WALL APPLICATIONS
CONSTRUCTION MANUAL

When you choose Foam-Control 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 products are manufactured by a network throughout North America and the world. Foam-Control Nailbase manufacturers 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.

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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 insulation, contains no CFCs, HCFCs, HFCs or formaldehyde and is recyclable. Foam-Control insulation 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 50-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.

Molded polystyrene contains a flame retardant additive. However, the molded polystyrene 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 molded polystyrene 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

Low VOC Do-All-Ply and Splines

Foam-Control Nailbase may be joined as needed using splines. These attachments are made with nails, staples, or screws and Low VOC Do-All-Ply.

Spline Connection and Low VOC 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 insulation 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.

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.
General Notes

1. Provide adequate support for Foam-Control Nailbase during storage.

2. Store Foam-Control Nailbase flat and protected from weather.

3. Foam-Control Nailbase must be covered with code recognized weather resistive barrier at time of installation.

4. Apply wall covering to Foam-Control Nailbase following wall covering manufacturer recommendations.

5. Fasten trim to Foam-Control Nailbase or wood blocking as required.

6. Attachment of Foam-Control Nailbase shall be with screws into structural members/substrate.

7. Each project shall be engineered as required.

8. Details provided are illustrative examples of Foam-Control Nailbase installation and not intended to cover every potential use and application.
Note: Screw Pattern Illustrated Is Representative. Each Project Shall Be Engineered As Required.

- Blocking
- Existing Wall
- Foam-Control Nailbase
- Blocking
- Screws Into Structural Member/Substrate 16 in. o.c.
- Screws Staggered 2” at Joints

SECTION
SCALE: NTS

Updated 1-6-11

Foam-Control® Nailbase
TITLE: 16 in. o.c.
FRAMED WALL INSTALLATION
NO. FC-201
Note: Screw Pattern Illustrated Is Representative. Each Project Shall Be Engineered As Required.

Existing Wall

Blocking

Foam-Control Nailbase

Blocking

Screws Staggered 2” at Joints

Screws Into Structural Member/Substrate 24 in. o.c.
Note: Screw Pattern Illustrated Is Representative. Each Project Shall Be Engineered As Required.

- Blocking
- Existing Wall
- Foam-Control Nailbase
- Blocking
- Screws Into Structural Member/Substrate

SECTION
SCALE: NTS

Updated 1–6–11

Foam-Control® Nailbase

TITLE: CONCRETE WALL INSTALLATION
NO. FC–201b
Existing Wall

Foam-Control Nailbase
Weather Resistive Barrier

Screws Into Structural Member/Substrate

Wall Covering

Blocking
Minimum fastening requirements for Foam-Control® Nailbase attached to concrete or fully-grouted concrete masonry walls with 1/2” (12.7mm) diameter Titen HD® screws have been developed in cooperation with Simpson Strong-Tie Anchor Systems. Various numbers of fasteners per 4’ x 8’ Foam-Control Nailbase panel provide for a range of allowable loads that Foam-Control Nailbase could support when installed flush over a concrete or fully-grouted concrete masonry wall. Examples of uniformly distributed loads that Foam-Control Nailbase could support include gypsum board or other interior finish materials. Non uniform loads from cabinets, interior fixtures, or plant equipment are not covered in the table and shall be supported using additional fasteners attached to the concrete or fully-grouted concrete masonry wall.

<table>
<thead>
<tr>
<th>Number of Fasteners</th>
<th>Allowable Load, psf (kPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>13 (0.62)</td>
</tr>
<tr>
<td>12</td>
<td>34 (1.63)</td>
</tr>
<tr>
<td>16</td>
<td>52 (2.49)</td>
</tr>
<tr>
<td>24</td>
<td>52 (2.49)</td>
</tr>
</tbody>
</table>

1. Applicable to  4’ x 8’ Foam-Control Nailbase up to 5” thick.
2. The minimum anchor embedment is 2-3/4”.
3. The minimum wall thickness is 8” for fully-grouted concrete masonry and 5” for concrete.
4. For installations in fully-grouted concrete masonry, the minimum distance from the anchor to any vertical mortar joint is 1.5” and the minimum distance to any edge on the face of the wall is 6”. For installations in concrete, the minimum distance to any edge of the face of the wall is 6”.
5. Values do not consider the application of positive or negative pressures (such as wind).
6. Please refer to page 2 of this bulletin for fastening patterns.
7. Building Codes may require special inspection of anchors installed in concrete or masonry. For compliance with these requirements, it is necessary to contact the local and/or regional authority having jurisdiction.

Titen HD® is a registered trademark of Simpson Strong-Tie Anchor Systems.
Fastening Patterns for 4’ x 8’ Nailbase

8 Fasteners/Bd.

12 Fasteners/Bd.

16 Fasteners/Bd.

24 Fasteners/Bd.
Minimum fastening requirements for Foam-Control® Nailbase attached to concrete or masonry walls with 1/4” (4.8mm) diameter Titen® screws have been developed. Various numbers of fasteners per 4’ x 8’ Foam-Control Nailbase panel provide for a range of allowable loads that Foam-Control Nailbase could support when installed flush over a concrete or masonry wall. Examples of uniformly distributed loads that Foam-Control Nailbase could support include gypsum board or other interior finish materials. Non uniform loads from cabinets, interior fixtures, or plant equipment are not covered in the table and shall be supported using additional fasteners attached to the concrete or CMU wall.

<table>
<thead>
<tr>
<th>Number of Fasteners(^6)</th>
<th>Allowable Load, psf (kPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Concrete or Masonry</td>
</tr>
<tr>
<td>8</td>
<td>3 (0.14)</td>
</tr>
<tr>
<td>12</td>
<td>14 (0.67)</td>
</tr>
<tr>
<td>16</td>
<td>30 (1.44)</td>
</tr>
<tr>
<td>24</td>
<td>85 (4.07)</td>
</tr>
<tr>
<td>32</td>
<td>160 (7.66)</td>
</tr>
</tbody>
</table>

1. Applicable to 4’ x 8’ Foam-Control Nailbase up to 5” thick.
2. Minimum anchor embedment is 1” (25.4 mm) and maximum anchor embedment is 1-1/2” (38.1 mm).
3. Concrete must be minimum depth of 1.5 x embedment.
4. Critical edge distance is 1-1/2” (38.1 mm) to edge of concrete or masonry block.
5. Table does not consider positive or negative pressures (such as wind). In cases where this is a design consideration, the use of washers is recommended.
6. Please refer to page 2 of this bulletin for fastening patterns.

Titen® is a registered trademark of Simpson Strong-Tie Anchor Systems.
Fastening Patterns for 4’ x 8’ Nailbase

8 Fasteners/Bd.

12 Fasteners/Bd.

16 Fasteners/Bd.

24 Fasteners/Bd.

32 Fasteners/Bd.
Minimum fastening requirements for Foam-Control® Nailbase attached to concrete with Hilti X-U power actuated fasteners have been developed in cooperation with Hilti. Various numbers of fasteners per 4’ x 8’ Foam-Control Nailbase panel provide for a range of allowable loads that Foam-Control Nailbase could support when installed flush over a concrete. Examples of uniformly distributed loads that Foam-Control Nailbase could support include gypsum board or other interior finish materials. Non uniform loads from cabinets, interior fixtures, or plant equipment are not covered in the table and shall be supported using additional fasteners attached to the concrete.

<table>
<thead>
<tr>
<th>Number of Fasteners</th>
<th>Allowable Load, psf (kPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>15 (0.71)</td>
</tr>
<tr>
<td>12</td>
<td>23 (1.08)</td>
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<tr>
<td>16</td>
<td>30 (1.41)</td>
</tr>
<tr>
<td>24</td>
<td>45 (2.12)</td>
</tr>
</tbody>
</table>

1. Applicable to 4’ x 8’ Foam-Control Nailbase up to 2” thick.
2. The minimum distance from the fastener to any edge of the face of the wall is 6”.
3. Values do not consider the application of positive or negative pressures (such as wind).
4. Please refer to page 2 of this bulletin for fastening patterns.
5. Building Codes may require special inspection of anchors installed in concrete. For compliance with these requirements, it is necessary to contact the local and/or regional authority having jurisdiction.
Fastening Patterns for 4’ x 8’ Nailbase

8 Fasteners/Bd.

12 Fasteners/Bd.

16 Fasteners/Bd.

24 Fasteners/Bd.
Product Availability and Support.

Foam-Control Nailbase is supported by a team of experts who work with you to answer your questions, offer solutions, and do everything they can to make sure your project goes smoothly and ends successfully.

Ready to take control? Start here.

If you're ready to have Foam-Control contribute to your next project, just contact your nearest Foam-Control Nailbase manufacturer and Technical Sales Representative. We will be happy to give you design consultation, information about Foam-Control products, pricing, and answers to all of your questions.

For further information contact us:
Phone: (800) 277-0967
www.atlasfoamcontrol.com