

## Bulk Storage Specifications

**Materials:** Bulk Storage Units as well as all Tennsco products are fabricated of high quality, cold rolled carbon steel, free of scale or rust and fully pickled. Exposed edges, corners and surface areas are free of sharp edges and all workmanship is of the highest quality as measured by the industry.

**Finish:** All steel components shall be thoroughly cleaned and phosphatized for rust resistance in a five-stage pre-treatment process. A high grade of polyester/epoxy powder paint is to be applied electrostatically with a gloss reading of between 55 and 65. The finish shall have a salt spray rating of 250 hours or more.

**Upright Assemblies (Single Upright):** Consist of two parallel upright posts joined by a truss like arrangement of channels; Mig welded into the opposite slots of the posts. Each post has a footplate with a  $\frac{9}{16}$ " hole for floor mounting. Entire assembly is painted. The upright is rolled from 14 gauge cold rolled steel into a  $1\frac{3}{4}$ " square with three solid sides and one side with a  $\frac{27}{32}$ " slot along its length, for the above channels. The side opposite the slot has holes for the box beam fingers on 2" centers along the entire length. The two other sides have  $\frac{7}{16}$ " x  $\frac{9}{16}$ " holes on 1" centers along the entire length. The connecting channels are formed from 14 gauge steel,  $\frac{27}{32}$ " wide x 1" deep. The footplate is  $2\frac{1}{4}$ " wide x  $3\frac{1}{2}$ " long stamped from 11 gauge steel with a  $\frac{9}{16}$ " floor mounting hole.

**Box Beam:** The box beams are constructed of 14 gauge steel

formed into a channel formation with the front face  $3\frac{1}{4}$ " tall and top and bottom flanges 1" deep. The beam has pairs of interior shoulder rivets that accept SDS-XXB Front to Back Deck Supports.

**Beam Ends:** 11 gauge beam ends are welded on either end of the beam for attaching to uprights. Each beam end has 3 fingers that engage post for rigid connection.

**Front To Back Shelf Deck Support (SDS-XXB):** The front to back shelf deck supports are constructed of 14-gauge steel formed to fit from front to back between two BHC-XX BEAMS. The SDS-XXB shall give the shelf intermediate support.

**Plywood Beam:** Consists of a beam and two end plates, same as the above box beam. The new plywood beam has a Z shaped cross-section with a  $\frac{23}{32}$ " wood retainer flange on top of the Z. The beam is  $1\frac{3}{8}$ " wide x  $3\frac{41}{64}$ " high and is formed from 14-gauge steel. It has  $\frac{1}{4}$ " x  $1\frac{1}{8}$ " slots on the top of the Z, along its length, for bulk plywood supports.

**Plywood Support Angle:** This angle is made from 14 gauge steel. Its purpose is to support the plywood between the supporting box beams. It is  $1\frac{59}{64}$ " high x  $1\frac{1}{16}$ " wide. The ends of the angle have a vertical tab, which fit into the  $\frac{1}{4}$ " x  $1\frac{1}{8}$ " slots along the length of the plywood beams.