

L&T Shelving Specifications

General Design: The Shelving is a four post style design consisting of three basic components: uprights, shelves and shelf supports. No clamps or special tools are required for assembly. There are no sway braces, gussets, nuts or bolts to slow assembly, or detract from form or function. The shelving has a clean appearance without holes on exposed surfaces except where the shelving, back stops and center stops are slotted or punched for file dividers, and the shelf center is punched for center stops. The front and back flanges of the shelf are flush with the outside face of the post. Shelves are adjustable on 1 1/2" centers.

Material: L&T 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.

Open Uprights: Open uprights are formed of 18 gauge cold roll steel, rolled into a 2" wide hollow "T" or 1" wide hollow "L" shape with keyslot holes punched on 1 1/2" centers along the inner wall only. There are no holes on the face of the post. The front and back posts are joined by welding 18 gauge spacers to maintain the required distance apart and add rigidity to the assembly. Center spacers are 3" high flat strips. Top and bottom spacers have a 1 1/16" stiffening flange with two 1/4" holes to allow mounting to the floor or mobile bases. All uprights 64" or less have three spacers. All other uprights have four spacers. The "T" uprights are used as common intermediate uprights and "L" uprights are used for row ends.

Closed Uprights: Closed uprights have same specification as open uprights except the 18 gauge spacers are replaced by welding a 24 gauge closure sheet with a special offset stiffener flange at the bottom of the closure sheet. The flange has two 1/4" holes to allow securing to floor or mobile bases.

Library Uprights: Consist of a closed upright and a 24 gauge closure panel. The closure panel will be offset so the face is flush with the post to prevent books or files from going behind uprights. A 1" offset allows for installation of shelf supports. 18" and wider panels have a center offset to allow installation of the center stop. "T" uprights will have two panels and "L" uprights will have one panel welded to closed upright panel.

Heavy & X-Ray Shelf: Shelves 12" deep or less are formed of 20 gauge cold roll steel. All other sizes are formed from 18 gauge cold roll steel. Four sides are formed with a 1 7/32" high channel formation with return flange over-bent to 120 degrees permitting easier installation. Shelves available with slots or 9/32" diameter holes on 2" centers to use with X-Ray dividers and bin dividers respectively. Outermost slots on X-Ray shelves coincide with the inner edge of the post so divider can be used to prevent X-Ray jacket from leaning into upright.

Thin & Library Shelf: Shelves are formed of 22 gauge cold roll steel with a 25/32" high channel formation on all sides. Return flange is formed to 120 degrees permitting easier installation. Slotted shelves have shelf divider slots on 2" centers. Outermost slots on thin shelves coincide with the inner edge of the post so a file divider can be used to prevent files from leaning into the upright. Shelves 18" or deeper are punched for center stops.

Shelf Support: Shelf supports are formed of 14 gauge (also available in 11 gauge) hot roll pickled steel, 1 1/16" high with flat ears at either end. Semi-tubular rivets with 7/16" diameter head is staked onto ears. Shelf supports for heavy and X-Ray shelving are the same as above except they are 1 1/8" high. Supports are available with single or double rivets. The bottom of single rivet heavy supports can fit flush with the floor and single rivet thin supports are optional on intermediate levels.

Back Stop: Back stops are formed of 18 gauge steel with 7/16" channel formation at the top and a 7/16" stiffener flange at the bottom. Face is slotted on same centers as the shelf to receive and retain file divider tabs. Ends have one shoulder rivet with 7/16" diameter head. Rivets are set in keyholes on inner wall of back upright posts. Back stops also act as stop for files and are used on single entry only.

Front Base: Front bases are constructed from 20 gauge steel. They are a flat strip with one 9/16" stiffening flange across the bottom edge. Front bases are available in heights of 2" or 4".

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Center Stop: Center stops are formed of 18 gauge cold roll steel. They are 4" high with mounting holes on $\frac{9}{16}$ " bottom flange and a $\frac{9}{16}$ " box channel at the top which acts as back stop with equal filing depth from both directions. The face is slotted to retain file dividers on same centers as shelves. Center stops are attached to center of double entry shelves with plastic plugs or bolts and nuts. X-Ray center stops are the same as above except overall height is 7".

Letter File Divider: File dividers are stamped from 20 gauge steel with two embossed tabs to enter matching slots in shelf and a retaining tab on the back edge to locate and stabilize the divider against back stop or center stop. Dividers are self locking on shelf, are 8" high, and are available in depths of 8" or 11".

X-Ray File Divider: X-Ray file dividers are the same design as the letter size except they are stamped from 18 gauge cold roll steel. The dimensions are 15 $\frac{1}{2}$ " deep x 12" high.

Backs: Backs are formed from 24 gauge cold roll steel and are held in place by reverse flanges on each side. The side edges are formed in two reverse flanges on each side. The side edges are formed in two reverse 90 degree bends to provide flanges $\frac{3}{8}$ " and $\frac{5}{16}$ " wide. The flanges fit around the post and hold the back in place by retaining the flanges between the shelf support, the notch in the shelf and the post. The top and the bottom of the back have stiffeners for additional strength. Backs of 88" high or less are of one piece construction, while backs over 88" high are of two piece construction, connected with a back splice.

Sliding Door: Sliding doors are formed of 20 gauge steel and are in a frame of 18 gauge steel. Doors roll on steel rollers in two tracks set in the bottom frame member. Sliding door adds 3" to standard depths. Door set includes lock and hardware.

Sliding Reference Shelf: Reference shelves are formed by 18 gauge steel and are attached to the underside of shelf supports where needed. Shelf extends 9" from face of shelf. Reference shelves operate on ball bearing extension slides and can be mounted alone on single face units or back to back on double face units.

Color: Two standard colors - Sand and Light Grey.

Shelf Reinforcement: Reinforcements are formed of 13 gauge hot roll, pickled steel. Heavy shelf reinforcements are 1 $\frac{3}{64}$ " with two $\frac{29}{64}$ " deep slots to fit over short leg of heavy shelf support. Thin shelf reinforcements are $\frac{39}{64}$ " high with two pair of $\frac{23}{64}$ " deep slots. The inner and outer slots fit over the short leg of the double and single shelf support respectively.

Shelf Bin Dividers: Shelf bin dividers are manufactured of 22 gauge cold roll steel. The front has a $\frac{3}{8}$ " wide bead for rigidity and to eliminate sharp corners. Top and bottom have $\frac{3}{4}$ " flanges with elongated holes through which plastic plugs or nuts and bolts may be used to attach dividers to the shelf.

T Bar Support: T Bar supports are formed of 11 gauge hot roll pickled steel. The supports have an "L" formation to accept T Bars for EDP printout storage. T Bar supports are available in burst or unburst versions.

Tape Seal Bar: Tape seal bars are formed of 18 gauge cold roll steel with thirty six $\frac{5}{8}$ " square slots on a 36" bar. Tape seals rest on a double hem with no sharp edges exposed to the tape. The tape seal bar is mounted on two 14 gauge cold roll steel supports. Tape seal bars can be installed in 12" deep units as single entry to 24" deep units as double entry. Tape seal bars are available with a fixed anti-sway bar or with a spring loaded bar or easier retrieval of tapes.

Hinged Door Unit: Doors are formed of 20 gauge cold roll steel with pan stiffener for extra rigidity. Door frame components are formed of 16 gauge cold roll steel and welded into a rigid framework. Unit comes fully assembled and mounts to uprights. Right door has satin finished locking handle with three point locking mechanism. Left door has matching handle screwed into place. Door unit protrudes 1 $\frac{7}{16}$ " in front of shelving.