

GENERAL:

* Where features or accessories are specified, but are not used in or with all lockers on a project, it is important to specify "where used".

* Specifications for locker feature variations (gauges, perforations, etc.) should be located within the appropriate subsection of Part 2 - Products.

* The specification for various trim, accessories, and associated items such as benches should be located as in Section 2.3.X Other - see specifications for various types of lockers.

* Not all features and accessories can be incorporated into individual locker styles.

1. **GALVANNEALED STEEL:** To enhance corrosion resistance, locker components and trim may be manufactured from zinc-coated (galvannealed) steel according to the standard specification ASTM A 653/A.

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

2. **LEGS:** Lockers may be furnished with 6" legs for installations without a base. The front legs are extensions of the locker side frames. The rear legs used with zee or closed bases are adjustable angles attached to the body parts and are normally installed at extreme ends and every third upright.

SPECIFICATION: Lockers shall be provided with 6" legs by extending vertical 16 gauge side frame members with provision for floor anchoring.

3. **STANDARD LOUVERS:** Standard louvers are supplied in various patterns dependent upon locker door size as follows:

* Six louvers top and bottom for single-tier and double-tier lockers (72", 60", 48", 42", 36", and 30" heights).

* Two groups of two louvers in triple-tier, 3-high box, and 4-high box lockers (24", 20", and 18" heights).

* One group of two louvers in four-tier lockers (18" in height).

* One group of three louvers 4, 5, and 6-high box lockers (15", 14.4", and 12" heights).

SPECIFICATION: All locker doors shall have the manufacturer's standard louver arrangement.

NOTE: Louvers should not be specified for lockers with sound dampening panels.

4. **MINI - LOUVERS:** All locker doors may be provided with mini-louvers to provide ventilation while concealing locker contents.

SPECIFICATION: All locker doors shall be louvered with manufacturer's standard mini-louver pattern.

5. **VERTI-VENTS:** Verti-Vents consist of a series of obround perforations through the top and bottom horizontal return flanges of the locker door leaves. They are provided in flush doors to increase available ventilation.

SPECIFICATION: All tiered-type locker doors shall have the Republic Verti-Vent door ventilation system.

6. **DIAMOND PERFORATIONS - DOOR:** Punched 17/32" W x 1-1/16" H diamond perforations provide unrestricted ventilation and are ultimately stronger than expanded metal.

SPECIFICATION: Tiered locker doors shall be perforated with small diamond perforations.

NOTE: Diamond perforations only available on 14 gauge doors.

7. **FIRE EXTINGUISHER DOOR:** Locker doors (normally double-tier upper doors) may be provided with an opening and glazed with 1/8" DSA (double strength annealed) glass to provide visibility of a portable fire extinguisher. The minimum usable door size is 12" W x 36" H or 15" W x 30" H.

SPECIFICATION: Lockers designated on drawings shall be equipped for fire extinguisher visibility.

8. **WASTE BIN DOOR:** A gravity-actuated top hinge waste bin door is normally provided in the lower compartment of a double-tier locker which has its upper door prepared for fire extinguisher visibility. The waste bin door preparation consists of an opening 6" W x 6" H in the upper part of the locker door.

SPECIFICATION: Lockers designated on drawings shall be equipped with an opening for access to a contained waste bin.

9. **SOUND DAMPENING PANELS:** Panels for tiered locker doors are designed to stiffen the door surface and reduce sound levels when doors are slammed. They are die-formed to 3/16" depth and have a 1/2" full perimeter flange spot welded flush to the door surface. Louvers are not used when sound dampening panels are provided. Sound dampening panels are not provided on box locker doors.

SPECIFICATION: All locker doors shall have sound dampening panels welded to the inner surface of each door.

10. **BOLTED HINGES:** Locker doors may be bolted to the hinges rather than riveted for easier removal and replacement.

SPECIFICATION: All lockers shall have hinges bolted to the inside of doors using two (2) low round head, slotless machine screws and Keps security nuts.

11. **CONTINUOUS HINGES:** Continuous "piano" style hinges may be used on locker doors.

SPECIFICATION: All locker doors shall have a full height, 16 gauge staked pin continuous hinge, with full curl 1/2" knuckles and a flush 120 diameter pin on a standard flat assembly. Hinge shall be securely riveted to the frame and the door.

12. **DIAMOND PERFORATIONS - BODY:** 17/32" W x 1-1/16" H diamond perforations are provided in the uprights of Heavy Duty Ventilated, All-Welded Ventilated, and Single Point II Athletic lockers. Diamond perforations are only available on 16 gauge body parts.

SPECIFICATION: All uprights shall be 16 gauge with diamond perforations to provide ventilation.

13. **NON-STANDARD GAUGES:** Heavier than standard gauge locker body parts such as tops, bottoms, uprights or compartment dividers are often preferred for lockers subject to heavy usage. The heavier parts may be required to add a special feature such as diamond perforations.

SPECIFICATION: Tops shall be 16 gauge steel on all lockers with exposed flat tops (specify item and gauge).

14. **STAINLESS STEEL BOTTOMS:** Stainless steel bottoms may be used in areas where lockers may be exposed to excessive moisture or corrosive elements.

SPECIFICATION: All locker room lockers shall have (24 gauge / 16 gauge), unpainted, stainless steel bottoms.

15. **EXTRA SHELVES:** Extra shelves are often used in lockers for two students in order to supply extra horizontal storage or, in the lower portion of a locker, to separate shoe storage. Extra shelves may be specified in almost any location and may be used in conjunction with center partitions.

SPECIFICATION: Provide two (2) shelves in each single-tier locker located at 9" and 18" below the top (indicate location).

16. **ADDED HOOKS OR COAT RODS:** Standard hook and/or coat rod arrangement may be modified to add additional hanging locations.

SPECIFICATION: All lockers 18" or greater in depth shall be provided with a coat rod and three single-prong wall hooks.

17. CENTER PARTITIONS: Partitions divide a locker into two vertical compartments below a shelf or compartment divider. They are used in applications such as two students per locker or for separation of work or athletic clothing from street clothing.

SPECIFICATION: All lockers shall have 20 gauge, full depth, vertical partitions between bottom and shelf.

18. KEPS NUTS ASSEMBLY FASTENERS: Loose fasteners and lost bolt problems may be minimized when a locking type assembly fastener is used. It can be installed or removed with ordinary hand tools. Keps nuts fasteners are standard on Heavy Duty Corridor and Single Point II Corridor Lockers.

SPECIFICATION: All assembly fasteners shall consist of plated, low profile, slotless head machine screws and Keps nuts.

19. RIVETED ASSEMBLY: Lockers may be assembled with rivets and back-up washers to ensure tamperproof security, tight fastening and the elimination of loose or lost bolt problems. Removal of parts for rearrangement or replacement purposes can be done by drilling out rivets.

SPECIFICATION: All locker assembly fasteners shall be "pop" type rivets with aluminum bodies and steel mandrels.

20. TURN TYPE HANDLE: Heavy Duty 14 gauge tiered locker doors may be equipped with a turn type handle mounted on the face of the door in lieu of the standard recessed handle. The turn handle is an ergonomically shaped casting containing a padlock eye and painted the same color as the door. Locking is achieved with a three-point system consisting of two cold drawn steel rods that project into the top and bottom frames and a 12 gauge formed center cam which engages the locker side frame with a 1" wide latch.

SPECIFICATION: All tiered athletic doors to have a three-point latching system with a painted turn handle.

21. RECESS TRIM: Recess trim is used to cover the open space between lockers and walls or soffits when lockers are recessed into a wall. Trim shall be formed from 18 gauge sheet steel and have 3" face dimension.

SPECIFICATION: 3" face recess trim shall be provided around all wall recessed lockers. Trim shall be furnished in lengths as long as practical and attached to lockers with concealed fasteners. Corner caps shall be integral with jamb trim. Trim shall be finished to match lockers.

22. CLOSED BASES: 20 gauge closed bases are used on lockers with legs to close off the area beneath lockers and create a finished appearance.

SPECIFICATION: Provide closed metal front and end bases on all lockers having legs. Front bases shall be installed between legs without overlap or exposed fasteners. Bases shall be finished to match lockers.

23. ZEE BASES: Zee bases provide an alternative to concrete, masonry or wood bases. They are easily installed, provide a more level support surface and are finished to match lockers. The bases are available in 3", 4", and 6" heights and flanged outward at top for support of lockers and inward at the bottom for anchoring to the floor and to provide a toe space in front and concealed flange for floor anchoring at the rear.

SPECIFICATION: Provide 4" height, continuous metal Zee base. Lengths shall be as long as practical with reinforced hairline joints. Bases shall be finished to match lockers.

24. FRONT FILLERS: Obstructions such as piping, ductwork or columns often create gaps between groups of lockers which must be trimmed and filled. Use of angle and slip joint fillers to cover openings up to 18" wide is the common solution. This method provides concealed fasteners and is adjustable to suit job conditions. Fillers for openings between lockers shall be fabricated from 18 gauge sheet steel and formed in an unequal leg angle shape.* Slip joint angles shall be 20 gauge sheet steel formed in an angle shape with a double bend on one leg to form a pocket which provides adjustable mating with the angle filler. Attachment to lockers shall be by means of concealed fasteners.

SPECIFICATION: Locker manufacturer to provide necessary filler(s) for a complete assembly. Fillers shall be finished to match lockers.

25. **BOXED END PANELS:** 1" thick, 16 gauge boxed end panels are used to enhance appearance, cover lighter gauge standard locker end uprights and cover all exposed fasteners. One piece, double-row boxed end panels shall also have a center zee reinforcing member.

SPECIFICATION: 16 gauge concealed fastener boxed end panels shall be installed on all exposed ends of lockers. Panels shall be finished to match lockers.

26. **END FINISHING PANELS:** End finishing panels are additional 24 gauge upright cover sheets with perimeter fastenings only and are placed directly over standard multiple-punched locker end uprights. The extra sheets increase the total metal thickness to an 18 gauge equivalent and cover all fasteners and unused holes in the standard end upright except perimeter fasteners.

SPECIFICATION: End finishing panels to be installed over all exposed ends of lockers. Panels are 24 gauge sheet steel, fastened at perimeter only and finished to match lockers.

27. **CONTINUOUS SLOPING TOPS:** Continuous sloping tops are used to prevent accumulation of unwanted items on locker tops. They are furnished in 72" lengths with slip joint intermediate splices and end panels or hipped ends. Tops are installed over lockers with flat tops; they do not normally have a back panel since they are installed against a wall or have a ridge line in double row conditions.

SPECIFICATION: Lockers shall be provided with continuous sloping tops formed from 18 gauge or 16 gauge sheet steel (select one) with a slope that has a rise equal to 1/3 the locker depth (approximately 18 degrees). Tops shall be provided in lengths as long as practical and provided with slip joints and concealed fasteners at splice locations. Necessary end panels (or hip ends) and mitered corners shall be provided. Tops shall be finished to match lockers.

28. **INDIVIDUAL SLOPING TOPS:** Individual sloping tops replace the flat top normally furnished with a locker. Tops are furnished in one piece with a sloping front. Uprights and backs are extended upwards to meet the sloping top.

SPECIFICATION: Lockers shall be provided with 24 gauge sheet steel individual sloping tops. Tops shall be formed to a slope which rises 1/3 the locker depth (approximately 18 degrees). Uprights and backs shall be extended upwards to meet the sloping top. Tops shall be finished to match lockers.

29. BENCHES AND PEDESTALS:

BENCH SPECIFICATION: Locker benches shall be laminated hardwood, 1-1/4" full finished thickness. All corners are to be rounded and sanded. Top and edges have two coats of a clear finish with one coat on the bottom. Bench tops are to be 9-1/2" wide and furnished in lengths of 3' through 12' (whole foot increments).

ADA COMPLIANT BENCH SPECIFICATION: ADA compliant bench tops are to be 48" wide and 24" deep, laminated hardwood, 1-1/4" full finished thickness. All corners are to be rounded and sanded. Top and edges have two coats of a clear finish with one coat on the bottom. Four pedestals required. Benches shall have an overall height of 17-1/2".

STANDARD PEDESTAL SPECIFICATION: Bench tops to be mounted on pedestals consisting of 1-1/4" O.D. tubing with 10 gauge steel flanges welded to each end. The overall height of bench assembly shall be 17-1/2". Pedestals shall be finished to match lockers.

CAST IRON PEDESTAL SPECIFICATION: Pedestal used to support locker benches shall consist of a one-piece casting 16-1/4" tall with 6" diameter flanges on either end. The overall height of the bench assembly shall be 17-1/2". Pedestals shall be finished to match lockers.

MOVEABLE BENCH PEDESTAL SPECIFICATION: The moveable bench shall consist of a locker bench top mounted on two trapezoidal shaped aluminum pieces made from 3" wide by 1/4" thick bar stock, anodized in black color. The smooth bar stock is punched with two holes for floor mounting, if desired. Non-skid pads shall be provided for each pedestal. Overall height of the moveable bench shall be 17-1/2".

30. LOCKS: All Republic lockers are designed to accept built-in key locks or combination locks, padlocks and, in certain circumstances, electronic locks. Various lock bolt types must be used to accommodate the locker operating/locking system as follows:

- * SPRING BOLTS: Standard Box Lockers
- * DEAD BOLTS (vertically moveable): Tiered type lockers with lock bar and automatic pre-latching
- * DEAD BOLTS (retractable): Lockers with turn handle and rod (cremone) operation
- * PADLOCKS (key or combination type): All locker types
- * ELECTRONIC LOCKS (contact Republic for information): All tiered lockers with lock bars, ADA compliant lockers

SPECIFICATIONS: (Specify lock brand, if desired, location and locker type if appropriate.) All locks shall have bolt types appropriate to the mode of locker operation.

* BUILT-IN FLAT KEY LOCKS: All lockers shall be equipped with built-in flat number combination dialing and be capable of at least five different combination changes. Master key, combination change key, if required, and combination control charts shall be provided to the owner.

* PADLOCK-COMBINATION TYPE: Master keyed combination type padlocks shall be provided for all locker doors. Locks shall have three number combination dialing. Master key and combination chart shall be provided to the owner.

31. ADA ACCESSIBLE LOCKERS: Most Republic lockers can be customized to conform to ADA guidelines. While the ADA does not mention lockers specifically, it does refer to features that are found on or in lockers. The three major areas that require definition are the handle, the shelf and bottom location, and the placement of the locker within a room.

* HANDLE: ADA states that door hardware "...shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching or twisting of the wrist to operate." Republic's recessed handle fulfills the requirement and must be specified for any single, double, or triple-tier lockers. The box locker and single point latch handle may also meet ADA requirements.

* SHELF AND BOTTOM LOCATION: If the accessible locker is to have a shelf (as in a single-tier locker) it must be located no higher than 48" above the finished floor to conform to the reach requirements. In addition to the upper shelf requirement, the bottom of the locker must have a shelf at a minimum 15" off the finished floor so that any item placed or dropped on the bottom is accessible.

* LOCATION OF THE LOCKER WITHIN THE LOCKER ROOM LAYOUT: The locker must be in an unobstructed position that is at least 24" away from a wall or other obstacle. The space around the locker must be clear within a 60" diameter turning circle to allow easy access and egress by the parallel or frontal approach.

SPECIFICATION: Accessible lockers shall have a recessed handle, located in the locker room as indicated on the floor plan. Interior equipment shall consist of [on single tier: a book shelf and] coat hooks located a maximum of 48" off of the finished floor. One additional shelf shall be placed near the bottom of the locker so that it is no lower than 15" above the finished floor. A decal with the international symbol of accessibility shall be applied to the face of the locker door.