

## SECTION 10500 – POLYCORE HD LOCKERS

Grid – [builtbygrid.com](http://builtbygrid.com) – Dallas, Texas USA – 469.482.9800

# CSI | Grid Club Lockers – Polycore HD

## PART 1 – GENERAL

### 1.1 SCOPE INCLUDES

- A. Pre-assembled, Polycore HD Lockers.
- B. Locker Benches.
- C. Bench Pedestals.
- D. Locker Hardware and Accessories.

### 1.2 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Wall backing and floor support to anchor Lockers and Bench Pedestals.

### 1.3 REFERENCES

- A. American Society for Testing and Materials:
  - a. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Material
  - b. ASTM D6578 Standard Practice for Determination of Graffiti Resistance
  - c. ASTM D1037 Direct Screw Withdrawal Test
  - d. ASTM D570 Standard Test Method for Water Absorption
  - e. 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.*
- E. 2005 LD-3 NEMA Standard Test, Chemical Resistance, Modulus of Elasticity, Shear Strength and Compression Strength.

### 1.4 QUALITY STANDARDS AND KEY DESIGN CHARACTERISTICS

- A. Flame Spread: When tested in accordance with ASTM E84, Lockers, and Bench materials shall meet or exceed all requirements for Class B Flame Spread Rating and Smoke Developed and shall carry a Class B Fire Rating Certification in accordance with the requirements of NFPA and ICC.
  - a. Flame Spread shall not exceed 75.
  - b. Smoke Developed shall not exceed 450
- B. Frameless Locker Doors: Locker Door shall be the full width of the Locker Body 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.
- C. Assembled Locker Body: Locker Body shall be mechanically fastened with Stainless Steel fasteners. Shelves shall be mortised into side walls of the locker box and shall be secured with Stainless Steel fasteners.
  - a. Locker units to be delivered as pre-assembled, individual lockers ready to install. Knockdown units are not acceptable
- D. 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 cleanability** from permanent markers and shall have Non-Ghosting properties.
- E. Scratch Resistance Requirements: When tested in accordance with ASTM D2197, Locker materials shall prove to be **scratch resistant** when the maximum Load Value exceeds 10 kilograms.

- 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. Tensile/Shear/Compression Strength: Locker materials shall have a Modulus Elasticity of 1.55 Million PSI. Locker materials shall have a Shear Strength of 2,000 PSI minimum and a Compression Strength of 24,000 PSI minimum.
- H. Water Absorption Requirements: When tested in accordance with ASTM D570 locker materials shall have a Water Absorption Rate of less than 0.37%.
- I. 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. Project Data: Available upon request, including:
  - a. Preparation, storage, and handling requirements.
  - b. Installation and maintenance guide.
  - c. Product date specific to materials used in construction of locker.
- B. Elevation Drawings: Indicate locker component profiles and elevations, schedule of finishes, and accessories.
- C. Locker Room Layout: Show a plan view of each room receiving lockers, scaled locker location, trim pieces and ADA compliance.
- D. Samples for Initial Selection:
  - a. Submit Grid's color chart with full range of Standard Colors.
  - b. Physical samples of hardware and phenolic available on request per project
- F. Warranty: Warrantied to be free from any major structural defects attributable to the manufacturing process under normal use and service for a period of fifteen (15) Years from the date of delivery.

## 1.6 PROJECT CONDITIONS

- A. Space required to be "conditioned" and fully enclosed prior to installation (temperature, humidity, and ventilation) within limits recommended by Grid. Do not install products under environmental conditions outside manufacturer's absolute limits.
- B. Field Measurements: Verify dimensions in areas of installation by field measurements before fabrication and indicate measurements on Shop Drawings.
  - a. Established Dimensions: In lieu of field measurements, GC to establish dimensions based on shop drawings and Grid will proceed with fabricating. Coordinate supports, adjacent construction, and wall openings to ensure actual dimensions correspond to Established Dimensions.
- C. During and after installation, maintain consistent temperature/humidity in spaces as will occur after occupancy.
- D. General contractor to provide final clean and protection of products

## 1.7 DELIVERY, STORAGE, AND HANDLING

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

## PART 2 – PRODUCTS

### 2.1 MANUFACTURERS

- A. **Grid Club Locker – Polycore HD** | Dallas, TX | Phone 469.482.9800 | Email: [info@builtbygrid.com](mailto:info@builtbygrid.com), [www.builtbygrid.com](http://www.builtbygrid.com)
- B. Substitutions: Not permitted.
  - a. Other may be submitted for evaluation by the architect. All submittals for approval shall be equivalent with these key features:
    - i. Integrated Soft-Close hinge system
    - ii. Frameless construction
    - iii. Solid Phenolic
    - iv. Pre-assembled (knock down not acceptable)

## 2.2 LOCKER UNIT CONFIGURATION AND SIZE OPTIONS:

### A. Tier Configuration: **Club Lockers**

- a. CL1- Single Tier: 1- vanity shelf, 1 – top shelf, 1 – coat rod, 1 – coat hook, Grid Mat
- b. CL2- Double Tier: 1- vanity shelf, 1 – ceiling dual hook, 1 – side coat hook, Grid Mat
- c. CL3- Triple Tier: 1- vanity shelf, 1 – side coat hook, Grid Mat
- d. CL4- Quad Tier: 1 – Grid Mat
- e. CL5- Five Tier: 1 – Grid Mat
- f. CL6- Six Tier: 1 – Grid Mat
- g. CLZ- Z Tier: 1- vanity shelf, 1 – coat rod, 1 – coat hook, Grid Mat
- h. CLC- Cell Phone Tier: 11 Openings with USB portals, Resin doors and Ojmar CombiPro 57 Lock

- B. Standard Width: 12”, **15”**, 18” or other
- C. Standard Depth: 15”, 18”, **20”** or other
- D. Standard Height: 36” – 84” (**72”** is typical)

## 2.3 MATERIALS

- A. Material shall be Solid Phenolic with a High-Pressure Melamine matte finish surface made as part of the core material. Laminated surfaces are not acceptable. Surface and edges shall be non-porous and shall not support fungus or bacteria. Provide material which has been selected for uniform color, surface flatness and smoothness. Exposed surfaces which exhibit discolorations, pitting, seam marks, roller marks, stains, telegraphing of core material, or other imperfections on finished units are not acceptable. Defects such as chipping along edges and corners are unacceptable.
- B. Material Thicknesses:
  - a. Doors, Slope Tops, End Panels, and Toe Kick Plates – Minimum .50” (12 mm).
  - b. Tops, Bottoms, and Shelves – Minimum .375” (10 mm). Sides and Locker Backs – Minimum .3125” (8 mm).
  - c. Locker Bench Tops – Minimum .75” (19 mm).
- C. Colors: To be selected by Project Architect from standard Formica or Wilsonart.
- D. Rubber Mats (optional): Furnish each bottom shelf with a rubber protection mat
- E. Vanity Shelf: 4” interior vanity shelf running full width of interior locker

## 2.4 HARDWARE

- A. Locker Hinges: Euro-concealed hinge with integrated soft-close dampener to allow phenolic door to gradually close
  - i. 5-knuckle hinges are unacceptable and cannot be substituted.
- B. Locking Mechanism: Built-In, delivered installed and ready to operate.
  - i. CombiPro57
- C. 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 fasteners or Through Bolts. Plastic and aluminum Coat Hooks are unacceptable.
- D. Number Plates: Provide a Number Plate for each Door or opening, in the sequence as indicated on the drawings.
- F. Bench Pedestals: Provide all necessary Stainless-Steel fasteners to secure Bench Pedestal to the floor and Bench Top.
  - i. 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. Top and bottom flanges shall be welded to center post and shall be 8” in diameter. Bench Pedestals shall be secured to floor with Stainless Steel Torx Head with Pin, #14 X 2” Screws.
- G. Slope Top Mounting Channels and Supports: Slope Top Mounting Channels and Supports shall be made of Heavy-Duty Extruded Aluminum and shall have a Satin Anodized finish. Mounting Channels shall be field installed and shall attach to the front top edge of the Locker Body and shall be continuous across the front of the Lockers.

## 2.3 COORDINATING MILLWORK

- A. Cell Phone Locker
  - a. 11 Openings with 2 USB portals per opening
  - b. Doors to be a clear, frosted, or stained resin acrylic with CombiPro57 lock
  - c. Standard size: 15" wide x 15" deep x 72" tall
- B. Towel Drop Units
- C. Grooming Station Units
- D. Benches (ADA compliant and standard sizes)

## 2.4 FABRICATION

- A. 100% fabricated and manufactured in the USA.
- B. Fabricate lockers square, rigid and without warp, with the finish free of defects.
- C. Machine all parts and attachment holes accurately and without chips and defects.
- D. Factory pre-assembled locker units – lockers shall be complete, ready to connect and install. Knock down units are unacceptable

## PART 3 – EXECUTION

### 3.1 EXAMINATION

- A. Verify that field dimensions, built-in bases, framing, and blocking are in accordance with Locker Shop Drawings. Inspect walls to ensure that they are plumb and suitable for the installation of the Lockers.
- B. Do not begin installation until adjacent substrates and finishes have been properly prepared.
- C. Verify prepared bases are in correct position and configuration per shop drawings and locker layout
- D. If preparation is the responsibility of another installer, notify general contractor of unsatisfactory preparation before proceeding to install the lockers.
- E. Verify the space is 100% "conditioned" and will remain so throughout and after the installation

### 3.2 INSTALLATION

- A. Through Bolt Locker Boxes together with Stainless Steel connection bolts
- B. Install in accordance with manufacturer's instructions provided by Grid – At any time a question arises, call Grid at 469-482-9800
- C. If Grid is not contracted for installation, the hired contractor must unload lockers from the delivery truck.
- D. Place and secure on prepared base that is 100% level and plum. (typically, 4" or 6" tall base)
- E. Secure lockers with anchor screws to suit substrate materials
- F. Install trim: End panels, filler panels, tops and bases as indicated on the approved shop drawings.
- G. Install accessories, adjust locks and hinges.
- H. Set and secure lockers in place; rigid, plumb, and level.
- I. Touch-up install defects with wax, filler and caulk as needed to blend with locker finish

### 3.3 PROTECTION AND CLEANING

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.
- C. Clean locker interiors and exterior surfaces.

## END OF SECTION