Architectural Specifications, Section 10500 Phenolic Lockers

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1.0 GENERAL

1.1 SECTION INCLUDES

A. Phenolic Lockers
B. Phenolic Athletic Lockers
C. Phenolic Wardrobe Cabinets
D. Phenolic School Cubbies
E. Phenolic Locker Benches
F. Bench Pedestals
G. Locker Hardware and Accessories

1.2 RELATED DOCUMENTS

A. Drawings and general provisions of the contract, including general and supplementary materials
B. Wall backing and floor support to anchor lockers and bench pedestals

1.3 REFERENCES

A. American Society for Testing and Materials:
    1. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Material
    2. ASTM D6578 Standard Practice for Determination of Graffiti Resistance
    3. ASTM D1037 Direct Screw Withdrawal Test
    4. ASTM D570 Standard Test Method for Water Absorption
    5. ASTM A167, 18-8, Type 304 Cast Stainless Steel
B. National Fire Protection Association (NFPA)
C. UBC – Requirements for Handicapped
D. ADA, Accessibility Guidelines for Buildings and Facilities

1.4 QUALITY ASSURANCE

A. Locker body: The locker, including shelves, shall incorporate shrink pin construction and shall be mechanically fastened with stainless steel fasteners.
B. Water absorption requirements: when tested in accordance with ASTM D570 locker materials shall have a water absorption rate of less than 0.37%.
C. Graffiti resistance requirements: When tested in accordance with ASTM D6578, locker materials shall prove resistant to all chemicals tested for a period of 1 to 10 minutes and shall leave no mar or blemish on the surface when cleaned. Locker materials shall have guaranteed surface clean ability from permanent markers and shall have non-ghosting properties.

D. Scratch resistance requirements: When tested in accordance with ASTM D2197, locker materials shall prove to be scratch resistant when maximum load values in excess of 10 kilograms.
E. Flame spread: When tested in accordance with ASTM E84, lockers, athletic lockers, wardrobe cabinets, school cubbies and locker bench materials shall meet or exceed all requirements for class b flame spread rating and smoke developed.
    1. Flame spread shall not exceed 75.
    2. Smoke developed shall not exceed 450.
F. Impact resistance requirements: When tested in accordance with ASTM D2794, locker materials shall withstand an impact force value in excess of 45 inch/lbs.
G. Screw holding strength: When tested in accordance with ASTM D1037, direct screw withdrawal test, locker materials shall withstand a direct pull force that exceeds 2,500 lbs per fastener.
H. Tensile strength: locker materials shall have a modulus of elasticity of 1.55 million psi.
I. Shear strength: locker materials shall have a shear strength of 2,000 psi minimum.
J. Compression strength: locker materials shall have a compression strength of 24,000 PSI minimum.
K. 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.

1.5 SUBMITTALS

A. Product Data: Available upon request, including:
    1. Preparation instructions and recommendations.
    2. Storage and handling requirements and recommendations.
    3. Installation methods.
    4. Product date specific to materials used in construction of locker.
B. Shop Drawings: Indicate locker plan layout for Hollman contracted installations, component profiles and elevations, schedule of finishes, and accessories.

1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

A. Store products in a dry, ventilated area until ready for installation.
B. Protect finishes from moisture, soiling and damage during handling.

1.7 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer’s absolute limits.
B. During and after installation, maintain same temperature and humidity conditions in building spaces as will occur after occupancy.
C. Protect locker finish and adjacent surfaces from damage.

1.8 WARRANTY

A. Provide manufacturer's Twenty (20) year written limited warranty against breakage, corrosion, delamination and defects in workmanship of all phenolic components; to be replaced without charge, excluding labor.

2.0 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: Hollman Inc.; 1825 Walnut Hill Lane, Irving, TX 75038, Toll Free(800) 433-3630, Fax (972) 815-2921, Email: lockers@hollman.com.

B. Substitutions: Not permitted.

C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 MATERIALS

A. Material shall be solid phenolic with a high pressure melamine matte finish surface made as an integral part of the core material.

B. Material Thicknesses:

1. Doors, Slope Tops, End Panels, and Toe Kick Plates – Minimum .50" (13 mm) Finished Thickness.
2. Locker boxes, tops, bottoms, and shelves – Minimum .375" (10 mm) Finished Thickness. Sides and Locker Backs – Minimum .3125" (8 mm) Finished Thickness.
3. Locker Pedestal Benches – Minimum .75" (19 mm) Finished Thickness.
4. Locker Bench Tops – Minimum .75" (19 mm) Finished Thickness.

C. Colors: To be selected by project architect from Hollman's standard colors.

D. Locker Doors: Locker door shall be the full width of the locker box and shall be frameless, allowing access to the entire width of the Locker.

E. Locker Body: The locker body shall be white or grey in color, with a black core. Locker body shall be White or Grey in color. Locker shall incorporate Shrink Pin construction for alignment and will be mechanically fastened with stainless steel fastener. Hinges will be attached to the locker box with stainless steel theft proof torx-head screws. Lockers shall arrive at construction site fully assembled.

F. Slope tops, end panels, and toe kick plates: shall be manufactured of the same color, thickness and material as the locker doors.

2.3 HARDWARE

A. Locker hinges: hinges shall be concealed and shall be made of 14 gauge type 304 stainless steel and have a satin finish. Hinge shall have five (5) knuckles and shall allow door to open 90°.

B. Locker hasp bar: hasp shall be fabricated of 11 gauge type 304 stainless steel. Hasp shall be attached to the locker body with stainless steel screws.

C. Coat hooks: coat hooks shall be fabricated of 12 gauge type 304 stainless steel with a satin finish. All edges shall be polished and smooth.

D. Number plates: provide a number plate for each door or opening, in the sequence as indicated on the drawings.

E. Locker legs: Locker legs provided 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.

F. Bench pedestals: provide all necessary stainless steel fasteners to secure bench pedestal to the floor and bench top. Select one (1) of the following:

1. Black Powder Coated Gauge Steel. Bench Pedestal shall be constructed of 11 Gauge Steel and shall be 16.5" High. Center post shall be load bearing and shall extend from the floor to the bottom of the Bench Top.
2. Stainless Steel. Bench Pedestal shall be constructed of 11 Gauge Type 304 Stainless Steel and shall be 16.5" High. Center post shall be load bearing and shall extend from the floor to the bottom of the Bench Top.
3. Black Powder Coated Aluminum: Bench Pedestal shall be 16.5" High. Center post shall extend from the floor to the bottom of the Bench Top and shall be made of 2" square tubing.
4. Black Powder Coated Aluminum Wall Bracket. Wall Bracket shall be made of .125" thick Aluminum Plate and shall have a Black Powder Coated Finish. Each Wall Bracket shall be capable of withstanding a sudden impact of 300 lbs.

2.4 FABRICATION

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

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

3.0 EXECUTION

3.1 EXAMINATION

A. Do not begin installation until adjacent substrates and finishes have been properly prepared.

B. Verify prepared bases are in correct position and configuration.

C. If preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

C. Verify adequacy of backing and support framing.

3.3 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. If Hollman is not contracted for installation, client must unload lockers from the delivery truck.

C. Set and secure lockers in place; rigid, plumb, and level.
D. Use concealed joint fasteners to align and secure adjoining cabinet units.
E. Conceal screw heads with plastic caps to match locker interior.
F. Secure lockers with anchor devices to suit substrate materials. Minimum Pullout Force: 100 lb (445 N).
G. Install end panels, filler panels, tops and bases as indicated on the approved shop drawings.
H. Install accessories.

3.4 ADJUSTING

A. Adjust moving or operating parts to function smoothly and correctly.

3.5 CLEANING

A. Clean locker interiors and exterior surfaces.

3.6 PROTECTION

A. Protect installed products until completion of project.
B. Touch-up, repair or replace damaged products before substantial completion.