

Gas piping

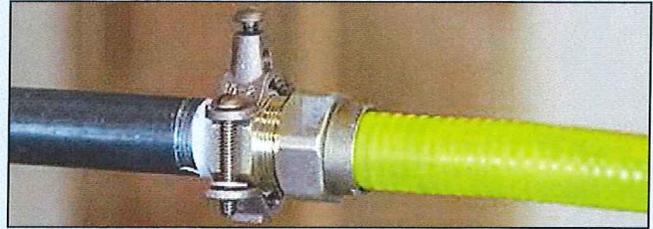
Update about corrugated stainless steel tubing requirements

The changes to the requirements for electrical bonding of CSST in National Fire Protection Association (NFPA) 54: ANSI Z223.1–2015 National Fuel Gas Code provide clear direction for electricians and electrical contractors.

The new rules in Section 7.13.2 apply to all CSST gas piping systems and gas piping systems containing one or more segments of CSST and reflect a better understanding of both the grounding electrode system and the effectiveness of lightning protection.

Just as before the new rules, the bonding connection must be made to metallic pipe, pipe fitting or the CSST fitting (not the tubing itself) and the minimum bonding conductor size is still #6 copper.

The maximum length of the bonding conductor has been changed. Independent testing revealed the bond between the tubing and the premise's grounding electrode system



Rules about how to properly provide electrical bonding with corrugated stainless steel tubing have been clarified.

provided lightning protection only when the conductor length was as short as practicable and limited to no more than 75 feet.

The most significant change is the connection to the grounding electrode system no longer needs to be made at the electrical service panel. The bond connection should be made to the nearest point anywhere on the grounding electrode system.

Registrations

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- electricians, and
- the employer must employ a master electrician who will be responsible for compliance with the licensing and inspection requirements.

Maintenance registration

Additional alternatives might apply if the employees will perform only electrical maintenance work as defined in MN Rules 3800.3500 as the “adjustment, repair or replacement of worn or defective parts of electrical equipment” and includes the replacement of broken receptacles and switches.

Conditions for performing only electrical maintenance work are:

- the employer must file a registration with DLI,
- unlicensed employees who will perform only electrical maintenance work must register with DLI as unlicensed maintenance electricians and:



- the employer may employ a licensed maintenance electrician or electrical engineer to provide general supervision to employees performing only electrical maintenance work or,
- the employer may engage the services of the responsible master electrician of an electrical contractor to provide general supervision to employees performing only electrical maintenance work.

Similar registration alternatives are available for employers if the employees will perform only installation and maintenance of technology circuits and systems.

This is a summary of the statutory requirements and the language of the Minnesota Electrical Act will be enforced.

More information about registration is available at www.dli.mn.gov/CCLD/LicElectricalUnlicensed.asp.