

**SECTION 13 21 25**  
**GOWN ROOM FURNISHINGS (Issued AD-2)**

**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. This section includes cleanroom and gowning room furnishings to be procured and installed by the Contractor.

**1.2 RELATED DOCUMENTS**

- A. 13 60 13 - Special Clean Zone Requirements.
- B. 13 60 16 - Cleanroom Protocol.

**1.3 SUBMITTALS**

- A. Submittals shall conform to General Conditions and Division 01 to include, but not limited to:
  - 1. Certificates of Compliance.
  - 2. Manufacturer's product and installation data sheets.
  - 3. Warranty and maintenance manuals.

**1.4 DELIVERY, STORAGE, AND HANDLING**

- A. Items must be delivered in manufacturer's original, unopened, and undamaged containers with identification labels intact. All items shall be cleanroom double or triple wrapped.
- B. Store gown room furnishings and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 degF or more than 90 degF. Store within double wrap until moved into the cleanroom. Inner wrap may only be removed when cleanroom is operational. Follow cleanroom cleaning procedures and protocol for unwrapping of cleanroom furnishings.

**PART 2 - PRODUCTS**

**2.1 MANUFACTURERS**

- A. Base:
  - 1. Terra Universal, 700 N. Harbor Blvd. Anaheim, CA 92805.
  - 2. VWR International, 1310 Goshen Parkway, West Chester PA 19380.
- B. Optional:
  - 1. Clean Air Products, 8605 Wyoming Avenue North, Minneapolis, MN 55445.
  - 2. Eagle Group, 100 Industrial Boulevard, Clayton, DE 19938.
  - 3. Guardian Equipment, 660 North Union Street, Chicago IL 60610.
  - 4. Lab Safety Supply, Inc., 401 S. Wright Rd., Janesville, WI 53546.
  - 5. Liberty Industries, 133 Commerce Street, East Berlin, CT 06023.

**2.2 CONTRACTOR FURNISHED/CONTRACTOR INSTALLED (CFCI) COMPONENTS AND MATERIALS**

- A. Gown Racks:
  - 1. Material: Electropolished stainless steel construction with wire rack shelf top and leveling feet.
  - 2. Configuration: Dual rack, 30 gown capacity, fixed gown hanger positions.
  - 3. Hangers: Electropolished stainless steel, detachable style.

4. Dimensions: 48 IN wide x 24 IN deep x 76 IN height.
  5. Product:
    - a. Rack: Terra Universal Part # 9230-04-2.
    - b. Hangers: Terra Universal Part # 1530-31-2.
- B. Gowning Benches:
1. Material: Ultra Clean fully passivated and electropolished stainless steel, 304 stainless, 14 gauge.
  2. Frame Design: Free standing H frame design.
  3. Dimensions: 36 IN long x 16 IN wide x 18 IN high.
  4. Product:
    - a. Stainless steel gowning bench, floor mounted, square tube frame, Terra Universal Part # 1530-10-2, with rod top and optional bootie racks (2).
- C. Glove/Bootie/Gown Hood Storage and Dispensing Racks:
1. Material: stainless steel.
  2. Size: 48 IN wide x 24 IN deep x 62 IN height.
  3. Products: Terra Universal Part #'s:
    - a. Corner Posts, four required: #1300-94.
    - b. Stainless steel wire shelves, five required: #1300-82.
    - c. Stainless steel rods/tabs, twelve required: #2650-31.
- D. Safety Glasses Dispensing Rack:
1. Material: Static dissipative PVC.
  2. Size: Single chamber, 16.5 IN wide x 12.5 IN deep x 17 IN height, with 8 IN wide x 5 IN height elliptical opening in front face.
  3. Product: Terra Universal Part # 4950-74.
- E. Consumables Storage Cabinets:
1. Material: Shall be of plastic laminate construction.
  2. Shelves: Provide five adjustable shelves of non-conductive plastic laminate. Similar to Terra Universal Part #4104-40.
  3. Stand: Steel with white epoxy finish, 6 IN high, with leveling feet.
  4. Doors: Clear static dissipative PVC.
  5. Dimensions:
    - a. 30 IN wide x 18 IN deep x 78 IN height.
  6. Products:
    - a. Cabinet: Terra Universal Part #4101-25A.
    - b. Shelves: Terra Universal Part #4101-43.
- F. Tacky Mats:
1. Blue, medium tack 12 oz./square inch adhesion in peel-off sheets, with numbered corner tabs.
  2. Size: 36 IN x 36 IN.
  3. Adhere to floor with 2 IN wide double faced adhesive tape.
  4. Product: Terra Universal Cat. # 5601-28.
- G. Motorized Shoe Cleaner:
1. Housing Material: Thermo-formed plastic. Motor and other particle-generating components shall be sealed inside the unit housing.
  2. Motor: Direct-drive.
  3. Power: 110V, 60Hz, 12 amps.
  4. Vacuum: internal vacuum system, with one dust bag installed and three spares. Vacuum filter shall be replaceable.
  5. Warranty: one year, parts and labor.
  6. Number of Brushes: 5.
  7. Brush Drive: 16 IN.
  8. Brushes: replaceable, 8 IN diameter.

9. Product: Terra Universal Part # 1784-00.
- H. Waste Receptacles:
1. Material: 304 non-magnetic stainless steel.
  2. Lid: Tight-fitting, gasketed.
  3. Lid Operator: No-spring foot pedal.
  4. Liner: Rigid, reusable plastic, treated with EPA-registered anti-microbial compound.
  5. Legs: 3/4 IN height minimum.
  6. Size: 19 IN wide x 19 IN deep x 30 IN height.
  7. Product: Terra Universal Part # 1456-04.

## **PART 3 - EXECUTION**

### **3.1 INSTALLATION**

- A. Follow manufacturer's instructions and recommendations for installation. Prior to installation, all items must be wrapped in clean, purged and sealed polyethylene bags to minimize contamination.
- B. Coordinate with plumbing, mechanical, and electrical work for proper sizing, location, and sequence of installation.
- C. Use only non-corrodible fastenings and conceal whenever possible. Make items, whether recessed or surface mounted, firm and secure in place, plumb and proper alignment.
- D. Clean all items thoroughly before installation using DI Water 90% and Isopropyl Alcohol 10%. Insure there are no residue, marks, nicks, contamination, protruding metal or other defects. Defective items shall be returned to manufacturer upon the Owner's Representative Request. Contractor is responsible for care of these items if used during the 'clean build' phase of construction before Owner's Representative sign off.

**END OF SECTION**