

## **Agreement between the SEIA PV Mounting System Manufacturers Committee And the County of Los Angeles Regarding PV Mounting System Installation Instruction Requirements**

*Note: Items highlighted in gray (4, 5, 7, 8, 9, and 13) have been removed from the list. Rationale for removal is stated within the comments section of this document. Line item 11 rewording is under consideration.*

1. Any mention or depiction of any metal-to-metal fastener that has a torque value shall be accompanied by the torque value. The use of a table to present torque values as opposed to providing the value at every mention of a fastener is acceptable. This requirement can also be met by having the Installation Instructions provide identifying photos or other graphic representations of the components that make up the racking system (Item 6 below). When relevant, the torque value for the component can be presented there.  
**MSMC Comments: This was reworded for clarity; provides manufacturer with more flexibility as to how they are described in the manual.**
2. There shall be a generic warning in the Installation Instructions about contact between bare copper and aluminum and galvanized steel.  
**MSMC Comments: Reworded for clarity with the addition of zinc aluminum coated steel.**
3. There shall be a generic diagram of the typical system ground path with each point of a grounding/bonding connection clearly identified.  
**MSMC Comments: Further clarification to be considered by STP / word “clearly” added to avoid mandating the use of a “ground” symbol. Section 26.1 and 26.2 of UL 2703 refers to this topic.**
4. ~~Mounting system and clamp/retention device(s) shall have a means for bonding all accessible potentially conductive parts to ground. This requirement shall be satisfied by including the “ground” symbol ( ⊕ ) on the diagram required in Item 3, above.~~  
**MSMC Comments: Already covered more completely in UL2703, Section 9.1; also addressed in #3 above. Section 26.2 of UL 2703 has a similar requirement.**
5. ~~A label that identifies the manufacturer of the rack system shall be placed at a suitable location on the installed rack system. The Installation Instructions shall depict an example of the label and indicate where the label will generally be located. The label shall include the manufacturer's name, trademark, or other descriptive markings by which the organization responsible for the product can be identified.~~  
**LACDPW Comments: To be considered by STP and to be removed for now.**
6. Individual components of the racking system shall be identified by means of photos or other graphics in the Installation Instructions.  
**MSMC Comments: No substantive change**

~~7. Any mention or depiction of hardware that has been designated or identified as being for single use found in Installation Instructions shall include the words "single use".~~

**MSMC Comments:** Section 26.7 UL 2703 has this requirement currently / Removed because it has been addressed by the UL2703 bonding and grounding task group for further clarification (Multiple use definition and testing proposed language has been approved by task group and will be submitted to the STP); also applies to #8 below.

~~8. Clamping devices that incorporate a bonding feature such as, but not limited to, claws or sharp points shall be installed per the racking manufacturer's installation instructions. If the bonding /grounding device is removed for service it must be reinstalled per the installation manual with attention to whether reinstallation is location-dependent or location-independent.~~

**MSMC Comments:** See comments for #7 above

**LACDPW Comments:** To be considered by STP and to be removed for now.

~~9. Rack mounting systems and clamping devices shall be supplied with installation instructions describing the detailed methods of installation.~~

**MSMC Comments:** UL 2703, Section 26.1 already requires instructions for Listed systems; this is the verbatim first sentence of this section within the standard.

10. Installation Instructions shall include an index or table of contents.

**MSMC Comments:** Revised to specify index/table of contents only required if instructions exceed one page

11. Any device that is part of the fault current ground path must be listed and accompanied by installation instructions.

**MSMC Comments:** Reworded in a manner more closely aligned with UL 2703

12. The maximum allowed rail cantilever shall be indicated in the Installation Instructions by either a statement as to: a) the maximum cantilever allowable or b) where the maximum cantilever for a particular installation can be found (e.g. design tool output or other document) for verification by the inspector.

**MSMC Comments:** Streamlined the language; identifies structural documentation as an additional source.

~~13. Instruction to drill a hole shall include instruction to de-burr the hole.~~

**MSMC Comments:** Removed as this is a trade practice

14. There shall not be any structural part of a rack system that would be part of the bonding/grounding path such as, but not limited to, tilt legs, extensions, etc. found in Installation Instructions unless those parts have been evaluated and included within the Listing/Classification/Certification report as well as the CDR.

**MSMC Comments:** Reworded to align with UL 2703, Section 9.1 exception.