

## Q-Line Shelving Specifications

**Materials:** Q-Line shelves 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.

**Shelves:** Shelves shall be constructed of 20 or 22 ga. steel with full welded "BOX" formation in front and back of shelf and shall have formed channels on both ends. All corners shall be fully lapped and welded at two points in each corner. The "BOX" formation shall be welded on a minimum of 3" centers, the entire length of the box. All shelves shall have a profile height of 1 5/16". Shelves shall be designed to allow for use of shelf clips or to allow shelf to be bolted to uprights.

**Perforated Shelf:** The perforated shelves are constructed of the same material and have the same construction as the standard Q and Q2 shelves. The interior of the shelves are perforated with 0.375" diameter holes on 0.3" horizontal offset centers and 0.36" vertical offset centers. The water flow through for the perforated area is 51%. This is only for the perforated area not the total surface. The box form is considered a structural component and does not require perforation.

**End Upright:** End upright shall be constructed of 14 ga. steel, formed into an angle formation with one leg of the angle being 1" and the other leg being 1 7/8". The 1 7/8" leg shall have 1/2" deep offset with square slots to accept the shelf clips and to allow shelves to fit flush with the post face. Each face shall have holes to allow shelves to be bolted into place on either leg of post. Shelves

are adjustable on 1" centers using either bolts or shelf clips.

**Heavy Beaded Post:** Heavy beaded post shall be constructed of 14 ga. steel formed into a hollow "T" formation with a profile of 2 13/16" deep. The post shall be designed in such a manner that allows the shelf clip to recess into the post, allowing the shelf to sit flush with the post. Shelf shall have a recess with slots, in the recess, to accept shelf clip. The post shall have holes to allow shelf to be bolted to upright. Shelf shall be adjustable on 1" centers using either bolts or shelf clips.

**Shelf Clip:** Shelf clip shall be constructed of 13 ga. steel formed into a channel with two hooks to engage upright. Hooks on clip shall be a minimum of 3/8" wide and must engage into post a minimum of 1/4". Shelf clip shall engage upright post at two points and hooks shall be on 1" centers or more to give added strength and rigidity. Shelf clip shall be plated with a durable coating to give extra life to clip.

**End & Back Panels:** Panels shall be formed of 24 ga. steel.

**Sway Braces:** Sway braces are of 11 ga. steel, installed to form an "X" on both end and sides and shall be adjustable on 1" centers.

**BX Shelf Boxes:** Tennsco Shelf Boxes are constructed from 22 gauge commercial quality steel. The boxes are made up of a front, rear and body. The front has an integrated handle with radiused corners. It is equipped with lanced forms that will accept a label. The front has rear facing lances on the sides and bottom that overlap the body for resistance welds. The rear is formed the same with the exception of the integrated handle. The body is formed into a "U" with the top edges hemmed. The sides have an inward formed 1 1/4" channel. The channel makes the assembly more ridged and is slotted for optional dividers.