

Manufacturer:

Georgia-Pacific Wood Products LLC
133 Peachtree Street NE
Atlanta, GA 30303

Description:

The **ForceField® Weather Barrier System** from Georgia-Pacific consists of engineered wood sheathing panels with an enhanced* overlay and accessories that provide a continuous air and water-resistive barrier. Once the panels are installed on a structure and the panel seams are taped with ForceField® accessories such as ForceField Seam Tape, ForceField Seam Tape Plus, and rough openings are treated with Georgia-Pacific AT Flashing, it creates an integrated wall system that is recognized by APA as conforming to IBC, IRC, and IECC standards for a water resistive barrier and air barrier. ForceField Weather Barrier System is an integrated wall system for residential or light commercial construction that eliminates the need for house wrap.**

Primary Uses:

ForceField Weather Barrier System functions as a 3-in-1 system; wall sheathing, water-resistive, and air barrier. The sheathing seams are taped with ForceField brand seam tape to protect the wall from water intrusion.

ForceField Weather Barrier System may be used for walls in International Building Code (IBC) Type V construction permitted in accordance with the International Residential Code (IRC).

ForceField Weather Barrier System can be used under a wide range of attached and rain screen cladding systems. These include cavity brick and claddings such as wood, vinyl, composite siding, exterior insulation & finish system (EIFS), and stucco.

Available Sizes:

- 3'-11 1/8" (1.216 m) x 7'-11 7/8" (2.435 m) – sized for 4' x 8' applications
- 3'-11 1/8" (1.216 m) x 97 1/8" (2.466 m)
- 3'-11 1/8" (1.216 m) x 8'-11 1/8" (2.740 m) – sized for 4' x 9' applications
- 3'-11 1/8" (1.216 m) x 109 1/8" (2.771 m)
- 3'-11 1/8" (1.216 m) x 9'-11 1/8" (3.044 m) – sized for 4' x 10' applications
- 3'-11 1/8" (1.216 m) x 121 1/8" (3.076 m)

Building Code Performance Categories, Panel Thickness:
7/16 CAT, 0.418 (10.61 mm)

Limitations:

Do not use abutted to general stone or masonry without providing a minimum of a 1/2" gap.

Do not install ForceField tape in temperatures less than 20° F or if panel surface has frost or ice.

In wall covering systems requiring multiple layers of water-resistive barriers, ForceField Weather Barrier System is intended to replace only the first water-resistive barrier layer.

For full list of limitations please refer to ForceField Weather Barrier System technical guide on www.gpforcefield.com.

Technical Data:

ForceField Wall Panel meets Exposure 1 – OSB suitable for uses not permanently exposed to the weather. Panels classified as Exposure 1 are intended to resist the effects of moisture on structural performance as may occur due to construction delays, or other conditions of similar severity.

ForceField Wall Panel meets applicable sections of ICC-ES AC 310, Acceptance Criteria for Water Resistive Membranes Factory-Bonded to Wood-Based Structural Sheathing Used as Water-Resistive Barriers, and ASTM D5651 Standard Test Method for Surface Bond Strength of Wood-Base Fiber and Particle Panel Materials.

The ForceField Weather Barrier System was tested in accordance with ASTM E 2357, Standard Test Method for Determining Air Leakage of Air Barrier Assemblies.

ForceField Weather Barrier System is recognized by APA-The Engineered Wood Association Product Report PR-N136 as conforming to IBC, IRC, and IECC standards.

Sustainable Design Contributions:

- No added urea formaldehyde
- ForceField panels are made from wood sourced through a system that is third-party certified to the Sustainable Forestry Initiative® procurement standard
- Regional Materials: ForceField is made in the following locations: Clarendon, SC; Fordyce, AR; Hosford, FL.

ForceField Weather Barrier System Installation

Nailing the Panels: The gray overlay side of ForceField panels should face outside of the frame. Spacing of 1/8" should be maintained at all edges and end joints. Use a minimum 6d common nail spaced 6" o.c. along panel edges and 12" o.c. at intermediate supports. If pneumatic nail guns are used, be sure to set air pressure to drive nail heads flush or a maximum 1/16" below the panel surface to avoid loss of nail holding and shear strength, and to avoid creating a potential point of water entry. Flush mount attachments are recommended when using a pneumatic nail gun. Guidelines are included on the panel surface to aid in locating supports for nailing.

Quick Note: Refer to repair guide on how to treat over driven fasteners.

Alternate method: For use on panels up to 1/2" in thickness – Use 15-gauge staples spaced 4" along panel edges and 8" at intermediate supports, or 16-gauge staples spaced 3" along panel edges and 6" at intermediate supports driven flush with panel surface.

Taping the Panel Seams: ForceField Seam Tape Plus from Georgia-Pacific must be used to seal the seams between sheathing panels. Substitutions are not covered by the Georgia-Pacific limited warranty. For best performance results, immediate sealing of joints with tape is required. Before the application of tape, ensure that the sheathing surfaces are free from frost, moisture, dust, dirt, and other bond inhibiting materials. Center the tape over the seam. ForceField seam tape is a contact tape requiring pressure to adequately seal. Apply firm pressure on the ForceField Seam Tape or Seam Tape Plus with your hand to ensure that a continuous bond is achieved between the tape and the panel surface and to eliminate wrinkles and air bubbles. As a best practice, use a j-roller over the tape after hand application. Whenever tape splices occur, a 2" overlap should be used. Sequence tape application such that the vertical tape is overlying or underlying the horizontal joint tape to ensure a shingle-type application. At T-joints, the tape should overlap by 2".

* Features described here may not be available in all geographic markets. Consult your Georgia-Pacific Company sales office or representative for more information.

** DensDefy™ Liquid Flashing by Georgia-Pacific may also be used for treating rough openings, penetrations, material transitions.

Submittal Approvals

Job Name _____

continued →

Contractor _____

Date _____

Taping or Treating Around Openings, Penetrations, and Material

Transitions: ForceField® Seam Tape Plus or a GP approved alternative must be used around openings, penetrations, and material transitions. Substitutions are not covered by the Georgia-Pacific limited warranty. Always be sure to follow local building code requirements. Use a J-roller to ensure proper bonding contact and smooth out any wrinkles to ensure full tape to panel contact. DensDefy™ liquid flashing is approved for use with the ForceField Weather Barrier System. See additional information on DensDefy™ liquid flashing and DensDefy™ transition membrane at www.densdefy.com.

Storage and Handling*

Handling in Transit: Take precautions to protect panel ends and edges during shipment. If ForceField panels are shipped on open truck beds, cover them with a tarp.

Storage on the Jobsite: Whenever possible, store ForceField panels under a roof. Use pieces of lumber to weight down the top panel in a stack to reduce warpage from humidity. If moisture exposure is expected, cut steel bands on

bundles to prevent edge damage. Outside Storage: If ForceField panels must be stored outside, stack them on a level platform supported by at least three 4x4s to keep them off the ground. Place one 4x4 in the center and the other two 12 to 16 inches from the ends. Never leave panels or the platform in direct contact with the ground. Cover the stacks loosely with plastic sheets or tarps. Anchor the covering at the top of the stack, but keep it open and away from the sides and bottom to ensure good ventilation. Tight coverings prevent air circulation and when exposed to sunlight may promote mold or mildew.

Warranty

For terms and conditions, please refer to Georgia-Pacific's 10 year transferable** limited warranty for ForceField Weather Barrier System available at www.warranty.gpforcefield.com.

* For installation and limitations refer to the ForceField Weather Barrier System Installation Guide.

** Transferable to subsequent building owner only.

ForceField Weather Barrier System Performance Properties

Panel Exposure Durability Classification	DOC PS 2	Exposure 1
Panel Grade	DOC PS 2	7/16 CAT ¹
Water Resistive Barrier	ICC ES AC 310	Meets/exceed requirements
Surface Bond of Overlay to Panel	ASTM D5651	>16 psi
Water Penetration	ASTM E331	Pass
Water Vapor Transmission	ASTM E96 (Water Method)	>2.75 perms for laminated panel
Air Permeance of Assembly	ASTM E 2357	.0009 cfm/ft2@75 pa
Surface Burning Characteristics	ASTM E84	Meets Class III

1. Contact your Georgia-Pacific field representative directly or call 1-866-249-3639 for all available panel grades.

ForceField Seam Tape and Flashing Tape

Seam Tape Evaluation	PSTC 31 Tensile Strength	20 lbs/in (90.4N/25mm)
	PSTC 31 Elongation	130%
	Minimum application temperature	20 degrees F (-6.7 degrees C)
	Maximum application temperature	180 degrees F (82 degrees C)
Seam Tape Plus Evaluation	ASTM D1970 Tensile Strength	1000 PSI
	ASTM D1970 Elongation	600%
	ASTM D1922 Tear Strength	100 grams
	ASTM D3330 Peel Adhesion	Pass
	ASTM D1970 Nail Sealability	Pass
	Minimum application temperature	20 degrees F (-6.7 degrees C)
	Maximum application temperature	80 degrees F (82 degrees C)
AT Flashing Evaluation	ASTM C765 Low temperature pliability	Pass
	ASTM D1970 Nail Sealability	Pass
	ASTM D3330 Peel Adhesion	Pass
	Minimum application temperature	20 degrees F (-6.7 degrees C)
	Maximum application temperature	180 degrees F (82 degrees C)
Flex Flashing Evaluation	ASTM C903 Low Temperature Flexibility	Pass
	ASTM D1970 Nail Sealability	Pass



SALES INFORMATION AND ORDER PLACEMENT
U.S.A.: **866-249-3639**

TECHNICAL INFORMATION
U.S.A. and Canada: **800-225-6119**



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WARRANTIES AND TERMS OF SALE For current warranty information, please go to www.buildgp.com/warranties and select the applicable product. All sales by Georgia-Pacific are subject to our Terms of Sale available at www.buildgp.com/tc.

PRECAUTIONS For product fire, safety and use information, go to www.buildgp.com/safetyinfo or call 1-800-225-6119.

HANDLING AND USE Refer to SDS for instructions on safe handling and use of the product here: buildgp.com/forcefield/resources/.

UPDATES AND CURRENT INFORMATION The information in this document may change without notice. Visit our website at gpforcefield.com for updates and current information.