realstone SYSTEMS™

Inspiring. Timeless. Enduring.

mortairvent®

Advanced Rainscreen Solutions

The Clear Choice™

WHAT IS A RAINSCREEN?

A rainscreen is a system that creates a pressure neutralized airspace between the structural envelope and the exterior cladding of a wall structure. This facilitates the drainage, as well as the ventilation of moisture from the wall system, which is beneficial to the life of the structure.

As more information becomes available, many in the building products industry have become aware of the absolute necessity for rainscreens, and the negative ramifications for not implementing them. 90% of all wall failures are due to moisture related issues, and since many wall claddings are not water tight, managing moisture has become a critical design characteristic. Below are examples of what happens when a rainscreen isn't used, and moisture inevitably penetrates:

- Corrosion of Building Materials
- Staining/Efflorescence
- Cracking and Spalling
- Interior Deterioration of Finishes
- Poor Indoor Air Quality
- Increased Maintenance
- Decreased Life-span of Building

These damages are time consuming, costly, and in some circumstances, irreversible. Luckily, Advanced Building Products has developed the technology to combat this issue, and proudly offers four distinct engineered polymeric rainscreens that mitigate the potential damage caused by moisture intrusion:

- **Mortairvent® 201, 202 & 203 (Residential Use)**
- **Mortairvent® CW (Commercial Use)**

Our rainscreen products are easy to use, efficient, and effective with all wall structures. The Clear Choice™ in allowing moisture to drain, not remain®.

DON'T LET THIS HAPPEN TO YOU!

MORTAIRVENT® 201, 202 & 203

Motairvent 201 & 202 (cornrow)

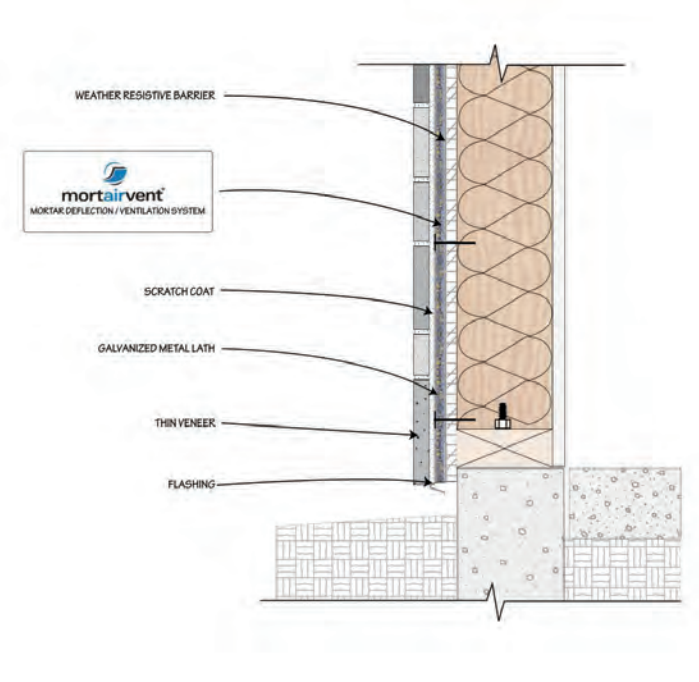
Mortairvent 203 (waffle)

When building exterior walls with stone, stucco, brick, cedar, or fiber cement siding, an effective rainscreen system is imperative. Mortairvent® is a drainage and ventilation system specifically designed for use with most exterior siding materials, primarily in residential and mixed use structures. Mortairvent® is available in 0.125 in. (3mm), 0.25 in. (6mm) or 0.40 in. (10mm) thicknesses.

BENEFITS

- 95% open design enables moisture drainage and drying
- Resistant to most known corrosive chemicals and reduces the risk of mold or mildew
- Minimizes staining, peeling, and blistering of exterior finishes
- Contributes to LEED points
- Simple installation. Easier and more cost effective than traditional methods
- 2-ply design improves the strength properties of the rain screen, and deflects mortar
- Meets the National Building Code of Canada at 10mm thick
- Tested to ASTM E 2925
- Filter fabric allows for guide lines to be snapped
- 25 Year limited warranty

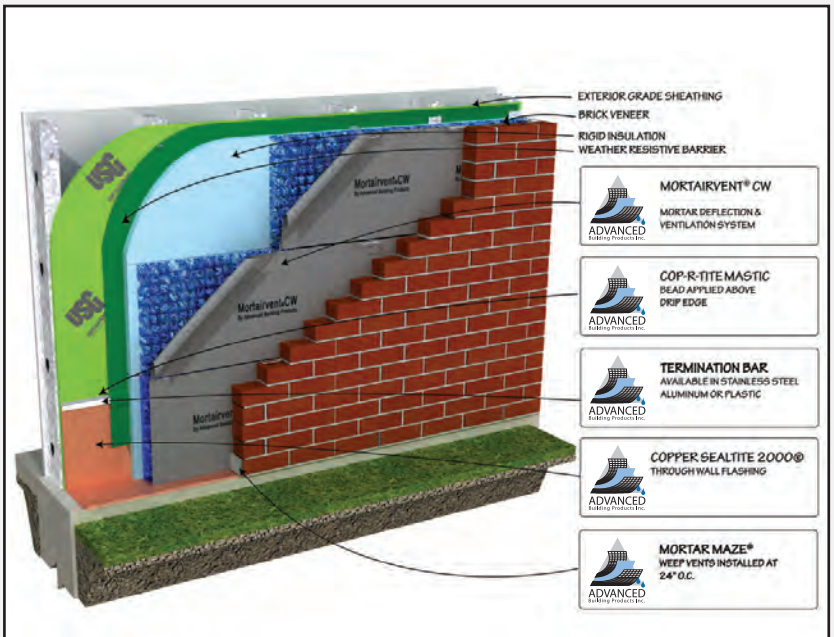
MORTAIRVENT® CW (Cavity Wall Applications)



The Mortairvent® CW Mortar Deflection & Ventilation System is a full cavity wall product used to reduce the overall cavity width in ventilated wall assemblies. Mortairvent® CW combines the benefits of rainscreen technology through the use of integrated mortar deflection, drainage and ventilation design. Mortairvent® CW does not allow mortar blockage in the cavity wall drainage plane due to the heat bonded filter fabric. This dedicated airspace allows proper drainage and convective drying. Mortairvent® CW is available in .40 in (10mm), .80 in (20mm), and 1.6 in (40mm) thicknesses.

BENEFITS

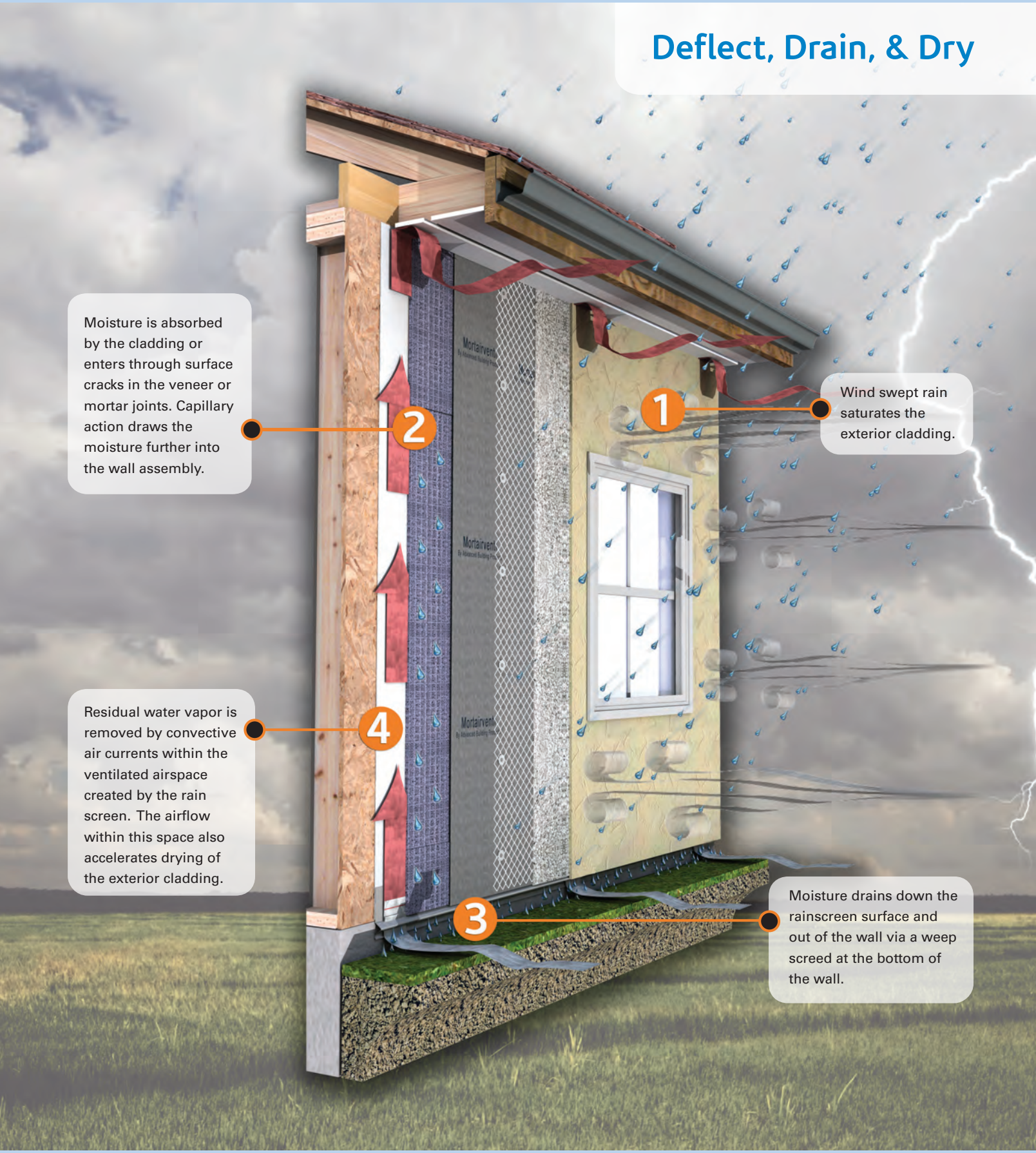
- Improves the overall performance of the entire cavity wall assembly
- Reduced continuous airspace expedites moisture drainage and drying
- Mortar deflection fabric layer provides a dedicated airspace for ventilation and convective drying
- Lightweight and easy to install between brick ties. Provides simple one-step installation as brickwork is completed
- Mold & mildew resistant
- Contributes to LEED points



Securock® Glass-Mat Sheathing is a registered trademark of USG

The Importance of Rainscreen Technology

Deflect, Drain, & Dry



1. Wind swept rain saturates the exterior cladding.

2. Moisture is absorbed by the cladding or enters through surface cracks in the veneer or mortar joints. Capillary action draws the moisture further into the wall assembly.

3. Moisture drains down the rainscreen surface and out of the wall via a weep screed at the bottom of the wall.

4. Residual water vapor is removed by convective air currents within the ventilated airspace created by the rain screen. The airflow within this space also accelerates drying of the exterior cladding.

Packaging

PHYSICAL DATA	Mortairvent® 201	Mortairvent® 202	Mortairvent® 203
Core Material	Polypropylene (cornrow)	Polypropylene (cornrow)	Polypropylene (waffle)
Thickness	0.125 in. (3 mm)	0.25 in. (6 mm)	.40 in. (10 mm)
Roll Length	61.5 ft. (18.75 m)	61.5 ft. (18.75 m)	40 ft. (12.19 m)
Roll Width	39 in. (99.06 cm)	39 in. (99.06 cm)	39 in. (99.06 cm)
Roll Weight	12 lbs. (5.44 kg)	14 lbs. (6.35 kg)	16 lbs. (7.26 kg)
Coverage Area	200 sq. ft. (18.58 m^2)	200 sq. ft. (18.58 m^2)	130 sq. ft. (12.08 m^2)

PHYSICAL DATA	Mortairvent® CW 205	Mortairvent® CW 206	Mortairvent® CW 207
Core Material	**Polypropylene**	**Polypropylene**	**Polypropylene**
Thickness	**.40 in (10mm)**	**.80 in. (20mm)**	**1.6 in. (40mm)**
Roll Length	**40 ft. (12.19m)**	**50 ft. (15.24m)**	**25 ft. (7.62m)**
Roll Width	**16 in. (40.64cm)** **39 in. (99.06cm)**	**16 in. (40.64cm)** **39 in. (99.06 cm)**	**16 in. (40.64 cm)** **39 in. (99.06 cm)**
Roll Weight	**5.0 lbs. (2.27kg)** **12.5 lbs. (5.67kg)**	**5.6 lbs. (2.54kg)** **14 lbs. (6.35kg)**	**5.6 lbs. (6.35kg)** **14 lbs. (2.54kg)**
Coverage Area	**53 sq. ft. (4.92m^2)** **130 sq. ft. (12.08m^2)**	**67 sq. ft. (6.22m^2)** **162.5 sq. ft (15.09m^2)**	**33.5 sq. ft (15.09m^2)** **81.25 sq. ft. (6.22m^2)**
UV Exposure	**30 days**	**30 days**	**30 days**

Installation Instructions:

Apply a weather resistant barrier over sidewall sheathing. Note: some regions may require two layers of weather resistant barrier. Check local codes for more information.

Install Mortairvent® after windows and doors have been properly installed and flashed.

Starting at the base of the wall, unroll Mortairvent® from right to left with the fabric flap on the bottom. The blue geomatrix should be facing the weather resistant barrier and the filter fabric facing the exterior of the building.

Staple or nail every three square feet.

On the bottom and top course only, fold the fabric flap and tuck it between the (blue) polymer matrix and the weather resistant barrier to create an insect screen. The top course roll will need to be inverted to achieve this.

On subsequent courses, butt the blue polymer material together without overlapping. Pull the fabric flap over the previous course (shingle style) and staple.

Apply lath, scratch coat, and stucco or masonry veneer siding over Mortairvent® using recommended fasteners and spacing.