CAN/ULC-S2577-13-R2018
(Reaffirmed 2018)

STANDARD FOR SUSPENDED CEILING POWER GRID SYSTEMS AND EQUIPMENT

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ANSI/UL 2577-2017 (R2018)

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Standard for Suspended Ceiling Power Grid Systems and Equipment, CAN/ULC-S2577-13-R2018

First Edition, Dated February 2013

Summary of Topics

This revision of CAN/ULC-S2577 is being issued to update the title page to reflect the reaffirmation of this First Edition National Standard of Canada. No changes in requirements are involved.

The requirements are substantially in accordance with Proposal(s) on this subject dated February 16, 2018.

PLEASE NOTE THAT CERTAIN CODES MAY REFER TO A SUPERSEDED VERSION OF THIS STANDARD. IN THOSE INSTANCES, THE RELEVANT VERSIONS ARE AVAILABLE FOR PURCHASE.

No Text on This Page

Prepared by:

ULC Standards
CAN/ULC-S2577-13-R2018
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Underwriters Laboratories Inc.
ANSI/UL 2577
First Edition

Standard for Suspended Ceiling Power Grid Systems and Equipment

February 7, 2013

(Title Page Reprinted: August 3, 2018)

ANSI/UL 2577-2017 (R2018)

Commitment for Amendments

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

The most recent designation of ANSI/UL 2577 as an American National Standard (ANSI) 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.

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ULC Preamble

International Classification for Standards (ICS): 29.140.50; 91.060.30

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Attention is drawn to the possibility that some of the elements of this Canadian standard may be the subject of patents rights. ULC Standards shall not be held responsible for identifying any or all such patents rights.

This Standard is intended to be used for conformity assessment.

This First Edition National Standard of Canada was based on the First Edition including Amendment 1 and 2, and has now been reaffirmed.

The Amendments to the First Edition of this ULC Standard were based on, and superseded, the First Edition.

This CAN/ULC-S2577 Standard is under continuous maintenance, whereby each revision is approved in compliance with the requirements of ANSI and SCC for accreditation of a Standards Development Organization. In the event that no revisions are issued for a period of four years from the date of publication, action to revise, reaffirm, or withdraw the standard shall be initiated.

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

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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 identifed 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 standards development organization 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 standards development organization. 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 standards development organizations to more accurately reflect the intent.

A 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.

1.4 This standard does not address any supplemental or alternative requirements for suspended ceiling grid low voltage/extra-low voltage systems intended for use in:

In Canada:

a) Hazardous locations as specified in the Canadian Electrical Code, Part I, Safety Standard for Electrical Installations, CSA C22.1;

b) General patient care areas or critical patient care areas as defined by Section 24 of the Canadian Electrical Code, Part I, Safety Standard for Electrical Installations, CSA C22.1; or

c) Emergency systems as defined by Section 46 of the Canadian Electrical Code, Part I, Safety Standard for Electrical Installations, CSA C22.1.

In the United States:

a) Hazardous locations as specified in the National Electrical Code (NEC), ANSI/NFPA 70;

b) General patient care areas or critical patient care areas as defined by Article 517 of the National Electrical Code (NEC), ANSI/NFPA 70; or

c) Emergency systems as defined by Article 700 of the National Electrical Code (NEC), ANSI/NFPA 70.

1.5 This standard does not evaluate the suspended ceiling grid low voltage/extra-low voltage system for seismic requirements in accordance with the:

In Canada:

National Building Code of Canada.

In the United States:

International Building Code (IBC).

1.6 This standard does not evaluate the suspended ceiling grid low voltage/extra-low voltage systems for fire resistance.