

Design-Tec® Lockers

General Information

Standard Sizes: (Locker body without plinth)

Height Options: 59-3/4" or 71-3/4" (1518mm) or (1822mm)

Width Options: 12", 15", 18", or 24" (305mm), (381mm) or (457mm) (610mm)

Depth Options: 12-3/8", 15-3/8", 18-3/8", 20-3/8", or 24-3/8"
(314mm), (391mm), (467mm), (518mm), or (619mm)

Custom Sizes Available – Design Engineers are available to help design and optimize floor plans and to assist with the development of custom and specialty units.

Locker Body And Doors - Phenolic panels are composed of decorative papers impregnated with melamine resin with a clear protective overcoat. This covering is integrally compression molded with a core consisting of solid phenolic impregnated kraft papers. All shelves, tops, and bottoms are 1/2" (13mm) thick and have ventilation holes. Doors are 1/2" (13mm) thick. Locker side panels are made of strong 3/8" (10mm) thick solid phenolic composite panels and locker backs are 1/4" (6mm) thick. The lockers are water resistant and rustproof inside and out. They can be steam jet cleaned or chemically disinfected which is ideally suited for sanitary environments such as hospitals. The lockers are also suitable for humid environments as well as unheated and/or unprotected indoor areas such as swim clubs or leisure centers.

Locking Systems Options - Hasp preparation for padlock are standard. Other options are Kenstar® or Medeco® (high security) keyed locks, Safe-O-Mat® coin retain or return, Safe-O-Mat® card operated, or MasterLock® built-in combination locks. Keyed and combination locks are master keyed.

Bench Seating - Powder coated aluminum with solid phenolic bench tops 12" or 16" wide stand-alone or built in.

Accessories – Single, double tier, and Z lockers are supplied with a top hook and two sidewall hooks. Finished end panels and filler panels are 1/2" (13mm) solid phenolic with same construction as the locker body.

Options – Sloping tops are 1/4" solid phenolic. Coat rods are clad with stainless steel.

ADA option – ADA compliant kits are available. ADA Shelf kit meets reach range requirements. ADA Door kit meets door pull requirements.

Colors - To be chosen from manufacturer's standard color range.

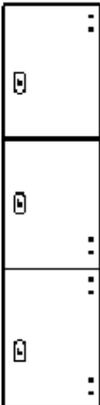
Locker Styles and Layouts



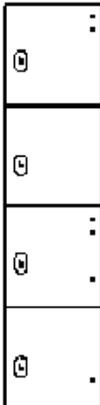
1 Tier



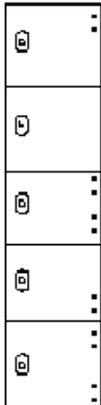
2 Tier



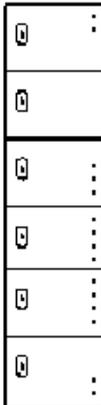
3 Tier



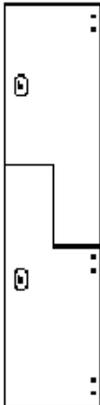
4 Tier



5 Tier



6 Tier



Z Tier

SECTION 10 51 00 (formerly 10 500)

Specifier Note: This product guide specification must be reviewed and edited to meet the project requirements, building codes, and to select product options. This section includes Design-Tec® solid phenolic lockers and benches as manufactured by The Young Group, Ltd., Fabricated Products Division. Consult with The Young Group, Ltd. Design Engineers for assistance in editing this specification for specific applications.

Part 1-General

1.01 Summary

Specifier Note: Design-Tec lockers are fabricated from solid phenolic flat panels based on resin saturated cellulose fibers manufactured under high pressure and temperature. The decorative surface is applied to the core during the panel manufacturing process. Therefore, the panel differs from HPL products because it is monolithic (the core and surface are homogeneous) and not glued to a core. Solid phenolic composite material resists moisture, graffiti, and chemicals.

A. Section includes:

1. Design-Tec solid phenolic lockers
2. Design-Tec solid phenolic benches

Specifier Note: The following section refers to products that match Design-Tec's aesthetic and performance characteristics and are typically required for similar applications and environments.

B. Related Sections:

1. 10 21 13 DesignRite® phenolic toilet partitions
2. 12 35 53 DesignLine® phenolic casework

1.02 Submittals

- A. Submittals:** Comply with procedures and quantities as indicated in Division 1 Submittal Procedure Section.
- B. Shop Drawings:** Submit shop drawings indicating room sizes, layout, locker dimensions, material thickness, trim, hardware, finishes, locks, base, doors, accessories, and installation details.
- C. Product Data:** Submit manufacturer's technical data for materials, fabrication, finishing, fastenings, hardware, and installation details.
- D. Samples:** Submit samples of edge details, colors, patterns, finishes, and textures.
- E. Closeout Documents:** Submit the following:
1. Operation and Maintenance data
 2. Warranty

1.03 Quality Assurance

A. Qualifications:

1. Fabricator shall have 10 years or more experience in fabrication of solid phenolic materials and shall be experienced in performing work of similar size and scope.
2. Fabricator shall be capable of providing field service representation.
3. Installer shall be approved by the manufacturer and be experienced in performing work of similar size and scope.

B. Pre-installation Meeting: Conduct pre-installation meeting [2] [_____] weeks prior to installation to verify project requirements and conditions.

1.04 Delivery, Storage and Handling

- A. Ordering:** Comply with supplier's ordering and lead-time guidelines to avoid delays.
- B. Delivery:** Deliver materials in the manufacturer's original protective packaging.
- C. Storage and Handling:** Store materials in an enclosed shelter providing protection from damage, temperature, humidity, and exposure to the elements.

1.05 Coordination and Project Conditions

- A. Field Measurements:** Before material fabrication, verify actual field measurements and show actual measurements on shop drawings.
- B. Coordination:** Coordinate field measurements with fabrication schedule construction progress to avoid construction delays.

1.06 Warranty

- A.** Submit executed copy of The Young Group limited 10-year warranty against defects in material and 2 years against workmanship signed by an authorized representative of The Young Group.

Part 2 - Products

2.01 Solid Phenolic Lockers:

- A. Basis of Design:** Drawings and specifications are based on Design-Tec® Lockers.

B. Manufacturer and Fabricator:

The Young Group, Fabricated Products Division, 1054 Central Industrial Drive
St. Louis, MO 63110 - Phone: 800-331-3080 - Fax: (314) 771-4597
Email: fabproducts@theyounggroup.net

- C. Model:** Design-Tec fabricated from solid phenolic composite material.

2.02 Materials

A. Panel Material:

1. Decorative papers impregnated with melamine resin on faces with a clear protective overcoat and integrally compression molded within a core consisting of solid phenolic impregnated kraft papers.

Specifier Note: Panel Material is available in Class B or Class A fire rating (ASTM E84). Select from either option. Class A is available made to order at extended leadtime.

2. Panel Material shall meet fire resistance per ASTM E84 [Class B] [Class A].
3. Colors:
 - a. Core: Black
 - b. Locker Interior: White

Specifier Note: Doors and ancillary panels are available in a wide range of colors at extended leadtime. A standard stocking range is available in shorter leadtime. Consult with manufacturer to avoid construction delays.

- c. Doors and Ancillary Panels: [Manufacturer's standard stocking color range] [Manufacturer's full color range].

B. Doors:

1. Material: 1/2" (13mm) thick solid phenolic composite material.
2. Corners: Rounded
3. Edges: Crescent profile; machine polished and free from tooling imperfections.
4. Limit Arm: Provide stainless steel limit arm to allow maximum opening to 90 degrees.

Specifier Note: Doors can be attached to hinge by through-bolting (standard) or blind fixing (optional). Through-bolting is recommended for vandal-prone and high traffic areas. Blind fixing is recommended only for light duty areas where vandalism is not of concern.

5. Door Fastening: [Through Bolted] [Blind Fixing].

C. Locker Bodies:

1. Exposed edges: Straight profile; eased edges to remove sharpness; machine polished and free from tooling imperfections.
2. Tops, bottoms, and intermediate shelves: 1/2" (13mm) thick solid phenolic composite material with ventilation holes.
3. Locker backs: 1/4" (6mm) thick solid phenolic composite material.
4. Locker Sides: 3/8" (10mm) thick solid phenolic composite material.

Specifier Note: Locker bodies are modular and can stand alone as a single unit. Locker body side panels have exposed fasteners. Applied finished end panels conceal fasteners when locker side is visible from the layout conditions. Filler panels enclose exposed fasteners when locker side meets a corner or wall. Finished end panels and/or filler panels are required for a finished installation.

D. Ancillary Panels: Finished end panels and closures shall be 1/2" (13mm) thick solid phenolic composite material.

E. Hardware

1. Hinges:

- a. Material: 304-grade stainless steel.
- b. Quantity: Three (3) for full height doors and two (2) for multi-tier units.

2. Interior hooks:

- a. Material: Gray nylon colored throughout.
- b. Top Hook: Swivel two prong; one per opening for 1, 2, and "Z" tiers.
- c. Side Hook: Single prong; two per opening for 1, 2, and "Z" tiers.

3. Retaining Bar: Provide stainless steel limit arm opening no more than 90 degrees.

4. Fasteners: Exposed fasteners shall be 304 stainless steel.

5. Fastener Application: Apply directly into or through the material.

6. Other Reinforcement: Aluminum or metal profiles for reinforcements shall not be permitted.

F. Ventilation

1. Interior Vent: Provide six 3/8" (10mm) diameter ventilation holes on tops, bottoms, and intermediary shelves. Provide three 3/8" (10mm) diameter ventilation holes on 'Z' type intermediary shelves.

2. Door Vent: Provide minimum of 20 square inches opening of front ventilation for full tier 12" wide x 72" high. For other styles, provide front ventilation 1.43 square inches per lineal foot of door perimeter.

G. Base

Specifier Note: Edit this paragraph to indicate curb type(s) and indicate on plans.

- 1. Base not furnished with Locker: [Curb mounted] [_____]
- 2. Base furnished with locker: [Adjustable leg mounted: 4" adjustable to 5 1/2", ABS plastic mounting-leveling leg] [Frame Mounted: 2" by 2" square aluminum frame, 18-22" high with fully adjustable mounting feet [with] [without] integral bench]

2.03. Size:

Specifier Note: Indicate locker size(s). Each locker "frame" is modular and includes the overall height of the locker (less the curb). Consult manufacturer for custom sizes.

A. Number of Doors: [1] [2] [3] [4] [5] [6] [2, Z type]

B. Overall Height: [59-3/4"] [71-3/4"] [_____]

C. Overall Width: [12"] [15"] [18"] [24"] [_____]

D. **Overall Depth:** [12-3/8"] [15-3/8"] [18-3/8"] [20-3/8"] [24-3/8"] [_____]

2.04. Accessories and Options

Specifier Note: Select required accessories and delete items not required. Consult manufacturer for accessory recommendations.

Specifier Note: A choice of locking options are available to meet the various needs of locker users. Consult with manufacturer for lock selection recommendation. Specify lock selection(s) and indicate on plans where applicable.

A. **Locking System:** [Hasp preparation for padlock] [Kenstan[®] spring-bolt key lock] [Medeco[®] (high security) key locks] [Safe-O-Mat[®] coin retain key lock] [Safe-O-Mat[®] coin return key lock] [Safe-O-Mat[®] card (mechanical) operated key lock] [MasterLock[®] built-in combination lock] [_____].

Specifier Note: Sloping tops are optional, flat tops are standard and are included as part of the locker body. Specify slope or flat tops.

B. **Locker Top:** Top shall be [Flat] [Sloping from 1/4" (6mm) thick solid phenolic composite material].

C. **Door Identification:**

1. Number Plates: [Identification plates to be black background with white fonts and surface mounted with permanent adhesive integral with the locking mechanism] [Brushed Aluminum Disk 1-1/2" diameter with permanent adhesive] [Brass Disk 1-1/2" diameter with permanent adhesive] [Stainless Steel Disk 1-1/2" diameter with permanent adhesive].
2. Fonts to be a minimum 1/2" high and up to four alphanumeric characters.
3. Numbering sequence to be provided by architect.

D. **Hang Rod:** Stainless steel clad steel.

E. **Additional Door Ventilation:** [Holes through door in [diamond] [circle] pattern] [_____]

F. **ADA Accessibility Options:**

Specifier Note: Consult building codes and determine requirements for Accessibility.

1. Shelf Kit: Shelf kit shall act as false bottom to meet reach range requirements.
2. Door Kit: Door kit shall include additional door handle to meet door pull requirements and shall include handicap signage, logo, or similar identification.
3. Where lockers are provided in accessible spaces, at least [five percent (5%)] [_____] but not less than [one (1)] [_____], of each type of locker shall comply with accessibility guidelines.

2.05. Solid Phenolic Benches

Specifier Note: Edit this paragraph to indicate bench type(s) or delete as required.

A. Non-integrally mounted:

[H-frame: 2" by 2" powder coated aluminum frame, adjustable from 18" to 22" high, with minimum of 1/2" thick bench top.]

[Pedestal mounted: 2" by 2" powder coated aluminum frame, 18" high, with 3/4" thick bench top.]

[Wall mounted: Powder coated aluminum brackets with 3/4" thick, 12" wide bench top.]

B. Integrally mounted: 3/4" thick solid phenolic composite material cantilevered from [locker H-frame base] [_____] with powder coated aluminum supports.

Part 3 - Execution

3.01 Examination: Examine site conditions before locker installation. Notify architect of unacceptable areas. Do not install locker until unacceptable conditions have been corrected.

3.02 Installation:

- A. Install lockers in locations as shown on shop drawings per manufacturer's instructions.
- B. Install lockers plumb, level, square, rigid, and flush.
- C. Install all required trim, fillers, end panels, and closures per manufacturer's instructions.
- D. Use hardware supplied or recommended by the manufacturer.
- E. Attach number plates to doors as indicated on shop drawings.
- F. Correct and/or replace damaged components as directed by architect.

3.03 Adjustment

- A. Adjust doors and locks for smooth operation without binding.
- B. Lubricate door hinges and locks per manufacturer's instructions.

3.04 Cleaning

- A. Clean all surfaces in accordance with manufacturer's instructions.
- B. Do not use abrasive cleaners.

End of Section