PLEASE PLANT

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Product 3.7: Retractable Awnings | GEO-AWN

SECTION 107300 – RETRACTABLE AWNINGS
PART 1 – GENERAL

1.1 SUMMARY
A. Section Includes:
Retractable awnings for commercial and residential outdoor applications, including patios, storefronts, hospitality spaces, and rooftop terraces.
B. Related Sections:
Section 033000 – Cast-in-Place Concrete for mounting foundations.
Section 055000 – Metal Fabrications for custom mounting hardware and brackets.

1.2 REFERENCES
A. ASTM E330 – Standard Test Method for Structural Performance of Exterior Building Systems.
B. ASTM E84 – Standard Test Method for Surface Burning Characteristics of Building Materials.
C. ANSI/SPRI ES-1 – Standard for Edge System Performance for Low-Slope Roofs.
D. AAMA 2604/2605 – Performance specifications for powder-coated aluminum finishes.

1.3 SUBMITTALS
A. Product Data: Include technical specifications for materials, dimensions, finishes, and performance ratings.
B. Shop Drawings: Provide detailed layouts, mounting configurations, and operational clearances.
C. Samples: Submit material and finish samples upon request.

1.4 QUALITY ASSURANCE
A. Manufacturer Qualifications: Minimum of **5 years of experience** producing commercial retractable awnings.
B. Installer Qualifications: Certified personnel with experience in **awning installation** and structural anchoring.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Protect all components from damage during transportation and storage.
B. Store materials in a **dry, ventilated** area 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.

PART 2 – PRODUCTS

2.1 MANUFACTURER
A. Please Plant
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2.2 RETRACTABLE AWNINGS
A. Product Nomenclature: GEO-AWN-[Type Code]-[Operation Code]-[Finish Code]
Type Code: WMT (Wall-Mounted), CMT (Ceiling-Mounted), FRS (Freestanding).
Operation Code: MAN (Manual), MOT (Motorized).
Finish Code: SS (Stainless Steel), ALM (Aluminum), TXT (Textured Coating).
Example: GEO-AWN-WMT-MOT-ALM (Wall-mounted, motorized, aluminum finish).

2.3 MATERIALS
A. Frame:
High-strength **aluminum or stainless steel** with powder-coated finishes.
Corrosion-resistant and UV-stabilized for long-term durability.
B. Canopy Fabric:
UV-resistant, waterproof, and mildew-resistant acrylic or polyester fabrics.
Available in **standard and custom colors**.
C. Performance Ratings:
Wind Resistance: Rated up to **75 mph** when fully extended, higher when retracted.
UV Protection: Blocks up to **99% of UV rays.**
Fire Resistance: Certified to **ASTM E84 Class A standards**.

2.4 DIMENSIONS AND CUSTOMIZATION
A. Standard Dimensions:
Widths: **Up to 30 feet** (custom sizing available).
Projection: **Up to 15 feet**, adjustable.
B. Customization Options:
Manual or motorized operation with remote control and wind sensors.
Custom frame colors and fabric options to match project aesthetics.
Optional integrated LED lighting for enhanced functionality.

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PART 3 – EXECUTION

3.1 EXAMINATION
A. Verify installation site is level, free of obstructions, and structurally sound.
B. Confirm mounting requirements per manufacturer guidelines for **wall, ceiling, or freestanding installations.**

3.2 INSTALLATION
A. Wall-Mounted Models:
Secure using **reinforced brackets and stainless-steel fasteners**.
Ensure alignment and proper extension clearance.
B. Ceiling-Mounted Models:
Install using **flush-mount hardware** for seamless integration.
Verify overhead structure can support operational loads.
C. Freestanding Units:
Assemble modular components per manufacturer instructions.
Anchor securely to **concrete pads or deck surfaces.**
D. Motorized Systems:
Wire power connections to **weather-resistant control systems.**
Program wind sensors and automated retraction settings.

3.3 CLEANING AND MAINTENANCE
A. Cleaning:
Use mild detergents and soft cloths to **clean fabric and metal components**.
Avoid abrasive tools to **preserve coatings and finishes.**
B. Inspections:
Conduct periodic **checks on structural connections, fasteners, and tension systems.**
Lubricate moving parts to **maintain smooth operation.**

3.4 PROTECTION
A. Protect installed awnings from construction debris, impact damage, and chemical exposure during final site work.

END OF SECTION