

ALUMINUM COLUMN SUPPORTED COVER SPECIFICATION (Beam & Purlin with V-Beam Sheet)

1. GENERAL

This specification covers the design, fabrication, and erection of the Aluminum Column Supported Cover with all appurtenances as indicated on the contract drawings and in conformance with the following specifications.

2. SCOPE

The enclosure fabricator/erector shall furnish all labor, materials and equipment to completely fabricate, deliver, and erect the Aluminum Column Supported Cover.

3. DESIGN AND MATERIALS

The enclosure shall be a column supported roof structure conforming to the specified dimensions. The structure shall consist of beam and purlins covered with corrugated closure panels. Full provisions shall be made to allow for thermal expansion. The structure deadweight shall not exceed 3.0 psf of surface area.

The cover surface paneling shall be designed as a watertight system under all design load and temperature conditions. All raw edges of the aluminum panels shall be firmly secured to the support frame to prevent slipping or disengagement under all load and temperature changes. Dissimilar materials which are not compatible shall be physically separated or insulated from each other by means of gaskets or insulating compounds.

- A. Support Frame Members: 6061-T6 aluminum.
- B. Closure panels: .040" nominal thickness 3004 aluminum sheet, Reynolds V-beam sheet stucco embossed, or equal.
- C. Fasteners: 7075-T73 aluminum or Series 300 stainless steel.
- D. Sealant: Silicone, Pecora, GE Silpruf, or equal.
- E. Expansion Anchor Bolts: Series 300 stainless steel.
- F. Dormers, doors, vents and hatches shall be 6061-T6, 5086-H34 aluminum; .090" nominal thickness.

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G. Columns: Reinforced concrete, steel, or stainless steel as specified in the drawings.

4. DESIGN LOADING

The support frame and skin shall be designed in accordance with the "Specifications for Aluminum Structures" as published by the Aluminum Association and designed for full dead load plus the live load conditions as specified by the applicable local Building Code.

5. FABRICATION AND ERECTION

Vendor shall perform the work described herein with mechanics skilled and experienced in the fabrication and erection of aluminum structures. The cover shall be constructed plumb, level, and in proper alignment.

6. QUALIFICATION TO BID

No equipment shall be supplied from any manufacturer not regularly engaged in the manufacturing and production of equipment of the size and character herein specified. The manufacturer must have installed and had in satisfactory use for a period of not less than five years, at least one enclosure of size and type comparable to the unit specified, and shall submit evidence of such manufacture and operation with his bid proposal and/or pre-bid submittal.

Bids from manufacturers lacking the experience requirement will be considered if the manufacturer provides a five-year Performance Bond in lieu of evidence of experience and operation. Proof of the ability to provide said bond shall be submitted with his bid proposal and/or pre-bid submittal. The bond shall guarantee satisfactory operation as defined by the technical specifications. The bond shall state that the manufacturer shall, in case of unsatisfactory service, remedy the problem within thirty (30) days after written notification, or, at the Owner's option, replace the enclosures or forfeit the bond. The bonding period shall commence upon written acceptance by the Owner of the installed equipment and all appurtenances and final acceptance of the General Contract.

The enclosure shall be manufactured by Temcor of Gardena, California, (800-421-2263) or an approved equal.

7. SHOP DRAWINGS AND DESIGN CALCULATIONS

Before executing any of the work in this section, prints or drawings shall be submitted to the engineer showing dimensions, sizes, thickness, gauges, materials, finishes, and joint

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attachment and erection procedure. A complete set of design calculations for the enclosure specified shall also be submitted. These calculations shall be signed by a registered professional engineer. All work shall be fabricated and erected in accordance with fabricator/erector drawings.

8. GUARANTEE

The enclosure shall be guaranteed for a period of one (1) year against defective materials and construction.

10/09/01