



Drip Edge Fastening Requirements

Technical Bulletin

FH 2023-02

First Release:

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Prepared by:

FORTIFIED Technical Team

Applicable Standards:

FORTIFIED Home™–Hurricane
FORTIFIED Home™–High Wind

Applicable Designation Level:



Fastener Type Requirements for Asphalt Shingles and Drip Edge

Introduction

Fastener type is critical to proper installation of all components of a FORTIFIED roof. Drip edge, as required per Section 4.5 of the 2020 FORTIFIED Home™ Standard, performs two critical functions: it holds the underlayment in place and provides an anchor point for the asphalt shingles at the edge of the roof. Therefore, it is important that drip edge is adequately fastened with approved fasteners.

Some local jurisdictions amend the building code to remove R905.2.8.5 Drip edge (see below). As a result, we have seen a variety of different fasteners used to install drip edge that do not comply with the FORTIFIED standard.

Recent examples include staples, which are never permitted by the FORTIFIED standard, and button cap nails, which can reduce adhesion of a starter strip and allow for water intrusion when used in this location.

This technical bulletin clarifies the type of fasteners required by FORTIFIED to mechanically fasten drip edge to the roof deck of asphalt shingle roofs.

Installation Requirements

Drip edge installation requirements are specified in section 4.5 of the 2020 FORTIFIED Home Standard and in FORTIFIED Standard Details F-DE-1: Hurricane – Drip Edge Installation Over Underlayment or F-DE-3: High Wind – Drip Edge Installation Over Underlayment.

Fastener Type Requirements

Fastener type for asphalt shingles and drip edge flashing shall follow the guidance in IRC 2021 section R905.2.5.





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The 2021 International Residential Code requires fasteners as follows:

R905.2.8.5 Drip edge. A drip edge shall be provided at eaves and rake edges of shingle roofs. Adjacent segments of drip edge shall be overlapped not less than 2 inches (51 mm). Drip edges shall extend not less than 1/4 inch (6.4 mm) below the roof sheathing and extend up back onto the roof deck not less than 2 inches (51 mm). Drip edges shall be mechanically fastened to the roof deck at not more than 12 inches (305 mm) o.c. with **fasteners as specified in Section R905.2.5.** Underlayment shall be installed over the drip edge along eaves and under the drip edge along rake edges.

R905.2.5 Fasteners. Fasteners for asphalt shingles shall be galvanized steel, stainless steel, aluminum or copper roofing nails, **minimum 12-gage [0.105 inch (3 mm)] shank with a minimum 3/8-inch-diameter (9.5 mm) head,** complying with ASTM F1667, of a length to penetrate through the roofing materials and not less than 3/4 inch (19.1 mm) into the roof sheathing. Where the roof sheathing is less than 3/4 inch (19.1 mm) thick, the fasteners shall penetrate through the sheathing.

Compliance Verification Requirements

Four photos from different areas showing drip edge installation and nailing pattern are required.

NOTE: If photos demonstrate that fasteners used to install drip edge do not comply with FORTIFIED requirements outlined above, the evaluation may be returned undesignated.

Additional References

For additional guidance, refer to the following:

- [FORTIFIED Home Documentation Requirements](#)
- [FORTIFIED Standard Detail Set:](#)
 - [F-DE-1 Hurricane - Drip edge installation over underlayment](#)
 - [F-DE-3 - High Wind - Drip edge installation over underlayment](#)
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