

DIVISION 11 – EQUIPMENT

SECTION 11476 – PHOTO DARKROOM SINKS AND PRINT WASHERS

PART 1 – GENERAL

1.01 Scope of Work

- A. Provide material, accessories, tools, equipment and labor as required for the complete fabrication and installation of the photo darkroom sinks and print washers as indicated on the Drawings or specified herein.
- B. Contract Requirements, including General and Supplemental Conditions; and, General Requirements of the Specifications shall govern the Work of this Section.

1.02 Related Work

- A. Refer to Division 15 for “Basic Mechanical Requirements” for connection to mechanical services.
- B. Refer to Division 16 for “Basic Electrical Requirements for connection to electrical services.
- C. Section 11470: Photo Darkroom Casework.
- D. Section 11475: Photo Darkroom Fume Exhaust Vent Hoods

1.03 Work by Others

- A. Wall blocking, and all other anchors that may be necessary, as required to support photo dark room sinks and print washers.
- B. Connection of photo darkroom sinks and print washers to water supply lines and drain lines, with shut-off valve and PVC traps, in accordance with existing codes.
- C. Installation of photo darkroom sink drain “dishwasher tee” for ¾” diameter hose connection above the trap, where a silver recovery system is specified.

1.04 Quality Assurance

- A. It is the intent of this Specification to establish a minimum performance and quality criteria for PVC (polyvinyl chloride) plastic photo darkroom sinks and print washers. Products not meeting these minimum requirements shall be unacceptable.
- B. Design, function, specific materials, finishes and construction detail shall be held in strict accordance to the drawings and specifications.

- C. Each photo darkroom sink and print washer shall be factory tested, as follows:
 - 1. Each sink and print washer bowl and/or compartment shall be static tested for leaks for a period of 24 hours.
 - 2. Factory installed plumbing features such as faucets, valves, temperature controls, pressure balancers, vacuum breakers, water filter systems and underwater supply jets shall be tested for leaks and serviceability at a static pressure not less than 100 pounds per square inch.

1.05 Submittals

- A. Shop Drawings: Submit in accordance with the “General Conditions” and “Supplemental General Conditions”, showing floor plans and elevations of each photo darkroom sink and print washer in relation to the processing casework and processing equipment.
- B. Samples of the PVC material shall be submitted to indicate the color, finish and quality.

1.06 Substitutions

- A. Photo darkroom sinks and print washers of other nationally recognized manufacturers may be considered for approval provided a written request is received within ten (10) working days prior to bid opening.
- B. All photo darkroom sinks and print washers must confirm to design, performance, quality of material, workmanship and functions as specified and shown on the Drawings.
- C. Manufacturers requesting approvals shall submit all of the following:
 - 1. Evidence of at least ten (10) years experience and twenty (20) installations of similar type and size.
 - 2. Financial stability, manufacturing facilities, catalogs and specifications.
 - 3. Details with written list of deviations from Specifications. Any item not listed shall be construed to be as specified. Details will be retained by Architect until completion of project for verification of compliance to the Specifications and approval.
 - 4. Test results by an independent testing lab including chemical corrosion resistance data as verified by an independent testing lab.
- D. Architect’s/Owner’s opinion and decision shall be final in evaluation of a substitutionary products.

1.07 Delivery, Storage Handling and Protection

- A. In addition to compliance with the general provisions for delivery, storage, handling and protection of components of the Work required in the General Requirements:
 - 1. Photo darkroom sinks and print washers and accessories shall be protected from damaging during shipment, storage and handling. During handling, great care shall be taken so that the items are not twisted or receive any impact, and are protected from dirt and moisture.
 - 2. Units shall be stored in a safe, dry, inside area in room with temperature between 50 and 90 degrees Fahrenheit.

1.08 Warranty

- A. Photo darkroom sinks and print washers shall be covered by a limited warranty to the original Owner for a period of one (1) year after acceptance by the Owner.

PART 2 – PRODUCTS

2.01 Manufacturer

- A. Photo darkroom sinks and print washers indicated on the Drawings and/or specified herein shall be the products of Sebastian Darkroom Products, 32 N. Wood Rd., Camarillo, CA, 93010 (email:calstainless@aol.com)
- B. Contact Sebastian Darkroom Products (1-800-462-4398) for listing of nationwide distribution network.

2.02 Photo Darkroom Sink and Print Washer Concept

- A. Photo darkroom sinks and print washers shall be built for performance and durability, and shall be furnished by a single manufacturer unless specifically noted otherwise.
- B. Continuity and uniformity in design shall exist for all photo darkroom sinks and print washers.
- C. Darkroom sinks and print washers shall be functional and shall have the aesthetic essentials required to create pleasant, safe, efficient surroundings and designed to give long life and service.
- D. Each darkroom sink and print washer in this Section shall be built for performance and durability.
- E. Each darkroom sink and print washer shall have an integral system for leveling each unit.

- F. Each darkroom sink and print washer shall be constructed of Type 1 Polyvinyl Chloride (PVC) rigid plate and pipe, and shall be fabricated and joined by PVC cement and hot-air fusion welding.
- G. PVC plastic rigid plate shall possess minimum property values equivalent to those designated by ASTM-D-1784-69. PVC rigid plate and pipe shall be used to construct all sinks and print washers and shall be made equal to the requirements of ASTM-D-1927-67.
- H. Plumbing faucets and controls shall be laboratory grade, designed specifically for laboratory applications, shall meet the requirements of ANSI/ASME A112.18.1M, and shall be of heavy-duty brass and be electroplated chrome finish. All faucets and volume control valves shall utilize an interchangeable, renewable cartridge unit which incorporates a replaceable stainless steel valve seat. Vacuum breakers shall be ASSE certified and shall have an ultra-light float cup, silicone vent disc and replaceable seat. Eye/face wash and drench units with spray type heads shall have dual heads, shall deliver a soft, wide, high volume spray of cold water, and shall comply with ANSI Z358-1-1990.

PART 3 – EXECUTION

3.01 Examination

- A. Examine the areas and conditions under which Work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.
- B. Examine areas where photo darkroom sinks and print washers are scheduled to be installed for suitability and conformance to specified tolerances.
- C. Verify that all concealed blocking is in place.
- D. Verify that preparation for plumbing connections have been completed.

3.02 Installation

- A. Install photo darkroom sinks and print washers as recommended by the manufacturer, in accordance with approved shop drawings, utilizing equipment approved by the manufacturer.
- B. Install photo dark room sinks and print washers level and plumb and at the height indicated on the shop drawings so that units function correctly.

- C. Anchors and fasteners shall be Type 316 stainless steel.
- D. Coordinate installation with plumbing trades.

3.03 Cleaning and Protecting

- A. Clean each photo darkroom sink and print washer after installation to remove foreign material and construction dirt and dust.
- B. Cover horizontal surfaces with heavy-duty corrugated cardboard. Tape the cardboard so that it can easily be removed without damage to sinks and print washers.

3.04 Clean Up

- E. Upon completion of the Work under this Section, remove all dirt, debris, rubbish and excess material accumulated as a result of the work, and leave the area and installation in a neat, clean, proper and orderly manner.

END OF SECTION