

# TECHNICAL BULLETIN

## HAIL DAMAGE

***SUPERSEDES PREVIOUS BULLETINS***

### Issue Description:

Hailstorms can cause serious damage to a roof. Hail damage is marked by indentations, fractures, or multiple circular areas on the shingle where granules are missing. In some severe cases, hail impact can crack the shingle which weakens the water shedding capability of the roof.

The impact of the hailstone can break or weaken the bond between the granules and the asphalt. When granules are loose or missing, the roof has been compromised. Prolonged exposure to the sun's ultraviolet radiation may then accelerate the oxidation of the asphalt, which may lead to the premature aging of the shingle.

The effects of hail impact on asphalt shingles may not be immediately apparent. Sometimes it may take several months for circular or slightly elliptical areas to appear as granules become dislodged. When the damage to the surface of the shingle is not visible, look for indentations on vents, gutters, siding, air conditioning units and /or heat pumps, electric meter boxes, or other metal objects as telltale signs of hail impact.

### Recommendations

In the aftermath of a hailstorm, it's important to get your roof checked for damage by a professional roofing contractor that you trust to safely and thoroughly inspect your roof. Hail falls in random patterns and therefore may only damage a few houses within a neighborhood.

If you live in an area that is prone to hailstorms, we recommend installing impact-resistant shingles that are designed to withstand greater levels of impact. Impact-resistant shingles are tested and classified using the Underwriters Laboratory 2218 (UL 2218) steel ball test where a steel ball is dropped from a specified height onto an installed roofing shingle and inspected for any breaks or cracks. The highest possible rating is Class 4. To receive a Class 4 rating, a roofing shingle must withstand having a 2-inch steel ball dropped multiple times from a height of 20 feet. Using Class 4 impact resistant shingles helps to prevent or reduce the amount of damage from hail or other debris. Owens Corning offers Duration FLEX®, Duration Storm®, and WeatherGuard® HP shingles which meet Class 4 of the UL 2218 impact resistance standard. Damage caused by hail is not covered by Owens Corning® Standard Product Limited Warranty\* or extended protection warranties.

*\* See actual warranty for complete details, limitations and requirements.*

**Please contact 419-248-6557 for additional information.**  
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