

### Multi-Layer, Offset and Staggered Board Joints

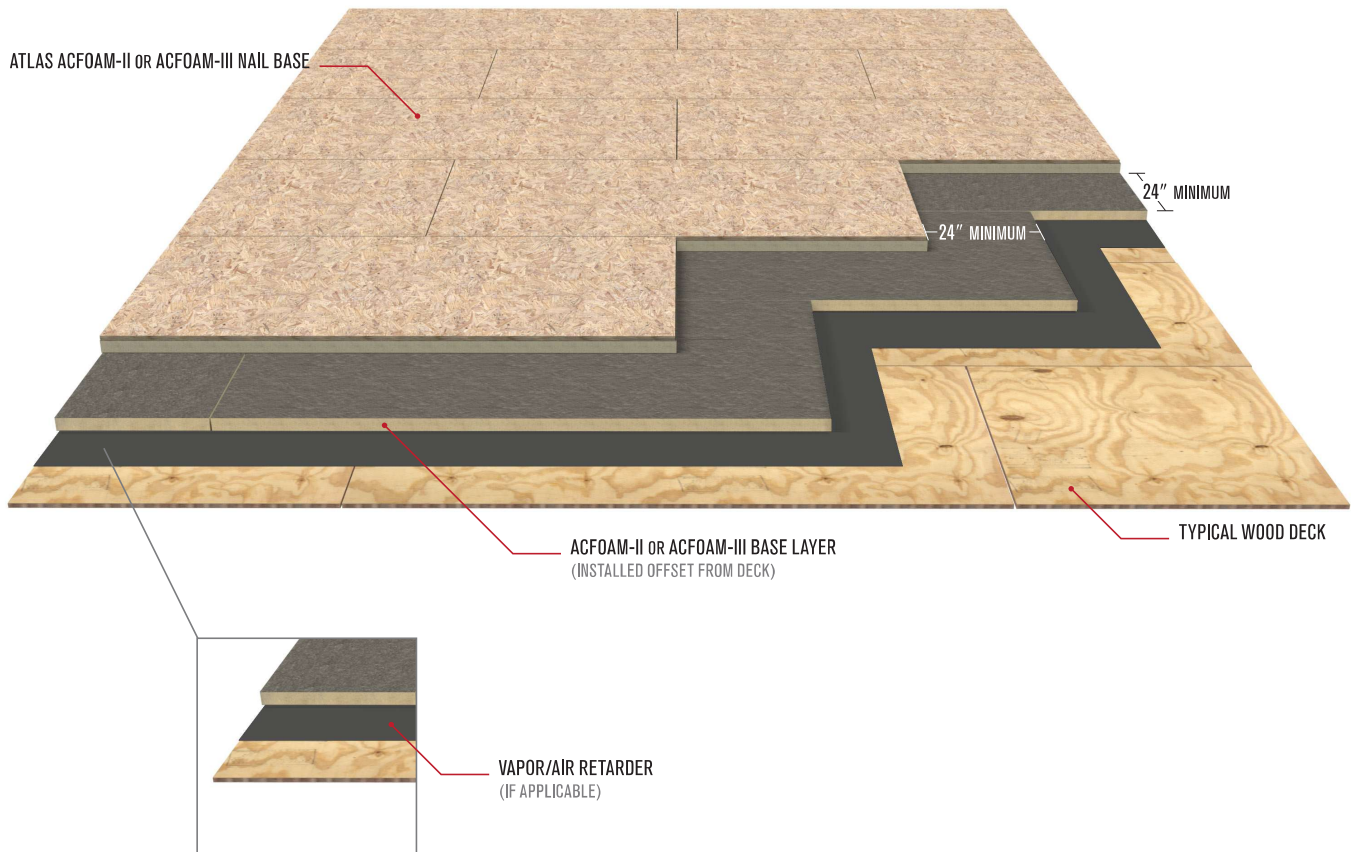
- To minimize the effect of thermal bridging, and the impact of moisture/airflow into the roof system, Atlas strongly recommends the ACFoam Nail Base roof assembly be installed in multiple layers using a base layer(s) of ACFoam roof insulation below the ACFoam Nail Base composite panel and through-fastened with Atlas Nailable Insulation Fasteners.
- When installing a multi-layer insulation assembly, Atlas recommends a minimum 24" offset and stagger of the insulation joints between layers.
- Atlas recommends that the designer carefully consider the need for a vapor/air retarder in order to limit moisture/airflow into the roof system. Determining the need for and location of the vapor/air retarder remains solely the responsibility of the architect, engineer, or design professional. Follow vapor/air retarder manufacturer's installation instructions for seaming and perimeter edge/penetration terminations.

**NB-1.1**

**MULTI-LAYER APPLICATION**

**SCALE: NTS**

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### Board Orientation

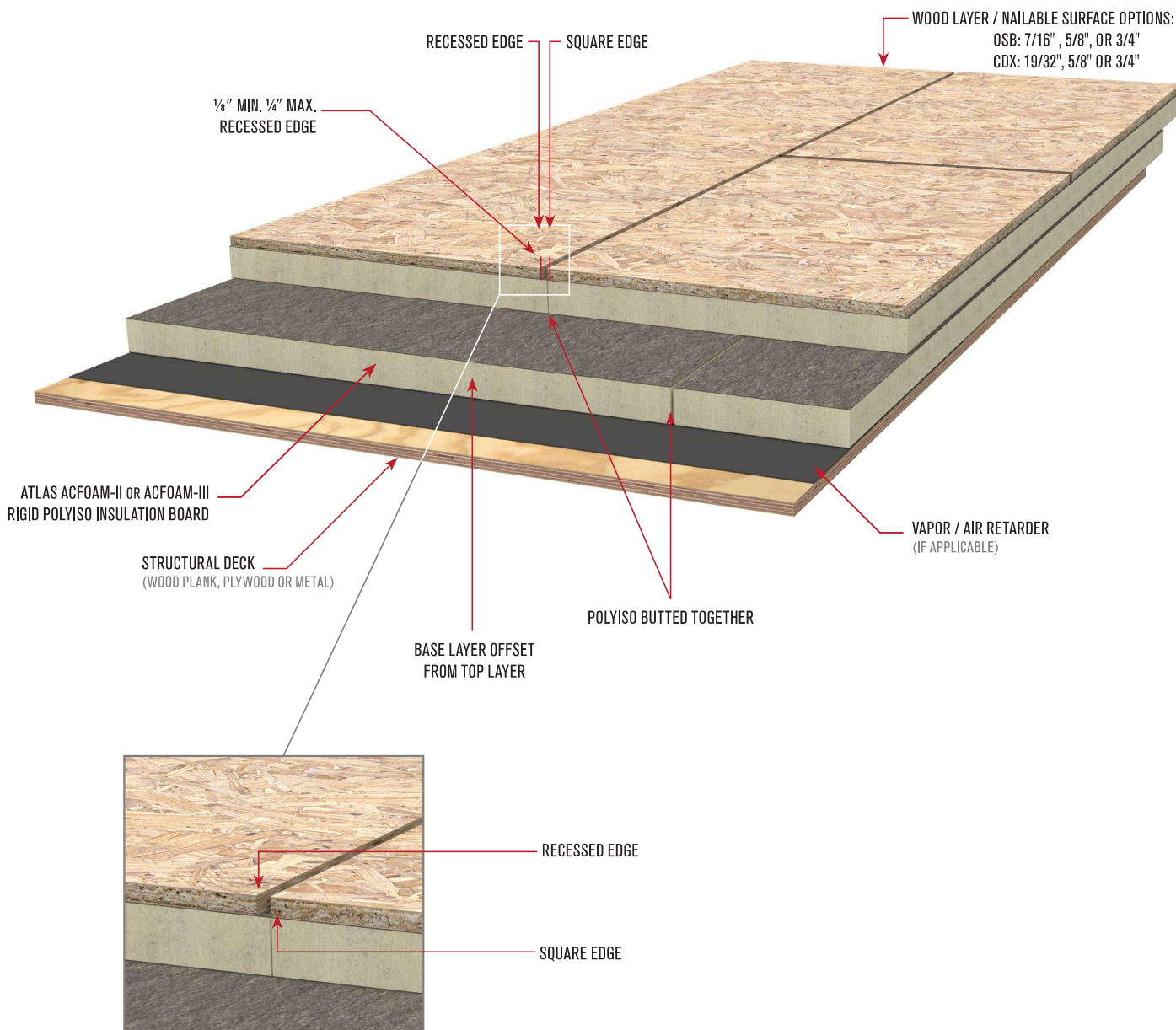
- ACFoam® Nail Base shall be installed over an approved structural roof deck. Refer to page 17 for list of approved decks types.
- Always orientate ACFoam Nail Base panels with the 1/8" minimum recess edges against a square edge of an adjacent panel. This will yield a consistent nominal 1/8" gap in the OSB/CDX around all perimeter edges of the panel.

NB-1.2

RECESSED EDGE DETAIL

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### Fastening Requirements

- Fastening requirements are only valid for Atlas Nailable Insulation Fasteners.
- See page 17 for approved deck types, required number of Atlas Nailable Insulation Fasteners per panel and fastener penetration requirements.
- For fastening patterns, see pages 20-22.

**Prior to installation**, Atlas Roofing Corporation recommends, as applicable, you consult with your local building code official(s), contract documents, design professional, and all other relevant parties to ensure compliance.

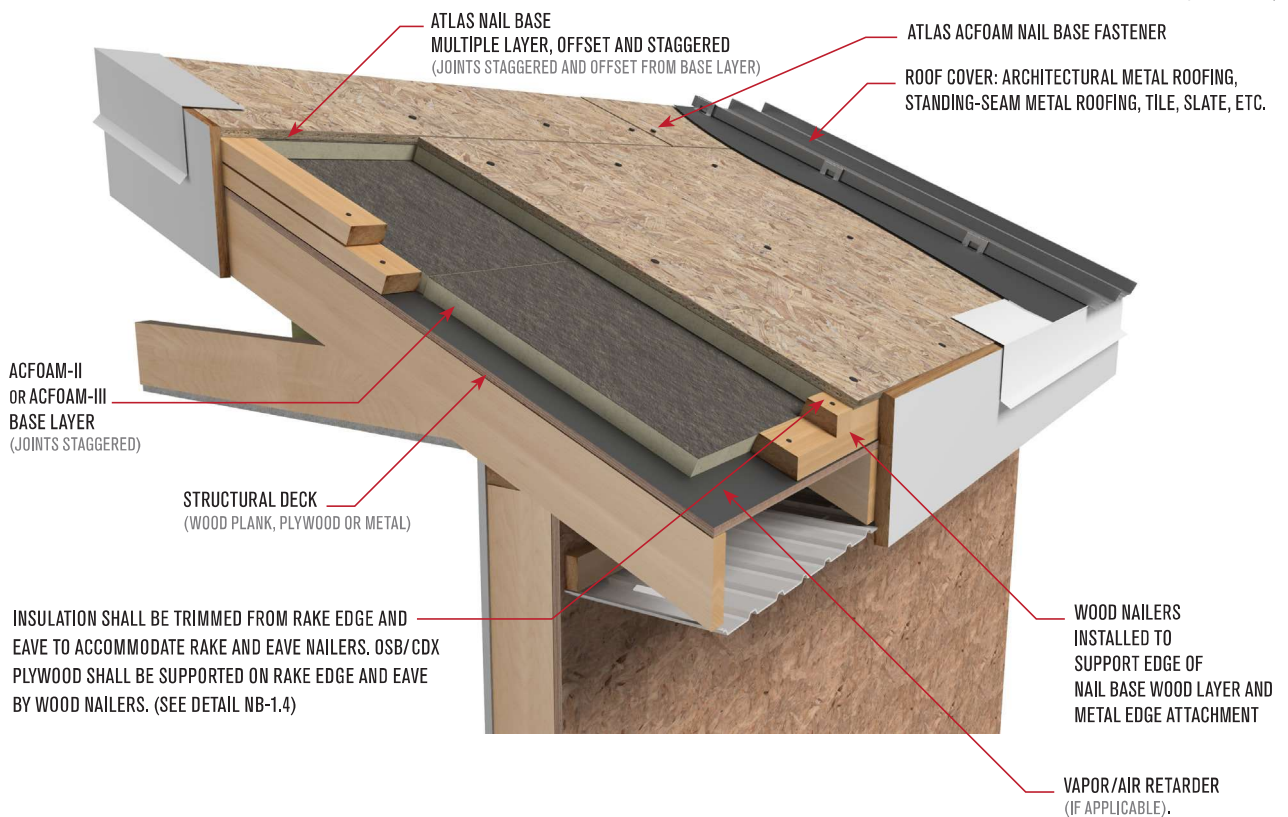
### Typical Eave Nailer and Rake Edge

NB-1.3

TYPICAL EAVE AND RAKE DETAIL

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### Rake Edge and Eave Nailer

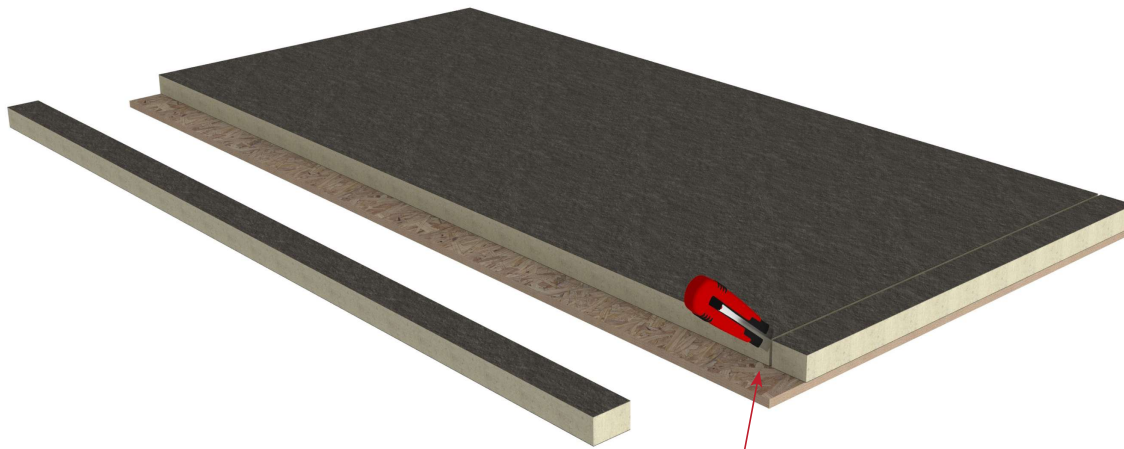
**NB-1.4**

RAKE EDGE & EAVE NAILER INSTALLATION

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Insulation shall be trimmed from rake edge and eave to accommodate rake and eave nailers. OSB/CDX PLYWOOD shall be supported on rake edge and eave by wood nailers.



FLIP BOARD OVER AND CUT ACFOAM BACK TO ALLOW SPACE FOR RAKE AND EAVE SUPPORT BLOCKING.

### Storage and Handling

- ACFoam® Nail Base shall be kept dry before, during and after installation. Refer to product packaging, Atlas Technical Bulletin #12 and PIMA Technical Bulletin #109 for storage and handling recommendations. Refer to Page 21 for additional information.



# ACFoam<sup>®</sup> CrossVent<sup>®</sup>

## Nailable Cross Ventilated Roof Insulation

- ACFoam CrossVent is a 4' x 8' non-structural panel comprised of thermally efficient closed-cell ACFoam<sup>®</sup>-II or ACFoam<sup>®</sup>-III polyisocyanurate (polyiso) insulation board bonded to 5 individual 4" wide Integrity EPS vent spacer strips that are bonded to a min. 7/16" APA/TECO rated OSB or 1 1/2" CDX plywood nailable surface.
- Wood Layer / Nailable Surface Options:
  - OSB: 7/16", 5/8" or 3/4"
  - CDX: 19/32", 5/8" or 3/4"
- Available as a special order product with FSC<sup>®</sup> Certified OSB or CDX plywood.
- Available with 1.0", 1.5" or 2.0" airspace for 9.5 sq. inch, 14.25 sq. inch, and 19 sq. inch of Net Free Area (NFA) respectively.
- Airspace is provided by five 4.0" wide (24" o.c.) Atlas Integrity EPS vent spacers per panel, each yielding a 6,000 psf minimum compressive resistance and continuous support for Atlas Nailable Insulation Fasteners which allows flexibility for compliance with fastening densities required by the International Building Code (IBC).
- Typical roof systems include asphalt shingles, standing seam metal, architectural metal roofing, tile and slate. For standing seam metal roofing, or heavy roof coverings such as tile, slate, etc., thicker OSB / CDX such as 3/4" may be required. Consult roof cover manufacturer or design professional.
- Manufactured in accordance with ASTM C1289, Type V Specifications.
- Made to order in nominal thickness of 2.5" to 6.75", providing long-term thermal resistance (LTTR) values from 5.7 to 23.6.
- Polyiso Layer: 1.0" (25.4mm) minimum up to 4.0" (101.6mm) maximum.
- Manufactured using CFC-, HCFC- and HFC-free foam blowing technology with zero ozone depletion potential (ODP) and virtually no (negligible) global warming potential (GWP).
- Approved only when mechanically attached to an approved structural deck as per Atlas Fastening Requirements. Not approved to adhere ACFoam CrossVent to structural decks, base layers of insulation, existing roof systems, or air / thermal barriers.
- ACFoam CrossVent is intended for use on 3:12 roof slopes or greater.
- See ACFoam CrossVent Technical Data Sheet for additional information.
- Atlas recommends the design professional for the project determines suitability for type (OSB or CDX) and thickness of the nailable surface of the CrossVent panel.
- Prior to installation, Atlas Roofing Corporation recommends, as applicable, you consult with your local building code official(s), contract documents, design professional, and all other relevant parties to ensure compliance.
- For additional information, such as airspace options with corresponding net free area, please see the ACFoam CrossVent Technical Data Sheet.

### CV-1.0

### STANDARD BOARD DIMENSIONS

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