



TECHNICAL BULLETIN
Community Development & Planning
TOPIC:
Electrical Bonding Requirements for CSST Gas Pipe
June 8, 2009

Background Information:

The National Electrical Code (NEC) Section 250.104 (B) requires metal gas piping that is likely to become energized to be bonded. However the NEC does not allow metal gas piping systems to be used as a grounding electrode. Additional safety concerns from the manufacturers of Corrugated Stainless Steel Tubing (CSST) such as Gastite[®], Wardflex[®], OmegaFlex[®] and Parflex[®] Tubing by Parker Hannifin, also have similar bonding requirements in their product listing for CSST gas piping.

Contractor Responsibility:

In complying with NEC Section 250.104 (B) and CSST gas pipe manufacturers listing, an electrical contractor shall provide the necessary bonding of all gas pipe systems. The electrical contractor will be responsible to install a single bond using a #6 AWG copper conductor and listed grounding clamp attached to an accessible portion of the metal gas piping at or near the entrance to a structure for all metal gas pipe systems, including CSST.

Gastite[®] seems to be the brand that is predominantly installed. Specific CSST grounding installations details are referenced in Gastite[®] technical bulletin TB2007-01, 01-26-07 illustrating all acceptable methods of bonding CSST. Please see http://www.gastite.com/page.php?pg=technical_bulletins&idlink=link6 for a copy of the Gastite[®] technical bulletin TB2007-01, 01-26-07. Other CSST manufacturers have similar grounding requirements for bonding CSST metal gas pipe in their product listing and labeling.