

Product Description: QC Manufacturing Smart Roof and Solar Roof Attic Vents with Fans



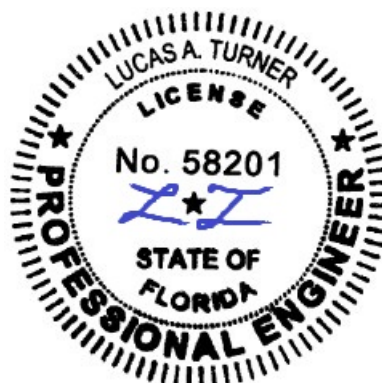
Manufacturer: QC Manufacturing, Inc., 26040 Ynez Rd, Temecula, CA 92591

Statement of Compliance: This report evaluates the above-listed product per the requirements of FAC Product Approval Rule Chapter 61G20-3.005 (2) (b). This product complies with the requirements of the 8th Edition (2023) Florida Building Code for use outside the High Velocity Hurricane Zone. The product testing standards performed are outlined below.

Technical Documentation:

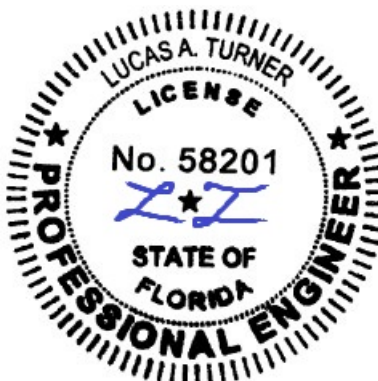
- 1) This report, prepared by Lucas A. Turner, P.E., at 2428 Old Natchez Trc. Trl., Camden, TN
- 2) Test Reports R9731.01-109-18-r0 and R9741.01-109-18-r0, from Intertek York, PA, with testing performed: ASTM E 330-14, AAMA 501.1-15 (wind only, 80mph for 60s)
- 3) Manufacturer's full product descriptions and installation instructions, online at: <https://quietcoolsystems.com/attic-fan/>

Installation: Units must be installed through the Primary Flashing at the corners and at midpoints of each side of Flashing, using a quantity of eight #10 min. hex head self-drilling screws with weather seal washer heads, corrosion resistant steel, 1-1/2" length embedded through roof deck into 2x spruce-pine-fir min. wood framing, or of sufficient length to provide a min. three threads beyond steel substrate wall thickness. Maintain 3/4" min. edge distance on Flashing. ASD (Allowable Stress Design) Design Pressure Ratings (derived from E 330 tested windloads utilizing 2:1 margin of safety in compliance with FBC sect. 1504.9) are as follows:



Fan Models	Primary Flashing	Min. Substrate Types	Design Pressure Rating (psf)
AFR SLR-25 AFR SLR-25-AU AFR SLR SMT-25 AFR SLR SMT-25-AU	24"x24" 20 gauge	Spruce-Pine-Fir Wood (G=0.42 min.), 16 gauge min. (0.060") 33ksi Fy Steel, 18 gauge (0.048") min. 36ksi Fy Steel, or 20 gauge (0.036") min. 50ksi Fy Steel	-258
AFR SLR-40 AFR SLR-65 AFR SLR-40-AU AFR SLR-65-AU AFR SLR SMT-40 AFR SLR SMT-65 AFR SLR SMT-40-AU AFR SLR SMT-65-AU	24"x24" 20 gauge	Spruce-Pine-Fir Wood (G=0.42 min.), 16 gauge min. (0.060") 33ksi Fy Steel, 18 gauge (0.048") min. 36ksi Fy Steel, or 20 gauge (0.036") min. 50ksi Fy Steel	-260
AFR SLR SMT-20W AFR SLR SMT-25W AFR SLR SMT-20W-AU AFR SLR SMT-25W-AU	26"x26" 22 gauge	Spruce-Pine-Fir Wood (G=0.42 min.), 18 gauge (0.060") min. 33ksi Fy Steel, Or 20 gauge (0.048") min. 36ksi Fy Steel	-164
RM WHF-2.0 AFR PRO-1.3 AFR PRO-1.5 AFR SMT PRO-1.3 AFR SMT PRO-1.5 AFR SMT PRO-1.7-AU AFR SMT PRO-2.0 AFR SMT ES-2.0 AFR SLR SMT-40W AFR SLR SMT-50W AFR SLR SMT-65W AFR SLR SMT-40W-AU AFR SLR SMT-50W-AU AFR SLR SMT-65W-AU	26"x26" 22 gauge	Spruce-Pine-Fir Wood (G=0.42 min.), 18 gauge (0.060") min. 33ksi Fy Steel, Or 20 gauge (0.048") min. 36ksi Fy Steel	-165

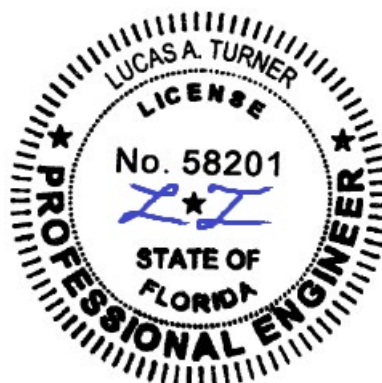
Primary Flashing and Hoods are EDDS G90 steel. Models noted above with 20 gauge Primary Flashing utilize 20 gauge 28"x28" Hood and 20 gauge EDDS G90 steel 14-3/4" diam. Cylinder, with 14" plastic fan blades and optional control methods. Models noted above with 22 gauge Primary Flashing utilize 22 gauge 21" x 21" Hood and 20 gauge aluminum 16-3/4" diam. Cylinder with 16" aluminum fan blades, with various motor and control methods. Solar panel option was tested at 20"x20" size.



Limitations of Use: This product:

- Requires construction as indicated above
- Is non-impact rated
- May not be used in the High Velocity Hurricane Zone
- Water performance of this product and integration of this product with roof coverings and weather protection are beyond the scope of this Evaluation.
- Fire classification is not within the scope of this Evaluation.

Certification of Independence: I do not have, nor do I intend to acquire, nor will I acquire, a financial interest in QC Manufacturing, or in any company manufacturing or distributing products for which this report is being issued. I do not have, nor do I intend to acquire, nor will I acquire, a financial interest in any other entity involved in the testing or approval process of this product.



7/7/2025
Lucas A. Turner, P.E.
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