

FLAT COVER SPECIFICATION

1. GENERAL

This specification covers the design, fabrication and erection of the aluminum flat cover with all appurtenances as indicated on the contract drawings and in conformance with the following specifications:

2. SCOPE

The flat cover fabricator/erector shall furnish all labor, materials and equipment to completely design, fabricate, deliver and erect the aluminum flat cover structures(s).

3. DESIGN & MATERIALS

The flat cover(s) shall conform to the specified dimensions. The flat cover(s) shall be clear-span and designed to be self-supporting from the periphery curbs. Full provisions shall be made to allow for thermal expansion.

The flat cover deadweight shall not exceed 150 lbs. per removable module. Each module shall be easy to remove and the lifting force shall not exceed the dead weight of the module. The flat cover surface paneling shall be designed as a relatively airtight system under the specified design loading conditions. Dissimilar materials shall be separated from each other through the use of approved gaskets or coatings.

- A. Formed panels: .090" nominal thick 5052-H36 or 6061-T6 aluminum sheet.
- B. Extrusions: 6061-T6 aluminum.
- C. Fasteners: aluminum or 300 series stainless steel.
- D. Sealant: Silicone by Pecora, General Electric or equal.
- E. Gaskets: Silicone Rubber, Hypalon or equal.
- F. Expansion Anchor Bolts: Series 300 stainless steel.

Flat Cover Specification

4. DESIGN LOADING

The flat cover 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 live load in accordance with the Uniform Building Code latest edition as applicable for this location. Flat cover deflection shall be less than or equal to $L/120$ under total dead and live load conditions.

5. FABRICATION & ERECTION

All work shall be executed by mechanics skilled and experienced in the fabrication and the erection of aluminum structures. The flat cover shall be erected plumb and level and in proper alignment by the flat cover fabricator using highly skilled mechanics.

6. 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, thicknesses, gauges, materials, finishes and attachment and erection procedure. A complete set of design calculations for the flat cover 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.

7. 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.

Flat Cover Specification

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

8. GUARANTEE

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

10/09/01