



CHS1 & CHS2 H-20 Heavy Duty Channel Frame Aluminum Hatch Specification

Style "CHS1 & CHS2" heavy duty access hatch, as manufactured by EJ.

Material shall be 6061-T6 aluminum for bars, angles and extrusions. 1/4" diamond plate shall be 5086 aluminum.

Design of each access hatch shall conform to O.S.H.A. standard 1910.23

Unit designed heavy duty to 16,000 lbs + 30% impact over 10" x 20" contact area (not in driving lane). Channel frame and bearing plate must be cast into and supported by concrete designed for H-20 loads. Not suitable for placement in driving lane.

For ease of operation when opening cover, each cover shall be supplied with a heavy duty, stainless steel pneu-spring. Spring must consist of a minimum 1/2" stainless steel shaft which slides into a minimum 1" stainless steel tube. Spring must be charged with an inert gas (nitrogen). Mechanical, torsion, or coil type springs shall not be accepted as equal. Spring design must ensure ease of maintenance.

Covers shall be equipped with a cast stainless steel hold open arm with pull handle integrated into the casting. To highlight the hold open arm feature, the entire hold open arm must be supplied with a "red" powder coat finish. Any hold open arm not supplied with red powder coat finish shall not be accepted. Doors shall automatically lock open in the 90-degree position. Hold open arm shall be fastened to the frame with a 1/2" grade 316 stainless steel bolt.

Channel frame shall be of extruded aluminum, with a continuous 1-1/4" anchor flange. Frame shall have a dovetail groove to accept a 1/8" silicone cushion gasket. Channel frame shall be a minimum of 1/4" thick, with a minimum cross section of 7.5".

Each "CHS1 & CHS2" style hatch is supplied with one 1-1/2" threaded drain coupler out the bottom of channel frame.

Exterior of hatch frame shall utilize (as an isolation coating, to deter reaction of dissimilar materials) "Tufcoat 3.5PR" Industrial Coatings by Dupont at a thickness of 3 mils. Application procedure shall be as recommended by Dupont. Isolation coatings shall not be substituted.

Hinges shall be of heavy-duty cast design (butt hinges are not acceptable). Material shall be grade 316 stainless steel with a

3/8" grade 316 stainless steel pin. Hinges shall be bolted to the angle frame and diamond plate, with grade 316 stainless steel bolts and ny-lock nuts. Aluminum hinges, or stainless steel hinges not utilizing a 3/8" diameter stainless steel pin shall not be considered as equal.

Each hatch shall be supplied with a grade 316 stainless steel slam lock, with keyway protected by a threaded aluminum plug. Plug shall be flush with the top of the 1/4" diamond plate. Slam lock shall be fastened with four grade 316 stainless steel bolts and washers. Slamlocks fastened with only two bolts shall not be accepted as equal.

Each hatch shall be equipped with a cast stainless steel lift handle. The lift handle shall be flush with the top of the 1/4" diamond plate. Lift handles that are not cast stainless steel shall not be considered equal.

Welding shall be in accordance with ANSI/ASW D1.2 Structural Welding Code for Aluminum, or Canadian Welding Bureau W59.2-M1991.