

# REPUBLIC HEAVY-DUTY VENTILATED LOCKER SPECIFICATIONS



## PART 1- GENERAL

1.1 RELATED DOCUMENTS: We suggest use of your standard office reference to drawing, general and special conditions, etc.

1.2 SCOPE: Furnish and install new steel lockers, accessories and finish metal trim as shown or indicated on approved drawings. Concrete or masonry bases, wood furring, blocking or trim, as may be required by drawings are included in other sections of this specification.

### 1.2.1 SUBMITTALS:

Shop Drawings: Submit drawings showing locker types, sizes and quantities, including all necessary details relating to anchoring, trim installation and relationship to adjacent surfaces.

Numbering: The locker numbering sequence shall be provided by the approving authority and noted on approved drawings returned to the locker contractor.

Color Charts: Provide color charts showing manufacturer's available colors. If required by normal office procedures or in the event of non-standard color selection, request samples of paint on metal.

Lock Combination Listings and Master Keys: Use only when combination locks are specified. Delivered directly to the owner's representative.

### 1.3 QUALITY ASSURANCE:

1.3.1 UNIFORMITY: Provide each type of metal locker as produced by a single manufacturer, including necessary accessories, fittings and fasteners.

1.3.2 JOB CONDITIONS: Do not deliver metal lockers until building is enclosed and ready for locker installation. Protect from damage during delivery, handling, storage and installation.

## PART 2 – PRODUCTS

### 2.1 MANUFACTURER:

Republic Storage Products, LLC. Products by other manufacturers may be approved provided they meet the detailed specifications written below. Approval procedure shall be as specified in the General Conditions of these locker specifications.

### 2.2 LOCKERS:

Configuration (Tier/Box):

Size:

Color:

No. of Locker Frames:

No. of Locker Openings:

### 2.3 FABRICATION:

2.3.1 MATERIAL: All major steel parts shall be made of mild cold rolled steel, free from imperfections and capable of taking a high grade enamel or powder coat finish.

-ALTERNATE: Specified locker components shall be manufactured from Galvannealed steel and finished by manufacturer's standard process.

2.3.2 FINISH: Surfaces of the steel shall be thoroughly cleaned, phosphatized and prepared for baked enamel or powder coat finish in accordance with paint manufacturer's instructions.

2.3.3 CONSTRUCTION: Lockers shall be built on the unit principle - each locker shall have an individual door and frame, an individual top, bottom, back and shelves with common intermediate uprights separating units. Assembly of all locker components shall be by riveting with a backup washer to provide a shake-proof permanent fastening system, while still permitting fastener



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removal by drilling to allow future rearrangement of lockers or replacement of damaged parts.

-OPTION 1: Keys nuts and bolts (in lieu of rivets and washers) may be used for assembly.

-OPTION 2: Lockers shall be pre-assembled of welded construction in multiple groups, conforming to job requirements. All welds shall be smooth and without burrs. No nuts, bolts or rivets shall be allowed in assembly of main locker groups.

**2.3.4 DOOR FRAMES:** Door frames shall be 16 gauge formed into 1" wide face channel shapes with a continuous vertical door strike, integral with the frame on both sides of the door opening. Cross frame members of 16 gauge channel shapes, including intermediate cross frame on double, triple or four tier lockers shall be securely welded to vertical framing members to ensure a square and rigid assembly. Intermediate cross frame members are not required on box lockers.

**2.3.5 DOORS:** Single, double and triple tier doors shall be formed from one piece 14 gauge cold rolled sheet steel. Formations shall consist of a full channel shape on the lock side of adequate depth to fully conceal the lock bar, channel formation on the hinge side and right angle formations across the top and bottom. Doors shall have diamond shaped perforations 3/4" wide by 1-1/2" high to provide free airflow while leaving sufficient metal for rigidity and strength.

Doors for box lockers 4, 5 and 6 openings high to be 14 gauge formed steel with right angle flanges on all four sides. Box locker doors are perforated for free airflow using small diamond perforations 7/16" wide by 15/16" high. Box locker doors are punched to accept optional strike plate.

-OPTION: Locker doors shall be ventilated by louvers on the face of each door, top and bottom.

-OPTION: Reinforced Door: On doors 15" and wider, tiered athletic doors shall be reinforced with a 16 gauge channel welded to the inside side of the door. Channel shall be 7/8" wide and shall be placed vertically in the center of the door to provide maximum stiffness. The diamond pattern shall be shifted to be a vertical band on the hinge side of the door. On doors with louvers, the channel shall be located near the hinge side of the door, so that the louvers are unobstructed.

**2.3.6 PRE-LOCKING DEVICE:** All "tiered" lockers, except lockers with a turn handle, shall be equipped with a positive automatic pre-locking device whereby the locker may be locked while door is open and then closed without unlocking and without damaging locking mechanism.

**2.3.7 LATCHING:** Latching shall be a one-piece, pre-lubricated spring steel latch, completely contained within the lock bar under tension to provide rattle-free operation. The lock bar shall be of pre-coated, double-channel steel construction. The lock bar shall be securely contained in the door channel by self-lubricating polyethylene guides that isolate the lock bar from metal-to-metal contact with the door. There shall be three latching points for lockers over 42" in height and two latching points for all tiered lockers 42" and under in height. The lock bar travel is limited by contacting resilient high-quality elastomeric cushioning devices concealed inside the lock bar. Frame hooks to accept latching shall be of heavy gauge steel, set close in and welded to the door frame. Continuous vertical door strike shall protect frame hooks from door slam damage. A soft rubber silencer shall be securely installed on each frame hook to absorb the impact caused by closing of the door. A Latch Guard steel plate shall be welded on each frame hook on tiered lockers.

ALTERNATE: Box Lockers: Each door shall be provided with a factory installed, welded-on spring latching device. The latch shall consist of a heavy gauge E-coated and painted finger-operated trigger, which is punched to accept a padlock loop. Latching shall be automatic when the door is shut by means of a torsion spring-loaded trigger, which engages a welded-on frame hook.

-OPTION: Turn Handle: Tiered athletic lockers can also be equipped with a three point latching turn handle that provides latching rod engagement at the top and bottom cross frames and a 1" wide center latch engaging the vertical locker jamb.

**2.3.8 HANDLES - Tiered Lockers:** A non-protruding 14 gauge lifting trigger and slide plate shall transfer the lifting force for actuating the lock bar when opening the door. The exposed portion of the lifting trigger shall be encased in a molded ABS thermoplastic cover that provides isolation from metal-to-metal contact and be contained in a formed 20 gauge stainless steel pocket. This stainless steel pocket shall contain a recessed area for the various lock types available and a mounting area for the number plate.



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-OPTION: Turn Handle: Tiered athletic lockers can also be equipped with an externally mounted turn handle compatible with both padlocks and built-in dead bolt locks.

2.3.9 HINGES: Hinges to be 2" high, 5-knuckle, full loop, tight pin style, securely welded to frame and double riveted to the inside of the door flange. Hinges are attached with two rivets. Locker doors 42" high and less shall have two hinges. Doors over 42" high shall have three hinges. An extra hinge shall be provided on 24" wide Heavy-Duty Ventilated single and double tier doors.

2.3.10 BODY: Locker body components shall be made of cold rolled steel specially formed for added strength and rigidity and to ensure tight joints at fastening points. 16 gauge side uprights are perforated with diamond-shaped openings 3/4" wide by 1-1/2" high for maximum ventilation. Locker backs shall be 18 gauge steel with right angle flanges on each vertical side for stiffness, ease of assembly, and to provide corner rigidity. Tops, bottoms, shelves and compartment dividers shall be 16 gauge steel, fully flanged on all sides for added stiffness. Shelves shall have an additional return flange on the front edge creating a channel shape to rigidize the impact surface. All body parts are finished in the same color selected for doors and frames.

ALTERNATE: All Welded Ventilated Lockers: Locker back shall be fabricated from 16 gauge cold rolled sheet steel and formed in combination with the 16 gauge upright to provide a one piece uniform structure.

2.3.11 INTERIOR EQUIPMENT: Single tier lockers over 42" high shall have one hat/book shelf. Other tiered lockers do not require shelves. All single, double and triple tier lockers shall have one double prong rear hook and two single prong side hooks in each compartment. All hooks shall be made of steel, formed with ball points, zinc-plated and attached with two bolts or rivets. Locker openings under 20" high are not equipped with hooks.

2.3.12 NUMBER PLATES: Each locker shall have a polished aluminum number plate with black numerals not less than 1/2" high. Plates shall be attached with rivets to the lower surface within the recessed handle pocket.

2.3.13 COLOR: Lockers shall be finished in colors selected from Republic's collection of twenty-five baked enamel colors.

-ALTERNATE: Lockers shall be finished in colors selected from Republic's collection of nine powder coat colors.

-OPTION: Specifier may modify above paragraph if non-standard custom colors are selected.

### PART 3 - EXECUTION

3.1 INSTALLATION: Lockers must be installed in accordance with manufacturer's approved drawings and assembly instructions. Installation shall be level and plumb with flush surfaces and rigid attachment to anchoring surfaces.

Space fasteners at 36" O.C. or less as recommended by manufacturer. Use fasteners appropriate to load and anchoring substratum. Use reinforcing plates wherever fasteners could distort metal.

Various trim accessories where shown, such as sloping tops, fillers, bases, recess trim, etc., shall be installed using concealed fasteners. Flush, hairline joints shall be provided at all abutting trim parts and at adjoining surfaces.

3.2 ADJUSTMENT: Upon completion of installation, inspect lockers and adjust as necessary for proper door and locking mechanism operation.

3.3 QUALITY ASSURANCE: Republic reserves the right to modify the design and/or change specifications or colors/finish consistent with our policy of product excellence.

