

SUMMARY OF TOPICS

The following changes in requirements to the Standard for Electrical Metallic Tubing - Steel, UL 797, are being proposed for preliminary review and comment only:

- 1. For Preliminary Review Only: Annex A Normative References Update***
- 2. For Preliminary Review Only: Interpretation of Flammability Test Result for a Thin Nonmetallic Topcoat (Outermost Layer) of an Alternate Corrosion Protection System***
- 3. For Preliminary Review Only: Clarification of Elbow and Bend Radius Requirements, Removal of the Term Mandrel, Addition of Exemption for Supplementary Coatings from Bend Test to Better Align with RMC Standard and Editorial Changes***
- 4. For Preliminary Review Only: Removal of Figure 2 and All References to Figure 2***

COMMENTS DUE: August 20, 2018

This proposal is for review and comment only (no ballot at this time). Please note that comments on a preliminary review document will not receive a response from the proposal author through CSDS. Instead, the proposal author will be asked to review the comments and adjust the proposals and/or supporting rationale as the author determines to be appropriate. The preliminary review process is an informal mechanism that provides authors with the opportunity to refine their proposals before they advance to the next stage in UL's standards development process.

In some cases, the author of the proposals may choose to discontinue them. In this case, the author need not do anything after preliminary review has ended. Normally, the next step in the process is the more formal STP ballot and stakeholder review process. Only comments posted during the STP ballot and stakeholder review process will be provided with a response in CSDS.

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. For Preliminary Review Only: Annex A Normative References Update

RATIONALE

Proposal submitted by: David Gerstetter, Underwriters Laboratories, Inc

The normative references in Annex A, for installation codes in particular, require updating in order to support other standard proposals being submitted, e.g. removal of bend radius.

PROPOSAL

*UL COPYRIGHTED MATERIAL –
NOT AUTHORIZED FOR FURTHER REPRODUCTION OR
DISTRIBUTION WITHOUT PERMISSION FROM UL*



Documents

Document Sharing Hub

Annex A (normative)

A.1 Normative references

(See Clause 2.1)

Reference item no.	Clause where referenced	United States	Canada	Mexico
1	1.1	NFPA 70–2005 2017, <i>National Electrical Code</i>	CSA C22.1-06 15, Part 1, <i>Canadian Electrical Code</i>	NOM-001-SEDE, <i>Standard for Electrical Installations</i>
2	1.2	UL 797A <i>Electrical Metallic Tubing – Aluminum</i>	CSA C22.2 No. 83-M1985 (R2003), <i>Electrical Metallic Tubing</i>	NMX-576-ANCE-2005, <i>Aluminum Rigid Conduit for Electrical Conductor Protection and Fittings</i>
3	5.3.3.2	UL 514B <i>Conduit, Tubing and Cable Fittings</i>	C22.2 No. 18.3-04, <i>Conduit, Tubing and Cable Fittings</i>	NMX-J-017-ANCE-2005, <i>Conduit, Tubing and Cable Fittings – Specifications and Test Methods</i>
4	5.3.5.2	UL 746A <i>Polymeric Materials – Short Term Property Evaluations</i> , and UL 514B <i>Conduit, Tubing and Cable Fittings</i>	CAN/CSA C22.2 No. 0.17-00 (R2004) <i>Evaluation of Properties of Polymeric Materials</i> ; and CSA C22.2 No. 18.3-04, <i>Conduit, Tubing and Cable Fittings</i>	NMX-J-023/1-ANCE-2000, <i>Electrical Products – Metallic Outlet Boxes Part 1: Specifications and Test Methods</i> and NMX-J-017-ANCE, <i>Conduit, Tubing and Cable Fittings – Specifications and Test Methods</i>
5	5.4.2	UL 514B <i>Conduit, Tubing and Cable Fittings</i>	CSA C22.2 No. 18.3-04, <i>Conduit, Tubing and Cable Fittings</i>	NMX-J-017-ANCE-2005, <i>Conduit, Tubing and Cable Fittings – Specifications and Test Methods</i>
6	5.5.1	UL 514B <i>Conduit, Tubing and Cable Fittings</i>	CSA C22.2 No. 18.3-04, <i>Conduit, Tubing and Cable Fittings</i>	NMX-J-017-ANCE-2005, <i>Conduit, Tubing and Cable Fittings – Specifications and Test Methods</i>
7	6.2.1.4	UL 746A <i>Polymeric Materials – Short Term Property Evaluations</i>	CAN/CSA C22.2 No. 0.17-00 (R2004), <i>Evaluation of Properties of Polymeric Materials</i>	NMX-J-023/1-ANCE-2000, <i>Electrical Products – Metallic Outlet Boxes Part 1: Specifications and Test Methods</i>
8	6.2.2.11	ASTM A 239-95 (2004), <i>Standard Practice for Locating the Thinnest Spot in a Zinc (Galvanized) Coating on Iron or Steel Articles</i>	ASTM A 239-95 (2004), <i>Standard Practice for Locating the Thinnest Spot in a Zinc (Galvanized) Coating on Iron or Steel Articles</i>	NMX-H-013-1984, <i>Coating – Zinc – Locating the Thinnest Spot on Galvanized Steel Articles – Test Method (Preece Test)</i>
9	6.2.4.1	UL 514B <i>Conduit, Tubing and Cable Fittings</i>	CSA C22.2 No. 18.3-04, <i>Conduit, Tubing and Cable Fittings</i>	NMX-J-017-ANCE-2005, <i>Conduit, Tubing and Cable Fittings – Specifications and Test Methods</i>

UL COPYRIGHTED MATERIAL –
NOT AUTHORIZED FOR FURTHER REPRODUCTION OR
DISTRIBUTION WITHOUT PERMISSION FROM UL

Table Continued on Next Page



Documents

Document Sharing Hub

Table Continued

Reference item no.	Clause where referenced	United States	Canada	Mexico
10	6.2.4.5.2	ASTM D 1654-05, <i>Procedure A, Method 2, Standard Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments</i>	ASTM D 1654-05, <i>Procedure A, Method 2, Standard Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments</i>	NMX-J-023/1-ANCE-2000, <i>Electrical Products – Metallic Outlet Boxes Part 1: Specifications and Test Methods</i>
11	6.2.4.5.3	ASTM G 153-04, <i>Standard Practice for Operating Enclosed Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials</i>	ASTM G 153-04, <i>Standard Practice for Operating Enclosed Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials</i>	NMX-J-023/1-ANCE-2000, <i>Electrical Products – Metallic Outlet Boxes Part 1: Specifications and Test Methods</i>
12	6.2.4.5.4	ASTM G 155-05, <i>Cycle 1, Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials</i>	ASTM G 155-05, <i>Cycle 1, Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials</i>	NMX-J-023/1-ANCE-2000, <i>Electrical Products – Metallic Outlet Boxes Part 1: Specifications and Test Methods</i>
13	6.2.4.6.1	ASTM B 117-03, <i>Standard Practice for Operating Salt Spray (Fog) Apparatus</i>	ASTM B 117-03, <i>Standard Practice for Operating Salt Spray (Fog) Apparatus</i>	NMX-D-022-1973, <i>Method of Test for Corrosion – Resistance of Coated Metal Parts Used in Motor Vehicles Salt Spray (Fog) Method</i>
14	6.2.4.6.2	ASTM D 1654-05, <i>Procedure A, Method 2, Standard Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments</i>	ASTM D 1654-05, <i>Procedure A, Method 2, Standard Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments</i>	NMX-J-023/1-ANCE-2000, <i>Electrical Products – Metallic Outlet Boxes Part 1: Specifications and Test Methods</i>
15	6.2.4.7.2	ASTM D 1654-05, <i>Procedure A, Method 2, Standard Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments</i>	ASTM D 1654-05, <i>Procedure A, Method 2, Standard Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments</i>	NMX-J-023/1-ANCE-2000, <i>Electrical Products – Metallic Outlet Boxes Part 1: Specifications and Test Methods</i>
16	6.2.4.8.1	ASTM D 638-03, <i>Standard Test Method for Tensile Properties of Plastics</i>	ASTM D 638-03, <i>Standard Test Method for Tensile Properties of Plastics</i>	NMX-E-082-2002, <i>Plastic Industry-Tensile Strength of Plastic Materials-Test Methods</i>
17	6.2.4.9.2	ASTM D 3359-02, <i>Standard Test Methods for Measuring Adhesion by Tape Test</i>	ASTM D 3359-02, <i>Standard Test Methods for Measuring Adhesion by Tape Test</i>	NMX-H-013-1984, <i>Coating – Zinc – Locating the Thinnest Spot on Galvanized Steel Articles – Test Method (Preece Test)</i>

UL COPYRIGHTED MATERIAL –
NOT AUTHORIZED FOR FURTHER REPRODUCTION OR
DISTRIBUTION WITHOUT PERMISSION FROM UL

Table Continued on Next Page



Documents

Document Sharing Hub