Building Codes Division

Statewide Code Interpretation



Bonding of Corrugated Stainless Steel **Tubing**

REVISED: April 1, 2011

Code Sections: ORSC Sections G2408.1 and G2411.1

OESC Article 250.104(B)

OMSC C310

Code Editions: 2008 Oregon Residential Specialty Code (ORSC)

2011 Oregon Electrical Specialty Code (OESC) 2010 Oregon Mechanical Specialty Code (OMSC)

Revision Synopsis: Update code/standard editions/issue date

Date: Re-issued April 1st, 2011

Subject: Bonding requirements for Corrugated Stainless Steel

Tubing (CSST); effect of manufacturer's technical bulletins

and installation instructions.

Several manufacturers of CSST have issued technical bulletins and installation instructions that require their product to be bonded to the electrical grounding system. This manufacturer's instruction is in addition to the bonding requirement for gas

piping systems under Oregon's codes.

Both the OESC and the OMSC, require the entire gas piping system to be bonded. Under the ORSC gas piping systems must be bonded in accordance with the electrical code.

Question: When CSST is installed as a component of a gas piping

system in a building regulated under the ORSC, is the customer or contractor required to comply with a

manufacturer's instruction that recommends bonding that is in addition to the bonding requirements under the OESC?

Answer: No. In residential applications, recommendations contained in

CSST installation instructions that call for bonding that is in addition to the OESC requirement for bonding of the gas piping

system is not a requirement in Oregon.

Gas piping systems that are bonded in accordance with OESC

article 250.104(B) shall be considered to be adequately

protected.

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Analysis:

ORSC Section G2411.1 requires that bonding of gas piping systems shall be in accordance with the electrical code. OESC article 250.104(B) requires that the entire gas piping system be bonded.

ORSC Section G2408.1 requires compliance with conditions of listing, manufacturer's instructions and the code. Where a code provision is less restrictive than a condition of the listing or a manufacturer's instruction the more restrictive applies. The language in ORSC, Section G2408.1 is a general standard and is not specific to bonding of gas piping. The division interprets the more specific standard in ORSC section G2411.1, which defers to the electrical code for bonding requirements of gas piping, to supersede ORSC section G2408.1.

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