FORTIFIED Home™ Standard Details Table of Contents – High Wind Only

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FORTIFIED Home™ Standard Details Naming Convention

FORTIFIED Home™ Standard Detail numbers are comprised of three alphanumeric identifications to provide general categorization:

1. **First alphabetic identification** – FORTIFIED Detail:
   - F = FORTIFIED

2. **Second alphabetic identification** – Secondary Category
   - G = General Information
   - RS = Roof Sheathing
   - SRD = Sealed Roof Deck
   - DE = Drip Edge
   - RC = Roof Cover
   - RR = Re-Roof
   - GS = Gable Shuttering

3. **Numeric identification** – chronological order detail was completed

   *Example: F-RS-1*

   **Fortified Detail → Roof Sheathing Detail → First Detail in this category**
**Requirements**

**Corrosion Protection**

- Sheet metal connectors, anchors, and hangars shall meet the requirements of ASTM A693, 690.
- Corrosion-resistant nails and screws shall meet the requirements of ASTM A617, Class 2, or equivalent corrosion-resistant material.
- Steel shall meet the requirements of ASTM A572, Grade 50.
- Hot-dip galvanized steel shall meet the requirements of ASTM A525, Class D, for nails and screws.
- Examples of exposed areas include areas that are under roof overhangs, decks, and covered walkways, or in any location.

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**Structures more than 3,000 ft from saltwater**

- F-700 full of saltwater
- F-700 full of saltwater
- F-700 full of saltwater
- F-700 full of saltwater

**Structures within 300 ft of saltwater**

- F-700 full of saltwater
- F-700 full of saltwater
- F-700 full of saltwater
- F-700 full of saltwater

**For more information, contact: (201) 905-5700.**
PROVISIONS USE WHICHEVER IS MORE STRINGENT.

STRUCTURAL DESIGN WHICH IS BY OTHERS. IN CASE OF A CONFLICT BETWEEN
STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS IN ADDITION TO THE
FORTIFIED HOME STANDARDS ARE TO BE APPLIED IN CONJUNCTION WITH FEDERAL.

REFER TO APPLICABLE FORTIFIED HOME STANDARDS FOR ADDITIONAL INFORMATION.

GENERAL NOTES:

HIP ROOF

CABLE ROOF

CABLE ROOF

FLAT ROOF

ROOFS - ZONE 3

CONNER ZONES

ROOFS - ZONE 2 / WALLS - ZONE 5

END ZONES

INTERIOR ZONES
NOTE: NO CLIPPED HEAD NAILS SHALL BE ALLOWED. REFER TO FIGURE 1.

Table E-5: Maximum Allowed Nailing Spacing along Panel Edges

- **Structural Panels and Intermediate Framing for Sheathing Attachment to Roof Deck Wood**
  - Notes refer to General Note #6 by Sheathing (Plywood or OSB) by Structural Wood Panel.
  - Spacing Requirements.
  - Member Spacing Requirements.

**GENERAL NOTES:**

- 1. Applicable for Roof Pitch 2:12 or Greater.
- 2. Applicable for Shingle or Metal Roof Covers.
- 3. For Roof Pitch 2:12 or Greater.
- 5. For Roof Pitch 7:12 or Greater.
- 6. For Roof Pitch 12:12 or Greater.
Deck from within using spray foam
Roof deck attachment and sealed roof

NOTE #2 for requirements
Refer to general
Existing structural wood
Adhesives
Requirements for spray
Valleys refer to minimum
valley intersection between
frame members and at all
points of contact between
adhesive and foam
Spray adhesive closed cell
1.5 to 3 fillet of 2 part

HURRICANE
MEET THE MINIMUM DESIGN AND INSTALLATION REQUIREMENT SPECIFIED BY THE MANUFACTURER TO

STANDARD
PROVISIONS, USE WHICHEVER IS MORE
IN CASE OF A CONFLICT BETWEEN
STRUCTURAL DESIGN WHICH IS SUBMITTED
AND SPECIFICATIONS IN ADDITION TO THE
STAINS AND LOCAL CODES PRACTICES
APPLIED IN CONSTRUCTION WITH PELICAN
FORCED HOME STANDARDS ARE TO BE
MAXIMUM IS RECOMMENDED WHEN
ADHERED TO FRAME MEMBERS @ 24" OC
MAX

GENERAL NOTES:
1. Minimum requirements for spray adhesives
2. Product must be tested and evaluated in accordance with either ASTM E330, Standard Test
3. Application in accordance with manufacturer's maintenance and installation guidelines
4. Adhesive must be installed by a properly trained and qualified applicator in accordance with company letter and adhesive
5. Exterior perimeter should also state that the installation meets the manufacturer's
certified documents for an allowable design uplift pressure of at least 10 psi (100 psi minimum uplift pressure). The manufacturer's
documented performance is applicable to the certified applicator to be included with final documentation

HIGH WIND
5.5 psi

DECK FROM WITHIN ATTIC

IMMEDIATELY AFTER COMPLETION OF THE SHEATHING. 
COMPLETED TO PROTECT AGAINST IMPACT AND NON-IMPACT BUILDING ENVELOPE COMPOSITES USING UNIFORM STAIRS. 

METRIC FOR STRUCTURAL PERFORMANCE TESTS. DOORS, WINDOWS, AND CHI-RAM WALLS

HIGH WIND - HURRICANE (10%)
Refer to F-1 for drip edge installation.

Fastened adequately to keep in place until roof covering is applied.

- Roof edges over entire roof
- Stagger and install end laps as specified.
- Apply self-adhering polymer-modified asphalt shingles over entire roof.
- Membrane (showing bond break for sealed roof deck - self-adhered.
- Step slope concrete and clay tile roof covers.
- Asphalt shingles - single layer.
- Batten membrane with bond break for asphalt shingles.

General Notes:
- Refer to product approval to verify required wind pressures are met if applicable.
- Refer to applicable Fortified Home Standards for additional information.

Instructions Specification:
- Refer to manufacturer's specification and installation instructions.
- Refer to manufacturer for required overlap and follow manufacturer's specifications.
- Refer to general notes #3 and #4.

Applicable Standards:
- Fortified Home - High Wind (107)
- Fortified Home - Hurricane (110)

Date: 11/18/2010

Drawing #: F-SPD-4
CONCRETE AND CLAY TILE ROOF COVERS
SHEET AND UNDER CAP SHEET FOR
Drip Edge Installation Over Anchor

Installation of Drip Edge
Standard Details: P-DE-1, P-DE-2, P-DE-3, P-DE-4
Primed with ASTM D-4 Primer Applied to Perimeter of the Membrane/Manifold
Surface of the Drip Edge is Clean, Free of All
Installation Over Underlayment. Make Sure the Top
Caulk Bonds All Edges And Cable. Rack Edges
Metal Drip Edge (Code Compliant, Minimum
Standard Detail: P-SD-5
According With ASTM D-4 Primer Applied To Perimeter
Anchor Sheet Installed In

AT RAKES, Drip Edge Installed In

Use Whichever Is More Stringent.
Case of A Conflict Between Provisions.
Structural Design Which Is By Others
Regulations In Addition To The
State And Local Codes, Ordinances And
Applies In Conjunction With Federal
FORFIELD HOME - HURRICANE (2019)
Applicable for Additional Information.
Refer To FORFIELD HOME STANDARDS.
Below sheathing:
Drip edge flange:
MIN 1/2"
2"

Min
1/2"

MIN 1/2"
2"

12 O.C. MAX
7/8" MIN OVERLAP
(2) NAILS @

OVERLAPS

Sealing the drip edge refer to General Note #3.

Manufacutured transmit WH 15-1/2"x4" plane. For
and if required by the installer strip.
Surface of the drip edge is clean, free of all
installed over underlayment. Make sure the Top
can be applied all over and cable rake edges
metal drip edge (code compliant minimum

Use whichever is more stringent.
Case of a conflict between provisions:
Structural design which is by others in
Regulations in addition to the
State and local codes, ordinances and
Fortified Home Standards are to be
Applicable for roof pitch 2:12 or greater
Approved 4" self-adhered sealant tape
Drip edge or use a manufactured
Water from accumulation under the
Adherent underlayment to prevent
Adherent underlayment between the
Sealant between the drip edge and
Adherent manufactured approved
Fortified roof covers. Apply a
underlayment.

MAX thickness over the drip edge and
of composite flashing cement with 1/8" starter strip or applying an 8" wide layer
Seal the drip edge. Best practices to seal the drip edge.

For corrosion protection requirements:
Refer to Fortified Home Standards for additional information.

General Notes

1. Refer to Fortified Home
2. Standards for additional information.
3. Best Practices to seal the drip edge.
4. Approved for roof pitch 2:12 or greater
5. Self-adhered sealant tape

For Fortified Home Standards are to be

APPENDIX: A

STANDARDS:

DATE: 11/18/2019

ROUTE:

F-DE-3

DRAWING #:

DESCRIPTION:

UNDE R LAYMENT
INSTALLATION OVER
HIGH WIND - DRIP EDGE

F-DE-3
OR RAKE
STICK STARTER STRIP INSTALLATION AT EAVE
FOR STEEP SLOPE – OPTION 1: PEEL AND
APPLIED SHINGLE INSTALLATION GUIDANCE

CLASS 4 OR FM 4437 CLASS 4 RATING.

REQUIREMENTS: ASPHALT SHINGLES MUST
HAVE AN OVERALL 130-PSF ROOF SHINGLE HAIL.
TO MEET 2020 HALO WIND REGIONS
RECOMMENDATION FOR
MANUFACTURER
INSTALLER RECOMMENDATIONS
ASPHALT SHINGLES
ASTM D7795 (CLASS H)
ASTM D332 (CLASS FR)

F-RC-1

DATE: 11/18/2019

FOR Field HOME • HARRHURON (2019)
FOR Field HOME • HARRHURON (2019)
INSTALLATION AT EAVE OR RAKE
OPTION 2 - SINGLE STRIP Starter
GUIDANCE FOR STEEP SLOPE.
ASPHALT SHINGLE INSTALLATION

2218 CLASS 4 OR FM 4473 CLASS 4 BATING.
required for installation of new asphalt shingles.

RECOMMENDATIONS FOR HIGH WIND
INSTALLATION PRACTICE:
(1) CLASS (H) ASPHALT SHINGLES
(2) FM 4473 CLASS (F) OR ASTM D150

STANDARD DETAIL F-DE-1 OR F-DE-2
PRER INSTALLATION FOR FORTIFIED
FLASHING MATERIALS PROPERTY 

Cement (1.8")
Cement (max. thickness of flashing
WEAR STRIP OF COMPLAINT FLASHER 
STARTER STRIP SET IN A MINIMUM 8 IN. 
SHINGLE MANUFACTURER APPROVED 

UNDEMENT.
CONTROL BETWEEN PROVISIONS USE WHICHEVER IS MORE
APPLICABLE STANDARDS AND REGULATIONS IN ADDITION TO THE
CONSTRUCTION WITH FEDERAL, STATE AND LOCAL CODES.
FOR ADDITIONAL ASPHALT SHINGLE INSTALLATION OPTIONS
REFER TO FORTIFIED HOME STANDARDS 0-F-1 AND 0-F-3.

ADDITIONAL INFORMATION
REFER TO APPLICABLE FORTIFIED HOME STANDARDS FOR
completed with underlayment

UNDERLAMENT INSTALLED

A MINIMUM OF 6" 
THICK STRIP OF FLASHING 
Cement (max. thickness of flashing
EXIT OF OPEN VALLEYS 
SHINGLES INSTALLED AT ALL INTERSECTIONS AND BOTH SIDES

DATE: 11/18/2019
DRAWING #: F-RC-2
DESCRIPTION:
APPLICABLE STANDARDS:
FORTIFIED HOME - HIGH WIND (100MPH)
FORTIFIED HOME -Hurricane (120MPH)
RECOMMENDATIONS FOR HIGH WIND REGIONS

Recommendations for High Wind Regions

Asphalt Shingle installed per manufacturer

ASTM D341 (Class F or ASTM D 348 (Class H)

UTILITY

With either a UL 2218 Class 4 or FM hail impact rating of "Good" or have an overall IBHS roof shingle requirement. Asphalt Shingles Must meet 2020 hail supplement

STANDARD DETAILS: F-8D-2, F-8PD-3, or F-8PD-4

Underlayment installed per Fortified

Drip Edge and ASTM D43 Asphalt Primer

Underlayment installed per Fortified

STANDARD DETAILS: F-8D-2, F-8PD-3, or F-8PD-4

Control between provisions use whichever is more structural design which is by others in case of a

4. The manufacturer's specifications.

3. For additional asphalt shingle installation options refer to fortified standard details F-RC-1 and F-RC-2

2. Additional Information

1. General Notes
For damaged or missing framing members, refer to Figure 1. This may require cutting through the sheathing. Remove the damaged framing members and replace with new, non-combustible framing members. If this cannot be done, replace the framing member with an equivalent fire-resistant rating. For existing roof framing, use alternate framing members as required by the local building code. Additional support and bracing may be required to prevent structural failure. Provide 2x4s blocking along all joints to prevent the passage of fire. The thickness of the sheathing shall be determined by the local building code and shall be at least 3/16". Use a minimum of four nails per foot of framing member to secure the sheathing. All framing members shall be anchored securely to prevent movement. Provide a minimum of two 3" by 3" blocking pieces at the joints to prevent the passage of fire.