STANDARD DETAIL SET
Hurricane and High Wind

2020
# FORTIFIED Home™ Standard Details Table of Contents

## Complete Set

*For Use with 2020 FORTIFIED Home Standard*

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</tr>
<tr>
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<td>✓</td>
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<td>✓</td>
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<td>Steep Slope Sealed Roof Deck - Flashing Tape and Underlayment - Shingle or Metal Roof Covers</td>
<td>✓</td>
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<tr>
<td>F-SRD-3</td>
<td>Steep Slope Sealed Roof Deck - Two Layers Felt Underlayment - Shingle or Metal Roof Covers</td>
<td>✓</td>
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<tr>
<td>F-SRD-4</td>
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<td>✓</td>
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<tr>
<td>F-SRD-5</td>
<td>Steep Slope Sealed Roof Deck - Flashing Tape, Underlayment and Roof Tile Cap Sheet - Concrete and Clay Tile Roof Covers</td>
<td>✓</td>
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<tr>
<td></td>
<td><strong>NEW FOR 2020</strong></td>
<td></td>
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<tr>
<td>F-SRD-6</td>
<td>Steep Slope Sealed Roof Deck - Self-Adhered Membrane - Concrete and Clay Tile Roof Covers</td>
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<tr>
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<td>Hurricane - Drip Edge Installation Over Underlayment</td>
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<tr>
<td>F-DE-2</td>
<td>DISCONTINUED IN 2020</td>
<td>N/A</td>
</tr>
<tr>
<td>F-DE-3</td>
<td>High Wind - Drip Edge Installation Over Underlayment</td>
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<tr>
<td>F-RC-1</td>
<td>Asphalt Shingle Installation Guidance for Steep Slope - Option 1: Peel and Stick Starter Strip Installation at Eave or Rake</td>
<td>✓</td>
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<tr>
<td>F-RC-2</td>
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<tr>
<td>F-RC-3</td>
<td>Asphalt Shingle Installation Guidance for Steep Slope - Option 3: Shingles Set Directly in Flashing Cement at Rake Only</td>
<td>✓</td>
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<tr>
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<td>Re-Roofing Deck Replacement Fastening Detail</td>
<td>✓</td>
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<tr>
<td>F-RR-2</td>
<td>Re-Roofing New Scab Member Detail for Damaged or Deteriorated Wood Framing Member</td>
<td>✓</td>
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<tr>
<td>F-RR-3</td>
<td>Hurricane - Re-Nailing the Roof Deck (Wood Structural Panels)</td>
<td>✓</td>
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<tr>
<td>F-RR-4</td>
<td>High Wind - Re-Nailing the Roof Deck (Wood Structural Panels)</td>
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<td><strong>NEW FOR 2020</strong></td>
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<tr>
<td>F-RR-5</td>
<td>Fastening Wood Structural Panel Roof Sheathing Over Existing 1x Roo Deck Boards with Gaps</td>
<td>✓</td>
</tr>
<tr>
<td>F-GS-1</td>
<td>Temporary Gable Vent Shuttering</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td><strong>NEW FOR 2020</strong></td>
<td></td>
</tr>
<tr>
<td>F-GE-1</td>
<td>Prescriptive Gable End Outlooker Framing and Anchorage</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td><strong>NEW FOR 2020</strong></td>
<td></td>
</tr>
<tr>
<td>F-S-1</td>
<td>Soffit Retrofit Detail</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td><strong>NEW FOR 2020</strong></td>
<td></td>
</tr>
<tr>
<td>F-CTD-1</td>
<td>Prescriptive Chimney Tie-Down Detail for Chimneys up to 5 ft</td>
<td>N/A</td>
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</tbody>
</table>
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
   - GE = Gable End
   - S = Soffit
   - CTD = Chimney Tie Down

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**

Suitable corrosion-resistant material. Corrosion-resistant sheet metal connectors, anchors, and hangers shall meet the requirements of ASTM A 653 G90.

Corrosion-resistant nails and screws shall meet the requirements of ASTM A 157 A. Class 1 or an equal corrosion resistance by coating. Galvanized, stainless steel, or other.

1. Hot-dip galvanized shall meet the requirements of ASTM A 1525 A. Class D for nails and screws.

### Notes:

- and hangers in vented enclosed areas
- and hangers in exposed areas

<table>
<thead>
<tr>
<th>Case</th>
<th>Material</th>
<th>Material</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corrosion resistant</td>
<td>Stainless steel</td>
<td>Stainless steel</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>Corrosion resistant</td>
<td>Stainless steel</td>
<td>Stainless steel</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>Allowed</td>
<td>Hot-dip galvanized</td>
<td>Hot-dip galvanized</td>
<td>Hot-dip galvanized</td>
</tr>
<tr>
<td>Structural</td>
<td>Steel, hot-dip galvanized</td>
<td>Steel, hot-dip galvanized</td>
<td>Steel, hot-dip galvanized</td>
</tr>
<tr>
<td>Hot-dip Galvanized</td>
<td>Not allowed</td>
<td>Not allowed</td>
<td>Not allowed</td>
</tr>
<tr>
<td>Aluminum soils</td>
<td>Soft and soil vent fasteners</td>
<td>Soft and soil vent fasteners</td>
<td>Soft and soil vent fasteners</td>
</tr>
<tr>
<td>Not required to meet minimum corrosion protection requirements unless required by the local building code or ordinance</td>
<td>Fasteners used for attachment of detectable</td>
<td>Fasteners used for attachment of detectable</td>
<td>Fasteners used for attachment of detectable</td>
</tr>
<tr>
<td>Meatal fasteners and fasteners (exposed)</td>
<td>Concrete and day roof tile fasteners</td>
<td>Roofing nails or shingles</td>
<td>Roofing nails or shingles</td>
</tr>
</tbody>
</table>

### Structures

- Structures more than 3,000 ft from seawater
- Structures but less than 3,000 ft from seawater
- Structures but less than 3,000 ft from seawater
- Structures within 300 ft of seawater

### Fortified Fastener and Connector Corrosion Protection Requirements

- Hot-dip Galvanized
- Conventional and day roof tile fasteners
- Roofing nails or shingles
PROVISIONS USE WHICHEVER IS MORE STRINGENT.

NON-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:

- 3
- 4
- 5

HIP ROOF

CABLE ROOF

FLAT ROOF

ASCE 7-10: 3 = 4 in.
(0.75")
CABLE ROOF

ASCE 7-16: 3 = 0.6 ft
(0.77")
CABLE ROOF

ROOFS - ZONE 3
CORNER ZONES

ROOFS - ZONE 2/WALLS - ZONE 4
INTERIOR ZONES

END ZONES

ROOFS - ZONE 2/WALLS - ZONE 5
Diameter and Length: They have the required minimum acceptable provided they have the required minimum.

Note: Clippped head, plug or round head nails shall be

<table>
<thead>
<tr>
<th>Member (min. length of nail = 2 - 1/2&quot;)</th>
<th>Larger than 8&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Member (min. length of nail = 2 - 1/2&quot;)</td>
<td>Up to 8&quot;</td>
</tr>
</tbody>
</table>

Member (roof decking) width

Number and Minimum Dimensions of

Atticlam

Number of Fasteners Required for Wood Board Decking

Referred to Table F-RS-1 for Required

Size and Number of Nails

Provisions, use whichever is more stringent.

Structural design which is by others in case of a conflict between state and local code, ordinance and regulations in addition to the

Fortified Home Standards are to be applied in conjunction with Federal

Applicable to the Fortified Home Standards for additional information.

1. Applicable for shingled or metal roof covers.

Refer to Table F-RS-1 for Required

GENERAL NOTES

2. Applicable to Fortified Home Standards for additional information.

3. Applicable to Fortified Home Standards for additional information.

Fortified Home - Hurricane (2020)

Ronfield - Hurricane (2020)

Roof Deck Attachment - Sawn Lumber

Wood Board Roof Deck with No"
DRIP EDGE REFER TO GENERAL NOTE #3.

PRIMED WITH A 1/4 IN. BRUSH FOR SEALING THE 
PREMIXED SYSTEM STRIP MANUAL FV DRIVER. 

OF THE DRIP EDGES CLEAN, FREE OF ALL AN 
OF UNDERLAYMENT AND MAKE SURE THE Top SURFACE 
ACROSS ALL EDGES AND MAKE EDGES INSTALLED 

METAL DRIP EDGE (MINIMUM 2 GAUGE FOR STEEL) 

USE WHATEVER IS MORE STRENGTHEN.

CASE OF A CONFLICT BETWEEN PROVISIONS,

STRUCTURAL DESIGN IS BY THESE IN 

STATE AND LOCAL CODES AND EN 

APPLIED IN CONJUNCTION WITH FEDERAL 

APPLIED HOME STANDARDS ARE TO BE.

FOR METAL ROOF COVERS APPLY A 

UNDERLAYMENT 

MAX THICKNESS OVER THE DRIP EDGE 

OF COMPATIBLE FLASHING OVER WITH 1/8" 

SIDE AT ISSUE USING A SELF-ADHESIVE 

UNDERLAYMENT AND STARTER STRIP TO THE 

SHINGLE ROOF COVERS SEAL THE DRIP EDGE. 

BEST PRACTICES TO SEAL THE DIP EDGE 

 FOR COMPOSITION PROOF RECOMMENDATIONS 

REFER TO PORTFIED HOME STANDARDS DETAIL F-1: 

STANDARDS FOR ADDITIONAL INFORMATION 

1. GENERAL NOTES.
ASPHALT SHINGLE INSTALLATION

INSTALLATION:

1. REFER TO APPLICABLE FORGIDE HOME STANDARDS FOR ADDITIONAL INFORMATION.
2. SHAPE & SHINGLE MATERIALS SHALL BE ETN IN A MINIMUM 1/8" THICKNESS OF FLASHING CEMENT (MAX. THICKNESS OF WIDE STRIP OF FLASHING CEMENT = 1/8""). OUTSIDE OF CLOSED VALLES.
3. THE MANUFACTURE SPECIFICATION.
4. FOR ADDITIONAL ASPHALT SHINGLE INSTALLATION OPTIONS, REFER TO FORGIDE HOME STANDARDS PER FORGIDE.

DETAIL F-DE.1 AND/OR F-DE.3
INSTALLATION PER FORGIDE STANDARD.

1. STANDARD DETAILS F-SPD.2 OR F-SPD.3 OR F-SPD.4
DROPE EDGE AND ASHM OR ASPHALT PRIMER.

2. SHINGLES SHALL BEET DIRECTLY IN A MINIMUM 8" WIDE.

3. SHINGLES SHALT NOT EXTEND MORE THAN 1/4" BEYOND DROPE EDGE.

4. UNDEMENT.

CEMENT/ROOF MASTIC IS COMPATIBLE WITH MANUFACTURER'S FLASHING.

5. RECOMMENDATIONS FOR HIGH WIND REGIONS.

6. RECOMMENDATIONS PER MANUFACTURER.

TO MEET 2020 HALL SUPPLEMENT REQUIREMENTS.

A UL 2218 CLASS 4 OR FM 4473 CLASS 4 RATING.

EXCELLENT OR BE POLYMER MODIFIED WITH ENTER.

ROOF SHINGLES MUST HAVE AN OVERALP BJS.
Below
THE HOUSE AND NOT INTO THE WALL
Cavity can drain to the outside of
water that accumulates in the
inside of attic. Ensure that any
vent edges of shutter is installed on
shutters to the trim boards around
striping can be used to seal the
stripes of:
NOTE: SELF-ADHESIVE WEATHER

House or from inside of attic:
Shutter can be installed from outside of

(Refer to Table F-0.7)
d
2.0 MAX
4.0 MAX

Permanant corrosion resistant fastener
of (2) fasteners per each panel size required.
F-0.4 for fasten information minimum
Through pre-drilled holes refer to Table
FRP

Outline of cable vent beyond shutter
and fastener spacing shown.
May vary but not to exceed max dimensions
pre-drilled holes at fastener location shape
flat shutter cut to PT w/2".76" Min. thickness
Wood structural panel or other nonporous

Strutent:

is by others in case of a conflict between provisions, use whichever is more

Local codes, ordinances and regulations in addition to the structural design with
Fortified home standards and shutters are to be removed after A storm threat is over

Adequate attic ventilation must be maintained on a regular basis

Temporary basic only and shutters are to be removed after a storm threat is over

Support structure

TABLE 0.4: FASTENING SCHEDULE FOR CABLE VENT COVER

<table>
<thead>
<tr>
<th>Type</th>
<th>Support Structure</th>
<th>End Distance D</th>
<th>Fastener Type &amp; Size</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete</td>
<td>1/4&quot; FASNING W/2&quot;</td>
<td>1/4&quot; FASNING E</td>
<td>1.0 W/2&quot; LAG SCREWS W/</td>
<td></td>
</tr>
<tr>
<td>Wood</td>
<td>1/4&quot; FASNING W/1&quot;</td>
<td>1/4&quot; FASNING E</td>
<td>1.0 W/2&quot; LAG SCREWS W/</td>
<td></td>
</tr>
</tbody>
</table>

DATE: 11/02/2020
F-0.7
DRAWING:
DESCRIPTION:
APPLICABLE STANDARDS:
FORFIELD HOME - HURRICANE (2020)

1. Refer to applicable Fortified Home Standards for additional information.
2. To maintain proper attic ventilation, vent shuttering may be performed on a
   regular basis.
3. Adequate attic ventilation must be maintained on a regular basis.
4. Refer to Fortified Home Standards for corrosion protection requirements.
**DRAWING #:** F-5

**DESCRIPTION:** SOFT RETROFIT DETAIL

<table>
<thead>
<tr>
<th>SCREW #8 X 1/2&quot; EMBEDMEDNT</th>
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</thead>
<tbody>
<tr>
<td>NAIL 6D X 1&quot; EMBEDMEDNT</td>
</tr>
<tr>
<td>STAPLE 7/16 CROWN X 2&quot; LENGTH X 16 GA</td>
</tr>
</tbody>
</table>

**GENERAL NOTES:**

- Use whichever is more stringent.
- Case of a conflict between provisions, structural design which is by others in
  applicable standards in addition to the
- Fortified Home Standards are to be

**APPLICABLE STANDARDS:**

- For additional information, refer to applicable Fortified Home
1. REFER TO APPLICABLE FORFIELD HOME STANDARDS FOR ADDITIONAL INFORMATION.

2. APPLIES TO FULLY SHEATHED EXTERIOR PANELS WITH 7/16 MIN. WOOD INTERMED DIATE 2 X 4." FRAME.

3. REFER TO APPLICABLE FORFIELD HOME STANDARDS AND LOCAL CODES FOR MINIMUM REINFORCEMENTS. PERMITS ASSUMED TO BE ACCORDING TO CODES APPLIED IN CONSTRUCTION.

4. FRAMING MEMBERS AT EACH STUD OR STUD-TO-STUD CONNECTION.

5. ROOF FRAMING TO CONTRIBUTE TO ENERGIZED ROOF SPACE.

6. JOIST HANGERS ARE AT EACH END.

7. MINIMUM FRONTING PLATED TO ROOF SUPPORTED BY 2 X 4" FRAMING SUPPORTED BY FLUSHING MERIDIANS.

8. CONTINUOUS TRELLIS STRAPS WITH MIN. TENSION.