

To Whom It May Concern:

After exposure to the outside elements for a period of time, some asphalt-shingled roofs may exhibit localized darkening of the shingles and/or vertical dark streaks. This condition can be caused by a build-up of an algae organism called *gleocapsa magma* (blue-green algae). To resist this natural phenomenon, CertainTeed manufactures algae-resistant shingles, presently called "AR" or "StreakFighter", which incorporate a copper-coated granule. The type of algae that CertainTeed AR shingles resist is an airborne organism that produces a blue-green or dark discoloration and/or vertical streaking on the roof. This algae does not pose a threat to the shingles' durability or longevity; however, it can be unsightly.

In the event that CertainTeed's AR shingles do not control the growth of this type of algae within the algae-resistant warranty period, CertainTeed will pay the reasonable cost of having the roof cleaned. *Attached is a copy of instructions for algae/fungus cleaning that describes the recommended industry procedure as developed by ARMA (Asphalt Roofing Manufacturers Association) and a list of materials that may be used to clean the shingles which does not affect the terms of the Asphalt Shingle Limited Warranty.*

Moss, however, is a mass of vegetation that often grows in shady, moist, and cool temperature conditions. During periods of warmer weather, moss often becomes dormant. Unlike trees, plants and grasses, moss has no roots. Moss can attach itself to a variety of surfaces, including the many surfaces of the shingle granules and roof debris. Once established on the shingles, moss can be difficult to remove without dislodging the granules that protect the asphalt coating.

Lichens are a combination of an algae and fungus plant-like form that grows on stationary objects, but do not feed off them. Like moss, lichens are very difficult to remove from asphalt shingles. Some commercially-available solutions may be effective in controlling these organisms. Due to the potential for a solvent to attack asphalt, only inorganic solutions should be considered for controlling moss or lichens. To discourage the growth of algae, moss and lichen, roofs should be kept clean of debris. Overhanging trees should be trimmed back to promote exposure to direct sunlight.

The *Asphalt Shingle Limited Warranty* for CertainTeed's "AR" shingles provides compensation for the cleaning of *gleocapsa magma* (blue-green algae) that is adversely affecting the overall appearance of the roof. Please see the Limited Warranty for details on warranty coverage for blue-green algae. Please note that the Limited Warranty does not provide coverage for moss, lichens or other forms of algae.

Sincerely,

Technical Services Department
Roofing Products Group

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CertainTeed Roofing