

SPECIFICATIONS - DETAILED PROVISIONS

**SECTION 15430
EMERGENCY EYEWASH/SHOWER UNITS**

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SECTION 15430

EMERGENCY EYEWASH/SHOWER UNITS

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes: Emergency shower and eyewash.
- B. Inclusion of a specific manufacturer's name in the Specifications does not mean that the specific manufacturer's standard product will be acceptable. Specified manufacturer's or other manufacturer's standard product shall be modified as required to meet the specifications.
- C. Related Sections/Standard Drawing:
 - 1. Section F - Labor and Construction.
 - 2. Section E01430 - Maintenance Manual Requirement Section.
 - 3. Section 13422C - Flow Field Instruments.
 - 4. Section 15050 - Basic Mechanical Materials and Methods.
 - 5. Section 16050 - Basic Electrical Materials and Methods.
 - 6. Standard Drawing A-540 - Emergency Shower & Eyewash

1.02 REFERENCES

- A. American National Standards Institute (ANSI):
 - 1. Z358.1 - Emergency Eyewash And Shower Equipment.
 - 2. Z535.1 - Safety Color Code.
- B. NIOSH Schedule 13F.

1.03 SUBMITTALS

- A. Shop Drawings.
- B. Product Data:
 - 1. Submit manufacturer's product literature information for products specified.
 - 2. Manufacturer's Installation Instructions.
- C. Operation and Maintenance Data.
- D. Warranty.

1.04 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Show evidence that the firm has been engaged in producing such materials and products for at least 5 years and that the product submitted has a satisfactory performance record of at least 5 years.
- B. Installer Qualifications: Installer shall have 3 years experience in installing these materials for similar projects and shall be approved by the manufacturer prior to bidding of the project.
- C. Regulatory Requirements:
 - 1. As applicable, equipment of this Section shall comply with requirements of public agencies of the state where the project is located including OSHA, Cal-OSHA, Underwriters Laboratories, NFPA, and ASME.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Packing and Shipping: Deliver to the job site in manufacturer's original containers.
- B. Delivery: After wet operations in building are completed.
- C. Storage and Protection: Store materials in original, unopened containers in compliance with manufacturer's printed instructions.
- D. Keep materials dry until ready for use. Keep packages of material off the ground, under cover, and away from sweating walls and other damp surfaces.
- E. Protect finished surfaces from soiling and damage during handling and installation. Keep covered with a protective covering.

PART 2 PRODUCTS

2.01 EMERGENCY SHOWERS AND EYE WASHES

- A. General Design Requirements:
 - 1. Combination Unit Emergency Shower with Eyewash or Eye/Face Wash:
 - a. Floor mounted fixture consisting of pipe standard, shower head assembly, and eyewash assembly.
 - b. Provide stanchion and floor flange, with interconnecting piping.
 - 2. Shower Head Flow: 20.0 GPM.
 - 3. Eyewash or Eye/Face Wash Flow: 1.2 GPM flow, minimum.
 - 4. Provide with manufacturer's standard corrosive resistive coating for steel pipe standards.
 - 5. Meet or exceed all requirements of ANSI Z358.1.

6. Provide ANSI compliant identification sign and markings.
7. Provide dielectric coupling/bushing between dissimilar metals.

B. Stainless Steel Combination Unit Emergency Shower and Eye/Face Wash:

1. Manufacturers: One of the following, no equal:
 - a. HAWS, Model No. 8330.
 - b. Guardian Equipment, Model No. G1996.
 - c. Bradley, Model No. S19-310SSJP.
2. Pipe Standard: 1-1/4 inch stainless steel pipe (304SS) and fittings, with stainless steel rod providing additional support overhead; 5 inch diameter floor flange.
3. Shower Head:
 - a. Material and Size: Stainless steel (304SS), 10 inch diameter, or greater.
 - b. Valve and Actuator: Stay open Type 316 stainless steel ball valve actuated by rigid stainless steel pull rod.
4. Eye/Face Wash:
 - a. Valve and Actuator: Stay open Type 316 stainless steel ball valve with stainless steel ball operated by stainless steel push handle and foot treadle.
 - b. Heads: Stainless steel (304SS) soft-flow eye/face wash type heads, with integral flip top protective dust covers releasing with water pressure.
5. Receptor Bowl: Stainless steel (304SS).
6. In-Line Strainer: Stainless steel strainer for eye/face wash.

C. Safety Shower Tester:

1. Manufacturers: One of the following or equal:
 - a. Haws, No. 9010.
 - b. Fisher Scientific, No. 14-294-8.
2. Kit includes: 5-gallon plastic bucket, 7-foot long watertight 12-gallon translucent vinyl plastic bag for attaching over drench shower head, and testing record card. Bag shall have drawstring at top and be hemmed at bottom.

D. Safety Shower Tepid Water Supply System:

1. Manufacturers: One of the following or equal:
 - a. Haws.
2. General Requirements:
 - a. Provide one Tepid Water System for each safety shower unit or group of safety shower units mounted within 100 feet of each other.
 - b. Tepid Water System to provide 20 gpm of water for a period of at least 15 minutes at a delivery temperature of 80 to 85 degrees Fahrenheit.

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- E. Flow Switch:
 - 1. Provide N.O. contact for remote indication when eye wash station is in use as indicated on the Drawings.
 - 2. Switch shall be as specified in Section 13422C.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install products in accordance with manufacturers' recommendations.
- B. Install fixed equipment in accordance with manufacturer's instructions.
- C. Plumbing and mechanical work shall be in accordance with Section 15050.
- D. Electrical connections and distribution shall be in accordance with Section 16050.

3.02 PROTECTION

- A. Repair or replace defective equipment with new.

END OF SECTION 15430