READY TO INSPECT — FIELD CHECKLIST

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.

Layout and roof readiness

- [ ] Array layout chalked with the setbacks and pathways on the plan
  Chalk lines measured from the actual ridge, hips and roof edges and matching the fire-access setbacks and pathways shown on the permitted layout.
  1 photo required
- [ ] Racking, mounts and flashing kits match the approved submittal
  Box and part labels for rails, mounts, flashing and clamps checked against the approved submittal for maker and model before they go on the roof.
  1 photo required
- [ ] Roofing under the array footprint checked before it is covered
  Roof covering inside the array area walked for damage, soft spots or worn areas, and anything found reported to the roofer while it can still be reached.
  1 photo required
- [ ] Permit set and structural review on the roof with the crew
  Stamped layout, attachment detail and the engineer's roof review on hand, and the revision the crew is working from matches the permitted set.
  No photo required

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
- [ ] Every missed or abandoned pilot hole sealed before flashing
  Holes that missed the member or were moved accounted for and sealed per the mount maker's instructions before the flashing or base covers them.
  No photo 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

- [ ] Racking leaves roof drainage paths open
  Rails, ballast and wire runs laid so water still flows to drains, gutters and valleys; nothing dams a valley or sits in a drain sump.
  1 photo required

- [ ] Rail expansion breaks where the racking maker requires them
  On long rail runs, breaks or expansion splices at the spacing the racking instructions give, with modules not clamped across the gap.
  No photo required

- [ ] Mount and rail bolts torqued and torque-striped
  Mount-to-rail and base bolts run down to the racking maker's value with a calibrated tool and striped so any hardware that loosens later shows.
  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

- [ ] Inverter and disconnect locations set where the plan shows
  Wall or pad space for the inverter, disconnects and meter laid out per the plan, with clear working space in front and nothing stored in the way.
  1 photo required

- [ ] AHJ rough or structural inspection called before modules land
  Attachment or rough inspection requested and its result recorded before modules cover the mounts; any correction notice noted for the crew.
  No photo required