SECTION 10 73 00

EXTERIOR SPECIALTIES: Protective Cover

PART 1   GENERAL

1.1 SECTION INCLUDES

    A.   Structural Fiberglass Pergola (Free-Standing and Attached), Arbors, Trellises/Eyebrows/Wall Pergolas.

    B.   Structural Fiberglass Columns and Components.

    C.   Pergola/Arbor Slab and Footings.

    D.   Pergola Shade Systems.

1.2 RELATED SECTIONS

    A.   Section 02 20 00   Site Assessment.

    B.   Section 03 30 00   Cast-in-Place Concrete.

    C.   Section 06 20 00   Finish Carpentry.

    D.   Section 09 90 00   Painting and Coating.

1.3 REFERENCES

    A.   ASCE/SEI 7-10   Minimum Design Loads for Buildings and Other Structures.

1.4 SUBMITTALS

    A.   Submit under provisions of Section 01 33 00.

    B.   Product Data: Manufacturer's data sheets on each product to be used, including:

        i.   Product information sheets.

        ii.   Installation instructions.

        iii.   Anchoring details

        iv.   Shop drawings that include assembled dimensions, and locations of connections and anchorage.

    C.   Samples: Two sets of color samples of the specified color.

1.5 QUALITY ASSURANCE

    A.   Manufacturer Qualifications:

        i.   Manufactures all columns and structural members on-site.

        ii.   Maintains an ICC approved quality manual.

        iii.   Designs, engineers, applies coatings and prefabricates structures on-site.

    B.   Installer Qualifications:

        i.   Familiar with manufacturer's structures and installation techniques.

1.6 DELIVERY, STORAGE, AND HANDLING

    A.   All packages and crates shall be opened and product inspected for damage upon receipt and prior accepting delivery.

    B.   Store packages and crates in a clean area protected from the weather and direct sun until ready prior to installation.

    C.   Handle materials so as to not damage materials, coatings, and finishes during transportation and installation.

1.7 WARRANTY

    A.   Provide manufacturer's warranties, as it relates to the structure's columns, components, and shade systems.

PART 2   PRODUCTS

2.1 APPROVED MANUFACTURER

    A.   Acceptable Manufacturer: Arbors Direct, 1015 Brundidge Blvd., Troy, AL 36081. sales@arborsdirect.com www.arborsdirect.com 800-930-7495

    B.   Substitutions: Not permitted.

2.2 MATERIALS

A. Structural components shall consist of spun cast and/or pultruded fiberglass columns, rafters and purlins prefinished with the ChromoGuard® engineered coating.

B. Arbor-Loc® metal attachment components will be utilized at each column.

2.3 PRODUCTS (Eliminate products not specified on project)

A. Free Standing Pergola

    i. Stock Free Standing Pergola

        a. 12'x12' Overhead (8'x8' Column Center) dimensioned Pergola prefinished with white ChromoGuard® engineered coating including 4 – 8"x8' Round No-Taper PermaLite® Fiberglass Columns with Tuscan Caps and Bases, Support Rafters, Rafters, Purlins, Headers, Arbor-Loc® Tie Down System and installation hardware.

        b. 12'x12' Overhead (8'x8' Column Center) dimensioned Pergola prefinished with white ChromoGuard® engineered coating including 4 – 8" x8' Square PermaLite® Fiberglass Columns with Tuscan Caps and Bases, Support Rafters, Rafters, Purlins, Headers, Arbor-Loc® Tie Down System and installation hardware.

        c. 14'x14' Overhead (10'x10' Column Center) dimensioned Pergola prefinished with white ChromoGuard® engineered coating including 4 – 10" x8' Round No-Taper PermaLite® Fiberglass Columns with Tuscan Caps and Bases, Support Rafters, Rafters, Purlins, Headers, Arbor-Loc® Tie Down System and installation hardware.

        d. 14'x14' Overhead (10'x10' Column Center) dimensioned Pergola prefinished with white ChromoGuard® engineered coating including 4 – 10" x8' Square PermaLite® Fiberglass Columns with Tuscan Caps and Bases, Support Rafters,

Rafters, Purlins, Headers, Arbor-Loc® Tie Down System and installation hardware.

    e.   16'x16' Overhead (12'x12' Column Center) dimensioned Pergola prefinished with white ChromoGuard® engineered coating including 4 – 10" x8' Round No-Taper PermaLite® Fiberglass Columns with Tuscan Caps and Bases, Support Rafters, Rafters, Purlins, Headers, Arbor-Loc® Tie Down System and installation hardware.

    f.   16'x16' Overhead (12'x12' Column Center) dimensioned Pergola prefinished with white ChromoGuard® engineered coating including 4 – 10" x8' Square PermaLite® Fiberglass Columns with Tuscan Caps and Bases, Support Rafters and Rafters with Spartan Tails, Purlins, Headers, Arbor-Loc® Tie Down System and installation hardware.

    g.   Semi-Custom Selections (Eliminate if standard color and rafter tail shape are specified)

        1. ChromoGuard® Engineered Coating Color - _____

        2. Rafter Tail - _____

    h.   Mor-Shade™ Shade Systems (Eliminate if not specified)

        1. Mor-Shade™ Canopy: Color - _____

        2. Mor-Shade™ Sail: Color - _____

        3. Mor-Shade™ Purlin: Number of Purlin - _____

    i.   Wind Load/Deck Plates (Eliminate if not specified)

ii.   Standard Free Standing Pergola (Eliminate items not specified)

    a.   Pergola prefinished with white ChromoGuard® engineered coating including 4 – 10"x8' Round Taper PermaCast® Fiberglass Columns with Tuscan Caps and Bases, Support Rafters, Rafters, Purlins, Arbor-Loc® Tie Down System and installation hardware.

b. Pergola prefinished with white ChromoGuard® engineered coating including 4 – 10"x8' Square PermaLite® Fiberglass Columns with Tuscan Caps and Bases, Support Rafters, Rafters, Purlins, Arbor-Loc® Tie Down System and installation hardware.

c. Overhead Dimension (Eliminate items not specified)

1.	12'x12'	18.	18'x14'
2.	12'x14'	19.	18'x16'
3.	12'x16'	20.	18'x18'
4.	12'x18'	21.	18'x22'
5.	12'x22'	22.	18'x26'
6.	14'x12'	23.	20'x12'
7.	14'x14'	24.	20'x14'
8.	14'x16'	25.	20'x16'
9.	14'x18'	26.	20'x18'
10.	14'x20'	27.	20'x20'
11.	14'x22'	28.	20'x22'
12.	16'x12'	29.	22'x12'
13.	16'x14'	30.	22'x14'
14.	16'x16'	31.	22'x16'
15.	16'x18'	32.	22'x18'
16.	16'x22'	33.	22'x22'
17.	18'x12'		

d. Semi-Custom Selections (Eliminate if standard color and rafter tail shape are specified)

1. ChromoGuard® Engineered Coating Color - _____

2. Rafter Tail - _____

e. Mor-Shade™ Shade Systems (Eliminate if not specified)

1. Mor-Shade™ Canopy: Color - _____

2. Mor-Shade™ Sail: Color - _____

3. Mor-Shade™ Purlin: Number of Purlin - _____

    f.   Wind Load/Deck Plates (Eliminate if not specified)

    iii.   Custom Free Standing Pergola

        a.   Overhead Dimension: _____ x _____

        b.   Total Height: _____

        c.   PermaCast® Round Tapered Column with Tuscan Caps and Bases: (Eliminate if not specified)

            1. Size: _____

            2. Style: _____

            3. Number of Columns: _____

        d.   PermaLite® Square Column with Tuscan Caps and Bases: (Eliminate if not specified)

            1. Size: _____

            2. Style: _____

            3. Number of Columns: _____

        e.

        f. Rafter Spacing: _____

        g.   Purlin Spacing: _____

        h.   ChromoGuard® Engineered Coating Color - _____

        i. Rafter Tail Style - _____

        j. Mor-Shade™ Shade Systems (Eliminate if not specified)

            1. Mor-Shade™ Canopy: Color - _____

            2. Mor-Shade™ Sail: Color - _____

            3. Mor-Shade™ Purlin: Number of Purlin - _____

        k.   Wind Load/Deck Plates (Eliminate if not specified)

  B.   Attached Pergolas (Eliminate items not specified)

    i.   Stock Attached Pergola

        a.   12'x10' Overhead (8'x8' Column Center) dimensioned Pergola prefinished with white ChromoGuard® engineered coating including 2 – 8"x8' Round No-Taper PermaLite®

Fiberglass Columns with Tuscan Caps and Bases, Support Rafters, Rafters, Purlins, Headers, Arbor-Loc® Tie Down System and installation hardware.

b.   12'x10' Overhead (8'x8' Column Center) dimensioned Pergola prefinished with white ChromoGuard® engineered coating including 2 – 8" x8' Square PermaLite® Fiberglass Columns with Tuscan Caps and Bases, Support Rafters, Rafters, Purlins, Headers, Arbor-Loc® Tie Down System and installation hardware.

c.   14'x10' Overhead (10'x10' Column Center) dimensioned Pergola prefinished with white ChromoGuard® engineered coating including 2 – 10" x8' Round No-Taper PermaLite® Fiberglass Columns with Tuscan Caps and Bases, Support Rafters, Rafters, Purlins, Headers, Arbor-Loc® Tie Down System and installation hardware.

d.   14'x10' Overhead (10'x10' Column Center) dimensioned Pergola prefinished with white ChromoGuard® engineered coating including 2 – 10" x8' Square PermaLite® Fiberglass Columns with Tuscan Caps and Bases, Support Rafters, Rafters, Purlins, Headers, Arbor-Loc® Tie Down System and installation hardware.

e.   Semi-Custom Selections (Eliminate if standard color and rafter tail shape are specified)

    1. ChromoGuard® Engineered Coating Color -
       _____

    2. Rafter Tail - _____

f. Mor-Shade™ Shade Systems (Eliminate if not specified)

    1. Mor-Shade™ Canopy: Color - _____

    2. Mor-Shade™ Sail: Color - _____

    3. Mor-Shade™ Purlin: Number of Purlin - _____

g.   Wind Load/Deck Plates (Eliminate if not specified)

ii. Standard Attached Pergola (Eliminate items not specified)

    a. Pergola prefinished with white ChromoGuard® engineered coating including 2 – 10" x8' Round Taper PermaCast® Fiberglass Columns with Tuscan Caps and Bases, Support Rafters, Rafters, Purlins, Arbor-Loc® Tie Down System and installation hardware.

    b. Pergola prefinished with white ChromoGuard® engineered coating including 2 – 10" x8' Square PermaLite® Fiberglass Columns with Tuscan Caps and Bases, Support Rafters, Rafters, Purlins, Arbor-Loc® Tie Down System and installation hardware.

    c. Overhead Dimension (Eliminate items not specified)

1. 12'x10'	18. 18'x12'
2. 12'x12'	19. 18'x14'
3. 12'x14'	20. 18'x16'
4. 12'x16'	21. 18'x20'
5. 12'x18'	22. 20'x10'
6. 12'x20'	23. 20'x12'
7. 14'x10'	24. 20'x14'
8. 14'x12'	25. 20'x16'
9. 14'x14'	26. 20'x18'
10. 14'x16'	27. 20'x20'
11. 14'x20'	28. 20'x22'
12. 16'x10'	29. 22'x10'
13. 16'x12'	30. 22'x12'
14. 16'x14'	31. 22'x14'
15. 16'x16'	32. 22'x16'
16. 16'x20'	33. 22'x20'
17. 18'x10'	34. 22'x22'

    d. Semi-Custom Selections (Eliminate if standard color and rafter tail shape are specified)

      1. ChromoGuard® Engineered Coating Color -

      _____

      2. Rafter Tail - _____

   e. Mor-Shade™ Shade Systems (Eliminate if not specified)

      1. Mor-Shade™ Canopy: Color - _____

      2. Mor-Shade™ Sail: Color - _____

      3. Mor-Shade™ Purlin: Number of Purlin - _____

   f. Wind Load/Deck Plates (Eliminate if not specified)

iii. Custom Attached Pergola

   a. Overhead Dimension: _____ x _____

   b. Total Height: _____

   c. PermaCast® Round Tapered Column with Tuscan Caps and

    Bases: (Eliminate if not specified)

      1. Size: _____

      2. Style: _____

      3. Number of Columns: _____

   d. PermaLite® Square Column with Tuscan Caps and Bases:

    (Eliminate if not specified)

      1. Size: _____

      2. Style: _____

      3. Number of Columns: _____

   e. Rafter Spacing: _____

   f. Purlin Spacing: _____

   g. ChromoGuard® Engineered Coating Color -

    _____

   h. Rafter Tail Style - _____

   i. Mor-Shade™ Shade Systems (Eliminate if not specified)

      1. Mor-Shade™ Canopy: Color - _____

      2. Mor-Shade™ Sail: Color - _____

      3. Mor-Shade™ Purlin: Number of Purlin - _____

   j. Wind Load/Deck Plates (Eliminate if not specified)

C. Arbors

    i. Stock Arbors

        a. 12'x3' Overhead (8'x8' Column Center) dimensioned Arbor prefinished with white ChromoGuard® engineered coating including 2 – 10" x8' Round Tapered PermaCast® Fiberglass Columns with Tuscan Caps and Bases, Rafters, Purlins, Arbor-Loc® Tie Down System and installation hardware.

        b. 12'x3' Overhead (8'x8' Column Center) dimensioned Arbor prefinished with white ChromoGuard® engineered coating including 2 – 10" x8' Square PermaLite® Fiberglass Columns with Tuscan Caps and Bases, Rafters, Purlins, Arbor-Loc® Tie Down System and installation hardware.

    ii. Custom Arbor (Eliminate if not specified)

        a. Overhead Dimension: _____ x _____

        b. Total Height: _____

        c. PermaCast® Round Tapered Column with Tuscan Caps and Bases: (Eliminate if not specified)

           1. Size: _____

           2. Style: _____

           3. Number of Columns: _____

        d. PermaLite® Square Column with Tuscan Caps and Bases: (Eliminate if not specified)

           1. Size: _____

           2. Style: _____

           3. Number of Columns: _____

        e. Purlin Spacing: _____

        f. ChromoGuard® Engineered Coating Color - _____

        g. Rafter Tail Style - _____

D. Trellises

    i. Stock Trellis (Eliminate if not specified)

a. 11'x2' 4" Overhead Trellis prefinished with white ChromoGuard® engineered coating and installation hardware.

b. 18'x2' 4" Overhead Trellis prefinished with white ChromoGuard® engineered coating and installation hardware.

c. 20'x2' 4" Overhead Trellis prefinished with white ChromoGuard® engineered coating and installation hardware.

ii. Custom Trellis (Eliminate if not specified)

a. Overhead Dimension: _____ x _____

b. Purlin Spacing: _____

c. Rafter Spacing: _____

d. ChromoGuard® Engineered Coating Color -

_____

e. Rafter Tail Style - _____

PART 3   EXECUTION

3.1 EXAMINATION

A. Do not begin installation until site and supporting structures have been properly prepared.

B. Unsatisfactory concrete pad/footing preparation should be identified to the Architect before proceeding.

3.2 PREPARATION

A. Clean all component surfaces thoroughly prior to installation.

3.3 INSTALLATION

A. Install in accordance with manufacturer's instructions using provided hardware.

B. Construct foundations in accordance with local codes and good construction practices for the specific structure and site conditions.
1. Surface mount concrete slab: Surface mount units on existing concrete slab as indicated in the installation instructions. Concrete shall conform to Section 03300.

2. Surface mount on footings: Surface mount units on new concrete footings as indicated in the on the approved shop drawings. Slab requirements may vary according to structure size. Concrete shall conform to Section 03300.

3. Arbor-Loc™ anchoring system shall be accurately set using manufacturer's instructions.

4. Canopy Systems shall be install in accordance with manufacturer's instructions.

3.4 CLEANING

A.   Clean all surfaces and restore any marred surfaces to original conditions as approved by the Architect.

3.5 PROTECTION

A.   Protect installed products until completion of project.

B.   Touchup, repair, or replace damaged products before completion.

END OF SECTION

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