
35. Model: CB 100-185 Tuscan Cap.
36. Model: CB 100-203 Tuscan Cap.
37. Model: CB 100-218 Tuscan Base.
38. Model: CB 100-220 Tuscan Base.
39. Model: CB 100-222 Tuscan Base.
40. Model: CB 100-224 Tuscan Base.
41. Model: CB 100-225 Tuscan Cap.
42. Model: CB 100-227 Tuscan Base.
43. Model: CB 100-230 Tuscan Base.
44. Model: CB 200-108 Roman Doric Cap.
45. Model: CB 200-122 Roman Doric Cap.
46. Model: CB 200-123 Roman Doric Base.
47. Model: CB 200-124 Roman Doric Cap.
48. Model: CB 200-125 Roman Doric Base.
49. Model: CB 200-126 Roman Doric Cap.
50. Model: CB 200-127 Roman Doric Base.
51. Model: CB 200-128 Roman Doric Cap.
52. Model: CB 200-129 Roman Doric Base.
53. Model: CB 300-106 Standard Cap.
54. Model: CB 300-107 Standard Cap.
55. Model: CB 300-110 Standard Cap.
56. Model: CB 300-119 Standard Cap.
57. Model: CB 300-132 Standard Base.
58. Model: CB 300-133 Standard Cap.
59. Model: CB 300-134 Standard Cap.
60. Model: CB 300-135 Standard Base.
61. Model: CB 300-136 Standard Cap.
62. Model: CB 300-137 Standard Base.
63. Model: CB 400-101 Plain Cap/Base.
64. Model: CB 400-102 Plain Cap/Base.
65. Model: CB 400-103 Plain Cap/Base.
66. Model: CB 400-103CF Plain Cap/Base.
67. Model: CB 400-104 Plain Cap/Base.
68. Model: CB 400-104CF Plain Cap/Base.
69. Model: CB 400-105 Plain Cap/Base.
70. Model: CB 400-206 Plain Cap/Base.
71. Model: CB 500-134 Corinthian Cap.
72. Model: CB 500-135 Corinthian Cap.
73. Model: CB 500-142 Corinthian Cap.
74. Model: CB 500-143 Corinthian Cap.
75. Model: CB 500-183 Corinthian Cap.
76. Model: CB 500-200 Corinthian Cap.
77. Model: CB 500-201 Corinthian Cap.
78. Model: CB 500-202 Corinthian Cap.
79. Model: CB 600-118 Attic Base.
80. Model: CB 600-119 Attic Base.
81. Model: CB 600-120 Attic Base.
82. Model: CB 600-121 Attic Base.
83. Model: CB 600-189 Attic Base.
84. Model: CB 600-190 Attic Base.
85. Model: CB 600-191 Attic Base.
86. Model: CB 600-193 Attic Base.

87. Model: CB 700-136 Scamozzi Cap.
88. Model: CB 700-137 Scamozzi Cap.
89. Model: CB 700-138 Scamozzi Cap.
90. Model: CB 700-139 Scamozzi Cap.
91. Model: CB 700-140 Scamozzi Cap.
92. Model: CB 700-164 Scamozzi Cap.
93. Model: CB 700-165 Scamozzi Cap.
94. Model: CB 700-166 Scamozzi Cap.
95. Model: CB 700-205 Scamozzi Cap.
96. Model: CB 700-212 Scamozzi Cap.
97. Model: CB 700-214 Scamozzi Cap.
98. Model: CB 700-216 Scamozzi Cap.
99. Model: CB 800-100 Ionic Cap.
100. Model: CB 800-101 Ionic Cap.
101. Model: CB 800-102 Ionic Cap.
102. Model: CB 800-184 Ionic Cap.
103. Model: CB 800-231 Ionic Cap.
104. Model: CB 900-150 Rope Cap.
105. Model: CB 900-151 Rope Base.
106. Model: CB 900-168 Rope Cap.
107. Model: CB 900-169 Rope Base.

2.5 DECORATIVE BOX COLUMN COVERS

- A. Decorative Box Columns Covers: As manufactured by Spectis Moulders Inc.
 1. Material: Closed cell polyurethane.
 - a. Compressive Strength: 800-950 psi.
 - b. Tensile Strength: 550-650 psi.
 - c. Density: Skin density greater than core density, 14-18 pcf.
 2. Adhesive: PL premium adhesive must be used on all bedding/butt joints.
 3. Assembly: As indicated on Drawings.
 4. Assembly: As selected by Architect.
 5. Assembly: Shipped in two halves for field assembly with trim collars.
 6. Assembly: Factory assembled into one piece with trim collars.
 7. Finish: Factory "double primed" with exterior grade latex pain, ready for installation and field finishing.
 - a. Field Finish Color: _____
 8. Model: As indicated on Drawings.
 9. Model: As selected by Architect.
 10. Model: FBC 860 Fluted Box Column.
 11. Model: FBC 896 Fluted Box Column.
 12. Model: FBC 1060 Fluted Box Column.
 13. Model: FBC 1096 Fluted Box Column.
 14. Model: FBC 8120 Fluted Box Column.
 15. Model: FBC 10108 Fluted Box Column.
 16. Model: FBC 10116 Fluted Box Column.
 17. Model: FBC 10120 Fluted Box Column.
 18. Model: RBC 860 Recessed Box Column.
 19. Model: RBC 896 Recessed Box Column.
 20. Model: RBC 1096 Recessed Box Column.
 21. Model: RBC 10108 Recessed Box Column.
 22. Model: SBC 860 Smooth Box Column.
 23. Model: SBC 896 Smooth Box Column.
 24. Model: SBC 1060 Smooth Box Column.
 25. Model: SBC 1096 Smooth Box Column.
 26. Model: SBC 8120 Smooth Box Column.
 27. Model: SBC 8144 Smooth Box Column.
 28. Model: SBC 10120 Smooth Box Column.
 29. Model: SBC 10144 Smooth Box Column.

2.6 LOAD BEARING BOX COLUMNS ENCASED IN POLYURETHANE

- A. Load Bearing Box Columns Encased in Polyurethane: As manufactured by Spectis Moulders Inc.
1. Construction: Load bearing galvanized steel pipe encased in polyurethane
 - a. Load Bearing Column: As indicated on Drawings.
 - b. Load Bearing Column: As selected by Architect.
 - c. Load Bearing Column: 2-7/8 inches (73 mm) OD.
 - d. Load Bearing Column: 4-1/2 inches (114 mm) OD.
 2. Maximum Safe Load: 10,000 pounds.
 3. Material: Closed cell polyurethane.
 - a. Compressive Strength: 800-950 psi.
 - b. Tensile Strength: 550-650 psi.
 - c. Density: Skin density greater than core density, 14-18 pcf.
 4. Adhesive: PL premium adhesive must be used on all bedding/butt joints.
 5. Hardware: Hardware kit included with trim collars.
 6. Finish: Factory "double primed" with exterior grade latex pain, ready for installation and field finishing.
 - a. Field Finish Color: _____
 7. Model: As indicated on Drawings.
 8. Model: As selected by Architect.
 9. Model: FBCS 860 Fluted Box Column with Steel Insert.
 10. Model: FBCS 896 Fluted Box Column with Steel Insert.
 11. Model: FBCS 1060 Fluted Box Column with Steel Insert.
 12. Model: FBCS 1096 Fluted Box Column with Steel Insert.
 13. Model: FBCS 8120 Fluted Box Column with Steel Insert.
 14. Model: FBCS 10108 Fluted Box Column with Steel Insert.
 15. Model: FBCS 10116 Fluted Box Column with Steel Insert.
 16. Model: FBCS 10120 Fluted Box Column with Steel Insert."
 17. Model: RBCS 860 Recessed Box Column with Steel Insert.
 18. Model: RBCS 896 Recessed Box Column with Steel Insert.
 19. Model: RBCS 1096 Recessed Box Column with Steel Insert.
 20. Model: RBCS 10108 Recessed Box Column with Steel Insert.
 21. Model: SBCS 860 Smooth Box Column with Steel Insert.
 22. Model: SBCS 896 Smooth Box Column with Steel Insert.
 23. Model: SBCS 1060 Smooth Box Column with Steel Insert.
 24. Model: SBCS 1096 Smooth Box Column with Steel Insert.
 25. Model: SBCS 8120 Smooth Box Column with Steel Insert.
 26. Model: SBCS 8144 Smooth Box Column with Steel Insert.
 27. Model: SBCS 10120 Smooth Box Column with Steel Insert.
 28. Model: SBCS 10144 Smooth Box Column with Steel Insert.

2.7 LOAD BEARING PORCH POSTS ENCASED IN POLYURETHANE

- A. Load Bearing Porch Posts Encased in Polyurethane: As manufactured by Spectis Moulders Inc.
1. Construction: Load bearing, 2-7/8 inches (73 mm) OD galvanized steel pipe encased in polyurethane
 2. Maximum Safe Load: 12,000 pounds.
 3. Material: Closed cell polyurethane.
 - a. Compressive Strength: 800-950 psi.
 - b. Tensile Strength: 550-650 psi.
 - c. Density: Skin density greater than core density, 14-18 pcf.
 4. Adhesive: PL premium adhesive must be used on all bedding/butt joints.
 5. Hardware: Hardware kit included with trim collars.
 6. Finish: Factory "double primed" with exterior grade latex pain, ready for installation and field finishing.
 - a. Field Finish Color: _____
 7. Model: As indicated on Drawings.

8. Model: As selected by Architect.
9. Model: PP 3200 Porch Post.
10. Model: PP 3201 Porch Post.
11. Model: PP 3202 Porch Post.
12. Model: PP 3203 Porch Post.
13. Model: PP 3204 Porch Post.
14. Model: PP 3205 Porch Post.
15. Model: PP 3206 Porch Post.
16. Model: PP 3207 Porch Post.
17. Model: PP 3208 Porch Post.

2.8 LAMP POSTS

- A. Lamp Posts: Galvanized steel pipe encased in mould polyurethane as manufactured by Spectis Moulders Inc.
 1. Model: LP 3700 Lamp Post
 2. Construction: 3 inches (76 mm) OD galvanized steel pipe extending 1-3/4 inches (44.5 mm) from the top to which the light fixture is attached, encased in polyurethane; light fixture not included.
 3. Material: Closed cell polyurethane.
 - a. Compressive Strength: 800-950 psi.
 - b. Tensile Strength: 550-650 psi.
 - c. Density: Skin density greater than core density, 14-18 pcf.
 4. Finish: Factory "double primed" with exterior grade latex pain, ready for installation and field finishing.
 - a. Field Finish Color: _____

2.9 FINISHING ACCESSORIES

- A. Primer: Sherwin Williams A100 or PrepRite Classic Interior Latex Primer.
- B. Paint: Sherwin Williams A100 or SuperPaint.
- C. PreCleaner: Sherwin Williams Pro Clean Professional.
- D. Caulking: Sherwin Williams ProSelect 1100A.
- E. Deco Flex: Sherwin Williams SuperPaint.
- F. Lightweight Automotive Filler: Car Systems AutoFit, Eurosoft # CARS134458.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Inspect conditions of substrate and other conditions which may affect installation of signage.
- B. Do not begin installation until substrates are within manufacturer's specified tolerances and have been prepared in accordance with manufacturer's instructions.
- C. If substrate preparation is the responsibility of another installer, do not proceed with installation. Notify Architect of unsatisfactory preparation immediately.
- D. Commencement of work is deemed as acceptance of installation conditions.

3.2 STRUCTURAL COLUMNS AND PORCH POST INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Measure total length necessary to fill opening where column is to be located.

- C. Cut column shafts 1/4 inch (6 mm) shorter than the overall opening to accommodate clearance necessary for mounting hardware.
- D. Slip cap and base on appropriate ends of column and slide up/down the shaft.
- E. Locate hardware into ends of columns.
- F. Slip complete assembly into opening. Externally secure column while fastening hardware.
- G. Rotate column 45 degrees from square and position hardware.
- H. Secure hardware to deck and beam (making the column is sure plumb and level) by screwing directly through each corner of hardware and into deck and beam beyond using the appropriate fastener. Deck screw or masonry anchor. (Provided) Rotate column back into final position.
- I. Secure column from uplift by cross screwing (pre-drill first) through both ends of the column shaft and into hardware using 4 inch (102 mm) self-tapping metal screws provided. Select a location which will covered by the cap/base.
- J. Apply PL Premium adhesive to the underside of the cap/base and side into final position at the ends of the column shaft.
- K. Secure cap/base in place by using brad nails or screws into the side of the column shaft.
- L. Finish installation by filling screw holes, caulking around cap/base interface with column shaft and where cap and base meet the floor/ceiling before applying field coatings in accordance with manufacturer's recommendations.

3.3 DECORATIVE COLUMN INSTALLATION

- A. One Piece Shaft/Telescoping Cap and Base:
 - 1. Measure total length necessary to fill opening where column is to be located.
 - 2. Cut column shaft approximately 1 inch (25 mm) shorter that overall opening.
 - 3. Slip cap and base on appropriate ends of column shaft and locate assembly into the opening. Externally secure the column while fastening cap and base.
 - 4. Apply PL Premium adhesive to underside of base and secure to floor by screwing directly through each corner of the base into substrate beyond with appropriate fastener. Plated deck or masonry screw.
 - 5. Apply adhesive to underside of cap and secure to ceiling or beam by screwing directly through each corner of cap into substrate beyond with appropriate fastener. Plated deck or masonry screw.
 - 6. Secure column shaft from rotating in cap and base by cross screwing through base and into column shaft. Select a location which will be easily repaired.
 - 7. Finish the installation by filling the screw holes, caulking around the cap/base interface with the column shaft and if necessary, where the cap and base meet the floor/ceiling before applying field coatings in accordance with manufacturer's recommendations
- B. One Piece Shaft/Non-Telescoping Cap and Base: (Column shaft rests on cap/base)
 - 1. Measure total length necessary to fill opening where column is to be located. (Include caps and bases.)
 - 2. Cut column shafts so that when caps and bases are installed onto each end of shaft, the complete assembly measures the same as opening.
 - 3. With shaft cut, apply PL Premium adhesive to ends of column shaft and screw both cap and base to each end of shaft from the underside of each using plated deck screws.
 - 4. Slip completed assembly into the opening. Secure column in place (making sure plumb and level) by screwing directly through each corner of cap/base and into floor, deck, beam or ceiling beyond with appropriate fastener. Deck or masonry

- screw.
5. Finish installation by filling screw holes, caulking around the cap/base interface with the column shaft and if necessary, where the cap and base meet the floor/ceiling before applying field coatings in accordance with manufacturer's recommendations
- C. Split Shaft Columns:
1. When installing a split column over an existing load bearing member, cut cap and base in half, and cope them out to fit around the structural member.
 2. Reassemble cap and base around supporting member, using PL Premium between both halves of cap/base and plated deck screws.
 3. Identify which type of cap/base configuration you are working with and cut column shaft and fasten cap and base as per subparagraph 1 or subparagraph 2 above.
 4. Apply PL Premium adhesive to aligning splines and dados in each column half. Reassemble column shaft around supporting member by aligning two halves and clamping together. Make sure adhesive is oozing from seams when assembled. Both plated deck screws and air nails can be used to hold two halves together while adhesive cures.
 5. Secure cap, base, and column shaft as described in subparagraph 1 or subparagraph 2 above.
 6. Allowing 24-48 hrs for adhesive to cure, the vertical seams in the column can be "seamed". See manufacturer's literature for details.
 7. After shaft is completely seamed, finish installation by filling the screw holes, caulking around the cap/base interface with the column shaft and if necessary, where the cap and base meet the floor/ceiling before applying field coatings in accordance with manufacturer's recommendations

3.4 FINISHING

- A. Allow adhesive to dry 24-48 hours before beginning the finishing procedure.
- B. Cut off any excess adhesive using a utility knife.
- C. Clean and remove all dirt, oil and greases from surface of product using a wax and grease remover product such as Sherwin-Williams Pro-Clean Professional.
- D. With 80 grit sandpaper, "rough up" surface surrounding screw/nail holes made during installation to ensure good filler adhesion.
- E. Sand all joint areas with 80 grit sandpaper to "rough up" and "blend in" any misalignment of product during installation.
- F. Once all areas needing repair are "roughed up" and "blended in", remove all dust from the surface of the product, again using the wax and grease remover.
 1. Use compressed air to remove the excess sanding dust.
- G. Apply filler to the areas needing repair. Use a 2- component, light weight automotive filler, such as " Car Systems AutoFit, Eurosoft # CARS134458." Apply the filler using thin coats, sanding between each coat with 120 or 180 grit sandpaper. Apply minimum of 2 coats of filler to get the results detailed in manufacturer's literature.
- H. Prime all areas which have had filler applied. Use an interior/exterior latex primer such as Sherwin-Williams A100.
- I. Caulk seams along bedding edges of moulding, around ceiling medallions, around column shafts, around caps/bases, around the end of railings, around balusters, and in any other area necessary to provide a clean installation. Use an exterior, paintable exterior Latex caulking such as Sherwin-Williams ProSelect 1100A.
- J. Paint the product in color specified by Architect. Dark or glossy colors are not recommended as they will accentuate any flaws left during the installation. Use a

product such as Sherwin Williams Interior/Exterior A100 or SuperPaint, flat or satin.

3.5 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION