

**CertainTeed Corporation**

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**CertainTeed** 

**RESIDENTIAL ROOFING  
TECHNICAL BULLETIN**

**No. R-202**

**Date:** 8/28/2001

**Supersedes:** None

***“RADIANT BARRIERS”***

CertainTeed Corporation’s standard Limited Asphalt Shingle Warranty (the “Limited Warranty”) is in force for its fiber glass shingle products when the shingles are applied over an approved deck which is part of a roof system containing a “**radiant barrier.**” In order to be eligible for coverage by the Limited Warranty, the shingles *must* be applied according to the instructions printed on the shingle wrappers and CertainTeed’s installation manual, and the underside of the deck *must* be properly vented for the selected roof system and radiant barrier application. Refer to CertainTeed’s current Limited Warranty and CertainTeed’s “Shingle Applicator’s Manual” for further details.

A radiant barrier is defined as any reflective material that has an emittance of 0.05 or less, when tested in accordance with ASTM C-1371 or ASTM E-408. Radiant barriers come in various forms, including foils laminated directly to the underside of deck sheathing (plywood or OSB) and thin sheets of material with reflective foil laminated to it. The deck-sheathing radiant barriers are generally applied with the reflective surface facing down. The thin-sheeted reflective foil radiant barriers are typically installed by either draping them over the roof rafters prior to applying the roof sheathing or by fastening the sheets to the underside of the roof rafters. In any case, the effective performance of the radiant barrier requires an air space between the reflective side of the radiant barrier and any other material.

In order for CertainTeed’s Limited Warranty to be in effect, the underside of the deck must be properly ventilated. In the case of the foil laminated directly to the deck material, the underside of the deck (below the foil surface) must be ventilated according to building code requirements (either minimum 1/150 or minimum 1/300). When loose radiant barrier sheets are used, the space formed in each roof rafter cavity, above the radiant barrier and below the roof deck, must have through-ventilation from eaves to ridge (minimum 9-sq. in. net free ventilation area at both eaves/soffit and ridge).

CertainTeed shall not have any liability or responsibility for: a) Defects or damage caused by materials used as a roofing base over which the shingles are applied; b) Damage to the shingles caused by movement, settlement, distortion, deterioration, failure, or cracking of the roof deck; c) Premature deterioration of the shingles caused by excessive temperatures resulting from inadequate or improper ventilation; or d) Defects or failure caused by application of our shingles not in strict adherence with CertainTeed’s written installation instructions and/or local building codes.

Roofing Systems Technical Service