SECTION 06 5300

PLASTIC DECKING (WOLF SERENITY DECKING)

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Plastic decking.

1.02 RELATED REQUIREMENTS

A. Section 03 3000 - Cast-in-Place Concrete: Bearing support.

B. Section 06 1000 - Rough Carpentry: Bearing support.

C. Section 06 5313 - Plastic Porch Decking

1.03 REFERENCE STANDARDS

A. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2018b.

1.04 SUBMITTALS

A. Product Data: Manufacturer's data sheets on each product, including:

1. Preparation instructions.

2. Storage and handling requirements.

3. Installation methods.

4. Warranty Sample: Submit manufacturer’s standard warranty information including limitations, exclusions, prorating table and claim procedures.

B. Samples: Provide samples in colors specified, not less than 6 inches in length.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with at least five years of documented experience.

B. Installer Qualifications: Company specializing in performing work of the type specified in this section, with at least three years of documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.

B. Comply with manufacturer's recommendations. Handle materials to avoid damage.

1.07 WARRANTY

 **(Note to Writer: Paragraph A. applies to single-family home, townhome, or multifamily dwelling (up to 3 units) that are not owned by corporate entities (e.g. corporations, LLCs), governmental agencies, partnerships, trusts, religious organizations, schools, condominiums or pursuant to cooperative housing arrangements.)**

A. Residential Purchasers: Wolf Serenity

1. Manufacturer's Product Warranty: Provide manufacturer’s limited lifetime warranty.

a. Warranty Period: Lifetime (50 Years).

b. Warranty shall include defects in manufacturing that cause products to:

1) Rot.

2) Corrode.

3) Delaminate.

4) Splinter or split.

5) Structural damage from termites or fungus.

6) Excessively swell from moisture.

c. Manufacturer’s Stain Resistant Warranty: Provide manufacturer’s standard 25 years, stain resistant warranty.

d. Manufacturer’s Fade Resistant Warranty:

1) Decking shall not fade from light or weathering more than 5 Delta E units in the first 5 years and not more than 10 Delta E units during the entire warranty period. Fading between years 6 and year 25 shall not exceed the manufacturer’s maximum color change table.

2) Total Warranty Period: 25 years.

e. Contractor’s Workmanship Warranty: Provide 5 year warranty on the workmanship of the installation if a certified Wolf PRO contractor is used.

 **(Note to Writer: Use Paragraph B. for all projects except those that meet the manufacturer’s requirements Residential Purchaser.)**

B. Commercial or Non-Residential Applications: Wolf Serenity

1. Manufacturer's Product Warranty: Provide manufacturer’s standard pro-rated warranty.

2. Warranty Period: Twenty years (20 Years).

3. Warranty shall include defects in manufacturing that cause products to:

a. Rot.

b. Corrode.

c. Delaminate.

d. Splinter or split.

e. Structural damage from termites or fungus.

f. Excessively swell from moisture.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Plastic Decking: Basis of Design: Products specified herein and shown on the Drawings are based on Wolf Serenity™ decking as manufactured by Inteplast Group Corporation for Wolf Home Products; other equivalent products will be acceptable.

2.02 PLASTIC DECKING

A. Serenity Plastic Decking: Capped PVC plastic in standard deck board sizes and non-grooved profile.

1. Size: Decking: 1 by 5-1/2 inches.

2. Lengths: 12’, 16’ and 20’

3. Size: Fascia Trim Board: 1/2 by 11-3/4 inches x 12 feet.

4. Texture: Molded, wood grain, reversible.

5. Tropical Hardwood Colors:

a. Amberwood

b. Golden Cypress

c. Rosewood

d. Teakwood

e. Black Walnut

f. Driftwood Grey

g. Silver Teak

h. Weathered Ipe

6. Seaside Colors:

a. Harbor Grey

b. Sand Castle

7. Edges, Field Boards: Solid profile.

8. Edges, Perimeter Boards: One edge square and bullnose on the other.

9. Recycled content: 95 percent.

10. Surface Burning Characteristics: Flame spread index of 200, maximum; smoke developed index of 285, maximum; when tested in accordance with ASTM E84.

B. Performance: 100 psf with deflection limited to 1/360 of span.

2.03 ACCESSORIES

A. Fasteners and Anchors:

1. Fasteners: Stainless steel HIDfast, Cortex, or “Camo” fasteners, trim head.

2. Minimum Screw Size: #10 Screw.

3. Minimum Screw Length: 2 ¼ inches.

 **\*\*NOTE TO WRITER: Delete the following item if Project is not located near the coast.\*\***

B. Coastal Applications: Provide Type 316 stainless steel fasteners.

C. Adhesive: Manufacturer's recommended; waterproof, air cure type, cartridge dispensed.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that support framing is ready to receive decking.

3.02 PREPARATION

A. Coordinate placement of bearing items.

B. Framing Spacing: Spacing shall not exceed the following:

1. Commercial Applications: 12 inches on center maximum.

2. Diagonal Installations: 12 inches on center maximum.

3. Perpendicular Applications: 16 inches on center maximum.

4. Steps and Stairs: Stringers not more than 11 inches on center, refer to manufacturer’s detail for additional 2 x 6 support.

3.03 INSTALLATION

A. General: Install products in accordance with manufacturer's instructions.

B. Cutting: Use saw capable of miter cuts with a fine-toothed carbide tipped finish trim blade with following minimum tooth count:

1. 7 ¼” Diameter Blade: 50 tooth minimum.

2. 10” Diameter Blade: 70 tooth minimum.

3. 12” Diameter Blade: 84 tooth minimum.

C. Decking:

1. Install with embossed or grain side up. Install rim boards with embossed or grain side out.

2. Fasten tight to joists. Provide shims if there are variations in framing.

a. Install a minimum of 2 fasteners within ½ inch of the end of each board.

b. Install boards together tightly at spliced joints and miters

c. Leave a ¼” gap between decking and any structure (wall or post).

d. Stagger miters or splices so they do not all break on the same joist.

3. Countersink fasteners. Provide necessary clearance when installing the next board.

4. Cut final boards as required.

5. Refer to manufacturers board spacing chart based on temperature at the time of installation.

D. Expansion and Contraction: Based on a 50 degrees F temperature change the approximate movement is as follows:

1. 12 Foot Board: 3/16 inch.

2. 16 Foot Board: 1/4 inch.

3. 20 Foot Board: 5/16 inch.

E. Install decking with ends staggered over firm bearing.

3.04 CLEANING

A. Clean surfaces according to manufacturer's written instructions.

3.05 PROTECTION

A. Protect installed work from subsequent construction operations. Repair damaged surfaces. Remove and replace work which cannot be repaired.

END OF SECTION