

SECTION 10 51 16

WOOD LOCKERS

(Cubiform® Leisure Lockers by AAPG — Phenolic-Body Lockers with 5-Piece Solid Wood Doors)

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Factory-fabricated leisure lockers with solid phenolic bodies and 5-piece solid wood doors for club, spa, golf, hospitality, and fitness facilities, including locker bodies, wood doors, shelves, hardware, bases, number plates, and accessories.
 - 1. One-tier lockers.
 - 2. Two-tier lockers.
 - 3. "Z" lockers.
 - 4. [Sloping tops, bases, filler panels, and finished end panels.]
- B. Products Not Furnished or Installed Under This Section:
 - 1. In-wall blocking, backing, and reinforcement for wall anchorage.
 - 2. Concrete bases, housekeeping pads, and floor finishes.
 - 3. [Benches and pedestals, where specified separately.]
 - 4. [Padlocks for hasp-equipped lockers, furnished by the Owner.]
 - 5. Field finishing of adjacent construction.

1.2 RELATED SECTIONS

- A. Section 06 10 00 - Rough Carpentry: In-wall blocking and backing for anchorage.
- B. Section 06 41 00 - Architectural Wood Casework: Matching solid wood millwork and finishes.
- C. Section 09 21 16 - Gypsum Board Assemblies: Wall substrates receiving anchorage.
- D. Section 09 30 00 - Tiling: Floor and wall finishes at lockers.
- E. Divisions 26 and 27 - Electrical and Communications: Power and data for electronic locks, where scheduled.

1.3 REFERENCES

- A. Architectural Woodwork Institute (AWI):
 - 1. AWI Architectural Woodwork Standards (AWS), latest edition — solid wood doors and finishing.
- B. ASTM International (ASTM):
 - 1. ASTM A240 and ASTM A666 - Stainless Steel Sheet, Strip, and Plate.
 - 2. ASTM B221 - Aluminum and Aluminum-Alloy Extruded Bars, Rods, and Shapes.
 - 3. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- C. American National Standards Institute (ANSI):
 - 1. ANSI/HPVA HP-1 - Standard for Hardwood and Decorative Plywood, where used.
- D. National Electrical Manufacturers Association (NEMA):
 - 1. NEMA LD 3 - High-Pressure Decorative Laminates (phenolic body melamine faces).
- E. U.S. Environmental Protection Agency (EPA) and California Air Resources Board (CARB):
 - 1. 40 CFR Part 770 (TSCA Title VI) and CARB ATCM 93120 - Formaldehyde emissions from composite wood products.
- F. International Code Council / American National Standards Institute (ICC/ANSI):
 - 1. ICC/ANSI A117.1 - Accessible and Usable Buildings and Facilities.
- G. U.S. Department of Justice: 2010 ADA Standards for Accessible Design (28 CFR Part 36).
- H. International Building Code (IBC), Chapter 8 - Interior Finishes.
- I. Forest Stewardship Council (FSC) chain-of-custody certification, where required by the Project.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Conference: Conduct a conference at the Project site before installation. Review substrates, blocking, floor conditions, layout and numbering, accessible locker locations, wood species and finish, lock type and keying, and protection.
- B. Coordination: Coordinate blocking, base and floor conditions, accessible locker quantities and locations, and power and data rough-in for electronic locks before fabrication.

1.5 SUBMITTALS

- A. Product Data: Submit manufacturer's literature describing body construction, wood door construction, species and finish, tier configurations, sizes, hardware, locks, bases, and accessories.
- B. Shop Drawings: Submit plans and elevations showing locker layout, tier configurations, sizes, numbering sequence, accessible lockers, base conditions, anchorage, ventilation, lock type and keying, and door style.
- C. Samples:
 - 1. Wood Door Sample: Corner section of a 5-piece solid wood door showing species, grain, panel profile, joinery, and finish.
 - 2. Phenolic Color Samples: Manufacturer's full range for each phenolic body color and finish specified.
 - 3. Finish Samples: Showing the specified transparent wood finish system, stain, and sheen.
 - 4. Hardware Samples: One of each hinge, lock, number plate, and pull specified.
- D. Certificates and Test Reports:
 - 1. Surface burning characteristics (ASTM E84) for the specified materials, where required.
 - 2. Composite-panel formaldehyde compliance documentation (TSCA Title VI / CARB), where composite is used.
 - 3. FSC chain-of-custody documentation, where required by the Project.
 - 4. Manufacturer certification that accessible lockers comply with ICC/ANSI A117.1 and the 2010 ADA Standards.
- E. Closeout Submittals: Submit cleaning and maintenance instructions, warranty documentation, lock keying records, and a record of approved species, finish, hardware, and product codes.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer regularly engaged in the production of wood and phenolic lockers of similar type, scope, and quality.
- B. Installer Qualifications: Installer experienced in locker installation of comparable scope and approved by the manufacturer.
- C. Wood Door Grade: Provide solid wood doors complying with the AWI Architectural Woodwork Standards, [Premium] [Custom] Grade.
- D. Surface Burning Characteristics: Where required, provide materials complying with the interior finish requirements of IBC Chapter 8 for the occupancy and location indicated, when tested in accordance with ASTM E84.
 - 1. Required Rating: [Class A.] [Class B.] [Class C.] [As required by the authority having jurisdiction.]
- E. Accessibility: Provide accessible lockers complying with ICC/ANSI A117.1 and the 2010 ADA Standards, with accessible tier locations within permitted reach ranges and hardware operable with one hand and without tight grasping, pinching, or twisting of the wrist.
- F. Single-Source Responsibility: Provide lockers, doors, hardware, locks, and accessories under single-source responsibility.
- G. Mockup: [Provide one complete locker of each tier configuration specified, including wood door, finish, hardware, and lock, for review. The approved mockup establishes the minimum standard.]

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver lockers in protective packaging identified with product, species, finish, and Project information, only after wet work is complete and dry.
- B. Store components upright and supported in a dry, conditioned, ventilated space, protected from moisture, sunlight, soiling, and damage. Protect wood doors from humidity extremes.

- C. Handle components to prevent chipping, scratching, and damage to wood faces, edges, and hardware.
- D. Immediately report damaged or missing materials to the shipper and to AAPG. Do not install missing or damaged components.

1.8 PROJECT CONDITIONS

- A. Environmental Conditions: Do not deliver or install until the building is enclosed, wet work is complete and dry, and permanent HVAC maintains service conditions.
- B. Acclimatization: Condition wood doors in the installation area for not less than 48 hours before installation, or longer if required by the manufacturer.
- C. Field Measurements: Verify dimensions, alcove and recess conditions, and clearances at the Project site before fabrication where the Work depends on field conditions.

1.9 WARRANTY

- A. Manufacturer's Warranty: Provide the manufacturer's standard written warranty covering defects in materials and manufacture for [one (1)] year, and covering delamination and component breakage of the phenolic bodies for [ten (10)] years, from the date of Substantial Completion.
- B. [Wood Door Warranty: Solid wood doors warranted against manufacturing defects and finish failure for [] year(s). Natural variation in wood color and grain is not a defect.]

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Basis-of-Design Manufacturer: American Architectural Products Group (AAPG), 248 James Street, Venice, FL 34285. Telephone: +1-844-307-9571. Email: info@aapgco.com. Website: www.aapgco.com.
- B. Specified Product: Cubiform® Leisure Lockers — Phenolic-Body Lockers with 5-Piece Solid Wood Doors.

2.2 SUBSTITUTIONS

- A. Substitutions: Not permitted. Requests for substitutions, comparable products, alternates, or proposed equals will not be considered.
- B. Division 01 substitution procedures do not apply to this Section. Product naming is proprietary and establishes the only acceptable manufacturer and product.

2.3 LOCKER SYSTEM — COMMON REQUIREMENTS

- A. System Description: Leisure lockers of solid phenolic body construction with 5-piece solid wood doors, combining the moisture and impact resistance of phenolic bodies with the appearance of a stile-and-rail solid wood door, for club, spa, and hospitality environments.
- B. Overall Height: [60 inches (1524 mm)] [72 inches (1829 mm)], or as scheduled.
- C. Widths (Available): [12] [15] [18] inches ([305] [381] [457] mm), or as scheduled.
- D. Depths (Available): [18] [21] [24] inches ([457] [533] [610] mm), or as scheduled.
- E. Colors and Finish: Phenolic bodies selected from the manufacturer's [standard] [full] color range; wood doors in the specified species and transparent finish.

2.4 TIER CONFIGURATIONS

- A. One-Tier Lockers: A single full-height wood door within the locker body.
- B. Two-Tier Lockers: Two stacked wood doors within the locker body.
- C. "Z" Lockers: Interlocking Z-shaped compartments providing two full-height garment spaces within a single opening width, for full-length hanging in a reduced footprint.
- D. Provide the tier configuration, sizes, and quantities scheduled.

2.5 PHENOLIC BODY CONSTRUCTION

- A. Body Material: Solid phenolic core of cellulose fibers impregnated with phenolic resin and fused under heat and pressure, with integral decorative melamine faces (NEMA LD 3, Grade VGS) and a [black] [color-thru] core.
- B. Body Sides: [3/8 inch (10 mm)] solid phenolic.

- C. Tops, Bottoms, and Backs: [1/2 inch (13 mm)] solid phenolic.
- D. Shelves: [1/2 inch (13 mm)] solid phenolic, where scheduled.
- E. Edges: Machined smooth with radiused corners and polished beveled exposed edges.

2.6 SOLID WOOD DOORS

- A. Construction: 5-piece stile-and-rail solid wood doors — two stiles, two rails, and a center panel — with cope-and-stick joinery and a floating panel that accommodates natural wood movement.
- B. Thickness: [3/4 inch (19 mm)] [1 inch (25 mm)] nominal.
- C. Species: [Red Oak] [White Oak] [Hard Maple] [Cherry] [Walnut] [Mahogany] [_____].
- D. Panel Profile: [Raised panel.] [Flat / recessed panel.] [Shaker (square-edge flat panel).]
- E. Grade: AWI Architectural Woodwork Standards, [Premium] [Custom] Grade.
- F. Certified Wood: FSC-certified, where required by the Project.
- G. Ventilation: [None.] [Louvered wood vents in rails.] [Ventilation slots], where scheduled.

2.7 WOOD FINISH

- A. Finish System: Factory-applied AWS-compliant transparent [conversion varnish] [catalyzed lacquer] [UV-cured] system, sealed on all faces and edges for humidity resistance in locker-room environments.
- B. Sheen: [Flat] [Satin] [Semi-gloss].
- C. Stain / Color: [Manufacturer's standard] [custom to approved sample].

2.8 HARDWARE AND LOCKS

- A. General: Stainless steel and corrosion-resistant hardware, through-bolted and tamper-resistant.
- B. Hinges: Soft-close, concealed, heavy-duty [Type 304 stainless steel] hinges, standard.
- C. Locks — Standard: [Cam lock, keyed.] [Machine hasp and staple for an Owner-supplied padlock.]
- D. Locks — Options: [Electronic keypad (digital) lock.] [Built-in combination lock.] [RFID / app-managed lock.] Coordinate power and data for electronic locks.
- E. Door Pull: [Wood] [stainless steel] pull, [recessed] [surface-mounted].
- F. Number Plates: [Engraved] [2-inch (51 mm) aluminum disc] [brass] number plates, consecutively numbered as scheduled.
- G. Coat Hooks and Hang Rods: [Two-prong coat hook] and [garment rod] at one-tier and “Z” lockers, where scheduled.
- H. Fasteners: Stainless steel throughout, tamper-resistant at exposed locations.
- I. Accessible Hardware: At accessible lockers, provide lock and pull hardware operable with one hand, without tight grasping, pinching, or twisting, within ADA reach ranges.

2.9 BASE AND SUPPORT

- A. Locker Base (Option): Optional [solid phenolic] [solid wood] locker base available where scheduled — [continuous base] [toe base] — with matching finished ends and fillers.

2.10 FABRICATION

- A. Fabricate locker bodies square, true, and rigid in one-piece phenolic construction, with radiused corners and polished edges.
- B. Fabricate wood doors to the specified AWS grade, square and true, with tight joinery, floating panels, and consistent reveals; sequence species and tone for a balanced appearance.
- C. Factory-assemble lockers complete with doors and hardware to the greatest extent practicable.
- D. Reinforce internally at hinges, locks, and anchorage points as required.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine floors, walls, blocking, base conditions, accessible locker locations, and dimensions before installation.
- B. Verify that blocking and anchorage substrates are present, correctly located, and adequate to resist imposed loads.

- C. Do not begin installation until unsatisfactory conditions have been corrected. Beginning installation constitutes acceptance of substrates.

3.2 PREPARATION

- A. Establish layout, numbering sequence, and accessible locker locations.
- B. Coordinate blocking, base, and any power and data rough-in before setting lockers.

3.3 INSTALLATION

- A. Install lockers plumb, level, and rigid in accordance with the approved shop drawings and the manufacturer's written instructions.
- B. Set lockers on the specified base or directly on the finished floor; level; anchor securely to the floor and to wall blocking. Join banks of lockers for flush, aligned fronts with consistent reveals.
- C. Provide accessible lockers at the scheduled locations, with tiers and hardware within ADA reach ranges.
- D. Install locks and set keying; coordinate, connect, and commission electronic locks where specified.
- E. Install number plates in the scheduled numbering sequence.

3.4 ADJUSTING

- A. Adjust wood doors, soft-close hinges, and locks for smooth, quiet, aligned operation with consistent reveals.

3.5 FIELD QUALITY CONTROL

- A. Inspect the completed installation for level, plumb, secure anchorage, door alignment and operation, soft-close function, finish condition, hardware and lock operation, numbering, and conformance with the approved shop drawings and accessible requirements.
- B. Replace components that are warped, delaminated, chipped, scratched, or otherwise unacceptable.

3.6 CLEANING

- A. Clean wood surfaces with manufacturer-approved nonabrasive products suitable for the finish. Clean phenolic surfaces with nonabrasive cleaners. Remove markings and construction residue without damaging finishes.

3.7 PROTECTION

- A. Protect completed lockers from impact, moisture, staining, and damage by subsequent construction activities.
- B. Repair or replace damaged work before Substantial Completion.

END OF SECTION 10 51 16