

## **Knock Down Plus Series**

### **Part 1: General**

**1.1 Construction Requirements:** All lockers shall be powder – coated steel as design and manufactured by Lockers MFG, Memphis, Tennessee. Lockers MFG will furnish all labor and materials for the completion of work in this section as shown in the approved drawings and specifications.

**1.2 Qualifications of alternative lockers:** Will be evaluated only if they are submitted with supporting documents to show that they are equal or better than these specification standards.

**1.3 Warranty:** Lockers are warranted for a lifetime against defective parts and workmanship, excluding vandalism and improper installation and use.

**1.4 ADA Lockers:** Lockers are to meet the Americans with Disabilities Act, accessibility guidelines. They shall have recessed handles and shall be single tier or lower opening of a double tier locker. Locker bottom shall be a minimum of 15” off the floor, or an extra shelf placed 15” off the floor. Single tier lockers shall have a shelf 48” off the floor. Doors assigned for handicapped use shall have an appropriate symbol sign.

**1.5 Submittals:** Shop drawing shall show the following: Dimensioned drawings including plans, elevations, and sections to show locker locations and interfaces with adjacent substrates. Color charts will be provided representing manufactures full range of available colors and finishes.

**1.6 Delivery, Storage & Handling:** Store products in manufacture’s unopened packaging until ready for installation to protect the locker finish and adjacent surfaces from damage.

### **Part 2: Specified Product Detail Knock Down Plus Series**

**2.1 Acceptable Product:** Lockers MFG Knock Down Plus Series, knock-down locker.

**2.2 Acceptable Manufacturer:** Lockers MFG, which is located at: P.O. Box 383258, Germantown, TN 38183; Phone: 901-207-6573; Email: [sales@lockersmfg.com](mailto:sales@lockersmfg.com); Website: [www.lockersmfg.com](http://www.lockersmfg.com)

**2.3 Material:** Steel parts shall be mild cold-rolled commercial quality steel, capable of taking a high grade enamel finish.

**2.3.1 Rivets:** Steel mandrel rivets.

**2.3.2 Bolts and Nuts:** Zinc plated truss fin head bolts and hex nuts.

**2.4 Knockdown Construction:** Lockers shall be built on a unit principle with common intermediate uprights separating units. Locker body assembly using rivets and/or nuts and bolts.

**2.4.1** Fabricate lockers square, rigid, without warp, with metal faces flat and free of distortion.

**2.5 Door Frames:** Shall be 16 gauge formed in a channel shape. Vertical members shall have additional flange to provide a continuous door strike. Cross frame members should also be 16 gauge channel shaped, including intermediate cross frame members on double and triple tier lockers.

**2.5.1** Securely weld cross frame members of channel shapes to vertical framing members to ensure rigidity.

**2.6 Doors:** Shall be 14 gauge, channel shaped on both the lock and hinge side, with angle formations across the top and bottom. One, two and three tier lockers doors shall have 16 gauge full height reinforcement channel.

**2.6.1** Doors 12" and over wide or 20" high are 14 gauge sheet steel. Doors less than 12" wide are 18 gauge sheet steel.

**2.6.2** Doors over 15" wide by 60" or 72" high: includes a 3" wide 20 gauge full height reinforcing pan welded to inside face of door at 6" centers.

**2.6.3 Legs:** 6" legs are standard. No legs are optional.

**2.7 Ventilation:** Flush door front with no exposed louvers and air flow slots located in top and bottom flanges of door. Optional ventilation patterns available upon request.

**2.8 Body:** Hole spacing in locker body construction: not exceeding 9". Steel specially formed for added strength and rigidity and to ensure tight joints at fastening points.

**2.8.1 Bottoms:** 16 gauge sheet steel, with three sides formed 90 degrees, the front offset formed to be flush with horizontal frame member.

**2.8.2 Tops:** 24 gauge sheet steel, with three sides formed 90 degrees, the front offset formed to be flush with horizontal frame member.

**2.8.3 Sides:** 24 gauge sheet steel

**2.8.4 Backs:** 24 gauge sheet steel

**2.8.5 Shelves:** 24 gauge sheet steel. Shelves with four sides formed to 90 degrees, front edge having a second bend.

**2.9 Box Lockers:** Channel formations on lock and hinge sides, right angle flanges on top and bottom; pre-punch doors for padlock latch and friction catch and built in combination and key locks.

**2.10 Hinges:** Shall be 16 gauge full length continuous piano type riveted to both door and frame. Hinge shall maximize security and enhance resistance to abuse and vandalism. Optional 2" high, double spun, full loop tight pin, five-knuckle, butt hinge. Welded to frame and riveted to door.

**2.11 Handles:** Shall be one-piece 20 gauge deep drawn stainless cup designed to accommodate locks.

**2.12 Latching:** On single, double, triple, and two person lockers the lifting trigger will be 14 gauge steel, attached to the latching channel. The trigger will have a padlock eye for use with 9/32" diameter padlock shackle. Latching channel held in place by built in metal lips, ensuring quiet locker performance.

**2.12.1** Doors shall have latch clip glass filled nylon; engaging frame at 3 points on doors over 42" high and 2 points on all other doors. Locking device to be positive automatic type, whereby locker door may be locked when open, then closed without unlocking.

**2.12.2** A rubber silencer shall be firmly secure to the frame at each latch hook.

**2.12.3** Provide lock hole cover plate for use with padlocks. Four, five and six tier lockers shall have an 11 gauge frame hook secured to the frame. The frame hook shall have a padlock hasp protruding through the recessed handle. Optional single point latch, this is equipped with a magnetic catch ensuring doors stay shut.

**2.12.4 Pocket:** 20 gauge brushed stainless steel securely fastened to door with two tabs and a positive tamper-resistant decorative fastener; of depth sufficient to prevent a combination padlock, built-in combination lock, or key lock from protruding beyond door face.

**2.13 Interior Equipment:** Single tier lockers 48" or higher shall have a shelf. When under 18" deep, locker shall have 3 wall hooks and one ceiling hook. Single tier lockers 18" deep or more shall have a coat rod instead of one ceiling hook. Triple tier lockers shall have three wall hooks for 12" and 4 wall hooks for 15" and wider lockers.

**2.13.1** All hooks are zinc plated steel with ball point heads and are attached with two fasteners.

**2.14 Number Plates:** Provide holes for attaching number plates. Each locker shall have a polished aluminum number plate riveted to door face with black numerals 1/2" high.

**2.15 Finish:** All components shall have a 2mm hybrid epoxy/polyester powder, electrostatically applied to ensure a uniform finished and baked to cure.

**2.16 Color:** Doors and all body parts shall be selected from Lockers MFGs standard color range.

**2.16.1** Custom colors optional.

### **Part 3: Built In Standard Superior Quiet Locker Features:**

**3.1 Silencing For Schools:** We Feature Technology Leading Quiet Doors:

**3.1.1. The Design Specification:** The key to the sound dampening is the solid interior welded double strength plate welded to the door. This one piece is

fabricated from 16 gauge or 18 gauge steel sheet; formed into channel shape with double a bend at vertical edges and with a right-angle single bend at the horizontal edges. The doors can be equipped with quiet handles and silencing latches.

**3.1.2. Quiet Handles:** stainless steel recessed handle with plastic-protected lifting trigger, designed to accept padlock or built in locks.

**3.1.3. Silencing Latches:** nearly silent multi-point latching on heavy gauge frame hooks with rubber buffers that smoothly reduce noise and contact. There is a concealed quiet lock bar that is locked into place and restricts metal-to-metal noise contact by polyethylene glides.

**3.1.4. U Shape Channel Glide:** The spider plastic component tops the inside the galvanized latch channels so there is no rattling within the latch bar cavity.

**3.2 Additional Option. Sound-Dampening Panels:** Lockers Manufacturer's standard, designed to stiffen doors and reduce sound levels when doors are closed, of die-formed metal with full perimeter flange and sound-dampening design and material; welded to inner face of doors. These sound-dampening panels are attached horizontally or vertically depending upon the design of the locker.

#### **Part 4: Accessories & Options**

**4.1 Closed Bases:** 18 gauge closed metal front and end bases, finished to match lockers.

**4.2 Zee Bases for Knock Down Lockers:** 14 gauge, steel flanged outward at top for support of lockers, flanged inward at bottom for anchoring to floor.

**4.3 Unit Slope Tops for Standard Duty Lockers:** 24 gauge steel, slope rise equal to 1/3 of the locker depth, finish to match lockers.

**4.4 Continuous Sloped Hoods:** 18 gauge steel, slope rise equal to 1/3 of the locker depth (18.5 degrees), plus a 1" vertical rise at front. Supplied in 72" lengths only. Slip joints without visible fasteners at splice locations. Provide necessary end closures and finish to match lockers.

**4.5 16 Gauge Exposed End Panels:** Minimum 16 gauge steel formed to match locker depth and height. Punched with perimeter holes only.

**4.6 Finished Box End Panels:** Minimum 16 gauge steel formed to match locker depth and height, 1" edge dimension; finish to match lockers; install with concealed fasteners.

**4.7 Front Fillers:** 20 gauge steel formed in an angle shape, with 20 gauge slip joint angles formed in an angle shape with double bend on one leg forming a pocket to provide adjustable mating with angle filler. Attachment by means of concealed fasteners. Finish to match lockers.

**4.8 Top Fillers:** 20 gauge steel. Cover gaps between tops of lockers. They overlap the locker tops and can be field cut.

**4.9 Recess Trim:** 18 gauge steel, 3" face dimension. Vertical and/or horizontal as required. Standard lengths as long as practical; attaches to lockers with concealed clips. Provide necessary finish caps and splices. Finish to match lockers.

**4.10 Benches:** Laminated selected hardwood, 1-1/4" full finished thickness, corners rounded and sanded, surfaces finished with two coats of clear lacquer.

**4.11 Heavy Duty Bench Pedestals:** Steel tubing with 10 gauge steel flanges welded to each end, 16-1/4" high, and finish to match lockers.

**4.12 Stainless Steel Free-Standing Bench Pedestal:** 2" diameter brushed 16 gauge stainless steel formed into a trapezoid, 14" wide bottom with two 5/16" diameter holes, top flange with four 5/16" diameter holes for fastening to bench.

**4.13 Locks:** Built in flat key locks; master key same to series.

**4.14 Locks:** Built in grooved key Locks (pin tumbler); master key to same series.

**4.15 Locks:** Built in three number dialing combination locks capable of at least five different combinations changes; provide master key, combination change key, and combination control charts.

**4.16 Padlocks:** Master keyed three number dialing combination type padlocks; provide master key. Mechanism must be resistant to "shimming".

## **Part 5. Execution**

**5.1 Preparation:** Verify that base is level. Do not begin installation until base has been properly prepared.

**5.1.1** Clean surfaces thoroughly prior to installation. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

**5.2 Installation:** Lockers shall be installed in compliance with Locker MFG's installation instructions and shall be level and plumb with flush surfaces and rigid attachment to anchoring surfaces.

**5.2.1** Bolt adjoining locker units together to provide rigid installation.

**5.2.2** Install sloping tops and metal fillers using concealed fasteners. Provide flush hairline joints against adjacent surfaces.

**5.2.3** Install benches by fastening bench tops to pedestals and securely anchoring to the floor using appropriate anchors for the floor material.

**5.3 Anchoring:** Anchor lockers to floor and wall.

**5.4 Assembly:** Assembly by bolting is acceptable, Lockers MFG recommends assembly by riveting. Rivets provide solid permanent fastening but allow for faster removal by drilling where future rearrangement of lockers or replacement of damage parts may be required.

**5.5 Adjust and Clean:** Adjust doors and latches to operate without binding. Verify that latches are operating satisfactory.

**5.5.1** Adjust built in locks to prevent binding of dial or key and ensure smooth operation prior to substantial completion.

**5.6 Touch up:** With factory supplied paint and repair or replace damage products before substantial completion.

**5.7 Protection:** Protect installed products until completion of project.

**End of Section**