

ULTRA-Frame Lockers Angle Iron Frame

Single, Double, Triple, 5 and 6 High Box



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 the 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 Systems, 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 specifications.

2.2 LOCKERS:

Style: Fully Framed

Configuration (Tier/Box):

Size:

Color:

No. of Locker Frames:

No. of Locker Openings:

2.3 FABRICATION:

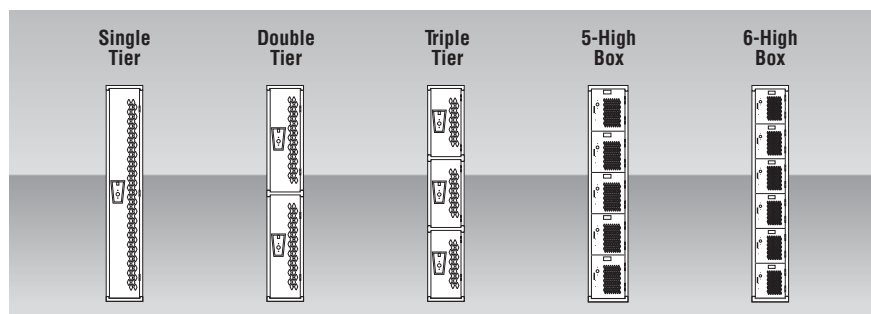
2.3.1 MATERIAL: All major steel parts shall be made of mild cold rolled steel, free from imperfections and capable of taking a high grade enamel finish. Framing components shall be made of 1-inch by 1-inch by 1/8-inch steel angle iron.

2.3.2 FINISH: Surfaces of the steel shall be thoroughly cleaned and phosphatized in a seven-stage process. All parts shall then be finished with a heavy coat of enamel baked on at 300 degrees for 30 minutes.

2.3.3 CONSTRUCTION: Lockers to be welded at seams and joints with exposed welds sanded smooth. No bolts, screws, or rivets to be used in assembly of locker units. Ship lockers set-up, ready to be anchored in place in accordance with manufacturer's instructions. Lockers shall be welded into groups as wide as practical for painting and handling.

2.3.4 LOCKER BODIES

A. Side panels and intermediate partitions (uprights) shall be constructed of formed 16 gauge sheet steel, framed on all four sides by 1-inch by 1-inch by 1/8-inch steel angle iron, welded to make a rigid frame. The formations on this panel shall also provide the frame necessary around door opening. Hinges and latching components shall be welded to this framing. A continuous vertical door strike integral with the frame shall be on both sides of the door opening. Angle iron framing shall not be visible from outside of locker. Ventilation shall be provided by diamond shaped perforations 3/4" wide by 1-1/2" high on locker sides. Uprights are also available without perforations for use as end panels.



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B. Backs shall be constructed of 18 gauge cold rolled sheet steel welded to the frames of side and intermediate partitions.

C. Tops and bottoms shall be constructed of 16 gauge cold rolled sheet steel with a single panel spanning across a welded group of lockers. Top and bottom shall be welded to the frames of side and intermediate partitions.

D. Shelves and tier dividers shall be constructed of 16 gauge cold rolled sheet steel welded to the side and intermediate partitions. Shelves shall be provided in lockers taller than 42", located about 12" down from top of locker. Double, triple and four tier lockers shall have a channel shaped cross frame provided between the upper and lower doors.

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 in a vertical band on the right side of the door to provide free airflow, while leaving sufficient metal for rigidity and strength, and keeping diamond perforations a secure distance from the latching mechanism. 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.

-OPTION: Door Ventilation: Doors can be supplied plain, with louvers, or with mini-louvers. In these conditions, the channel will not be provided unless the door is 24" wide or if Single Point Latching is requested. On Single Point Latch lockers, the channel shall be located near the hinge side of the door, so that the perforations are unobstructed.

Doors for box lockers 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.

2.3.6 PRE-LOCKING DEVICE: Unless an optional latching is chosen, all "tiered" lockers, 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. The impact caused by the door closing shall be absorbed by a soft rubber silencer which is to be securely installed on each frame hook. 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: Single Point Latching: Tiered and box lockers can be equipped with a single point latching system. Latching shall be achieved by securing an 11 gauge frame hook to the locker side frame located midway up on the door. This frame hook shall have a padlock hasp protruding through the stainless steel recessed pocket and also will have punching to accept Master Lock 1690 or 1790.

-OPTION: Turn Handle: Tiered athletic lockers can also be equipped with a three-point latching, cremone turn handle that provides 3/8" diameter 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.

-OPTION: Single Point Latching: Tiered and box lockers can be equipped with a single point latching system. A one piece, deep drawn stainless steel cup shall be securely riveted to the door to form a receptacle for the padlock or built-in lock. The pocket shall also have a formation across the top that provides a door pull. This stainless steel pocket shall contain a recessed area for the various lock types.

-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 3 inch, five knuckle, 14 gauge with 3/16 diameter pin, securely welded to both the door and the frame. Locker doors 42" high and less shall have two hinges. Doors over 42" shall have three hinges.

2.3.10 INTERIOR EQUIPMENT: Single tier lockers over 42" high shall have one hat/book shelf. Other tiered lockers do not require shelves. All single and double 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 rivets. Lockers under 30" high are not equipped with hooks although holes are provided if the user chooses to add hooks to smaller lockers.

-OPTION: Additional shelves may be added to lockers to provide ADA compliance.

2.3.11 BASE: ULTRA-Frame Lockers can be ordered for use on a concrete or wood base, for use with Republic's 16 gauge or 12 gauge Z-Base system, or with an integral base securely welded to the locker. Integral base to be constructed of 14 gauge cold rolled sheet steel. It is 4 inches high, the width spanning across the welded group of lockers, enclosing all four sides.

2.3.12 SLOPING TOPS, TRIM, FILLER PANELS: ULTRA-Frame Lockers are compatible with Republic's Continuous Sloping Tops. These can be formed of 20 or 16 gauge cold rolled sheet steel, sloping back at 18 degrees, supplied with necessary end and corner panels. ULTRA-Frame Lockers are also compatible with Republic's recessed trim, slip joints, angle fillers, and boxed end panels. All of these solutions assemble to the lockers using concealed fasteners.

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. On doors equipped with single point latching, plates shall be attached with rivets to the top face of the locker door for high visibility.

2.3.13 COLOR: Doors and body parts to be finished in colors selected from Republic's collection of twenty-five 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 installation 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 are 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. Touch up scratches and abrasions with factory-supplied paint to match original finish.

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.

NOTE: For user safety, all Republic lockers must be secured to the wall and/or floor prior to use.

