

Solar Roofing System Specifications

Commercial

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Ballasted & Rack Mounted Solar Installations

Years*	TPO New/Tear Off	Spec #
20	FA 45 mil	T-FA-N-I-45 T-FA-N-I-45FB
25	FA 60 mil FA Extreme 50 mil	T-FA-N-I-60 T-FA-N-I-60FB T-FA-N-I-50EX T-FA-N-I-50EXFB
30	FA 80 mil FA Extreme 60 & 70 mil	T-FA-N-I-80 T-FA-N-I-80FB T-FA-N-I-60EX T-FA-N-I-60EXFB T-FA-N-I-70EX T-FA-N-I-70EXFB
35	FA Extreme 80 mil	T-FA-N-I-80EX T-FA-N-I-80EXFB
Years*	TPO Re-cover	Spec #
20	FA 45 mil	T-FA-N-I-45 T-FA-N-I-45FB

*Minimum guarantee length available

Direct Attached Solar Installations

Years*	TPO New/Tear Off	Spec #
25	FA Extreme 50 mil	T-FA-N-I-50EX T-FA-N-I-50EXFB
30	FA Extreme 60 & 70 mil	T-FA-N-I-60EX T-FA-N-I-60EXFB T-FA-N-I-70EX T-FA-N-I-70EXFB
35	FA Extreme 80 mil	T-FA-N-I-80EX T-FA-N-I-80EXFB
Years*	TPO Re-cover	Spec #
20	FA Extreme 50 mil	T-FA-N-I-50EX T-FA-N-I-50EXFB

*Minimum guarantee length available

Solar Guarantee Requirements**

- Minimum 2 layers of insulation with a cover board as the top layer.
 - Top layer to be adhered.
 - Cover board (3/8" or 1/2" min. thickness) must be:
 - HD Fiberboard
 - DensDeck®
 - DensDeck® Prime™
 - DensDeck® DuraGuard™
 - SECUROCK®
 - HD Polyiso
- Solar pre- and post-inspection.
- Follow standard industry roofing practices.
- Adhered EverGuard® roofing systems only.
- Use EverGuard® TPO accessories with EverGuard® TPO systems only.
- Slip-sheets of like materials are to be heat welded or adhered directly to the roof under the contact areas of the ballasted PV system.
- Primers & adhesives for direct attached solar installations are to be compatible with GAF membrane.
- All solar PV installations on an existing GAF roofing system should follow the 6-Step Solar Guarantee Issuance Process.
- Consult GAF Guarantee Services for solar installations on roofing systems beyond what is mentioned here.

** GAF's guarantee does not cover damage resulting from any third-party products or systems which are attached to GAF's EverGuard® TPO or Extreme™ TPO. See guarantee for complete coverage and restriction.

Note:

Building-integrated photovoltaics (BIPV) systems are typically mounted directly to a low-slope roofing membrane. Membrane surface temperatures can be as high as 190°F in close proximity to solar panels mounted directly to a reflective (white) roofing membrane. Standard TPO formulations may fail in accelerated heat-aging studies in as little as 40 days under these conditions. Without enhanced UV and heat-protection packages, thermoplastic membranes may be subject to premature failures.