

## **Bulk Storage Specifications**

**Material:** 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):** Consists 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  $\frac{9}{16}$ " 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 it's 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.

**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.

**Particleboard Decking (PB-XXXX):** The particleboard decking shall be  $\frac{5}{8}$ " medium density (45#) industrial grade particleboard decking. The decking shall be installed without use of nuts or bolts.

**Wire Decking (ZWD-XXXX):** The wire decking uses 5-gauge cold rolled carbon steel wire to create a 2" x 4" grid. Bottom wires, running the width of the deck, are positioned 2" apart on the center. Top wires are positioned perpendicular to the bottom wires on 4" centers. At every intersection, the wires are resistance welded. The wire decking is trimmed to nominal dimensions and powder coated.

**Steel Decking:** Corrugated Steel Decking (BSD-XXXX) is constructed of high quality steel in a width of  $12\frac{5}{8}$ " and depths of 24", 30", 36", and 48". The  $12\frac{9}{16}$ " x XX" Deck is ganged together to be used on 48", 60", 72", and 96" shelf levels. Decking is formed with  $\frac{53}{64}$ " offset channels spaced  $2\frac{31}{32}$ " apart for strength.