Protection for all six sides
Water, air and thermal solutions for building & construction
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Better buildings start with better construction technology

The future of building begins now, and DuPont Performance Building Solutions is committed to being in step with where the construction industry is going. Our robust portfolio of proven and compatible products brings together decades of technology, expertise and innovation to provide water, air and thermal protection for all six sides of your building envelope.

And it’s all backed by the expertise of building science leaders who are dedicated to your success and warranties from a name you trust. Protecting all six sides of your building, from foundation to walls to roof and the transitions in between, is our commitment to you.
Protection for all six sides

There are no insignificant details on a building project. It’s critical to ensure full building envelope protection from water, air and thermal intrusion, at every level, and at every transition. DuPont has the solutions you need to ensure complete, lasting coverage.

DuPont™ Insta Stik™ Roofing Adhesive
DuPont™ Tyvek® Commercial Wrap® D
DuPont™ FlexWrap® EZ Adhesive Tape
DuPont™ StraightFlash™ Premium Self-Adhered Flashing Material
DuPont™ Styrofoam™ Roofmate™ XPS Insulation
DuPont™ Styrofoam™ Highload XPS Insulation
Energy-efficient structures are built from the ground up

Foundation and slab

DuPont’s science-based insulation materials are durable and easy to install, making them ideal for slab foundations and interior and exterior below-grade walls.

**DuPont™ Styrofoam™ Perimate™ XPS Foam Insulation**
- R-value 5.0/inch
- Sturdy, moisture-resistant foam board insulation for exterior foundations
- Covered with patented dovetail grooves on one face to channel water down to footing drains or weeping tiles
- Manufactured with shiplap edges on the long edges

**DuPont™ Styrofoam™ High Load XPS Foam Insulation**
- R-value 5.0/inch
- Tough, versatile insulation for commercial high-load, low-temperature and geotechnical applications
- Superior resistance to water absorption, water vapor transmission and freeze/thaw cycling
- Long-term compressive strength in load-bearing applications
- Exceptional R-value retention
- Resists compressive creep and fatigue

**DuPont™ Styrofoam™ Square Edge XPS Foam Insulation**
- R-value 5.0/inch
- Water-resistant insulation for foundations and crawlspace
- Minimum compressive strength of 25 psi and a flexural strength of 50 psi
- Designed to ensure energy efficiency and minimize onsite cutting and waste
Advantages of insulating the exterior of foundation walls

Thermal bridging

A block or concrete wall insulated on the exterior surface is not subjected to large temperature differences, so it will not act as a thermal bridge.

Temperature fluctuations

Block walls insulated on the exterior undergo less air convection in block cavities. At nearly room temperature, the basement walls act as a heat reservoir, buffering interior temperature fluctuations. In some instances, defreezing forces are prevented from acting directly on the basement wall.

Living space

Unlike interior insulation applications, no usable space is lost.

DuPont™ Styrofoam™ – the performance choice

DuPont™ Styrofoam™ insulation products from DuPont have unique properties that enable them to outperform other products in exterior foundation insulation applications.

Uninsulated, conditioned below-grade walls can account for up to 50% of total heat loss in an otherwise tightly sealed, well-insulated structure

Report, Kansas State University and the U.S. Department of Energy
Exterior walls

Systemic solutions for complete building envelope protection

DuPont™ Styrofoam™ Cavitymate™ XPS Foam Insulation
R-value 5.0/inch
- Moisture-resistant, durable and lightweight
- Extruded polystyrene foam board specifically designed for use in wet cavity wall environments in commercial applications

DuPont™ Thermax™ XARMOR™ (ci) Exterior Insulation
- Optimized for use behind rainscreen exteriors
- Toughest insulation available for the DuPont™ Thermax™ Wall System
- 4.0-mil embossed exterior foil facer provides durability and long-term performance

DuPont™ Thermax™ Sheathing Foam Insulation
- Engineered for concealed and exposed applications
- A nonstructural rigid board material consisting of a fiberglass-infused foam core that helps improve fire performance and dimensional stability

DuPont™ Tyvek® CommercialWrap®
- Engineered to provide excellent performance as a weather barrier
- 270 days of UV resistance delivers added strength and durability needed in commercial construction
- Provides weather protection, air and moisture management, and energy savings

DuPont™ Tyvek® CommercialWrap® D
- Premium, durable weather barrier
- Specially engineered surface texture for superior water drainage
- High tear and wind-load resistance
- 270 days of UV resistance
- Provides weather protection, air and moisture management, and energy savings

DuPont™ Tyvek® Fluid Applied WB+™
High vapor permeability (22 perm @ 25 mil)
- Fluid-applied weather barrier solution with excellent low-temperature crack-bridging
- 300% elongation and 99% recovery
- Fast rain resistance; tack-free in 2 hours
- 99% solids content for single-coat coverage with less pinholing
- 2-3 times the coverage of other fluid-applied WRBs when used at recommended application thickness

Exterior wall solutions from DuPont provide a systematic approach that works for your entire building envelope. Innovative, yet easy-to-install, our exterior insulation systems and sealants help architects and contractors deliver high-performance buildings.
DuPont™ Commercial Wall

The Power of Two brings together trusted DuPont™ Tyvek® materials with DuPont™ Styrofoam™ and DuPont™ Thermax™ insulation products to create high-performance wall assemblies.

• Wide portfolio enables flexibility to choose the right assembly for the job – including wrap over foam, WRB under foam and inverted wall assemblies
• Assemblies are tested above and beyond code requirements for exceptional water holdout, air holdout and thermal performance
• Industry-leading system warranty includes product and labor

DuPont™ Thermax™ Wall System

• Features DuPont™ Thermax™ Brand Insulation with DuPont™ LiquidArmor™ Flashing & Sealant for enhanced warranty protection in Gold, Silver and Bronze levels

DuPont™ Cavitymate™ Ultra Wall System

• Features DuPont™ Styrofoam™ Cavitymate™ Ultra Insulation and Great Stuff Pro™ Gaps & Cracks Foam Sealant

The most environmentally sustainable building in Virginia

The Chesapeake Bay Foundation’s Brock Environmental Center

Goal

Set the standard for enduring, sustainable construction by achieving LEED® Platinum and Living Building Challenge™ certification. Be the first building in the state to embrace a net-zero energy and net-zero water approach.

Challenges

The site is in a coastal floodplain located in an area prone to intense storms, hurricanes and high humidity. What’s more, the building’s design features complicated geometries intended to take advantage of seasonal breezes and to limit sunlight penetration in summer while maximizing it in winter.

Solution

Protect the new wall assembly with the DuPont™ Tyvek® Fluid Applied System – a complete, integrated weather barrier system designed to perform in any climate and under a wide variety of commercial façades.
Integrated insulation and barrier solutions

Wall systems

Rigid foam insulation coupled with innovative barrier sealing and flashing technologies helps your building perform more efficiently. These wall systems offer excellent long-term thermal performance, ease of use, moisture resistance and – in some situations – reusability.

**DuPont™ Thermax™ Wall System (TWS)**
- DuPont™ Thermax™ XARMOR™ (ci) Exterior Insulation
- Choice of DuPont™ LiquidArmor™ QS, CM or LT Flashing & Sealant

**DuPont™ Cavitymate™ Ultra Wall System (on CMU)**
- DuPont™ Styrofoam™ Cavitymate™ Ultra
- Great Stuff Pro™ Gaps & Cracks

**DuPont™ Ultra SL Wall System (on steel stud)**
- DuPont™ Styrofoam™ Ultra SL
- Choice of DuPont™ LiquidArmor™ QS, CM or LT Flashing & Sealant

**DuPont™ Commercial Wall 2 System**

**Wall 2 – Tyvek® WRB Under Exterior CI**
- DuPont™ Styrofoam™ XPS or DuPont™ Thermax™ insulation
- DuPont™ Tyvek® Fluid Applied WB+™ or DuPont™ Tyvek® CommercialWrap™ or CommercialWrap™ D

**Wall 2 – Tyvek® WRB Over Exterior CI**
- DuPont™ Tyvek® CommercialWrap™ or CommercialWrap™ D
- DuPont™ Styrofoam™ or DuPont™ Thermax™ insulation

**Wall 2 – Inverted Wall**
- DuPont™ Tyvek® Fluid Applied WB+™ or DuPont™ Tyvek® CommercialWrap™ or CommercialWrap™ D
- Exterior gypsum
- DuPont™ Styrofoam™ or DuPont™ Thermax™ insulation
Wall systems backed by industry-leading warranties

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<th>Warranty coverage</th>
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<td>20-year product &amp; labor</td>
<td>Thermal Water Exposure</td>
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<td>15-year system with labor</td>
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<td>6-month product</td>
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<td>10-year system with labor</td>
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<td>6-month product</td>
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<td><strong>BRONZE</strong></td>
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<td><strong>Wall² – Tyvek® WRB Under Exterior CI</strong></td>
<td>10-year product</td>
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<td><strong>Wall² – Tyvek® WRB Over Exterior CI</strong></td>
<td>10-year product</td>
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<td><strong>Wall² – Inverted Wall</strong></td>
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Goal

Keep construction of The Headlands International Dark Sky Park’s new visitor center and observation tower on schedule as weather conditions threatened progress.

Challenge

Spray foam insulation – ideal for rounded structures – was specified for the tower. However, continuing high winds, cold temperatures, rain and snow made it impossible to apply.

Solution

Apply the DuPont™ Cavitymate™ Ultra Wall System to the entire structure. The system, which combines moisture protection and thermal performance in one integrated package, consists of DuPont™ Styrofoam™ Cavitymate™ Ultra – continuous rigid insulation with an integrated water barrier – and Great Stuff Pro™ Gaps & Cracks – an insulating foam sealant for use on seams and penetrations.

Simply changing the orientation of the insulation panels from horizontal to vertical enabled them to conform to the curved wall of the tower – a creative, high-performance fix that put the project back on schedule.
Integrated protection from the inside out

Eliminate air leakage and increase thermal performance with well-integrated systems of insulation and weatherization solutions from DuPont.

**Interior insulation solutions**

Continuous building insulation that is easy to cut, handle and install; covers entire wall surfaces; and reduces the potential for condensation within the wall assembly.

**DuPont™ Thermax™ White Finish (WF) Insulation**
- Easy-to-install continuous insulation
- Features an easy-to-clean white embossed surface
- Combines high R-value with dimensional stability and moisture resistance

**DuPont™ Thermax™ Heavy Duty Foam Insulation**
- Insulation and interior finish system for walls and ceilings
- High durability in difficult conditions – stands up to the elements with a fiberglass core and thermoset-coated aluminum facing

**DuPont™ Thermax™ Light Duty Foam Insulation**
- Continuous insulation
- Fiberglass-reinforced foam core
- Long-term thermal resistance
- Facing prevents water and water vapor intrusion

**Air-sealing insulating foam sealants**

Quick, convenient solutions for effectively blocking air leaks, dirt, moisture, allergens and pests.

**Great Stuff Pro™ Gaps & Cracks**
- Ideal for gaps and penetrations up to 3”
- Recognized as a fireblock sealant
- Airtight, water-resistant seal

**Great Stuff Pro™ Gasket**
- Low expansion to seal gaps without bowing or bending frame
- Bonds to vinyl, wood and metal frames
- Airtight, water-resistant seal

**DuPont™ Enerfoam™ Professional Foam Sealant**
- Flexible foam sealant bonds to most building substrates to seal cracks and voids
- Minimally expanding for effective, airtight seal
- Fireblock rating (U.S.)
- Water-resistant seal

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**DuPont™ Thermax™**, **Styrofoam™** and **Froth-Pak™** materials are low-emitting materials

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Smart building design for offices

According to researchers at Harvard University and Syracuse University, people who work in well-ventilated offices with below-average levels of indoor pollutants and carbon dioxide have significantly higher cognitive functioning scores in crucial areas – such as responding to a crisis or developing strategy – than those who work in offices with typical levels.

Ways designers can improve employee productivity and performance through more sustainable design include:

1. **Ensure building enclosures are airtight.** Employing moisture-resistant continuous insulation along with air sealing minimizes moisture intrusion, improving indoor air quality and reducing the potential for rot and mildew.

2. **Meet or exceed minimum R-values.** Better R-values correlate with improved occupant comfort.

3. **Build for productivity and efficiency.** Efficient buildings with improved air quality and other comforts benefit people, the planet and profitability.

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Boards and sheathing

*Nonstructural rigid board materials with a fiberglass-infused foam core that helps improve fire performance and dimensional stability.*

**DuPont™ Thermax™ Metal Building Board**
- Ideal for metal structures as well as standing-seam metal roofs
- Interior finish system that provides insulation with long-term R-value
- Listed in 1-, 2-, 3- and 4-hour UL fire-rated wall assemblies.
- 1.25-mil embossed aluminum facers on both sides
- Low perm rating to help prevent water and water vapor intrusion

**DuPont™ Thermax™ Sheathing Foam Insulation**
- Engineered for both concealed and exposed applications
- Nonstructural rigid board material
- Fiberglass-infused foam core helps improve fire performance and dimensional stability

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DuPont™ Thermax™ products deliver R-6.5/inch thermal resistance

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Enhance the long-term performance of your building’s openings. Prevent air leaks and moisture infiltration around the rough openings of windows, doors and other penetrations with insulation and weatherization solutions from DuPont.

**DuPont™ FlexWrap™ EZ Adhesive Tape**
- Versatile self-adhered flashing for nonflanged objects
- Flexible, easy-to-apply adhesive tape
- Stops small air leaks that diminish a structure’s energy efficiency and durability
- Withstands up to 270 days of UV exposure

**DuPont™ StraightFlash™ Premium Self-Adhered Flashing Material**
- Ideal for helping to protect heads and jambs of windows and doors
- Protects vulnerable areas between the fenestration and the water-resistive barrier often subject to potential water damage
- Superior durability – tear-resistant and withstands up to 270 days of UV exposure
- Excellent adhesion
- Performs through extreme temperatures

**DuPont™ LiquidArmor™ Flashing & Sealant**
- Spans up to ¼” gap
- Available in three formulations to meet your exact needs:
  - **DuPont™ LiquidArmor™ QS Flashing & Sealant**
    - Acrylic-based
    - Spray- or brush-applied
    - Dries to touch in 1-4 hours; rain-resistant in ~5 hours
    - Meets AAMA 714
  - **DuPont™ LiquidArmor™ CM Flashing & Sealant**
    - Acrylic-based
    - Spray- or brush-applied
    - Dries to touch in 1-4 hours; rain-resistant in ~24 hours
  - **DuPont™ LiquidArmor™ LT Flashing & Sealant**
    - Silicone-based
    - Trowel- or sausage-gun-applied
    - Strong abrasion resistance
    - Skins over in ~45 minutes
    - Meets AAMA 714
    - Long-term UV resistance

**DuPont™ Tyvek® Fluid Applied Flashing & Joint Compound**
- STPE-based
- Trowel- or caulk-gun-applied
- Skins over in 1-2 hours
- Meets AAMA 714
Hilton takes energy efficiency to new heights

At Homewood Suites in Arlington, Virginia, Hilton Worldwide and DuPont teamed up to help Hilton achieve higher levels of energy efficiency in its new hotels. They chose the DuPont™ Thermax™ Wall System with DuPont™ LiquidArmor™ LT Flashing & Sealant for the job. The DuPont™ Thermax™ Wall System helps streamline design and construction, while DuPont™ LiquidArmor™ LT Flashing & Sealant reduces air leakage to help building owners save money and provide a more comfortable environment to occupants.

**Results**
- Estimated $200,000 in cost savings
- 17% increase in R-value
- 18% R-value improvement over code

The success doesn't stop here. The plans are being shared with Hilton franchise members to help them envision better building options that yield a more profitable operating model and better customer experience.

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**Insulating foam sealants**
*Professional-grade, easy-to-install sealants that reduce unwanted airflow, lower energy costs and improve comfort*

**Great Stuff Pro™ Window & Door**
- Bonds to vinyl, wood and metal frames
- Low expansion to appropriately seal gaps without bowing or bending frame
- Airtight, water-resistant seal
- Tack-free within 3-10 minutes; ready to trim within 60 minutes

**Great Stuff Pro™ Gaps & Cracks**
- Ideal for gaps and penetrations up to 3”
- Recognized as a fireblock sealant
- Airtight, water-resistant seal

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**Sealing for the vulnerable parts of your building envelope**

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- Recognized as a fireblock sealant
- Airtight, water-resistant seal
Ensure complete protection at critical interfaces

Transitions

Modern building materials are enabling structures that are more energy-efficient, comfortable and durable. It's now more important than ever to ensure sealing between building elements to eliminate air and moisture penetration to maintain continuous protection.

DuPont™ DuraGard™ CM Transition Flashing
- Self-adhered flashing features primerless adhesion to most substrates
- Ideal for multiple applications, from through-wall flashing and wall transitions to roof and below-grade systems
- Polyester-fiber top-sheet allows adhesion by most sealants
- Polypropylene interlayer for added robustness and durability
- Meets AAMA 711-20
- Complements air and water barrier assemblies

DuPont™ Froth-Pak™ Foam Insulation – Two-Component Spray Foam
R-value 5.6/inch
Air infiltration accounts for 25-40% of a building’s energy loss. Reduce those losses by air-sealing with DuPont™ Froth-Pak™.

The professional insulation kit is available in many convenient sizes from 210 board feet to more than 2,000 board feet and larger, depending on your job needs.
- Intended for filling larger cavities, providing both insulation and air-sealing properties
- Class A rating (flame spread of 25 or less) allows use in a wide range of interior and exterior industrial, commercial, institutional and residential settings
- Meets NFPA 286 for roof-wall juncture (2” x 6” x unlimited length)
Increasing energy efficiency

Creating an airtight and watertight building envelope contributes to energy efficiency in three important ways:

1. **Making ventilation more effective** – HVAC represents the largest share of energy use in buildings. DuPont Building Envelope systems can reduce air leakage through the wall assembly – especially at critical transitions – to help HVAC systems work more efficiently.

2. **Maintaining R-value** – At wind speeds as low as 5 mph, cavity batt insulation without an air barrier retains less than 40% of its original R-value. DuPont Building Envelope systems help control unwanted airflow, helping insulation maintain its installed R-value.

3. **Protecting against moisture** – Wet insulation retains less than 40% of its effective R-value. DuPont Building Envelope systems help protect against bulk water intrusion and allow water vapor to escape to help keep insulation dry.
Your roof is a critical factor in the overall performance of the building envelope. Ensure a longer-lasting, energy-efficient and sustainable roof with moisture-resistant insulation and adhesive solutions from DuPont.

Roofing solutions from DuPont

**DuPont™ Froth-Pak™ Foam Insulation – Two-Component Spray Foam**

*R-value 5.6/inch*

Available in many different sizes for your convenience on the job site, these professional insulation kits prevent air infiltration and reduce energy losses.

- Intended for filling larger cavities, providing both insulation and air-sealing properties
- Class A rating (flame spread of 25 or less) allows use in a wide range of interior and exterior industrial, commercial, institutional and residential settings

**DuPont™ Styrofoam™ Extruded Polystyrene (XPS)**

*R-value 5.0/inch*

The full range of DuPont™ Styrofoam™ products brings a solution for every building application. For roofing, DuPont™ Styrofoam™ Roofmate™, Plazamate™ and Highload XPS Foam Insulation products offer ideal, water-resistant thermal protection for inverted or protected membrane-roof systems in a range of compressive strengths to suit your design needs.

- Strong, yet lightweight
- Easy to fabricate into various sizes and shapes to meet specific design needs
- Water- and rot-resistant – ideal for insulating green and blue roofs
- Reusable
Insulation is key to inverted-roof performance

While traditional roofs place the insulation under the protective membrane, inverted roofs are designed with the waterproofing layer, usually a liquid-applied membrane, beneath the insulation. Insulation boards are loose-laid on top of the membrane and then weighted down with paving slabs, gravel ballast or soil medium in the case of “green” or vegetative roofs.

Inverted roofs offer:
1. Lower total roof-life costs
2. Improved environmental performance
3. Better storm water management
4. Greater occupant satisfaction
5. Habitat preservation
6. Potential storm water management when used in a “blue roof” design assembly

They require insulation that resists water absorption, provides excellent thermal performance, is unaffected by freeze/thaw cycles, withstands surface traffic, and is protected from UV and mechanical damage.

DuPont™ Styrofoam™ XPS Insulation has long been a top choice for insulating green and blue roof assemblies.

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**DuPont™ Insta Stik™ Quik Set Commercial Roofing Adhesive**
- Polyurethane adhesive for attaching insulation boards to roof decks and substrates
- Works in a wide range of temperatures to extend the working season
- Easy-to-use, single-part formulation
- Maintains adhesion during freeze/thaw cycles
- Maximizes wind uplift resistance; secures insulation boards in high-wind conditions in loose-laid and ballasted applications
- Low thermal conductivity

**DuPont™ Tile Bond™ Roof Tile Adhesive**
- Minimally expanding foam for clay and concrete roof tiles
- Quicker and easier to install compared to traditional attachment methods such as screws, mortar, wire ties and clips
- Provides greater attachment strength while minimizing nail penetrations and reducing roof weight loads
### DuPont™ Tyvek® fluid-applied products

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<tr>
<th>Properties*</th>
<th>Percent solids</th>
<th>Short-term time and 70°F</th>
<th>Air penetration resistance, cm²/ft² @ 15 psf</th>
<th>Air penetration resistance, cm²/sec@100 cc</th>
<th>Wall assembly air &amp; water leakage</th>
<th>Wall assembly air &amp; water leakage</th>
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### DuPont™ Tyvek® weather-resistive barrier products

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<tr>
<th>Properties*</th>
<th>Air penetration resistance, cm²/ft² @ 15 psf</th>
<th>Air penetration resistance, cm²/sec@100 cc</th>
<th>Wall assembly air &amp; water leakage</th>
<th>Wall assembly air &amp; water leakage</th>
<th>Water vapor transmission, perms @ 3 in.</th>
<th>Water vapor transmission, perms @ 15 in.</th>
<th>Acceptance criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test method</td>
<td>ASTM E2357</td>
<td>Gurley Hill (Tappi T-460)</td>
<td>ASTM E1677</td>
<td>ASTM E2178</td>
<td>ASTM E283</td>
<td>ASTM E96-00</td>
<td>25 mils Pass</td>
</tr>
<tr>
<td>DuPont™ Tyvek® CommercialWrap®</td>
<td>&lt;0.01</td>
<td>&gt;1,500</td>
<td>Type I</td>
<td>0.001</td>
<td>&lt;0.01</td>
<td>200</td>
<td>28</td>
</tr>
<tr>
<td>DuPont™ Tyvek® CommercialWrap® D</td>
<td>&lt;0.04</td>
<td>&gt;750</td>
<td>Type I</td>
<td>0.001</td>
<td>&lt;0.04</td>
<td>212</td>
<td>30</td>
</tr>
</tbody>
</table>

### DuPont™ Styrofoam™ extruded polystyrene (XPS) foam insulation products

<table>
<thead>
<tr>
<th>Properties*</th>
<th>Thermal Resistance, R</th>
<th>Compressive Strength, psi</th>
<th>Flexural Strength, psi</th>
<th>Water Absorption, %</th>
<th>Water Vapor Permeance, perms</th>
<th>Dimensional Stability, %</th>
<th>Coefficient of Linear Thermal Expansion, x10⁻⁶</th>
<th>Complies with ASTM C578, Type</th>
<th>Maximum Use Temperature, °F</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM method</td>
<td>C518</td>
<td>D1621</td>
<td>C203</td>
<td>E96</td>
<td>D2126</td>
<td>3.5</td>
<td>X</td>
<td>165</td>
<td></td>
</tr>
<tr>
<td>DuPont™ Styrofoam™ Cavitymate™</td>
<td>5.0</td>
<td>15</td>
<td>40</td>
<td>0.1</td>
<td>1.5</td>
<td>20</td>
<td>3.5</td>
<td>X</td>
<td>165</td>
</tr>
<tr>
<td>DuPont™ Styrofoam™ Cavitymate™ SC</td>
<td>5.0</td>
<td>15</td>
<td>40</td>
<td>0.1</td>
<td>1.5</td>
<td>20</td>
<td>3.5</td>
<td>X</td>
<td>165</td>
</tr>
<tr>
<td>DuPont™ Styrofoam™ Cavitymate™ Plus</td>
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<td>25</td>
<td>50</td>
<td>0.1</td>
<td>1.5</td>
<td>20</td>
<td>3.5</td>
<td>X</td>
<td>165</td>
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<tr>
<td>DuPont™ Styrofoam™ Cavitymate™ Ultra</td>
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<td>X</td>
<td>165</td>
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<tr>
<td>DuPont™ Styrofoam™ Deckmate™ Plus</td>
<td>5.0</td>
<td>25</td>
<td>50</td>
<td>0.1</td>
<td>1.5</td>
<td>20</td>
<td>3.5</td>
<td>X</td>
<td>165</td>
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<tr>
<td>DuPont™ Styrofoam™ Deckmate™ Plus FA (Flat and Tapered)</td>
<td>5.0</td>
<td>25</td>
<td>50</td>
<td>0.1</td>
<td>1.5</td>
<td>20</td>
<td>3.5</td>
<td>X</td>
<td>165</td>
</tr>
<tr>
<td>DuPont™ Styrofoam™ Perimate™</td>
<td>1.063 R-5.0 2125 R-10.0</td>
<td>30</td>
<td>50</td>
<td>0.1</td>
<td>1.5</td>
<td>20</td>
<td>3.5</td>
<td>X</td>
<td>165</td>
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<tr>
<td>DuPont™ Styrofoam™ Plazamate™</td>
<td>5.0</td>
<td>60</td>
<td>75</td>
<td>0.1</td>
<td>0.8</td>
<td>2.0</td>
<td>3.5</td>
<td>VII</td>
<td>165</td>
</tr>
<tr>
<td>DuPont™ Styrofoam™ Roofmate™</td>
<td>5.0</td>
<td>40</td>
<td>60</td>
<td>0.1</td>
<td>1.0</td>
<td>2.0</td>
<td>3.5</td>
<td>VI</td>
<td>165</td>
</tr>
<tr>
<td>DuPont™ Styrofoam™ Ribbed Roofmate™</td>
<td>5.0</td>
<td>40</td>
<td>60</td>
<td>0.1</td>
<td>1.0</td>
<td>2.0</td>
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<td>VI</td>
<td>165</td>
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<tr>
<td>DuPont™ Styrofoam™ Highload 40</td>
<td>5.0</td>
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<td>60</td>
<td>0.1</td>
<td>1.0</td>
<td>2.0</td>
<td>3.5</td>
<td>VI</td>
<td>165</td>
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<td>DuPont™ Styrofoam™ Highload 60</td>
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<td>60</td>
<td>75</td>
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<td>0.8</td>
<td>2.0</td>
<td>3.5</td>
<td>VII</td>
<td>165</td>
</tr>
<tr>
<td>DuPont™ Styrofoam™ Highload 100</td>
<td>5.0</td>
<td>100</td>
<td>100</td>
<td>0.1</td>
<td>0.8</td>
<td>2.0</td>
<td>3.5</td>
<td>IV</td>
<td>165</td>
</tr>
<tr>
<td>DuPont™ Styrofoam™ Scoreboard™</td>
<td>5.0</td>
<td>25</td>
<td>50</td>
<td>0.1</td>
<td>1.5</td>
<td>2.0</td>
<td>3.5</td>
<td>IV</td>
<td>165</td>
</tr>
<tr>
<td>DuPont™ Styrofoam™ Square Edge™</td>
<td>5.0</td>
<td>25</td>
<td>50</td>
<td>0.1</td>
<td>1.5</td>
<td>2.0</td>
<td>3.5</td>
<td>IV</td>
<td>165</td>
</tr>
<tr>
<td>DuPont™ Styrofoam™ Tongue and Groove</td>
<td>5.0</td>
<td>25</td>
<td>50</td>
<td>0.1</td>
<td>1.5</td>
<td>2.0</td>
<td>3.5</td>
<td>IV</td>
<td>165</td>
</tr>
<tr>
<td>DuPont™ Styrofoam™ UtilityFit™ XPS 15 PSI Insulation</td>
<td>5.0</td>
<td>15</td>
<td>40</td>
<td>0.1</td>
<td>1.5</td>
<td>2.0</td>
<td>3.5</td>
<td>X</td>
<td>165</td>
</tr>
</tbody>
</table>

*These are typical physical properties. Not to be construed as sales specifications.
### Accessories for DuPont™ Tyvek® CommercialWrap® and CommercialWrap® D

- Rodenhose Thermal-Grip® FastCap™ (Thermal-Grip ci washer for Wall2)
- DuPont® Tyvek® Commercial Wrap Cap Screws
- DuPont® StraightFlash™
- DuPont® FlexWrap™
- DuPont® Flashing Tape
- DuPont® Tyvek® Tape

### Accessories for DuPont™ Tyvek® Fluid Applied WB+™

- DuPont® Tyvek® Fluid Applied Flashing and Joint Compound™
  - Full-bodied brush- or trowel-applied vapor-permeable elastomeric flashing material used to coat rough openings for windows and doors, fill seams, cracks and holes in the substrate, to seal around penetrations, and to treat joints and transitions between building components.
- Sealant for DuPont™ Tyvek® Fluid Applied System
  - Vapor-impermeable sealant designed specifically for use with DuPont™ Tyvek® Fluid Applied WB+™ with excellent adhesion and elongation. Used to seal around windows, doors and penetrations.
- DuPont® StraightFlash™
  - Butyl-based self-adhered membrane used for flashing windows and doors, to treat transitions, and for terminations.
- DuPont® FlexWrap™ and DuPont® FlexWrap™ EZ
  - Extendable butyl-based self-adhered flashing materials that efficiently conform around corners and irregular shapes.

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*Note: Not all products are available in all parts of the country. Other product sizes are available on a made-to-order basis. Contact your DuPont representative with questions.*
### DuPont™ Thermax™ and DuPont™ Tuff-R™ polyisocyanurate insulation

<table>
<thead>
<tr>
<th>Properties*</th>
<th>Thermal resistance, R (1,2)</th>
<th>Compressive strength, minimum, core foam, lb/in²</th>
<th>Flexural strength, typical for 1” core foam, lb/in²</th>
<th>Water absorption, after 24 hours, % by volume</th>
<th>Water vapor permeance, perm</th>
<th>Dimensional stability, maximum, % linear change</th>
<th>Compiles with ASTM maximum use temperature, °F</th>
<th>Flame spread, maximum, core foam</th>
<th>Smoke developed, maximum, core foam</th>
<th>Width, in</th>
<th>Length, in</th>
<th>Typical thickness range, core foam, in</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM method</td>
<td>CS18</td>
<td>D1621</td>
<td>C203</td>
<td>C209</td>
<td>E96</td>
<td>D1216</td>
<td>C1289</td>
<td>EB4</td>
<td>E84</td>
<td>0.625</td>
<td>10, 15, 15, 2, 2.5, 3.0</td>
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</tr>
<tr>
<td>DuPont™ Thermax™ (ci) Exterior Insulation</td>
<td>6.5</td>
<td>25</td>
<td>55</td>
<td>0.1</td>
<td>&lt;0.03</td>
<td>4.0</td>
<td>Type I</td>
<td>250</td>
<td>25</td>
<td>190</td>
<td>48</td>
<td>48</td>
</tr>
<tr>
<td>DuPont™ Thermax™ XARMOR™ (ci)</td>
<td>6.5</td>
<td>25</td>
<td>55</td>
<td>0.1</td>
<td>≤0.04</td>
<td>4.0</td>
<td>Type I</td>
<td>250</td>
<td>25</td>
<td>&lt;450</td>
<td>48</td>
<td>48</td>
</tr>
<tr>
<td>DuPont™ Thermax™ Sheathing</td>
<td>6.5</td>
<td>25</td>
<td>40</td>
<td>0.1</td>
<td>&lt;0.03</td>
<td>4.0</td>
<td>Type I</td>
<td>250</td>
<td>25</td>
<td>190</td>
<td>48</td>
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<tr>
<td>DuPont™ Thermax™ Heavy Duty</td>
<td>6.5</td>
<td>25</td>
<td>55</td>
<td>0.1</td>
<td>&lt;0.03</td>
<td>4.0</td>
<td>Type I</td>
<td>250</td>
<td>25</td>
<td>190</td>
<td>48</td>
<td></td>
</tr>
<tr>
<td>DuPont™ Thermax™ Light Duty</td>
<td>6.5</td>
<td>25</td>
<td>55</td>
<td>0.1</td>
<td>&lt;0.03</td>
<td>4.0</td>
<td>Type I</td>
<td>250</td>
<td>25</td>
<td>190</td>
<td>48</td>
<td></td>
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<tr>
<td>DuPont™ Thermax™ Metal Building Board</td>
<td>6.5</td>
<td>25</td>
<td>55</td>
<td>0.1</td>
<td>&lt;0.03</td>
<td>4.0</td>
<td>Type I</td>
<td>250</td>
<td>25</td>
<td>190</td>
<td>48</td>
<td></td>
</tr>
<tr>
<td>DuPont™ Thermax™ White Finish</td>
<td>6.5</td>
<td>25</td>
<td>55</td>
<td>0.1</td>
<td>&lt;0.03</td>
<td>4.0</td>
<td>Type I</td>
<td>250</td>
<td>25</td>
<td>190</td>
<td>48</td>
<td></td>
</tr>
<tr>
<td>DuPont™ Tuff-R™ Commercial Insulation</td>
<td>6.5</td>
<td>25</td>
<td>40</td>
<td>0.1</td>
<td>&lt;0.03</td>
<td>4.0</td>
<td>Type I</td>
<td>250</td>
<td>25</td>
<td>190</td>
<td>48</td>
<td></td>
</tr>
</tbody>
</table>

1) Aged R-value per 1” @ 70°F mean temperature. R-values are expressed in ft²•h•°F/Btu.
2) R means resistance to heat flow. The higher the R-value, the greater the insulating power. R-values determined by ASTM CS18 using the aging process in ASTM C1289 (90 days @ 140°F).
3) Water vapor permeance varies with product type and thickness. Values are based on the desiccant method, and they apply to insulation 1” in thickness. Thicker products have lower permeance.
4) Dimensional stability is for the thickness.
5) Varies with thickness.
6) These numerical flame spread ratings are not intended to reflect hazards presented by this or any other material under actual fire conditions.

Note: Not all products are available in all parts of the country. Other product sizes are available on a made-to-order basis. Custom lengths of DuPont™ Thermax™ insulation products are available for orders of 7,500 board feet or more. Contact your DuPont representative with questions.

### DuPont™ LiquidArmor™ flashing materials

<table>
<thead>
<tr>
<th>Properties*</th>
<th>Application</th>
<th>Chemistry</th>
<th>Application temperature, °F</th>
<th>Application thickness, mils</th>
<th>Tensile (ASTM D412), psi</th>
<th>Elongation (ASTM D412), %</th>
<th>Rain resistance(3), hr</th>
<th>Water vapor transmission (ASTM E96 method B), perms</th>
<th>AAMA 714</th>
</tr>
</thead>
<tbody>
<tr>
<td>DuPont™ LiquidArmor™ CM Flashing</td>
<td>Spray, brush</td>
<td>Water-based acrylic latex</td>
<td>35 - 120</td>
<td>50 ±5</td>
<td>340</td>
<td>270</td>
<td>24</td>
<td>4</td>
<td>—</td>
</tr>
<tr>
<td>DuPont™ LiquidArmor™ LT Flashing</td>
<td>Trowel</td>
<td>Silicone</td>
<td>-20 - 120</td>
<td>30 ±5</td>
<td>210</td>
<td>270</td>
<td>Immediate</td>
<td>3</td>
<td>Y</td>
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<tr>
<td>DuPont™ LiquidArmor™ QS Flashing</td>
<td>Spray, brush</td>
<td>Water-based acrylic latex</td>
<td>40 - 120</td>
<td>50 ±5</td>
<td>190</td>
<td>283</td>
<td>5</td>
<td>4</td>
<td>Y</td>
</tr>
</tbody>
</table>

1) Evaluated in laboratory testing at 75°F and 50% humidity. Exact performance will vary depending on actual job site conditions.
2) These are typical physical properties. Not to be construed as sales specifications.
### DuPont™ Froth-Pak™ polyurethane foam insulation

<table>
<thead>
<tr>
<th>Properties*</th>
<th>Flexural strength, parallel, lb/in²</th>
<th>Thermal resistance, R-value per inch, °F/ft</th>
<th>Compressive strength, parallel, lb/in²</th>
<th>Compressive strength, perpendicular, lb/in²</th>
<th>Shear strength, parallel, lb/in²</th>
<th>Apparent core density, lb/ft³</th>
<th>Water absorption, % by volume</th>
<th>Water vapor permeance @ 1″, µg.mm/m²/s/Pa</th>
<th>Cure time, min</th>
<th>Application temperature, °F</th>
<th>Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM method</td>
<td>C203</td>
<td>CS18</td>
<td>D1621</td>
<td>C273</td>
<td>D1622</td>
<td>D2842</td>
<td>E96</td>
<td>Tack-free(2) &lt;1 min</td>
<td>60 - 90</td>
<td>Selection of kit sizes and refill systems available</td>
<td></td>
</tr>
<tr>
<td>DuPont™ Froth-Pak™ Foam Insulation (CLASS A)</td>
<td>22.7</td>
<td>5.6(6)</td>
<td>211</td>
<td>16.7</td>
<td>2.0</td>
<td>2.17</td>
<td>3.9</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

*1 Aged R-value: 90 days @ 140°F Initial R-value: 6.6
*2 Actual cure time will depend on temperature, foam thickness, specific nozzle used, etc.

### Polyurethane foam sealants and adhesives

<table>
<thead>
<tr>
<th>Properties*</th>
<th>Cure time</th>
<th>Size</th>
<th>Yield(8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DuPont™ Enerfoam™ Professional Foamed Sealant</td>
<td>Tack-free &lt;20 min; trim in 30 min</td>
<td>24 oz can, reusable straw</td>
<td>775 ft; 970 ft, 1,450 ft</td>
</tr>
<tr>
<td>Great Stuff Pro™ Gaps &amp; Cracks(2)</td>
<td>Tack-free &lt;6 min; trim in 30 min; full cure in 1 hr</td>
<td>24 oz can, reusable straw</td>
<td>775 ft(3); 970 ft(3), 995 ft(3), 1,450 ft(3)</td>
</tr>
<tr>
<td>Great Stuff Pro™ Window &amp; Door(2)</td>
<td>Tack-free &lt;9 min; trim in 1 hr; full cure in 12 hr</td>
<td>20 oz can, reusable straw</td>
<td>6-9 windows(4); 8-11 windows(4), 8-11 windows(4), 11-14 windows(4)</td>
</tr>
<tr>
<td>DuPont™ Insta Stik™ Quik Set(5)</td>
<td>Tack-free 3-7 min, depending on humidity</td>
<td>30 lb canister only (23 lb net chemical weight)</td>
<td>Refer to E-Z Estimating Guide</td>
</tr>
<tr>
<td>DuPont™ Tile Bond™(6)</td>
<td>Tack-free 5-15 min</td>
<td>23 lb complete (canister with gun/hose assembly)</td>
<td>Up to 375 field tiles for 23 lb tank</td>
</tr>
</tbody>
</table>

*6 Estimated yield under ideal conditions based on gun foam, 3/8” bead.
*7 For estimated yields at other product sizes, bead sizes and conditions, contact your DuPont representative.
*8 Actual cure time will depend on temperature, relative humidity and size of foam bead.
*9 Estimated yield under ideal conditions based on gun foam, 3/8” bead.

### DuPont™ self-adhered flashing products

<table>
<thead>
<tr>
<th>Properties*</th>
<th>Face sheet</th>
<th>Adhesive(7)</th>
<th>Thickness</th>
<th>Release liner</th>
<th>Dimensions (width x length)</th>
<th>Features</th>
<th>Applications</th>
</tr>
</thead>
</table>
| DuPont™ DuraGard™ CM Transition Flashing | Polyester fiber | Modified butyl | 45 mils (143 µm) | Siliconized polyester film | 6″, 9″, 12″, 18″, 24″ or 36″ x 75″ | • 6 months of UV protection  
• Low-temperature application capability (25°F)  
• AAMA 711-20, Class A (no primer); Level 3 Thermal Exposure | Through-wall, roof-to-wall, parapet, wall-to-below-grade, balcony transitions; above window kick-outs; wall offsets; rough window openings |
| DuPont™ FlexWrap™ | Microcreped polyethylene laminate (white) | Butyl rubber (black) | 64 mil (1,620 µm) | 1-piece, heavy-duty siliconized paper for 6″ width; 2-piece, heavy-duty siliconized paper for 9″ width | 6″ or 9″ x 75″, 9″ x 15″ | • UV resistance: Cover in 270 days  
• AAMA 711-13, Class A (no primer); Level 3 Thermal Exposure  
• Low-temperature application capability (25°F) | Round-top or custom-shaped windows, 3D sill protection, wall interruptions (e.g., dryer vents, hose bibs); suitable for use on substrates where fasteners cannot be applied |
| DuPont™ FlexWrap™ EZ | Microcreped polyethylene laminate (white) | Butyl rubber (black) | 64 mil (1,620 µm) | 2-piece, heavy-duty siliconized, scored release paper | 2⅔″ x 15″ | • Wall penetrations (e.g., round pipes, electrical boxes, wires, dryer vents, hose bibs, etc.) | Jambbs and heads of rectangular windows |
| DuPont™ StraightFlash™ | Spunbonded polyethylene laminate (white) | Butyl rubber (black) | 30 mil (760 µm) | 2-piece, heavy-duty siliconized, scored release paper | 4″ x 150″, 9″ x 125″ | • Low-temperature application capability (25°F) | Brick mold, nonintegral flanged and nonflanged rectangular windows and doors |
| DuPont™ StraightFlash™ VF | Spunbonded polyethylene laminate (white) | Transposed dual-sided adhesive for continuous integration; butyl rubber (black) | 30 mil (760 µm) | 2-piece, heavy-duty siliconized, scored release paper | 6″ x 125″, 6″ x 25″ | • Low-temperature application capability (25°F) | Brick mold, nonintegral flanged and nonflanged rectangular windows and doors |

*7 Adhesive system is based on 100% butyl elastomer with no asphalt/modified bitumen components.
*8 These are typical physical properties. Not to be construed as sales specifications.
Beyond all six sides

Ensuring adequate protection for buildings is just the start. Beyond the buildings themselves, infrastructure projects – including highways, railways and even buried utilities – are prone to damage from frost heaving and spring breakup. Contact your DuPont representative to discover how our high-performance insulation solutions for geotechnical applications can help minimize harm from nature’s demanding thermal challenges.

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