

# **“EC-HD” H-20 Heavy Duty Angle Frame Aluminum Hatch**

Style “EC-HD” heavy duty access hatch, as manufactured by Syracuse Castings, Cicero, NY  
315-699-2601.

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, for H-20 wheel loads, where not subject to high-density traffic. Angle frame and bearing plate must be cast into and supported by concrete designed for H-20 wheel loads.

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.

Each door shall be equipped with a stainless steel automatic hold open arm. **To highlight this safety device, the hold open arm must be supplied with a red powder coat finish.** Doors shall lock open in the 90-degree position. Hold open arms shall be fastened to the frame with a 1/2” grade 316 stainless steel bolts. **Hold open arms not supplied with complete red powder coat finish shall not be considered equal.**

Angle frame shall be of extruded aluminum, with a continuous 1-1/2” anchor flange.

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 design. Material shall be stainless steel with a 3/8” grade 316 stainless steel pin. Hinges shall be bolted to the channel frame and diamond plate, with grade 316 stainless steel bolts and ny-lock nuts. **Aluminum hinges, or stainless steel hinges utilizing less than 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.**