

SPECIAL SPECIFICATION  
13074S  
**CLEANROOM SPECIALTIES**

**PART 1 -- GENERAL**

**1.1 WORK INCLUDED**

- A. This Section specifies the requirements necessary to furnish and install:
  - 1. Benches
  - 2. Shelving units
  - 3. Dispensing cabinets
  - 4. Hand dryers
  - 5. Shoe cleaners
  - 6. Tacky mats
  - 7. Blocking and backing

**1.2 RELATED WORK**

- A. Use this Section in conjunction with the following other specifications and related Contract Documents to establish the total requirements for cleanroom specialties:
  - 1. The Contract.
  - 2. Division 1 sections included in the project specifications
  - 3. Section 06400S – Interior Architectural Woodwork.
  - 4. Section 09650S, - Gypsum Drywall
  - 5. Section 13036S, - Cleanroom Wall Systems
  - 6. Section 13037S, - Cleanroom Access Flooring
  - 7. Section 13039S, - Cleanroom Resilient Flooring
- B. CAUTION: Use of this Section without including the above-listed items results in omission of basic requirements.
- C. In the event of conflict regarding cleanroom specialties requirements between this Section and another section, the provisions of this Section govern.

**1.3 QUALIFICATIONS**

- A. Installer: firm that is approved by manufacturer and that has successfully installed products of a scope similar to this project.

**1.4 COORDINATION**

- A. Coordinate installation of cleanroom specialties with wall panels specified in Section 13051, Cleanroom Wall Assemblies.

## 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products in manufacturer's original, unopened, protective cleanroom package consisting of a clean, three-bag system with a final abrasion-resistant wrap with original, legible label intact.
- B. B. Protect against damage and discoloration.

## 1.6 SUBMITTALS

- A. Product data including product type, manufacturer, size, configuration, layout, accessories, and color when applicable.
- B. Shop Drawings: showing detailed layout, construction details, and installation in relation to adjacent construction. Show interface with walls and floors with regard to structural installation.

## 1.7 OPERATION AND MAINTENANCE DATA

- A. Provide operating instructions and repair part lists for operating equipment including hand dryers and shoe cleaners.

## PART 2 -- PRODUCTS

### 2.1 ACCEPTABLE MANUFACTURERS

TerraUniversal, Inc  
700 N. Harbor Blvd.,  
Anaheim CA 92805  
714-526-0100  
TerraUniversal.com

Reytek, Corporation  
9601 Turnbull Ave. NW,  
Albuquerque, NM 87123  
505-298-2338  
[www.reytek.com](http://www.reytek.com)

Liberty Industries, Inc.  
133 Commerce Street,  
East Berlin, CT 06023  
800-828-5656  
[www.liberty-ind.com](http://www.liberty-ind.com)

### 2.2 BENCHES

- A. Description:
  - 1. Type 304 stainless steel construction.
  - 2. Finish: electropolish
  - 3. Deburr edges.
  - 4. Grind welded joints smooth.
  - 5. Non-skid footings
- B. Sizes and Quantities:
  - 1. Sizes as scheduled at end of this Section
  - 2. Quantities as indicated on the Drawings.

### 2.3 CLEANROOM DISPENSING CABINETS

- A. Coordinate cabinet dimensions with cleanroom wall system dimensions and locations.
  - B. Description:
    - 1. Type 304 stainless steel construction.
    - 2. Finish: [electropolish] [No. 4 polished] [No. 5 polished].
    - 3. Deburr edges.
    - 4. Grind welded joints smooth.
    - 5. Wall mount.
    - 6. Open flow-through design.
  - C. Sizes and Quantities:
    - 1. Sizes as scheduled at end of this Section
    - 2. Quantities as indicated on the Drawings.
- 2.4 GOWN ROOM HAND DRYER
- A. Electric hand dryer with ULPA filter, noise and vibration control, and no-touch operation.
  - C. Acceptable Product: TerraUniversal ‘PureDry’, #3333-33
- 2.7 SHOE CLEANERS (UPRIGHT TYPE)
- A. Description: complete with internal vacuum system, disposable paper bags, and rotating brushes for removal and collection of contaminants. Rotational brush speed shall be adjustable.
  - B. Acceptable Product: Liberty Industries, Inc., Model #2001-TB;
- 2.8 TACKY MATS
- A. Description:
    - 1. Floor covering made from polyester compound that removes contaminating particles from shoes or wheels. The mat material has static dissipative properties and is applied like vinyl sheet flooring.
    - 2. 60 sheets per mat.
    - 3. Mat size: 30” x 42”
  - B. Locations: as indicated on the Drawings.
  - C. Acceptable Product: Liberty Industries, Inc., Model 800030
- 2.9 CLEANROOM GOWN RACKS
- A. Description: stainless steel construction, standard duty; freestanding with hanger rod to match existing gown racks.
  - B. General Contractor to coordinate site visit with SNL representative.

- C. Provide 40 ea. Hangers per rack.
- D. Engrave as directed by the Owner.
- E. Acceptable Manufacturer: TerraUniversal or Reytek

#### 2.10 STORAGE RACKS

- A. Description:
  - 1. Type 304 stainless steel construction.
  - 2. Finish: electropolish
  - 3. Deburr edges.
  - 4. Grind welded joints smooth.
  - 5. Floor-mounting flanges with bell-shaped escutcheon at raised floor or over floor mounting flange, whichever is applicable.
  - 6. Open flow-through design.
- B. Sizes and Quantities:
  - 1. Sizes as scheduled at end of this Section
  - 2. Quantities as indicated on the Drawings.
- C. Acceptable Product: TerraUniversal or Reytek

#### 2.11 SIGNAGE

- A. Engraved plastic signage,
- B. Schedule provided by SNL representative.
- C. Sizes and Quantities:
  - 1. Sizes as scheduled at end of this Section.

#### 2.12 CURTAIN RODS

- A. 1-1/2-inches outside diameter, Type 304 stainless steel rods, fully electropolished; escutcheon plates at each end with appropriate fasteners for mounting to cleanroom wall panels.

#### 2.13 STAINLESS STEEL SHELVES

- A. 1/8-inches thick, Type 304 stainless steel rods, fully electropolished; properly supported with intermediate and end mounting brackets with appropriate fasteners for mounting to cleanroom wall panels and or gypsum walls.

#### 2.14 BLOCKING AND BACKING

- A. Provide metal blocking and backing in gypsum board wall systems as specified in Section 09620, Gypsum Board Systems, where required to support wall-mounted items and where indicated on the Drawings.
- B. Verify location, type, and extent of work before installing blocking and
- C. Provide metal blocking and backing in cleanroom wall panels, as shown on the Drawings, where required to support wall-mounted items.

### PART 3 -- EXECUTION

#### 3.1 INSPECTION

- A. Verify adequacy of blocking and support framing size and location.
- B. Verify that surfaces and openings are ready to receive work and field measurements are as shown on reviewed shop drawings.
- C. Beginning of installation means acceptance of existing conditions.

#### 3.2 FIELD PREPARATION

- A. Protect other materials against damage and discoloration caused by work of this Section.

#### 3.3 INSTALLATION

- A. General:
  - 1. Follow manufacturer's instructions and reviewed shop drawings.
  - 2. Secure specialties plumb, level, square, and true as applicable.
- B. Wall-mounted Items: Install to wall panels or gypsum wall at elevations indicated utilizing concealed fasteners.

#### 3.4 ADJUSTING AND CLEANING

- A. Adjust the specialties to function correctly and satisfactorily at the time of Substantial Completion and during the warranty period.
- B. Remove debris from project site upon work completion or sooner, if directed.
- C. Including work of other sections, clean, repair, and touchup or replace when directed, products that have been soiled, discolored, or damaged work of this Section.
- D. When finished with installation, leave area clean and defect-free.

3.5 SCHEDULE

<b>Mark</b>	<b>Item</b>	<b>Description</b>	<b>Model</b>
B-36	Bench	Free-standing SS Bench (36 x 16 x 18)	TerraUniversal #1530 or Equal
B-48	Bench	Free-standing SS Bench (48 x 16 x 18)	TerraUniversal #1530 or Equal
BB-36	Bench	Freestanding SS w/ Bootie Storage (36 X 16 X 18)	TerraUniversal #1560 or Equal
BB-48	Bench	Freestanding SS w/ Bootie Storage (48 X 16 X 18)	TerraUniversal #1560 or Equal
BELTS	Dispenser	Wall-mounted SS wire belt holder (24 x 6) @ 48" AFF	
DISP	Recycle Disposal	Recycle Disposal Bins (12x18x30) w/ front access, trash bag supports and 6" Dia. Min. top opening	Reytek Corp. #REY0366 or equal
FILTER	Rack	Freestanding SS Shelving ( 72 x 14 x 84) w/ 9 shelves, 9 dividers per shelf	Eagle, match existing
FILTER/ BATTERIES	Rack/cabinet	Wall-mounted SS wire rack for dispensing air filters and batteries. (30 x 14 x 60) Bottom devoted to filters, 4 shelves w/ 1 divider per shelf. Top portion to hold SNL supplied battery dispenser (28 x 29)	Custom
GLASS	Safety Glass Dispenser	Safety Glasses Holder – (9.5 x 6x 28) 24 glasses	TerraUniversal #4951-21
GORTEX	Gortex Gown Rack	Gortex Gown Rack SS (72 x 24 x 84) w/ hanger rod and 40 hangers	Match existing
GOWNING	Shelves	Metro Rack w/ 4 shelves (15x60x72) w/ 4" wire rail on sides and back at each shelf. Cubbies- Stainless steel, 4 per shelf (12x14x 6) tapered to 4 inches in the front with sign holder 1 x 4 x ¼ and plastic laminate changeable insert, centered.	TerraUniversal #1300, or equal, w/ custom dispenser cubbies
HD	Hand Dryer	Hand Dryer (15" x11"x 21.125"), 700 W, 120VAC/60 HZ, 48" AFF	TerraUniversal #3333-33 or Equal
HELMET	Rack	Freestanding SS Shelving (72x14x84) w/ 9 shelves, 9 dividers per shelf with sign holder 1 x 2 x ¼ and plastic laminate changeable insert at each divider, centered.	Eagle, match existing
HOODS	Rack	Freestanding SS Wire Shelving (72x24x84) w/ 4 shelves, 1 divider per shelf with sign holder 1 x 4 x ¼ and plastic laminate changeable insert at each divider, centered.	Eagle, match existing
LEGGING	Rack	Freestanding SS Wire Shelving (72x14x84) w/ 9 shelves, 9 dividers per shelf with sign holder 1 x 2 x ¼ and plastic laminate changeable insert at each divider, centered.	Eagle, match existing
MASK	Rack	Freestanding SS Wire Shelving (24x14x84) w/ 4 shelves	TerraUniversal

MIRROR	Mirror	Full length Mirror (24x1x60) 18" AFF	
NYLON	Rack	Nylon Gown Rack SS (48 x 24 x 84) with 32 hooks for gowns (8 rows, 4 deep, evenly spaced)	Custom - Match existing
RACK	Disposal unit	Stainless steel Wire Shelving (24x14x84) w/ 4 shelves w/ 4" wire rail on sides and back at each shelf, one ea. 9" divider per shelf and sign holder SS 1 x 4 x 1/4 and plastic laminate changeable insert per shelf for disposal of batteries, filters, belts and accessories.	TerraUniversal
T-40	Trash	SS 40 Gal Trash (19 x 19 x 30), no lid	
TABLE	Wipe Down	Stainless Steel Table (24X96X ) w/ enclosed storage, 4 doors, 1 internal shelf (18x72) coordinated with trash bin	Custom

END OF SECTION