Solar Panel/Module Arrays Plans Submittal Checklist

All Systems (Roof, Ground and Wall Mounted, Photovoltaic (PV), Solar Thermal)

➢ Panel/Module product cut sheet showing manufacturer, listing agency and size of panels or modules being used. See sample cut sheet on pages 3-4.
➢ Product cut sheets on all associated hardware, electrical or other.
➢ Project Engineer’s letters* shall include the wind and snow load design criteria for the site on which the system(s) are being installed.
➢ Solar water-heating system construction notes shall include the requirement that they be installed in compliance with the adopted plumbing code.
➢ Photovoltaic system construction notes shall include the requirement that they be installed in compliance with the adopted electrical code.

Roof Mounted Systems
In addition to the requirements for all systems, provide the following:

➢ *Colorado Registered Engineer’s letter shall address the structure’s roof system’s ability to handle dead and uplift loads of the proposed system and specify alterations needed, if any. The engineer’s letter shall specify anchoring connections needed and detail drawings of the proper connections.

➢ Roof layout plans delineating the location of the solar panel/module array and all related equipment on the roof system, including but not limited to dedicated PV system meter, PV array DC disconnect switch, PV system utility AC disconnect switch, inverter. (Liquid mix/water solar panel systems also need roof layout and associated equipment on roof shown).

➢ Mounting system plans for panels/modules, along with any specifications including details of actual required attachment to roof system framing.
**Ground Mounted Systems:**
*In addition to the requirements for all systems, provide the following:*

- *Colorado Registered Engineer’s letter and detail sheets shall specify the foundation/piers system or ballast type anchoring system to be used for the proposed solar panels system(s).*

- Site plan delineating the location of the solar panels/modules array, solar collectors, and the location and labeling of all other mounted solar equipment.

**Wall Mounted Systems:**
*In addition to the requirements for all systems, provide the following:*

- *Colorado Registered Engineer’s letter shall analyse the structure’s wall system’s ability to handle dead and live loads of the proposed system and alterations needed, if any.*

- Engineer’s stamped detail sheets of the actual mounting requirements and required alterations to the structural framing for the installation.

**See the following code sections for further information:**

- Section R324 and Chapter 23 - 2018 International Residential Code
- Sections 1505.8 & .9, 1510.7, 1512.1, 1607.13.5, 3111 - 2018 International Building Code
- Chapter 14 – 2018 International Mechanical Code
- Section 1204.2 - 2018 International Fire Code
- 2017 National Electrical Code
Panel/Module Cut Sheet Example Only
(Front)

- 20.4% efficiency
  Ideal for roofs where space is at a premium or where future expansion might be needed.
- High performance
  Delivers excellent performance in real-world conditions, such as high temperatures, clouds, and low light.\(^2\)
- Proven value
  Designed for residential rooftops, E-Series panels deliver the features, value, and performance for any home.

**HIGH PERFORMANCE & EXCELLENT DURABILITY**

E20 - 327 PANEL

**HIGH EFFICIENCY**\(^5\)

Generate more energy per square meter
E-Series residential panels convert more sunlight to electricity producing 36% more power per panel,\(^1\) and 60% more energy per square meter over 25 years.\(^3\)\(^4\)

**HIGH ENERGY PRODUCTION**\(^7\)

Produce more energy per rated watt
High year one performance delivers 7.9% more energy per rated watt.\(^3\) This advantage increases over time, producing 20% more energy over the first 25 years to meet your needs.\(^4\)

**Maxeon Solar Cells: Fundamentally better.**
Engineered for performance, designed for durability.

**Engineered for peace of mind**
Designed to deliver consistent, trouble-free energy over a very long lifetime.\(^4\)\(^5\)

**Designed for durability**
The SunPower Maxeon Solar Cell is the only cell built on a solid copper foundation. Virtually impervious to the corrosion and cracking that degrade Conventional Panels.\(^4\)\(^5\)

\(^1\) #1 Ranked in Fraunhofer durability test.\(^10\)
**100% power maintained in Atlas 25**\(^*\) comprehensive PVDI Durability test.\(^11\)

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