

# NELSON

Cincinnati, Ohio

March 13, 2020

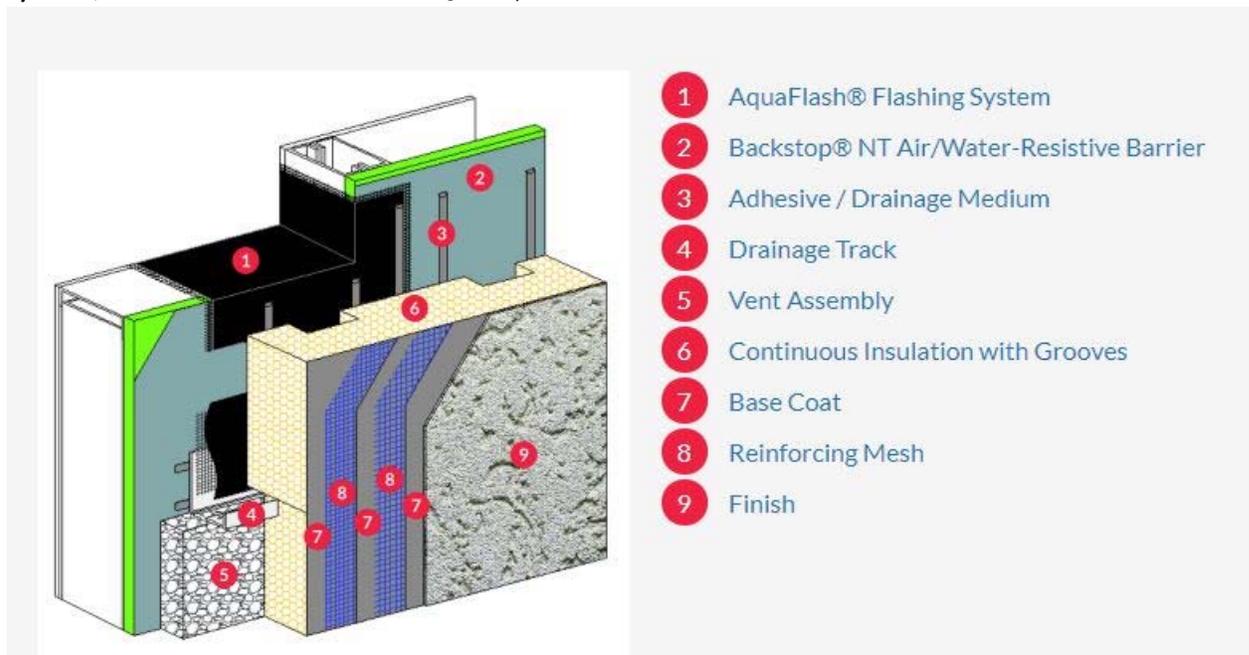
Heather Lamboy, AICP  
Planning supervisor  
City of Aurora Planning Department  
15151 E. Alameda Parkway, Ste. 2300  
Aurora, Colorado 80012

Re: **Aurora Field House**  
**Aurora Colorado**  
**Aurora Application Number DA-1105-16 / Case Number 1985-6028-26**  
**Nelson Job No: 19.0004365.006**

Dear Ms. Lamboy:

We are requesting a Major Adjustment to be approved by the City of Aurora for the Aurora Field House Project to be located at 14200 E. Alameda Avenue, Unit 4A. Specifically, we are requesting approval of an Exterior Insulation Finish System for approximately 60% of the exterior building skin, which would be an exception to section 4.8 of the Unified Development Ordinance. We believe that the EIFS System we have specified is equal to all of the materials allowed under the Ordinance for the following reasons:

1. The specified product for the project is Dryvit Outsulation MD System. This is a **moisture-drainage system**, which consists of the following components:



Date

Contact Name - Company

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Unlike the early barrier systems which experienced mold and moisture issues in the 80's and 90's, the **moisture-drainage system** is engineered to allow air circulation in the cavity behind the primary veneer. This allows any moisture that finds its way in to evaporate in the exact same way it would behind a metal panel rainscreen or a brick masonry veneer.

2. IECC 2015, adopted in Aurora Colorado, outlines the requirements for EIFS in Section 1408. This standard is set in place to govern the materials, quality and construction of the exterior wall system. It holds EIFS to the ASTM E2568 standard which governs the following:
  - a. accelerated weathering;
  - b. freeze/thaw;
  - c. salt spray resistance;
  - d. tensile bond adhesion;
  - e. water penetration;
  - f. water resistance;
  - g. physical properties and requirements for EPS;
  - h. alkali resistance of reinforcing mesh;
  - i. fire endurance;
  - j. full-scale multi-story fire test; and
  - k. ignition resistance.

The specified system has been tested and proven to comply with the criteria for each one of these items.

(Analogy: it is like buying a car seat for your child. All car seats are tested to the same safety standards. The more expensive car seat may have more color and pattern options for the fabric, may have a higher advertising budget and be more well-known, but it does not protect your child any better than the less expensive car seat.)

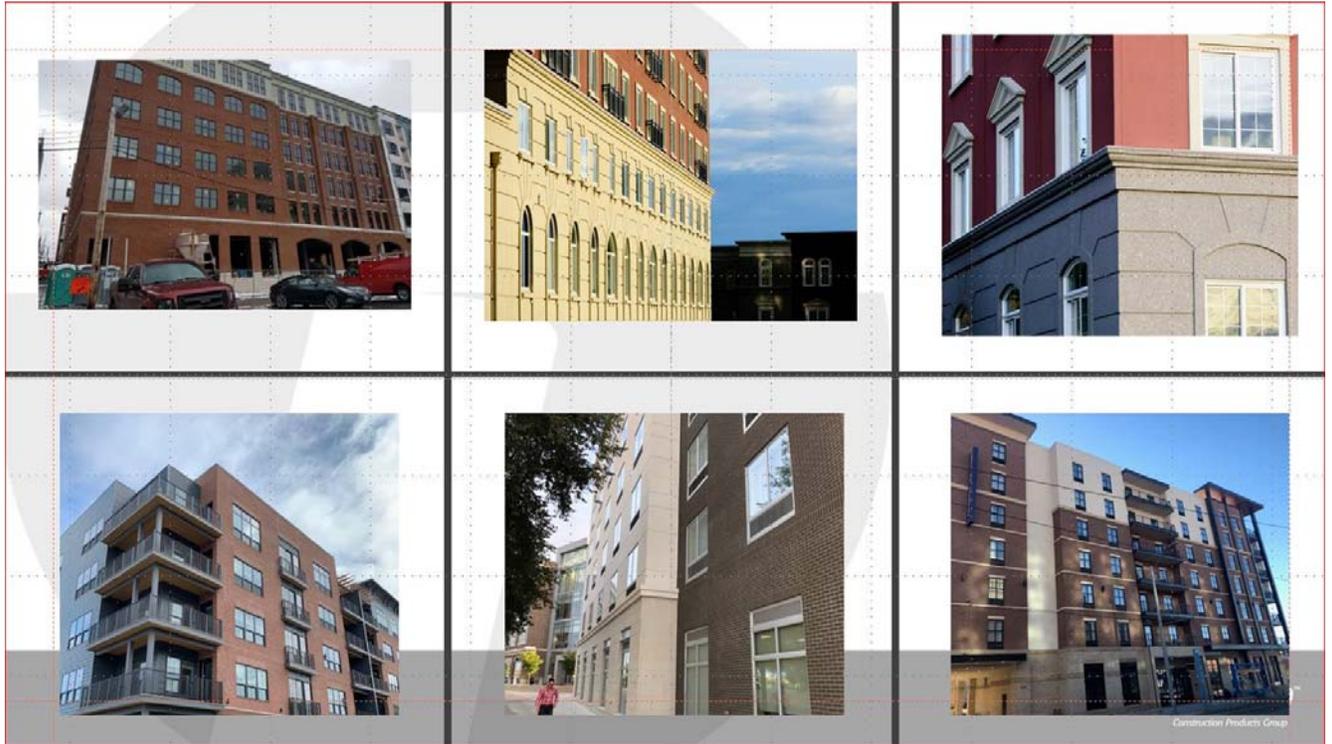
3. Dryvit Outsulation MD offers a 10-year warranty, although Dryvit buildings last much longer than 10 years. The product is installed by a vendor trained and approved by the manufacturer in order to guarantee this warranty.
4. With proper maintenance, Dryvit buildings can last much longer than 10 years. Maintenance on the system is minimal, including periodic washing and recaulking of joints.
5. In the retail and entertainment industry most buildings are aesthetically refreshed/rebranded within a ten-year timeframe. EIFS can be easily repainted or recoated for a fresh new look.
6. EIFS offers a wide variety of color and finish options. While appearance is subjective, one could argue that the visual difference between 3-coat stucco and EIFS is non-existent, at least in terms of color and texture. Stucco actually requires more frequent jointing (control joints are typically recommended at 15'-0" on

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center), which can create more vulnerability to water infiltration, and be a bigger maintenance issue. The follow are photos of EIFS exteriors:



7. The IECC 2015, adopted in Aurora Colorado requires a continuous insulation value of  $R=7.5$  for climate zone 5b. EIFS includes continuous insulation as part of the system. The entire system is installed and warranted by one entity. All of the materials approved by UDO 4.8 would need to have continuous insulation and air barrier installed behind them, by separate contractors, which requires additional coordination to ensure weathertightness.

Thank you for your consideration of our request.

Kind Regards,

Cassie Koch  
Technical Director

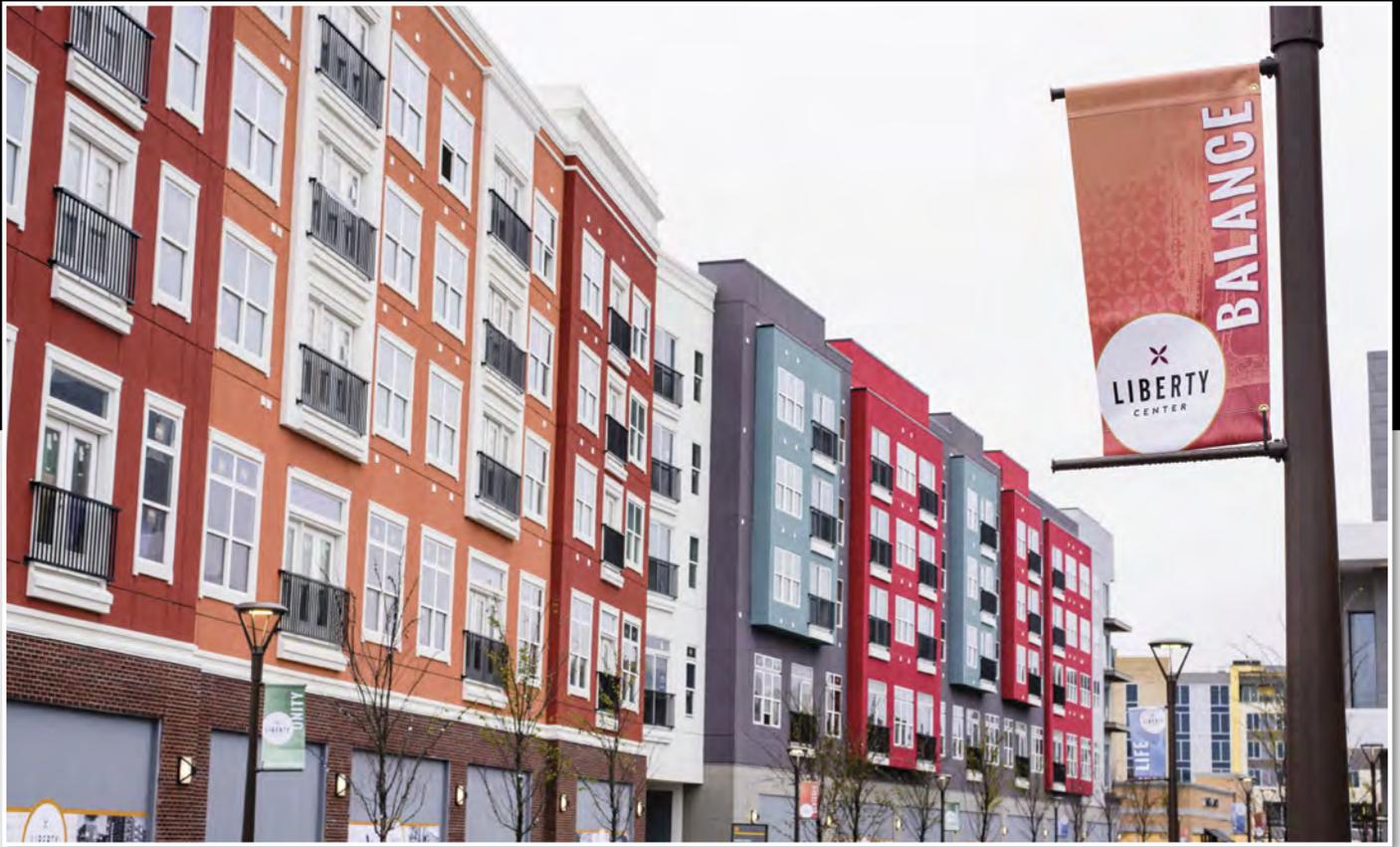
[WWW.NELSONWORLDWIDE.COM](http://WWW.NELSONWORLDWIDE.COM)



# OUTSULATION<sup>®</sup> SOLUTIONS FROM DRYVIT



**Office Buildings**  
Salt Lake City, UT



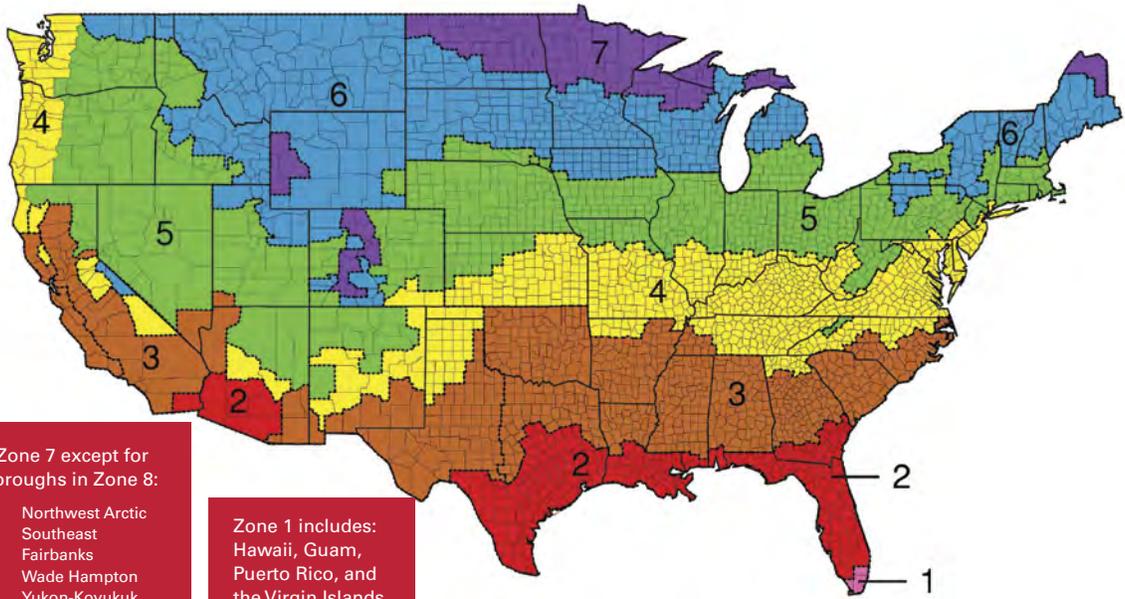
**Liberty Center**  
Columbus, OH

## **WELCOME TO OUTSULATION, BY DRYVIT.**

**As the name suggests, Outsulation systems place insulation on the outside of the building, and are the most effective solution for meeting today's energy code requirements for continuous insulation (CI).**

But there is much more to Outsulation than CI alone. Outsulation systems deliver the latest in building science solutions for building envelopes, resulting in operational energy efficient, cost effective construction, low maintenance, low embodied energy building solution. Outsulation delivers:

- Engineered moisture drainage for incidental moisture
- Air & water resistive barrier membrane
- Anti-crack, impact resistant scrim
- High R-value with continuous insulation
- Durable and seamless finish veneer that provides a range of aesthetically appealing results



All of Alaska in Zone 7 except for the following Boroughs in Zone 8:

Bethel	Northwest Arctic
Dellingham	Southeast
Fairbanks N. Star	Fairbanks
Nome	Wade Hampton
North Slope	Yukon-Koyukuk

Zone 1 includes: Hawaii, Guam, Puerto Rico, and the Virgin Islands.

## ENERGY CODES AND CI REQUIREMENTS

The Department of Energy (DOE) has mandated that all states comply with the ASHRAE 90.1-2010 design standard by September 26, 2016, which requires the use of continuous insulation (CI) on commercial buildings in over 90 percent of the United States. Other design standards and codes — such as ASHRAE 189.1, IECC 2012, IgCC 2012; Title 24, (Section 6) and CALGreen — will also require the use of CI, as well as air barriers, as they become adopted. The bottom line is that nearly all new commercial projects in the U.S. will soon require the use of an air barrier and CI as an integral part of exterior wall construction.

CI is much more efficient than the use of insulation in the wall cavity, and 2 inches of CI can have the effective R-value of 8 inches of cavity (batt type) insulation! As such, consider eliminating the use of cavity insulation altogether by using the right amount of CI to meet your total exterior wall insulation goals. An empty wall cavity improves airflow and reduces the dirt and moisture retention associated with batt insulation.

Rigid insulation, such as Expanded Polystyrene (EPS), can also be easily cut and shaped to provide dramatic architectural details and design effects, such as reveals, quoins, cornices and trim, that are much more difficult and expensive to achieve with heavier materials. Using an Outsulation system to combine the design flexibility and CI benefits of EPS is unique and extremely cost-effective.



**Ronald McDonald House**  
Salt Lake City, UT



**Sarkis & Siran Gabrellian  
Child Care Learning Center**  
Hackensack, NJ

## SYSTEM OPTIONS:

All Outsulation systems include adhesive, continuous insulation (CI), fiberglass mesh embedded in base coat, and finish, which are installed sequentially by a trained professional contractor as specified by the design team, and as required by code. Some Outsulation systems protect the underlying wall with an air- and water-resistive barrier under the CI, which maximizes the energy efficiency. Outsulation systems can be installed in either “barrier,” “moisture drainage” or “pressure equalized” configurations, and these systems are engineered to perform in all climates and on all types of structures. On certain types of construction (high-rise) and in certain job conditions (cold weather), lift-in-place, prefabricated wall sections may provide certain benefits.

## HOW IT WORKS

Outsulation systems typically consist of the following components, as determined by code and performance requirements.

### BACKSTOP NT® AIR AND WATER-RESISTIVE BARRIER:

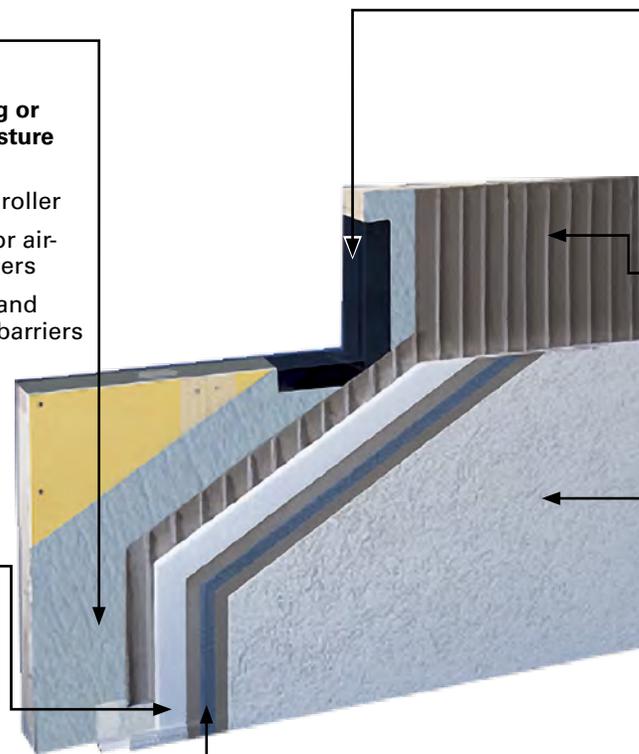
Seamlessly protects sheathing or substrate from incidental moisture and eliminates air infiltration

- Liquid-applied by trowel or roller
- Meets code requirements for air- and moisture-resistive barriers
- Meets ASHRAE 189.1-2009 and ABAA requirements for air barriers
- Far more effective than “sheet good” barriers
- Easier to apply and less costly than “peel and stick” membranes

### CONTINUOUS INSULATION:

Absorbs expected building movement and enhances energy efficiency

- Eliminates thermal bridging in framed construction
- Meets CI requirements for all zones per ASHRAE 90.1-2010
- Available in both EPS (expanded polystyrene) and XPS (extruded polystyrene)
- Available in various thicknesses and can fully meet wall insulation requirements



### AQUAFASH® FLASHING SYSTEM:

Seamlessly protects openings in the building envelope from moisture

- Liquid-applied coating and mesh
- Easier to apply and less costly than “peel and stick” membranes

### ADHESIVE / DRAINAGE MEDIUM:

Vertical notches allow drainage of incidental moisture

- Adheres insulation board to the Backstop NT® Air-and Water-Resistive Barrier

### FINISH COAT:

Blend of 100 percent acrylic copolymers, natural aggregates and UV resistant pigments

- Easy to maintain
- Available in many textures and limitless color options
- Offer multiple aesthetic options
- Options for increased hydrophobicity, flexibility and mildew and fade resistance

### BASE COAT AND REINFORCING MESH:

Combine to provide the primary weather barrier and impact resistance

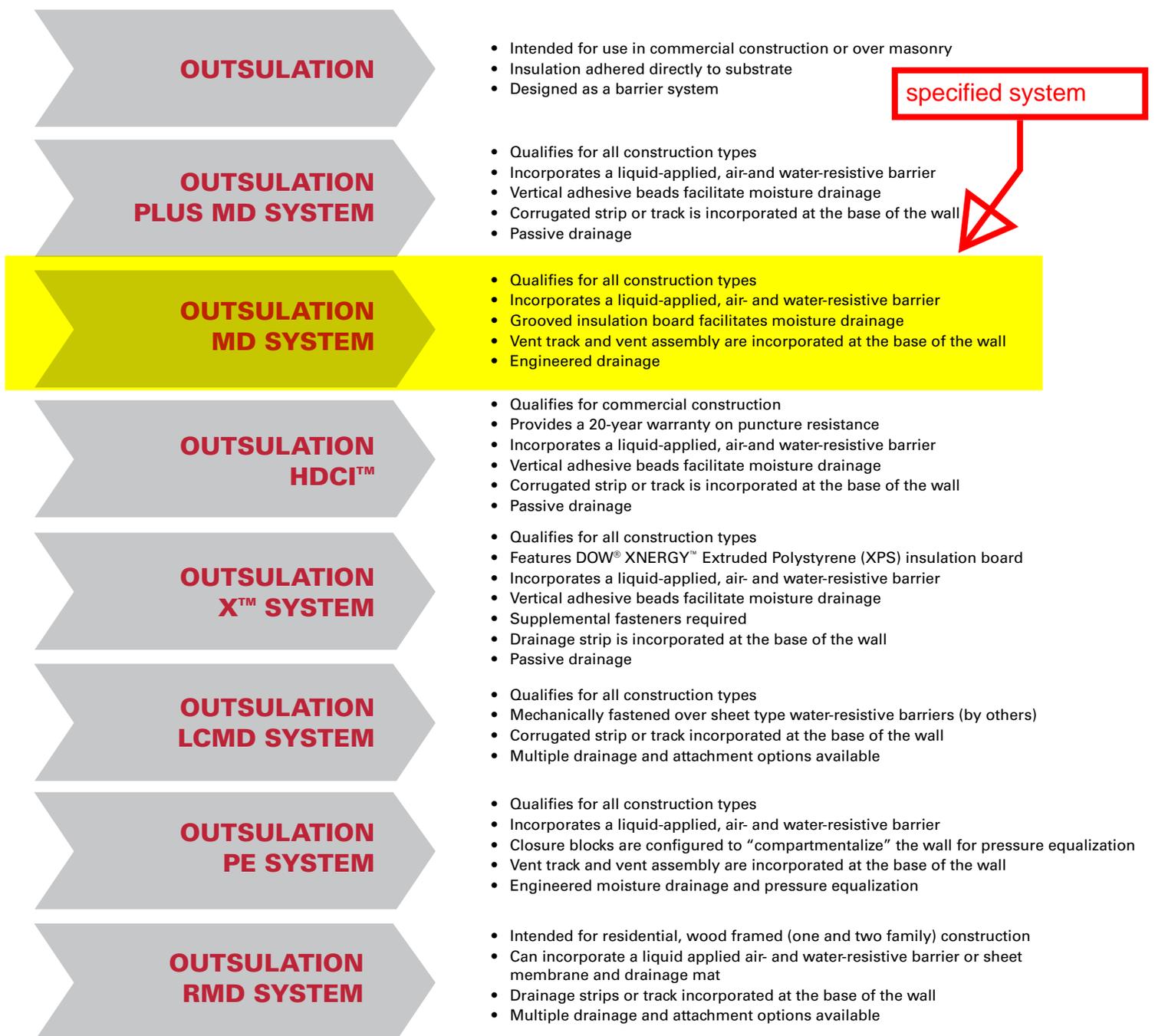
- Mesh embedded in base coat
- Various weights of mesh available, depending on impact resistance required

## SUSTAINABLE SOLUTIONS:

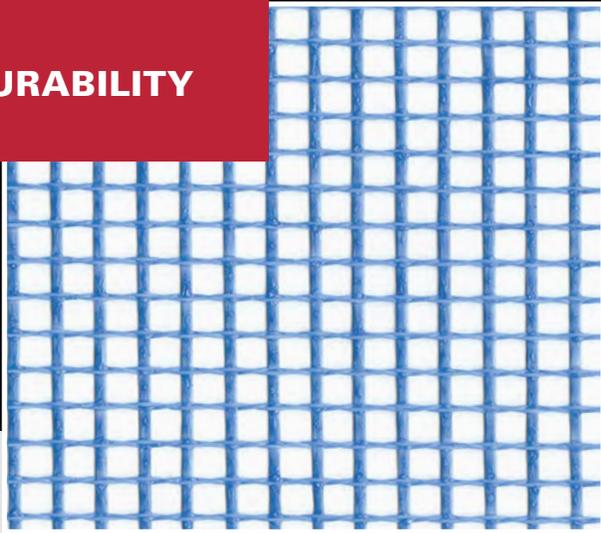
Outsulation systems have been evaluated by the National Institute for Standards and Technology (NIST) and have less environmental impact than other common claddings. They can also contribute toward achieving LEED credits, depending upon project design and location.

Outsulation systems are more cost-effective throughout their lifecycle because the manufacturing process requires less energy than other common claddings, and the lightweight composition reduces fuel costs associated with transport. After application, Outsulation systems continue to keep heating and cooling costs low for the life of the building. Visit [dryvit.com](http://dryvit.com) for more information.

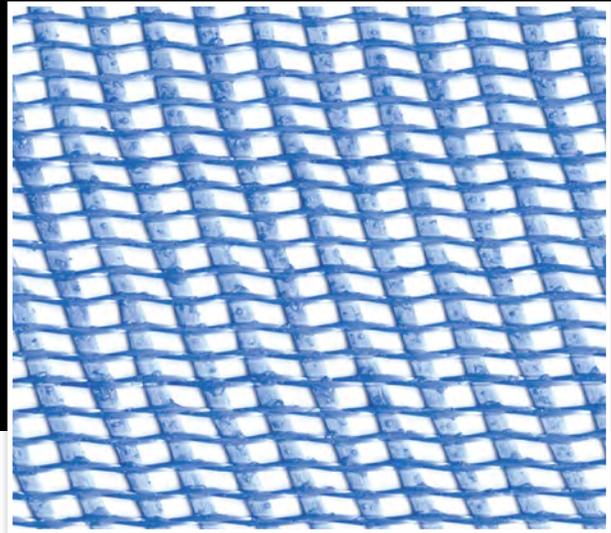
*All Dryvit North American manufacturing facilities are ISO 9001:2008 and ISO 14001:2004 certified.*



## DURABILITY



**Standard™ Mesh**



**Panzer® 20 Mesh**

Provides 10 times (1000%)  
better impact resistance than Standard™ Mesh!

## DURABILITY

**All Outsulation systems incorporate alkali and fire-resistant fiberglass mesh that is embedded into the base coat over the entire surface of the insulation board.**

This combination provides the primary weather barrier, as well as tensile strength and impact resistance for the system, and these factors all play a critical role in protecting the physical integrity and beauty of the building exterior. The mesh is available in several weights and is specified according to the anticipated level of exposure to potentially damaging impact.

The heaviest and strongest — Panzer 20 Mesh — is intended for use at all ground floor locations and high-traffic areas such as balconies. Hurricane-prone regions may have building codes that require assemblies reinforced with Panzer Mesh. Panzer 20 is also the required mesh in Dryvit's Outsulation HDCI system, which comes with a 20-year puncture resistance warranty. Consult Dryvit's Engineering Department or your local Dryvit representative for more information on these circumstances.

### **DRYVIT REINFORCING MESH OPTIONS:**

**Standard™ Mesh:** Recommended for normal-wear applications on the second story and above

**Corner Mesh:** Used to reinforce corners and recommended on all ground-floor applications

**Intermediate™ Mesh:** Recommended for medium-level traffic and impact requirements on the second story and above

**Panzer® 20 Mesh:** Recommended for all high-traffic areas

## AESTHETICS



**Bellagio**  
Las Vegas, NV



**The Stratford**  
Cincinnati, OH



## THE PERFECT SOLUTION FOR ANY DESIGN.

Dryvit Outsulation systems offer unlimited design flexibility to suit any architectural style, and are available with a wide range of finishes that can be customized to meet virtually any color or texture desired.

The ability to easily create a vast array of architectural designs using decorative shapes and reveals is one of the hallmarks of an Outsulation system.

## VENEERS



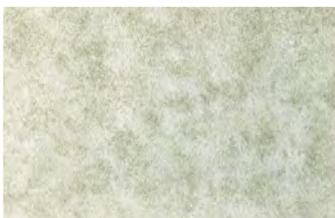
**Seamless Stone**



**Traditional Plaster  
Renders**



**Limestone**



**Old World or "Aged"  
Plaster**



**Metal Panel Effects**



**Brick**

## FINISHES



**Office Building**  
Schenectady, NY

### BRICK VENEER

**Like the traditional look and feel of brick? No problem. Dryvit provides the look and feel of brick combined with all the benefits of continuous insulation that results in a highly energy efficient brick wall.**

Dryvit provides the latest in brick wall technology that includes a water management system and a high R-value through the use of CI that meets the latest building code. All backed by a single source warranty that covers the entire assembly from the air/water-resistive barrier to final brick veneer.

With Dryvit, brick options abound: solid colors, blends and flashed brick; textures such as iron spot, wire cut, and velour are all possible. Already selected a style of brick? Dryvit offers customized color and texture solutions that will meet most design schemes. Consult your Dryvit distributor for all the options available.

### AVAILABLE IN UNLIMITED COLORS, TEXTURES AND PATTERNS



**Used Wall Brick**



**Brooklyn Brick**



**Utility Brick**



**Office Building**  
Salt Lake City, UT

**TERRANEO®**

T E R R a N E O ®

**Like clay brick, granite is heavy and energy-intensive to find, produce and transport, and it can take months to get materials from the quarry to the jobsite.**

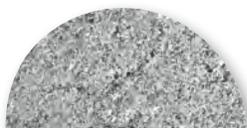
Made from a blend of quartz, minerals, and mica, TerraNeo finish offers a 21st century alternative to granite that is environmentally sustainable, readily available, easy to apply and, best of all, looks fantastic!

### **AVAILABLE IN 10 STANDARD COLORS**

Custom matches to an existing building or granite sample can be developed.



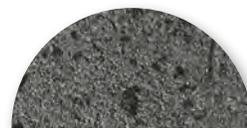
**Everest**



**Glacier**



**Andes**



**Amazon**



**Serengeti**



**Vesuvius**



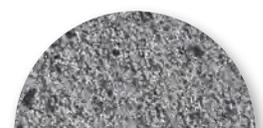
**Sonora**



**Teton**



**Zanzibar**



**Gibraltar**

Mica Colors: Available in silver/white, gold and black.



Hyatt Place  
St. Louis, MO

**REFLECTIT™**

***Reflectit™***

Reflectit finish offers a rich, pearlescent look that can be used to coat other textured Dryvit finishes, or to achieve a smooth, metal panel look. With Reflectit, you can make your next project literally shine!

**AVAILABLE IN 12 STANDARD COLORS**

Custom colors are available upon request.



250  
Teal Magnolia



251  
Starry Night



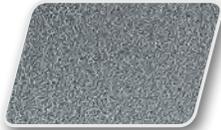
252  
Hammered Copper



253  
Cleopatra



254  
Sierra Rose



255  
Tin Man



256  
Mediterranean



257  
Champagne



258  
Barney



259  
Maize



260  
Caribbean



261  
Chili Pepper



**Retail Center**  
Sioux Falls, SD

## **TEXTURED FINISHES**

**Dryvit also offers numerous finish textures more commonly associated with the look of stucco, concrete and limestone.** Made from a blend of 100 percent acrylic polymers, high-performance pigments, natural aggregates and utilizing DPR (Dirt Pickup Resistant) chemistry, they are beautiful, durable, and can be stained after drying to provide a dazzling old-world or antique look.

### **AVAILABLE IN A WIDE VARIETY OF STANDARD TEXTURES**



**Sandpebble™**



**Sandpebble Fine™**



**Quarzputz®**



**Freestyle®**



**Sandblast®**

## PERFORMANCE ENHANCEMENTS



**High School**  
Anchorage, AK

### **HIGH STYLE MEETS HIGH PERFORMANCE.**

**All Dryvit finishes are formulated with superior quality raw materials and have been thoroughly tested to perform in a wide range of expected conditions, but options exist to further enhance performance in particularly harsh or challenging environments.**

**Assisted Living Facility**  
Cincinnati, OH





**Shopping Center**  
Phoenix, AZ

## THESE INCLUDE:

**Fade resistance:** High-performance pigments are used to formulate vivid colors that would otherwise be prone to rapid UV breakdown. This state-of-the-art technology is also VOC and APEO free. Refer to DS269.

**Elasticity:** Special elastomeric and proprietary “V Rock” technology is used to provide increased flexibility, which performs exceptionally well when used in finishes applied directly to stucco or other rigid surfaces. Refer to DS249.

**Hydrophobicity:** Advanced water-repellent technology minimizes dirt accumulation and helps keep the wall looking like new. Refer to DS267.

**Mildew resistance:** Dryvit’s “PMR” technology utilizes advanced biocides for use in damp or shady environments where algae or mildew growth is likely. Refer to DS223.





## **MULTIPLE BENEFITS OF USING OUTSULATION SYSTEMS**

**Using Outsulation Systems can reduce material use, shorten construction time, and lower building operating costs, and architects, contractors and building owners enjoy these measurable benefits every day. Fred Quinn of Quinn & Associates is one such architect. He chose the Outsulation Plus MD system for the Metro Career Academy in Oklahoma City, and exceeded the expectations of the project stakeholders by using the energy efficient, design-flexible, single-source cladding.**

Brick is so common in Oklahoma City that a section of the city is actually nicknamed “Bricktown,” so it was logical that the original design of the Metro Career Academy building specified 24,000 square feet of clay brick and 13,000 square feet of cast stone. Knowing the high price for both these materials and their installation, Quinn was open to considering a more cost-effective and sustainable solution, as long as his aesthetic intent could be maintained. Dryvit’s Outsulation Plus MD System with Custom Brick™ and Limestone™ finish fully met both objectives.

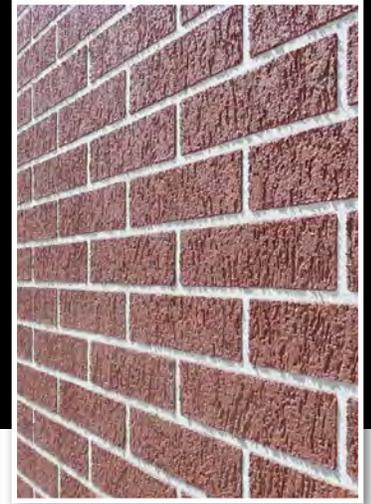


Find out more  
and watch a  
video case  
study

**Architect:**  
Quinn & Associates  
Oklahoma City, OK

**General Contractor:**  
CMS Willowbrook  
Oklahoma City, OK

**Dryvit Applicator:**  
DMG Masonry  
Arlington, TX



## PROJECT HIGHLIGHTS:

### MATERIAL SAVINGS

Outsulation Plus MD (using 4 inches of EPS) allowed the construction team to achieve the performance R-values required of the exterior wall, and eliminate the use of cavity insulation entirely. Substituting the 1.5-pound per square foot Outsulation Plus MD system for the 40-plus pounds per square foot masonry reduced the amount of concrete and structural steel needed to support the weight of the wall, and overall, 1.4 million pounds of materials — 96 percent of the original cladding weight — were eliminated from use!

### LABOR SAVINGS

All components of the Outsulation Plus MD System were installed by a single trained subcontractor, simplifying the construction schedule.

### CONSTRUCTION TIME SAVINGS

Using less structural material and a single contractor for the Outsulation Plus MD system reduced overall construction time by 15 weeks, which saved money and enabled the owner to move into his building ahead of schedule.

### SINGLE WARRANTY

Outsulation systems are engineered, tested and fully-warranted by Dryvit, whereas a brick wall is composed of a variety of materials supplied by different manufacturers.

### LEED CERTIFICATION

The Outsulation Plus MD system contributed to earning maximum EA category credits and LEED Gold certification.

### ENERGY SAVINGS

Measured against the modeled performance of an identical structure built to meet local building and energy codes, this building was predicted to have an energy savings of 34.8 percent and an energy cost reduction of 42.8 percent annually. After one full year, the actual energy cost reduction was 52.6 percent — more than the modeled expectation!

By choosing Dryvit's Outsulation Plus MD system, the design and construction team were able to meet the owner's aesthetic and performance goals ahead of time, and under budget. With numerous challenges to overcome and ambitious goals to meet, Outsulation by Dryvit delivered measurable results above and beyond expectation, and will continue to do so for the lifetime of the building.

## **BUILDING ENERGY CODES ARE CHANGING.**

**The international movement to improve energy performance and lower environmental impact is dramatically affecting the way buildings must be designed and built, particularly with the requirements for air barriers and continuous insulation. Outsulation by Dryvit is a tested and proven solution to this challenge.**

Best of all, with Outsulation systems, performance and aesthetics aren't mutually exclusive. The wide variety of finishes, textures and colors can make nearly any architectural vision a reality.

The benefits of Outsulation have been realized in hundreds of thousands of projects around the world, and the systems provide a single-source, seamless and sustainable cladding solution for buildings of any shape, size and type.

Simply put, Outsulation systems provide everything you need from a building code perspective, and everything you want from a performance and aesthetic standpoint.

**Visit [dryvit.com](http://dryvit.com) or call 800-556-7752 to learn more about Outsulation by Dryvit.**



Dryvit Systems, Inc.  
One Energy Way  
West Warwick, RI 02893  
401-822-4100  
[dryvit.com](http://dryvit.com)

Information contained in this brochure conforms to the standard detail recommendations and specifications for the installation of Dryvit Systems, Inc. products as of the date of publication of this document and is presented in good faith. Dryvit Systems, Inc. assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any product. To ensure that you are using the latest, most complete information, contact Dryvit Systems, Inc.

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DS266



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VS

### DRYVIT OUTSULATION SYSTEMS

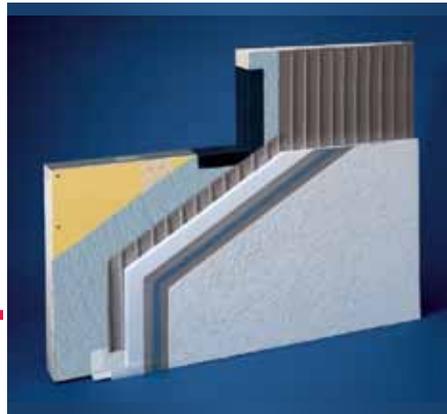
### BRICK

ATTRIBUTES	DRYVIT OUTSULATION SYSTEMS	BRICK
Construction Method	Field Applied or Pre-Fabricated	Field Applied or Pre-Fabricated
Product Lead Times	Short	Medium
Construction Coordination	Simple	Challenging
Single Source Wall Assembly Warranty	Yes	No
Shop Drawings	Pre-Fabricated Only	Pre-Fabricated Only
Wall Attachment	Adhered - No Penetrations	Supported - Anchor Penetrations
Repairability	Easily Coordinated	Challenging
Life Expectancy	Design Life of the Building	Design Life of the Building
Weight - lbs /sq ft	1.0 - 2.0 lbs / sq ft	40 - 50 lbs / sq ft
Wall Height Limitation	No	Limited by Capacity of Building Structure
ENERGY CODE COMPLIANCE		
Integrated Continuous Insulation (CI)	Yes	No
Integrated Air Barrier*	Yes	No
Material Air Leakage*	Yes	Yes
Assembly Air Leakage*	Yes	No
Thermal Bridging	No Thermal Breaks	Thermal Bridging at Anchors
R-value Contribution	Yes	No
ARCHITECTURAL DIVERSITY		
Freedom for Architectural Style	Yes	Limited
Various Texture Options	Yes	Limited
Custom Color Program	Yes	Limited
High Performance Colorant Technology	Yes	No
PERFORMANCE TESTED		
Weatherability	Yes	No
Drainage Efficiency Tested	Yes	No
Water Penetration	Yes	No
DURABILITY TESTED		
Impact Resistance	Standard to Ultra-High	High
STRUCTURAL TESTED		
Florida NOA Hurricane Listed	Yes	No
Transverse Wind Load	Yes	No
FIRE TESTED**		
NFPA 285 "Material" Tested	Yes	N/A
NFPA 285 "Wall Assembly" Tested	Yes	No

\*For Dryvit systems with secondary air/weather barriers \*\*Applicable where continuous insulation is used For complete system information and testing, visit [dryvit.com](http://dryvit.com)



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### DRYVIT OUTSULATION SYSTEMS

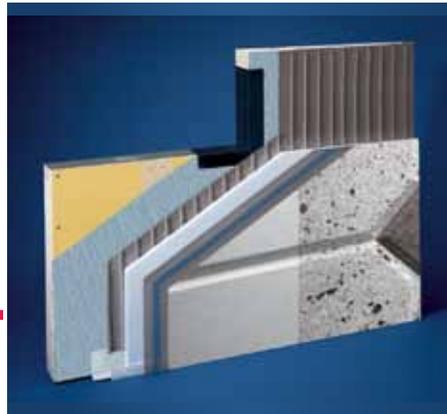
### CONVENTIONAL STUCCO

ATTRIBUTES	DRYVIT OUTSULATION SYSTEMS	CONVENTIONAL STUCCO
Construction Method	Field Applied or Pre-Fabricated	Field Applied
Product Lead Times	Short	Quick
Construction Coordination	Simple	Relatively Simple
Single Source Wall Assembly Warranty	Yes	No
Shop Drawings	Pre-Fabricated Only	No
Wall Attachment	Adhered - No Penetrations	Bonded - Lath Fastener Penetrations
Repairability	Easily Coordinated	Easily Coordinated
Life Expectancy	Design Life of the Building	Design Life of the Building
Weight - lbs /sq ft	1.0 - 2.0 lbs / sq ft	8 - 12 lbs / sq ft
Wall Height Limitation	No	No
ENERGY CODE COMPLIANCE		
Integrated Continuous Insulation (CI)	Yes	No
Integrated Air Barrier*	Yes	No
Material Air Leakage*	Yes	No
Assembly Air Leakage*	Yes	No
Thermal Bridging	No Thermal Breaks	Thermal Bridging at Joints and Fasteners
R-value Contribution	Yes	No
ARCHITECTURAL DIVERSITY		
Freedom for Architectural Style	Yes	No
Various Texture Options	Yes	Limited
Custom Color Program	Yes	Limited
High Performance Colorant Technology	Yes	No
PERFORMANCE TESTED		
Weatherability	Yes	No
Drainage Efficiency Tested	Yes	No
Water Penetration	Yes	No
DURABILITY TESTED		
Impact Resistance	Standard to Ultra-High	High
STRUCTURAL TESTED		
Florida NOA Hurricane Listed	Yes	Not Tested / Grandfathered Into Code
Transverse Wind Load	Yes	No
FIRE TESTED**		
NFPA 285 "Material" Tested	Yes	N/A
NFPA 285 "Wall Assembly" Tested	Yes	No

\*For Dryvit systems with secondary air/weather barriers \*\*Applicable where continuous insulation is used For complete system information and testing, visit [dryvit.com](http://dryvit.com)



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VS

### DRYVIT OUTSULATION SYSTEMS

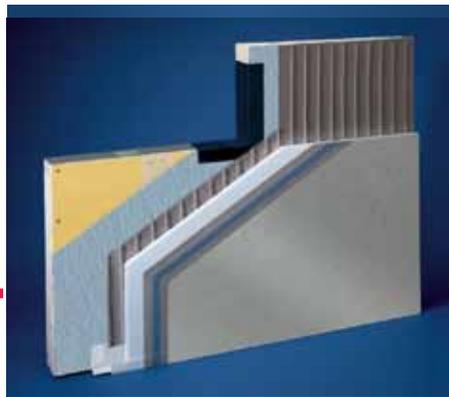
### GRANITE AND LIMESTONE

ATTRIBUTES	DRYVIT OUTSULATION SYSTEMS	GRANITE AND LIMESTONE
Construction Method	Field Applied or Pre-Fabricated	Field Applied or Pre-Fabricated
Product Lead Times	Short	Long
Construction Coordination	Simple	Challenging
Single Source Wall Assembly Warranty	Yes	No
Shop Drawings	Pre-Fabricated Only	Yes
Wall Attachment	Adhered - No Penetrations	Supported - Anchor Penetrations
Repairability	Easily Coordinated	Challenging
Life Expectancy	Design Life of the Building	Design Life of the Building
Weight - lbs /sq ft	1.0 - 2.0 lbs / sq ft	40 - 60 lbs / sq ft
Wall Height Limitation	No	Limited by Capacity of Building Structure
ENERGY CODE COMPLIANCE		
Integrated Continuous Insulation (CI)	Yes	No
Integrated Air Barrier*	Yes	No
Material Air Leakage*	Yes	No
Assembly Air Leakage*	Yes	No
Thermal Bridging	No Thermal Breaks	Thermal Bridging at Anchors
R-value Contribution	Yes	No
ARCHITECTURAL DIVERSITY		
Freedom for Architectural Style	Yes	Limited
Various Texture Options	Yes	Limited
Custom Color Program	Yes	No
High Performance Colorant Technology	Yes	No
PERFORMANCE TESTED		
Weatherability	Yes	No
Drainage Efficiency Tested	Yes	No
Water Penetration	Yes	No
DURABILITY TESTED		
Impact Resistance	Standard to Ultra-High	High
STRUCTURAL TESTED		
Florida NOA Hurricane Listed	Yes	No
Transverse Wind Load	Yes	No
FIRE TESTED**		
NFPA 285 "Material" Tested	Yes	N/A
NFPA 285 "Wall Assembly" Tested	Yes	No

\*For Dryvit systems with secondary air/weather barriers \*\*Applicable where continuous insulation is used For complete system information and testing, visit [dryvit.com](http://dryvit.com)



An RPM Company



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### DRYVIT OUTSULATION SYSTEMS

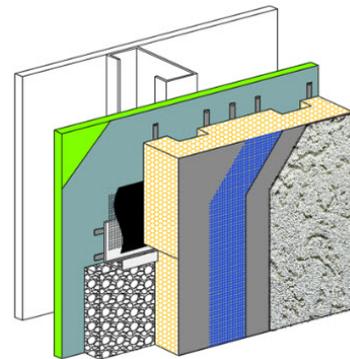
### METAL PANELS

ATTRIBUTES	DRYVIT OUTSULATION SYSTEMS	METAL PANELS
Construction Method	Field Applied or Pre-Fabricated	Pre-Fabricated
Product Lead Times	Short	Long
Construction Coordination	Simple	Challenging
Single Source Wall Assembly Warranty	Yes	No
Shop Drawings	Pre-Fabricated Only	Yes
Wall Attachment	Adhered - No Penetrations	Mechanical - Framing System with Fastener Penetrations
Repairability	Easily Coordinated	Challenging
Life Expectancy	Design Life of the Building	Design Life of the Building
Weight - lbs /sq ft	1.0 - 2.0 lbs / sq ft	1.0 - 2.0 lbs / sq ft
Wall Height Limitation	No	Yes - Product / System / Construction Type Specific
ENERGY CODE COMPLIANCE		
Integrated Continuous Insulation (CI)	Yes	No
Integrated Air Barrier*	Yes	No
Material Air Leakage*	Yes	Yes
Assembly Air Leakage*	Yes	No
Thermal Bridging	No Thermal Breaks	Thermal Bridging at Joints / Edges and Attachments
R-value Contribution	Yes	Yes - Insulated - Does Not Meet Intent of Energy Code for CI
ARCHITECTURAL DIVERSITY		
Freedom for Architectural Style	Yes	No
Various Texture Options	Yes	Limited
Custom Color Program	Yes	Yes
High Performance Colorant Technology	Yes	Yes
PERFORMANCE TESTED		
Weatherability	Yes	Yes
Drainage Efficiency Tested	Yes	No
Water Penetration	Yes	Yes
DURABILITY TESTED		
Impact Resistance	Standard to Ultra-High	Low to High
STRUCTURAL TESTED		
Florida NOA Hurricane Listed	Yes	Yes
Transverse Wind Load	Yes	Yes
FIRE TESTED**		
NFPA 285 "Material" Tested	Yes	Yes - Certain Types / Verify Compliance
NFPA 285 "Wall Assembly" Tested	Yes	Yes - Certain Types / Verify Compliance

\*For Dryvit systems with secondary air/weather barriers \*\*Applicable where continuous insulation is used For complete system information and testing, visit [dryvit.com](http://dryvit.com)

# Outsulation<sup>®</sup> MD System<sup>®</sup>

An Exterior Wall Insulation and Finish System With Engineered Moisture Drainage That Incorporates Continuous Insulation and An Air/Water-Resistive Barrier



Taking the worry out of the wall by using an advanced design concept - Moisture Drainage For Even Better Wall Performance. Outsulation MD is part of Dryvit's family of high-performance exterior insulation and finish systems for commercial use. Since 1969, architects and owners have looked to Dryvit for excellence in EIFS. For over 50 years, the barrier style, Class PB, Outsulation<sup>®</sup> System has remained essentially as originally designed and has been installed on over 500,000 buildings worldwide. Today, there is increased demand for a wall system to be able to drain away incidental moisture. Dryvit responds to this demand with Outsulation MD.

## FEATURES

- Moisture Drainage
- High-Performance Exterior Insulation
- Reinforced Base Coat
- Specially-Designed, Grooved EPS Board
- Drainage Track and Vent Assembly
- Air/Water-Resistive Barrier
- Waterproof Flashing Material
- Warranty

## COMPONENTS - LOOK INSIDE THE OUTSULATION MD SYSTEM

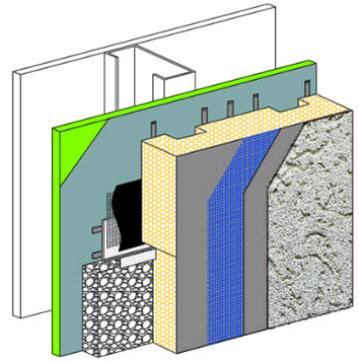
1. Backstop<sup>®</sup> NT<sup>™</sup> Water-Resistive Membrane and Air Barrier (available in Texture, Smooth or Spray)
2. Dryvit Grid Tape<sup>™</sup>
3. Dryvit AquaFlash<sup>™</sup> System or Flashing Tape<sup>™</sup> and Surface Conditioner<sup>™</sup>
4. Dryvit Vent Assembly<sup>™</sup> (not shown)
5. Dryvit Track and Vent Track<sup>™</sup> (not shown)
6. Dryvit AP Adhesive<sup>™</sup> to Adhere Dryvit Track and Vent Track (not shown)
7. Dryvit Adhesive in Vertical Notched Trowel Configuration (not shown)
8. Insulation Board with Channels, creating a layer of continuous insulation
9. Dryvit Reinforced Base Coat
10. Dryvit Finish

# DS443



# Outsulation<sup>®</sup> MD System<sup>®</sup>

An Exterior Wall Insulation and Finish System With Engineered Moisture Drainage That Incorporates Continuous Insulation and An Air/Water-Resistive Barrier



## MOISTURE DRAINAGE TECHNOLOGY

Outsulation MD offers the most comprehensive, easy-to-install drainage system available for commercial use today. It provides three lines of defense against water intrusion. The first is Dryvit's time-tested combination of reinforced base coat and finish. The second is our specially-designed, grooved EPS with drainage track and vent assembly, providing continuous insulation to meet local Energy Codes. The third is Backstop NT, an air/water-resistive barrier. A waterproof flashing material such as Dryvit AquaFlash System or flashing tape is also used to protect sills of wall openings (such as windows). A compatible sealant must be utilized at all system terminations.

## WHY BACKSTOP NT?

The drainage channels present in Outsulation MD will evacuate "incidental" water that, for a variety of reasons, may find its way behind the EPS insulation. Backstop NT prevents this moisture from coming into contact with the substrate, as it drains. Classified in Canada as a Type III air barrier, it is a specially formulated, flexible, polymer-based, noncementitious coating that has proven itself to be a watertight membrane. Backstop NT is an essential element of the Outsulation MD System. Full details regarding the performance of Backstop NT are available upon request from Dryvit.

## WARRANTY

Dryvit Systems, Inc. shall provide a written limited materials warranty upon written request. Dryvit shall make no other warranties, expressed or implied. Dryvit does not warrant workmanship. Full details are available from Dryvit Systems, Inc.

# DS443

Information contained in this product sheet conforms to the standard detail recommendations and specifications for the installation of Dryvit Systems, Inc. products as of the date of publication of this document and is presented in good faith. Dryvit Systems, Inc. assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To ensure that you are using the latest, most complete information, contact Dryvit Systems, Inc.

For more information on [Dryvit Systems](#) or [Continuous Insulation](#), visit these links.

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**12 YEAR LIMITED REPAIR AND REPLACEMENT MATERIAL WARRANTY  
12 YEAR MOISTURE DRAINAGE WARRANTY  
10 YEAR FADE RESISTANCE WARRANTY  
OUTSULATION® MD® SYSTEM**

Dryvit Systems, Inc. ("Dryvit") warrants in the limited manner specified herein that the materials manufactured and sold by Dryvit, including the air and water resistive barrier components, flashing material, insulation board, adhesive, base coat, mesh and finish, shall be free from defects in the manufacture of the materials. For a period of twelve (12) years from the date of substantial completion of the project, when installed in accordance with Dryvit's current published literature under normal weather conditions and excluding unusual air pollution, the materials will not lose their bond, peel, flake, or chip as a result of such defect in the manufacture of the materials and the finish will be water resistant so long as surface integrity is maintained. For a period of ten (10) years from the date of substantial completion of the project, when installed in accordance with Dryvit's current published literature under normal weather conditions and excluding unusual air pollution, the finish will be UV fade resistant, except for specially produced colors. For a period of twelve (12) years from the date of substantial completion of the project, when installed in accordance with Dryvit's current published literature by an applicator firm that has completed a Dryvit training program for the system, the system will effectively drain any moisture that enters the cavity between the insulation board and the air and water resistive barrier.

THE SOLE RESPONSIBILITY AND LIABILITY OF DRYVIT UNDER THIS WARRANTY SHALL BE TO PROVIDE LABOR AND MATERIALS NECESSARY TO REPAIR OR REPLACE THE DRYVIT MATERIALS DESCRIBED HEREIN SHOWN TO BE DEFECTIVE DURING THE WARRANTY PERIOD, AND IF NECESSARY, TO REPAIR OR REPLACE ANY SHEATHING OR FRAMING MEMBER THAT IS DAMAGED AS A RESULT OF THE SYSTEM FAILING TO DRAIN MOISTURE FROM THE CAVITY BETWEEN THE INSULATION BOARD AND THE AIR AND WATER RESISTIVE BARRIER AS PROVIDED HEREIN. ANY OTHER LABOR OR OTHER COSTS ASSOCIATED WITH THE REPAIRS OR REPLACEMENT SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER. NO OTHER CHARGES OR EXPENSES WILL BE ALLOWED BY DRYVIT. DRYVIT WILL DETERMINE IN ITS SOLE DISCRETION THE APPROPRIATE SCOPE AND METHOD OF REPAIR OR REPLACEMENT TO REMEDY ANY CONDITION COVERED BY THIS WARRANTY.

No warranty whatsoever is made with respect to (i) materials produced by other manufacturers not bearing Dryvit's name or logo which are used in the installation of the Dryvit materials covered hereunder, (ii) materials, including insulation board, produced by manufacturers for Dryvit but not sold by Dryvit or its authorized distributor, even if such materials bear Dryvit's name or logo, (iii) any sealant materials nor (iv) cracking.

This warranty is void if a component of the system is substituted or eliminated or if Dryvit materials are intermixed with other chemicals or materials not specifically required by Dryvit's current published literature.

No warranty whatsoever is made for damage caused in whole or in part by acts of God or natural phenomenon, such as but not limited to falling objects, fire, earthquake, floods, pests or chemical fumes. No warranty whatsoever is made for architecture, engineering, aesthetics, insufficient or defective waterproofing between Dryvit materials or between Dryvit materials and non-Dryvit materials or for defective or improper workmanship by the applicator. No warranty whatsoever is made for any damage or injury not solely and directly caused by defects in the manufacture of the materials covered under this warranty.

DRYVIT WILL BE RESPONSIBLE FOR DAMAGE TO SHEATHING OR FRAMING MEMBERS THAT IS A RESULT OF A FAILURE OF THE SYSTEM TO DRAIN MOISTURE THAT ENTERS THE CAVITY BETWEEN THE INSULATION BOARD AND THE AIR AND WATER RESISTIVE BARRIER. IN NO EVENT SHALL DRYVIT BE LIABLE FOR AND EXPRESSLY DISCLAIMS ANY LIABILITY FOR ANY OTHER DAMAGE TO THE BUILDING ITSELF, ITS CONTENTS OR FOR ANY CONSEQUENTIAL, SPECIAL OR INCIDENTAL DAMAGE, WHETHER IN CONTRACT OR IN TORT, INCLUDING NEGLIGENCE. THIS LIMITED REPAIR AND REPLACEMENT WARRANTY IS GIVEN IN LIEU OF ANY AND ALL OTHER

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WARRANTIES WRITTEN OR ORAL, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE REMEDY SET FORTH HEREIN IS THE SOLE AND EXCLUSIVE REMEDY FOR ANY AND ALL CLAIMS ARISING UNDER OR IN CONNECTION WITH OR IN ANY WAY RELATING TO THE DRYVIT MATERIALS SUPPLIED AND INSTALLED ON THIS PROJECT. NO DRYVIT REPRESENTATIVE HAS THE AUTHORITY TO VARY OR ALTER THESE TERMS.

This warranty is issued to the original owner of the structure into which the Dryvit materials have been incorporated and may only be transferred or assigned to a subsequent owner upon written notice to Dryvit at the address provided below at the time of transfer of ownership. Such transfer or assignment shall not extend the original term of this limited repair and replacement warranty.

No warranty stated herein shall be effective until and unless the materials covered by this warranty have been paid for in full.

The remedies provided in this warranty shall be exclusive and no person is authorized to make any other warranty, express or implied, on behalf of Dryvit.

Since the Dryvit materials are building materials and are not intended to be sold to a "consumer" except as part of real estate or as a major addition thereto, this warranty shall not apply to any party constituting a "consumer" as such term is defined by the Magnuson-Moss Warranty Act.

This warranty shall be interpreted under the laws of the State of Rhode Island.

Dryvit shall not have any obligations under this warranty unless the owner notifies Dryvit Systems, Inc., Warranty Services, One Energy Way, West Warwick, RI 02893 or [warranty@dryvit.com](mailto:warranty@dryvit.com) IN WRITING within thirty (30) days of notice of the alleged defect. Dryvit shall be allowed a reasonable period of time to remove samples and perform any testing Dryvit deems necessary to investigate and determine the cause of the alleged defect. The owner shall undertake any temporary repairs in a timely manner at its own expense to prevent further damage to the structure until the cause of the alleged defect is determined.

Dryvit shall not have any obligations hereunder unless the materials have been maintained by the owner with reasonable care.