



BCI General Specifications  
Design: BCI Opal Shelving System

SH3.0 General Product Design and Construction

SH3.0.1 The shelving system is constructed with vertical frames connected by horizontal and diagonal supports, thus stabilizing the shelving longitudinally.

SH3.0.2 The shelving is available in single-faced and double-faced configurations.

SH3.0.3 Optional glass or perforated steel end panels are available, thus providing a strong design statement.

SH3.0.4 Optional the perforated steel canopy tops with or without lights are available, which also strengthen the design statement of the shelving system.

SH3.0.5 The construction of this system shall be based on a starter/add-on concept.

SH3.1 General

SH3.1.1 All finished surfaces shall be free of scratches, mars, dents or blemishes, and exhibit no flaking, cracking or loss of adhesion.

SH3.1.2 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.

SH3.2 Specific

SH3.2.1 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.

SH3.2.2 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.

SH3.2.3 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.

SH3.2.4 All steel components shall be available in twenty-eight standard colors, 195 non-standard colors and custom color match by NCS color system.

SH3.2.5 Finish test results shall be submitted for evaluation.

SH3.2.6 All horizontal steel components shall have the capability of integration within any of BCI's other shelving systems including: Paris, Oslo, System Arc, Cantilever, or Metis.

### SH3.3 Vertical Intermediate and End Frames

SH3.3.1 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.

SH3.3.2 The intermediate and end frames shall be available in single-faced and double-faced models, with available heights in 48", 60", 72", and 84".

SH3.3.3 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.

SH3.3.4 Each frame shall provide 1" (25 mm) component adjustment

SH3.3.5 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.

SH3.3.5 Each frame shall be fitted with a 2" diameter-leveling guide allowing a 1-1/8" +/- leveling capacity.

SH3.3.6 Casted plastic finishing caps will be provided if canopy tops are not utilized

SH3.3.7 The vertical frames shall readily accept glass, perforated steel, wood end panel with casted steel and rubber fitting sets.

SH3.3.7 Horizontal stretchers shall be welded at the top and bottom of the vertical frames to support cross members and angled tension supports.

SH3.3.8 Each horizontal stretcher shall have a 5-3/16" perimeter bead weld at every connection point to the vertical frame.

### SH3.4 Cross Members

SH3.4.1 All cross-members are constructed from .3/8" (10 mm) round galvanized steel that is 16 gauge (1.5 mm) thick, which is threaded for connection to the vertical frame.

SH3.4.2 All units shall have an upper and lower cross member or an alternate perforated steel intermediate back panel.

SH3.4.3 All cross-members are threaded and connection to the vertical frame shall be secured with a 1.3/8" long through bolt

SH3.4.4 The standard module widths are: 30" (750 mm), 36" (900 mm), and 39" (1000 mm).

### Sh3.5 Angled Tension Support

SH3.5.1 Combined with the cross-members, a single angled tension support that is produced from 1/4" (5 solid galvanized steel, is added periodically within a range of shelving which provides maximum rigidity and minimizing stack movement.

SH3.5.2 The angled tension support shall be threaded and secured (clockwise and counter clockwise) with an angled fitting attached to the vertical frame.

SH3.5.3 In general, the longer the range of shelving, the requirement for angled tension supports reduces. The following are minimum suggested quantities:

1 unit range = 2 angled tension support in a cross configuration

2 unit range = 2 angled tension supports, one placed at each range end.

3 unit range = 2 angled tension supports, one placed at each range end.

4 unit range = 2 angled tension supports, one placed at each range end.

5 unit range = 2 angled tension supports, one placed at each range end.

6 unit range = 2 angled tension supports, one placed in the second and fifth unit.

7 unit range = 4 angled tension supports, one placed in the second, third, fifth and sixth unit.

8 unit range = 4 angled tension supports, one placed in the second, third, sixth and seventh unit.

### SH3.6 Component Brackets

SH3.6.1 All component brackets shall be constructed of 16-gauge steel and available in 10", 12" and 15.3/4" actual depths.

SH3.6.2 Shelf brackets shall have two integral hooks.

SH3.6.3 Standard brackets shall be formed to 1" high, with 180 degree bending to support shelf/component end flange.

SH3.6.4 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.

SH3.6.5 Shelf brackets for standard shelves with back edge shall be 1" high and the desired depth.

SH3.6.6 Stretcher suspension support shall be supplied to prevent books from slipping through the framework.

### SH3.7 Canopy Tops

SH3.7.1 Canopy tops shall be #19 gauge steel and be either perforated or solid steel.

SH3.7.2 The perforated steel canopy tops shall be prepared with a 30 degree angled sign profile and/or light attachment.

### Sh3.8 Standard Shelves

SH3.8.1 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".

SH3.8.2 All shelf dimensions specified are actual and not nominal.

SH3.8.3 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 upturned 2", forming a built-in shelf backstop that has a 180-degree bend.

SH3.8.4 The upper edge of the shelf backstop shall be formed with a 3/8" high hemmed rail designed to accept a sliding, chromium plated, 1/4" diameter wire book support consisting of a nylon runner assembly and a 1/4" diameter chrome wire support.

SH3.8.5 All standard shelves shall be equipped with one sliding book supports.

SH3.8.6 Shelf ends shall be formed down 11/16" to engage shelf plate brackets.

SH3.8.7 A transparent acrylic label holder measuring 1" high x 9" wide shall be offered optionally as an individual shelf sign.

### SH3.9 Wood Shelf with Steel Back Edge

SH3.9.1 The wood shelf with back edge shall be constructed from 7/8" thick 3 ply European particle board with beech wood veneer on top and bottom and .5/8" solid beech wood banding on all edges.

SH3.9.2 The steel back edge shall be 2" high. The upper edge of the shelf backstop shall be formed with 3/8" high hemmed rail designed to accept a sliding, chromium plated, 1/4" diameter wire book support consisting of a nylon runner assembly and a 1/4" diameter chrome wire support.

SH3.9.3 All standard shelves shall be equipped with one sliding book supports.

### SH3.10 Back Edge Book Support

SH3.10.1 Back edge book supports shall be produced with 1/4" diameter chrome wire, with an attached highly durable, self-locking nylon fitting that connects to the 2" high shelf back lip.

SH3.10.2 Available dimensions shall be as follows:  
6" high x 9" deep, 6" high x 12" deep, 10" high x 12" deep.

### SH3.11 Front Edge Book Support

SH3.11.1 The front edge book support shall be constructed from a powder coated steel band that measures 1/2" with an attached highly durable, rubberized fitting that glides along the tri-bend front edge of any shelf.

SH3.11.2 Available dimensions shall be as follows:  
12" high x 9" deep, and 12" high x 12" deep.

### SH3.12 Right-Angle Book Support

SH3.12.1 The right-angle book support shall be constructed from a powder coated, 18-gauge steel plate bend at a 90-degree angle.

SH3.12.2 Available dimensions shall be as follows:  
6" high x 6" wide x 6" deep.

### SH3.13 Book Support Braces

SH3.13.1 The book support braces shall be constructed from chromium plated wire, which integrates into the shelving increments to support smaller media on flat shelves.

SH3.13.2 Available dimensions shall be as follows:  
9" frame depth and 12" frame depth.

### SH3.14 Wire Display Supports

SH3.14.1 The wire display supports shall be constructed from chromium plated wire, which integrates into the pre-drilled holes of the perforated corner shelves.

SH3.14.2 The wire display supports shall be available in two sizes: 6" x 6" and 3" x 3", thus providing a stop and support for displayed media or divided areas.

### SH3.15 Universal Shelves

SH3.15.1 Shelves shall be of #19 gauge steel plate with perforated holes and thumbnut and bolts for easy re-positioning of adjustable back edge.

SH3.15.2 All universal shelf dimensions specified are actual and not nominal.

SH3.15.3 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 universal shelves shall be upturned 2", forming a built-in shelf backstop that has a 180-degree bend. The additional back edge strip can be adjusted for different size medias.

SH3.15.4 The additional back edge strip can be adjusted for different size medias varying from 5", 6", 7", 8", 10", and 11".

SH3.15.5 The upper edge of the shelf backstop shall be formed with a 3/8" high hemmed rail designed to accept a sliding, chromium plated, 1/4" diameter wire book support consisting of a nylon runner assembly and a 1/4" diameter chrome wire support.

SH3.15.6 Shelf ends shall be formed down 11/16" to engage shelf plate brackets.

SH3.15.7 A transparent acrylic label holder measuring 1" high x 9" wide shall be offered optionally as an individual shelf sign.

SH3.15.8 Available depths shall be 9" and 12" actual.

### SH3.16 Combination Universal Shelf

SH3.16.1 Shelves shall be of #19 gauge steel plate with perforated holes for individual adjustable back edge strips and slots for adjustable dividers. This shelf shall allow storage of videotapes, cassette tapes, compact disc's, etc. within the same desired space and shelf.

SH3.16.2 All shelf dimensions specified are actual and not nominal. Overall depth = 9".

SH3.16.3 The front edge of the shelf shall be a box formation with a 1" dimension. The rear edge of all combination universal shelves shall be upturned 5" forming a built-in shelf backstop.

SH3.16.4 The back edge shall have two slots, and the shelf surface shall have one slot to accommodate each divider plate. The unit shall have several positions available for the divider plates that relate to the available widths of the back edge plates.

SH3.16.5 Slots shall be punched 11/16" long x 5/64" wide, vertically on the back edge, and from front to back on the shelf surface. The two rows of slots in the back edge shall be centered at 1-13/16" and 3-23/32" from the shelf surface respectively. The slots in the shelf surface shall be centered a 1-3/16" from the front edge of the shelf.

SH3.16.6 Each divider shall be the same specified depth as the shelf and shall be equipped with two bonnets and one lug.

SH3.16.7 The available back edge strips widths are as follows:

3-1/2"

5-1/2"

7-1/2"

9-7/16"

11-3/8"

13-3/8"

15-3/8"

17-5/16"

### SH3.17 Mobile Divider Shelf

SH3.17.1 Mobile divider shelves shall be constructed vertically from 16-gauge steel and horizontally from 19-gauge steel plate.

SH3.17.2 The overall dimensions for the mobile divider shelf shall be 15-3/4" high x 36" wide x 15-3/4" deep.

SH3.17.3 The mobile divider shelf shall consist of a 15-3/4" deep bottom shelf with back edge, side panel brackets that include the appropriate mechanism that stabilizes the 7/8" diameter rod that supports the dividers, and five 1" thick x 15-3/4" high x 15-3/4" deep dividers.

### SH3.18 Divided Reference Shelves

SH3.18.1 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".

SH3.18.2 All shelf dimensions specified are actual and not nominal.

SH3.18.3 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.

SH3.18.4 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.

SH3.18.5 Slots shall be punched 11/16" long x 5/64" wide, vertically on the back edge, and from front to back on the shelf surface. The two rows of slots in the back edge shall be centered at 1-13/16" and 5-23/32" from the shelf surface respectively. The slots in the shelf surface shall be centered a 1-3/16" from the front edge of the shelf.

SH3.18.6 Each divider shall be the same specified depth as the shelf and shall be equipped with two bonnets and one lug.

### SH3.19 Pull-out Reference Shelf

SH3.19.1 Shelves shall be of #19 gauge steel plate.

SH3.19.2 All shelf dimensions specified are actual and not nominal. The pullout shelf should fully extend the total depth of the shelf.

SH3.19.3 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.

SH3.19.4 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.

SH3.19.5 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.

SH3.19.6 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.

### SH3.20 Paperback Shelves

SH3.20.1 Shelves shall be of #19 gauge steel plate.

SH3.20.2 All shelf dimensions specified are actual and not nominal. 8" high x 36" wide x 9"/12" deep frame.

SH3.20.3 The shelf shall be one piece, one tier accordion fold shelving, welded to integrated side panel and bracket pieces.

SH3.20.4 Front and top edges shall be U-bent for stability. Front edge of shelf shall be a box formation with a 1" dimension.

SH3.20.5 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".

SH3.20.6 Shelf surface shall be welded to shelf brackets.

SH3.20.7 Paperback shelves shall accommodate media display by cover or title.

### SH3.21 Video Tape Shelves

SH3.21.1 Shelves shall be of #19 gauge steel plate.

SH3.21.2 All shelf dimensions specified are actual and not nominal. 8" high x 36" wide x 9"/12" deep frame.

SH3.21.3 The shelf shall be one piece, one tier accordion fold shelf, welded to integrated side panel and bracket pieces.

SH3.21.4 Front and top edges shall be "U" bent for stability. The front edge of the shelf shall be a box formation with a 1" height dimension.

SH3.21.5 Cross section of the 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 1-9/16", and finally 90-degrees downward for 5/16".

SH3.21.6 Shelf surface shall be welded to shelf brackets.

SH3.21.7 Videotape shelves shall accommodate media display by cover or title.

### SH3.22 Zigzag Display for Paperback/Video

SH3.22.1 Zigzag display for paperbacks and/or videotapes shall be constructed from 19-gauge steel.

SH3.22.2 The zigzag display shall include eleven 90-degree bends with support bracing holding the 36" wide proportion.

SH3.22.3 The display shall rest upon a flat shelf or the multi-use audiovisual shelf with out dividers.

SH3.22.4 Running along the support bracing, either magnates or anti-skid pads are provided to stabilize the display to the shelf used.

### SH3.23 Compact Disc Shelves

SH3.23.1 Shelves shall be of #19 gauge steel plate.

SH3.23.2 All shelf dimensions specified are actual and not nominal.

SH3.23.3 The shelf shall be one piece, one tier accordion fold shelf, welded to integrated side panel and bracket pieces and four removable dividers spaced equally on the shelf.

SH3.23.4 Front and top edges shall be "U" bent for stability. The front edge of the shelf shall be a box formation with a 1" height dimension.

SH3.23.5 Cross section of the shelf shall slope towards the back at 80 degrees for a depth of 6", then bend 90-degrees, for a height of 6", then bend 280 degrees for 1-9/16", and finally 90 degrees downward for 5/16".

SH3.23.6 Shelf surface shall be welded to shelf brackets.

SH3.23.7 Compact Disc shelves shall accommodate media display by cover or title.

### SH3.24 Multiple Uses Audio Visual Shelves

SH3.24.1 Shelves shall be of #19 gauge steel plate.

SH3.24.2 All shelf dimensions specified are actual and not nominal.

SH3.24.3 Overall dimensions shall be 6" high x 36" wide x 9"/12" deep with 6" useable sloped shelf depth.

SH3.24.4 The shelf shall be one piece, one tier accordion fold shelf, welded to integrated side panel and bracket pieces and four removable dividers spaced equally on the shelf.

SH3.24.5 Front and top edges shall be "U" bent for stability. The front edge of the shelf shall be a box formation with a 1" height dimension.

SH3.24.6 Cross section of the shelf shall slope towards the back at 80 degrees for a depth of 6", and then bend 90-degrees, for a height of 6", then bend 280 degrees for 1-9/16", and finally 90-degrees downward for 5/16".

SH3.24.7 Shelf surface shall be welded to shelf brackets.

SH3.24.8 shelf shall accommodate material displayed by cover or title.

### SH3.25 Cassette Shelves

SH3.25.1 Shelves shall be of #19 gauge steel plate.

SH3.25.2 All shelf dimensions specified are actual and not nominal. 8" high x 36" wide x 9"/12" deep.

SH3.25.3 The shelf shall be one piece, two-tier accordion fold shelf, welded to integrated side panel and bracket pieces.

SH3.25.4 Front and top edge shall be "U" bent for stability. The front edge of the shelf shall be a box formation with a 1" height dimension.

SH3.25.5 Cross section of the shelf shall slope towards the back at 75 degrees for a depth of 2-61/64", then bend 90-degrees for a height of 4-3/8", then bend 90 degrees for a depth of 2-61/64", then bend 90-degrees for a height of 4-3/8", then bend 285 degrees for a distance of 23/32", and finally 90 degrees downward for 5/16".

SH3.25.6 Shelf surface shall be welded to shelf brackets.

SH3.25.7 Cassette shelves shall accommodate media display by cover or title.

### SH3.26 Signage Profiles for Audio Visual

SH3.26.1 Signage display profiles that hook directly into the attachment piece provided and are produced from 19-gauge steel plate with welded three bonnet brackets and attachment piece produced from 16-gauge steel.

SH3.26.2 The profile shall measure 3" high x 36" wide x 1-9/16" deep.

SH3.26.3 Three titles are available as standard: Audio Cassette, Video Tape, and Compact Disc. The labels supplied are black vinyl with upper and lower case letters.

### SH3.27 Display Profiles for Audio Visual

SH3.27.1 Display profiles that hook directly into the attachment piece provided and are produced from 19-gauge steel plate with welded bonnet brackets and attachment pieces are produced from 16-gauge steel. The videotape display shall include 7 bonnets, the compact disc display shall include 6 bonnets and the cassette display shall include 5 bonnets.

SH3.27.2 The profiles shall measure 36" wide x 1-9/16" deep with various overall heights as follows:

Video Tape profile = 9-49/64" overall.

Compact Disc profile = 6-13/16" overall.

Audio Cassette profile = 5-53/64" overall.

SH3.27.3 Capacities for the displays shall be as follows:

Video Tape profile = 6 tapes by cover each.

Compact Disc profile = 6 disc's by cover each.

Audio Cassette profile = 12 tapes by cover each.

### SH3.28 Browse Boxes

SH3.28.1 Browse Boxes should be constructed vertically of 16-gauge steel plate and horizontally of 19-gauge steel plate.

SH3.28.2 The browse box shall be of knockdown construction.

SH3.28.3 Every browse box should include a removable corrugated rubber mat covering the bottom to ensure slippage resistance of the media.

SH3.28.4 All browse boxes should offer visibility of the front media stored.

SH3.28.5 Partitions for the browse boxes shall individually separate the appropriate media stored and adjustable.

SH3.28.6 The browse box dividers shall be chromium plated.

SH3.28.5 Three basic models shall be available, the dimensions of these models are as follows:

4" high x 36" wide x 12" deep single-tier.

8" high x 36" wide x 15-3/4" deep single-tier.

8" high x 36" wide x 15-3/4" deep double-tier.

### SH3.29 Media Hanger Bar (Monaco, Oblique and BCI media bags)

SH3.29.1 The media hanger bar shall integrate into the shelving system, with bags or files either by the shelving system source or by other.

SH3.29.2 The brackets of the hanger bar shall be constructed of 16-gauge steel plate.

SH3.29.3 The rods or bars consist of a 7/8" diameter steel round tube for support and a 1/4" or 7/8" diameter steel round tube for suspended the hangers.

SH3.29.4 Media Hanger shall support various media, such as, oblique files and audiovisual material.

SH3.29.5 The media hanger bar can only suspend from the 12" deep frame.

### SH3.30 Mobile Periodical Display Shelf

SH3.30.1 Mobile periodical display shelves shall be molded from Lexan acrylic, which is scratch resistant and available in white only.

SH3.30.2 Mobile periodical display shelves dimensions shall be 3/16" thick x 10-1/4" high x 28-1/2" wide.

SH3.30.3 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.

SH3.30.4 The mobile periodical display shelf shall rest upon a 36" wide x 12" deep or 30" wide x 12" deep standard steel flat shelf.

SH3.30.5 The mobile periodical display shelf shall be stackable for storage purposes.

### SH3.31 Periodical Shelves

SH3.31.1 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.

SH3.31.2 All shelf dimensions specified are actual and not nominal.

SH3.31.3 All Sloping shelves shall be available with 30-degree or 45-degree brackets.

SH3.31.4 Optionally, a transparent panel(s) can be supplied.

### SH3.32 Hinged Periodical Shelf

SH3.32.1 Hinged Periodical Shelves shall be constructed vertically of 16-gauge steel plate, and horizontally constructed of 19-gauge steel plate.

SH3.32.2 The shelves should include; a flat bottom shelf, a tip-up sloping display shelf, and side panel brackets with appropriate mechanisms allowing the sloped display shelf to lift to a horizontal position.

SH3.32.3 Two overall dimensions shall be available, offering economy storage. The following are the dimensions of the models available: 8" high x 36" wide x 15-3/4" deep and 8" high x 36" wide x 12" deep.

SH3.32.4 Optionally, a transparent panel(s) can be supplied.

### SH3.33 Tip-up Periodical Cabinets

SH3.33.1 Tip-up Periodical Cabinets shall be constructed vertically of 16-gauge steel plate, and horizontally constructed of 19-gauge steel plate.

SH3.33.2 The cabinet should include; a canopy top, bottom shelf that 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.

SH3.33.3 Overall dimensions shall be 15-3/4" high x 36" wide x 15-3/4" deep, offering 12 1/4" high inside storage.

SH3.33.4 Optionally, a transparent panel(s) can be supplied.

### SH3.34 Storage Cabinets for Files or Storage

SH3.34.1 The steel cabinets for file or media tray storage shall be constructed vertically of 16-gauge steel plate, and horizontally constructed of 19-gauge steel plate.

SH3.34.2 The cabinet should completely enclosed and including; a canopy top, a bottom shelf, a back panel,

an inserting door with lock, side panel brackets with appropriate mechanism allowing full insertion of the door into the cabinet, and either one or two fully extendable pull-out frames for storage.

SH3.34.3 Fully extendable pullout frames for files or storage trays shall allow for Pendaflex suspended files for letter or legal sized papers or steel storage media trays with sloped divider and bottom insert.

SH3.34.4 Overall dimensions shall be 15-3/4" high x 36" wide x 15-3/4" deep.

### SH3.35 Steel Cabinets with Sliding Glass Door

SH3.35.1 Steel Cabinets shall be constructed vertically from 16-gauge steel, and horizontally from 19-gauge steel plate.

SH3.35.2 The overall dimensions of the cabinet are 36" wide x 12" deep. The offered in heights include: 36-1/2" with two fixed shelves, 48-1/4" with three fixed shelves, 60" with four fixed shelves, and 71-7/8" with five fixed shelves.

SH3.35.3 All internal horizontal components shall be spaced at 12" on center.

SH3.35.4 All cabinets shall include a canopy top and a base shelf that attaches the side panel brackets securely.

SH3.35.5 Both the canopy and the base shelf shall include glides for the glass doors. The base shelf rails shall provide a built-in lock. The sliding glass doors shall be 3/16" thick tempered glass.

SH3.35.6 Interior fixed shelves shall be 10" deep and shall include a back edge for the optional sliding book support.

### SH3.36 Light Fixture

SH3.36.1 Steel shell light fixture with fluorescent tube and asymmetrical or symmetric reflector shall integrate into the shelving system by 16 gauge steel brackets.

SH3.36.2 The light fixture to be a UL listed shelving system component with an 87% reflection output and 200 lux on the bottom shelf of an 84" high shelving unit.

SH3.36.3 The light fixture is available in 30", 36" and 39" widths, and extends 10.1/2" beyond the face of the shelving.

### SH3.37 In Stack Work Stations

SH3.37.1 The in-stack workstation shall include steel brackets and a work surface veneered in laminate, forbo, or natural beech wood.

SH3.37.2 The wood flush brackets provided shall have an additional support devised and shall directly attach to the work surface with wood screws.

SH3.37.3 The attached work surface shall be produced from 3/4", 3-ply particleboard, backer sheet, and one of the selected finished noted above. All edges shall include a 1/8" solid wood edge banding.

SH3.37.4 The work surface shall measure 36" wide x 19-5/8" deep.

### SH3.38 Perforated Steel Intermediate/Back Panels

SH3.38.1 Steel intermediate/back panels shall be constructed from 19-gauge, cold-rolled, perforated steel in widths appropriate to the shelving module width.

SH3.38.2 The steel intermediate/back panels shall interact between the vertical frames and take the place of the cross-members and angled tension supports.

### SH3.39 Beech Wood End Panels

SH3.39.1 Beech wood end panels shall be constructed from 1/2", 3-ply particleboard, which is beech wood veneered on both sides of the panel with solid 1/8" beech wood edge banding.

SH3.39.2 The beech wood shall be treated twice with a non-reflective, acid-hardened lacquer, which ensures durability and the beauty of natural wood.

SH3.39.3 Beech wood 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.

### SH3.40 Perforated Steel End Panels

SH3.40.1 End panels shall be 16-gauge, perforated steel with holes measuring 3/16" diameter.

SH3.40.2 Perforated steel end panels shall install without the use of fittings directly to the vertical frame.

### SH3.41 Glass End Panels

SH3.41.1 The end panel is 3/8" thick tempered glass that is sandblasted and coated on one face.

SH3.41.2 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.

### SH3.42 Range Finder Signage

SH3.42.1 The Opal shelving system has two different range finder signs available; each produced from 16-gauge steel with acid free acrylic covers.

SH3.42.2 Two of the range finders shall wrap around the end panel, one range finder is flat and the other angled with an optional integrated light.

### SH3.43 Overall Shelving Dimensions

SH3.43.1 Available widths:	Starter Unit	Addon Unit	Component
30"	31.1/2" (80 cm)	30.33/64" (77.5 cm)	29.17/32" (75 cm)
36"	37.13/32" (95 cm)	36.27/64" (92.5 cm)	35.7/16" (90 cm)
39"	41.11/32" (105 cm)	40.23/64" (102.5 cm)	39.3/8" (100 cm)
SH3.43.2 Available depths:	Single Faced	Double Faced	Component
10"	11.3/16" (28.4 cm)	20.51/64" (52.8 cm)	9.27/32" (25 cm)
12"	13.5/32" (33.4 cm)	24.47/64" (62.8 cm)	11.13/16" (30 cm)
15.3/4"	17.3/32" (43.4 cm)	32.39/64" (82.8 cm)	15.3/4" (40 cm)
SH3.43.3 Available heights:	With Full Leveling Capacity	Without Leveling Capacity	
48"	48.1/32" (122 cm)	47.1/16" (119.5 cm)	
60"	59.27/32" (152 cm)	58.7/8" (149.5 cm)	
72"	71.27/32" (182 cm)	70.11/16" (179.5 cm)	
84"	83.15/32" (212 cm)	82.1/2" (209.5 cm)	