

BUILDING ENVELOPE

MOISTURE DRAINAGE AND VENTILATION PRODUCTS
FROM KEENE BUILDING PRODUCTS

Moisture & ventilation are essential to proper construction. Keene Building Products has pioneered the use of entangled net products in walls, roofs & foundations to handle incidental moisture & create drying potential.

These products work in walls, masonry buildings, foundation and plaza applications. They work to increase moisture drainage, ventilation & isolation in every facet of commercial and residential construction.

KEENEBUILDING.COM

877.514.5336



Moisture Ventilation & Drainage Commercial & Single Family Residential

Driwall™ products provide you the solutions you need for a better moisture drainage & ventilation system.

The **Driwall product line** includes:

- Full-wall rainscreen applications
- Mortar collection devices for masonry cavity walls
- Weep screeds
- Drainage & ventilation products for several different types of roofing applications
- Weep vents



Commercial & Single Family Residential

In recent years commercial & single family residential construction techniques have changed. Today, tightening the structures to prevent thermal leakage is a common practice.

This can be attributed to the demand for energy efficiency. This change in the construction process has led to lower drying capacity, which has contributed to moisture problems.







Moisture Ventilation & Drainage FEATURED PRODUCT



Easy-Fur™

A rollable furring strip that creates a cutting edge rainscreen and venting system behind wood and fiber-cement siding.

Easy-Fur's unique design allows for the fastest installation of any furring strip on the market, because it can be rolled on to the wall and easily cut to length.

Its high strength configuration creates a great base to install siding on. Easy-Fur is a 4-inch wide, 10 mm thick and 25 foot long product made out of nylon. It will not split, warp or rot like traditional wood furring strips. Creating ventilation behind your siding is the best way to increase the life of the siding as well as decrease the effects of moisture products in your wall.

Applications

- ✓ Wood siding
- ✓ Metal siding
- ✓ Fiber-cement board siding
- ✓ Other roofing and wall applications

Benefits

- ✓ Easy to install
- ✓ Can be cut with scissors
- ✓ Meets most local codes
- ✓ Will not split, warp or rot
- ✓ Provides no source for the production of MOLD, MILDEW or BACTERIA







Moisture Ventilation & Drainage FEATURED PRODUCT



Drivall™ Rainscreen UV

A high performance drainage and ventilation mat designed to provide a 10 mm cavity with a long term UV resistance.

Drivall Rainscreen UV has strength bars to increase compression resistance and with the addition of a UV stable fabric it makes Drivall™ Rainscreen UV ideal for open joint claddings.

The UV stable fabric is black in color to contrast the emptiness and the entangled net is designed to deter insect and rodents from resting.

Open joint cladding limitation minimum open gap 3/8-inch, maximum cladding thickness of 3/8-inch.

Applications

- ✓ Fiber cement board siding
- ✓ Wood siding
- ✓ Open joint cladding
- ✓ Metal panels

Benefits

- ✓ Long term UV resistance
- ✓ Drainage of excess moisture and ventilation in one product
- ✓ Light weight and easy to handle
- ✓ Simple installation with mechanical staple hammer
- ✓ Polymer core is resistant to most known corrosive chemicals, including solvents







Moisture Ventilation & Drainage Building Envelope Products



Driwall™ Rainscreen

Driwall Rainscreen is a drainage mat for exterior wall systems. The product eliminates incidental moisture problems in most exterior veneer applications.

The full-wall entangled net product rolls over the water-resistant barrier to separate it from the exterior veneer. The airspace that it creates increases airflow through the wall cavity, allowing the wall to breathe & stay dry. The filter fabric will supply a bond break to prevent any mortar bridging.

Depending on the size of the cavity desired, it may be specified from a 0.13" thickness to 0.75" thickness.

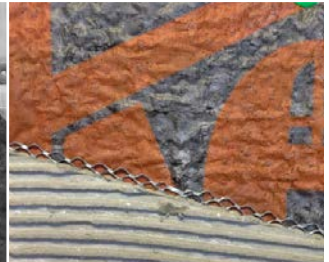
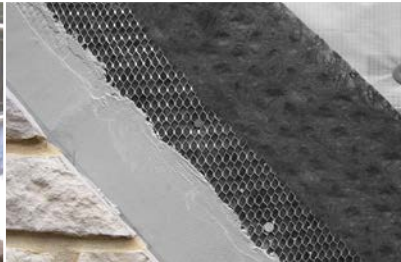
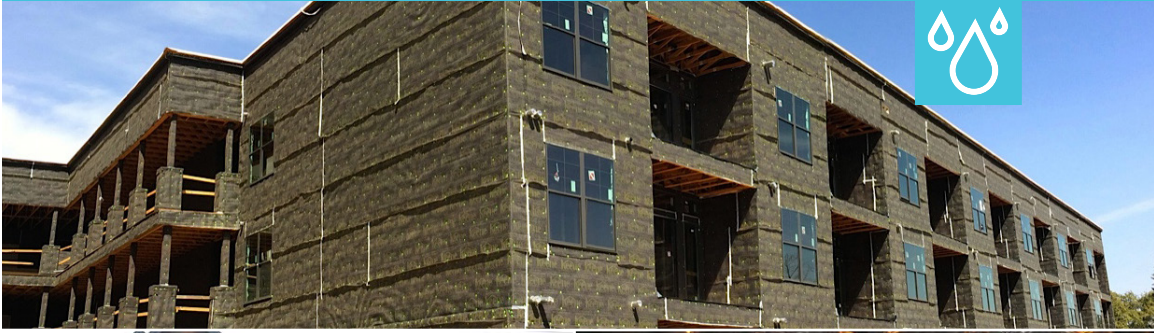
Applications

- ✓ Stucco
- ✓ Thin stone or brick
- ✓ Manufactured stone
- ✓ Stone & brick masonry
- ✓ Lap siding
- ✓ Siding applications

Benefits

- ✓ Prevents callbacks from moisture problems
- ✓ Increases ventilation
- ✓ Helps prevent mold
- ✓ Most effective way to drain & vent
- ✓ **One product that can do it all**







Driwall™ Rainscreen Frequently Asked Questions

What applications is Driwall Rainscreen used in?

Driwall Rainscreen is used behind stucco, manufactured stone, thin natural stone or brick and siding to provide an assured airspace for drainage and ventilation.

Why should Driwall Rainscreen be used instead of a dimpled or pleated house wrap product?

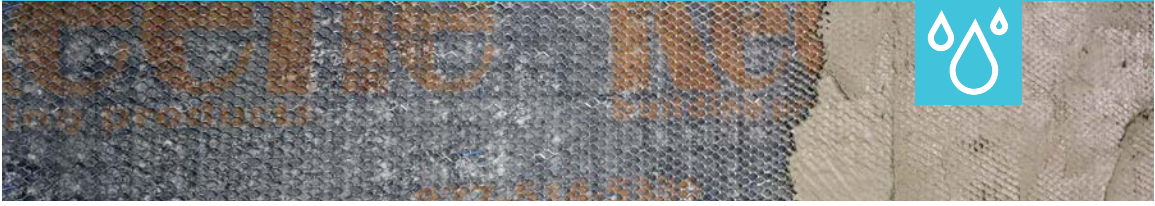
The house wrap products do not provide an adequate gap between the cladding and the sheathing to break the capillary action of water droplets so that positive drainage can occur. Furthermore, these products do not provide enough open space for air to flow through the walls.

Driwall Rainscreen provides a minimum of ¼ inch of airspace to allow moisture to drain down and out of the wall. The ¼ inch of open space allows air to flow through the wall to provide the ventilation that is necessary to dry out the sheathing and the exterior veneer.

What is the process for installing Driwall Rainscreen?

Driwall Rainscreen is installed over the water-resistive barrier after all flashing details have been completed. The product is cut





to fit around all windows, doors, and other penetrations just as a weather resistant barrier would be installed. Driwall Rainscreen can be attached using cap nails, screws, or staples. The siding or the lath, scratch coat, and exterior veneer are then installed per the manufacturer's installation guidelines.

How does the fabric on one side of the Driwall Rainscreen work?

The fabric is a breathable, nonwoven fabric that faces away from the sheathing. It prevents plaster or debris from entering the designed airspace. The three-inch selvage edge of fabric is folded over the adjacent sections of Driwall Rainscreen and can also be folded over the top and bottom openings to serve as a bug screen.

Do you have an Installation video for Driwall Rainscreen?

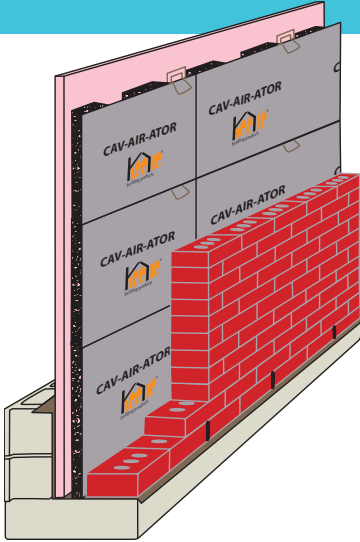
Yes. Visit our Driwall Rainscreen product pages online to view or use your phone to scan here.

Scan QR Code to watch install video





Moisture Ventilation & Drainage Building Envelope Products



CAV-AIR-ATOR®

CAV-AIR-ATOR is a full wall drainage and ventilation mat for full brick or stone masonry walls.

It prevents mortar from entering the cavity, clinging to wall ties, or blocking weep holes. The innovative design allows the 4'x16" panels to be extremely light and flexible so they can easily rest between the brick ties.

Thicknesses include: 0.40" (10 mm), 0.75" (19 mm), 1.0" (25.4 mm), & 1.75" (44 mm).

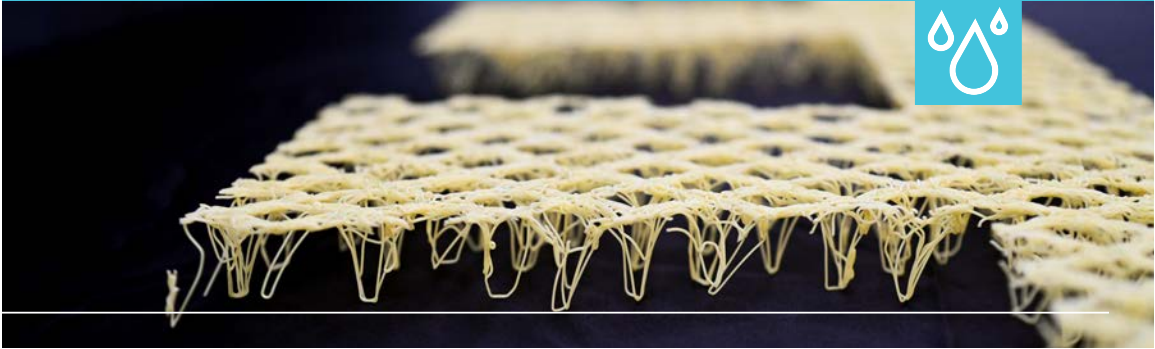
Applications

- ✓ Brick
- ✓ Stone
- ✓ Schools, public works and institutional construction
- ✓ Residential applications for long-life construction
- ✓ For applications in which the useful life of the building is in excess of 50 years

Benefits

- ✓ Creates a 96.5% void space in a masonry veneer cavity
- ✓ Unobstructed ventilation from top of wall to bottom weeps
- ✓ Lightweight pieces
- ✓ Filter cloth laminated to the front prevents all mortar from entering the cavity
- ✓ Springy design adjusts to varying cavity width





WallDefender™

Helps Keep Cavity Walls Dry and Flashings Functioning Properly.

MortarNet WallDefender suspends mortar droppings above the flashing and weeps, so they stay clear and unobstructed. Its NEW design using a structural strand polymer mesh allows moisture to flow to the weeps and significantly greater airflow within the cavity to promote drying.



MortarNet™ — With Insect Barrier™

The Original Mortar Dropping Collection Device.

MortarNet™ with Insect Barrier™ suspends mortar droppings above the flashing and weeps, so they stay clear and unobstructed. The patented Insect Barrier helps deter insects from entering the cavity through the weep holes. Its NEW design using a structural strand polymer mesh allows moisture to flow to the weeps and significantly greater airflow within the cavity to promote drying.



Designed for use with stucco, thin brick, and more!
Drivall™ LathNet



LathNet is a metal lath and drainage plane system that provides a continuous drainage plane between the lath and weather resistant barrier. The Masonry Advisory Council recommends that in exterior adhered masonry wall systems, a drainage mat be installed to drain any water that has penetrated to the flashing. A galvanized expanded metal lath, or diamond mesh, should be attached atop the drainage mat.

Benefits

- ✓ Faster installation and fewer wall penetrations than installing a drainage plane and lath separately
- ✓ Combines proven components in an engineered and tested system
- ✓ Factory assembly ensures consistent quality
- ✓ Clearly shows 1" minimum lath overlap to comply with ASTM C847
- ✓ Promotes full lath encapsulation without clogging the drainage plane
- ✓ Drainage mesh provides an effective mortar barrier to prevent bridging
- ✓ Continuous drainage plane allows rapid, unrestricted moisture flow to the weep holes
- ✓ Allows unrestricted air flow behind the lath to help promote drying
- ✓ Assembled in the USA from 100% USA-made materials



Driwall™ Mortar Deflection

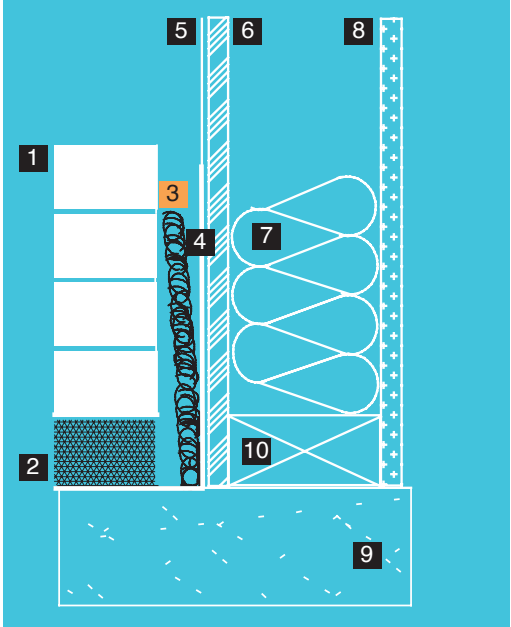
Driwall Mortar Deflection is a cavity wall protection device for masonry.

In commercial & residential construction it is used at the base of the wall, where flashing is installed to keep the airspace clear of mortar & debris. Driwall™ Mortar Deflection will allow the weep holes to stay open & drain properly. It does not absorb water, & helps to prevent mold. Driwall™ Mortar Deflection is 0.375 to 1.60" thick (9 to 41 mm), & sold in rolls that are 25 to 50 feet in length.

Benefits

- ✓ Prevents callbacks from moisture problems
- ✓ Cavity drainage & protection of flashing in one product
- ✓ Guaranteed to stop moisture from clogging weep holes when properly installed
- ✓ Will not grow mold; prevents fungus & mildew

- 1 Brick
- 2 Driwall™ Weep Vent
- 3 Driwall™ Mortar Deflection
- 4 Flashing
- 5 Weather-resistive barrier (WRB)
- 6 Outer sheathing
- 7 Insulation
- 8 Gypsum wall board
- 9 Concrete foundation
- 10 Base plate





Moisture Ventilation & Drainage Building Envelope & Roofing Products



Driwall™ Weep Screed

Driwall Weep Screed is a flashing & weep designed to be used with a water-resistive barrier, or building paper & Driwall™ Rainscreen.

It provides a clean termination for stucco, manufactured stone & thin natural stone at the bottom of the wall. The unique “V” shape allows migration of moisture down the screed & away from the wall.

As required by all major building codes & the International Building Code, Weep Screed is necessary at the bottom of all framed walls.

Colors include: gray, tan & white.
It also comes in metal.



Features

- ✓ 3 ½-Inch (89-mm) nailing & flashing flange
- ✓ Color: gray, tan & white
- ✓ ¾-Inch (19 mm) “V”-shaped drip edge
- ✓ Each piece is 60-Inch (1.524 m)
- ✓ PVC material meets ASTM standards D1784, C1063 & D4216-99





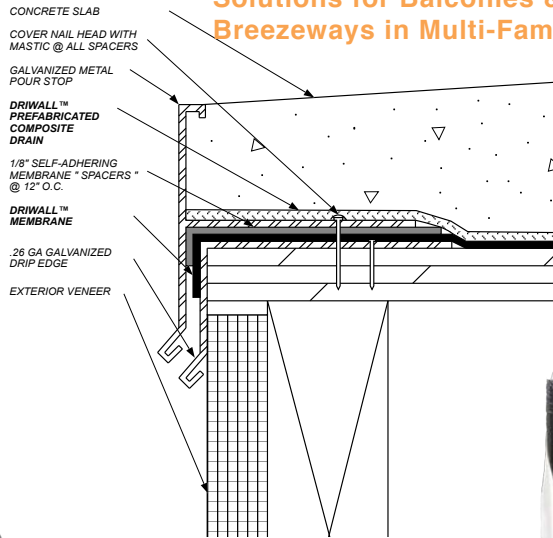
Driwall™ Membrane (Flashing)

Driwall Membrane is a self-adhering flashing & waterproofing membrane that provides an air & vapor barrier for full wall or flashing applications in masonry, wood, or gypsum construction.

These highly adhesive membrane products ensure air & vapor protection. It is impermeable to air, moisture vapor, & water & has excellent adhesion to concrete, galvanized metal, steel, plywood & gypsum.

Driwall Membrane is highly resistant to punctures and tears & comes in two thicknesses: 40 mil & 60 mil.

Waterproofing & Drainage Solutions for Balconies & Breezeways in Multi-Family



Driwall™ Membrane 40 mil (1.0 mm thick & rolls are 75-feet (22.8 m) long)

Driwall™ Membrane 60 mil (1.5 mm thick & rolls are 67-feet (20.4 m) long)



Moisture Ventilation & Drainage Building Envelope Products



Drivall™ Prefabricated Composite Drain (PCD)

Drivall Prefabricated Composite Drain products are drainage mats designed to eliminate hydrostatic pressure from behind foundation walls, retaining walls, planters, plaza decks, & balconies.

The mat holds soil or concrete away from the wall or deck & keeps the drainage plane clear.

When using Drivall Prefabricated Composite Drain, aggregate for drainage can be eliminated from the construction site.

Applications

- ✓ Plazas, foundation walls & planters
- ✓ Balconies
- ✓ Bored rock tunnels with moisture flow
- ✓ Will protect soft membranes
- ✓ Green roofs


Benefits

- ✓ Fire resistant – Class A fire rated product
- ✓ Minimal deflection, & no creep or long-term degradation
- ✓ Provides a thin profile for tight construction assemblies
- ✓ Lightweight & easy to handle





Keene Building Products Building Envelope Products

 Product Name	Thickness	Length	Area
Driwall Rainscreen 013 -1	0.13 in./3.8 mm	100 ft.	400 sq. ft.
Driwall Rainscreen 020-1	0.25 in./6.0 mm	65 ft.	260 sq. ft.
Driwall Rainscreen UV	0.40 in./10.2 mm	45 ft.	180 sq. ft.
Driwall Rainscreen 10 mm	0.40 in./10.9 mm	45 ft.	180 sq. ft.
Driwall Rainscreen 075-1	0.75 in./19.0 mm	50 ft.	200 sq. ft.
CAV-AIR-ATOR 0.40	0.40 in./10.0 mm	4 ft.	
CAV-AIR-ATOR 0.75	0.75 in./19.0 mm	4 ft.	
CAV-AIR-ATOR 1.0	1.0 in./25.4 mm	4 ft.	
CAV-AIR-ATOR 1.75	1.75 in./44.0 mm	4 ft.	
Driwall Mortar Deflection 0.5-040	0.375 in./9.0 mm	50 ft.	
Driwall Mortar Deflection 1.0-075	0.75 in./19.0 mm	50 ft.	
Driwall Mortar Deflection 2.0-160	1.60 in./41.0 mm	25 ft.	
Driwall Weep Screed	0.08 in./2.0 mm	5 ft.	
Driwall Membrane 40 mil (Flashing)	0.039 in./1.0 mm	75 ft.	300 sq. ft.
Driwall Membrane 60 mil (Flashing)	0.059 in./1.5 mm	67 ft.	268 sq. ft.
Driwall PCD 10-013	0.125 in./3.175 mm	100 ft.	400 sq. ft.
Driwall PCD 10-025	0.25 in./6.0 mm	100 ft.	400 sq. ft.
Driwall PCD 10-040	0.40 in./10.0 mm	100 ft.	400 sq. ft.
Driwall PCD 20-045	0.40 in./10.0 mm	100 ft.	400 sq. ft.
Driwall PCD 10-025-2 MEM	0.33 in./8.0 mm	75 ft.	300 sq. ft.
Driwall Weep Vents	0.375 in./9.0 mm	(size: 2.5 in. x 3.5 in.)	
Easy-Fur	0.40 in./10.2 mm	25 ft.	



Receive AIA Continuing Education Credits from Keene Building Products



Healthy Roofs = Drainage & Ventilation (1 Credit Hour)

Healthy roofs stand the test of time because of two important attributes; drainage and ventilation. Moisture related issues in roof, and wall assemblies have contributed to a historic amount of damage and failures. This presentation focuses on the need, and benefits of a continuous drainage, and ventilation underlayment in several different types of roofing applications. It will also emphasize how each component of the roof work in conjunction with one another to alleviate any potential problems regarding moisture.



Healthy Walls = Rainscreen & Ventilation (1 Credit Hour)

The construction industry has seen a substantial increase in moisture-related issues in exterior walls. This presentation will discuss how a rainscreen wall system prevents moisture build-up within walls by providing a means for drainage and ventilation. The presentation provides an overview of rainscreen principles and explains how to incorporate a rainscreen system in a variety of applications including stucco, manufactured stone, siding, and masonry cavity walls.



We'll
TEACH
you
EAT



Designing a sustainable Masonry Cavity Wall Building Envelope *(1 Credit Hour)*

This course explains typical problems in masonry cavity walls and how both improper design and construction can cause these problems, and it provides examples of excellent cavity wall design and the proper materials that should be specified to create a sustainable masonry cavity wall. At the end of the program, the attendees will have a much better understanding of how to design and specify masonry cavity walls that not only meet the AIA's definition of sustainability, but which will also perform well over the life of the building.



Balcony Waterproofing - The Most Overlooked Component. *(1 Credit Hour)*

This presentation will focus on the overview of above-grade waterproofing, specifically covering balcony waterproofing systems, and the most overlooked component when assembling such systems, which is the drainage layer. The course will also highlight the forces that create the need for waterproofing assemblies, and how those forces shape how we waterproof balconies.



Call or Email TODAY to set up
a lunch presentation

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Certificates of Completion for non-AIA members are available upon request. This program is registered with the AIA/CES for continuing professional education. As such, it does not include content that may be deemed or construed to be an approval or endorsement by the AIA of any material of construction or any method or manner of handling, using, distributing, or dealing in any material or product. Questions related to specific material, methods and services will be addressed at the conclusion of this presentation.



Project Profile

Driwall™ Rainscreen 013-1 & Easy-Fur

Residential Home

Orlando, FL

A subdivision of town homes is now undergoing a major remediation project caused by stucco and siding failures. Many town homes have been damaged by moisture intrusion caused by poor details and a lack of drainage. After legal battles and upset homeowners, the Home Owner's Association (HOA) is taking action by replacing all cladding and adding Keene's **Driwall Rainscreen 013-1** for additional protection. The HOA has chosen Keene due to name recognition as the premium provider of rainscreen.

Keene's thinner Driwall Rainscreen 013-1 has many features and benefits that make it stand out in the market today. The product is lightweight, easy to handle, and installs simply. Additionally, Driwall Rainscreen 013-1 absorbs and releases no moisture, preventing the promotion of mold, mildew, and bacteria. Keene's building envelope products are the perfect solution for moisture control.





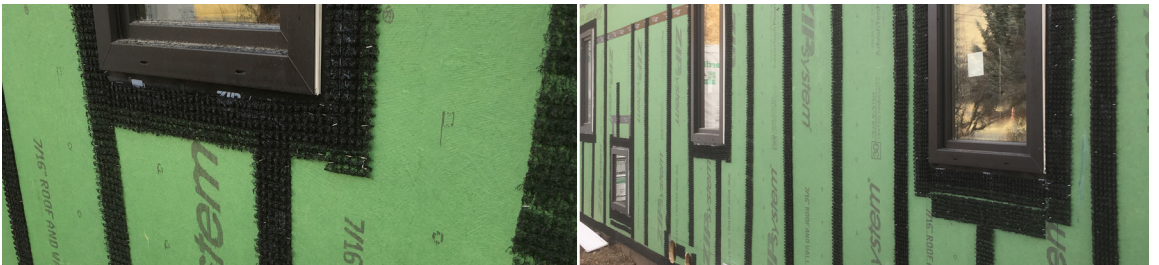
Residential Home Hailey, ID

A 4,300 sq. ft. zero energy residential home in Hailey, Idaho utilizes a compact design to fit local aesthetic, as well as reduce heat loss and gain. With the highly variable climate in Hailey, this allows for conveniences and challenges for high-performance homes. As the owner, general contractor, and energy consultant on the job, John Reuter shares with us why his company, John Reuter Greenworks LLC, chose Keene's **Easy-Fur** product for this zero energy residential home.

John Reuter Greenworks provides energy consulting and modeling for residential and light commercial buildings. When asked why he chose Easy-Fur for the net zero home, Reuter described the product as affordable, incredibly easy to install, and provided the home protection from insects. Reuter also mentioned other rainscreens blocked airflow around windows and tricky siding details. Easy-Fur's benefits include ease of application and the ability to promote airflow and drainage; therefore, reducing mold, mildew, and bacteria.

Reuter continues to make a positive impact on the environment with his high-performance homes. John Reuter Greenworks builds homes that are energy-free while also being healthy. Keene Building Products is proud to contribute to the environment and provide products that protect a healthy home.

*For more project profiles visit:
www.keenebuilding.com/project-profiles*





Project Profile Driwall™ Rainscreen 020-1

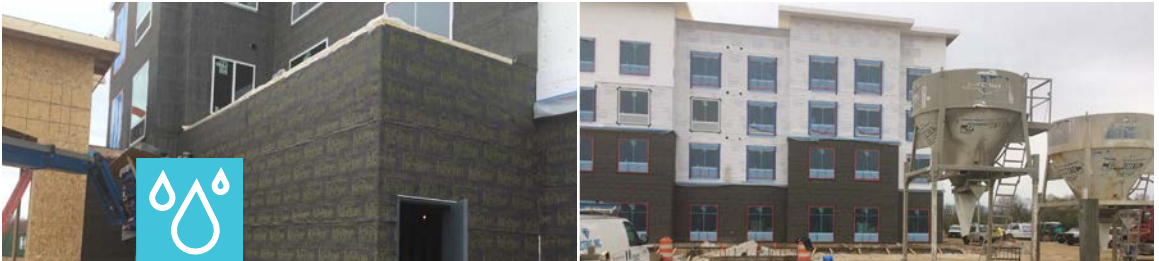
Hotel

Akron, OH

This brand new contemporary four-story hotel is the first of its kind to open in the up and coming downtown Akron, Ohio area where many museums, restaurants and retail establishments reside. Guests can enjoy great amenities including an indoor pool and high-quality fitness center, all while feeling comfortable and relaxed during their stay.

In order to make this hotel ideal for guests, appearance is a factor. Guests want to stay in new and modern hotels and that requires exterior buildings to look their best. The exterior veneer for this hotel was finished with manufactured stone.

To prevent any exterior moisture issues, sustain the longevity of this hotel and to create a profitable asset, the wall design incorporated Keene Building Products' Driwall Rainscreen drainage mat. Driwall Rainscreen 020-1 provides an airspace between the sheathing and exterior veneer to allow for drainage and ventilation of the wall system.





Driwall™ Rainscreen provides an airspace for any incidental moisture penetration that gets behind the stone, which occurs due to wind driven rain. Driwall™ Rainscreen allows for moisture to drain to the exterior.

Driwall™ Rainscreen also provides ventilation. When the stone gets wet, it will have the capacity to properly dry. Draining and drying are two extremely important aspects for the proper life span of manufactured stone. Driwall™ Rainscreen provides that in one product.

By including Driwall™ Rainscreen 020-1 into this brand new hotel, the mason ensured that the manufactured stone can properly drain and ventilate. Now it is ready for guest to enjoy and stay comfortably.

*For more project profiles visit:
www.keenebuilding.com/project-profiles*



Notes



A large grid area for taking notes, consisting of a fine grid of light gray lines on a white background.



Notes



A large grid of small squares for taking notes, covering most of the page.





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Keene Building Products
2926 Chester Avenue
Cleveland, OH 44114

877 | 514 | 5336
P 440 | 605 | 1020
F 440 | 605 | 1120

keenebuilding.com