FOAM CONTROL®

Foam-Control EPS

NAILBASE

ROOF APPLICATIONS CONSTRUCTION MANUAL

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Please visit www.foam-control.com for the latest information.

FOAM CONTROL®

EPS

NAILBASE ROOF APPLICATIONS CONSTRUCTION MANUAL

When you choose Foam-Control EPS Nailbase, you're collaborating with a team of experts who work with you every step of the way. We're here to answer your questions, solve your problems, and do everything we can to make sure your project proceeds smoothly—and ends successfully.

Foam-Control EPS products are manufactured by a network of licensed manufacturers throughout North America and the world. Foam-Control EPS Nailbase licensed facilities adhere to strict, consistent standards to ensure high-quality.

This network allows us to offer architects, designers and builders the best of both worlds: the resources of the country's largest provider of Nailbase products and systems, and the superior attention and customer service of a local supplier.

Note: Information deemed reliable at time of printing. Please visit www.foam-control.com for the latest information. November 2011.

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General Recommendations

Foam-Control Nailbase Sizes

Foam-Control Nailbase is made in a variety of sizes, most commonly 4' x 8'. Consult the local Foam-Control Nailbase Manufacturer for sizes, thicknesses, and fabrication services available in your area.

Environmentally Safe

The core material for Foam-Control Nailbase, Foam-Control EPS, contains no CFCs, HCFCs, HFCs or formaldehyde and is recyclable. Foam-Control EPS is inert, non-nutritive and highly stable. Your Foam-Control Nailbase Manufacturer encourages you to support recycling and energy conservation.

Warranty

Foam-Control Nailbase Manufacturers provide a 20-year warranty covering thermal performance. Contact the local Foam-Control Nailbase manufacturer for details regarding the warranty program.

Handling - Storage - Protection

Foam-Control Nailbase should be stored in a fully supported manner and protected from weather. Cover stored Foam-Control Nailbase with tarps or similar protective wraps. Exposure 1 OSB facings are used in Foam-Control Nailbase manufacture; however, panels used for roof systems must have temporary roofing applied at the time of installation. Apply finished roofing when immediately practical.

Metal roof systems have inherent properties that may cause Foam-Control Nailbase roofs covered with these materials to become hotter than other roof systems. When installing metal roof systems on Foam-Control Nailbase, additional design considerations may be necessary to protect the roofing underlayment and the Foam-Control Nailbase from excessive temperatures. These design precautions may include the use of a ventilated air space above the Foam-Control Nailbase to minimize temperature exposure. Consult with the Foam-Control Nailbase Manufacturers for local recommendations.

EPS contains a flame retardant additive. However, the EPS should be considered combustible and used with code approved thermal barriers and should not be stored near any open flame or source of ignition. Do not install or use EPS with coal-tar pitch or highly solvent extended mastics, adhesives or sealants. Consult the local Foam-Control Nailbase Manufacturer for suggested adhesives, sealants, and assembly specifications not otherwise detailed in this manual.

General Recommendations - cont'd

Do-All-Ply and Splines

Foam-Control Nailbase is joined using splines. These attachments are made with nails, staples, or screws and Do-All-Ply.

Do-All-Ply is a sealant which is safe for expanded polystyrene foam insulation. Apply the Do-All-Ply in a continuous 3/8" bead as shown in the Foam-Control Nailbase details. This size bead will result in the optimum coating when the plates and splines are installed.

Spline Connection and Do-All-Ply use shall be as specified by the design professional based upon structure design, climate zone, and moisture vapor analysis.

Vapor Retarders

Foam-Control Nailbase may require the use of a vapor retarder to ensure long term durable roof structures. Consult with a local design professional for a recommendation.

Special Treatments

Foam-Control Nailbase can be produced with Foam-Control EPS with Perform Guard that protects the core insulation from potential termite damage. In addition, the OSB facings can be coated with FrameGuard that protects the OSB from mold, mildew and termite damage. Please contact your local Foam-Control Nailbase manufacturer/supplier to learn about specifications for these special treatments.

Perform Guard® TERMITE RESISTANT

FrameGuard® MOLD-RESISTANT WOOD

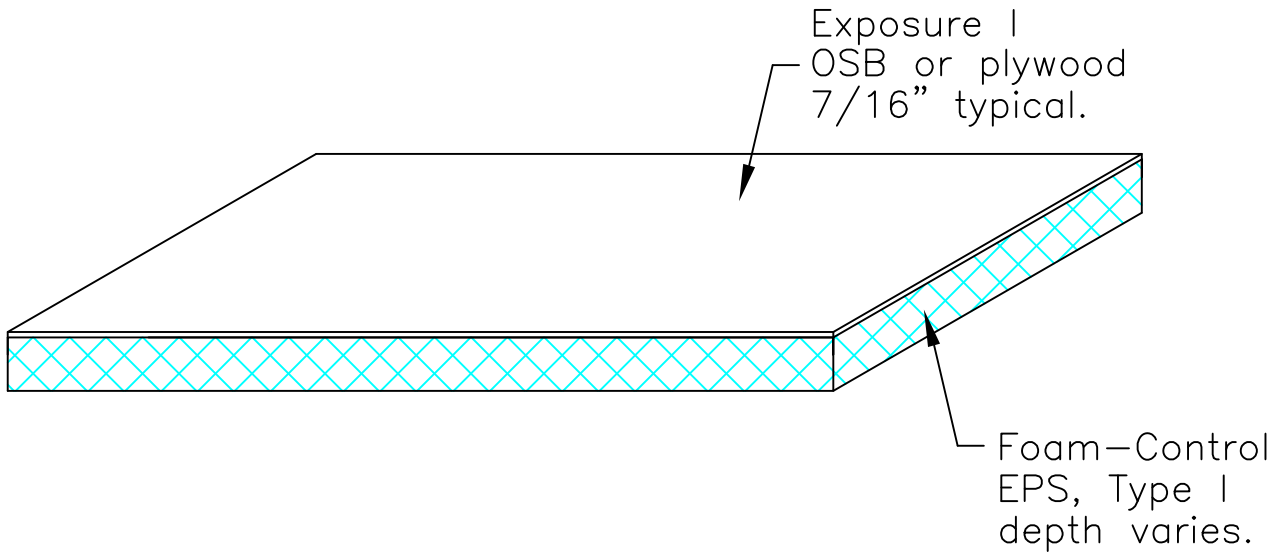
Disclaimer

Details, illustrations, pictures and guidelines provided herein give basic information and illustrate examples of Foam-Control Nailbase installation. The basic information provide herein is not intended to cover every potential use and application of Foam-Control Nailbase. It is the responsibility of the installer to become familiar with his specific application and determine if Foam-Control Nailbase is suitable. By commencing work, the installer accepts full responsibility for the proper and safe installation of Foam-Control Nailbase at his job site. Adding an insulation component may change the behavior of a roof assembly with regard to air movement, water vapor transmittance, bulk water management and heating, cooling and ventilation systems. It is the responsibility of the owner or the owner's representative to design the insulated roof assembly to perform in a manner ensuring function and durability. Furthermore, it is the sole responsibility of the installer to meet all federal and local regulatory requirements for job site safety for himself, his workers and any others on the job site while in the execution of all phases of Foam-Control Nailbase installation.

Foam-Control Nailbase.

Width/Length: 4' x 8' standard.
Thickness: 2", 4", 6", 7-3/4", 9-3/4", 11-3/4" standard.

Custom width, length, and thickness available.



ISOMETRIC

Scale: NTS

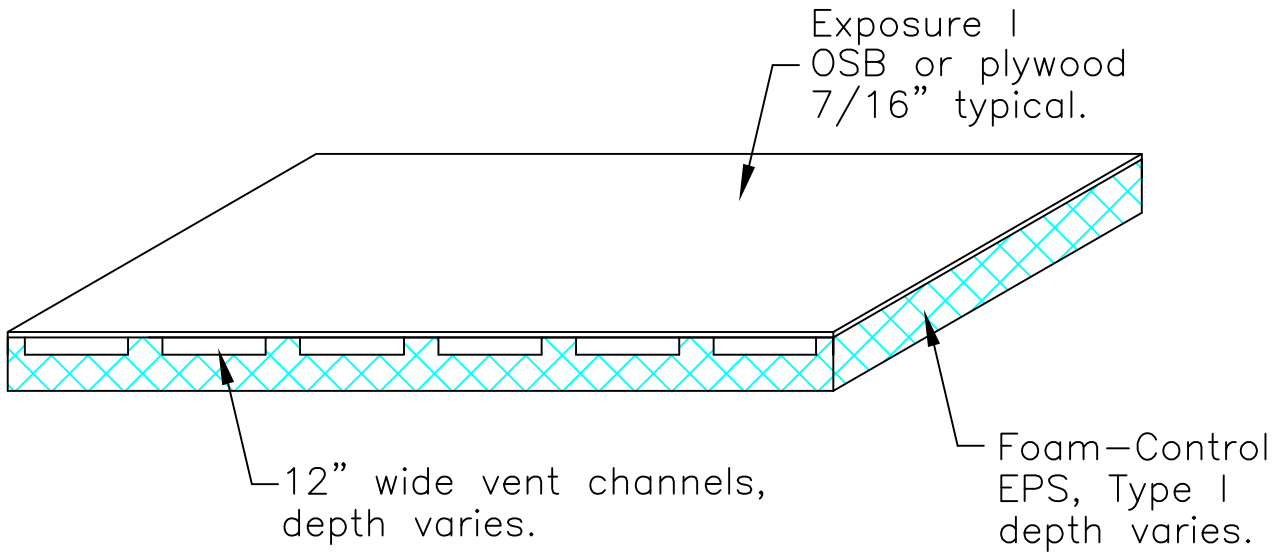
Updated 7-14-11

Foam-Control® Nailbase	
TITLE: Sizes and Dimensions	NO. FC-100

Foam-Control Nailbase Vent-1.

Width/Length: 4' x 8' standard.
Thickness: 2", 4", 6", 7-3/4", 9-3/4", 11-3/4" standard.
Vent Channel Depth: 1/2", 1", 1-1/2", 2" standard.

Custom width, length, thickness, and vent channel depth available.



ISOMETRIC

Scale: NTS

Updated 7-14-11

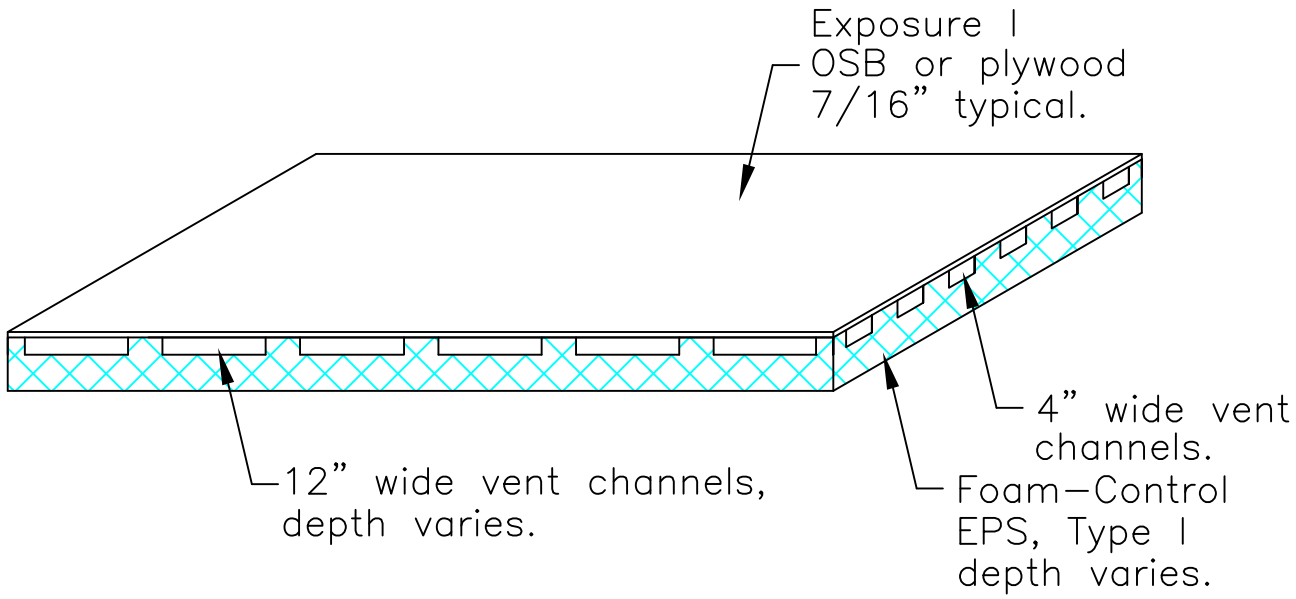
Foam-Control® Nailbase

TITLE:	NO.
Sizes and Dimensions	FC-100a

Foam-Control Nailbase Vent-2.

Width/Length: 4' x 8' standard.
Thickness: 2", 4", 6", 7-3/4", 9-3/4", 11-3/4" standard.
Vent Channel Depth: 1/2", 1", 1-1/2", 2" standard.

Custom width, length, thickness, and vent channel depth available.



ISOMETRIC

Scale: NTS

Updated 7-14-11

Foam-Control® Nailbase

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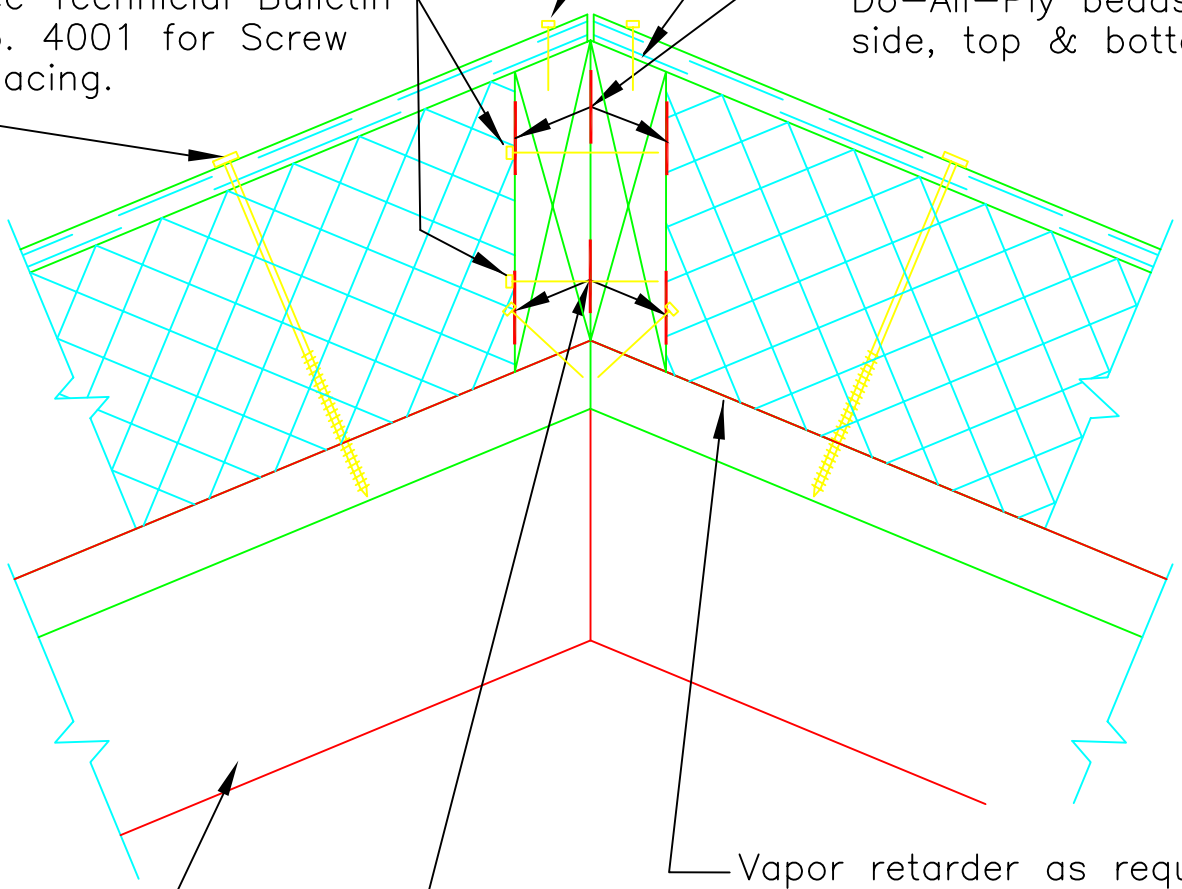
Sizes and Dimensions	FC-100b



SECTION

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Updated 7-16-09

Foam-Control® Nailbase

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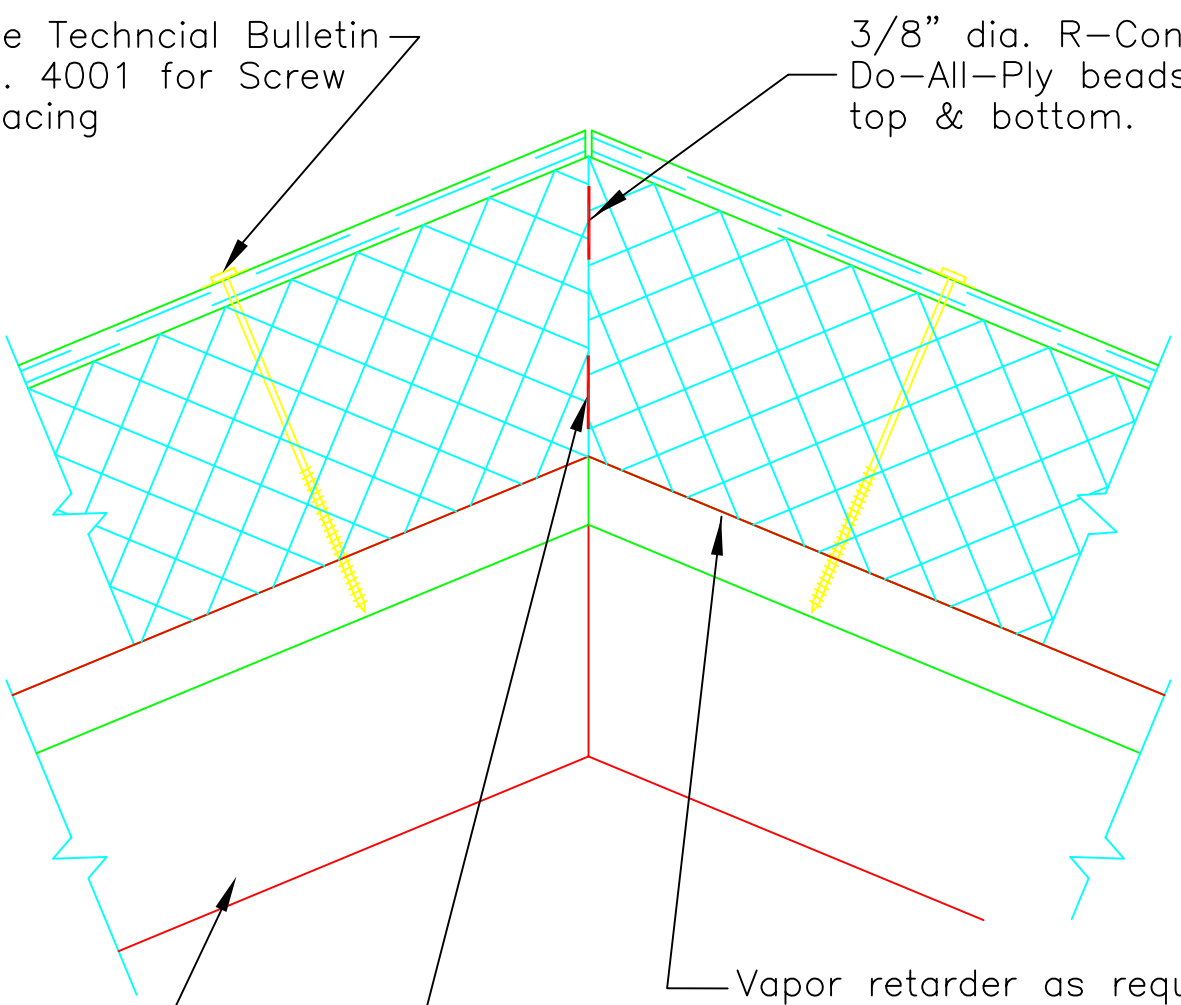
Roof Ridge	FC-101



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Scale: NTS

Updated 7-16-09

Foam-Control® Nailbase

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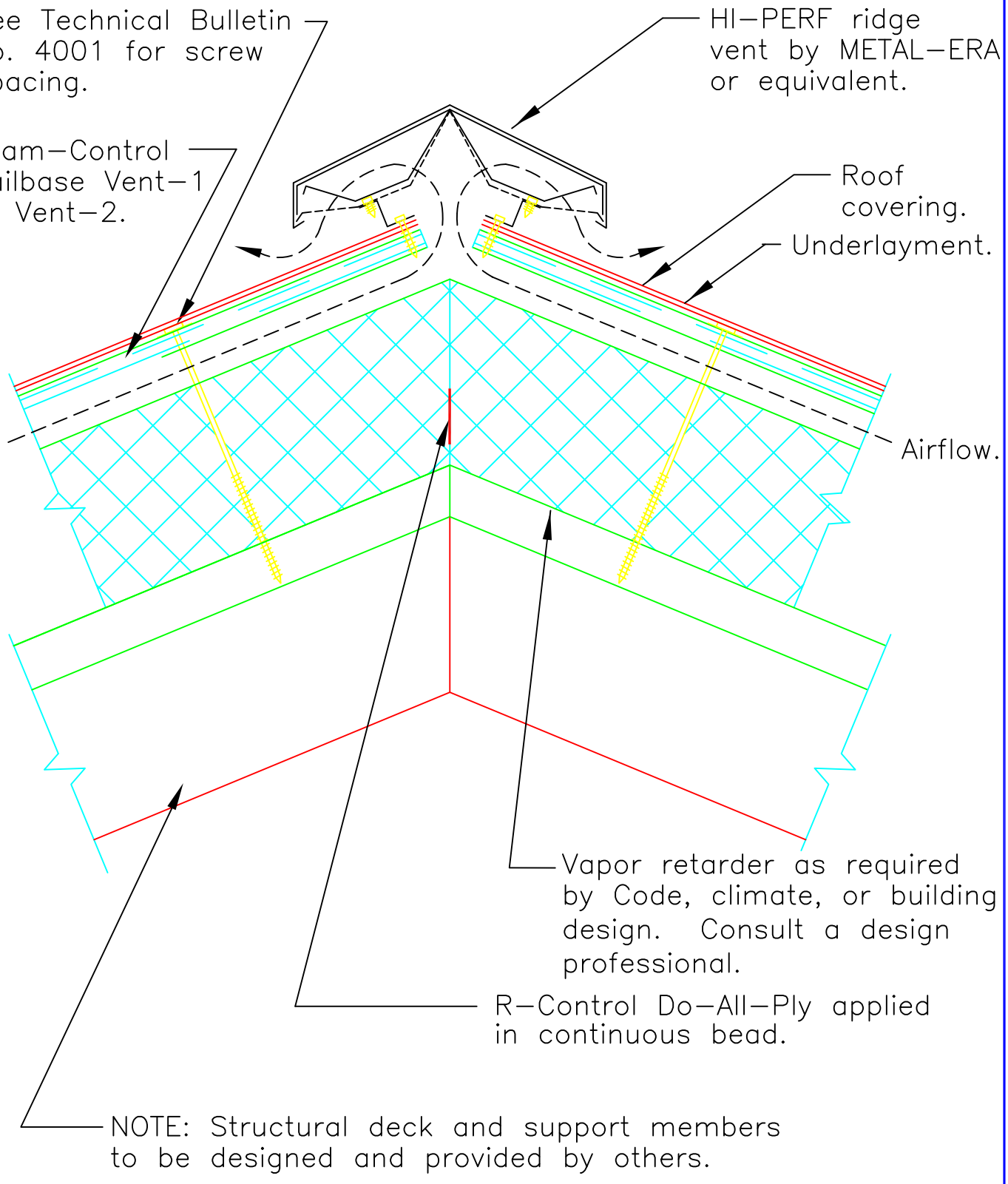
Roof Ridge	FC-101a



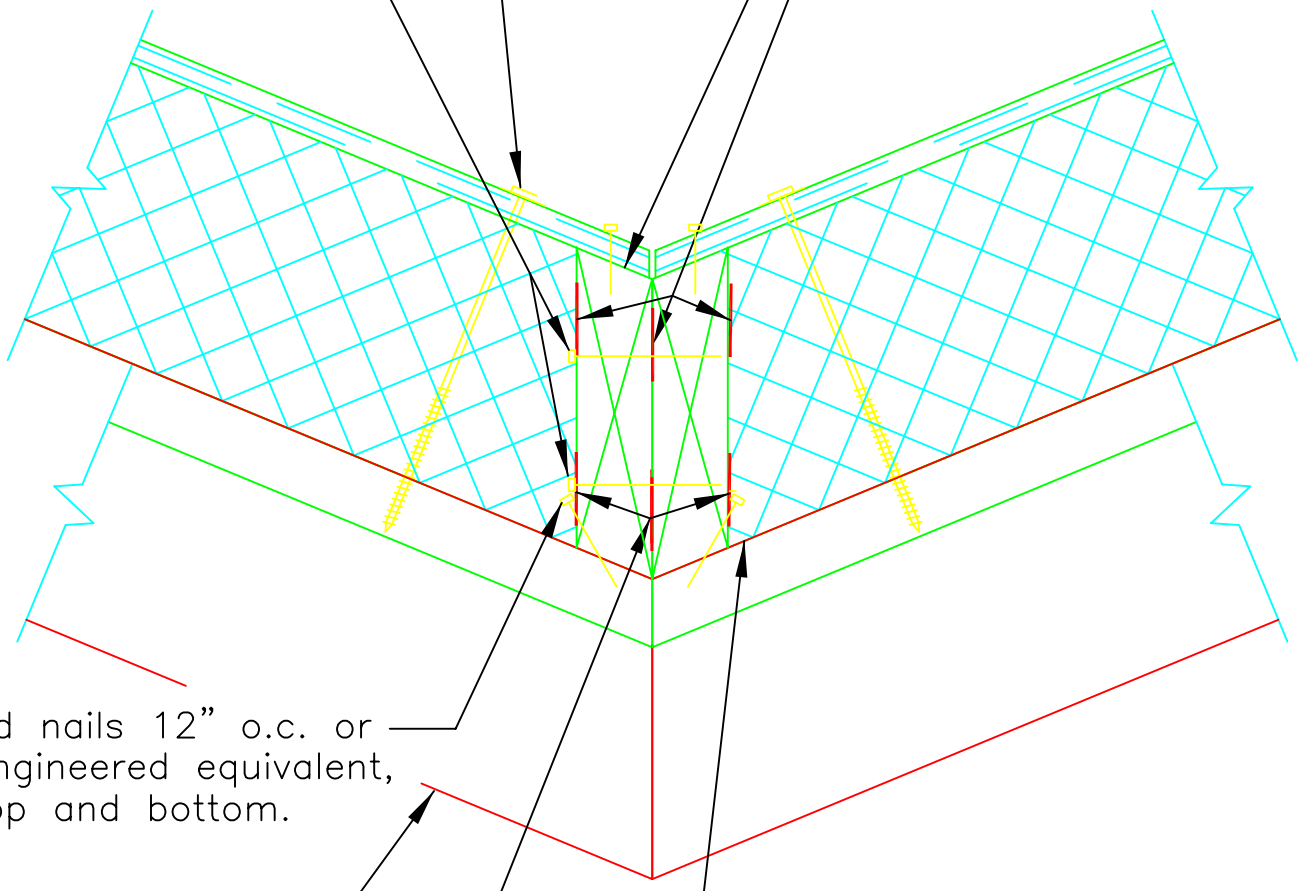
SECTION

Scale: NTS

Updated 7–14–11

Foam–Control® Nailbase

TITLE:	NO.
Vented Roof Ridge	FC–101b



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Scale: NTS

Updated 7-16-09

Foam-Control® Nailbase

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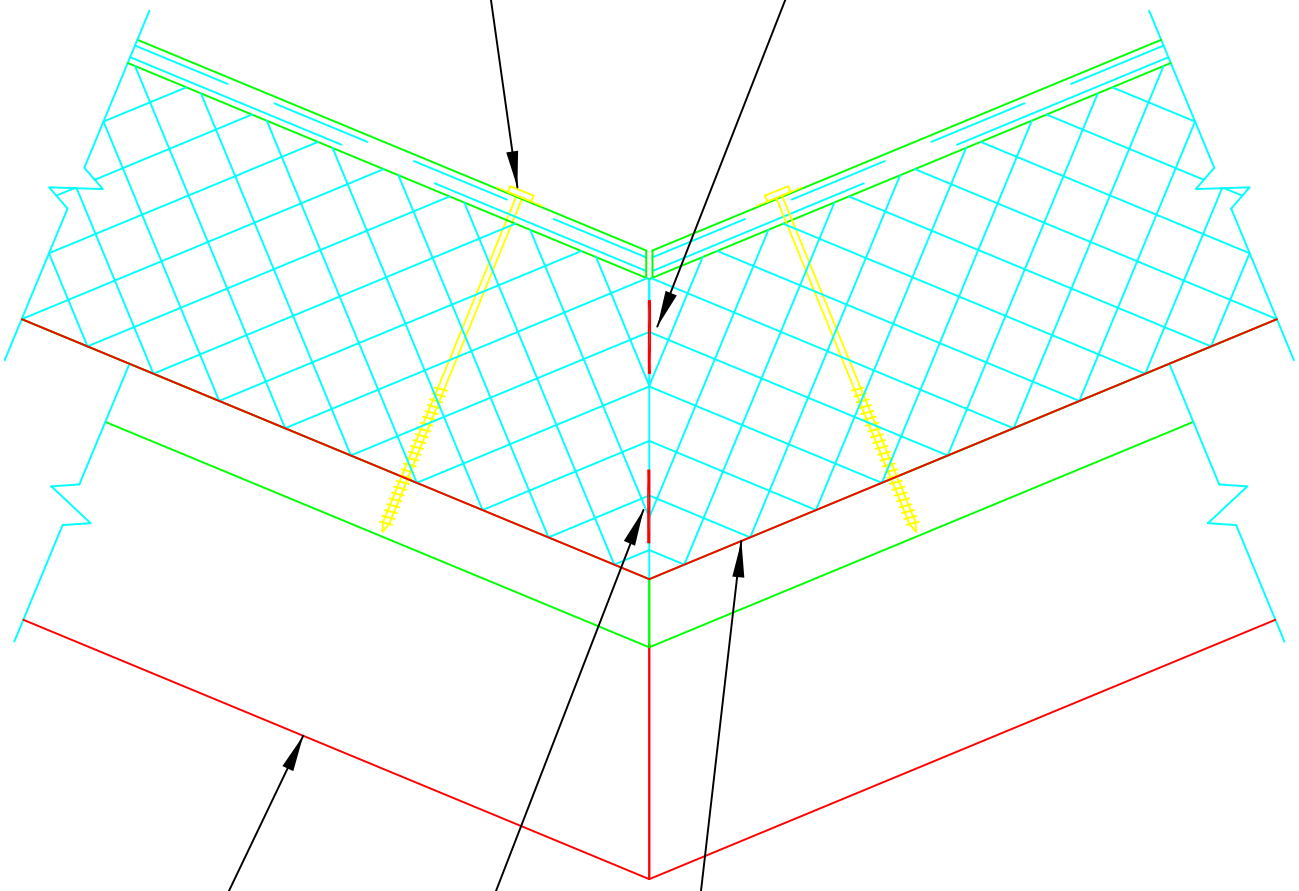
Roof Valley	FC-102



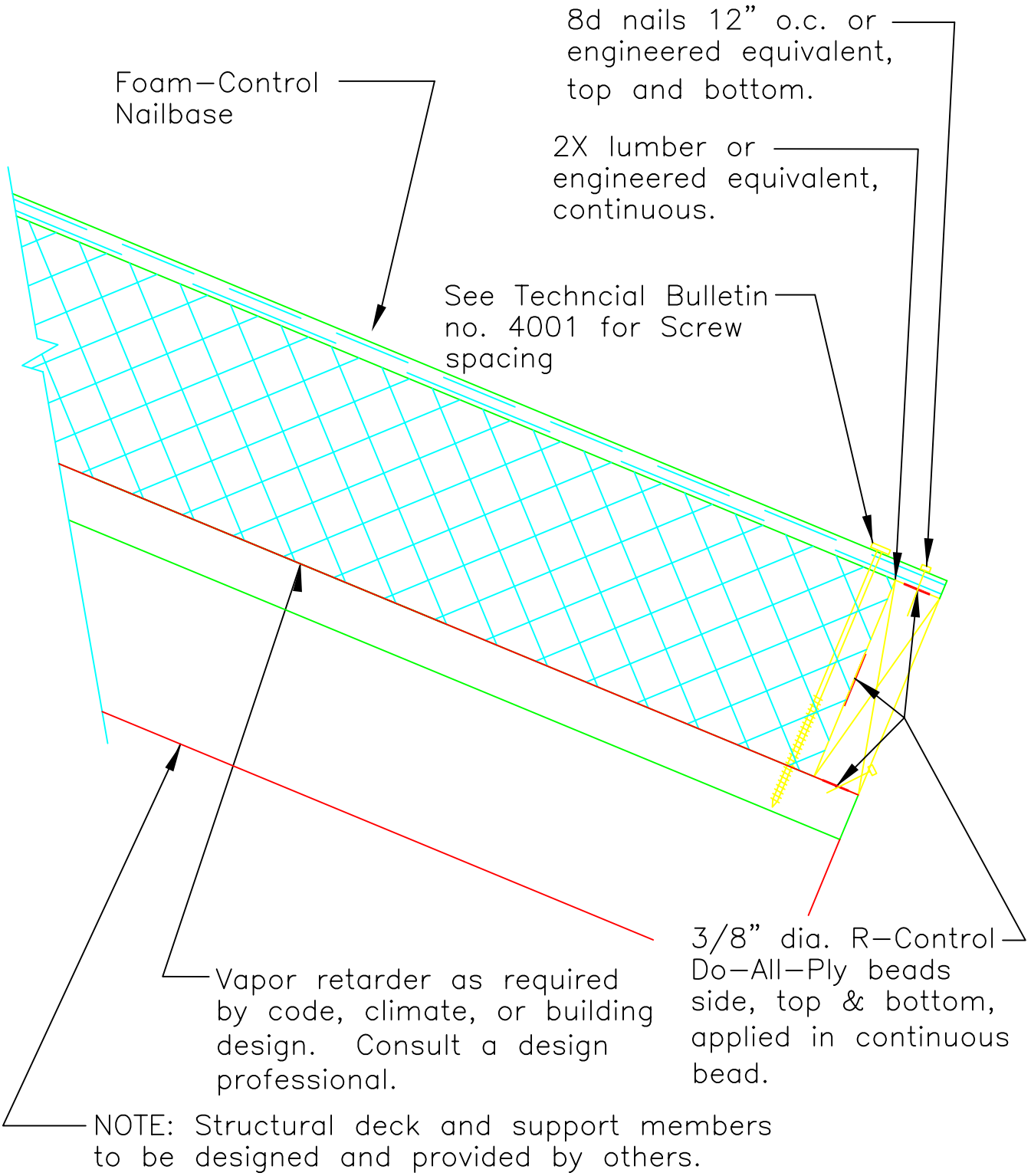
SECTION

Scale: NTS

Updated 7-16-09

Foam-Control® Nailbase

TITLE:	NO.
Roof Valley	FC-102a



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Scale: NTS

Updated 7–16–09

Foam–Control® Nailbase

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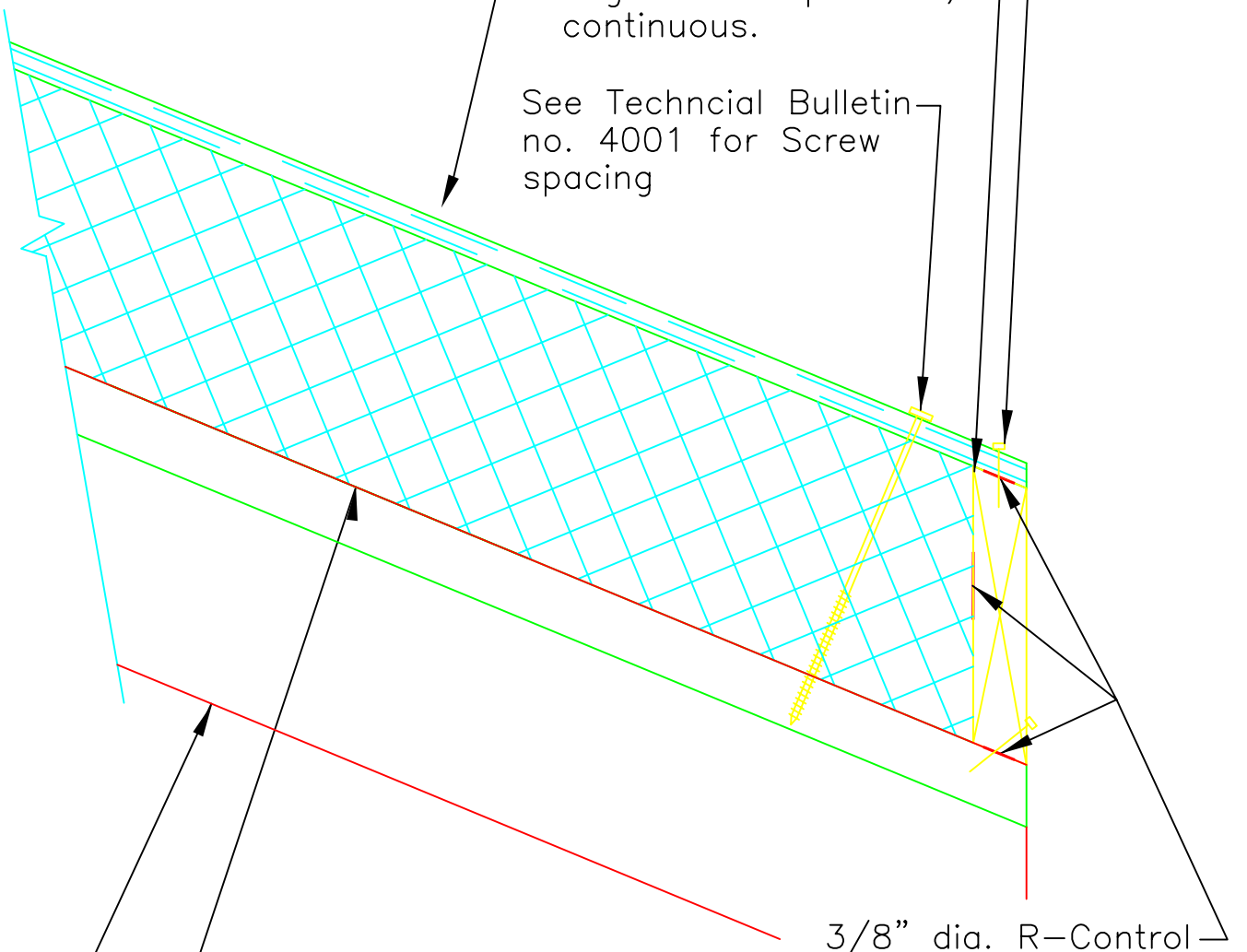
Square Cut Eave	FC–103



SECTION

Scale: NTS

Updated 7–16–09

Foam–Control® Nailbase

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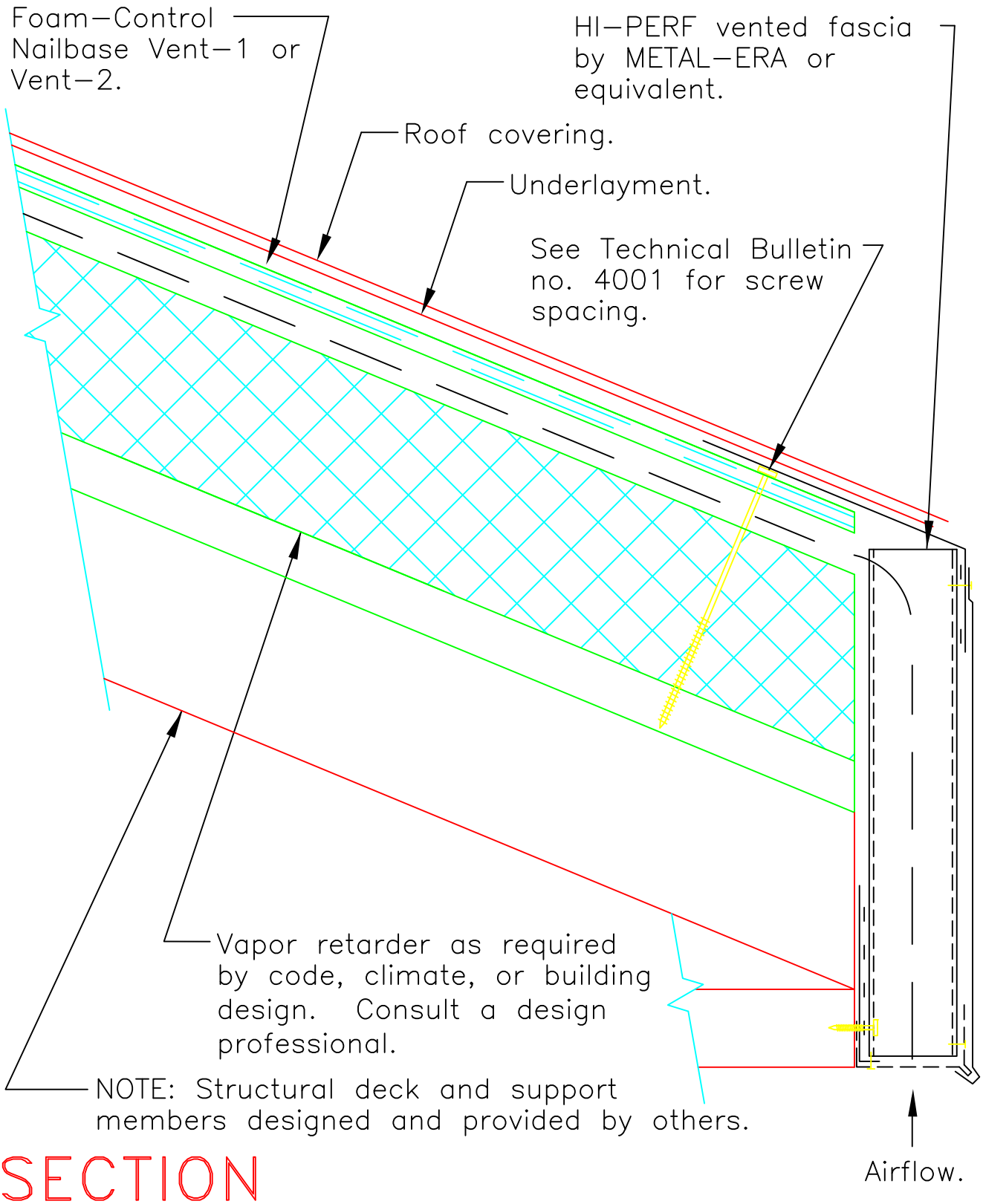
Plumb Cut Eave	FC–103a



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Scale: NTS

Updated 7–26–11

Foam–Control® Nailbase

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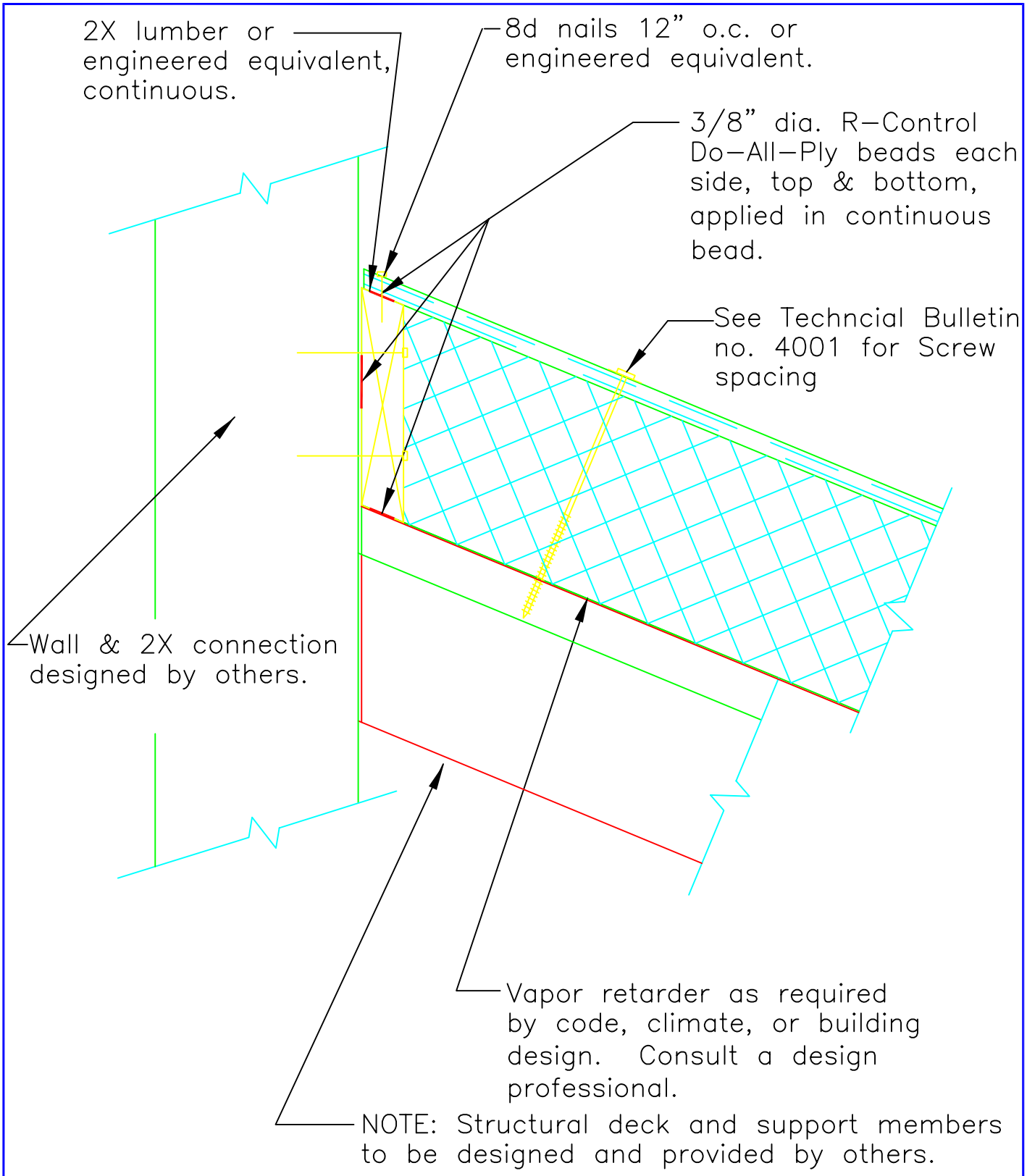
Vented Eave	FC–103b



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Updated 7-16-09

Foam-Control® Nailbase

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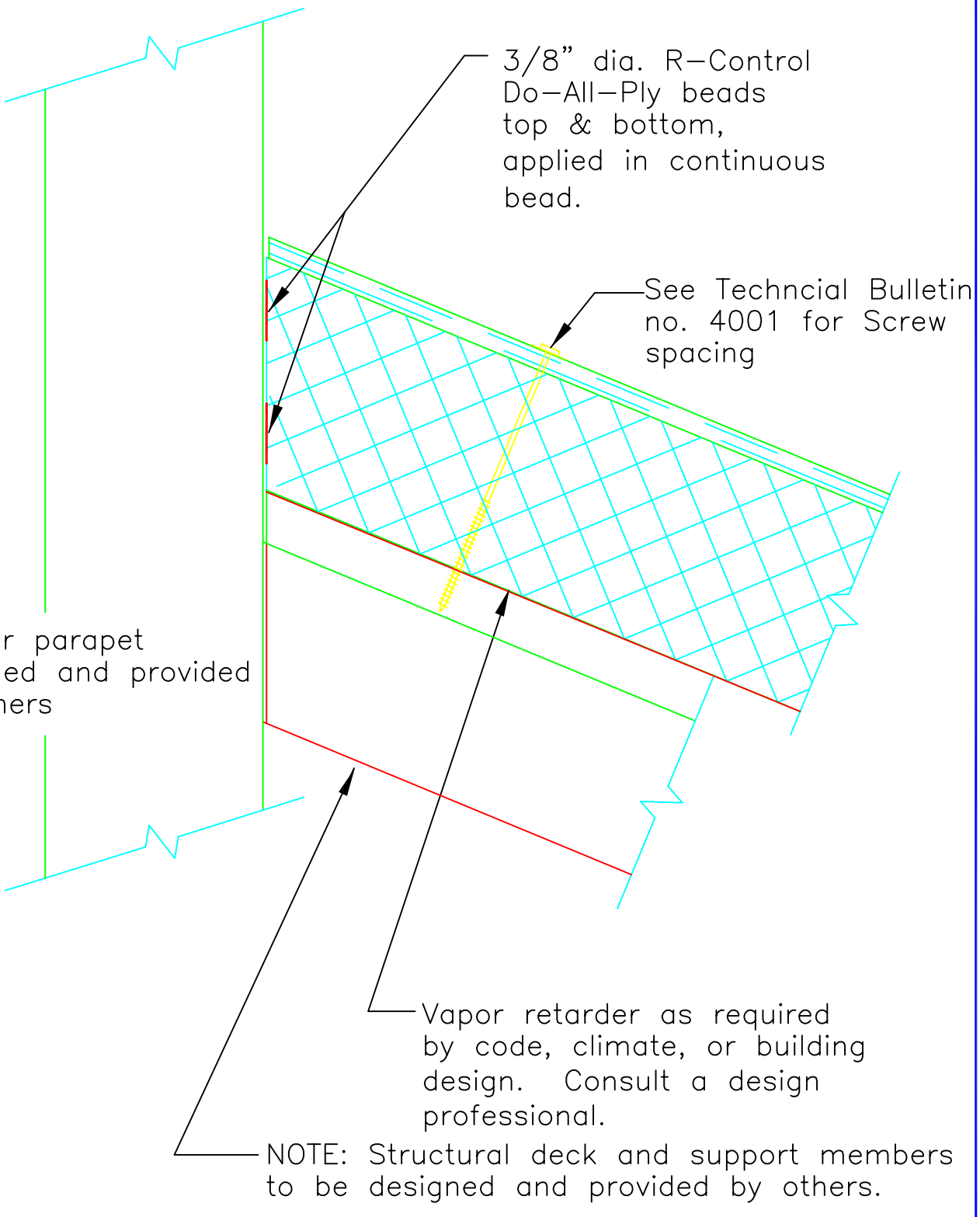
Wall Intersection	FC-104



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Updated 7-16-09

Foam-Control® Nailbase

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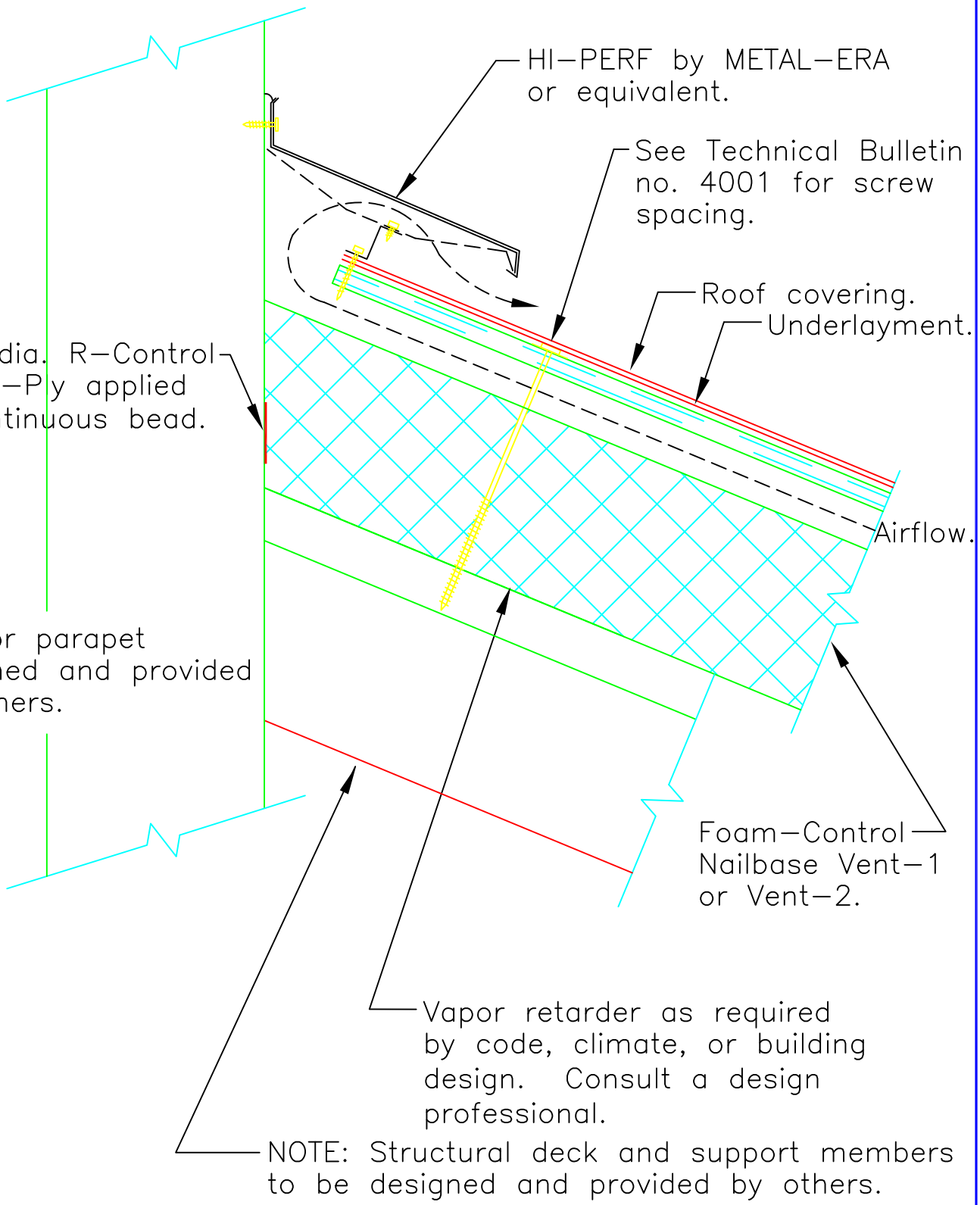
Wall Intersection	FC-104a



SECTION

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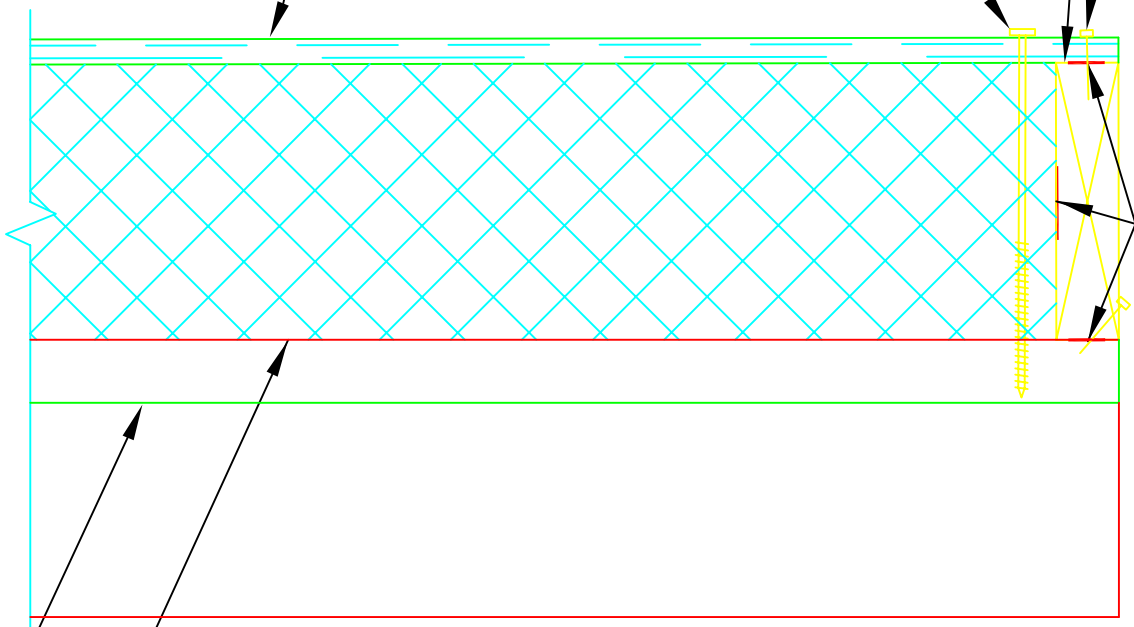
Updated 7–14–11

Foam–Control® Nailbase

TITLE:	NO.
Vented Wall Intersection	FC–104b



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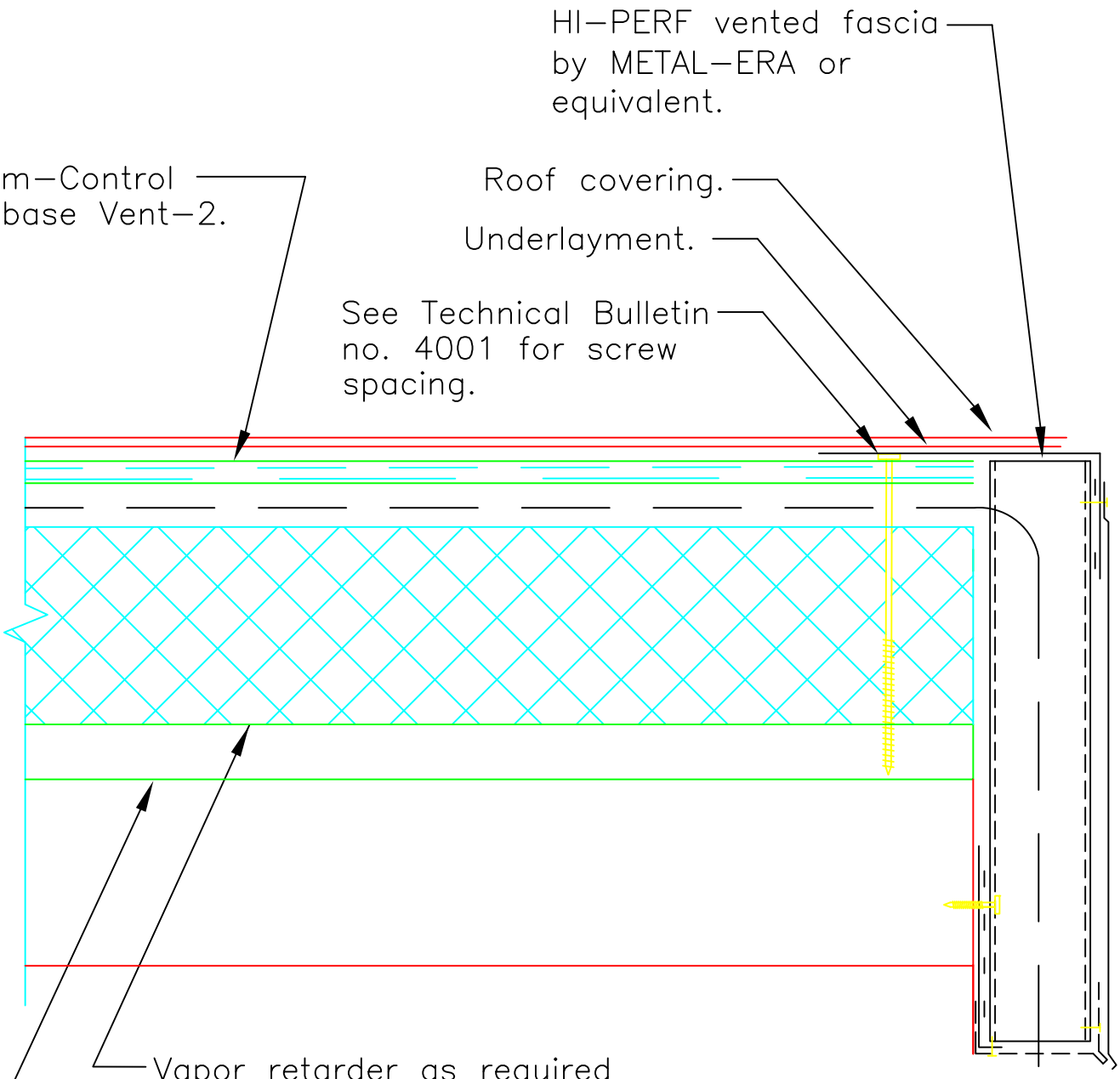
Scale: NTS

Updated 7–16–09

Foam–Control® Nailbase

TITLE:	NO.
Gable End	FC–105



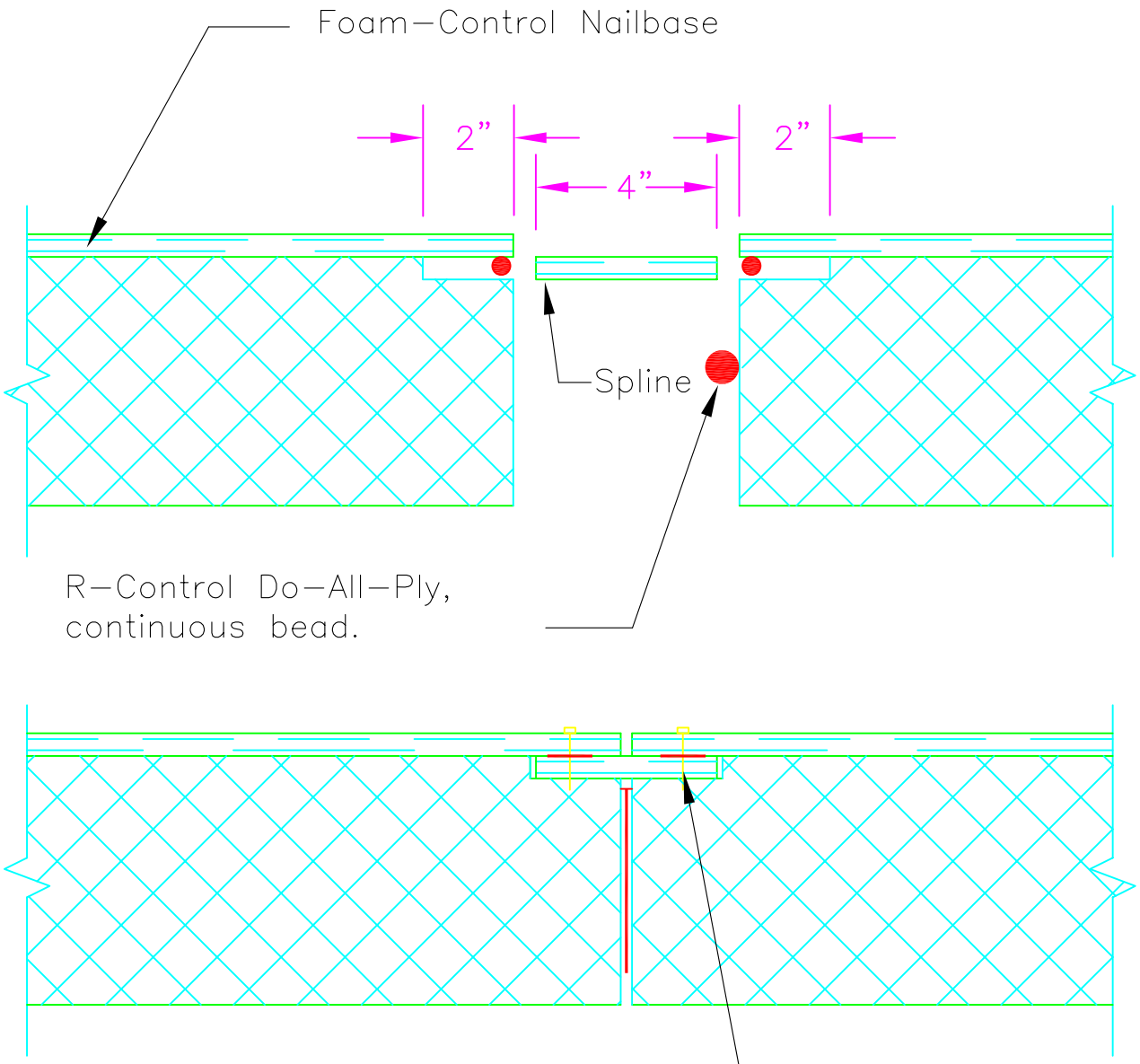
SECTION

Scale: NTS

Updated 7–14–11

Foam–Control® Nailbase

TITLE:	NO.
Vented Gable	FC–105a



Nailing on each side of OSB joint to be:
6” o/c using 8d nails
6” o/c using 14GAx1 1/2” staples
4” o/c using 16GAx1 1/2” staples

Note: Spline material to conform to:
DOC PS2–92, min thickness equal to panel OSB thickness

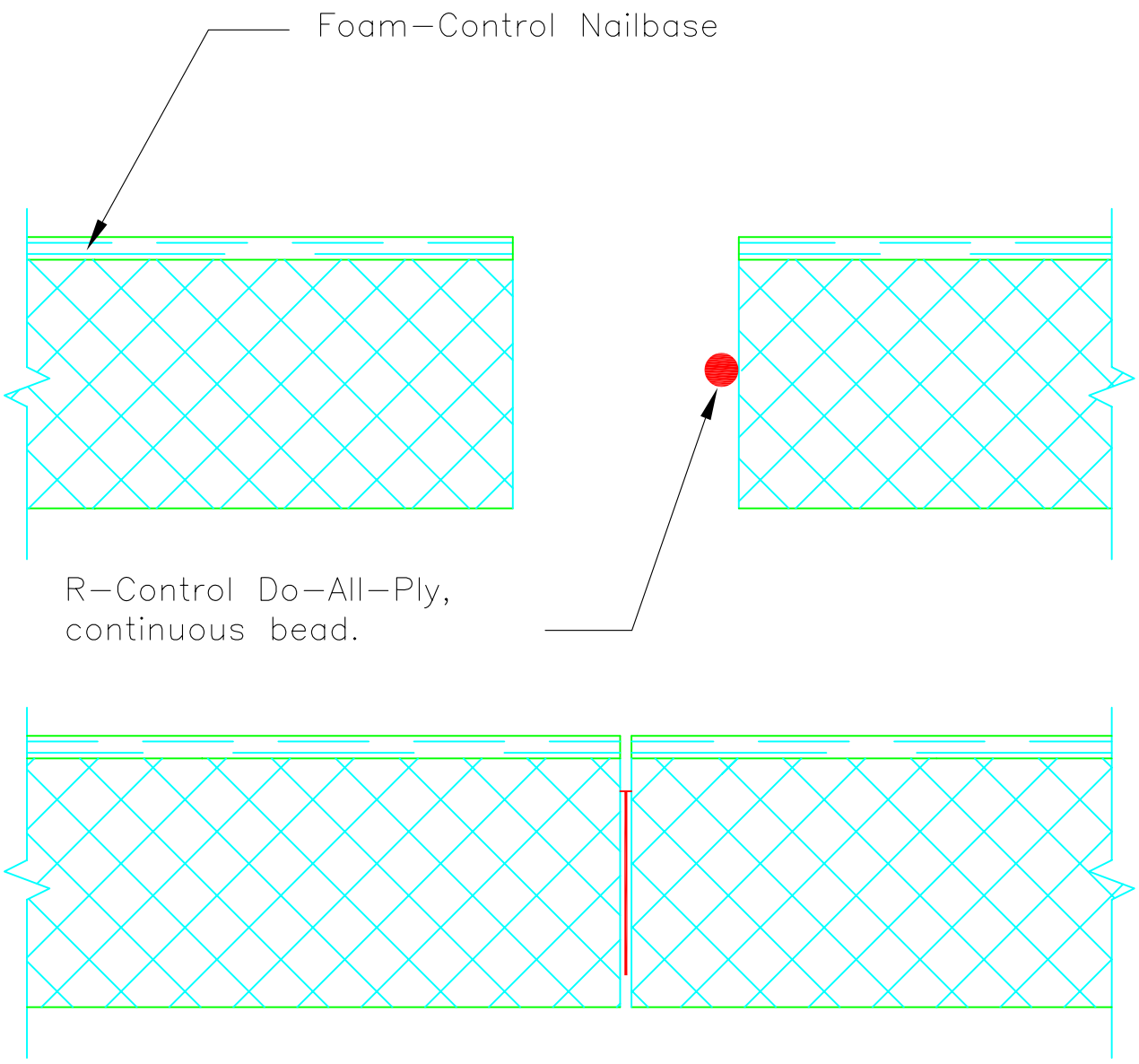
SECTION

Scale: NTS

Updated 7–16–09

Foam–Control® Nailbase

TITLE:	NO.
Spline Connection	FC–106



SECTION

Scale: NTS

Updated 7–16–09

Foam–Control® Nailbase	
TITLE: Butt Connection	NO. FC–106a

FOAM CONTROL EPS

Nailbase No. 4001

Subject: **Foam-Control Nailbase - Fastening Requirements for Sloped Roofs**

Date: **March 2008 (Revised Jan. 2010)**

Minimum fastening requirements for Foam-Control Nailbase have been calculated in accordance with ASCE 7-05 Method 2, Exposure C, Importance factor of 1.0, a maximum roof height of 60 ft. For projects with snow loads and wind speeds in excess of 110 mph, consult a professional engineer for fastening requirements.

Field of Roof

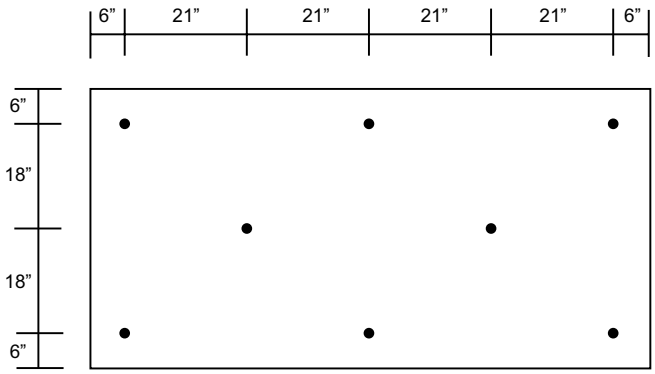
Number of Fasteners for 4' x 8' (1.2m x 2.4m) Nailbase										
Total Load (Snow Load + Dead Load)	Roof Slope									
	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
30 psf	8	8	8	8	8	8	8	8	8	8
40 psf	8	8	8	8	8	8	8	8	12	12
50 psf	8	8	8	8	12	12	12	12	12	12
60 psf	8	8	8	12	12	12	12	12	12	12
70 psf	8	8	12	12	12	12	16	16	16	16
80 psf	8	12	12	12	16	16	16	16	16	16
90 psf	8	16	16	16	16	16	16	16	16	16

Perimeter of Roof

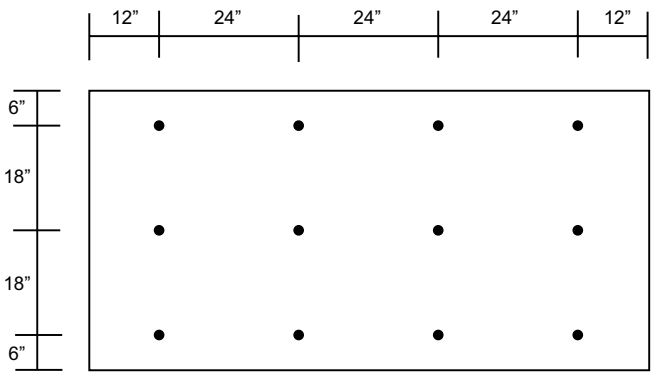
Number of Fasteners for 4' x 8' (1.2m x 2.4m) Nailbase										
Total Load (Snow Load + Dead Load)	Roof Slope									
	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
30 psf	16	16	16	16	8	8	8	8	8	8
40 psf	16	16	16	16	8	8	8	8	12	12
50 psf	16	16	16	16	12	12	12	12	12	12
60 psf	16	16	16	16	12	12	12	12	12	12
70 psf	16	16	16	16	12	12	16	16	16	16
80 psf	16	16	16	16	16	16	16	16	16	16
90 psf	16	16	16	16	16	16	16	16	16	16

The values in the tables are applicable to R-Control Wood Screws when installed into a SPF or equal wood deck (min. 1" pentration) and to R-Control Metal Deck Screws when installed into a steel deck (22 min. gauge).

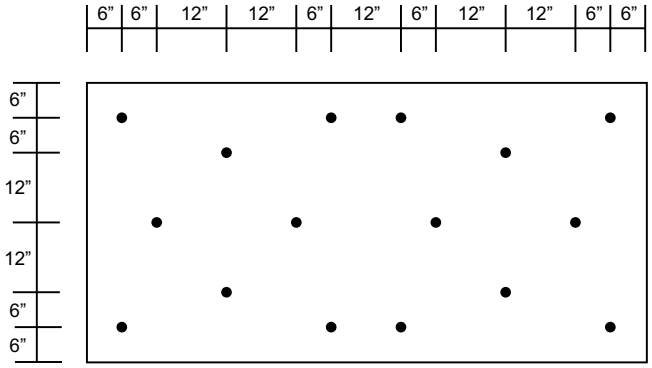
Fastening Patterns for 4′ x 8′ Nailbase



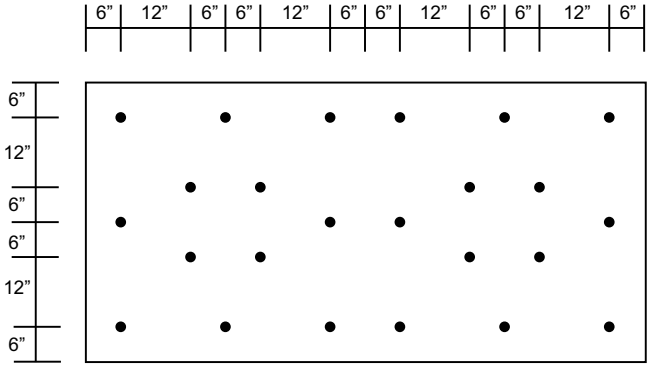
8 Fasteners/Bd.



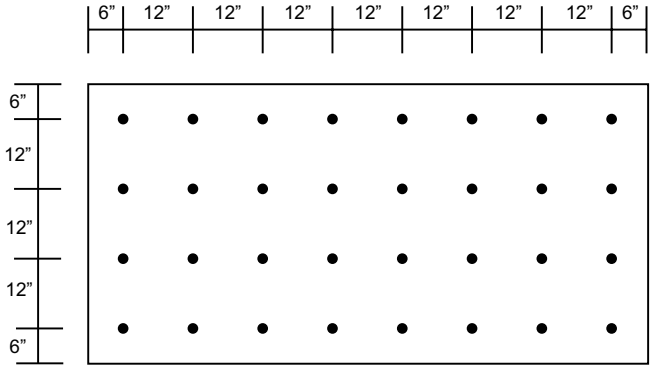
12 Fasteners/Bd.



16 Fasteners/Bd.



24 Fasteners/Bd.



32 Fasteners/Bd.

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FOAM CONTROL EPS

Nailbase No. 4002

Subject: **Asphalt Shingles**

Date: **February 2009**

GAF-Elk, a leader in the manufacture of shingles, has examined the use of their asphalt shingles with Foam-Control Nailbase substrates and have authored the attached Technical Point. GAF-Elk has served notice that their products applied directly over Foam-Control Nailbase and R-Control SIP substrates are acceptable and that no restrictions will be placed on their warranty.

GAF-Elk's shingles are recommended as the preferred asphalt shingle product for use with Foam-Control Nailbase substrates.

When using shingles other than GAF-ELK, please contact your asphalt shingle manufacturer to clarify their warranty coverage when applied over Foam-Control Nailbase and R-Control SIP substrates.

Other asphalt shingle manufacturers have varying levels of warranties when their shingles are applied to all types of insulated roof decks. Some manufacturer's have a concern that a non-vented roof system might cause excessive heat build-up within the shingle, thus reducing the life of the shingle.

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Steep Slope Technical Point

No: I0I-09

TO: *Steep Slope Sales Team, GAF-Elk Contractors, GAF-Elk Distributors.*

FROM: *Contractor Services*

DATE: 01/28/09

SUBJECT: *Acceptable Substrates For GAF-Elk Shingle Applications*

Why Is The Substrate So Important?	**A shingle roof substrate is like the "foundation" for your roofing system.** The substrate provides the smooth structural base on which asphalt shingles are installed. If the substrate is inferior, the integrity of the roofing system may be compromised.
What's Considered A "Standard Deck" For Shingles?	**Standard decks include:** ○ 3/8" Minimum APA labeled exterior grade plywood or OSB decking ○ Nominal 1" thick (min.) x 6" wide (max.) wood planking, with a maximum 1/8" spacing at the ends and sides for new installations, or ○ Nominal 1" thick (min.) x 6" wide (max.) wood planking, with a maximum ¼" spacing at the ends and sides for existing older installations using a double layer of underlayment for light weight shingles such as Sentinel®. ○ Wood planking, nominal 1" thick (min.) x 6" wide (max.) with spacing greater than ¼" at the ends and sides for existing older installations will require an additional layer of 3/8" minimum APA labeled exterior grade plywood or OSB decking.
Can Other Substrates Be Used Without Prior Approval?	**When properly installed and using the fasteners recommended by the deck manufacturer, the following substrates may be used:** • Loadmaster Shingle Deck (except Sentinel® and Timberline® 30 Shingles) • Tech Shield or equivalent Radiant Barrier Decking systems with vapor permeable, perforated foil backing • 2" Minimum Homasote (Homasote Co.) • 2" Minimum Thermasote (Homasote Co.) • 2" Minimum Span Rock Gypsum Plank (USG) – fasteners must have a minimum 40 lbs. of pullout • Vent-Top Thermacal (Cornell) • Vented-R (Atlas) • Vented Nail-Line (Apache) • Hunter Vented Nail Base • R-Control SIP Panel (AFM Corp. Licensed Mfr.) • Foam-Control Nail Base (AFM Corp. Licensed Mfr.) • Huber Zip Deck System – A waterproof underlayment such as Stormguard® must be used at eaves as required by code or for certain warranty considerations and additional underlayment may be needed on slopes less than 4:12 or on re-roofing projects. **Note:** GAF-Elk shingles are not approved for applications directly over any insulation or fiberboard.
What About Codes?	**Roof decks must meet local codes…** and approval from the local building department should be obtained to confirm the deck construction meets local code requirements.
Is The Substrate Or Workmanship Covered Under GAF-Elk's Warranty?	**No. The substrate must be installed in accordance with the deck manufacturer's specifications.** Roof deck installation instructions for specific deck types must be obtained from the respective manufacturer. GAF-Elk does not warrant the installation method, the performance of the decking or problems with the shingles caused by the deck or substrate.
Where Can I Get More Information?	**GAF-Elk Technical Services can assist you…** with these and other questions you may have regarding your new roof installation. GAF-Elk Technical Services can be contacted **at 800-ROOF-411** (800-766-3411). Also, ***the GAF-Elk website is a great resource*** for just about any question you may have or for additional information you may require. That site is at: www.gaf.com

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FOAM CONTROL EPS

Nailbase No. 4003

Subject: **Metal Roof Ventilation with Enkamat 7020**

Date: **September 2009**

The ventilation of metal roofing when installed over Foam-Control Nailbase is a recommended procedure that provides a number of building science benefits.

The primary benefit of venting above Foam-Control Nailbase is the removal of unintended moisture vapor that may emanate from the interior of the building. The venting of moisture vapor between the roof covering and the top of the Foam-Control Nailbase reduces the risk of condensation and the potential of moisture damage. In addition to the venting of interior moisture, any rainwater or melting snow that circumvents the metal roofing materials is also removed by virtue of the ventilation space.

Additional benefits of a ventilation cavity is the reduction in the temperature of the Foam-Control Nailbase upper surface which reduces the cooling loads for a roof system in the summer. Some metal roofing systems, particularly Zinc and Copper, can expose Foam-Control Nailbase roof decks to high temperatures and this reduction of temperature is required. In winter, the ventilated space assists by reducing ice damns when the depth of snow is significant. Impact noise of rain and hail are mitigated as well.

Foam-Control has investigated a unique product that is compatible and works well with Foam-Control Nailbase for above deck ventilation - Colbond's Enkamat 7020. Enkamat 7020 is commonly used in roofing applications to provide the ventilation, drainage, and thermal separation needed for a long service life.

Enkamat 7020 is a three-dimensional mat made of continuous nylon filaments fused at their intersections. The 95% open structure of the entangled filaments facilitates drying of condensed water vapor from the building interior while giving full support to the metal roof. The nylon filaments do not fail under the load of the roof and the rigors of the construction environment, including construction foot traffic. The space created between the Foam-Control Nailbase roof deck and the roof covering will allow moisture to flow away or evaporate.

Enkamat 7020 from Colbond

Testing has been conducted on the temperature difference that Foam-Control Nailbase experiences when ventilated with Enkamat 7020 compared to no ventilation. A standing seam metal roof on a small scale Foam-Control Nailbase roof structure was constructed specifically for this evaluation. Dark standing seam metal roof panels were fixed to the roof over the Enkamat 7020/roofing underlayment combination and this was compared to the metal roof panels over roofing underlayment alone.

The top surface of the metal roofing was brought to a temperature of 194°F (90°C) with the use of infrared heat lamps. This temperature was held for 6 hours to ensure the temperatures through the assembly would stabilize.

Foam-Control Nailbase Ventilation	Temp Reduction From Metal Roof to Top Surface of Foam-Control Nailbase
None	10°F
Enkamat 7020	43°F

The temperature recorded on the top surface of the Foam-Control Nailbase was significantly lower with the use of the Enkamat 7020.

These results cleary demonstrate the effect of an air space on the temperature of an Foam-Control Nailbase roof deck when metal roofing is exposed to high temperatures and solar exposure.

Foam-Control recommends Colbond's Enkamat 7020 as a product that provides the important benefit of easy, cost effective installation with Foam-Control Nailbase and the additional building science benefits of ventilation.

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FOAM CONTROL EPS

NailBase No. 4006

Subject: **Foam-Control Nailbase Vent-1 and Vent-2 Accessory Products**

Date: **July 2011**

Metal-Era, a leader in roof ventilation systems, provides a wide range of ventilation products for roof systems. Hi-Perf ridge vents and Hi-Perf vented fascia are two key products offered by Metal-Era that are suitable for use with Foam-Control Nailbase Vent-1 and Vent-2. Metal-Era offers a wide range of technical service for designing a properly balanced system with appropriate net free area (NFA) to ensure optimum service life.

Metal-Era Hi-Perf ventilation products are recommended as the preferred product for use with Foam-Control Nailbase Vent-1 and Vent-2.

Attached to this bulletin is introductory information on Metal-Era's Intake & Exhaust Roof Ventilation Systems. Please visit www.metalera.com for complete information on Metal-Era products for use with Foam-Control Nailbase Vent-1 and Vent-2.

When using ventilation products other than Metal-Era, please contact the ventilation product manufacturer for installation recommendations and technical support.

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Build in ***Performance***

with Metal-Era's Intake & Exhaust Roof Ventilation Systems

Marcy Townhall | Marcy, NY

Hi-Perf Vented Fascia
Vented Nailbase Version

Hi-Perf Ridge Vent
Slope to Slope Version

Hi-Perf Ridge Vent
Slope to High Wall Version

METAL-ERA®
Airflow Solutions

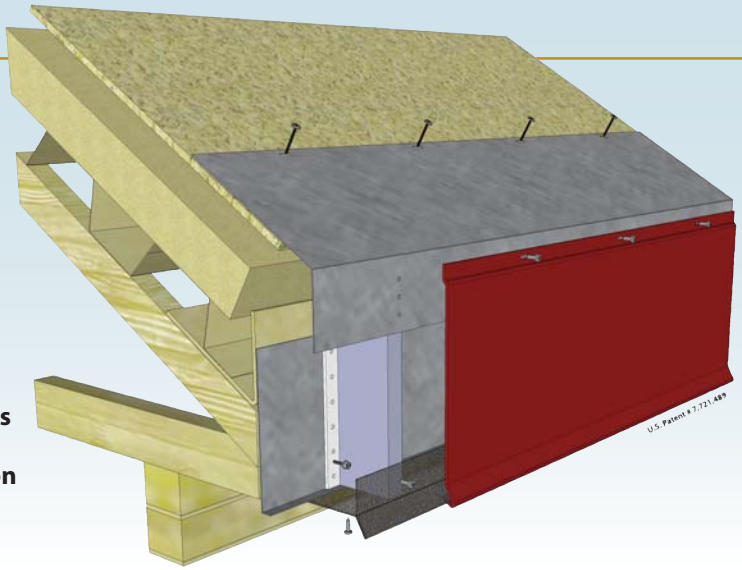
Individually Engineered for Your Project

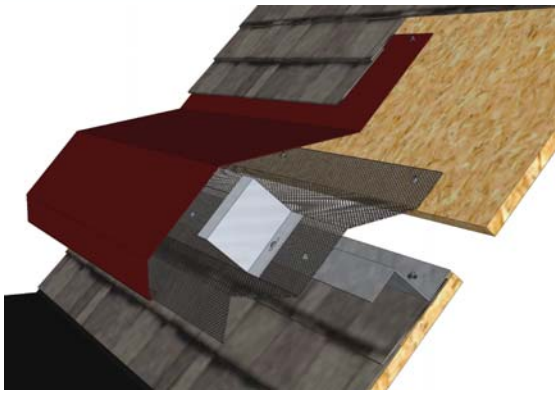
Since 1980, Metal-Era has offered unequaled service in the industry, and has provided a wide selection of engineered roof edge and roof ventilation systems designed to meet the roofing industry's strictest standards. Airflow Solutions was developed to create a standard method of intake and exhaust ventilation for commercial roofs. The Hi-Perf line is the only solution on the market to ensure consistant intake and exhaust airflow underneath the roof covering of commercial buildings.

Intake Ventilation

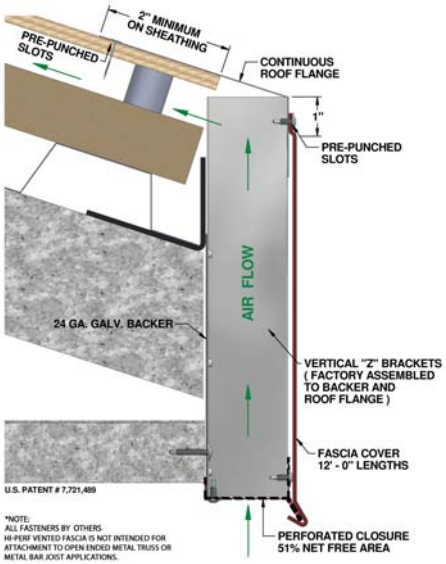
Build in Performance

- **20 Year, 120 mph Warranty - Only Ventilation & Wind Warranty in the Industry**
- **Standard NFAs from 12 in.²/lf to 42 in.²/lf with Custom Designs Available for Larger NFAs**
- **All Metal, Commercial-Grade Design with Multiple Cover Options**
- **Works with All Vented Nailbase & Attic Applications**
- **Supplied in 12' Lengths for Quick & Easy Installation**

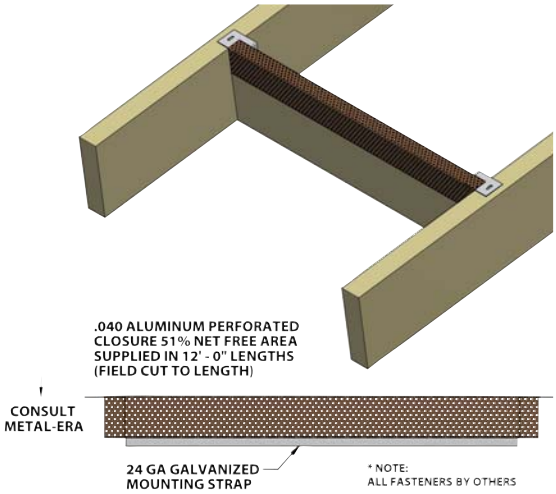




Hi-Perf Intake Vent
for use when eave venting is not possible



Hi-Perf Vented Fascia
Vented Nailbase (shown) & Attic Vented Versions



Hi-Perf Truss Vent

Hi-Perf
Wind & Ventilation
Warranty
120 mph • 20 years

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A Complete, Balanced System

Proper roof ventilation is critical to the **longevity and effectiveness of the roof system**. Commercial buildings have several unique features, including:

- Larger structures
- Longer runs
- Larger surface area of the roof
- Lower pitches
- Larger heating and cooling systems, which are often placed on the roof

All of these characteristics impact the ventilation of the roof and should influence proper product selection.

Achieving **the right amount of net free area (NFA)** for your project will ensure performance and longevity, as well as provide cost savings.

Metal-Era and independent, third-party research confirms that the amount of **air space** underneath the roof sheathing **directly impacts roof performance.** Most products on the market are designed for residential applications. As a result, they often don't provide the necessary amount of NFA for larger structures to create a balanced system with both intake and exhaust venting.

Hi-Perf roof ventilation solutions are **designed to work in harmony with each other to create a balanced system.**

Achieving the proper airflow underneath the roof covering will contribute to a **cool roof system,** providing numerous sustainable benefits, including:

- Lower heating and cooling costs
- Increased life of the roof covering
- The elimination of moisture build-up
- Reduced threat of mold and mildew problems
- The elimination of dangerous and damaging ice dams

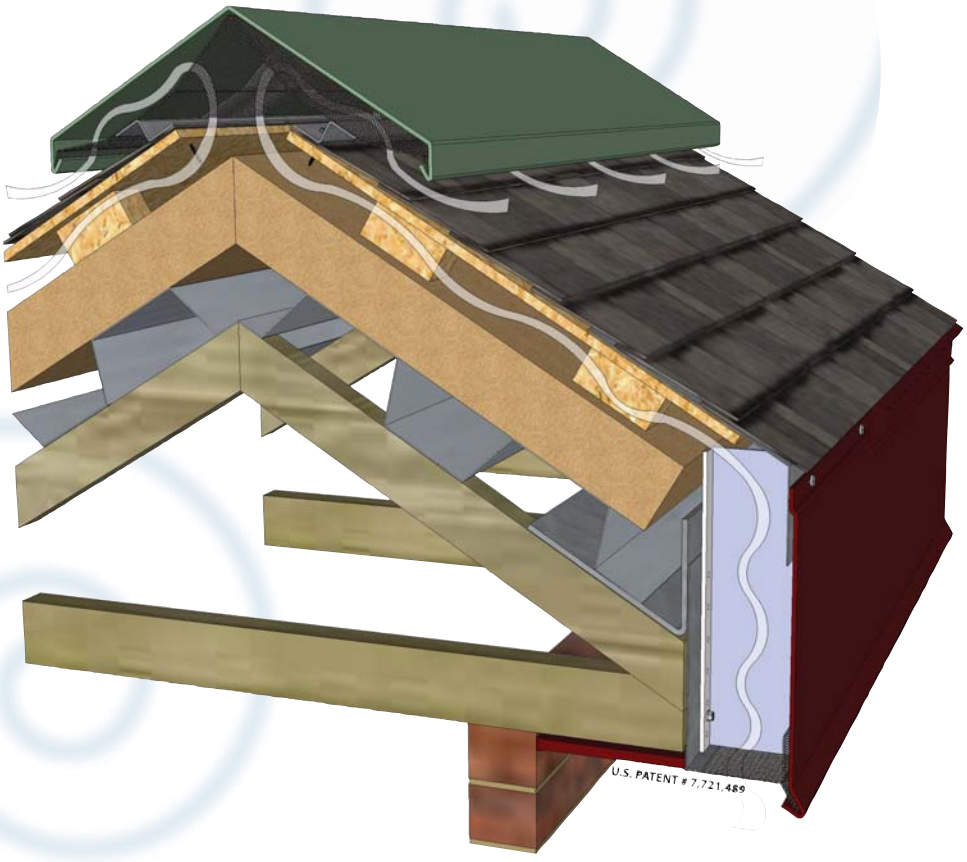
Download our **LEED white paper at www.metalera.com** to learn more about how Hi-Perf Vented Fascia and Ridge Vent can help you earn LEED credits.

For more information, resources and ventilation calculators:

www.metalera.com

Build in Performance

- **Complete Balanced Solution for Commercial Roof Systems**
- **Solutions for Challenging & Unique Designs**
- **NFA is Specifically Calculated to Meet Your Project's Needs**
- **Contributes to a Cool Roof System**
- **20 Year, 120 mph Warranty - Only Ventilation & Wind Warranty in the Industry**

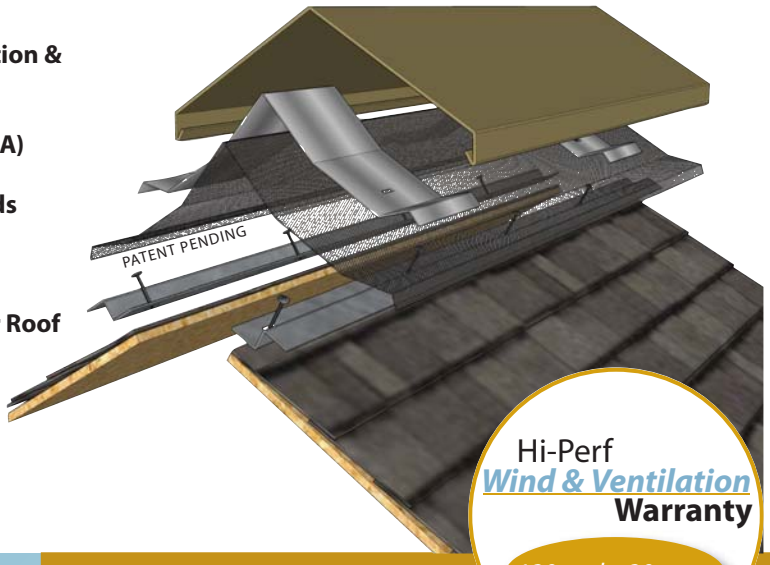


Exhaust Ventilation

Hi-Perf Ridge Vents

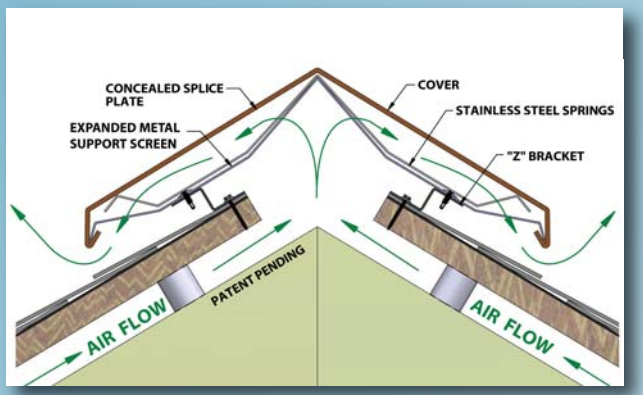
Build in Performance

- **20 Year, 120 mph Warranty - Only Ventilation & Wind Warranty in the Industry**
- **Tested for Wind Driven Rain per TAS 100 (A)**
- **Engineered to Project's Specific NFA Needs**
- **Snap-On Cover**
- **Works with Shingles, Metal Roofs & Other Roof Coverings**
- **Easy Installation with 12' Lengths**

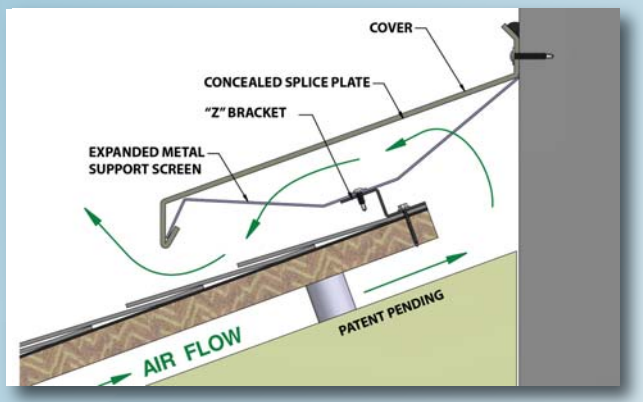


Hi-Perf
Wind & Ventilation
Warranty

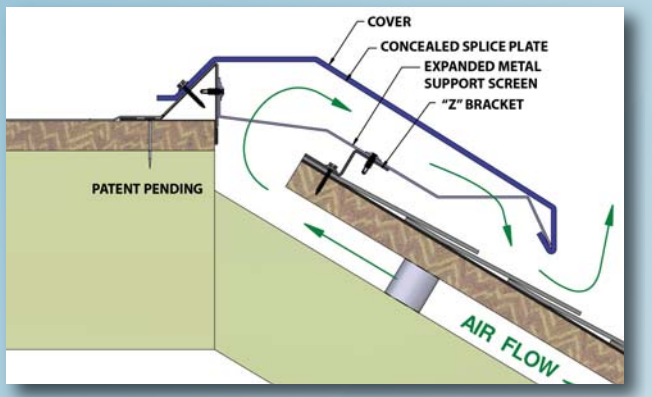
120 mph • 20 years



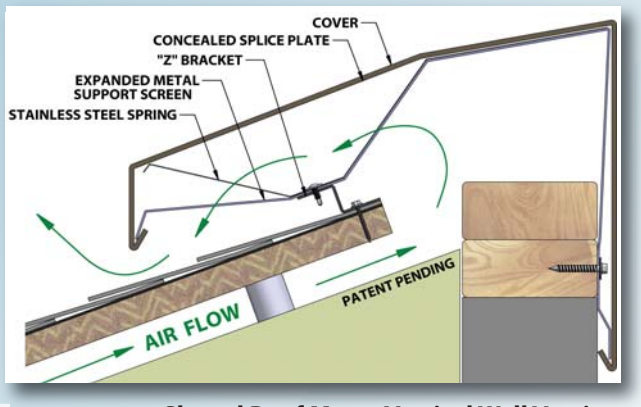
Slope to Slope Version



Sloped Roof Meets High Wall Version



Sloped Roof Meets Flat Roof Version

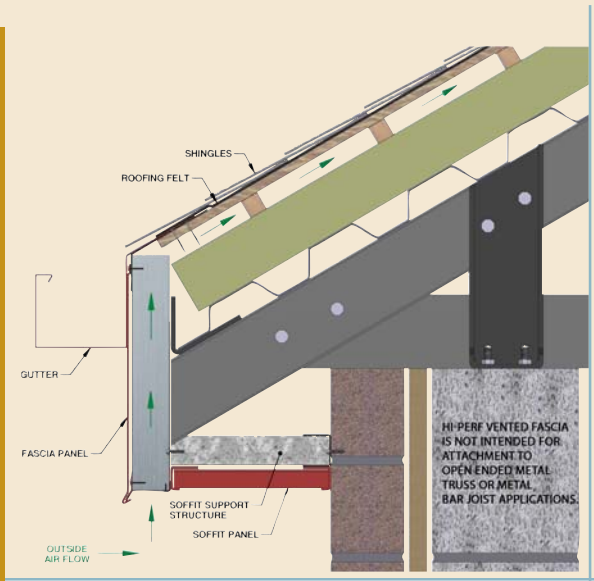


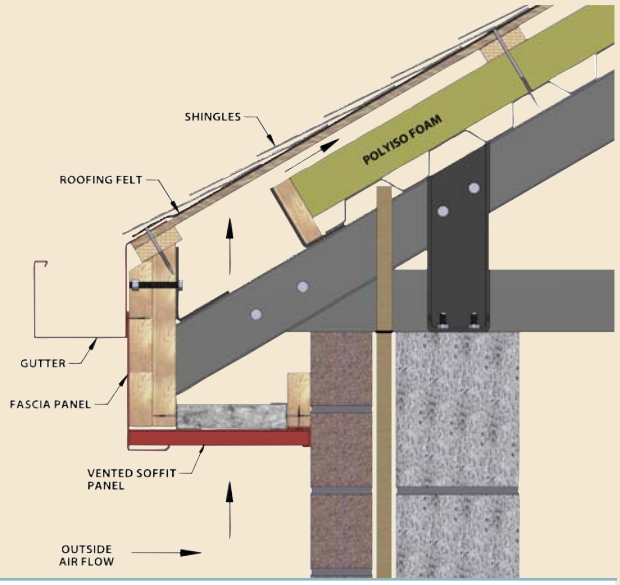
Sloped Roof Meets Vertical Wall Version

THE
ONLY PERFORMANCE WARRANTED SOLUTIONS AVAILABLE

There's No Comparison

When comparing Hi-Perf Vented Fascia to typical eave ventilation details, it's easy to see how Hi-Perf will save you time and money, all the while guaranteeing superior performance. With Hi-Perf you *know* you'll get a solution that works because **Metal-Era builds in performance.**





Hi-Perf Vented Fascia	Typical Construction
Airflow Guarantees proper airflow at the eave for the unique needs of each project, thereby preserving the roof covering by helping create a cool roof system	Results vary depending on construction; no assurances that proper airflow will be provided
Wood Blocking No wood blocking or vented soffits required, thereby reducing costly, inconsistent field labor, and it is non-combustible	Typical wood blocking applications are inconsistent, costly and may be combustible
Trades Reduces the number of trades involved, thus consolidating responsibility	Many trades involved causing decentralized responsibility
Design A single factory manufactured & engineered product serves the needs of multiple products; simple designs for easy installation & consistent performance	Design varies in quality & performance; multiple components & products required
Warranty & Testing Carries a 20 Year, 120 mph Wind & Ventilation Warranty	No warranty available

Hi-Perf Vented Fascia, when combined with Hi-Perf Ridge Vent, is ideal for creating a balanced roof ventilation system.

Increase the longevity of your roof with Hi-Perf.

With design specific engineering, unmatched performance, unbeatable service, easy installation, and an industry leading warranty, ***Airflow Solutions*** will ***simplify your life***.

Request a sample or quote today.

Contacting us is easy, and our knowledgeable staff is here to help.

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Architect: Peter Monterose, McDonald & Monterose Architects

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- COSTS
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- LIABILITY

DON'T COMPROMISE YOUR:

- DESIGN
- ENERGY EFFICIENCY
- STRUCTURAL INTEGRITY
- PROFITABILITY
- QUALITY
- REPUTATION

FOAM CONTROL® EPS

ENERGY STAR PARTNER

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