

DT93 AHS & AHD Specification

The heavy-duty angle type floor access hatch is designed for interior and exterior applications where watertightness is not required. It is designed for direct traffic street locations that will receive AASHTO HL93 wheel loads.

SPECIFICATIONS: The floor access hatch shall be Model DT93-AHS or DT93-AHD as manufactured by U.S.F. Fabrication, Inc. with the size being specified on the plans. Cover(s) shall be 3/8-inch thick steel diamond plate reinforced for an AASHTO HL93 wheel load (ASTM C1802-14 Load Level 7). Upon request, manufacturer shall provide structural calculations, stamped by a registered professional engineer, which certify that the hatch design meets the requirements of AASHTO HL93. The frame shall be 1/2-inch thick steel angle with anchors welded to frame for casting into concrete. In the closed position the cover(s) shall be bolted to the frame with 316 stainless steel Allen-Head bolts to allow for HL93 direct traffic loading—an Allen-Head wrench will be provided with the hatch. The Allen-Head bolts must be securely fastened using Loctite Blue 242 (initial tube provided) whenever the cover(s) are closed to insure safe and proper performance of the hatch. For security cover(s) shall have a recessed staple for a padlock. The floor access hatch shall be equipped with flush steel lifting handles that do not protrude above the cover(s), and hold open arms that automatically keep the cover(s) in their upright open positions. A steel skirt shall be welded to the frame to provide a combined height equal to the depth of the concrete slab. The hatch shall have tamper resistant hinges with recessed stainless steel pins and lugs. The hatch shall have open, stainless steel, bolt-on, vertical compression springs to assist in opening the cover(s) and reducing the force during closing. The floor access hatch shall have a hot-dipped galvanized finish. Installation shall be in accordance with the manufacturer's attached instructions. The entire frame, including the seat on which the reinforcing rests, shall be supported by concrete or other material designed to support the specified load. The hatch shall be manufactured and assembled in the United States. Manufacturer shall guarantee the hatch against defects in materials and workmanship for a period of one (5) years.