



3A Composites USA, Inc.
Two Harbour Place
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USA

Tel: 877.424.9860
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3ACompositesUSA.com
Fome-Cor.com

Product Description & General Application Instructions - Fome-Cor® Board - For Factory Built Construction Siding Applications

December 27, 2018

Description & Properties: A nominal 1/4" polystyrene accordion-folded foam board with heavy-duty natural kraft liners on both sides. This foam filled housewrap product meets the requirements of both the International Code Council (ICC) as a weather-resistive barrier (ESR-1614), and the HUD code for application as a pressure envelope and backer board for vinyl, metal, wood, or cement siding. Additionally Fome-Cor is ideal for LEAN production methods by reducing installation times over sheet stock type sheathings.

Gauge: 230 mils to 270 mils
Core: Polystyrene foam
Permeance: Greater than 5 for better moisture control
Thermal Performance: R-value of 1
Water-resistance: 24+ hours (ASTM D-779)
Flame Spread = less than 75
Smoke Development = less than 450
Compliant with HUD code (Sections 3280.207/305/502/504/505)
Product Code – natural kraft 420TL48
Product contains no chlorofluorocarbons

No formaldehyde is added to the product during the manufacturing process. Product has been tested to ASTM E1333-96 (2002) and was found to be BDL for formaldehyde. It should be noted the detectable limit of the test method as performed is 0.03 ppm. BDL stands for "Below Detectable Limits" and indicates the test result was below that lower threshold.

Note: Carbon black may be added to the white polystyrene as a colorant. Consequently, the foam at times will appear to be black or gray instead of white. There is no loss in performance or properties due to this colorant.

Material Safety Data Sheet Information:

Fome-Cor is an "article" and no MSDS is required for compliance with the OSHA Hazard Communication Standard (29 CFR 1019, 1200). The standard applies to "chemicals," but it does not apply to an "article". The term "article" is defined in the OSHA warning rule, as a manufactured item: 1) which is formed to a specific shape or design during manufacture, 2) which has end use function(s) dependent in whole or in part upon its shape or design during end use, and 3) which does not release or otherwise result in exposure to a hazardous chemical under normal conditions of use.

Sizes:

Fome-Cor is manufactured in stock size heights of 7.7' (92"), 8.17' (98") and 8.5' (102"). Folding pattern has been improved from the old 24" & 32" pattern to the new 48" pattern for all products. This provides an even flatter surface for siding and metal roofing material. There is for stud or rafter spacings mark provided for 16" oc spacings. Special cuts in truckload quantities are available with an approximate 3 week lead-time. Details of each product are as follows:

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**Fome-Cor® - Wall Application Material
 Natural Kraft Both Sides**

420TL48 – 7.7' (92") (159TL-92704B) Untrimmed ¹ Billed at 90"	420TL48 – 8.17' (98") (159TL-98704B) Untrimmed ¹ Billed at 96"	420TL48 – 8.5' (102") (159TL102704B) Untrimmed ¹ Billed at 101"
7.7' (92") x 704' accordion-folded sheet	8.17' (98") x 704' accordion-folded sheet	8.5' (102") x 704' Accordion-folded sheet
Natural kraft liner both sides	Natural kraft liner both sides	Natural kraft liner both sides
5,397sf per skid Billed at 5,280sf per skid	5,749sf per skid Billed at 5,632sf per skid	5,984sf per skid Billed at 5,925sf per skid
Accordion-folded every 48"	Accordion-folded every 48"	Accordion-folded every 48"
1 sheet to a 7.7' x 48" skid	1 sheet to a 98" x 48" skid	1 sheet to a 102" x 48" skid
24 skids – Flatbed T/L 26 skids – Van T/L	22 skids - Flatbed T/L 24 skids – Van T/L	20 skids – Flatbed T/L 24 skids – Van T/L
126,720sf = Flatbed T/L 137,280sf = Van T/L	123,904sf = Flatbed T/L 135,168sf = Van T/L	118,500sf = Flatbed T/L 142,200sf = Van T/L

**Fome-Cor® - Roof Application Material
 Natural Kraft Both Sides**

420TL48 – 8.5' (102") (159TL98704SB) Untrimmed ¹ Billed at 101"420TL48 - 8'
8.5' (102") x 704' Accordion-folded sheet Score lines provided for a roof to wall wrap-over application at 5" on one side and 10" on the other side.
Natural Kraft Liner both sides
5,984sf per skid Billed at 5,925sf per skid
Accordion-folded every 48"
1 sheet of a 102" x 48' skid
20 skids - Flatbed T/L 24 skids – Van T/L
118,500sf = Flatbed T/L 142,200sf = Van T/L

- trucks vary in size, and the company reserves the right to fill the available truck.

¹Untrimmed material will have some foam extending beyond the liners.

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Product Packaging:

A skid of Fome-Cor Board is covered with protective dunnage material, and then covered with a polyethylene bag. The skid is banded and ready to ship. Skid numbers and run numbers are noted on a sheet that is attached to the dunnage material. Should a complaint arise we need the run # and skid # to help us identify when the material in question was manufactured.

	<p>420TLM32 90x5640 1 Sheet RUN# 3088413 PALLET# 13142</p>
<p>Pallet with poly bag</p>	<p>Product info – Run 3088413 / Pallet 13142</p>

Product Storage:

Fome-Cor Board may be stored outside. The product performance is not damaged by moisture or dirt. General appearance of the product may become weathered, but it does not affect the product's performance. Weathering of the dunnage sheet around the skid does not mean the sheets are weathered or damaged. Inventory on the material should always be rotated. Run #s and/or pallet #s identify age of manufacture. Lower #s indicate older material.

Fastening and Installation Instructions:

Fastening has 5 areas of concentration:

Interval - Depth - Placement - Direction of Fastening - Type

Fastening Interval and Size			
	Non-Corner	Corner*	Size (minimum crown x leg x gauge)
Wind Zone 1	8"	8"	7/16" x 1" x 16 GA
Wind Zone II	4"	3"	1" x 1 1/4" x 16 GA
Wind Zone III	2"	4"	1" x 1 1/4" x 16 GA
* - Corner area Zone III utilizes double studs. Call to request copy of Wind Zone II & III testing.			

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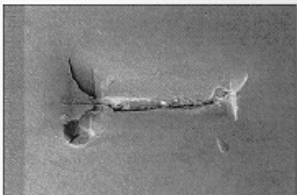
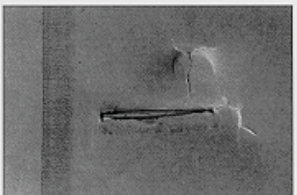
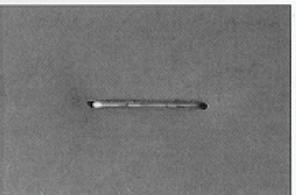
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Fastening Interval and Size (Paslode FasCap Staples)			
	Non-Corner	Corner*	
Wind Zone I	8"	8"	3/8" x 1" x 18 Ga. 3/8" x 1 1/2" x 18 Ga.
Wind Zone II	3"	3"	3/8" x 1" x 18 Ga. 3/8" x 1 1/2" x 18 Ga.
Wind Zone III	2"	4" staggered	3/8" x 1" x 18 Ga. 3/8" x 1 1/2" x 18 Ga.
*- Corner area Zone III utilizes double studs.			

Fastening Depth

The fastener crown for all Wind Zones can be installed at an angle from vertical to horizontal as long as both legs are in the framing member.
 Should a fastener be overdriven, another fastener may be installed beside it.

Fastener crowns that cannot be seen are unacceptable.

Fastening tools should be adjusted to provide the "Best" as the desired depth.

Fastener Placement

Fasteners are placed on the studs, and across the top and bottom plate at the interval shown above for the type of Wind Zone home being built. Example, Wind Zone I homes are fastened every 8" on the stud, and at the top and bottom plates. Wind Zone I homes may utilize a horizontal pattern (commonly called "stitch stapling") of the fastener crown.

Direction of Fastening

Fastening must run in one direction. Fasten from left to right, right to left, or up or down. Never fasten from each end and back to the center, as this will build in a bow. The bow can negatively affect the appearance of the exterior siding.

Fastener Type

For Wind Zone II & III homes the fastener must be 1" crown with a 1/4" leg to comply with testing. For Zone I homes you may use the same 1" crown fastener with 1" leg or a 7/16" with a 1" leg. The 7/16" crown will have less holding capability than a 1" crown, but if the siding is installed the siding fastener retains both the siding and Fome-Cor. The 7/16" tool and fastener seem to eliminate overdriving, getting both legs of the fastener in the stud without slamming the tool against the product.

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The continuously folded Fome-Cor was designed to substantially reduce air and water leakage that enters through normal construction seams created by the exterior materials. Taping or water-resistive paper is not required unless a butt joint is used. All joints can be overlapped a minimum of 1". The overlap can be compressed as described below. Covering the wall-to-wall / wall-to-floor / wall-to-wall connects of the home with Fome-Cor allows the elimination of code required caulking/sealing.

Overlapping and Compressing The Product

Should the installer need to overlap a seam a minimum of 1" is required, and then a tool i.e. hammer may be used to slide down the product and compress the foam. Compressing the edge of the product will eliminate a bulky seam and thereby reducing an undesirable surface defect in the siding. Water-resistive paper may be used to cover a butted seam.



The accordion folds have been redesigned to provide an even flatter surface for the wall siding and metal roof applications. The new 48" folding pattern will lay across 3 stud bays and will have a 16"oc mark to aid in locating studs. Additionally, the installer can press with the palm of the hand to locate studs that may be located at other positions than 16". A vertical mark is provided at 8" intervals to assist in obtaining the required Wind Zone fastening interval. Overall benefits of 48" folding pattern:

- The 48" fold pattern will lay across three 16"oc stud bays which provides an even flatter surface to support the siding.
- Less folds on a home also results in a even flatter application. A 66' home would have a minimum of 24 folds of 32" material, and only 16 folds of the 48".
- When calculating the number of folds it takes to cover the home it is much easier to figure from a 48" (4') interval than a 32".
- There is less initial stapling to hang the product before completing the final stapling to firmly affix the product, which aides in an even faster application.
- Shipping of 48" material is better as skids are square and less top heavy. The previous 32" width with a 48" tall skid had a tendency to want to fall over.
- When ordering the 48" folded material the square footage is the same on a skid as on the 48" Backer Board material.

Fastening penetrations may create points at which air and or water can enter. Manufacturers may want to utilize a broad-headed fastener (i.e., roofing nail) in air or water-sensitive wall or gable areas of the home.

Should an installer need to locate wiring under Fome-Cor Board, simply make an "X" or "U" cut to locate the wire. This does not remove material and the "X" or "U" can be taped or covered with a piece of water diverting paper (diverting paper would have to be cut the height and width of the stud bay). For Wind Zone II & III applications the "X" or "U" cuts must be limited to no more than 6" x 6", and only one per stud bay.

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Taping Information

Tape or taping is a technique that may be used to protect seams or cuts that could occur during application of either product. This is a recommendation not a requirement.

Based on these two performance measures we recommend the following:

- A. Tape adheres to paper/wood.
- B. Tape maintains adhesion in a heat range between 25F and 180F.
- C. Tape maintains adhesion when in contact with liquid water. Consult the water penetration rating for the tape you are considering.

Two types of tapes that are commonly used in a manufacturing facility may work for this technique. Many facilities use a foil-faced tape for HVAC systems, and a tape is also utilized with the repair of Bottom Board. Compare their performance with items A thru C to determine if suitable for this technique.

Product Benefits:

Fome-Cor Board supports siding and improves its deflection feel. This product reduces air leakage and allows moisture vapor to escape (see permeance rating above). Allowing moisture vapor to escape reduces the possibility of moisture condensation, which can lead to dry rot.

Alternate Uses:

Window and door cut-outs should not be thrown away. Fome-Cor Board is an excellent cushioning material that can be used to cover countertops and flooring to reduce damage during construction. Fome-Cor Board may be scored with a dull tool for folding into shipping containers for parts. Don't throw it away; use it!

Product Appearance:





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Sustainability Information:

Backer Board utilizes post industrial recycle foam and liner board that is utilized is purchased from vendors that comply with either Sustainable Forestry Initiative Standard (SFIS), or Forestry Stewardship Council (FSC). Ask for our Care and Conserve™ information.

This Product Description information is located on our website at www.fomecor.com, select Document Library.

For additional information, contact Customer Service at 877-424-9860;
Starr - ext. 7035

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