



Technical Bulletin FC/FMF 2023-03

First Release:
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Applicable Standards:
FORTIFIED Commercial™–Hurricane
FORTIFIED Commercial™ - High Wind
FORTIFIED Multifamily™–Hurricane
FORTIFIED Multifamily™ - High Wind

Applicable Designation Level:



FORTIFIED Requirements for Cement and Clay Hip and Ridge Tile Installed Over Asphalt Shingle Roof Cover

Introduction

In the Gulf Coast region (predominantly in Louisiana), cement or clay hip and ridge tile accessory pieces are commonly installed on top of asphalt shingle roofs. **This situation may negatively affect a building’s ability to receive a FORTIFIED Commercial™ or FORTIFIED Multifamily™ designation.**

Eligibility

To qualify for a FORTIFIED Roof™ – New Roof designation, all roof cover components must have appropriate testing to demonstrate they are properly wind-rated and installed. Tile is a different roofing system than asphalt shingles and has different required testing and wind-rating methods.

Currently, IBHS is not aware of any testing of tile and asphalt shingles installed together as an assembly. Therefore, unless such testing is provided, tiles and asphalt shingles must have separate test reports and separate corresponding installations.

For any buildings pursuing FORTIFIED designation (existing buildings being re-roofed or new construction) that have asphalt shingle roofs with tile hip and ridge pieces, all parties involved in roofing design and installation must **provide the following information to the FORTIFIED Evaluator and/or IBHS, or a FORTIFIED designation will not be issued:**

- **From the cement/clay tile hip and ridge manufacturer:** Product testing approval from the manufacturer of the cement/clay tile hip and ridge accessory pieces specifying design pressure ratings or other wind rating and the installation methods required to meet design pressure or wind ratings. Refer to Section 3.1.3.6 of the 2020 FORTIFIED Commercial & Multifamily Standard for acceptable testing reports.
- **From a professional engineer:** Signed and sealed letter documenting the code-compliant Component and Cladding (C&C) site-design wind pressures or other wind rating that the hip and ridge tiles must resist. The letter must also include assessment of the product testing approval and if the hip and ridge tiles, as installed, meet the required wind pressures or other wind rating.





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Installation Requirements

Follow the manufacturer’s installation instructions, including any associated approvals required to meet or exceed the site-specific design pressures.

Compliance Verification Requirements

- Four photos from different areas during installation of hip and/or ridge components.
- Four photos from different areas showing finished hip and/or ridge installation.
- Product testing approval from the manufacturer of the cement/clay tile hip and ridge tile as described above.
- Signed and sealed letter from a Professional Engineer as described above.
- Roofing Compliance forms for both asphalt shingle roof cover and tile roof cover.

Additional References

For additional guidance, refer to the following:

- [FRSA & TRI Alliance Florida High Wind Concrete & Clay Tile Installation Manual, 6th Edition](#)
- [FORTIFIED Legal Disclaimer](#)

