

SECTION 10500 - METAL LOCKERS

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 the 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 specifications.

2.2 LOCKERS:

Style: Heavy-Duty Ventilated Lockers

Configuration (Tier / # High):

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 A.S.T.M. A1008/A, free from imperfections and capable of taking a high grade powder coat finish.

-ALTERNATE: Specified locker components shall be manufactured from galvanized steel A.S.T.M. A653/A and capable of taking a high grade powder coat finish.

2.3.2 FINISH: Exposed steel parts shall be thoroughly cleaned, given a bonding and rust inhibitive phosphate treatment and then electrostatically sprayed with powder coat paint.

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, and back with common intermediate uprights separating units.

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 and triple 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 of 14 gauge with a full channel shape on lock side to fully conceal the lock bar, channel formation on the hinge side, and right angle formations across the top and bottom. Single tier doors 60" and 72" in height and 18" and wider and all other doors wider than 18" shall be reinforced with an 18 gauge pan stiffener. Doors shall have diamond shaped perforations to provide free airflow while leaving sufficient metal for rigidity and strength. A number plate shall be mounted near the top of each door.

Doors for box lockers 4, 5, and 6 openings high shall be 14 gauge formed with a channel shape on the hinge side and right angle formations on the other three sides. Box locker doors shall have diamond shaped perforations to provide free airflow while leaving sufficient metal for rigidity and strength.

-OPTION 1: Locker doors shall be of flush design without louvers or perforations on the face, and the top and bottom flanges of single, double, and triple tier doors shall be perforated for ventilation with Republic's Verti-Vent System.

-OPTION 2: Locker doors shall be ventilated by louvers on the face of each door, top and bottom, and the top and bottom flanges of single, double, and triple tier doors shall be perforated for ventilation with Republic's Verti-Vent System.

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

2.3.7 LATCHING: Latching shall be a spring-loaded polycarbonate latch finger, completely contained within the lock bar under tension to provide rattle-free operation. The lock bar shall be pre-coated steel in channel formation with full length reinforcing ribs. 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 12 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 near each frame hook to absorb the impact caused by closing of the door. Box locker doors shall be equipped with a one-point latching device with a 14 gauge steel padlock hasp securely welded to the frame and an integrated friction catch and handle pull mounted on the door. Box locker doors may also be equipped with built-in locks.

-OPTION: Turn Handle: Single, double, and triple tier 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: 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 recessed pocket. This stainless steel pocket shall contain a recessed area for the various lock types available.

-OPTION: Turn Handle: Single, double, and triple tier athletic lockers can also be equipped with an externally mounted turn handle compatible with both padlocks and built-in deadbolt locks.

2.3.9 HINGES: Hinges shall be 2" high, 5-knuckle, full loop, tight pin style, securely welded to frame and riveted to the inside of the door flange. Locker doors over 42" high shall have three hinges. Locker doors 42" high and less shall have two hinges.

2.3.10 BODY: The body of the locker shall consist of 16 gauge upright sheets, tops, bottoms, shelves or compartment dividers, and 18 gauge backs. Tops, bottoms, shelves, and compartment dividers are flanged on all four sides; backs are flanged on two sides. Uprights shall be offset at the front and flanged at the rear to provide a double lapped rear corner. Uprights shall be perforated with diamond-shaped perforations for ventilation. 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.

2.3.11 INTERIOR EQUIPMENT: Single tier lockers over 42" high shall have one hat/book shelf. Other lockers do not require shelves. All single, double, and triple tier lockers shall have one double prong hook and three single prong wall 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 an aluminum number plate printed with clearly contrasting numerals not less than 1/2" high. Plates shall be attached with rivets near the top of each door.

2.3.13 COLOR: Lockers shall be finished in colors selected from Republic's collection of premier powder coat colors.

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

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

-OPTION 1: Assembly of all locker components shall be accomplished by the use of zinc plated, low round head, slotless, fin neck machine screws with Keps nuts, producing a strong mechanical connection.

-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.

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 the manufacturer. Use fasteners appropriate to load and anchoring substratum. Use reinforcing plates wherever fasteners could distort metal.

Various trim accessories where required, 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.