BCI General Specifications

Design: BCI Lecture Softline Shelving System

SH7.0 General

SH7.0.1 All finished surfaces shall be free of scratches, marks, dents or blemishes, and exhibit no flaking, cracking or loss or adhesion.

SH7.0.2 Shelving shall have smooth finishes with non-hazardous projections, sharp corners or detail which can be hazardous and cause personal injury or damage to clothing.

SH7.0.3 The use of transverse top-tie bracing, floor anchors, wall mounts, sway bracing, or any other added structural apparatus is prohibited.

SH7.1 Specific

SH7.1.1 Wood and steel shelving shall be of a full panel design with structural back panels or a steel perimeter frame, both providing maximum rigidity and minimizing stack movement.

SH7.1.2 In addition to any warranty implied by fact or law, the Bidder expressly warrants all items to be new, free from defects in design, materials and workmanship, and be fit and sufficient for intended purpose. Any sample or model, which is submitted, shall create an express warranty that the whole of the goods shall conform to the sample or model.

SH7.1.3 All steel components shall be rendered residue-free and covered with an electrostatically-applied, thermo-hardened, polyester powder paint that is 50 – 60 microns thick.

SH7.1.4 All steel components shall be available in nine standard colors, 160 non-standard colors and custom color match by NCS color system.

SH7.1.5 Finish test results shall be submitted for evaluation.

SH7.2 End and Intermediate Panels

SH7.2.1 Beech wood end/intermediate panels shall be constructed from 23 mm (15/16" +) 3-ply particleboard, which is beech wood veneered on both sides of the panel with solid 3/8" beech wood edge banding with either a straight or radius edge.

SH7.2.2 The beech wood shall be treated twice with a non-reflective, acid-hardened lacquer, which ensures durability and the beauty of natural wood.

SH7.2.3 Beech wood end/intermediate panels shall be an integral part of the systems construction with little or no deflection once the shelving is loaded and leveled.

SH7.2.4 All end and intermediate panels shall have steel sleeves for the connection of the wood back panels.

SH7.2.5 Each panel shall have two 1" diameter leveling guides that allow 1"+/- leveling capacity.

SH7.3 Back Panels

SH7.3.1 Beech wood back panels shall be constructed from 16 mm (5/8" +) 3-ply particleboard, which is beech wood veneered on both sides of the panel with solid beech wood edge banding.

SH7.3.2 The beech wood shall be treated twice with a non-reflective, acid-hardened lacquer, which ensures durability and the beauty of natural wood.

SH7.3.3 Beech wood back panels shall be equipped with cam lock fasteners for fastening the end / intermediate panels securely to the back panels.

SH7.4 Alternative Steel Frame Work

SH7.4.1 The alternative steel back frame shall be constructed from 16-gauge steel tube measuring 1-1/8" x 9/16" square with pre-welded steel plates located at the appropriate end / intermediate panel connections.

SH7.4.2 The steel frame shall be a one-part assembly with a perimeter frame that extends approximately 36" above finished floor.

SH7.5 Bases

SH7.5.1 The bases shall be constructed from 16 mm (5/8" +) 3-ply particleboard, which is covered with beech wood veneer, or 1/8" solid color-core linoleum on both sides.

SH7.5.2 The base plates shall have a solid beech wood top-edge stabilizer measuring 3/4" x 1/2".

SH7.5.3 When installed the base shall be recessed approximately 2" from the front edge of the shelving.

SH7.5.4 Every base will include two wire supports which secure the base to the end / intermediate panels.

SH7.5.5 The wood-shelving base shall be available in the following heights: 5" or 12.5/8” above finished floor.

SH7.6 Shelf Resting Pins

SH7.6.1 All component pins shall be constructed from steel platform dowels that provide a solid but unobstructed flat shelf.

SH7.7 Shelves and Canopy Tops

SH7.7.1 Shelves and canopy tops shall be #19 gauge steel that includes six 90-degree bends.

SH7.7.2 Shelves and canopy top back edge shall have a “U” bend to allow for the integration of a clear acrylic back edge.

SH7.7.3 All shelves shall support book loads of 75 pounds per square foot without deflection in excess of 3/16".

SH7.7.4 All shelf dimensions specified are actual and not nominal.

SH7.7.5 The front and back edge of the shelf shall be a box formation with a 1" high, tri-fold 90-degree bend.

SH7.7.6 All standard shelves shall be equipped with one suspended sliding book supports.

SH7.7.7 Shelf ends shall be formed down 11/16" to engage shelf-resting pins.

SH7.7.8 A transparent acrylic label holder measuring 1" high x 9" wide shall be offered optionally as an individual shelf sign.

SH7.8 Suspended Book Support

SH7.8.1 The suspended book support shall be constructed from ribbon steel plate measuring 3/8” wide with nylon runners to suspend from the underside of any shelf.

SH7.8.2 Available dimensions shall be as follows: 8" high and 10” high.

SH7.9 Right-Angle Book Support

SH7.9.1 The right-angle book support shall be constructed from a powder coated, 18-gauge steel plate bend at a 90-degree angle.

SH7.9.2 Available dimensions shall be as follows: 6" high x 6" wide x 6" deep.

SH7.10 Divided Reference Shelves

SH7.10.1 Shelves shall be of #19 gauge steel plate. All shelves shall support book loads of 75 pounds per square foot without deflection in excess of 3/16".

SH7.10.2 All shelf dimensions specified are actual and not nominal.

SH7.10.3 The front edge of the shelf shall be a box formation with a 1" dimension. The rear edge of all standard shelves shall be upturned 6-13/16" forming a built-in shelf backstop.

SH7.10.4 The back edge shall have two slots, and the shelf surface shall have one slot to accommodate each divider plate. The unit shall have nineteen positions available for the divider plates. The shelf shall have the capability of being divided equally into two, three, four, five and eighteen compartments or as needed by using a combination of the available slots.

SH7.11 Pull-out Reference Shelf

SH7.11.1 Shelves shall be of #19 gauge steel plate.

SH7.11.2 All shelf dimensions specified are actual and not nominal. The pullout shelf should fully extend the total depth of the shelf.

SH7.11.3 The front edge of the shelf shall be a box formation with a 1" dimension. The rear edge of all pullout shelves shall be without an upturned back edge.

SH7.11.4 Shelves shall have a 1-7/16" long x 3/8" wide notch cut at each end of the back of the shelf to accommodate a ball-bearing glide mechanism that the shelf rides on.

SH7.11.5 Shelves shall have 1-3/16" diameter x 11/16" long socket spacers (two at each end) located 1-3/4" from the ends; 3/4" from the back; and a 4-9/16" from the front of the shelf.

SH7.11.6 Ball-bearing glides shall be mounted to two socket spacers with 5/16" 32 x 1/4" long UNEF screws, with the plate to shelf length 9-7/16" wide, bent up on back long edge, and heavily spot welded to 3" high plate brackets.

SH7.12 Paperback / Video Shelves

SH7.12.1 Shelves shall be of #19 gauge steel plate.

SH7.12.2 All shelf dimensions specified are actual and not nominal.

SH7.12.3 The shelf shall be one piece, one tier accordion fold shelving.

SH7.12.4 Front and top edges shall be U-bent for stability. Front edge of shelf shall be a box formation with a 1" dimension.

SH7.12.5 Cross section of shelf shall slope towards the back at 79-degrees for a depth of 4-13/16", then bend 90-degrees for a height of 8", then bend 281-degrees for a depth of 1-9/16", and finally 90-degrees downward for 5/16".

SH7.12.6 Shelf surface shall be welded to side panels.

SH7.12.7 Paperback shelves shall accommodate media display by cover or title.

SH7.13 Zig-zag Display for Paperback/Video

SH7.13.1 Zig-zag display for paperbacks and/or videotapes shall be constructed from ¼" steel wire.

SH7.13.2 The zig-zag display shall include ten 90-degree bends with support bracing holding the 36" wide proportion.

SH7.13.3 The display shall rest upon a flat shelf or the paperback/video shelf.

SH7.13.4 Wires extend to the front edge of the shelf and are secured by wrapping around the front edge.

SH7.14 Browse Boxes

SH7.14.1 Browse Boxes should be constructed vertically of 16-gauge steel plate and horizontally of 19-gauge steel plate.

SH7.14.3 All browse boxes should offer visibility of the front media stored.

SH7.14.4 Partitions for the browse boxes shall individually separate the appropriate media stored.

SH7.14.6 Two basic models shall be available; the dimensions of these models are as follows:
8" high x 36" wide x 13" deep single-tier with one center partition for picture and oversized books.
8" high x 36" wide x 13" deep single-tier with three equally spaced partitions for various media.

SH7.15 Periodical Shelves

SH7.15.1 Shelves shall be of 19-gauge, steel plate with a 2"high front edge that forms a 90-degree bend for materials to rest on.

SH7.15.2 All shelf dimensions specified are actual and not nominal.

SH7.15.3 All Sloping shelves shall be available with 30-degree or 45-degree brackets.

SH7.15.4 Optionally, a transparent panel(s) can be supplied.

SH7.16 Tip-up Periodical Cabinets

SH7.16.1 Tip-up Periodical Cabinets shall be constructed vertically of 16-gauge steel plate, and horizontally constructed of 19-gauge steel plate.

SH7.16.2 The cabinet should include; a canopy top, bottom shelf which is either a flat shelf or divided shelf with three adjustable dividers equally spaced, a tip-up sloping display shelf, and side panels with appropriate mechanisms allowing full insertion of the display shelf into the cabinet.

SH7.16.3 Overall dimensions shall be 15-3/4" high x 36" wide x 15-3/4" deep, offering 12-1/4" high inside storage.

SH7.16.4 Optionally, a transparent panel(s) can be supplied.

SH7.17 Individual Clip-on Sign

SH7.17.1 The individual clip-on sign is molded flexible clear plastic that is 1” high x 9” long x 5/8” thick.

SH7.17.2 Each sign shall be supplied with a slip in paper label.

SH7.17.3 Each sign wraps around the front edge of the shelf and is secured by a 40-degree tension angle.

SH7.18 Caster Shelving Stand

SH7.18.1 The caster shelving stands are used together with the standard steel perimeter frames, which makes it possible for a starter and add-on double faced shelving unit to become mobile

SH7.18.2 The stand shall consist of a steel perimeter frame with casters and panel flanges to support the underside of the vertical end panels and laterally supporting and retaining the shelving unit width.

SH7.18.3 East starter stand includes two casters with brake and two casters without brake. The casters are grey rubber with an antistatic surface and each caster supports a maximum load of 170 pounds,