

SECTION 10 51 29

PHENOLIC LOCKERS

(Cubiform® Pro by AAPG — Solid Phenolic Athletic Team Locker Stalls for Professional Sports Facilities)

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Factory-fabricated solid phenolic athletic team locker stalls for professional and collegiate sports facilities, including open-front personal stalls, integrated bench seats, upper storage cabinets, hanging and ventilated gear compartments, integrated power and lighting, personalized nameplates and branding, hardware, and accessories.
 - 1. Single-occupant, open-front team locker stalls of solid phenolic construction.
 - 2. [Enclosed, lockable upper valuables cabinets.]
 - 3. [Integrated cantilevered bench seats.]
 - 4. [Integrated power, USB / device charging, and LED lighting.]
 - 5. [Ventilated gear and footwear drying compartments.]
 - 6. [Personalized nameplates, engraved graphics, and team logos.]
- B. Products Not Furnished or Installed Under This Section:
 - 1. In-wall blocking, backing, and structural support for anchorage.
 - 2. Electrical power, data, and low-voltage rough-in; final connections by Divisions 26 and 27.
 - 3. Concrete bases, housekeeping pads, and floor finishes.
 - 4. [Recessed niche and alcove framing.]
 - 5. Field finishing of adjacent construction.

1.2 RELATED SECTIONS

- A. Section 06 10 00 - Rough Carpentry: In-wall blocking and backing for anchorage and bench support.
- B. Section 09 21 16 - Gypsum Board Assemblies: Wall substrates receiving anchorage.
- C. Section 09 30 00 - Tiling: Floor and wall finishes at locker stalls.
- D. Section 10 21 13.17 - Phenolic Toilet Compartments: Matching solid phenolic finishes.
- E. Division 26 - Electrical: Power rough-in and final connection of integrated receptacles, charging, and lighting.
- F. Division 27 - Communications: Data and low-voltage rough-in where scheduled.

1.3 REFERENCES

- A. ASTM International (ASTM):
 - 1. ASTM A240 and ASTM A666 - Stainless Steel Sheet, Strip, and Plate.
 - 2. ASTM A743/A743M - Corrosion-Resistant Stainless Steel Castings.
 - 3. ASTM B221 - Aluminum and Aluminum-Alloy Extruded Bars, Rods, and Shapes.
 - 4. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- B. National Electrical Manufacturers Association (NEMA):
 - 1. NEMA LD 3 - High-Pressure Decorative Laminates (decorative melamine faces).
- C. National Fire Protection Association (NFPA) and Underwriters Laboratories (UL):
 - 1. NFPA 70 - National Electrical Code (NEC), for integrated electrical components and connections.
 - 2. UL-listed integrated electrical, charging, and lighting components.
- D. International Code Council / American National Standards Institute (ICC/ANSI):
 - 1. ICC/ANSI A117.1 - Accessible and Usable Buildings and Facilities.
- E. U.S. Department of Justice:
 - 1. 2010 ADA Standards for Accessible Design (28 CFR Part 36).
- F. International Building Code (IBC), Chapter 8 - Interior Finishes.

- G. UL GREENGUARD / GREENGUARD Gold 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, electrical and low-voltage rough-in, integrated power and lighting, branding and nameplate approvals, accessible stalls, and protection.
- B. Coordination: Coordinate blocking and structural support, electrical and data rough-in locations for integrated power, charging, and lighting, accessible stall quantities and locations, and approved team branding before fabrication.

1.5 SUBMITTALS

- A. Product Data: Submit manufacturer's literature describing stall construction, components, integrated bench, cabinets, ventilation, electrical and lighting components, locks, nameplates, and accessories.
- B. Shop Drawings: Submit plans and elevations showing stall layout, dimensions, component arrangement, bench support, cabinet and shelf locations, ventilation, integrated power/charging/lighting locations and rough-in requirements, nameplate and branding layout, accessible stalls, and anchorage.
- C. Samples:
 - 1. Color Samples: Manufacturer's full range for each phenolic color and finish specified, including custom team colors.
 - 2. Corner and Edge Sample: Phenolic panel corner showing core, decorative face, radiused corner, and polished beveled edge.
 - 3. Hardware Samples: One of each hinge, lock, hook, and nameplate specified.
 - 4. Branding Proof: Digital proof of engraved or printed team logos, graphics, and personalized nameplates.
- D. Certificates and Test Reports:
 - 1. Surface burning characteristics (ASTM E84) for the specified phenolic panels.
 - 2. GREENGUARD or GREENGUARD Gold certification, where required by the Project.
 - 3. UL listing for integrated electrical, charging, and lighting components.
 - 4. Manufacturer certification that accessible stalls comply with ICC/ANSI A117.1 and the 2010 ADA Standards.
- E. Closeout Submittals: Submit cleaning and maintenance instructions, warranty documentation, lock keying and access records, electrical component data, and a record of approved colors, branding, hardware, and product codes.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer regularly engaged in the production of solid phenolic athletic and team lockers of similar type, scope, and quality.
- B. Installer Qualifications: Installer experienced in athletic locker installation of comparable scope and approved by the manufacturer.
- C. Surface Burning Characteristics: Provide phenolic panels 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.] [As required by the authority having jurisdiction.]
- D. Electrical Components: Integrated receptacles, charging devices, and lighting shall be UL-listed and installed in accordance with NFPA 70 (NEC); final connections by Division 26.
- E. Accessibility: Provide accessible stalls complying with ICC/ANSI A117.1 and the 2010 ADA Standards, including clear floor space, reach ranges, bench and shelf heights, and hardware operable with one hand and without tight grasping, pinching, or twisting of the wrist.
- F. Single-Source Responsibility: Provide stalls, hardware, locks, integrated components, and accessories under single-source responsibility.
- G. Mockup: Provide one complete locker stall, including bench, cabinet, integrated power and lighting, lock, and nameplate, for review. The approved mockup establishes the minimum standard and is recommended for professional installations.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver stalls in protective packaging identified with product, color, branding, and Project information.
- B. Store components upright and supported in a dry, ventilated space, protected from soiling and damage. Solid phenolic is moisture-resistant; nonetheless protect faces, edges, and integrated components from impact and abrasion.
- C. Handle components to prevent chipping, scratching, and damage to faces, edges, hardware, and integrated electrical components.
- 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 install until the building is enclosed and wet work at adjacent construction is complete and dry.
- B. Field Measurements: Verify dimensions, alcove and recess conditions, rough-in locations, 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 rust, delamination, and component breakage for [ten (10)] years, from the date of Substantial Completion.
- B. [Integrated Electrical Components: Warranted by the component manufacturer for [] years.]

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® Pro Athletic Team Lockers.

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: Solid phenolic, open-front, single-occupant athletic team locker stalls of one-piece phenolic construction throughout, resistant to moisture, humidity, impact, and graffiti, and engineered for high-use professional locker rooms with integrated storage, seating, power, and lighting.
- B. Overall Height: [72 inches (1829 mm)] [84 inches (2134 mm)] [96 inches (2438 mm)], or as scheduled.
- C. Stall Width: [36 inches (914 mm)] [42 inches (1067 mm)] [48 inches (1219 mm)], or as scheduled.
- D. Stall Depth: [18 inches (457 mm)] [21 inches (533 mm)] [24 inches (610 mm)], or as scheduled.
- E. 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. Phenolic throughout.
- F. Colors, Finish, and Branding: Selected from the manufacturer's [standard] [full] color range, including [custom team colors]; matte or suede finish. [Digitally printed or engraved team logos, graphics, and wordmarks where scheduled.]
- G. Edges: Machined smooth with radiused corners and polished 15-degree beveled exposed edges.

2.4 STALL CONFIGURATION AND COMPONENTS

- A. Configuration: Open-front personal stall with full-height hanging area, upper storage, and integrated bench seat. [Partial or full lockable door at the upper cabinet.]
- B. Back, Side, and Divider Panels: 1/2 inch (13 mm) solid phenolic; full-height dividers between adjacent stalls.
- C. Upper Storage Cabinet: Enclosed, lockable compartment with [hinged phenolic door] [roll-up door] and [adjustable shelf], for valuables and personal items.
- D. Bench Seat: Integrated cantilevered phenolic bench with concealed structural steel support, nominally [17 to 18 inches (432 to 457 mm)] high and [12 to 15 inches (305 to 381 mm)] deep, rated for a minimum [300-pound (136 kg)] load.
- E. Hanging and Hooks: Stainless steel garment rod with [helmet hook] [multiple garment hooks] [valuables hook], and an open shelf above the hanging area.
- F. Ventilation: [Passive ventilation slots] [active airflow / gear-drying system] serving the hanging and gear compartments to promote drying and reduce odor.
- G. Footwear / Gear Compartment: [Ventilated lower compartment for footwear, cleats, and gear, where scheduled.]
- H. Base: Solid phenolic base with concealed leveling; [continuous phenolic toe base].

2.5 INTEGRATED ELECTRICAL AND LIGHTING [WHERE SCHEDULED]

- A. General: UL-listed integrated components, pre-wired to a junction point for final connection by Division 26 in accordance with NFPA 70 (NEC).
- B. Power and Charging: [Duplex receptacle.] [USB-A and USB-C charging ports.] [Wireless charging pad.] [Lockable charging drawer.]
- C. Lighting: Integrated low-voltage LED [task] [accent] lighting with [manual switch] [occupancy sensor] [dimming control].
- D. Data and Low-Voltage: [Provisions for data and audio-visual devices, where scheduled.]
- E. Coordination: Coordinate rough-in locations and final connections with Divisions 26 and 27.

2.6 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 at cabinet doors, standard.
- C. Locks — Standard: [Electronic keypad / RFID lock] at the valuables cabinet, with audit and override capability.
- D. Locks — Options: [Bluetooth / app-managed lock.] [Built-in key lock.] [Built-in combination lock.] [Machine hasp for padlock.]
- E. Personalized Nameplates: [Engraved phenolic] [aluminum] nameplate with [player name] [number] [team logo]; [illuminated nameplate option].
- F. Hooks and Accessories: Helmet hook, garment hooks, and valuables hook of stainless steel or corrosion-resistant material.
- G. Fasteners: Stainless steel throughout, tamper-resistant at exposed locations.
- H. Accessible Hardware: At accessible stalls, provide lock, pull, bench, and shelf hardware operable and located within ADA reach ranges and operable with one hand.

2.7 FABRICATION

- A. Fabricate stalls square, true, and rigid in one-piece phenolic construction, with radiused corners, polished beveled edges, and factory-drilled hardware locations.
- B. Factory-assemble stalls complete with hardware, benches, cabinets, and pre-installed wiring harnesses to the greatest extent practicable; factory-test integrated electrical components before shipment.
- C. Reinforce internally at benches, cabinets, hinges, locks, and anchorage points as required to resist imposed loads.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine floors, walls, blocking and structural support, electrical and low-voltage rough-in, accessible stall locations, and dimensions before installation.
- B. Verify that blocking, structural support, and rough-in are present, correctly located, and adequate for the stalls, benches, and integrated components.
- C. Do not begin installation until unsatisfactory conditions have been corrected. Beginning installation constitutes acceptance of substrates.

3.2 PREPARATION

- A. Establish layout, stall sequence, branding placement, and accessible stall locations.
- B. Coordinate blocking, bench support, and electrical and data rough-in before setting stalls.

3.3 INSTALLATION

- A. Install stalls plumb, level, and rigid in accordance with the approved shop drawings and the manufacturer's written instructions.
- B. Anchor stalls and integrated benches securely to the floor and to wall blocking and structural support. Align adjacent stalls for flush, aligned fronts with consistent reveals.
- C. Coordinate and make integrated power, charging, and lighting available for final connection by Division 26; do not energize until connections are complete and inspected.
- D. Provide accessible stalls at scheduled locations with bench, shelf, and hardware within ADA reach ranges.
- E. Install locks and set access credentials; install personalized nameplates and branding in the approved layout.

3.4 ADJUSTING

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

3.5 FIELD QUALITY CONTROL

- A. Inspect the completed installation for level, plumb, secure anchorage, bench rigidity, door and hardware operation, lock and credential function, operation of integrated power and lighting, branding, and conformance with the approved shop drawings and accessible requirements.
- B. Replace components that are chipped, scratched, delaminated, misaligned, or otherwise unacceptable.

3.6 CLEANING

- A. Clean exposed surfaces with manufacturer-approved nonabrasive products. Remove markings and construction residue without damaging the finish, branding, or integrated components. Solid phenolic surfaces resist graffiti; do not use abrasive pads or cleaners not approved by the manufacturer.

3.7 PROTECTION

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

END OF SECTION 10 51 29