



BCI General Specifications
Design: BCI Gothia Shelving System

SH7.0 General Product Design and Construction

SH7.0.1 The shelving system is constructed with vertical frames connected by horizontal and diagonal supports, thus stabilizing the shelving longitudinally.

SH7.0.2 The shelving is available in single-faced and double-faced configurations.

SH7.0.3 Optional glass, perforated steel, or perforated wood end panels are available, thus providing a strong design statement.

SH7.0.4 The construction of this system shall be based on a starter/add-on concept.

SH7.1 General

SH7.1.1 All finished surfaces shall be free of scratches, mars, dents or blemishes, and exhibit no flaking, cracking or loss of adhesion.

SH7.1.2 Shelving shall have smooth finishes with no hazardous projections, sharp corners or detail which can be hazardous and cause personal injury or damage to clothing.

SH7.2 Specific

SH7.2.1 Steel shelving shall be of a welded perimeter frame design with structural units in the form of welded rectangular columns and solid galvanized steel members providing maximum column rigidity and minimizing stack movement.

SH7.2.2 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.

SH7.2.3 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.

SH7.2.4 All steel components shall be available in thirteen standard colors, 195 non-standard colors and custom color match by NCS color system.

SH7.2.5 Finish test results shall be submitted for evaluation.

SH7.2.6 All horizontal steel components shall have the capability of integration within any of BCI's other shelving systems including: Softline, Nordic, Artica, Expose, Basic, or Mediamix.

SH7.3 Vertical Intermediate and End Frames

SH7.3.1 The vertical frames shall be available with a one-sided connection for finished ends and a two-sided

connection for intermediate or dual use, so the immediate addition of sections is possible.

SH7.3.2 The intermediate and end frames shall be available in single-faced and double-faced models, with available heights in 48", 60", 71", and 82".

SH7.3.3 Steel shelving shall be of a welded three-post design with structural vertical frames in the form of rectangular columns measuring 1" (25 mm) x 1.5/8" (40 mm) cold rolled steel.

SH7.3.4 Each frame shall provide 1-1/4" (32 mm) component adjustment

SH7.3.5 The center post on the double-faced frame shall have a dual row of internal increments for component adjustment. The outer posts and single faced frame shall have a single row of internal increments for component adjustment.

SH7.3.5 Each frame shall be fitted with a leveling guide allowing a 1-1/8" +/- leveling capacity.

SH7.3.6 Wood accent strips shall be available to attach to the outer edges of the steel shelving frame

SH7.3.7 The vertical frames shall readily accept glass, perforated steel, wood end panel with painted steel fitting sets.

SH7.3.7 Horizontal stretchers shall be welded at the top and bottom of the vertical frames to support cross members and angled tension supports.

SH7.3.8 Each horizontal stretcher shall have a 5-3/16" perimeter bead weld at every connection point to the vertical frame.

SH7.4 Standard Module Widths

SH7.4.1 The standard module widths (center to center) are: 29" (742 mm) or 35" (892 mm).

SH7.5 Angled Tension Support

SH7.5.1 Every unit is supplied with cross-members, angled tension support that is produced from 1/4" solid galvanized steel, which provides maximum rigidity and minimizing stack movement.

SH7.5.2 The angled tension support shall be threaded and flanged and is secured to the vertical frames with bolts.

SH7.5.3 All units can have an optional perforated steel intermediate full back panel.

SH7.6 Component Brackets

SH7.6.1 All component brackets shall be constructed of 16-gauge steel and available in 8-7/8" and 10-3/4" actual depths.

SH7.6.2 Shelf brackets shall have two integral hooks.

SH7.6.3 Standard brackets shall be formed to 1" high, with 180 degree bending to support shelf/component end flange.

SH7.6.4 Single-sided brackets shall be free from unnecessary embossments and adornments and shall have no holes or perforations that shall preclude exposing the brackets as a finished product.

SH7.6.5 Shelf brackets for standard shelves with back edge shall be 1" high and the desired depth.

SH7.6.6 Stretcher suspension support shall be supplied to prevent books from slipping through the framework.

SH7.7 Canopy Tops

SH7.7.1 Canopy tops shall be 20-gauge solid steel.

SH7.8 Standard Shelves

SH7.8.1 Shelves shall be of 20-gauge steel plate. All shelves shall support book loads of 75 pounds per square foot without deflection in excess of 3/16".

SH7.8.2 All shelf dimensions specified are actual and not nominal.

SH7.8.3 The front edge of the shelf shall be a box formation with a 1" high, tri-fold 90-degree bend. The rear edge of all standard shelves shall be a removable 1-3/4" high clear acrylic back edge.

SH7.8.4 All standard shelves shall be equipped with one sliding book support that suspends from the shelf above.

SH7.8.5 Shelf ends shall be formed down 11/16" to engage shelf plate brackets.

SH7.8.7 A transparent acrylic label holder measuring 1" high x 9" wide shall be offered optionally as an individual shelf sign.

SH7.9 Suspended Book Support

SH7.9.1 The suspended book support shall be produced from ribbon steel plate and measures either 8" high or 10" high.

SH7.9.2 Each suspended book support shall engage with a track positioned under the shelf above. To enhance the glide performance, each book support end will have nylon fittings.

SH7.10 Book Support Braces

SH7.10.1 The book support braces shall be constructed from steel wire, which integrates into the shelving increments to support smaller media on flat shelves.

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 pull-out 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 13/16" 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 each long edge, and heavily spot-welded to 3" high plate brackets.

SH7.12 Mobile Periodical Display Shelf

SH7.12.1 Mobile periodical display shelves shall be molded from Lexan acrylic, which is scratch resistant and available in white only.

SH7.12.2 Mobile periodical display shelves dimensions shall be 3/16" thick x 10-1/4" high x 28-1/2" wide.

SH7.12.3 Mobile periodical display shelf shall have an incline of 60-degrees with a 90-degree, 1-1/2" lip for the material to rest on.

SH7.12.4 The mobile periodical display shelf shall rest upon a 36" wide x 10-3/4" deep or 30" wide x 10-3/4" deep standard steel flat shelf.

SH7.12.5 The mobile periodical display shelf shall be stackable for storage purposes.

SH7.13 Periodical Shelves

SH7.13.1 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.

SH7.13.2 All shelf dimensions specified are actual and not nominal.

SH7.13.3 Optionally, a transparent panel(s) can be supplied.

SH7.14 Perforated Steel Intermediate/Back Panels

SH7.14.1 Steel intermediate/back panels shall be constructed from 19-gauge, cold-rolled, perforated steel in widths appropriate to the shelving module width.

SH7.14.2 The steel intermediate/back panels shall interact between the vertical frames and take the place of the cross-members and angled tension supports.

SH7.15 Beech Wood End Panels

SH7.15.1 Beech wood end panels shall be constructed from 3-ply plywood with square perforations.

SH7.15.2 The beech wood shall be treated twice with a non-reflective, acid-hardened lacquer, which ensures durability and the beauty of natural wood.

SH7.15.3 Beech wood end panels shall install and secured at the top and bottom of the vertical frame with "J" shaped fittings that are slightly extended from the ends of the shelving, which gives the appearance of a floating panel.

SH7.16 Perforated Steel End Panels

SH7.16.1 End panels shall be 16-gauge, perforated steel with square perforated holes.

SH7.16.2 Perforated steel end panels shall install and secured at the top and bottom of the vertical frame with "J" shaped fittings that are slightly extended from the ends of the shelving, which gives the appearance of a floating panel.

SH7.17 Glass End Panels

SH7.17.1 The end panel is tempered glass that is chemically sandblasted and coated on one face.

SH7.17.2 Glass end panels shall install and secured at the top and bottom of the vertical frame with "J" shaped fittings that are extended from the ends of the shelving with cylinder fittings, which gives the appearance of a floating panel.

SH7.17 Overall Shelving Dimensions

SH7.17.1 Widths:	Starter Unit	Addon Unit	Component
30"	30.3/16" (76.7 cm)	29.1/4" (74.2 cm)	28.1/4" (71.7 cm)
36"	36.1/8" (91.7 cm)	35.1/8" (89.2 cm)	34.1/8" (89.7 cm)

SH7.17.2 Depths: Single Faced	Double Faced	Component
10.5/8" (27 cm)	19.1/2" (49.4 cm)	8.7/8" (22.1 cm)
12.11/16" (32.2 cm)	23.9/16" (59.8 cm)	10.3/4" (27.3 cm)

SH7.17.3 Available heights:	With Full Leveling Capacity	Without Leveling Capacity
48"	49.3/8" (125.3 cm)	48.3/4" (123.8 cm)
60"	61.3/16" (155.3 cm)	60.1/2" (153.8 cm)
72"	72" (182.8 cm)	71.3/8" (181.3 cm)
84"	82.7/8" (210.3 cm)	82.1/4" (208.8 cm)

SH7.18 Shelving / End of Range Components

SH7.18.1 Additional shelving components and end of range display components are available as standard and follow the above general construction details.