



Sealed Roof Deck

Bulletin No. 2015-01

First Release:

March 19, 2015

Prepared by:

Fred Malik, Vice President,
FORTIFIED Programs

Applicable Standards:

FORTIFIED Home™–Hurricane
FORTIFIED Home™–High Wind
FORTIFIED Home™–High Wind & Hail
FORTIFIED for Safer Living™

Applicable Designation Level:



Installation of 2 Layers of #30 Felt as a Qualified Sealed Roof Deck System for Asphalt Shingle or Metal Roofing

Abstract

The installation of 2 layers of #30 roofing felt has been tested, evaluated and approved by IBHS as a qualified sealed roof deck system for asphalt shingle or metal roofing.

Requirements

- Two (2) layers of ASTM D226 Type II (#30) or ASTM D4869 Type III or Type IV (#30) underlayment shall be installed in a shingle fashion, lapped 19 in. on horizontal seams (36-in. roll), and 6 in. on vertical seams.
 - **NOTE:** Be sure to check product labeling carefully. Not all products labeled ASTM D4869 are Type III or Type IV. Look for ASTM D4869 felt that is labeled Type III or Type IV. ASTM D4869 Type I or Type II will **NOT** be accepted.
- Installation of first course of felt to be installed as described below and shown in Figure 1.
 - Cut 17 in. off one side of the roll and install the remaining 19-in.-wide strip of underlayment* along the eave. Safely tack in place. Carefully install a 36-in.-wide roll of underlayment* over the 19-in.-wide course of underlayment along the eave. Follow the same procedure for each, overlapping the sheets 19 in. (leaving a 17-in. exposure). Fasten with one row in the field of the sheet at 12 in. o.c. and one row at the overlaps fastened 6 in. o.c.
- Fasten underlayment at approximately 6 in. o.c. along the laps and at approximately 12 in. o.c. in the field of the sheet between the side laps.
 - For design wind speeds less than 140 mph (ASCE 7-05): secure underlayment using annular ring or deformed shank nails with 1-in.-diameter caps (button cap nails).

*Must use ASTM D226 Type II (#30) or ASTM D4869 Type III or Type IV (#30) underlayment.

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- For design wind speeds 140 mph or greater (ASCE 7-05): secure underlayment using annular ring or deformed shank nails with thin metal disks (“tincaps”).

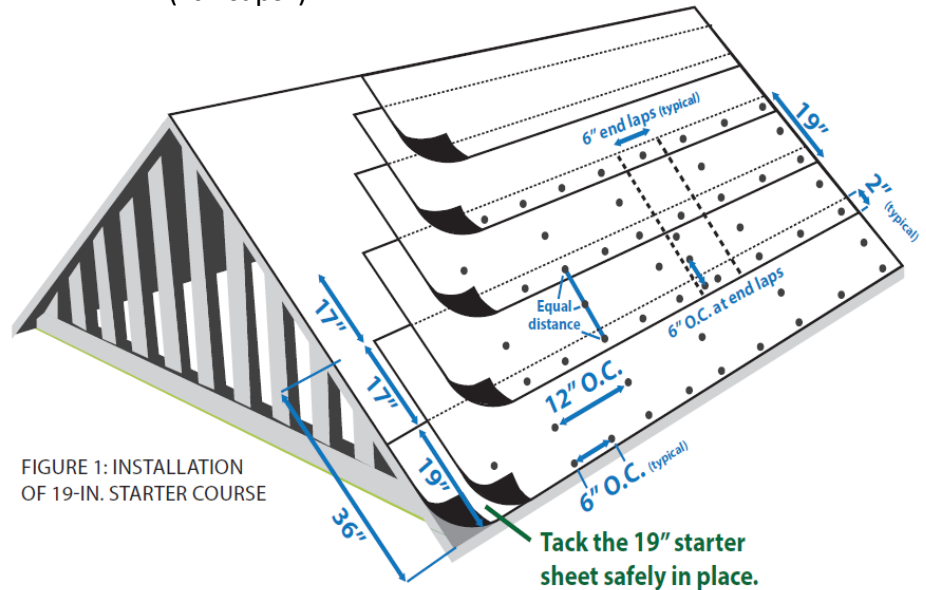


FIGURE 1: INSTALLATION OF 19-IN. STARTER COURSE

Compliance Verification Requirements

This method of sealing the roof deck is to be documented and verified by a certified FORTIFIED evaluator. Acceptable documentation includes but is not limited to: pictures of laps and fasteners at 4 different locations of the roof; a completed Roof Compliance Form (RCF-1); certification by the installer; bills of lading; invoices; and product packaging.

Completing Evaluation Form (For FORTIFIED Evaluators Only)

On the evaluation form, in the “Sealed Roof Deck” section, for question SRD System Type, select “Other” (see Figure 2 below). It will be necessary to provide documentation as described above.



Figure 2. Evaluation Form; Section—Sealed Roof Deck; Question—SRD System Type?