



BUILDING ENVELOPE PRODUCTS CATALOG

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Note: Beyond the product(s) shown here, the E2I team is able to source additional options to fit the budget, spec, and scope of your project.





DuPont™ Tyvek® DrainWrap™

DuPont™ Tyvek® DrainWrap™ is a moisture barrier designed to provide enhanced drainage in areas subject to extreme, wind driven rain.

It combines the superior air and water resistance, vapor permeability and strength of Tyvek® with a vertically grooved surface, to help channel water safely to the outside.

How It Works

Tyvek® DrainWrap™ helps provide enhanced drainage behind claddings such as primed wood (all six sides), fiber cement siding, and foam board applied over flat substrates. Vertical grooves on the surface of Tyvek® DrainWrap™ make it a superior moisture barrier, engineered to channel bulk water away from wall systems and drain safely to the outside.

The unique material structure of Tyvek® DrainWrap™ helps hold out bulk water, while allowing water vapor to pass through it, promoting drying in the wall system, which can help prevent mold and water damage.

The unique non-woven fiber structure of Tyvek® DrainWrap™ also helps prevent air movement through the walls, contributing to a more energy efficient home.

Five Key Benefits

Tyvek® DrainWrap™ protects against water damage, and can help improve both comfort and energy efficiency, by providing five important benefits:

- High level of water resistance — to help protect the wall cavity from water that can get behind the cladding.
- The optimal level of vapor permeability — to promote drying in wall systems and help prevent rot and mold.
- High level of air resistance — to help prevent drafts, resist the flow of moisture-laden air through wall cavities, and ultimately help reduce energy bills.
- Durability — to withstand the rigors of the construction site, and provide the ability to maintain a constant drainage rate, even after repeated wetting and drying cycles.
- Improved drainage — to help guide water away from walls to the outside.

Benefits of Using Tyvek® DrainWrap™

Compared to other textured moisture barriers, Tyvek® DrainWrap™ provides superior performance in tests where bulk water was applied between a flat acrylic panel and the moisture barrier. When compared to Grade D building paper and #15 felt, Tyvek® DrainWrap™ provides superior sustained performance.

In addition, Grade D building paper wrinkles as it absorbs water, and experiences wetting and drying cycles. This can create dams that hinder water drainage. The chart shows the results of testing that compared drainage rates between Tyvek® DrainWrap™ and building paper after numerous cycles. The test was performed by introducing bulk water between a flat acrylic panel and the moisture barrier, and measuring the drainage rate after numerous wetting and drying cycles.

Installation Is Easier

Tyvek® DrainWrap™ is easy to install. It is pliable, so it wraps around corners with ease. And it is light weight, easier to handle, and faster to install. In addition, because it's flexible, DuPont™ Tyvek® DrainWrap™ easily interfaces at joints, and over architectural elements.

DuPont™ Tyvek® DrainWrap™ is available in 9- and 10- foot width rolls for use behind a variety of claddings. This wide roll minimizes seams and offers the potential for reduction in labor costs, compared to narrower rolls.

Support Throughout The Building Process

In addition to its superior performance, Tyvek® DrainWrap™ is backed by the quality, integrity and resources of DuPont, the company that invented building wrap, including:

- The DuPont Certified Installer Program, offering training and certification for installation contractors.
- 10-year limited warranty from DuPont.
- Support from the DuPont™ Tyvek® Specialist Network. From the latest updates on building codes to on-site consulting and training, a local DuPont™ Tyvek® Specialist can help make sure the job gets done right.

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DuPont™ 9 x 150 Tyvek® HomeWrap®

DuPont™ Tyvek® HomeWrap® is the original house wrap, incorporating unique material science that helps keep air and water out, while letting water vapor escape.

As a result, it can contribute to improved building durability by helping to protect homes against damaging wind and rain that can penetrate the exterior cladding.

Tyvek® HomeWrap® can also reduce home energy bills by controlling air flow and water intrusion, which helps insulation work better, allowing the HVAC system to work more efficiently. It's a house wrap engineered to keep homes cool in the summer, warm in the winter, and dry all year round.

How It Works

The unique nonwoven structure of Tyvek® HomeWrap® makes it breathable, allowing moisture vapor to pass through. This helps promote drying in wall systems, to help prevent mold and water damage. In addition, Tyvek® HomeWrap® stops air movement through the walls, helping insulation perform closer to its full R-value, to provide a more energy-efficient home.

Not All House Wraps Are Equal

The superior performance of Tyvek® HomeWrap® is what separates it from other types of house wraps, as shown below.

Perforated Wraps

Perforated house wraps require “micro-perforations,” or thousands of holes, to allow the product to breathe. While this can help keep moisture from getting trapped inside walls, it also gives water and air a way in. Perforated wraps give up a great deal of resistance to air and water penetration in order to achieve some level of vapor permeability. Water and air infiltration can lead to the potential for water damage and make insulation less effective, leading to higher energy costs.

Low Perm Microporous Film Wraps

A low perm, microporous film wrap is manufactured in a two-part process, where a coarse fabric backing with no protection for a building is laminated with a fragile film, in order to pass minimum requirements for water and air resistance. The film layer is delicate and routinely compromised in the real world through tearing and abrasion. These products can perform well in controlled conditions, but they are a problematic choice for real world workers and job sites.

DuPont™ Tyvek® WB is Very Different

The DuPont Building Envelope system consists of products specifically designed for proper moisture and air management within wall systems. Tyvek® WB is a uniquely engineered product made by spinning extremely fine high-density polyethylene (HPDE) fibers that are fused together to form a strong, uniform

web. The tough structure of Tyvek® is engineered to create millions of extremely small pores that resist bulk water and air penetration, while allowing moisture vapor to pass through.

Ease of Installation

Tyvek® HomeWrap™ is easy to install. It is pliable, so it readily wraps around corners, interfaces at joints, and wraps over unique architectural geometries.

Light weight, easy to handle, and fast to install, Tyvek® HomeWrap® is available in 9-foot and 10-foot width rolls, to help minimize seams and offer the potential for reduction in labor.

Support Throughout the Building Process

In addition to its superior performance, Tyvek® HomeWrap® is backed by the quality, integrity and building science resources of DuPont, the company that invented the building wrap category, including:

- The DuPont™ Certified Installer Program, offering training and certification for installation contractors.
- 10-year limited warranty from DuPont.
- Support from the DuPont™ Tyvek® Specialist Network. From the latest updates on building codes to on-site consulting and training on DuPont weatherization products, a local DuPont™ Tyvek® Specialist can help you make sure the job gets done right.

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DuPont™Tyvek® 10 x 125 CommercialWrap® D

DuPont™Tyvek® CommercialWrap® D is an innovative weather barrier that offers superior drainage and durability for commercial buildings.

It features a specially engineered surface texture that provides durable, effective water drainage under a wide variety of facades in climates that may require additional drainage.

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DuPont™ 6" x 75' and 9" x 75' FlexWrap™ NF

DuPont™ FlexWrap™ NF self adhered flashing does not require mechanical fasteners, even in flexed corner areas around building openings. This allows it to provide easy, one-step insulation for hard-to-seal corners around windows and doors.

FlexWrap™ NF is designed to help protect vulnerable corners against air and water intrusion, as part of a complete DuPont Building Envelope Solution. It's effective across a range of window and door designs and a wide range of typical wall substrates, including OSB, plywood, gypsum, concrete masonry unit (CMU) and other non-nailable sheathing materials.

How it Works

FlexWrap™ NF integrates easily with all DuPont air and water barriers, to help seal the building envelope for improved durability and energy efficiency.

Correctly installed, FlexWrap™ NF can help stop water from getting at the corners of windows and doors. In turn, that can help prevent water damage, such as wood rot and corrosion, as well as mold. Keeping air and water out can also help maintain insulation R-value, for improved energy efficiency.

One Step Installation

The "NF" in DuPont™ FlexWrap™ NF means "no fasteners." Instead, DuPont™ FlexWrap™ NF is a self adhered, extendable flashing backed with a 100% butyl-based adhesive layer, making one-step installation – and protection – possible. And because it's an extendible flashing material, DuPont™ FlexWrap™ NF can be stretched and wrapped into a rough window opening before the window is installed, or flashed around arched or custom-shaped windows, as well as other wall penetrations.

So FlexWrap™ NF isn't just an effective flashing to seal out water, it's also a cost- and time-effective material for crews to work with on the job site.

Performance You Can Trust

DuPont™ FlexWrap™ NF offers superior performance and more:

- Qualified according to AAMA 711-07 Voluntary Specifications for Self Adhering Flashing Used for Installation of Exterior Wall Fenestration Products.
- Backed by a 10-year limited warranty from DuPont.
- Trained installation services through the DuPont Certified Installer Program.

When a self adhered flashing material is the right choice– due to variations in the substrate material, unique spatial challenges, custom window shapes, or other consideration —DuPont™ FlexWrap™ NF delivers a practical, integrated solution.

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DuPont™ 4", 6" x 125', and 9" x 125' Straight Flash

- Superior protection from water damage
- 100% butyl sealant provides excellent adhesion to most common building materials
- Meets the AAMA 711-13 material standard at the highest classification levels: Class A (no primer) and Level 3 Thermal Exposure (80°C / 176°F for 7 days)
- Meets and Exceeds ASTM E331 Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference: no leakage at 300 Pa (equivalent to 50 mph windload), even after thermal aging (0-120°F)
- Does not contain asphaltic / bitumen adhesive materials which many window manufacturers prohibit due to adverse material reactions, such as black staining, oozing, and deformation over time, particularly with vinyl flanges
- Can be installed at external temperatures as low as -4°C (25°F) as long as the surface is clean and free from frost and ice

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DuPont™ 4", 6" x 75', and 9" x 75' Flashing Tape

DuPont™ Flashing Tape helps protect the heads and jambs of rectangular doors and windows from air and water intrusion.

Wind-driven rain and outdoor air can find their way into walls around windows and doors. By helping to seal the building envelope, self-adhered DuPont™ Flashing Tape can help reduce the risk of water damage, increase building comfort, and improve energy efficiency.

How it Works

DuPont™ Flashing Tape is made from polypropylene film with a butyl rubber adhesive backing. In installed system water intrusion testing with no exterior cladding, it performed to ASTM E-331 standards, and shows no leakage at 300 Pa, even after thermal aging to 120o F.

It is engineered to withstand the rigors of the job site, including UV exposure, for up to 120 days. In addition to bulk water holdout, DuPont™ Flashing Tape helps control air leakage, where windows and doors interface with sheathing or the weather barrier. As part of a complete building envelope system, this can help keep heated and cooled air in, and exterior air out, more effectively, for improved comfort and energy efficiency.

Trusted Performance

DuPont™ Flashing Tape was developed, based on years of DuPont building science expertise in protecting the building envelope, that has been rigorously tested in both the lab and the field, and is:

- Compatible with all DuPont™ Tyvek® air and water barriers and other building envelope products.
- Qualified according to the AAMA 711-13 Voluntary Specification for Self Adhering Flashing Used for Installation of Exterior Wall Fenestration Products.

Support Throughout The Building Process

In addition to its superior performance, DuPont™ Flashing Tape is backed by the quality, integrity and resources of DuPont, as part of a building envelope system, including:

- The DuPont Certified Installer Program, offering training and certification for installation contractors.
- 10-year limited warranty from DuPont.
- Support from the DuPont™ Tyvek® Specialist Network. From the latest updates on building codes to on-site consulting and training, a local DuPont™ Tyvek® Specialist can help make sure the job gets done right.

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