

# Technical Bulletin – Radiant Barriers & Insulations

## ABOUT THIS BULLETIN

- This bulletin is about the use of Radiant Barriers and Attic Insulation with F-WAVE® REVIA® Roofing Shingles. This includes both F-WAVE® REVIA® Roofing Shingles and F-WAVE® REVIA® **XTM** Roofing Shingles.

## RADIANT BARRIERS

- F-WAVE® REVIA® Roofing Shingles are applied over an underlayment. Select and install underlayment adhering to local building codes, manufacturers' published installation requirements, and F-WAVE's requirements as specified in the F-WAVE installation instructions.
- F-WAVE® REVIA® **XTM** Shingles provide a small air gap between the roof deck and the shingles. A radiant barrier may provide a small reduction in heat transfer into the attic.
- F-WAVE allows radiant barrier type products as underlayment for F-WAVE® REVIA® **XTM** Roofing Shingles. Radiant barriers consist of highly reflective material that reflects 96% or more of radiant heat rather than absorbing it. Radiant barriers must be certified for use, installed with adequate ventilation, and installed according to F-WAVE installation instructions. Radiant barriers typically include an aluminum layer which acts as a vapor barrier, and can prevent adequate roof deck ventilation. **If a radiant barrier type product is used, it is the installers' responsibility to ensure the roof design and installation provides for proper ventilation to help avoid high humidity, moisture build-up, and condensation.** Damages caused by the use of a radiant barrier type product are not manufacturing defects, and are not covered by the F-WAVE WeatherForce® Advantage Standard Product Limited Warranty.

## ATTIC SPACE INSULATION

- F-WAVE does not require any particular insulation type for use within the attic. Several types of insulation are widely recognized and used such as fiberglass, cellulose, and expanding foams such as Icynene. Other products include radiant barriers and reflective materials.
- Irrespective of the insulation used, proper ventilation must be provided to dissipate heat and humidity build-up under the rooftop. F-WAVE requires that adequate continuous ventilation space, free of obstructions, is provided between the top of the insulating material and the underside of a nailable deck. F-WAVE recommends a gap size of at least **1" (25mm)**.
- It is important that insulation is approved for use by local building code jurisdictions, and does not interfere with the installation of F-WAVE® REVIA® Roofing Shingles. **Do not install F-WAVE® REVIA® Roofing Shingles directly to insulation!**

## NOTES

- Installers should consult the most up to date F-WAVE Installation Manuals to determine all recommended installation requirements. The most recent versions of the installation instructions are available on the F-WAVE website at [fwave roofing.com/resources](http://fwave roofing.com/resources).
- Additional information may be found in the NRCA Roofing Manual: Steep-Slope Roof Systems.

*Installers should consult the most recent F-WAVE Installation Manuals at [fwave roofing.com/resources](http://fwave roofing.com/resources) to determine all recommended installation requirements. For additional support or questions, visit [fwave roofing.com](http://fwave roofing.com) or call F-WAVE Technical Support at **1-888-GO-FWAVE** (1-888-463-9283). All product names, logos, and brands are property of Fwave, LLC or their respective owners. All company, product and service names used are for identification purposes only. Use of these names, logos, and brands does not imply endorsement.*