

TECHNICAL SPECIFICATIONS

A. STRUCTURAL COMPONENTS:

1. COLUMNS:

- 1.1. Structural steel tubing shall be used.
- 1.2. ASTM A500 Grade B with a minimum yield stress of 46,000 psi.
- 1.3. Sized to meet or exceed specific project design load requirements.
- 1.4. Base plates: ASTM A36 structural steel plate with a minimum yield stress of 36,000 psi, 3/4" thick with 3/8" thick gussets per loading conditions.
- 1.5. Top plates: ASTM A36 structural steel plate with a minimum yield stress of 36,000 psi. Shop fabricated with pre-punched or pre-drilled bolt holes.
- 1.6. Provide each column with electrical access openings and cover plates.

2. STRUCTURAL FRAMING:

- 2.1. Wide flange beams shall be used.
- 2.2. ASTM A992 Grade 50 structural steel with a minimum yield stress of 50,000 p.s.i.

3. STRUCTURAL CONNECTIONS:

- 3.1. Structural steel plate shall be used.
- 3.2. ASTM A36 structural steel connection plates with a minimum yield stress of 36,000 psi.
- 3.3. All framing members shall be shop-fabricated for bolted field assembly. (no field welding required)
- 3.4. Domestic ASTM A325, high strength bolt holes shall be used.

4. ANCHOR BOLTS:

- 4.1. 1 1/4" diameter x 36" long headed structural rod with (2) nuts and (2) washers.
- 4.2. ASTM A36 structural steel with a minimum yield stress of 36,000 psi.
- 4.3. Minimum projection above footing shall be 8" finished threads.
- 4.3. Double nuts and washers for each bolt shall be provided; one set to be used as levelers.
- 4.5. Templates for setting anchor bolts shall be a minimum 7/16" thick particle board or 18 gauge steel.
- 4.6. Templates shall be removed before setting column on foundation.

5. CLEANING AND PAINTING:

- 5.1. All framing members are cleaned to remove loose mill scale and other foreign matter. Cleaning process will meet or exceed Steel Structures Painting Council Specification SSPC-3 for powered hand tool cleaning. After cleaning, all framing members will be given one shop coat of air drying red oxide primer. The primer coat thickness shall be a minimum of one mil.

B. DECK PANELS:

1. 20 gauge steel x 16" wide x 3" deep (Brite White) embossed steel panels.
2. ASTM A446 with a minimum yield stress of 50,000 psi having a G60 galvanized surface both sides meeting ASTM A525.
3. Panels are fastened to the wide flange purlin beams with a beam clip.
4. No splicing of deck panels is required.
5. Panels shall have a finish side coated with a full coat of polyester paint baked on over a compatible primer. Reverse side shall be protected by a White wash coat baked on over a compatible primer.

C. FASCIAS:

1. **STRATIFORM STEEL COMPOSITE PANELS (SSCP):**

- 1.1. 24 gauge steel sheet.
- 1.2. G60 hot dipped galvanized, tension leveled and extra smooth on exterior face of panel.
- 1.3. Factory pre-assembled, self-flashing.
- 1.4. No exposed fasteners on bottom or exterior face.
- 1.5. Panel core material: 2" thick virgin expanded polystyrene with nominal 1.0 to 1.5 PCF density.
- 1.6. Panels shall have a finish side pre-coated with a full coat of factory-applied polyester paint baked on over a full coat primer. Strippable film is factory applied to protect panel surfaces during manufacturing, shipping & erecting.

2. FASCIA ATTACHMENT SYSTEMS:

- 2.1. All components shall be galvanized steel or aluminum.

D. ACCESSORIES:

1. PERIMETER GUTTER:

- 1.1. 24 gauge x 14" wide x 4" deep steel panel.
- 1.2. ASTM A446 with a minimum yield stress of 50,000 psi with a G60 galvanized substrate.
- 1.3. Gutters shall have a finish side coated with a full coat of Brite White polyester paint factory applied and baked on over a compatible primer. Interior surface shall be protected by a white wash coat baked on over a full coat of primer.

2. DOWNSPOUTS:

- 2.1. 4" x 3" x .019 Aluminum for exterior or 4" diameter P.V.C pipe for interior application..

3. HARDWARE:

- 3.1. All screws provided are self-drilling, carbon steel, cadmium plated with integral hex head.

4. SEALANTS:

- 4.1. Tube sealant shall be an approved silicone sealant for ascetic applications and Vulkem 921 or equal for applications that require water-tightness.

E. GENERAL NOTES

1. All materials are new, of good quality, and without defects.
2. All materials will conform to the requirements, tolerances, etc. of the latest editions of the AISC Manuel of Steel Construction, AISI Specifications for the Design of Cold Formed Steel Members, ASTM Standard Specifications for General Requirements for rolled steel plates, shapes, sheets, and bars for structural use, and AWS for welded connections.
3. Canopy erection drawings are furnished at time of shipment. Piece marks are included to facilitate easy field identification of all major parts.
4. Anchor bolt setting plans include a recommended footing size.
5. Upon request, design calculations or a letter of design certification, sealed by a registered professional engineer licensed in the state in which the job site is located, shall be provided.
6. All A325 bolts shall be tightened by the turn-of-the-nut method.