

673 Communications Vault Type - Round - Material Specification

Description

This section describes Communications Vault Type - Round material specifications.

Material

(1) Furnish Communications Vault Type - Round from department approved product list conforming to WisDOT Standard Specification section 653 and standard detail drawing [SDD 9H10-1](#).

(2) Communications Vault Type - Round must be made of non-conductive materials conforming to all the requirements of the current edition of ANSI/SCTE 77 (SCTE 77) "Specifications for Underground Enclosure Integrity" and with the modified impact requirements. The tier rating and modified impact requirements are listed below.

Impact: Any portion of the enclosure shall withstand a 70 ft-lb impact administered by a weight having a "B" tup per ASTM D2444 without puncturing, splitting or cracking. The test is to be conducted at a temperature of -30 degrees Fahrenheit. The cover should be tested while placed on the enclosure.

Enclosure, extension, ring and cover shall have a minimum Tier 15 rating as specified in SCTE 77. Tier rating must be accomplished and results provided with all methods of adjustability being proposed.

(3) Must be in compliance with the 2011 "Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way" Sections R302.7.2 and R302.7.3.

(4) Vault enclosure must be a truncated cone in shape. The taper must be from the bottom to top (i.e. the diameter of the bottom shall be larger than that of the top).

(5) Vault enclosures shall be comprised of the following components listed below. No individual component shall exceed 100 pounds in weight.

(6) Main body with a depth of 42 inches, as specified in the plans, and have minimum inside diameter of 36 inches. Must be field trim able for custom lengths. Must have an open bottom with 2 inch minimum continuous support foot and a maximum diameter of 39 inches.

(7) Extension option of up to 12 inches. Must be field trim able for custom lengths. Cover must be round in shape, require a tool to open and have no threaded fasteners. Cover shall be embossed in letters at least 3/4 inches high with "WisDOT ITS" or as specified in the plans.

(8) Cover support ring with a minimum opening diameter of 34 inches. Must be adjustable for slope corrections of up to 5%. Must be designed to bond to a surrounding sidewalk, and allow for uniform cover/pavement vertical movement of up to 6 inches.

(9) Must use stainless steel hardware. Hex head bolts and nuts must be stainless steel.

Pay Item

673.0110 Communication Vault Type Round

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