STANDARD FOR SAFETY

UL 2577, Suspended Ceiling Power Grid Systems and Equipment

Standards Council of Canada
Conseil canadien des normes

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UL Standard for Safety for Suspended Ceiling Power Grid Systems and Equipment, UL 2577

First Edition, Dated February 7, 2013

Summary of Topics

This revision of UL 2577/ULC-S2577 is being issued to update the title page to reaffirm approval as an American National Standard and as a National Standard of Canada. No changes in requirements have been made.

The requirements are substantially in accordance with Proposal(s) on this subject dated March 23, 2018.

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin.

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Commitment for Amendments

This Standard is issued jointly by Underwriters Laboratories Inc. (UL) and ULC Standards. Amendments to this Standard will be made only after processing according to the Standards writing procedures by UL and ULC Standards.

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In Canada, written comments are to be sent to ULC Standards, 400 – 171 Nepean Street, Ottawa, Ontario KP2 0B4. Proposals should be submitted on a Standards Revision Request Form available from ULC Standards.

This ANSI/UL Standard for Safety consists of the First Edition including revisions through August 3, 2018.

The most recent designation of ANSI/UL 2577as a Reaffirmed American National Standard (ANS) occurred on August 3, 2018. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page (front and back), or the Preface.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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Preface

This is the common UL and ULC Standard for Suspended Ceiling Power Grid Systems and Equipment. It is the First edition of both CAN/ULC-S2577 and ANSI/UL 2577.

This Joint Standard was prepared by Underwriters Laboratories Inc., ULC Standards, and the Technical Committee on Solid State Lighting (TCSSL). The standard was formally approved by the UL/ULC Technical Committee on Solid State Lighting (TCSSL). The efforts and support of the Technical Committee are gratefully acknowledged.

Only metric SI units of measurement are used in this Standard. If a value for measurement is followed by a value in other units in parentheses, the second value may be approximate. The first stated value is the requirement.

In Canada, there are two official languages, English and French. All safety warnings must be in French and English. Attention is drawn to the possibility that some Canadian authorities may require additional markings and/or installation instructions to be in both official languages.

Annexes A and B, both identified as normative, form a mandatory part of this Standard.

Note: *Although the intended primary application of this Standard is stated in its scope, it is important to note that it remains the responsibility of the users of the standard to judge its suitability for their particular purpose.*

Level of Harmonization

This Standard is published as an identical standard between UL and ULC Standards. An identical standard is a standard that is the same in technical content except for conflicts in Codes and Governmental Regulations. Presentation shall be word for word except for editorial changes.

Interpretations

The interpretation by the SDO of an identical or equivalent standard shall be based on the literal text to determine compliance with the standard in accordance with the procedural rules of the SDO. If more than one interpretation of the literal text has been identified, a revision shall be proposed as soon as possible to each of the SDOs to more accurately reflect the intent.

INTRODUCTION

1 Scope

1.1 These requirements cover suspended ceiling grid low voltage/extra-low voltage systems and equipment intended for installation and use in accordance with the:

In Canada:

Canadian Electrical Code, Part I, Safety Standard for Electrical Installations, CSA C22.1,

In the United States:

National Electrical Code (NEC), ANSI/NFPA 70.

1.2 The suspended ceiling grid low voltage/extra-low voltage systems covered by this standard are intended to be installed as a suspended ceiling grid that provides mechanical support for the ceiling tiles and provides electrical connections between the low voltage/extra-low voltage power supply and the low voltage/extra-low voltage equipment. The low voltage/extra-low voltage system consists of the following components:

a) An isolating type low voltage/extra-low voltage power supply with output(s) operating at 30 V (42.4 V peak) or less and not exceeding Class 2 power limits,

b) A grid rail power distribution system to provide power from the Class 2 power supply to one or more pieces of Class 2 powered equipment, and

c) Class 2 powered equipment that is electrically connected to the suspended ceiling grid low voltage/extra-low voltage system.

1.3 The suspended ceiling grid low voltage/extra-low voltage system is intended to be permanently connected, for indoor dry locations, and installed in accordance with the following requirements:

In Canada:

Canadian Electrical Code, Part I, Safety Standard for Electrical Installations, CSA C22.1, and the National Building Code of Canada.

In the United States:

National Electrical Code (NEC), ANSI/NFPA 70, the International Building Code (IBC), and the International Mechanical Code (IMC).

This standard also covers suspended ceiling grid low voltage/extra-low voltage systems intended for use in air-handling spaces.