

Manufacturer:

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

Description:

ForceField® Weather Barrier System from Georgia-Pacific is a roof sheathing and underlayment for use on sloped roofs, ideal for residential, multi-family or light commercial construction

Engineered wood sheathing panels made with DryGuard® Technology* and an enhanced overlay are at the core of this weather barrier system. ForceField® Panels install like standard OSB or plywood sheathing in roof applications. ForceField® Accessories feature an innovative design, working with the panels to help achieve a continuous barrier that can help reduce weather-related interruptions.

When the weather barrier system is used on roofs, it helps keep structures dry, protecting a builder’s investment and reputation during construction and beyond.

Primary Uses:

ForceField Weather Barrier System may be used as roof sheathing for Type III B and Type V B Construction under the International Building Code and, where permitted, by local building codes. Where multiple layers of roofing underlayment are required, the ForceField Weather Barrier System may replace the first layer.

Available Sizes:

3'-11 7/8" (1.216 m) x 7'-11 7/8" (2.435 m) – sized for 4' x 8' applications
3'-11 7/8" (1.216 m) x 97 1/8" (2.466 m)

Building Code Performance Categories, Panel Thickness:
7/16 CAT, 0.418 (10.61 mm) – Span rating 24/16

Limitations:

Do not use abutted to general stone or masonry without providing a minimum of a 1 1/2" gap. Do not install ForceField Premium Tape in temperatures less than 20° F or if panel surface has frost or ice. Where multiple layers of a water-resistive barrier or roofing underlayment are required, the ForceField Weather Barrier System may replace the first layer.

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

Technical Data:

ForceField 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 Panel meets applicable sections of ICC-ES AC 266, Acceptance Criteria for Wood structural panel roof sheathing factory laminated with an alternative roof underlayment, and ASTM D5651 Standard Test Method for Surface Bond Strength of Wood-Base Fiber and Particle Panel Materials.

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
Sloped Roof Installation Instructions

For full installation instructions and details, refer to the full ForceField Weather Barrier System installation manual.

Installing the Panels: When installing the ForceField Panels on the roof, orient the panel so the gray weather barrier side faces out and long direction (8') is perpendicular to the roof trusses or rafters and spans a minimum of three supports. The short edge (4') of the panel should be centered over a framing member and staggered a minimum of 24" from the adjacent panels.

Use a minimum 8d common nail spaced 6" o.c. along and 3/8" from all panel edges and 12" o.c. at intermediate supports and as may be additionally needed to ensure all design criteria and local building code requirements. 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 drive attachments are recommended when using a pneumatic nail gun. Guidelines are included on the panel surface to aid in locating supports for nailing.

Taping the Panel Seams: ForceField® Premium Tape from Georgia-Pacific must be used to seal the seams between sheathing panels. Substitutions are not covered by Georgia-Pacific’s limited warranty. 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 Premium Tape is a contact tape requiring pressure to adequately seal. Apply firm pressure on the ForceField Premium Tape 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. Use a J-roller over the tape after hand application. Whenever tape splices occur, a 2" overlap should be used. Sequence tape application to ensure a shingle-type application. At T-joints, the tape should overlap by 2".

Taping or Treating Around Openings, Penetrations, and Material

Transitions: ForceField Premium Tape 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.

Delivery, Handling and Storage

Handling in Transit: All ForceField Weather Barrier System materials shall be delivered in their original bundles or packaging. The plastic packaging used to wrap wood sheathing products for rail and/or truck shipment is intended to provide temporary protection from moisture exposure during transit only and is not intended to provide protection during storage after delivery. Such plastic packaging shall be removed immediately upon receipt of the shipment. Failure to remove protective plastic shipping covers can result in condensation, which can lead to damage.

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

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

Submittal Approvals

Job Name _____

continued →

Contractor _____

Date _____

Storage on the Jobsite: Whenever possible, store ForceField® Panels under a roof. Use pieces of lumber to weigh 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. Panels should be removed from the shipping bags for storage.

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 limited warranty for ForceField Weather Barrier System available at www.warranty.gpforcefield.com.

ForceField® Weather Barrier System Performance Properties

Panel Exposure Durability Classification	DOC PS 2	Exposure 1
Panel Grade	DOC PS 2	7/16 CAT ¹
Roof Underlayment	ICC ES AC 266	Meets 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/ft ² @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® Premium Tape

Premium Tape Evaluation	ASTM D412 Meth A	1072 PSI
	ASTM D1970 Elongation	800%
	ASTM D3330 Peel Adhesion	Pass
	ASTM D1970 Nail Sealability	Pass
	Minimum application temperature	20 degrees F (-6.7 degrees C)
	Maximum application temperature	180 degrees F (82 degrees C)



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.