

NCE Main Building
Section 10 22 13 Specifications Comparison

| Section | Specification | WireCrafters Style 840 | Comment | Meets Spec |
|----------------|---|---|--|-------------------------------|
| 2.1.2 | Cold-Formed Steel | Hot Rolled Angle Frame, Cold Formed Wire | Cold Formed vs. Structural Hot Rolled finish, result is a minor difference in appearance. | Equal |
| 2.1.3 | Carbon Steel wire, woven diamond mesh, intermediate crimped | Carbon steel wire, woven square mesh intermediate crimped | Diamond vs. Square mesh, minor difference in appearance, same open area, same steel. | Equal |
| 2.1.4 | Cast or forged steel or ductile iron, adjustable approximately 2-1/2" high. | Floor mounting plate welded to vertical post. | Floor mounting plates welded to posts yields superior partition strength through elimination of pivot point at floor. | WireCrafters Superior to Spec |
| 2.2.1 | 6 gauge wire, 2 inch mesh | 6 gauge wire, 2 inch mesh | No difference | Equal |
| 2.2.2 | Panel Frames 1-1/2 x 3/4 x 3/4 x 1/8 steel channels | Panel frames 1-1/2 x 1-1/2 x 1/8 steel angle | No difference, same amount of steel in each frame (3" x 1/8" thickness), angle provides better access for mounting panels to vertical posts. | Equal |
| 2.2.3 | Center reinforcement bar 1-1/2 x 3/4 x 1/8 with wires woven through or tow channels bolted together | Center reinforcement bar of 1/4" x 3/4" steel flat securely welded to frame and mesh. | Channel vs. Flat mesh reinforcement, more steel with the channel, more secure with flat welded into frame. | Equal |
| 2.2.4 | Capping Bar 3 x 4.1 # | No capping bar needed. | Capping Bar not necessary with WireCrafters due to better rigidity of entire partition system. | Does not meet Spec |
| 2.2.5 | Corner Posts 1-3/4 x 1-3/4 x 1/8 HR Structural Angle | Corner Posts 2" x 2" x 14ga Cold Rolled structural grade A513-08 steel tubing | Angle Iron corner posts vs. Tubular Posts, steel tubing has far superior strength and provides a better finished look for the partition. | WireCrafters Superior to Spec |
| 2.2.6 | Line posts: Steel Flat bar 2-1/2 x 5/16 for 7' - 12' heights, 3 x 5/16 for 12' - 16' heights; 3-1/2 x 5/16 for 16' - 20' heights | Line posts: 2" x 2" x 14ga Steel tubing on 10' 2" maximum centers for 7' - 15' heights, taller partitions use 6" x 2" x 3/16" tubing | Tube line posts are integrated into the WireCrafters system on maximum 10' 2" centers, and connect to each panel, providing better strength and rigidity. | WireCrafters Superior to Spec |
| 2.2.7 | Hinged Doors framed in 1-1/2 x 3/4 x 1/8 channel with 1-1/2 x 1/8 flat bar covering top and bottom with 1-5/8 x 7/8 x 1/8 angle riveted to the lock stile. Provide 1 1/2 pairs of heavy weight wrought steel non-removable pin butt hinges welded to door and door opening frame. | Hinge doors framed in 1-1/2 x 1-1/2 x 1/8 steel angle on all 4 sides with mesh securely welded into frame. Each door has three 10 gauge 5 knuckle spun pin butt hinges. | Channel vs. Angle frame, same amount of steel in each, WireCrafters offers superior all welded construction over riveted and clinched construction. | WireCrafters Superior to Spec |
| 2.3 | Door Opening Frames of the same size and shape as the vertical frames for the mesh panels | Door Opening Frames sized to match doors specified, with mesh transom over hinged doors, and tube posts as the uprights, no obstruction at floor level | Specific door frames are not needed with the WireCrafters system as door are mounted to the steel post uprights with wire mesh transoms placed above hinged doors. | WireCrafters Superior to Spec |

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| 2.4 | Locks: Mortise type lock with six-pin tumbler lock cylinder on outside and recessed knob inside | Mortise type lock with six-pin tumbler lock cylinder on outside and recessed knob inside | No difference | Equal |
| 2.5.1 | Standard Panels: Wire shall be woven into diamond mesh, intermediate crimped and securely clinched to frames. Joints shall be mortised and tenoned. Wire shall be continuous at center reinforcing bars, either woven through a single channel or bolted between two channels. Panel vertical frames shall have 3/8 bolt holes 18 inches o.c. for heavy duty partitions | Standard Panels: Wire shall be woven into square mesh, intermediate crimped and securely welded to frame. Joints in the frame shall be securely welded together. Wire shall be continuous at center reinforcing bars, and shall be welded to flat stiffener at its midpoint. Panel frames shall have 7/8" x 7/16" obround holes for mounting to posts and adjacent panels, | Clinched construction vs. Welded construction, WireCrafters offers all welded panel construction for superior strength. | WireCrafters Superior to Spec |
| 2.5.2 | Sheet Metal Base Panels: Upper portion shall be specified for standard panels, except that the wire shall be clinched into the center reinforcing bar. Form sheet steel to fit between the panel frames and securely bolt to the frames. | Sheet Metal Base Panels shall be 16ga sheet steel securely welded into a 1-1/2" x 1-1/2" x 1/8" steel angle frame, securely bolted to upright posts and adjacent panels. | Specification calls for sheet metal to be bolted into wire panel, where WireCrafters offers a separate sheet metal panel designed to fit into the overall system providing a much better finished look. | WireCrafters Superior to Spec |
| 2.5.3 | Doors and Service Windows: Construction shall be similar to that specified for panels. Wire mesh shall be the same as that used in adjacent partition panels. | Doors and Service Windows: Construction shall be similar to that specified for panels. Wire mesh shall be the same as that used in adjacent partition panels. | No difference | Equal |
| 2.5.4 | Finish: Thoroughly clean ferrous metal, treat with phosphate, and paint with gray enamel in the shop. | Thoroughly clean ferrous metal, shot blast if required, and paint with gray enamel in the shop. | Phosphate cleaning vs. shot blast, same result, however blasting is much more environmentally friendly. | Equal |
| | Assembly Hardware 1/4" accessible from both sides of partition. | Assembly Hardware 3/8" Not accessible from exterior of partition. | WireCrafters offers heavier assembly hardware that cannot be access from the exterior side of the partition. | WireCrafters Superior to Spec |