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Specification Bulletin
No. 201-203

Mortairvent®

Mortairvent® | Rain Screen Drainage Mat for Exterior Siding

www.mortairvent.com

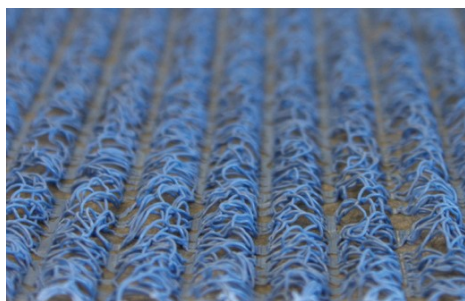
DESCRIPTION

When building exterior walls with stone, stucco, brick, cedar, EIFS, or fiber cement siding, it is important to use an effective rain-screen system that will provide a means for drainage and ventilation. Moisture will find its way into these wall systems by way of cracked mortar joints, gaps or cracks in the surface of the material. Natural absorption of the wood or fiber cement also needs to be considered. Once this moisture penetrates the outer surface of the wall, it becomes trapped in the wall system with no way to escape, creating the perfect environment for toxic mold growth and possible structural failure. Mortairvent® is a drainage and ventilation system specifically designed for use with most exterior siding materials.



BENEFITS

- » 95% open design creates a continuous capillary break and channel for moisture to drain, accelerating drying of the exterior cladding.
- » Durable polymer material is resistant to most known corrosive chemicals and helps reduce the risk of mold or mildew.
- » Minimizes staining, peeling, and blistering of exterior finishes.
- » Contributes to LEED points.
- » Simple and quick to install. Easier and more cost effective than traditional furring strip methods.
- » 2-ply design features a backer fabric that improves the tensile and compressive strength properties of the system. The fabric also serves to deflect mortar when used with stucco or a masonry veneer siding.
- » Integrated insect screen.



Mortairvent® (.25 in. / 6mm)



Mortairvent® (.40 in. / 10mm)

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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)
TECHNICAL DATA	Mortairvent® 201	Mortairvent® 202	Mortairvent® 203
Mortar Deflection, Ventilation, & Drainage Mat Options			
Mortar Deflection & Ventilation Material Thickness	0.125 in. (3 mm)	0.25 in. (6 mm)	0.40 in. (10 mm)
Density / Specific Gravity (ASTM D 792, Method A)	.901 g/cm ³	0.901 g/cm ³	0.903 g/cm ³
Porosity (open space) (ECTC TASC00197)	86.3%	93.8%	95.3%
Mass / Unit Area (composite) (ASTM D 5261 / D 6566)	11.52 oz/sq. yd	11.25 oz/sq. yd	15.10 oz/sq. yd
Hydraulic Transmissivity (ASTM D 4716)	1.58 gpm/ ft width	4.22 gpm/ft width	7.01 gpm/ft width
Air Transmissivity (ASTM D 4716, mod)	2.92 cu.ft./min/ft width	15.8 cu.ft./min/ft width	54.5 cu.ft./min/ft width
Flame Spread & Smoke Index (ASTM E 84)	Class A Fire Rated	Class A Fire Rated	Class A Fire Rated
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 at the bottom, the three-dimensional (blue) polymer matrix against the weather resistant barrier and the fabric facing the exterior of the building. Staple or nail every three square feet. If the channels are installed horizontally, due to cutting and patching, Mortairvent® will perform as intended.
- » On the first (bottom) course only, unfold the fabric flap and tuck it between the (blue) polymer matrix and the weather resistant barrier to create an insect screen.
- » On intermediate courses, butt blue polymer material together tightly without overlapping. Pull fabric flap over previous course (shingle style) and staple.
- » On top course, invert the roll and unroll left to right with the fabric flap at the top. Unfold the fabric flap and tuck it between the (blue) matrix and the weather resistant barrier to create an insect screen.
- » Trim top of course on non-flap side to adjust for height.
- » Apply siding over Mortairvent® using manufacturer's recommended fasteners and spacing.

Mortairvent® 10mm product meets the physical requirements of Section 9.27.2.2, Item 1b of the 2005 National Building Code of Canada and 2006 British Columbia Building Code.



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