



## SECTION 11605

### LABORATORY FITTINGS

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Stainless steel laboratory pegboard drying racks.
- B. Stainless steel counters and sink bowls.
- C. Stainless steel shelving.
- D. Stainless steel medicine lockers.
- E. Stainless steel specimen pass-throughs.
- F. Acrylic laboratory pegboard drying racks.

##### 1.2 RELATED SECTIONS

- A. Section 11600 - Laboratory Equipment.

##### 1.3 REFERENCES

- A. ASTM A 666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2000.
- B. ASTM D 2240 - Standard Test Method for Rubber Property - Durometer Hardness; 2002.

##### 1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. [Product Data]: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.
- C. Shop Drawings.

##### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.

- B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

## 1.6 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.

## 1.7 WARRANTY

- A. Warranty for Stainless Steel Pegboard System: 5 year warranty on stainless steel replacement parts for board or pegs.
- B. Warranty for Acrylic Pegboard Systems: 5 year warranty on acrylic pegs. none
- C. Warranty for Nar-Lock Narcotics Locker: 5 year warranty.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Inter Dyne Systems Inc.; 676 Ellis Rd.; Norton Shores, MI 49441. Tel: 231-799-8760. Email: [request info \(jack@interdynesystems.com\)](mailto:jack@interdynesystems.com). Web: [www.interdynesystems.com](http://www.interdynesystems.com).
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

### 2.2 LABORATORY PEGBOARDS

- A. Pegboard System: Modular laboratory pegboard systems for drying laboratory equipment as well as for general utility. System consists of stainless steel pegboard and polypropylene pegs. Optional stainless steel accessories available. All components autoclavable.
- B. Pegboard: Victoria.
  - 1. Material: 20 gauge (0.953 mm) type 304 stainless steel with number 4 finish.
  - 2. Drainage Mechanism: Integral drip trough with catch drain and clear plastic drain tube.
  - 3. Board Depth: 3/4 inch (19 mm).
  - 4. Drip Trough Depth: 2 inches (51 mm).
  - 5. Drip Trough Depth: 4 inches (102 mm).
  - 6. Board Size: \_\_\_\_\_; bottle pegs: \_\_\_\_\_.
  - 7. Mounting: Wall mounting; with wall brackets.
  - 8. Mounting: On column, pipe chase, rail, or similar structure; with finished back of 20 gauge (0.953 mm) type 304 stainless steel with number 4 finish.
  - 9. Mounting: Bolted to counter or shelf, upright; with finished steel back, brackets, and hardware.
- C. Pegboard: Acrylic.
  - 1. Material: Acrylic rigid plastic. 45 degree eased and flame polished edges. 3/4 inch (19 mm) or 1 inch (25 mm) thick depending on model size selected.
  - 2. Finish: Clear.
  - 3. Finish: Frosted.

4. Drainage Mechanism: Bevels shall be added at the bottom to pitch water away from wall.
  5. Drainage Mechanism: **Integral** drip trough **with catch drain** and clear plastic drain tube.
    - a. Drip Trough Depth: 2 inches (51 mm).
    - b. Drip Trough Depth: 4 inches (102 mm).
  6. Board Size: \_\_\_\_\_; bottle pegs: \_\_\_\_\_.
  7. Mounting: Counter-sunk holes provided.
  8. Mounting: Countertop mounting; stainless steel U Channels can be use at countertop and backsplash.
- D. Pegs: Polypropylene; 1 inch (25 mm) by 1-1/2 inches (38 mm) hole plug at base.
1. Support Peg: 4 inches (102 mm) long horizontal peg, 1/2 inch (13 mm) diameter, with a 1 inch (25 mm) vertical protrusion at end.
  2. Bottle Peg: 6 inches (152 mm) long angled peg, 1/2 inch (13 mm) diameter.
  3. Long Peg: angled peg, 5/8 inch (16 mm) diameter.
    - a. Length: 9 inches (229 mm).
    - b. Length: 12 inches (305 mm).
  4. Tube Peg: 4-1/2 inches (114 mm) long angled peg, 5/16 inch (8 mm) diameter.
  5. Peg Extender for Bottle Pegs: 2-1/4 inches (57 mm) long, 1/2 inch (13 mm) diameter extension; 3-3/16 inches (81 mm) total length, with base of 3/4 inch (19 mm) diameter with 31/64 inch (12 mm) diameter opening for peg.
- E. Flask Holder: 18 gauge (1.27 mm) type 304 stainless steel; supported by pegs; to hold large flasks, reverses to hold large cylinders.
- F. Cylinder Yolk: 18 gauge (1.27 mm) type 304 stainless steel with number 4 finish; supported by pegs; two tapered slots to hold two cylinders, 500 to 1000 mm each.
- G. Funnel Rack: 20 gauge (0.953 mm) type 304 stainless steel; supported by pegs; L-shaped slots at back for added stability.
- H. Drain Shelf: 20 gauge (0.953 mm) type 304 stainless steel; supported by pegs; perforated to allow 33 mm hydrometers to dry vertically; vertical flange at front edge to keep equipment on shelf; L-shaped slots at back for added stability.
- I. Drain Basket: 20 gauge (0.953 mm) type 304 stainless steel; supported by pegs; perforated bottom.
  1. Length: 6 inches (152 mm).
  2. Length: 12 inches (305 mm).
- J. Glove Dispenser: 20 gauge (0.953 mm) type 304 stainless steel with number 4 finish; mounted on peg board with own protrusions; accommodates standard glove box.
- K. Pipette Rack: 20 gauge (0.953 mm) type 304 stainless steel; supported by three pegs at 45 degree angle; flange at top to rest on peg and perforation at bottom for drainage.
- L. Utility Shelf: 20 gauge (0.953 mm) type 304 stainless steel with number 4 finish; 12 inches (305 mm) deep shelf.
  1. Length: \_\_\_\_\_.
  2. Mounting: To wall.
  3. Mounting: To top of pegboard.
- M. Drip Trough: 20-(0.953 mm) gauge type 304 stainless steel; 3/8 inch (9.5 mm) steel

tube for flexible drain tube; wall mounted.

1. Length: \_\_\_\_\_.
- N. Drain Grid: 20 gauge (0.953 mm) type 304 stainless steel; vertical walls to be placed face-down in drip trough.
- O. Screen Insert: type 304 stainless steel wire 0.025 with 14 by 14 mesh; vertical walls to be placed face-down in drip trough.
- P. Liquid Soap Dispenser: type 304 stainless steel with number 4 finish; mounted on peg board with own protrusions.
1. Style: Vertical.
  2. Style: Horizontal.
- Q. Paper Towel Dispenser: type 304 stainless steel with number 4 finish; mounted on peg board with own protrusions; for C-fold or multi-fold towels.
1. Size: Petite; holds 150 towels.
  2. Size: Regular; holds 400 C-fold or 525 multi-fold towels.

### 2.3 COUNTERTOPS AND SINK BOWLS AND SHELVING

- A. Countertops: 16 gauge (1.59 mm) type 304 or 316 stainless steel with number 4 finish; one-piece construction where possible; turned down fronts; integral turned up backs to 3/8 inch (9.5 mm) radius; three formed channels placed underneath for support. All without solder. Provide factory punched service fixture holes.
1. Sides: Weld turned up.
  2. Sides: Weld turned down.
  3. Sides: Weld as indicated on drawings.
  4. Include sound deadening compound on underside of countertop.
  5. Dimensions: \_\_\_\_\_.
  6. Dimensions: As indicated on drawings.
- A.1 Sink Bowls: not less than 14 gauge (1.90 mm) type 304 or 316 stainless steel w a number 4 finish; one piece construction where possible; fabricated with corners rounded and coved to 3/4-inch (.17-mm). All seams provided are continuous welded butt joints. Sinks sloped to bottom with center punched 3 1/2" (88.9-mm) diameter drain outlet supplied with stainless steel strainer. All seams are polished to a uniform #4 finish free of cross scratches. Sinks to have a heavy duty 1/8 inch (3-mm) thick coating of heat resistant, sound deadening compound applied to under surface.
- B. Shelving: 18 gauge (1.27 mm) type 304 stainless steel with number 4 finish; formed return on bottom, front and side edges.
1. Dimensions: \_\_\_\_\_.
  2. Dimensions: As indicated on drawings.
- C. Wall Standards and Triangular Brackets: 304 stainless steel with number 4 finish; brackets have tang on bottom for stability. 14 gauge, 4-1/2 inch (114 mm) returns with countersunk installation holes.
1. Standard Length: 2 feet (610 mm).
  2. Standard Length: 3 feet (914 mm).
  3. Standard Length: 4 feet (1219 mm).
  4. Standard Length: 6 feet (1829 mm).
  5. Bracket Size: 12 inches (305 mm); left side.
  6. Bracket Size: 12 inches (305 mm); right side.
  7. Bracket Size: 16 inches (406 mm); left side.
  8. Bracket Size: 16 inches (406 mm); right side.

## 2.4 NARCOTIC STORAGE LOCKERS

- A. Locker: Nar-Lock; type 304 stainless steel with number 4 finish, with 12 gauge (2.78 mm) door hung on tamper proof concealed hinges; micro switch for remote warning light when door is open; internal light, prewired for fail safe link; one removable shelf; removable bottom; PVC gasket, with 56/66 durometer hardness when tested in accordance with ASTM D 2240, between outer door and cabinet.
1. Overall Size, Single Door Unit: 13 inches (330 mm) wide by 12 inches (305 mm) high by 9-7/8 inches (251 mm) deep.
  2. Overall Size, Double Door Unit: 21 inches (533 mm) wide by 12 inches (305 mm) high by 9-7/8 inches (251 mm) deep.
  3. Overall Size, Single Door Unit With Combination Lock: 13 inches (330 mm) wide by 12 inches (305 mm) high by 10-1/2 inches (267 mm) deep.
  4. Overall Size, Double Door Unit With Combination Lock: 21 inches (533 mm) wide by 12 inches (305 mm) high by 10-1/2 inches (267 mm) deep.
  5. Mounting: Wall mounted; 4 holes in back wall of unit.
  6. Lock: Two-key bank and safety deposit box type lock. (Models NL-2K and NL-2K-D.)
  7. Lock: Combination lock with spy proof dial, three wheel combination, relocking trigger. (Models NL-1C and NL-1C-D.)
  8. Lock: "Key locking" combination lock with spy proof dial, three wheel combination, relocking trigger. (Models NL-1CK and NL-1CK-D.)
- B. Locker: Narcotic Cabinet; stainless steel narcotic cabinet; inner and outer lockable doors; for refrigeration or ambulance use. (Model NL-501.)
1. Overall Size: 8 inches (203 mm) wide by 9 inches (229 mm) high by 5-5/8 inches (143 mm) deep.
  2. Mounting: Freestanding unit, no mounting.
- C. Locker: Med-Cab; type 304 stainless steel with number 4 finish; inner and outer doors with separately keyed; micro switch activated remote open door warning light; internal light, prewired for field connection; three adjustable shelves and a removable bottom; PVC gasket, with 56/66 durometer hardness when tested in accordance with ASTM D 2240, between outer door and cabinet. (Model MC-10-24.)
1. Overall Cabinet Size: 18 inches (457 mm) wide by 30 inches (762 mm) high by 12 inches (305 mm) deep.
  2. Mounting: Wall mounted; 4 holes in back wall of unit.
  3. Locks: Best(r) type cylinder locks model 5E; locks can be masterkeyed to a Best(r) security system; keys are removable in locked position only.

## 2.5 SPECIMEN PASS-THROUGHS

- A. Pass-Through: Turntable Specimen Pass Box; 18 gauge (1.27 mm) type 304 stainless steel with a number 4 finish, with 1 inch (25 mm) wide 22 gauge (0.793 mm) adjustable trim; turntable mounted at top and bottom with self-lubricated ball bearing plate; positioned bullet catches prevent uncontrolled rotation; cylinder lock allows for removal of cylinder. (Model 0515.)
1. Overall Cabinet Size: 14-3/4 inches (375 mm) wide by 15-1/2 inches (394 mm) high by 12 inches (305 mm) deep.
  2. Wall Opening: 13-1/4 inches (337 mm) wide by 14 inches (356 mm) high.
  3. Wall Depth: Adjustable from 3 inches (76 mm) to 7 inches (178 mm).
  4. Cylinder: 12 inches (305 mm) diameter.
  5. Cylinder Opening: 10-1/2 inches (267 mm) by 6 inches (152 mm).
- B. Pass-Through: Pass Through Specimen Cabinet; pass specimens from patient area to laboratory; 22 gauge (0.793 mm) type 304 stainless steel; self-closing door; lock prevents doors from both opening at same time; removable stainless steel tray.

(Model 8154.)

1. Overall Cabinet Size: 13-1/2 inches (343 mm) wide by 12-1/2 inches (318 mm) high by 6 inches (152 mm) deep.
2. Wall Opening: 12 inches (305 mm) wide by 11-1/4 inches (286 mm) high; mounts in wall thickness of 1-3/4 inches (44 mm) to 5-1/2 inches (140 mm).

### PART 3 EXECUTION

#### 3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate 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.

#### 3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

#### 3.4 PROTECTION

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

END OF SECTION