

STANDARD INFORMATION

Standard Number: UL 2703

Standard ID: Mounting Systems, Mounting Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels [UL 2703:2015 Ed.1+R:16Dec2019]

Previous Standard ID: Mounting Systems, Mounting Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels [UL 2703:2015 Ed.1+R:05Sep2019]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **December 16, 2022**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard.

Overview of Changes: Marking and Manual Revisions. Specific details of new/updated requirements are found in table below.

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



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CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined-out below.</i>
	Info	RATINGS
24	Info	Details
		<i>New clause added;</i>
24.2		When tested in accordance with Section 15, the rack mounting system shall have a system Fire Class rating of A, B, or C.
		<i>New clause added;</i>
24.3		When tested in accordance with Section 21, the system shall have a load rating.
	Info	MARKINGS
25	Info	Details
		<u>Each component or subassembly of a rack mounting system shall have a plain, legible, permanent marking that is molded, die-stamped, paint-stenciled, stamped, or etched metal that is permanently secured, or indelibly stamped on a pressure-sensitive label secured by adhesive that complies with the Standard for Marking and Labeling Systems, UL 969. Ordinary usage, handling, storage, and the like of the component or subassembly shall be considered in determining whether a marking is permanent. The marking shall include:</u>
25.1		<ul style="list-style-type: none">a) The manufacturer's name, trademark, or other descriptive marking by which the organization responsible for the product can be identified;b) The model number or the equivalent;c) The date or other dating period of manufacture not exceeding any three consecutive months.d) <u>A factory code indicating its place of manufacture.</u>
		Exception No. 1: The manufacturer's identification may be in a traceable code if the product is identified by the brand or trademark owned by a private labeler.
		Exception No. 2: The date of manufacture may be abbreviated; or may be in a nationally accepted conventional code or in a code affirmed by the manufacturer, provided that the code
		<ul style="list-style-type: none">a) Does not repeat in less than 10 years; andb) Does not require reference to the production records of the manufacturer to determine when the product was manufactured.
		<u>Exception No. 3: Alternatively, the markings are permitted to be on the smallest unit packaging.</u>
		<u>Exception No. 4: No markings are required on commonly available hardware (such as screws, bolts, or washers).</u>



CLAUSE	VERDICT	COMMENT
	Info	INSTRUCTIONS
26	Info	Installation, Assembly and Maintenance/Inspection Instructions
26.1		<p>Rack mounting systems and clamping devices shall be supplied with installation instructions. They shall include:</p> <p><u>a) Scope of evaluation (grounding/bonding, fire classification, and/or mechanical loading);</u> <u>b) A list of all evaluated PV modules or PV module fire types or the statement “To be used only in combination with modules that include this specific rack system in the module manufacturer’s installation manual”;</u> <u>c) Direction on allowable spans and cantilevers;</u> <u>d) Torque values necessary for metal-to-metal field connected fasteners;</u> <u>e) A representative diagram of the rack mounting system; and</u> <u>f) Description, illustration, and part number to clearly identify each component of the rack mounting system.</u></p> <p><u>Exception: When instructions furnished with a rack mounting system specify hardware that is commonly available commercially, the manufacturer shall not be required to provide the hardware with the unit, nor show an illustration of such hardware.</u></p>
26.2		<p>The installation instructions shall include a detailed description of the grounding method, where applicable, to be used in accordance with the National Electrical Code, ANSI/NFPA 70. <u>The instructions provided for the installation of grounding and bonding devices shall not result in an installation violating the instructions and labels relating to grounding and bonding for a PV module meeting the requirements of UL 1703 or UL 61730-1, whichever applies.</u> This description shall include:</p> <p>a) The size, type, and temperature rating of the conductors to be used, and b) The specific grounding devices and hardware (such as nuts, bolts, star washers, spilt-ring lock washers, flat washers, or bonding devices) that are used to attach a grounding/bonding device that complies with this standard, and <u>c) A representative diagram to illustrate the minimum ground path, with each point of a grounding or bonding connection clearly identified.</u></p>
26.4		<p><u>The instructions shall include the following direction for continued maintenance by qualified persons:</u></p> <p>a) <u>The statement “Any loose components or fasteners shall be re-tightened in accordance with these instructions”, or the equivalent.</u> b) <u>The statement “Any components showing signs of damage that compromise safety shall be replaced immediately,” or the equivalent.</u></p>