

CHANNEL TRAY SPECIFICATION

SECTION 1- ACCEPTABLE MANUFACTURERS

- 1.01 Manufacturer: Subject to compliance with these specifications, channel tray systems shall be as manufactured by MonoSystems, Inc., 4 International Dr., Rye Brook, NY 10573, Tel: 914-934-2075, www.monosystems.com
- 1.02 References:
- A. ANSI/NFPA70 - NEC
- 1.03 Quality assurance:
- A. Manufacturer engaged in the fabrication of cable trays and fittings for not less than 5 years.
 - B. UL Compliance: Products are UL classified - (FILE: E80034 VOLUME 3)
 - C. NEMA Compliance: Comply with NEMA Standard VE1-2
 - D. NEC Compliance: Comply with NEC Article 392
 - E. NFPA Compliance: Comply with NFPA 70B.

SECTION 2- SELECTION AND COMPONENTS

- 2.01 Channel tray shall be available in two styles: Solid bottom and Ventliated. A complete offering of accessories, fittings, and connectors is to be complete and available for both styles and in all marketed sizes such to create a complete system. Channel tray shall be free of burrs and sharp edges.
- 2.02 Materials and finishes: Material and finishes specifications for each channel tray are as follows:
- 1. Aluminum: Extruded components shall be made from Aluminum Association Alloy 6063. All fabricated parts shall be made from Aluminum Association Alloy 5052.
 - 2. Pre-Galvanized Steel: Straight sections and fittings shall be made from structural quality mill galvanized 14 gauge steel meeting the properties of ASTM A653SS, coating designation G90.
 - 3. Hot Dip Galvanized Steel: Straight sections and fittings shall be made from 14 gauge structural quality steel meeting the minimum mechanical properties of ASTM A1011 SS, Grade 33 and shall be hot-dip galvanized after fabrication in accordance with ASTM A123.
 - 4. Stainless Steel: Straight sections and fittings shall be AISI Type [304] [316].
- 2.03 Channel tray straight sections shall be constructed with either solid flat bottoms, or ventilated flat bottom. Ventilated bottom shall be perforated with 2.25" diameter holes and have slots to facilitate the use of cable ties to secure the cables.
- 2.04 Straight sections shall be supplied in standard [12 foot] [10 foot (3 m)] lengths, except where shorter lengths are permitted to facilitate tray assembly as shown on drawings.
- 2.05 Ventilated straight sections shall have splice holes every 12 inches to simplify field modifications.
- 2.06 Channel Tray width shall be [3] [4] [6] inches with a minimum loading depth of 1-1/4".
- 2.07 Fittings will have a minimum radius of [12] [24] [36] [48] inches.
- 2.08 Splice plates and hardware shall be included with each straight section and fitting.
- 2.09 Recommended Torque for 3/8" Channel Tray Fastener hardware: 25-35 Ft-lbs [33.9-47.5 N-m].

