



CAMPRESSION® Access Assembly Specification

General

This specification is applicable for where elimination of water infiltration, order control, and security are a concern. Assemblies shall use rotational cams that are located outside of the clear opening of the frame and allow for operation without the bolt needing to be completely removed. The cams shall be housed in a pocket area located outside of the cover and the cam shall engage on the edge of the cover. The bolts on the cams shall have the option of being removable in order to allow alternate bolts to be used. Castings shall be EJ 24" or 30" CAMPRESSION® Model or approved equal. Approved equal must meet the requirements of this specification.

Material

Manufacturer shall certify that the gray iron conforms to ASTM A48/AASHTO M105 Class 35B and ductile iron conforms to ASTM A536 grade 70-50-05 or 80-55-06. Castings must contain a minimum of 85% recycled content.

Markings

All products shall have the product name or series number (example: CAMPRESSION), country of origin, specific part number, production date, material information, and the manufacturer's identification or name (EJ) permanently cast on the product. The top of manhole covers shall have the country of origin and manufacturer's identification. Bottom of the casting shall have the product name or series number, part number, production date (example: mm/dd/yy) for tracking purposes, and material quality (such as ASTM A536) to verify the materials used. Castings without proper markings shall be rejected.

Product Specifics

This product shall be available in either a 24" or 30" clear opening design. Assemblies with 24" clear shall have 3 external cams, 30" clear shall have 4 external cams. Cams shall be designed so that the threads holding the cam can be replaced. Frames shall be made from gray iron and covers shall be made from ductile iron. Assemblies shall have a ¼" neoprene o-ring glued to the frame. Covers shall be designed with a recessed area around its entire circumference to allow the cams to work in any cover orientation. When requested, the cover shall be provided with a non-slip texture. Covers shall come with a minimum of 2 EPIC lifting locations, which allows for ease of opening. Castings shall be suitable for HS-25 traffic loading and shall have passed an 50,000 pound proof load test as outlined in AASHTO M306. Casting shall be able to hold a minimum of 7 psi internal pressure after cams are securely in place. Casting manufacturer shall also have an adjusting riser option available to allow for 2" asphalt paving rise. Castings shall be of uniform quality, free from sand holes, gas holes, cracks, shrinkage and other surface defects. Castings shall be reasonably well cleaned by shot blasting. Runners, risers, fins and other cast-on pieces shall be removed from the castings and such areas shall be ground smooth. As-cast dimensions may vary within accepted

foundry tolerances as outlined in the Iron Castings Handbook published by the American Foundrymen's Society, Inc. Nominally, casting dimensional tolerances shall be +/- 1/16 inch per foot. Castings shall be furnished uncoated.

Product Options

If desired, the product shall be provided with customer specific labeling.

Certification/Standards Compliance

ASTM A536	Material
AASHTO M103	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. Producing foundry must be an approved supplier to XXXX State Department of Transportation.