

Subject 360

September 21, 2018

SUMMARY OF TOPICS

The following changes in requirements to the Standard for Liquid-Tight Flexible Metal Conduit, UL 360, are being proposed:

1. Correction to Pipe Stiffness Units

STP BALLOTS AND ALL COMMENTS DUE: October 22, 2018

If you are interested in applying for STP 6 membership or are aware of potential candidates for this STP, please contact the STP Project Manager, Joshua.Johnson@ul.com.

For your convenience in review, proposed additions to existing requirements are shown underlined and proposed deletions are shown ~~lined-out~~.

1. Correction to Pipe Stiffness Units

RATIONALE

Proposal submitted by: David Gerstetter, UL Inc.

This proposal is intended to correct the units stated in the standard for pipe stiffness psi (pounds per square inch) and to remove the incorrect reporting of pipe stiffness in pascals. Pascal is the SI unit of pressure, equal to one newton per square meter (approximately 0.000145 pounds per square inch, or 9.9×10^{-6} atmospheres). Although widely misused psi (pounds per square inch) is not the correct unit for reporting pipe stiffness. The Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading, ASTM D2412 applies a load (pounds of force) to a specific sample length of pipe (units in inches) that has been placed between two parallel plates. The pipe is deflected between the two plates to a specific percentage from round and is measured (units in inches of deflection from round). Therefore, what is actually revealed is pounds per inch of pipe length per inch of deflection from round, or pii (lbs./in/in). Furthermore, 827 Pa are not 120psi. 827 kPa are the equivalent of 120psi.

PROPOSAL

13 Pipe Stiffness for Conduit Intended for Direct-Burial

13.1 Conduit which is intended for direct burial use shall have a minimum pipe stiffness of 120 ~~psi (827 Pa)~~ lbs./in/in at 10 percent deflection when determined in accordance with the Standard Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading, ASTM D2412.

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