

SECTION 105100

TRESPA® PHENOLIC LOCKERS & BENCHES

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Solid phenolic lockers.
- B. Solid phenolic benches.

1.02 RELATED SECTIONS

- A. Documents affecting work in this section include, but are not limited to the GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS and Sections in Division 1 - GENERAL REQUIREMENTS of these Specifications.
- B. 092600 - Gypsum Board Systems.
- C. 093000 - Ceramic Tile.
- D. 102113 - Bathroom Partitions.
- E. 104000 - Signage for Lockers.

1.03 DESCRIPTION

- A. Lockers:
 - 1. Curb Mounted: curb/base by others
 - 2. Adjustable Leg Mounted: 4" to 6" fully adjustable, nylon mounting leg
 - 3. Frame Mounted with Integral Bench: 2" by 2" square aluminum frame, 18" high with fully adjustable mounting feet. Integral bench frame optional.
- B. Benches (not integrally mounted): H-frame or post mounted, 2" by 2" aluminum frame, powder coated 18" high with 3/4" Trespa bench top.

1.04 SUBMITTALS

- A. Submittals, procedures and quantities are specified in Section 01340.
- B. Shop Drawings: Submit shop drawings indicating sizes, dimensions, thickness, trim, hardware, finishes, 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 Trespa color and pattern selected for verification.

1.05 DELIVERY, STORAGE AND HANDLING

A. Do not deliver lockers until spaces to receive them are clean, dry, and ready to locker installation. Deliver and store materials in the manufacturer's original protective packaging. Store materials in an enclosed shelter providing protection from damage and exposure to the elements.

B. Protect lockers from damage during delivery, handling, storage and installation.

1.06 COORDINATION

A. Field Measurements: Secure field measurements before preparation of shop drawings and fabrication where possible, for proper and adequate fabrication and installation of the work.

B. Coordination: Furnish inserts and anchorage, which must be built into other construction for installation of locker and benches.

1.07 WARRANTY

A. Trespa panels to be warranted against delamination for 10 Years. The factory authorized fabricator, product installer and phenolic manufacturer must sign the warranty and submit a copy to the General Contractor. The project name must be on the warranty.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURER

A. Drawings and specifications are based on lockers fabricated using Trespa solid phenolic panels: Trespa North America, 800-487-3772.

1. Represented locally by W.H. Steele Co., 909-930-0831, E-Mail: info@whsteele.com.

B. Approved Fabricators:

1. Alan Lewis "Titan" Lockers, Santa Ana, CA 714-434-9407.

2. Accutec Manufacturing, Santa Ana, CA 714-549-2015.

2.02 MATERIALS

A. Doors, locker bodies, shelves, sloped tops and end panels shall be made from

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

1. To ensure panel quality and consistency, panel must be at least 93 lbs./cubic foot to ensure full saturation of Kraft core.

B. Panels to be U.L. registered and labeled for quality consistency.

C. Chemical Resistance: Evaluation of chemical resistance is based on SEFA's (Scientific Equipment and Fixture Association) standard list of 49 chemicals / concentrations, their required methods of testing and their minimum acceptable results as a means of establishing a minimum acceptable level of performance for all exposed and semi-exposed surfaces.

D. Panels to have screw pullout strength minimums per the following chart (lbs.):

Screw depth:	#6	#8	#10	#12	1/4"	5/16"	3/8"	7/16"	1/2"
3/8" panels:	190	220	260	290	340	420	510		
1/2" panels:	250	300	340	390	450	560	680	790	900
3/4" panels:			510	590	680	850	1,000	1,200	1,400

E. Uniform load to cause no more than 1/4" deflection at center of the span:

Thickness:	12" x 24"	12" x 36"	12" x 48"	24" x 36"
3/8" panels:	170	50	20	100
1/2" panels:	370	110	45	220
3/4" panels:	1,400	400	170	800

F. Panel performance requirements:

1. Modulus of elasticity: 1,500,000-psi minimum.
2. Shear strength: 2000-psi minimum.
3. Compressive strength: 24,000-psi minimum.
4. Weight: 93 lbs. per cubic foot maximum.
5. Flame spread (ASTM E-84): Class 1A (25).
6. Non-porous surface and edges.
 - A. Will not support micro-organic growth.
 - B. Water absorption: 3% maximum.

2.03 FABRICATION

A. Component thickness schedule:

1. Doors: 1/2".
2. Locker bodies: 3/8".
3. End panels, closures, tops, bottom, and any intermediate shelves: 1/2".
4. Backs: 1/4".

B. Doors: Doors shall be with radiused corners and polished edges.

1. Colors and patterns as selected from Trespa standards.

- C. Locker Bodies: Tops, bottom and any intermediate shelves shall be fixed together with special 316 grade stainless steel fasteners directly into the Trespa. No aluminum or metal profiles or reinforcements shall be permitted.
- D. Hardware:
 - 1. Hinges shall be 316 grade stainless steel - three for full height doors and two for multi-tier units. Hinges shall be bolted through the door and not tapped into the Trespa.
 - A. Locking System (chosed between following options):
 - a. Hasp preparation for padlock by others.
 - b. Built-in key locks.
 - c. Medeco key locks.
 - d. Masterlock recessed combination lock.
 - e. Coin operated locks.
 - 3. Interior hooks shall be grey nylon, colored throughout.
 - 4. Provide stainless steel limit arm opening no more than 90 degrees.

2.04 LOCKER CHARACTERISTICS

- A. Style: One-Tier / Two-Tier / "Z" / Three-Tier / Four Tier / Five Tier / Six Tier
- B. Size:
 - 1. Width: 12" / 15"
 - 2. Depth: 12" / 15" / 18" / 20"
 - 3. Height: 60" / 72"
- C. Top: Sloped / Flat
- D. Base: concrete base / 4" adjustable leg / phenolic toe kick

2.05 BENCH CHARACTERISTICS

- A. Sizes:
 - 1. Width: 12" or 16"
 - 2. Length: 2' to 8' (12" increments)
 - 3. Thickness: 3/4"
- B. Frame: 2" x 2" square aluminum anodized tubing
 - 1. "H" frame for movable benches
 - 2. Pedestals for fixed benches
 - 3. Integral bench 18" above floor, 3" horizontal gap from face of lockers, 1 1/4" vertical gap below level of locker doors.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Install lockers as per shop drawings on base provided by others or on a concealed adjustable base or on an 18" high integral bench.
 - 1. Install all required trim and closures.
 - 2. Leave lockers clean after installation.

- A. Anchor lockers to floors and walls at intervals recommended by manufacturer, but not more than 36" o.c. Install anchors through backup reinforcing plates where necessary to avoid distortion, using concealed fasteners.

- B. Fit exposed connection of trim, fillers, and closures accurately together to form tight, hairline joints, with concealed fasteners and splice plates.

3.02 ADJUSTING, CLEANING AND PROTECTION

- A. The lockers and benches shall be protected from damage during delivery, handling and storage.

- B. Adjust doors and latches to operate easily without binding. Verify that locking devices operate properly.

- C. Clean interior and exposed exterior surfaces, and keep them free of paint, plaster, cement, scratches, etc.

- D. Protect lockers from damage, abuse, dust, dirt, stain, or paint. Do not permit locker use during construction.

END OF SECTION