PLEASE PLANT

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Product 2.1: Metal Decking Systems | GEO-DCK

SECTION 053100 – METAL DECKING SYSTEMS
PART 1 – GENERAL

1.1 SUMMARY
A. Section includes: Metal decking systems designed for strength, durability, and corrosion resistance in commercial, industrial, and municipal applications.
B. Related sections:
Section 051200 – Structural Steel Framing for supporting structures.
Section 033000 – Cast-in-Place Concrete for composite slab installations.

1.2 REFERENCES
A. ASTM E119 – Standard Test Methods for Fire Tests of Building Construction and Materials.
B. ASTM B117 – Standard Practice for Operating Salt Spray (Fog) Apparatus.

1.3 SUBMITTALS
A. Product Data: Provide manufacturer's product specifications, load capacity ratings, and finish options.
B. Shop Drawings: Include detailed dimensions, thickness, and installation configurations.
C. Samples: Submit finish samples and material swatches upon request.

1.4 QUALITY ASSURANCE
A. Manufacturer Qualifications: Minimum of 5 years' experience producing metal decking systems for structural applications.
B. Mock-Up: Provide mock-up sections if requested by the project owner.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Protect decking panels from moisture and damage during shipment, storage, and handling.
B. Store materials on a flat, dry surface with adequate ventilation to prevent warping or corrosion.

1.6 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.

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PART 2 – PRODUCTS

2.1 MANUFACTURER

A. Please Plant, 200-100 Park Royal S, Vancouver, BC
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2.2 METAL DECKING SYSTEMS

A. Product Nomenclature: GEO-DCK-[Material Code]-[Profile Code]-[Finish Code]-[Thickness]
Material Code: ST (Steel), AL (Aluminum).
Profile Code: R (Ribbed), FL (Flat), CO (Corrugated).
Finish Code: PC (Powder-Coated), GAL (Galvanized), AN (Anodized).
Thickness: Specify thickness in mm (e.g., 1.5, 2.0, 3.0).
Example: GEO-DCK-ST-R-PC-2.0 (Steel decking, ribbed profile, powder-coated finish, 2.0 mm thickness).

B. Materials:
Steel: High-strength steel with powder-coated or galvanized finishes.
Aluminum: Lightweight aluminum for reduced structural load requirements.

C. Dimensions:
Standard lengths: Up to 40 feet.
Thickness: Available from 1.5 mm to 3.5 mm, depending on load requirements.
Profiles: Ribbed, flat, or corrugated.

D. Performance:
Load Capacity: Rated to meet ASTM structural standards for heavy-load applications.
Corrosion Resistance: Exceeds ASTM B117 standards for protection against salt spray and harsh environments.
Fire Rating: Certified to ASTM E119 standards.

E. Customization Options:
Pre-drilled panels for simplified installation.
Custom finish colors and textures to match project specifications.

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PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify that substrates are level and capable of supporting the specified decking system's load requirements.
B. Confirm dimensions and layout with shop drawings before proceeding with installation.

3.2 INSTALLATION

A. General Installation:
Install decking panels in accordance with manufacturer-provided guidelines.
Ensure proper alignment of pre-drilled holes with structural supports to minimize labor time.
B. Connection Methods:
Weld decking panels to supporting steel framing where required by design.
Use manufacturer-provided anchoring hardware for secure attachment.
C. Tolerances:
Maintain a maximum alignment tolerance of ±1/16" for panel joints.

3.3 CLEANING AND MAINTENANCE

A. Cleaning:
Clean panels using non-abrasive detergents to preserve finish integrity.
Avoid harsh chemicals that may damage protective coatings.
B. Maintenance:
Inspect panels annually for surface wear and structural connections.
Address and repair any damage promptly to maintain load-bearing capacity.

3.4 PROTECTION

A. Protect installed decking from construction activities to prevent damage until project completion.

END OF SECTION