

Gastite® Corrugated Stainless Steel Tubing

Electrical bonding of Gastite CSST

This technical bulletin provides requirements for the direct bonding of Gastite CSST. These requirements supersede any prior documents and are mandatory manufacturer's instructions until such time as requirements are adopted by the appropriate national/state model codes and direct bonding installation instructions are specified therein. This document replaces Technical Bulletin TB2007-01 and Section 4.10 Electrical Bonding/ Grounding of the January 2008 Gastite Design and Installation Guide. This technical bulletin is effective for a all Gastite CSST installed from this date forward. Direct bonding of Gastite CSST is required for all gas-piping systems incorporating Gastite CSST whether or not the connected gas equipment is electrically powered. This requirement is provided as part of the manufacturer's instruction for single-family and multi-family buildings. A person knowledgeable in electrical system design, the local electrical code and these requirements should specify the bonding for commercial applications. Gastite CSST installed inside or attached to a building or structure shall be electrically continuous and direct bonded to the electrical ground system of the premise in which it is installed. The gas piping system shall be considered to be direct bonded when installed in accordance with the following. The piping is permanently and directly connected to the electrical service equipment enclosure, the grounded conductor at the electrical service, the grounding electrode conductor (where of sufficient size) or to one or more of the grounding electrodes used. For single and multi-family structures, a single bond connection shall be made downstream of the individual gas meter for each housing unit and upstream of any CSST connection. The bonding conductor shall be no smaller than a 6 AWG copper wire or equivalent. The bonding jumper shall be attached in approved manner in accordance with NEC Article 250.70 and the point of attachment for the bonding jumper shall be accessible. Bonding/grounding clamps shall be installed in accordance with its listing per UL 467 and shall make metal-to-metal contact with the piping. This bond is in addition to any other bonding requirement as specified by local codes. For attachment to the CSST gas piping system, a single bonding clamp must be attached to either a segment of steel pipe or to a rigid pipe component.

The corrugated stainless steel tubing portion of the gas piping system shall not be used as the point of attachment of the bonding conductor at any location along its length under and circumstances. Proper bonding and grounding will reduce the risk of damage and fire from a lightning strike. Lightning is a highly destructive force. Even a nearby lightning strike that does not strike a structure directly can cause all electrically conductive systems in the structure to become energized. If these systems are not adequately bonded, the difference in electrical potential between the systems may cause the charge to arc from one system to another. Arcing can cause damage to CSST. Direct bonding and grounding as set forth above will reduce the risk of arcing and related damage over a non direct bonded system. Depending upon conditions specific to the location of the structure in which the Gastite system is being installed, including but not limited to whether the area is prone to lightning, the owner of the structure should consider whether a lightning protection system is necessary.



Part No	Description
S936A4	3/8" CSST Tubing Gastite - 250ft coil
S936A4-125	3/8" CSST Tubing Gastite - 125ft coil
S936A4-50	3/8" CSST Tubing Gastite - 50ft coil
S938A4	1/2" CSST Tubing Gastite - 250ft coil
S938A4-125	1/2" CSST Tubing Gastite - 125ft coil
S938A4-50	1/2" CSST Tubing Gastite - 50ft coil
S9311B4-125	3/4" CSST Tubing Gastite - 125 ft coil
S9311B4-250	3/4" CSST Tubing Gastite - 250 ft coil
S9311B4-50	3/4" CSST Tubing Gastite - 50 ft coil
S9316A4	1" CSST Tubing Gastite - 300ft coil
S9316A4-150	1" CSST Tubing Gastite - 150ft coil
S9316A4-50	1" CSST Tubing Gastite - 50ft coil
S9316A4-75	1" CSST Tubing Gastite - 75ft coil



Gastite® Corrugated Stainless Steel Tubing

Gastite® is CSA design certified to ANSI LCI-2005 for "Fuel Gas Piping Systems using corrugated stainless steel tubing (CSST)". CSST supplies natural gas or liquefied petroleum gas (LP gas) to appliances. Simple hand tools such as tubing cutters, wrenches and utility knives are all that are needed to work with the Gastite components. Gastite is a reliable, cost-effective system that can be installed in all modes of construction: residential, commercial and industrial; new construction and retrofits. Featuring its patent-pending multi-point seal, the XR2 fitting sealing surface does not sit on the cut end of the tubing, so even the most unsightly cut will yield a tight seal. The XR2 is also reduced in size and requires minimal torque, making the installation of larger sizes considerably easier. With no O-rings or gaskets, the reusable brass components provide a reliable metal-to-metal installation.



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Part No	Description
XR2FTG6	3/8" Straight Fitting tube - 1/2" MPT Gastite CSST
XR2FTG8	1/2" Straight Fitting tube - 1/2" MPT Gastite CSST
XR2FTG11	3/4" Straight Fitting tube - 3/4" MPT Gastite CSST
XR2FTG16	1" Straight Fitting tube - 1" NPT Gastite CSST

Part No	Description
XR2CPL6	3/8" Coupling Gastite CSST
XR2CPL8	1/2" Coupling Gastite CSST
XR2CPL11	3/4" Coupling Gastite CSST
XR2CPL16	1" Coupling Gastite CSST



XR2CPL8

Part No	Description
TFM201	3" x 7" Half Striker Plate for CSST Gastite
TFM204	3" x 2" Quarter Striker Plate for CSST Gastite
TFM205	3" x 12" Full Striker Plate for CSST Gastite
TFM210	6" x 17" Long Striker Plate for CSST Gastite
FLOPPY12	3/4" Coil Steel Conduit fits 3/8" CSST Gastite (50 ft/coil)
FLOPPY16	1" Coil Steel Conduit fits 1/2" CSST Gastite (50ft/coil)
FLOPPY20	1-1/4" Coil Steel Conduit fits 3/4" CSST Gastite (25ft/coil)
FLOPPY24	1-1/2" Coil Steel Conduit fits 1" CSST Gastite (25ft/coil)
MSTRAPS6	Metal Tubing Strap - Fits 3/8" Gastite CSST (250 per box)
MSTRAPS8	Metal Tubing Strap - Fits 1/2" Gastite CSST (250 per box)
MSTRAPS11	Metal Tubing Strap - Fits 3/4" Gastite CSST (150 per box)
MSTRAPS16	Metal Tubing Strap - Fits 1" Gastite CSST (100 per box)
ANGLE STUB-01-10	1/2" M x 4-1/2" L x 72.5° Angle Stub for Fireboxes Gastite CSST



STRIKER PLATES AND CONDUITS



Gastite® Corrugated Stainless Steel Tubing

Part No	Description
XR2T8	1/2" Tee Fitting Gastite CSST
XR2T11	3/4" Tee Fitting Gastite CSST
XR2T16	1" Tee Fitting Gastite CSST
XR2T-8-8-8N	1/2" x 1/2" x 1/2" NPT Tee Gastite CSST
XR2T-11-11-12N	3/4" x 3/4" x 3/4" NPT Tee Gastite CSST



XR2 TEE

Part No	Description
XR2TRM6	3/8" Termination Fitting - Cast Flange 1/2" NPT
XR2TRM8	1/2" Termination Fitting - Cast Flange 1/2" NPT
XR2TRM11	3/4" Termination Fitting - Cast Flange 3/4" NPT
XR2TRM16	1" Termination Fitting - Cast Flange 1" NPT
Note - Fittings available without the flange	

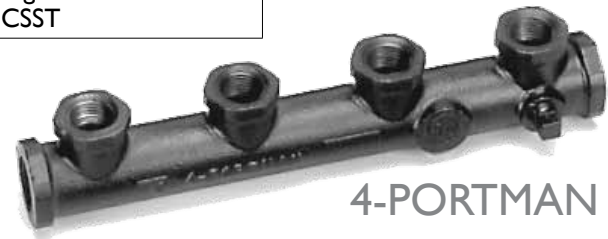


XR2
TERMINATION
FITTING

Part No	Description
1/2X12STUB	1/2"M x 12"L Straight Stub Gastite CSST
1/2X6STUB	1/2"M x 6"L Straight Stub Gastite CSST
1X12STUB	1"M x 12"L Straight Stub Gastite CSST
1X6STUB	1"M x 6"L Straight Stub Gastite CSST
3/4X12STUB	3/4"M x 12"L Straight Stub Gastite CSST
3/4X6STUB	3/4"M x 6"L Straight Stub Gastite CSST
XRAPSTUB11	1/2" M x 1/2" M x 1-1/2" Stub length with 3/4" female fitting Gastite CSST
XRAPSTUB11-11	3/4" M x 3/4" M x 1-1/2" Stub length with 3/4" female fitting Gastite CSST
XRAPSTUB8	1/2" M x 1/2" M x 1-1/2" Stub length with 1/2" female fitting Gastite CSST



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4-PORTMAN

Part No	Description
4-PORTMAN	Four ports 3/4" F by 1/2" F x 1/2" F Gastite CSST

Part No	Description
GTCUTTER SM	Cutter with flat rollers for 3/8" - 1" Gastite CSST
GTCUTTER LG	Cutter with flat rollers for up to 2" Gastite CSST
GTBLADE LG	Replacment Blade for GTCUTTER LG Gastite CSST pkg of 5 blades
GTBLADE SM	Replacment Blade for GTCUTTER SM Gastite CSST pkg of 5 blades

