PLEASE PLANT

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Product 2.2: Composite Decking | GEO-CMP

SECTION 06 73 00 – COMPOSITE DECKING

PART 1 – GENERAL

1.1 SUMMARY
This section includes composite decking for commercial, residential, and industrial applications.

1.2 RELATED SECTIONS
Section 03 30 00 – Cast-in-Place Concrete for structural supports and foundations.
Section 05 12 00 – Structural Steel Framing for deck framing and support structures.
Section 09 90 00 – Painting and Coating for optional protective coatings on decking finishes.

1.3 REFERENCES
ASTM D7032 – Standard Specification for Wood-Plastic Composite Decking.
ASTM E84 – Standard Test Method for Surface Burning Characteristics of Building Materials.
ASTM G154 – Standard Practice for Operating Fluorescent UV Lamp Apparatus for Exposure of Nonmetallic Materials.
ANSI A137.1 – Standard for Slip Resistance.
ICC-ES AC174 – Acceptance Criteria for Composite Wood Decking.

1.4 SUBMITTALS
Submit manufacturer specifications, dimensions, load capacity, and finish options.
Provide shop drawings that include decking layout, fastening methods, and structural support details.
Submit material and finish samples upon request.
Provide certification demonstrating compliance with ASTM and ANSI standards.

1.5 QUALITY ASSURANCE
The manufacturer must have a minimum of five years' experience in manufacturing composite decking.
A pre-installation meeting must be conducted with contractors and project stakeholders to verify installation requirements.

1.6 DELIVERY, STORAGE, AND HANDLING
Deliver decking in original protective packaging with clear identification labels.
Store in a clean, dry area protected from moisture and direct sunlight.
Handle with care to prevent bending, scratching, or coating damage.

1.7 WARRANTY
A. Provide manufacturer's standard warranty, including an 8-year structural warranty, 3 years on coatings and finishes, and 2 years on components. Consult terms and conditions for full warranty details per product type.

PART 2 – PRODUCTS

2.1 MANUFACTURER

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2.2 MATERIALS

Product nomenclature follows the format GEO-CMP-[Profile Code]-[Size Code]-[Finish Code].
Profile Code options include SLD (Solid), HLD (Hollow), and TXR (Textured).
Size Code options include 12, 16, and 20 feet in length.
Finish Code options include UVR (UV-Resistant), SR (Slip-Resistant), and C (Custom Color).
Example: GEO-CMP-SLD-16-UVR (Solid composite decking, 16 feet, UV-resistant finish).

2.3 COMPOSITION

Manufactured using recycled wood fibers and high-performance polymers.
Formulated with UV-stable additives to reduce fading and surface degradation.

2.4 SURFACE FINISH

Slip-resistant textures available in grooved, embossed, or smooth surfaces.
Low-maintenance coatings prevent moisture absorption and staining.

2.5 STRUCTURAL PERFORMANCE

Load-bearing capacity tested to exceed ICC-ES AC174 requirements.
High-impact resistance with minimal expansion and contraction.

2.6 DIMENSIONS AND CUSTOMIZATION

Standard widths include 5.5 inches, 7.25 inches, and 9.25 inches with custom widths available.
Thickness options are 1 inch, 1.5 inches, and 2 inches.
Lengths are available in 12, 16, and 20 feet.
Custom color finishes are available in standard and custom-matched selections.
Routed edges are available for concealed fastener installations.
Integrated LED lighting is available for safety and aesthetics.

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PART 3 – EXECUTION

3.1 EXAMINATION
Verify site conditions, including structural supports and framing alignment.
Ensure that concrete foundations and attachment locations are level and prepared for installation.

3.2 INSTALLATION
Install composite decking in accordance with manufacturer instructions.
Securely fasten decking boards using recommended concealed fasteners or screw-down methods.
Allow for thermal expansion gaps as per manufacturer guidelines.
Ensure uniform spacing for consistent alignment.

3.3 RAISED OR ROOFTOP INSTALLATIONS
Secure to adjustable pedestal supports if required.
Provide adequate drainage to prevent standing water.

3.4 MAINTENANCE AND INSPECTION
Remove debris and dirt with mild detergents and soft brushes.
Avoid pressure washing above manufacturer-recommended PSI.
Conduct visual inspections for loose fasteners, surface wear, and stability.
Replace or resecure damaged components as needed.

3.5 PROTECTION
Protect installed decking from construction activities until project completion.

END OF SECTION