

SECTION 107300 (10530)

PROTECTIVE COVERS

PART 1 GENERAL

1.1 RELATED SECTIONS – CSI MASTERFORMAT 2010

- A. 107323 Car shelters
- B. 107316 Canopies

1.2 DESCRIPTION

- A. Manufacture and install prefabricated steel carports, canopies, solar support structures, or other commercial and industrial canopy related coverings.

1.3 RELATED WORK

- A. Concrete: General contractor shall provide parking closures and block out openings in concrete slab at each column location when applicable.

1.4 REFERENCES

- A. Structural welding code - AWS d1.1
- B. Sheet metal welding code - AWS d9.1
- C. Standard shapes - ASTM a572 grade 50 (fy=50 ksi)
- D. Plates and angles - ASTM a-36 (fy=36ksi)
- E. Structural tubing - ASTM a-500 grade "B" (fy=46 ksi)
- F. Cold formed shapes - ASTM a-653 or a-570 (fy=55ksi)

1.5 SUBMITTALS

- A. Shop drawings holding the seal of a state registered structural engineer to specify proper construction in compliance with all local codes including, but not limited to, load bearings, wind ratings, seismic, footings required, spacing of columns, roof pitch and minimum clearance height.
- B. Include structural calculations showing load tables, wind ratings, deflection variables, and technical data on all cold form components.
- C. Furnish samples of color for roof deck selection.

1.6 QUALITY ASSURANCE

- A. Manufacturer shall have a minimum of 10 years' experience in the manufacture / supply of steel canopies.
- B. Installer shall have a minimum of 8 years installing pre-engineered steel canopies. Installation shall be in accordance with manufacturers engineering specifications.
- C. Safety meetings shall be held each day before the start of installation work.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store and protect products prior to being delivered to job site.
- B. Deliver products to job site.
- C. Store materials on job site in a manner so they will not be damaged.
- D. Materials shall be placed so water will drain and not accumulate.

1.8 WARRANTY

- A. Provide a two year warranty on all materials and workmanship.
- B. 25 year warranty against fade and chalk of walls and roof.

PART 2 PRODUCTS

2.1 PROTECTIVE COVER MANUFACTURER

- A. **Premier Carports**, Mailing: 312 SW Greenwich Drive #141, Lee's Summit, MO 64082, Manufacturing: 1216 NW Valley Ridge Dr. – Grain Valley, MO 64029, Phone: (855) 875-8011, Email: info@premiercarports.com . Website: www.premiercarports.com.

2.2 MATERIALS

- A. All structural steel beams and columns shall be detailed, shop prime painted (optional galvanizing), piece marked, furnished, fabricated and erected according to the AISC "Specification for Structural Steel Buildings – ASD (allowable stress design)" 9th edition, and the AISC "Code of Standard Practice". Beams and columns shall conform to - ASTM a572 grade 50 (fy=50 ksi), and - ASTM a-500 grade "B" (fy=46 ksi).
- B. Structural steel shall not be altered in the field from that shown on drawings. Cutting, burning, or welding not shown on drawings shall not be performed without the prior written approval of the engineer. C. Roof

deck shall be 26 gauge PBR UL 790 class A fire resistant rating. UL 2218 Class 4 hail impact resistance, with a pre-applied high-performance paint system.

- D. Welding shall be in accordance with the current "structural welding code for steel" D1.1-98 AWS (American Welding Society). Electrodes for welding shall be in accordance with AWS 5.1 or 5.5, E70XX.
- E. Anchoring hardware shall be galvanized, 5/8" diameter, 6" minimum embedment, Zink-coat minimum.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install canopy in a plumb manner to the highest standards of the trade and in strict accordance with the engineering drawings and manufacturer's instructions.
- B. Install columns and beams at straight and true angles, level where shown, even if there are variances in grade change.
- C. Securely fasten all hardware and anchors in accordance with engineering specifications.
- D. Thoroughly clean canopy and job-site prior to completion.

3.2 INSPECTION

- A. City inspector is required to inspect footing holes and rebar cages, prior to pouring concrete.
- B. Job foreman shall field verify all components are properly installed, and initiate "walk-through" with property manager or superintendent for approval.
- C. Once prior inspections are complete, job foreman is to contact city inspector or architect for final inspection.

END OF SECTION