

Rooftop solar PV rough-in inspection checklist

Rooftop solar PV rough-in is the last time the work is fully visible. Once the cover inspection passes and the walls, ceilings and slabs close, every defect left behind becomes a demolition bill. This checklist walks the rough-in in the order the work goes in, with the photo each item needs before it gets buried. Work is commonly verified against NEC (NFPA 70), the applicable building code, manufacturer's published instructions. Confirm the edition your authority having jurisdiction has adopted.

Who runs it: The install crew lead laying out the array, with the GC's superintendent or roofer signing off penetrations before they are hidden. When: After layout is chalked and attachments are set, before any modules land on the roof and while every penetration is still open to inspect and re-flash.

Attachment and flashing

- ☐ **Each penetration flashed and sealed to the roof system**
Flashing integrated into the roof covering so water sheds over it, sealant at the fastener per the mount maker's detail, no reverse laps. 3 photos required
- ☐ **Standoffs and mounts land on structural members**
Lag or structural screw engaging the rafter, truss or purlin, not just decking; layout matched to the framing spacing found on the roof. 2 photos required

Racking and layout

- ☐ **Rail or ballast layout matches the stamped plan**
Row spacing, cantilevers and mount count per the engineered layout; on ballasted systems, block count and placement per the zone loading. 2 photos required
- ☐ **Rails leveled and splices bonded**
Rails straight and coplanar so modules seat flat, splice kits installed where rails join, no gaps that break the bonding path. 1 photo required

Conduit rough

- ☐ **Conduit runs and roof transitions roughed in**
Conduit supported off the roof, transition point flashed, home-run pathway to the inverter and combiner established before modules block access. 2 photos required