UL 2703

STANDARD FOR SAFETY

Mounting Systems, Mounting Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels

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UL Standard for Safety for Mounting Systems, Mounting Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels, UL 2703

First Edition, Dated January 28, 2015

Summary of Topics

This revision of ANSI/UL 2703 dated April 28, 2026 includes the following changes in requirements:

– Scope Update in 1.2 to Remove Maximum Voltage; 1.2, 2.25 (deleted) and 7.2.

– Scope Correction in 1.3.

– Scope Clarification in 1.4.

– Addition of AZ50 as an Approved Corrosion Resistant Coating Similar to G90 Hot-Dipped Galvanized Coating in 10.2.

– Addition of ZM40 "Hot-dipped Zinc-Aluminum-Magnesium alloy-coating" as an Approved Corrosion Resistant Coating Similar to G90 Hot-Dipped Galvanized Coating in 10.2.

– Clarification of Installation, Assembly and Maintenance/Inspection Instructions in 26.1.

– Additional Requirement in Section 26, Installation, Assembly and Maintenance/Inspection Instructions; 26.11.

– Relocation of Component Standard References from Appendix A to the Body of the Standard and Deletion of Appendix A; Section 4, Section 5 and Appendix A.

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

The new and revised requirements are substantially in accordance with Proposal(s) on this subject dated January 23, 2026 and March 27, 2026.

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UL 2703

Standard for Mounting Systems, Mounting Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels

First Edition

January 28, 2015

This ANSI/UL Standard for Safety consists of the First Edition including revisions through April 28, 2026.

The most recent designation of ANSI/UL 2703 as an American National Standard (ANSI) occurred on April 28, 2026. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, and Title Page.

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

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CONTENTS

INTRODUCTION

1 Scope 5
2 Glossary 6
3 Units of measurement 11
4 Components 11
5 Referenced Publications 11

CONSTRUCTION

6 General 13
7 Polymeric Materials 20
8 Grounding and Grounding Devices 21
9 Bonding 22
10 Corrosion Resistance 25
11 Fire Resistance 27

PERFORMANCE

12 General 27
13 Bonding Path Resistance Test 28
14 Terminal Torque Test 29
15 System Fire Class Rating of Mounting Systems with Modules or Panels in Combination with Roof Coverings 29
15.1 General 29
15.2 Spread-of-flame tests 33
15.3 Burning-brand tests for steep sloped mounting systems 44
15.4 Recording 46
16 Accelerated Aging Test 46
17 Temperature Cycling Test 47
18 Humidity Test 48
19 Corrosive Atmosphere Tests 49
19.1 Salt spray test 49
19.2 Moist carbon dioxide/sulphur dioxide test 53
20 Metallic Coating Thickness Test 54
21 Mechanical Loading Test 55
22 Bonding Conductor Test 57
23 Bonding Strap Pull Test (Only for flat bonding straps with flat end terminations/crimps) 59

RATINGS

24 Details 59

MARKINGS

25 Details 60

INSTRUCTIONS

26 Installation, Assembly and Maintenance/Inspection Instructions 60

APPENDIX A Standards for Components

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APPENDIX B Retest Guidelines (Informative)

APPENDIX C Example Clamp Load Calculations (Informative)

APPENDIX D Common Mounting System Fastener Standards and Specifications (Informative)

APPENDIX E Average Torque Coefficients (K_{ave}) (Informative)

APPENDIX F Determining Minimum Expected Clamp Load (Informative)

F.1 General 76
F.2 Example Test Procedure 79
F.3 Test Details 80
F.4 Example Statistical Method to Establish Minimum Clamp Load 81

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INTRODUCTION

1 Scope

1.1 These requirements cover rack mounting systems, mounting grounding/bonding devices, and clamping/retention devices for specific (manufacturer/model designation) flat-plate photovoltaic modules and panels that comply with the Standard for Flat-Plate Photovoltaic Modules and Panels, UL 1703, or the Standard for Photovoltaic (PV) Module Safety Qualification – Part 1: Requirements For Construction, UL 61730-1 and the Standard for Photovoltaic (PV) Module Safety Qualification – Part 2: Requirements For Testing, UL 61730-2, intended for installation on or integral with buildings, or to be freestanding (i.e., not attached to buildings), in accordance with the National Electrical Code, ANSI/NFPA 70 and Model Building Codes. Systems, components and/or devices evaluated under this standard may be used to ground and/or mount a PV module complying with UL 1703 or UL 61730-1 and UL 61730-2 when the specific module or frame has been evaluated for bonding/grounding or the module has been evaluated for mounting with the evaluated system, component or device.

1.2 These requirements cover rack mounting systems and clamping devices intended for use with photovoltaic module systems.

1.3 These requirements cover rack mounting systems, clamping, retention devices pertaining to ground/bonding paths, mechanical strength, fire classification, and suitability of materials only.

1.4 These requirements do not cover:

a) Equipment intended to accept the electrical output from the array, such as power conditioning units (inverters) and batteries.

b) Solar trackers or tracker mechanisms (except as specifically directed as to be utilized by the Standard for Solar Trackers, UL 3703 and in combination with UL 3703).

c) Cell assemblies intended to operate under concentrated sunlight.

d) Optical concentrators.

e) Combination photovoltaic-thermal modules or panels.

f) Equipment intended to carry current as a normal function of that component, such as combiner boxes, connection boxes (other than connection box for grounding), wireways and enclosures housing live parts. See the Standard for Flat-Plate Photovoltaic Modules and Panels, UL 1703 or the Standard for Photovoltaic (PV) Module Safety Qualification – Part 1: Requirements For Construction, UL 61730-1, or the Standard for Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources, UL 1741.

g) Ground rods and ground rod accessories.

h) The mechanical and structural requirements of the international building code. See (i).

Note: The IBC and other model codes may have additional requirements. As an example, compliance with the IBC will require development load combinations which include dead, snow, wind and seismic forces using ASCE 7. These loads will need to be applied in three orthogonal directions and the load resisting elements of the system will be required to adequately support the applied loads.

i) Roof attachments for above roof mounting.

j) Flashing materials, devices, and systems intended to provide resistance to water penetration to the interior of the building.

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