



CITY OF MIDDLETON

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BUILDING OFFICIAL DETERMINATION (BOD#3)

Bollard Blocking Mechanical Appliance

- Issue: Do bollards protecting a mechanical appliance in a garage have to be filled with concrete? Can a threaded flange be used as a substitute to a concrete footing?
- Rule: 2018 IFC 312 Appliances shall not be installed in a location subject to vehicle damage except where protected by an approved barrier. The IRC and the IMC require permanent protection for mechanical appliances subject to damage from vehicles.
- Application: The codes list several options that comply with the “permanent barrier” requirement. Use of a concrete wheel bumper, a three-inch (3”) diameter schedule 40 steel bollard, and a two-inch (2”) diameter schedule 40 steel bollard filled with concrete are specifically mentioned as approved barriers. Both the three-inch and two-inch diameter bollards must be set in a minimum of a 12”x12”x12” concrete footing.
- Determination: A three-inch diameter schedule 40 steel bollard is standard. A two-inch (2”) diameter steel schedule 40 bollard does can be used but must be filled with concrete. Both sizes of bollards must be 48” in length and set 9” in a 12”x12”x12” concrete footing. Use of a threaded flange is not an approved substitute.

Chris Grooms, Building Official

August 23, 2022

Date