

MATERIAL SPECIFICATIONS and GENERAL INFORMATION

I. CHANNEL

- 1. General** - Flex-Strut channels are manufactured by Roll-Forming strip steel into channel configurations.
- 2. Material** - Cold Roll ASTM A-366
Pre-Galvanized ASTM A-653
Hot-Roll ASTM A-569
(Meets the physical requirements of Grade 33)
- 3. Design** - Design tables are based on AISI "Specification for the Design of Cold-Formed Steel Structural Member".
- 4. Welding** - Channel combinations are made by spot welding or plug welding. Weld spacing is three inches (3") on center.
- 5. Finishes** - Channels are available in **Plain, Pre-Galvanized and Green**. Some channels are available in Aluminum, Stainless Steel, Hot-Dipped Galvanized After Fabrication, Fiberglass, and PVC Coated. Custom colors are available upon request
- 6. Load Reduction** - Values in Load Tables should be reduced for fabricated channels. Use 90% of published values for Slotted (SL), Short Slot (SS), Holes (H) and Knock-out (KO).

II. CHANNEL NUTS

- 1. General** - Flex-Strut channel nuts are stamped from steel bar and case hardened after forming and tapping.
- 2. Material** - Bar used to manufacture channel nuts conforms to ASTM A-575 or A-576.
- 5. Finish** - Electro-galvanized (E/G) zinc per ASTM B-633.
Aluminum, Stainless Steel and Fiberglass nuts are available in some sizes.

III. FITTINGS

- 1. General** - Flex-Strut fittings are manufactured by punching and cold forming steel for specific channel connection applications. Typical fittings are 1/4" thick and 1-5/8" wide. Typical holes are 9/16" diameter, 1-7/8" on center and 13/16" from ends.
- 2. Material** - Bar used to manufacture fittings conforms to ASTM A-569 or A-575.
- 3. Finish** - Electro-galvanized (E/G) zinc per ASTM B-633.
Some fittings are available in Aluminum, Stainless Steel and Fiberglass.

Flex-Strut reserves the right to change design specifications without notice.