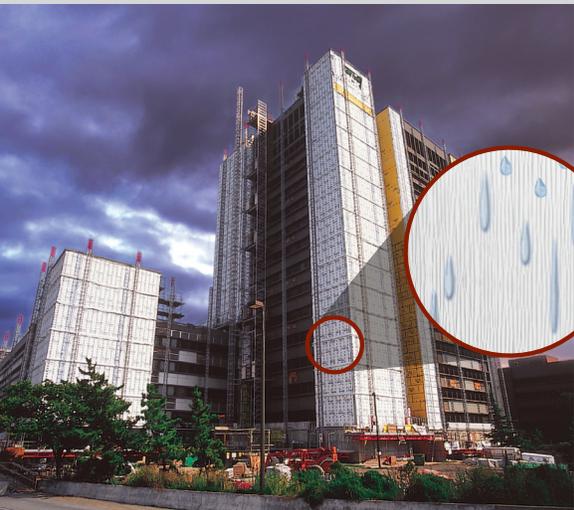


# DuPont™ Tyvek® CommercialWrap® D

BUILDING SCIENCE BULLETIN

DuPont™ Tyvek® CommercialWrap® D offers superior drainage and durability for commercial buildings.



DuPont™ Tyvek® CommercialWrap® D has a specially engineered surface texture that provides an enhanced drainage plane for wall systems and climates that may require additional drainage.

**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.**

As a part of DuPont™ Tyvek® Weather Barrier Systems, DuPont™ Tyvek® CommercialWrap® D integrates seamlessly with other components to provide superior air and water hold-out, with high tear resistance and wind load resistance—so you can design and build with confidence.

DuPont™ Tyvek® CommercialWrap® D is backed by an industry-leading warranty, technical support, and the innovative building science leadership of DuPont. Of the hundreds of decisions you and your team make every day, choosing a weather barrier system with DuPont™ Tyvek® CommercialWrap® D is one of the easiest things you can do to make a significant difference in energy efficiency and overall building performance. By controlling airflow, holding out bulk water and allowing interior moisture vapor to escape, DuPont™ Tyvek® CommercialWrap® D can help reduce the energy needed to heat and cool buildings, and can help create a more sustainable, durable structure.\*

- Designed to work with the complete line of products within DuPont™ Tyvek® Weather Barrier Systems.
- Specially engineered surface texture provides an enhanced drainage plane.
- High tear resistance and high wind load resistance stand up to rugged commercial construction conditions.
- Superior bulk water hold-out helps to eliminate the potential for water intrusion and accumulation, which can lead to mold and mildew.
- 9-month UV resistance.

\*For a detailed simulation study of the energy impact of improving envelope airtightness see "Investigation of the Impact of Commercial Building Envelope Airtightness on HVAC Energy Use." NISTIR 7238; June 2005.



The miracles of science™



## Performance with virtually any design, in any climate

In addition to enhanced drainage, DuPont™ Tyvek® CommercialWrap® D provides superior durability with excellent tear resistance even in high wind loads, and offers 9-month UV resistance. As part of a complete weather barrier system, DuPont™ Tyvek® CommercialWrap® D is designed to integrate seamlessly under a wide variety of commercial facades to help improve building performance. And because DuPont™ Tyvek® CommercialWrap® D is a durable, flexible membrane, it can be easily installed in a variety of different wall assemblies.



### Stucco building

When used with two layers, Tyvek® CommercialWrap® D will provide improved drainage behind stucco systems, provided that the inner layer of material is flashed properly.



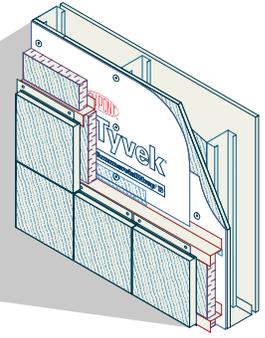
### EIFS building

Tyvek® CommercialWrap® D will provide improved drainage behind EIFS systems, helping to avoid costly callbacks.



### Fiber Cement Siding building

Tyvek® CommercialWrap® D will provide improved drainage, enabling the wall system to dry faster and increasing the durability of the wall.



**Tyvek® CommercialWrap® D provides bulk water hold-out between the insulation and the exterior gypsum sheathing, protecting the wall from water intrusion and accumulation, which can lead to mold, mildew, and premature deterioration.**

While construction materials and practices may vary by region, the need for energy savings is universal. Fortunately, the unique balance of properties and superior vapor permeability of DuPont™ Tyvek® CommercialWrap® D make it equally effective across a wide range of challenging environments—including areas of heavy rainfall, wind, snow or humidity.



### Improves air control for greater energy savings

Reduces air leakage and helps protect the installed R-value of insulation for greater energy savings, making it ideal for cold climates.



### Superior water hold-out

Helps keep out water and wind-driven rain, providing an ideal solution in regions with heavy precipitation.



### Effective across a wide range of temperatures

Helps with energy savings in every season, especially in regions that experience wide changes in temperature and extreme climate conditions.



### Allows moisture vapor to escape

Combines superior bulk water hold-out with vapor permeability that allows moisture vapor to escape, helping prevent moisture accumulation in walls that can lead to the formation of mold and mildew.

## The right balance of properties leads to better performance

Not all barriers are created equal. When it comes to selecting the right weather barrier, there are a number of choices with various benefits.

All four barrier properties—durability, air resistance, water resistance and vapor permeability—are critical for managing air and moisture movement through a building envelope and for ensuring material performance in the application. However, competing demands make it difficult for most materials to achieve this balance.

DuPont™ Tyvek® CommercialWrap® D provides excellent performance across all categories—giving you the right balance of properties to help ensure superior performance.

Specially engineered surface texture provides an enhanced drainage plane for durable, efficient water drainage over the life of the building.



### Durability

Provides excellent tear strength and 9 months of UV protection.



### Water resistance

Helps prevent water from entering walls, avoiding costly damage.



### Air resistance

Helps protect insulation from drafts, reducing energy costs.



### Vapor permeability

Allows moisture vapor to escape, helping to create a better indoor air environment.

## Leadership in Energy and Environmental Design (LEED®)

By helping seal the building envelope for improved energy efficiency and air quality, DuPont™ Tyvek® CommercialWrap® D helps contribute toward U.S. Green Building Council LEED® credits in the following categories:

- Energy & Atmosphere
- Materials & Resources
- Indoor Environmental Quality



Plus, it's backed by the support, training, customer service and building science expertise of DuPont, a brand known and trusted by building professionals for more than 25 years for delivering innovative solutions to meet the building needs of today, tomorrow and the future.

## The DuPont™ Tyvek® Specialist Network

The DuPont™ Tyvek® Specialist Network is an elite team of more than 180 highly-trained field representatives, including 30 who are focused specifically on commercial building applications. You can count on your DuPont™ Tyvek® Specialist to help you locate a dealer in your area and help ensure proper installation of DuPont™ Tyvek® Weather Barrier Systems.



For more information, please call  
1-800-44-Tyvek or visit  
[www.Construction.Tyvek.com](http://www.Construction.Tyvek.com)



*The miracles of science™*

## 10-Year Limited Warranty

DuPont™ Tyvek® CommercialWrap® D offers a 10-Year Limited Warranty for product replacement, giving you the assurance that DuPont will stand behind its products. For more information on how to obtain the warranty, please visit [www.Construction.Tyvek.com](http://www.Construction.Tyvek.com).



## Continuing education

To help you stay current on building practices and specifications, your local DuPont™ Tyvek® Specialist offers AIA and CES learning units, as well as Building Science Seminars.

## Complete system of products

DuPont™ Tyvek® Weather Barrier Systems integrate seamlessly to help seal the building envelope for more durable and energy-efficient buildings. For optimal protection on all your building projects, use DuPont™ CommercialWrap® D with DuPont™ Tyvek® Weather Barrier Systems including: DuPont™ Thru-Wall Flashing, DuPont™ FlexWrap™, DuPont™ StraightFlash™, DuPont™ StraightFlash™ VF, DuPont™ Tyvek® Tape and DuPont™ Tyvek® Wrap Caps.

