



**City of Des Moines
Permit and Development Center**

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CORRUGATED STAINLESS STEEL TUBING (CSST) - BONDING

BACKGROUND:

CSST is a gas piping product very common in residential construction. Thousands of feet of this product have been installed in homes over the past several decades. In recent years, a significant number of residential house fires have been determined to be caused by pin-hole leaks in CSST piping as a result of indirect lightning strikes. CSST manufacturers have researched the causes of such fires and determined that CSST piping shall be electrically “bonded” at the point where the pipe enters the house.

WHAT IS BONDING?

Bonding is the connection of the gas piping system to the electrical ground. Bonding must be permitted and installed by licensed electrical or mechanical contractors and inspected by City inspection staff.

WHEN WILL CITY STAFF CHECK FOR CSST BONDING?

- When inspecting new construction.
- When inspecting additions and remodels of existing structures.
- When inspecting replacement furnaces and water heaters.
- During rental inspections.