

TO: Atlanta Sales, Commercial Field Sales, Regional Managers, Plant Managers and Account Executives

NUMBER TB-6

FROM: Director Technical Services, Commercial Products Division

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SUBJECT: Radiant Barriers - Shingle Roof Assemblies

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*SUPERSEDES EXISTING DOCUMENTS

Radiant Barriers are defined as materials that have an emittance value of 0.05 or less, when tested per the ASTM C1371 or ASTM E408 testing standard.

ACCEPTABLE RADIANT BARRIER MATERIAL TYPES FOR USE WITH ATLAS ASPHALT SHINGLES ARE:

- Radiant Barrier sheet materials which are installed over the rafters or trusses and draped between to allow flow through ventilation from soffit to ridge within each cavity.
- Radiant Barrier sheet type materials may be attached to the bottom of the rafter or truss chords, leaving a path of ventilation from soffit to ridge within each cavity.
- OSB, or plywood, APA/TECO rated panels having a perforated radiant barrier material adhered to the bottom as installed and rated at 2 perms or greater vapor permeability.

UN-ACCEPTABLE “RADIANT BARRIER” TYPES WHICH WOULD VOID THE ATLAS LIMITED SHINGLE WARRANTY:

- Liquid applied, radiant Barriers installed to the bottom of the decking material, unless proven to be highly vapor permeable (>2 perms test results). If these liquid applied materials are not highly vapor permeable, they have potential to contribute to moisture retention in the decking and framing members. Only water based, highly vapor permeable coating applications will be recognized, as solvent based liquids have potential for VOC’s to harm the asphalt roofing products on top of the deck.
- Any Radiant Barrier installed onto the top surface of the decking and serving as an underlayment to the shingles. A true Radiant Barrier material must have an open air space adjacent to the reflective surface to perform as a radiant barrier.
- Non-Perforated, Radiant Barrier deck panels are not approved.

WARRANTY PROVISION COMPLIANCES:

- In order for the Atlas Shingle Limited Warranty to remain in effect, full compliance to the minimum stated ventilation requirements as well as the entire installation requirements as stated on the product packaging, must be provided. Unrestricted, flow-through ventilation from soffit area to the ridge area must be incorporated into the roof assembly to maintain the warranty provisions. This flow-through ventilation must occur directly below the decking and must be able to support the minimum roof ventilation, per local code requirements, or, the standard Atlas ventilation requirements as printed on the product packaging, whichever is greater.
- Atlas Roofing Corporation shall not have liability for:
 1. Damage to Atlas shingles caused by movement, distortion, settlement, deterioration, cracking or failure of the roof deck or framing members of the roof assembly.
 2. Failure of, damage to or defects attributable to radiant barrier type materials used in the deck assembly, such as excessive blistering, cracking and/or excessive granule loss.
 3. Premature failure of, or damage to, Atlas asphalt shingles not applied in strict compliance with the installation instructions stated on the packaging or as dictated by local building codes.