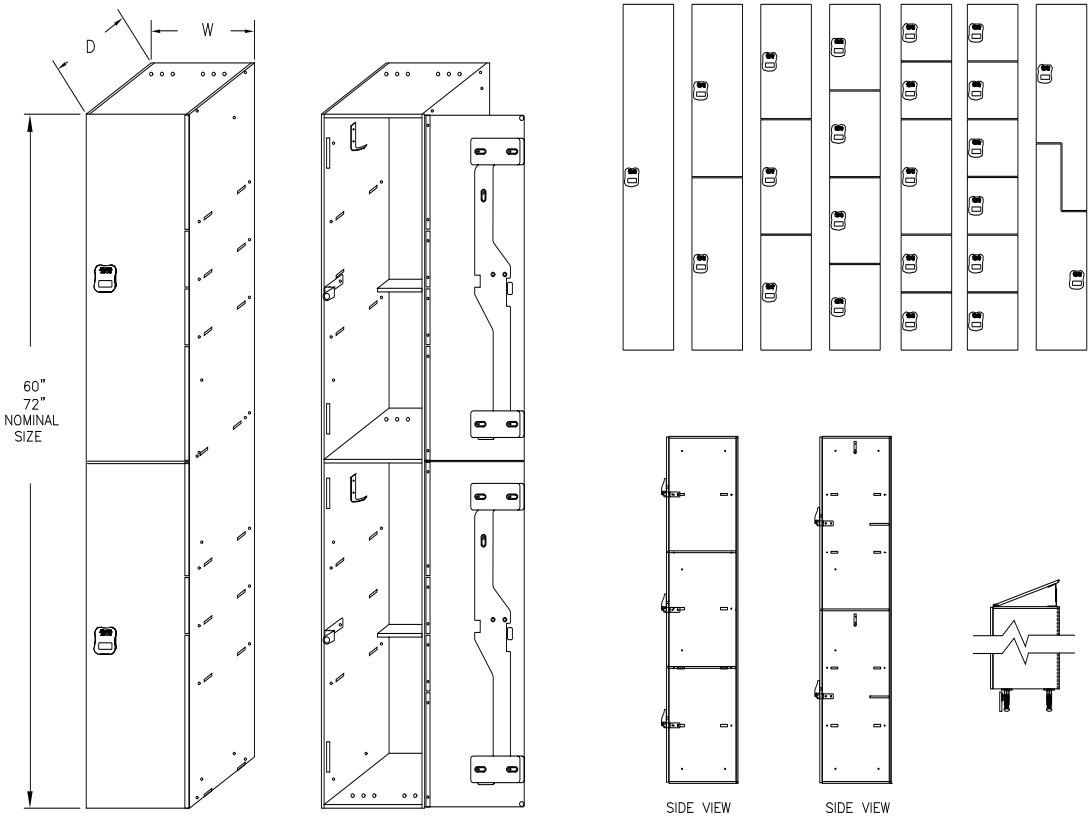
COLUMBIA LOCKERS
A Division of PSISC®

PolyLife® 1831L

Technical Data Sheet

U.S. Patent Numbers: 3,287,233-3,506,058-3,518,028-7,828,399
Other Patents Pending

Standard HDPE Locker



MATERIALS

General: Material shall be Columbia PolyLife® Plastic HDPE. Surface and edges shall be nonporous. Provide material which has been selected for uniform color, surface flatness and even texture. Exposed surfaces which exhibit discolorations, pitting, seam marks, roller marks, stains, telegraphing, or other imperfections on finished units are not acceptable. Locker materials shall contribute LEED® Certification credits for New Construction, Existing Buildings and Schools. MR 4.1, 4.2, 5.1 & 5.2, and EQ 4.

SPECIFICATIONS

Locker Doors: Locker Door shall be the full width of the Locker Uni-Box® and shall be frameless, allowing access to the entire width of the Locker. Framed Doors are unacceptable. Perimeter ventilation shall provide superior ventilation properties to traditional framed doors. Doors shall be attached to the Uni-Hinge® with Stainless Steel Theft Proof Torx Head with Pin, Tri-Lobular Screws.

Locker Body: Locker Body shall incorporate the Uni-Box® Locker Construction to allow for multiple Locker configurations within the same Locker Body. The Locker Body shall be .375" (10 mm) thick and shall be white in color. Homogenous natural color is not acceptable. The Uni-Box® shall incorporate mortise and tenon construction and shall be mechanically fastened together with Stainless Steel fasteners. Locker Shelves shall be mortised into side walls of the Uni-Box® at location determined by Architect. Relocation of Shelves in the field shall be possible without the need for special tools or welders. The Uni-Hinge® shall be attached to the Uni-Box® with Stainless Steel Theft Proof Torx Head with Pin, Through Bolts. Lockers shall arrive at construction site fully assembled.

Edition: PolyLife® 1831L /002

COLUMBIA LOCKERS
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Standard HDPE Locker

SPECIFICATIONS (continued)

Locker Hinges: Provide one (1) Uni-Hinge® for each Locker Frame. Uni-Hinge® shall be made of continuous Heavy Duty Extruded 6063-T5 Aluminum. Pivot Pin shall be made of Type 304 Stainless Steel. Pivot Pin shall be .1875" (5 mm) in diameter and shall be made in two parts and shall extend the length of the Locker Body. Hinge knuckles shall be separated with two nylon washers. Hinge leaf that attaches to Locker Body shall be continuous and shall extend the full height of the Locker Body. Single to Six Tier Lockers shall use one Uni-Hinge®. Uni-Hinge® shall be attached to the Locker Uni-Box® with Stainless Steel Theft Proof Torx Head with Pin, Tri-Lobular Screws. Uni-Hinge® shall be powder coated to match Locker Door.

Locker Handle: Locker Handle shall be made of injection molded HDPE or similar material and shall have an Antimicrobial efficacy rating of 4.0 or greater. Handle shall move up and down in a vertical movement and shall require less than 5 lbs. of lifting force to operate in accordance with ADA requirements. When used in conjunction with Lock Hasp, handle shall have an integral 11 Gauge Type 304 Stainless Steel Hasp Bar that shall align with the Locker Hasp Bar when in the lower or closed position. Locker Hasp Bar is to be used with padlocks (padlocks are not included).

Latching Mechanism: The Latching mechanism shall consist of an Activation Bar and multiple Slide Bars made of the same or similar materials as the Locker Uni-Box® and Door. Security of locker contents will be assured by use of multiple latching points and an additional 11 Gauge Type 304 Stainless Steel Hasp Bar mounted to the Locker Body that extends through the face of the Door in alignment with the Locker Handle Hasp for use with a padlock (padlocks not included). Door will close and latch without the need for manually raising the Locker Handle. Latch mechanism shall withstand a sudden impact (slamming) force of 300 lbs.

Coat Hooks: Coat Hooks shall be fabricated of 11 Gauge Type 304 Stainless Steel with a Satin Finish. All edges shall be polished and smooth. Coat Hooks shall be attached to the Locker Body with Stainless Steel Theft Proof Torx Head with Pin, Tri-Lobular Screws or Through Bolts. Provide two (2) Coat Hooks for Single Tier Lockers and two (2) for Double Tier and "Z" Lockers. Plastic and aluminum Coat Hooks are unacceptable.

Number Plates: Provide a Number Plate for each Door or opening, in the sequence as indicated on the drawings. Number Plate shall be engraved from the back side to prevent the accumulation of dirt and grime and shall be recessed into the Locker Door Handle. Surface mounted Number Plates are unacceptable.

Locker Legs: Provide Locker Legs for all Lockers except recessed and base mounted Lockers. Locker Leg assembly shall be structural and shall be fully adjustable to provide for leveling and plumbing of Locker Body. Provide Toe Kick Plates with all necessary hardware for attaching to the Locker Leg.

INSTALLATION

1. Comply with manufacturer's written installation instructions. Install Lockers rigid, straight, plumb and level.
2. Through Bolt Locker Boxes together with Stainless Steel Theft Proof Torx Head with Pin, Through Bolts.
3. Anchor Locker Boxes to the wall with provided anchor devices.
4. Install Slope Tops, End Panels, Filler Strips and accessories in accordance with written instructions

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QUALITY STANDARDS

Screw Holding Strength: When tested in accordance with ASTM D1037, Direct Screw Withdrawal Test, Locker materials shall withstand a direct pull force that exceeds 1,100 lbs per fastener.

Water Absorption Requirements: When tested in accordance with ASTM D570, Locker materials shall have a Water Absorption Rate of less than 0.09%.

Tensile Strength: When tested in accordance with ASTM D638, Locker materials shall have a Tensile Modulus of 339,000 PSI, a Tensile Strength at Yield of 4500 PSI, and a Tensile Strength at Break of 2030 PSI.

Flexural Properties: When tested in accordance with ASTM D790, Locker materials shall have a Flexural Modulus of 235,000 PSI.

Environmental Stress-Crack Resistance: When tested in accordance with ASTM D1693, Locker material shall exceed 15.0 HR.

LEED® Contribution Requirements : Locker materials shall contribute LEED® Certification credits for New Construction, Existing Buildings and Schools. MR 4.1, 4.2, 5.1 & 5.2, and EQ 4.

FABRICATION

General: Provide factory pre-assembled Locker units. Lockers shall be complete with all hardware and accessories listed above. Knock down units are unacceptable.

Slope Tops and End Panels: Provide Slope Tops and End Panels as required to complete the installation of the Lockers.

STANDARD SIZE OPTIONS				
Widths	**9"**	**12"**	**15"**	**18"**
Depths	**12"**	**15"**	**18"**	
Heights	**60"**	**72"**		

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