

# TROUGH FRAME, HEAVY-DUTY, DOUBLE DOOR

## STEEL

The heavy-duty trough type floor access door with drainable frame is designed for interior and exterior applications where dirt and water are to be prevented from falling into the area below. It is designed for off-street locations that may occasionally receive AASHTO H20-44 wheel loads.

**SPECIFICATIONS:** The floor access door shall be Model THD as manufactured by U.S.F. Fabrication, Inc. with the size being specified on the plans. Door leaves shall be 1/4-inch thick steel diamond plate reinforced for an AASHTO H20-44 wheel load. Upon request, manufacturer shall provide structural calculations showing that the door design meets the loading requirements of AASHTO H20-44. (The floor access door is designed for off-street locations that may occasionally receive AASHTO H20-44 wheel loads.) The trough frame shall be fabricated from 1/4-inch thick steel and shall have a continuous anchor flange on all four sides. The frame shall drain water out through a 1 1/2-inch pipe coupling. The floor access door shall be equipped with a flush steel lifting handle that does not protrude above the cover, and 316 stainless steel hold open arms with red vinyl grips that automatically keep the covers in their upright, open positions. The door shall have 316 stainless steel hinges with 316 stainless steel tamper resistant bolts/locknuts. The door shall be equipped with a watertight 316 stainless steel slamlock with threaded plug, removable outside key, and fixed inside handle. The slamlock latches onto a 316 stainless steel striker plate that is bolted to the frame. The floor access door shall be furnished with one coat of shop primer. 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 door shall be manufactured and assembled in the United States. Manufacturer shall guarantee the door against defects in materials and workmanship for a period of five years.

## OPTIONAL FEATURES

- Stainless steel vertical springs or gas shocks for easy opening, (also with removable bolt-on spring housings)
- Recessed staple and other locking devices
- Frame skirts for easy casting into a concrete top slab
- Odor reduction gasket
- Nut rails with stainless steel sliding nuts for attaching cable holders, brackets & other hardware
- Fiberglass insulation with metal liner
- Custom lettering
- Stainless steel safety chains
- Fall Through Protection Systems
- Side drain coupling (instead of standard bottom drain)
- Hot dipped galvanized finish
- Mill finish (no shop primer)
- All 304 stainless steel material
- All 316 stainless steel material
- Slip resistant surface bonded to cover plate
- Hinge covers on same long side (allows springs to be horizontal)

## H-20 LOADING\*\*\*\*

| MODEL | COVER THK | FRAME OPENING*** |            | CLEAR OPENING** |            | OVERALL SIZE |            | WEIGHT*    |
|-------|-----------|------------------|------------|-----------------|------------|--------------|------------|------------|
|       | in. (mm)  | A in. (mm)       | B in. (mm) | C in. (mm)      | D in. (mm) | E in. (mm)   | F in. (mm) | Lbs. (KG)  |
| THD   | 1/4 (6)   | 30 (762)         | 48 (1219)  | 30 (762)        | 44 (1118)  | 43 (1092)    | 56 (1422)  | 528 (239)  |
| THD   | 1/4 (6)   | 30 (762)         | 54 (1372)  | 30 (762)        | 50 (1270)  | 43 (1092)    | 62 (1575)  | 589 (267)  |
| THD   | 1/4 (6)   | 36 (914)         | 48 (1219)  | 36 (914)        | 44 (1118)  | 49 (1245)    | 56 (1422)  | 597 (271)  |
| THD   | 1/4 (6)   | 36 (914)         | 60 (1524)  | 36 (914)        | 56 (1422)  | 49 (1245)    | 68 (1727)  | 688 (312)  |
| THD   | 1/4 (6)   | 42 (1067)        | 48 (1219)  | 42 (1067)       | 42 (1067)  | 55 (1397)    | 56 (1422)  | 695 (315)  |
| THD   | 1/4 (6)   | 48 (1219)        | 48 (1219)  | 48 (1219)       | 42 (1067)  | 61 (1549)    | 56 (1422)  | 732 (332)  |
| THD   | 1/4 (6)   | 48 (1219)        | 54 (1372)  | 48 (1219)       | 48 (1219)  | 61 (1549)    | 62 (1575)  | 805 (365)  |
| THD   | 1/4 (6)   | 48 (1219)        | 72 (1829)  | 48 (1219)       | 66 (1676)  | 62 (1575)    | 80 (2032)  | 1063 (482) |
| THD   | 1/4 (6)   | 60 (1524)        | 60 (1524)  | 60 (1524)       | 52 (1321)  | 74 (1880)    | 68 (1727)  | 1139 (517) |

\*Weight shown is of our standard hatch only, and does not include any optional features. \*\*Also referred to as "Actual Opening" which can vary to suit application. \*\*\*Also referred to as "Concrete Opening" when door is cast into concrete. \*\*\*\*THD steel floor access doors are intended for off-street locations that may occasionally receive AASHTO H20-44 wheel loads (16,000 lbs. over 10" x 20" area + 30% impact factor). For parking lot applications, see P-AHS and P-AHD. For direct traffic applications, see steel DT-AHS and DT-AHD. For continuous traffic applications, see cast iron frames & covers.

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