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Technical Advisory Bulletin

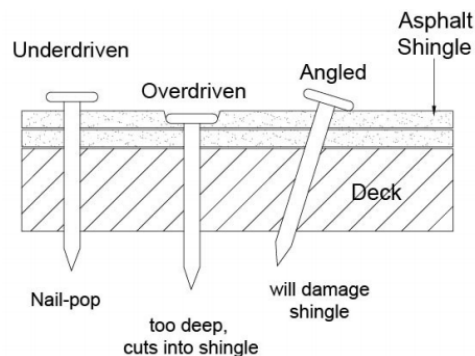
To: GAF Residential Sales, GAF Contractors, Field Services, AIS, CARE
From: Technical Services
No: TAB-R-117

Improperly Driven Nails

What Are Improperly Driven Nails?

Nails that are...

- Beneath the surface (granules) of the shingle (**Over-driven Nails**)
- Left above the surface of the shingle (**Under-driven Nails**)
- Driven in at an angle, cutting into the shingle (**Angled Nails**)



Over-driven Nails...

Over-driven nails...

- Can drive the nails right through the shingle
- May barely hold the shingle to the roof deck, which will allow them to slide off of the roof deck
- Can be caused when the nail gun is set to the wrong pressure

Under-driven Nails...

Under-driven nails...

- Lead to nail "pop" when the deck moves (expands and contracts)
- Can lift the shingle away from the self-sealant
- Pre-disposes "lifted" shingles to blow off in a wind event
- Can create holes in the shingles above if the nail pops through it

Angled Nails...

Angled or crooked nails are not flush to the surface of the shingle and ...

- Will cut thru shingles
- Are subject to deck movement
- Have inadequate anchorage

What Is The Remedy?

To repair improperly driven nails at time of installation...

- Remove the nail
- Properly install a new nail
- Repair hole with plastic roof cement

To repair improperly driven nails after installation...

- Carefully lift the overlaying shingle and remove improperly driven nail
- Install a new nail in the proper location
- Install roof cement over hole and to ensure proper sealing of the shingle above

Check shingle application instructions...

- To determine the number and location of the dabs of cement to be used for hand sealing. All GAF shingle application instructions have hand sealing procedures listed
- Follow the instructions for the particular product to be sealed

Questions?

GAF Technical Services Can Assist You... with these and other questions you may have regarding your new roof installation. Technical Support Services can be contacted at 800-766-3411. The GAF website is a great resource for just about any question you may have or for additional information you may require. Please visit www.gaf.com to find the latest information on our products and their installation.

Important: This document supersedes any prior GAF Technical Advisory Bulletins on this topic. Please always check www.gaf.com to make sure you have the most up to date information.