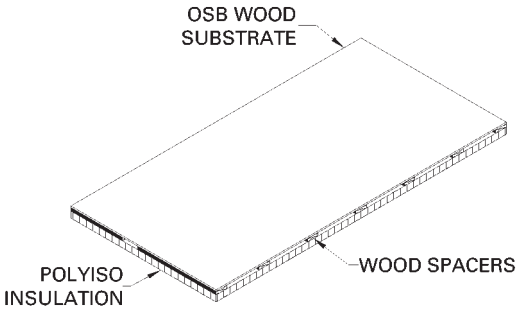
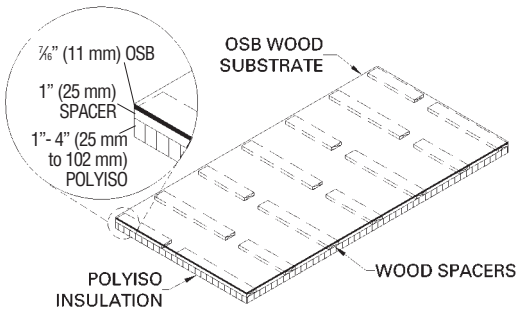
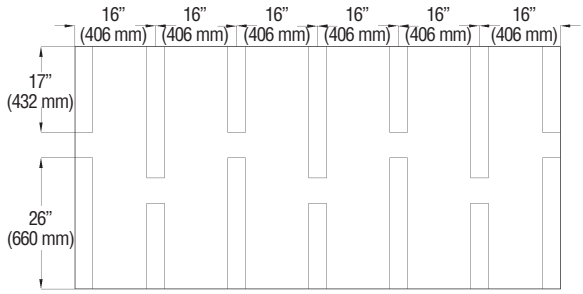
Vented Nailboard® Roof Insulation Application Guide

Description

Vented Nailboard combines the features of rigid high thermal foam insulation with a vented, nailable surface for shingles. It is comprised of a one-to-four-inch layer of polyisocyanurate insulation, one-inch wood spacers, and 7/16-in. (11 mm) oriented strand board (OSB) substrate. The spacers allow for airflow between the insulation and the nailable surface to which the shingles are attached. The ARMA technical bulletin 211-RR-94 indicated that heat build-up due to poor ventilation can "reduce the anticipated life of the asphalt shingles." They recommend a minimum of ¾-in. (19 mm) airspace. Vented Nailboard has 3,555 cubic inches of vented airspace per board. Many shingle manufacturers require ventilation between the shingles and the insulation.



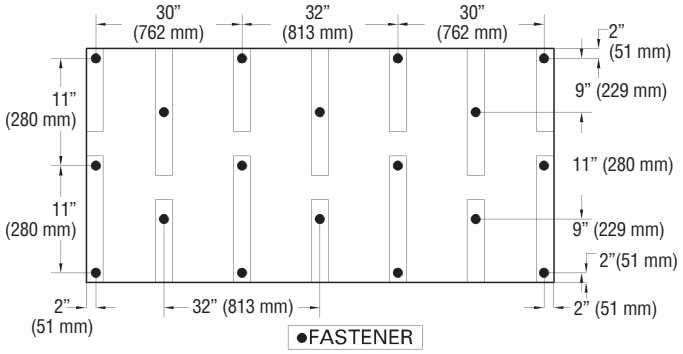




Fastening Pattern

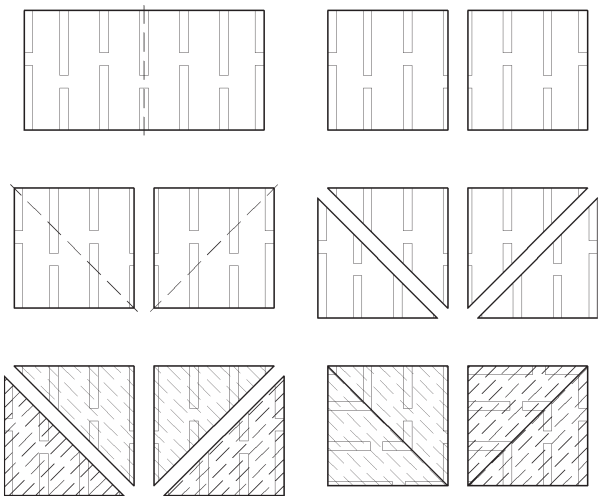
Using bugle head screws, fasten the Vented Nailboard through the oriented strand board top layer and the bottom layer of insulation, penetrating the deck to the depth necessary for the deck type being used.

Deck Type	Penetration
Wood	1" (25 mm)
Tongue & Groove	1" (25 mm)
15/32" (12 mm) Plywood or OSB	½" (13 mm) through plywood
Metal	¾" (19 mm) through top flange
Concrete	2" (51 mm)



Cutting Miters

To cut miters for hips and valleys, cut the 4-ft x 8-ft (1.2 m x 2.4 m) board in half. Cut both 4-ft x 4-ft (1.2 m x 1.2 m) boards on the diagonal. Join the opposite triangles from each 4-ft x 4-ft (1.2 m x 1.2 m) board. See illustrations below.



WATER FIRE HAIL WIND

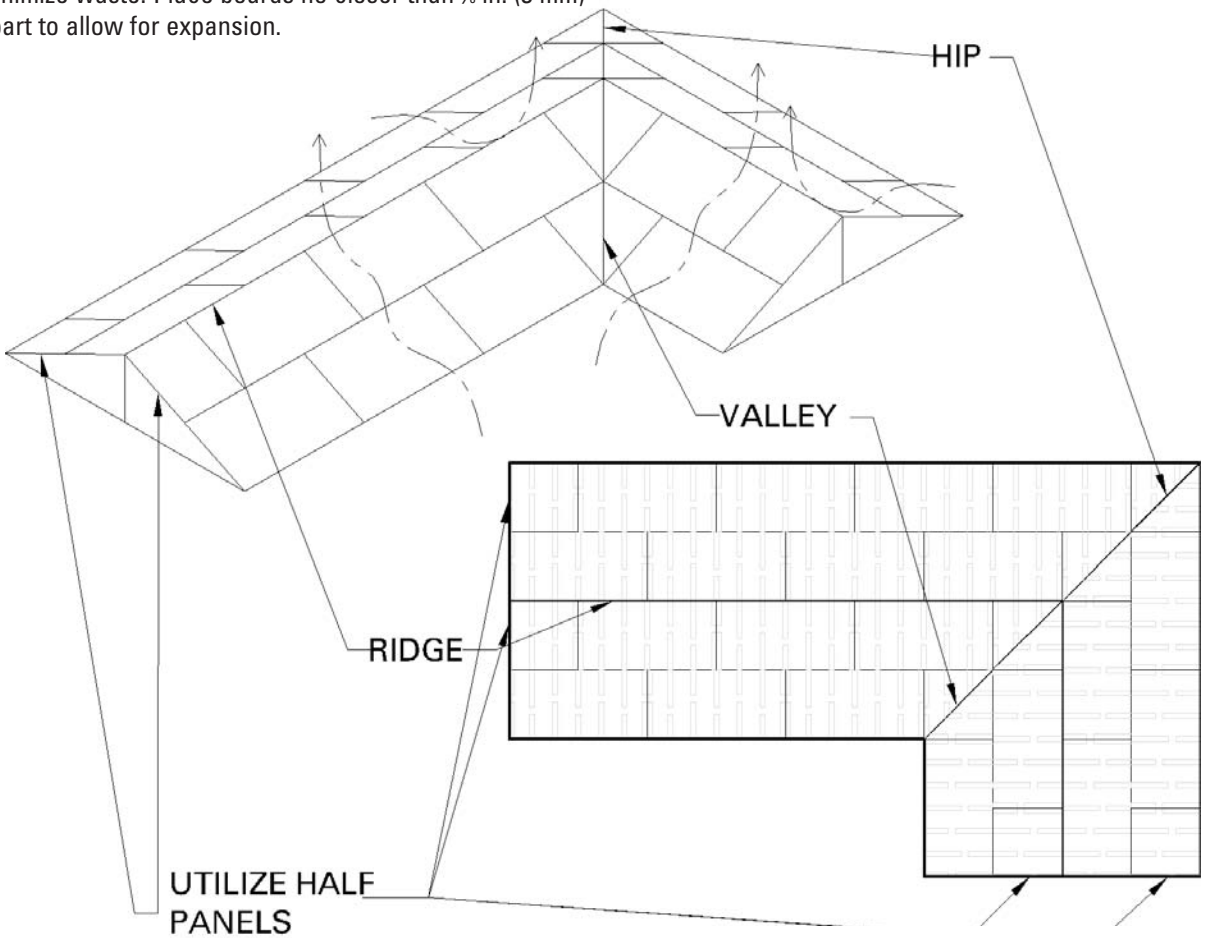
RS-5164 7-07 (Replaces 3-03)

Johns Manville

Vented Nailboard Roof Insulation Application Guide

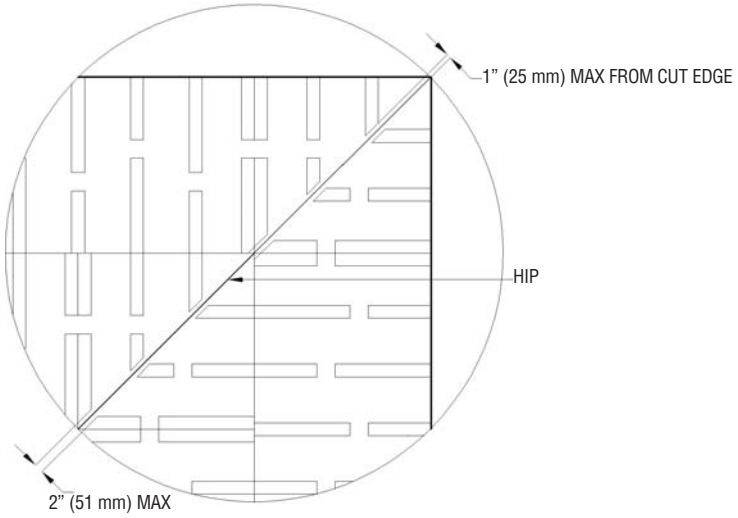
Sample Layout

Stagger boards every 4 ft (1.2 m). Utilize half panels to minimize waste. Place boards no closer than ⅛ in. (3 mm) apart to allow for expansion.



Hips

For hips only, cut wood spacers max 1 in. (25 mm) from cut lines on mitered hips. This will provide a channel for the air flow up the hip to the ridge, providing proper ventilation.

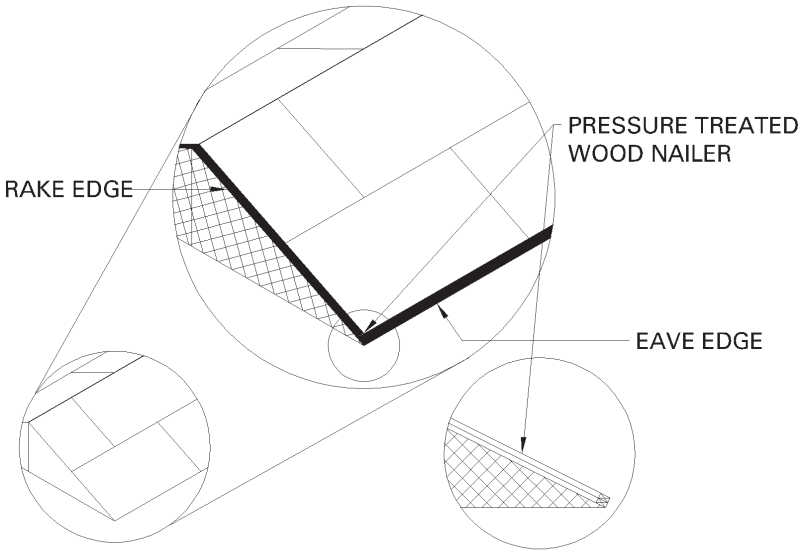


WATER FIRE HAIL WIND

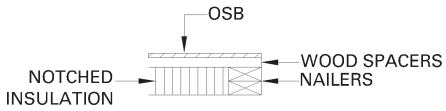
RS-5164 7-07 (Replaces 3-03)

Vented Nailboard Roof Insulation Application Guide

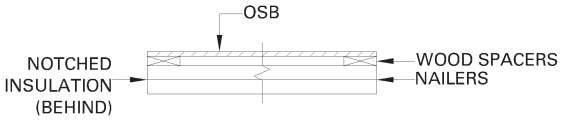
Edge Nailers
To preserve the insulation on Vented Nailboard attach pressure treated wood nailers equal to the thickness of the insulation on the rake and eave edges. Cut the insulation away from the Vented Nailboard on the eave edge. This will allow air to enter above the nailer, but below the OSB, providing proper ventilation.



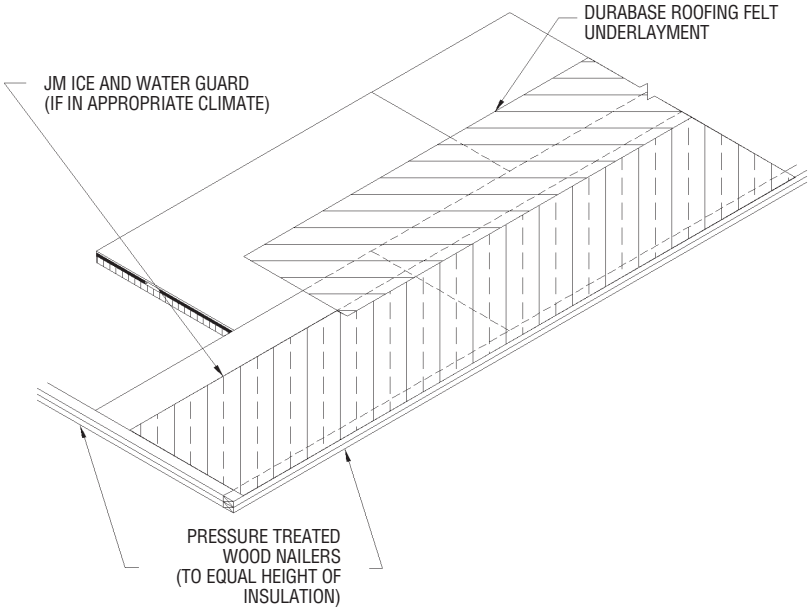
SIDE VIEW



FRONT VIEW



Vapor Barriers
In appropriate climate, utilize JM Ice and Water Guard.



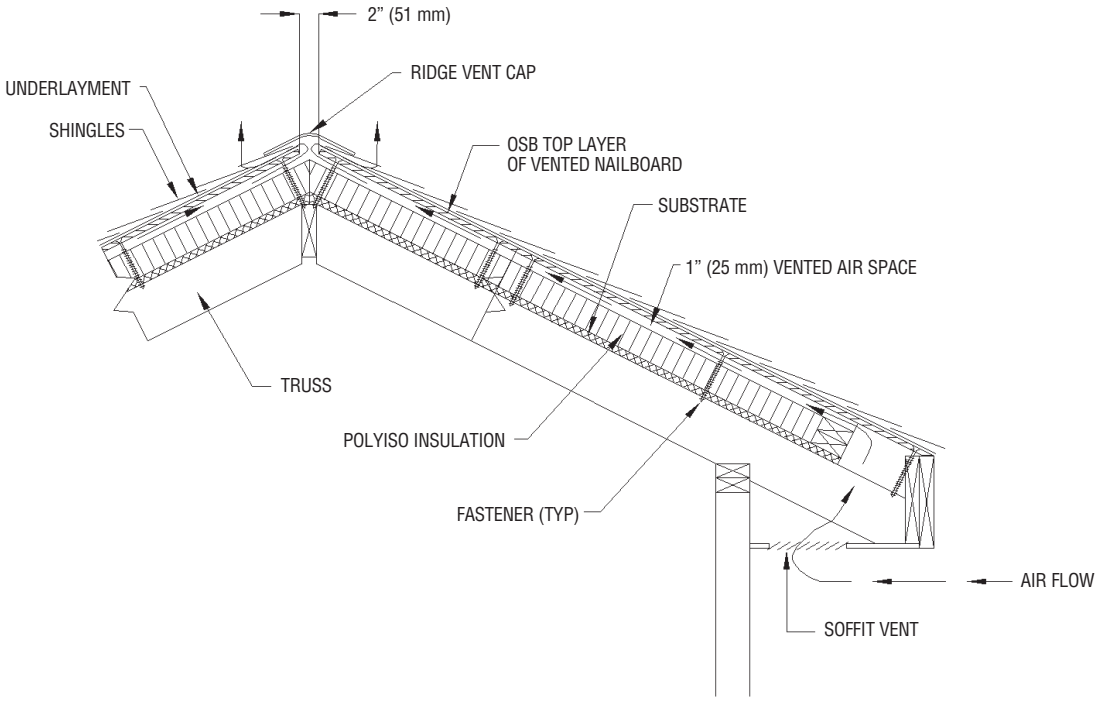
WATER FIRE HAIL WIND

RS-5164 7-07 (Replaces 3-03)

Vented Nailboard Roof Insulation Application Guide

Ridge and Eave System Detail
Be sure to cut back the insulation on the Vented Nailboard on the first row. Place your nailers equal to the thickness of the insulation and allow the OSB and wood spacers to run to edge of roof.

This will allow the air to flow through the soffit vent, through the Vented Nailboard and to escape through a ridge vent cap. At the ridge, ensure there is a 2-in. (51 mm) gap between the OSB layer to allow adequate ventilation.



Contact your local sales representative for more information.

Refer to the Material Safety Data Sheet prior to using Vented Nailboard Roof Insulation. Material Safety Data Sheets are available by calling (800) 654-3103 or online at www.jm.com.

WATER FIRE HAIL WIND

RS-5164 7-07 (Replaces 3-03)