



REVOLUTION[®] Access Assembly Specification

Material

Manufacturer shall certify that all castings conform to Gray Iron ASTM A48 Class 35B. Castings must contain a minimum of 85% recycled content.

Markings

All covers shall have XXXX text permanently cast on the surface. Frames and covers shall have the approved foundry's name, part number, country of origin preceded by "Made in" (example: MADE IN USA) in compliance with the country of origin law of 1984, and production date (example: mm/dd/yy) for tracking purposes. Each casting must be marked with ASTM A48 CL35 to verify the materials used. Castings without proper markings shall be rejected.

Cover

Covers shall be designed to rotate about a fixed axis allowing the cover to be connected to the frame when opened for access to the structure. The cover must be designed to rotate clockwise or counter clockwise and if needed capable of being rotated 360 degree. The cover shall be provided with an integral cast handle to allow for safe operation. During rotation the cover shall be designed to automatically rise away from the gasket as the cover is rotated, protecting the gasket from rollout and damage. When in the closed position the cover must rest on the gasket. An integrated slip resistant surface shall be cast into the cover surface. If requested, provisions to allow for a padlock shall be provided by the manufacture. Nominal cover diameter shall be 27" with a 24" clear opening or 29.75" with a 28" clear opening. Cover shall not weigh more than 70 lbs for the 24" clear opening or 90 lbs for the 28" clear opening. All steel accessories including pins, bolts, nuts and washers shall be stainless steel.

Frame

Frame shall have a true 24" or 28" clear opening (when the cover is rotated the clear opening must still be 24" or 28"). Frames shall have a minimum of four 1" holes/slots for anchoring purposes. Frames shall be 5" in height. Frame shall be provided with a 1/4" continuous neoprene gasket adhered to a cast gasket groove and the frame shall be supplied with a cast gasket protector on the opposite side of the rotational point. Frames shall be provided with an internal bolting option that allows for replaceable threads by means of a removable stainless steel nut that is held in place by a cast iron slot that has integral cast nut retainers. Slots for embedment/lightening are not allowed in frame flange.

Certification/Standards Compliance

ASTM A48	Material
ASTM C1028	Coefficient of Friction exceeding .90
AASHTO M105	Material
ISO 9001:2008	Quality Assurance

Quality Assurance

System of manufacturing quality assurance must conform to the requirements of ISO 9001:2008 and be certified by a third party. Each cover must be able to withstand a minimum loading requirement of 2,000 lbs per AASHTO M306 proof load testing. Producing foundry must be an approved supplier to your state Department of Transportation.