



BATTERY ACCESSORIES

Spill Containment Specifications

2.8 BATTERY

G. Spill Containment & Safety Accessories

1. Containment: Provide a spill control system compliant with current regulation requirements of the Uniform and/or International Fire Codes (UFC/IFC). System shall be 4” high and extend 1” beyond the furthest point of the rack, capable of withstanding a 92 ft-lb impact without losing liquid-tight integrity. All components must be resistant to 70% concentrations of sulfuric acid in continuous emersion duty and completely free of Volatile Organic Compounds (VOC). Flooring shall be liquid tight with a pour-in, self-leveling, self priming, no V.O.C., Novalac epoxy and barriers shall be adhered to the floor with a no V.O.C. Novolac adhesive without the use of drop in anchors. System shall not require routine maintenance for continued effectiveness or warranty validation.

2. Neutralization: Provide absorption and neutralization mats in the quantity necessary to cover the entire area inside the system plus 10%. Each serialized mat shall be single-lined to maximize absorption rate of 1 quart per mat and be guaranteed to neutralize 100% of absorbed electrolyte to a pH of 7.0 – 9.0. Mats shall meet the fire safety characteristics of approved test protocols ASTM E 648-99, ASTM E 1354-99, UL-94 HBF, and NFPA 701-1999. Mats shall contain color indicators to differentiate between acidic and non-acidic exposures by turning pink if exposed to sulfuric acid and yellow for neutral liquid exposure.

3. Spill Response Kit: One spill response kit shall be provided for each battery room to comply with OSHA 29 CFR 1910.120 Appendix B and 1926.441(a)5 and minimum 20-gallon, UN Certified waste disposal drum per OSHA 29 CFR 1910.120j. Kit shall include minimum of 2- gallon capacity absorption, neutralization, and neutralization verification, clean up and disposal supplies, acid resistant gloves, apron, sleeves, overshoes, goggles, faceshield, and personal eyewash.

4. Eyewash: One eyewash station with mobile catch basin container shall be provided for each room to comply with OSHA 29 CFR 1910.151(c), 1926.50(g) and 1926.441(a)6 . Eyewash shall provide a constant, even flow for a minimum fifteen-minute duration at 0.4 gallons per minute. The unit shall be fully compliant with ANSI Z358.1-1990 and SEI certified. Eyewash shall provide positive water flow within one second of activation.

5. Aisle Mats: Battery room shall be equipped with aisle mats compliant with OSHA 29 CFR 1926.441(a)4, electrically insulating, acid resistant, skid resistant, and perforated to drain electrolyte. Mats shall have beveled edges and be easily field modified to specific aisle dimensions. Mats shall be sized to match or exceed the length of the spill containment. Electro-static dissipation gear shall be provided. Mats shall pass UL 94 HB.

6. Room Signage: Battery safety signs shall be provided for each entry door to comply with all State, Local & Federal codes. Signs shall provide information on the chemical hazards and high voltage warning.

7. Vendor: Approved vendor for spill containment and safety accessories, without substitution, shall be **Acran**.