

Trough Tray Specification

PART 1 - GENERAL

1.10 REFERENCE STANDARDS:

- A. Cable Tray shall be manufactured and tested per one or more of the following: Underwriter's Laboratories, Inc, CSA, ETL, and NEMA.

1.20 DESCRIPTION:

- A. Complete assembly of steel or aluminum (*select one*) cable tray system and necessary accessories shall be provided as shown on plans. Install entire cable tray system in accordance with all local governing codes.

1.30 SUBMITTALS:

- A. Submittal drawings, in the form of 8 ½" x 11" catalog cut sheets, shall be provided for the following items: cable trays, fittings, accessories and load data.

PART 2 - PRODUCTS

2.10 MATERIALS (*SELECT "A or B"*)

- A. Steel Trough Tray shall be manufactured from Galvanized Steel, G90 or equal.
- B. Aluminum Trough Tray shall be manufactured of 5000 Series aluminum alloy.

2.20 Solid Trough Tray

- A. Steel and Aluminum Trough Tray shall be constructed of a single formed sheet of material, incorporating internal flanges of 7/8"W x ½"H. Each tray length shall possess four holes per end for the connection of a splice connector or other accessories. The Trough Tray shall be 120" in length at widths and heights as shown on plans.

2.30 FITTINGS

- A. Splice Connectors - Steel or Aluminum (*select one*). Sections of Trough Tray and all other fittings shall be joined by using U-Splice connectors. The U-Splice connector shall be U-shaped, and shall nest around the exterior of the tray. Each U-Splice shall be attached utilizing eight 3/8" Hex Bolts and Flange nuts. U-Splices shall allow for thermal expansion of tray.
- B. Tray Covers - Steel or Aluminum (*select one*), as well as other accessories shall be constructed of compatible material and design. Covers shall be field installed and rigidly secured by means of self tapping screws. Covers shall be solid or louvered (*select one*).

2.50 SUPPORTS

- A. Each Steel or Aluminum (*select one*). Trough Tray section shall be supported on maximum 10 foot centers, (3.0 meters) in Canada, by two .50 inch (12mm) pieces of threaded rod which attach to an appropriately sized trapeze system supporting the tray. All mounting and trapeze materials shall be furnished and installed by others.

2.60 OPTIONAL PAINTED FINISHES

- A. Optional powder coated painted finish to be applied to the outer surfaces of the cable tray and associated components. Prior to the application of the powder coat all surfaces shall be cleaned and have an iron phosphate film applied. The color shall be _____.

PART 3 - MANUFACTURER

3.10 MANUFACTURER

- A. Company specializing in manufacturing products specified in this section must have a minimum of ten years documented experience. The cable tray and fittings shall be manufactured by: **Mono-Systems, Inc.**, 4 International Drive, Rye Brook New York 10573. (TEL) 914-934-2075 (FAX) 914-934-2190.