



Moisture
Management
for Masonry

326 Melton Rd., Burns Harbor, IN 46304
P 800 664 6638 F 219 787 5088
www.mortarnet.com

PRODUCT SUBSTITUTION REQUEST FORM

To: _____

Project Name: _____

Project Location: _____

Specified Product: _____

The undersigned requests consideration of the following product substitution on the above listed project.

PROPOSED SUBSTITUTION: **MortarNet® with Insect Barrier™**

The following data is attached for use in evaluating this substitution request:

- Product Description
- Technical Drawings
- Performance Testing
- Product Specifications

The undersigned states that the following is true, unless modified by attachments:

- No additional maintenance will be required as a result of the substitution.
- The dimensions shown on drawings will not be affected by the substitution.
- The substitution will not result in changes to the building design, engineering design, or detailing.
- The proposed substitution is equivalent or superior to the specified item in function, form, and quality.
- The substitution will not adversely affect the construction schedule, warranty requirements, or other trades.

Submitted By:

Date: _____ Phone: _____

Signature: _____ Company: _____

Print Name: _____

FOR USE BY PROJECT ARCHITECT/ENGINEER:

- ☐ Request Accepted
- ☐ Request Not Accepted
- ☐ Request Accepted as Noted

Signature: _____ Date: _____

Print Name: _____ Notes: _____



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MortarNet®

Technical Data Sheet

MortarNet®

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Description

MortarNet® prevents moisture damage to masonry cavity walls by preventing mortar droppings from blocking the weep holes and allows moisture to flow to the weeps. The patented Insect Barrier helps prevent insects from entering the cavity through the weep holes.

Will not degrade, oxidize, rot, promote mold or fungus growth, or react with common building materials, including mortar, cement, asphalt, modified bitumen, PVC, copper, or galvanized metal. Will last for the life of the building.

Features

High-density polypropylene sloped flashing pan with perimeter flanges, integrated weep spout and connector bridge.

- 90% open-weave polyester mesh insect guards and drainage mats.
- Integrated inner and outer flanges spaced to allow for 1.0" (25.4 mm) of mortar bond between the upper and lower course of C.M.U.
- Impervious to water.

Sizes

Thicknesses:

- 0.4" (10.16 mm)
- 1.0" (25.4 mm)
- 2.0" (50.8 mm)

Height: 10" (254 mm) – all thicknesses

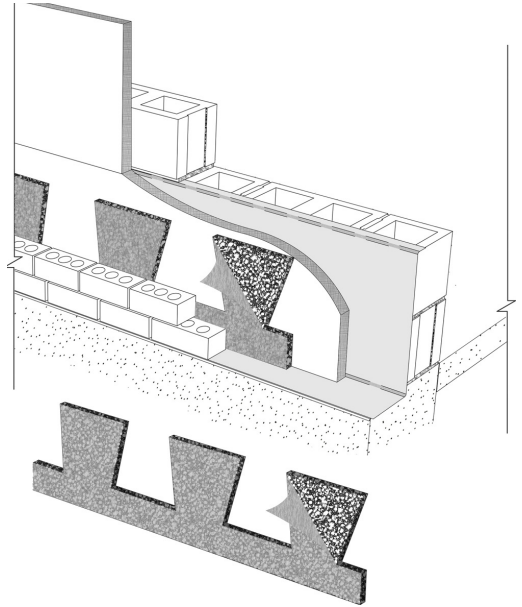
Length: 5' (1.524 m) sections – all thicknesses

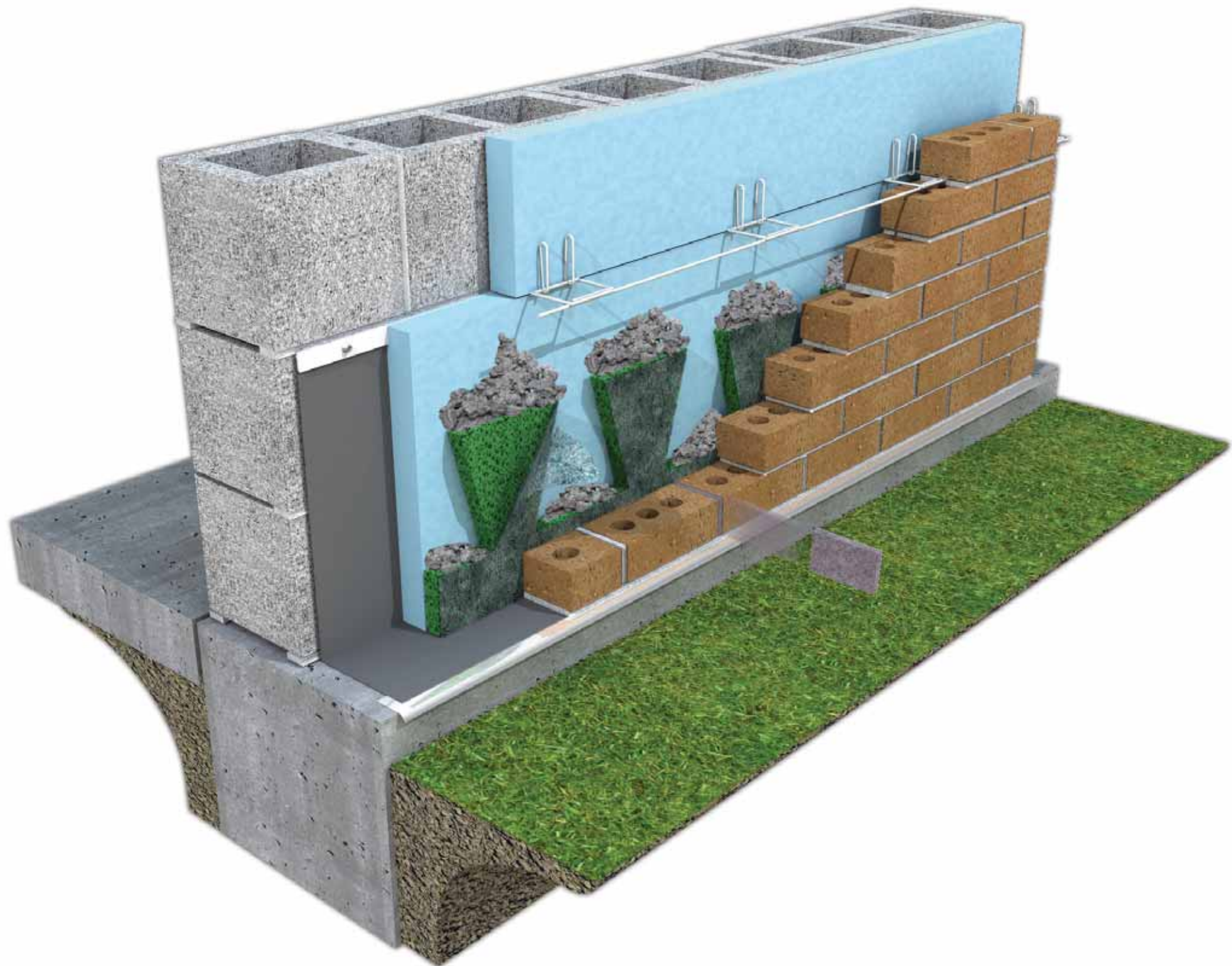
Packaging

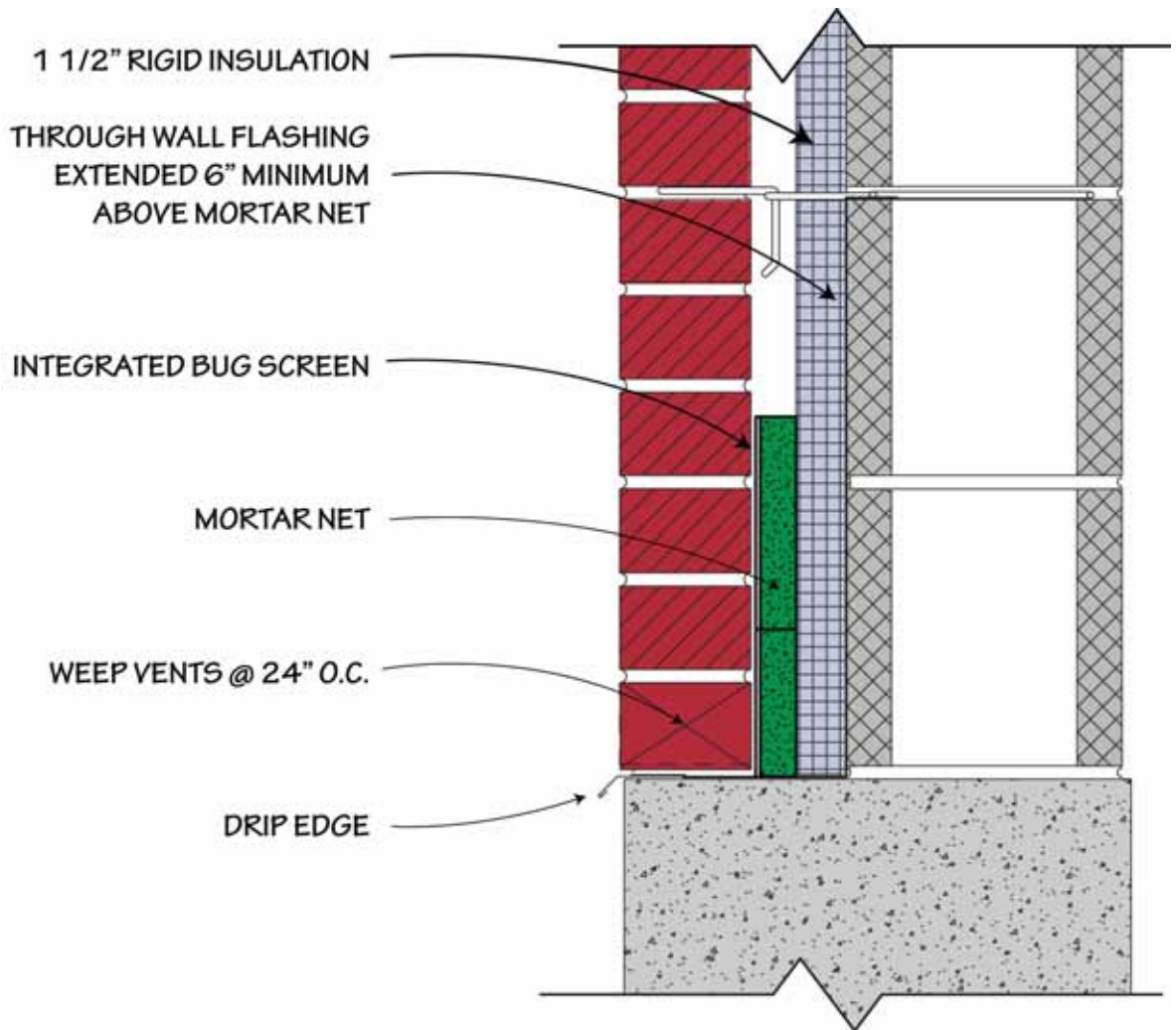
- 0.4" – 50 sections/250 LF (76.2 m) per box
- 1.0", 2.0" – 20 sections/100 LF (30.48 m) per box

Recycled Content

- 0.4" and 1.0" – 40% pre-consumer recycled nylon
- 2.0" – 44% recycled polyester (14% post-consumer, 30% pre-consumer)









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MortarNet®

Test Results

MortarNet® - 0.4 & 1 Inch

1/3

ROBERT L. NELSON & ASSOCIATES, INC.
Construction Materials Laboratory
1220 Remington Road
Schaumburg, IL 60173
847/882-1146

Comparative Study of the Effectiveness of Two Wall Drainage Systems Used in Masonry Cavity Wall Construction

Test Method

ASTM E514 (Modified), "Test Method for Water Permeance of Masonry"

Test Program

The purpose of this study is to determine the effectiveness of the Mortar Net® wall drainage system in comparison to the use of pea gravel (3/8") aggregate in a cavity wall masonry system.

Wall Fabrication

Walls for this study were constructed to ASTM E514-90 requirements. Two walls consisting of double wythes with standard face brick, nominal 4" CMU and a nominal 2" cavity between the wythes (56" wide x 72" high) were built in one day (2.5 hours each) by an experienced lead mason. Workmanship judged average. Ambient temperature maintained between 65–75° F during fabrication and curing period. The walls were constructed on an inverted steel channel and the bottom course of each wythe was laid on a bed of mortar which covered the full length of the mortar bed. Mortar droppings consistent with mortar dropping quantities and distributions common to normal construction were allowed to accumulate in the cavity of each wall. Full weep holes were maintained at the head joints of the lower brick wythe. Flashing with end dams was placed beneath the brick wythe and extended to the inside face of the CMU wythe to facilitate the collection of water which passed through the face brick wythe.

Test Procedures

ASTM E514-90, Section 4 test procedures and fixture specifications were followed throughout, except the test period was extended from four hours to 72 hours. ASTM E514-90 test chambers were constructed of welded aluminum angle stock and the observation face of the chamber was outfitted with Lexan sheet to allow full view into the chamber. Each frame was outfitted with a flow meter. During the testing, the frame was pressurized to 10 psf and the water flow was adjusted to 40.8 gal/hr. which is equal to 3.4 gal/ft²/hr. The units were held in place with clamps, and a closed cell foam gasket material and silicone caulking provided the proper tight seal. To facilitate a tight seal, the test frame was attached to the smooth face of the brick, making this the exposed face.

TEST RESULTS	WALL A	WALL B
Drainage System	Mortar Net®	Pea Gravel
First Visible Water on Cavity Side of Brick	10 minutes	7 minutes
Appearance of Flowing Water on Cavity Side of Brick	17 minutes	16 minutes
Water Passing Through Weephole at the Brick Wythe Face		
3 Hours	2.6 gal/hr.	.51 gal/hr.
72 Hours	2.9 gal/hr.	1.06 gal/hr.

Conclusion

This study indicates that the Mortar Net® is *clearly superior to pea gravel* in allowing water to pass from the cavity to the exterior of the wall via the weep holes, with a flow rate approximately five times that of pea gravel after three hours and more than twice that of pea gravel after 72 hours.



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Test Results

MortarNet® - 0.4 & 1 Inch

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PERFORMANCE TEST REPORT

Performed by Architectural Testing, Inc., York, PA.
April 2004

The purpose of the testing was to conduct airflow testing on a brick wall with two different mortar collection devices. A brick wall was constructed 5'0" wide and 10'0" high with three (3) 1/2" wide by 2 3/4" high open head joints at the top and three (3) at the bottom of the wall. The mortar collection devices were "Mortar Net" and Product B (a straight strip device manufactured by another company). Airflow testing was done in accordance with ASTM E 283-91, *Standard Test Method for Determining the Rate of Air Through Wall Assemblies*. Airflow readings were measured before and after a consistently measured amount of mortar was evenly distributed in a 1" cavity. Mortar Net Weep Vents were installed in all head joints for consistency throughout the testing.

Test results show the comparison between an open 1" cavity with no mortar droppings versus a 1" cavity with 23.8 pounds of mortar droppings and the respective mortar collection device.

Testing with Bottom Weep Vents open only

<u>Wind Speed</u>	<u>Mortar Net</u>	<u>Product "B"</u>
15 mph	0% Air Flow reduction	15% Air Flow reduction
25 mph	0% Air Flow reduction	42% Air Flow reduction
50 mph	0% Air Flow reduction	47.5 % Air Flow reduction

Testing with Top and Bottom Weep Vents open

<u>Wind Speed</u>	<u>Mortar Net</u>	<u>Product "B"</u>
15 mph	0% Air Flow reduction	0% Air Flow reduction
25 mph	0% Air Flow reduction	23.5% Air Flow reduction
50 mph	0% Air Flow reduction	28% Air Flow reduction

Conclusion: Airflow is a critical part of drying out a cavity wall assembly and the results show conclusively that Mortar Net with its dovetail shaped design outperforms "straight strip" products in general. If there is a considerable amount of reduction in airflow, then it can also be assumed that there would be a corresponding reduction in drainage since liquids and air will seek a similar path to exit the cavity area. Please visit our website, www.mortarnet.com for more information.



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Test Results

MortarNet® - 0.4 & 1 Inch

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Weep / Vent Testing

Architectural Testing, Inc., York, PA.
April 2004

The purpose of this testing was to conduct airflow testing on a brick wall with two different types of weep/vent products. A brick wall was constructed 5'0" wide and 10'0" high with three (3) ½" wide by 2 ¾" high open head joints at the top and three (3) at the bottom of the wall. The Mortar Net Weep/Vents and a cellular venting product were tested to determine a comparison between the two products in terms of airflow into and out of the cavity. Airflow testing was done in accordance with ASTM e 283-91 *Standard Test Method for Determining the Rate of Airflow Through Wall Assemblies*. The cavity was 1" thick with no mortar droppings and no mortar collection device. Both products were tested in the same brick test wall and using the same original head joints to develop a consistency throughout the testing.

Weep/Vent Testing

<u>Wind Speed</u>	<u>Mortar Net Weep/Vent</u>	<u>Cellular Vent</u>	<u>Redesigned Mortar Net Weep Vent</u>
15 mph	4.4 cu/ft/min	4.4 cu/ft/min	5.9 cu/ft/min
25 mph	11.5 cu/ft/min	9.2 cu/ft/min	15.6 cu/ft/min
50 mph	30.4 cu/ft/min	22.8 cu/ft/min	41.3 cu/ft/min

Conclusion: Even though the Mortar Net Weep/Vent outperformed the cellular vent product in terms of airflow, and because of this test information, Mortar Net has redesigned our Weep/Vent product in June 2004 to achieve even greater airflow. The new Mortar Net Weep/Vent was retested and found to provide **36% more airflow than our previously tested material**. Because of the dramatic improvement, Mortar Net has changed all of its Weep/Vent products to the new redesigned material as of August 1, 2004. Please visit our website, www.mortarnet.com for more information.



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MortarNet®

Test Results

MortarNet® - 2 Inch

1/1

These non-woven products are made from polyester fiber bonded with flame retarded adhesive that contains an antimicrobial to effectively control the growth of mold, mildew, algae, and fungi on the bonded product. The products are very permeable to air, water or water vapor due to the low fiber density of the non-woven structure. The void volume of these products is approximately 99% with only 1% solidity. They also have excellent flame retardant properties, and the vertically held test sample will self extinguish after the flame source is removed.

TEST RESULTS

PROPERTY	201531
WEIGHT (oz/sq.yd)	17.1
THICKNESS (inches)	0.96
COLOR	Green
DENSITY (lb./cu.ft.)	1.48

FLAMMABILITY

Fed. Std. 191A	Vertical method 5903, average results reported.
Flame time (sec.)	5
After glow (sec.)	4
Charred length (in.)	1.5

MICROBIAL GROWTH

Filtration products containing the same % antimicrobial additive pass the ASTM fungal resistancy test standards D-2020 and C-665. C-665 is a standard specification for mineral fiber blanket thermal insulation for light frame construction and manufactured housing. This test is used to determine the ability of insulation to support fungi growth under conditions favorable for their development, namely high humidity and warm atmosphere.

1. **Test method #66:** Average weight of two 18" x 18" specimens expressed in oz./sq.yd. Two specimens are cut from the width of the web, both from approximately 8" in from edge.
2. **Test method BN 14-2:** Average thickness as manufactured prior to compression in roll. Three 4" x 4" specimens, one cut from approximately 4" in from each edge and one from the approximate center of the web. The specimen is placed on a flat surface, and a flat metal plate 4" x 4" that weighs 10 oz. is placed over the specimen. The thickness is measured from each side and averaged. The average of the three specimens is reported as the thickness.
3. **Test method FMVSS 302** (Federal Motor Vehicle Safety Standard): The requirement is that a horizontally placed specimen when ignited will not burn faster than 4" per min.



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Web: www.mortarnet.com

MortarNet® (updated to include Insect Barrier) Master Specification

MASONRY ACCESSORIES 04 05 23

This MANU-SPEC utilizes the Construction Specifications Institute (CSI) Manual of Practice, including Master Format, Section Format, and Page Format. A MANU-SPEC is a manufacturer specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets (); delete optional text in final copy of specification. Specifier Notes typically precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate symbols typically are used in Specifier Notes; symbols are not used in specification text. Metric conversion, where used, is soft metric conversion.

This MANU-SPEC specifies a fabricated open mesh intended to catch and permanently suspend mortar droppings above weep holes, marketed under the Mortar Net® brand name, as manufactured by Mortar Net USA, Ltd. (Patent Reissue #36676) When placed in the collar joint or cavity on top of the flashing at the base of a wall, over wall openings or flashing locations trapezoidal shaped Mortar Net® with Insect Barrier catches and permanently suspends mortar droppings in an irregular pattern above the weep hole vents. Due to its unique trapezoidal shape and strong plastic construction, mortar droppings cannot fall to the base of the flashing, so weep hole vents stay open. Because it prevents mortar droppings from forming a continuous dam, and due to its 90% open weave, moisture can pass quickly and easily to the weeps and air pressure differentials between the cavity and the exterior can equalize through the open weeps and Mortar Net® itself. Revise MANU-SPEC section number and title below to suit project requirements, specification practices and section content.

SECTION 04 05 23 MASONRY ACCESSORIES (MASONRY ASSEMBLIES)

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes: Trapezoidal shaped mortar dropping collection device with Insect Barrier for masonry cavity walls.

Specifier Note: Revise paragraph below to suit project requirements. Add section numbers and title per CSI Master Format and specifier's practice.

B. Related Sections: Section(s) related to this section include:

1. Unit Masonry: Division 4 Unit Masonry Assembly Section.
2. Wall Flashing: Division 7 Flashing Section.
3. Brick and Block Vents: Division 10 Vents Section.

Specifier Note: Retain paragraph below to suit project requirements. Coordinate with Part 2 Products herein and other Contract Documents.

C. Unit Prices: Products and Installation included in this section are specified by unit prices. Refer to Division 1 Unit Prices Section for unit prices amounts and requirements.

1. Unit Price: Unit price is per lineal foot (304.8 mm).

MORTAR NET® CAVITY WALL SPECIFICATIONS

1.02 SYSTEM DESCRIPTION

A. System Description: Use The Trapezoidal shaped Mortar Net[®] with Insect Barrier technology adhered to the face of the Mortar Net[®]. (Insect Barrier is a thermally bonded UV stable fiber mesh that enhances the protection against insects entering the open head joint) as part of standard masonry cavity wall flashing/weep hole wall drainage systems. The Mortar Net[®] keeps weep holes open and flashing free of mortar droppings and debris by catching and permanently suspending droppings above the level of the top of the weep hole vents, by preventing mortar from forming a continuous barrier against proper water flow to the weeps and by providing routes through the body of the product itself for water to flow to the flashing and weeps. The insect barrier adds a layer of protection against insects entering the cavity wall through openings in the face brick.

B. Performance Requirements: Provide (Section/Product Title) which has been manufactured, fabricated and installed to withstand loads from (specify code/standard reference,) and to maintain (specify performance criteria,) performance criteria stated (certified) by manufacturer without defects, damage or failure.

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities in Conditions of the Contract and Division 1 Submittal Procedures Section.

1.03 SUBMITTALS

A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.

B. Product Data: Submit product data, including manufacturer's SPEC-DATA product sheet, for specified products.

C. Samples: Submit selection and verification samples.

D. Quality Assurance Submittals: Submit the following:

1. Certificates: Product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria.

2. Manufacturer's Instructions: Manufacturer's Installation Instructions.

Specifier Note: Article below should include prerequisites, standards, limitations and criteria which establish an overall level of quality for products and workmanship for this section. Coordinate below article with Division 1 Quality Assurance Section.

1.04 QUALITY ASSURANCE

A. Installer Qualifications: Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project.

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section. General statements to comply with a particular code are typically addressed in Conditions of the Contract and Division 1 Regulatory Requirements Section. Repetitive statements should be avoided.

B. Regulatory Requirements: (Specify applicable requirements of regulatory agencies.)

Specifier Note: Coordinate paragraph below with Division 1 Project Management and Coordination (Project Meetings) Section.

C. Pre-installation Meeting: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions and manufacturer's warranty requirements.

Comply with Division 1 Project Management and Coordination (Project Meetings) Section.

Specifier Note: Article below should include special and unique requirements. Coordinate article below with Division 1 Product Requirements Section.

1.05 DELIVERY, STORAGE AND HANDLING

A. General: Comply with Division 1 Product Requirements Sections.

B. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.

C. Packing, Shipping, Handling and Unloading: (Specify applicable requirements.)

Specifier Note: Products of 1" (25.4 mm) thickness and 2" (50.8 mm) thick material are shipped 100 lineal feet (30,480 mm) per cardboard box, twenty 5' (1524 mm) sections per box. 0.4" (10.2 mm) thick material is shipped 250 lineal feet (76,200 mm) per cardboard box, fifty 5' (1524 mm) sections per box. Product requires no special handling, is very lightweight, and boxes and loose materials are easily handled by 1 person. Secure loose and boxed material during strong winds.

D. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

E. Storage and Protection: Store materials protected from exposure to harmful weather conditions and at temperature conditions recommended by manufacturer.

1. Do not expose material to direct sunlight for more than 2 weeks. If material is protected from exposure to direct sunlight it may be stored indefinitely.

1.06 SEQUENCING

A. General: Install trapezoidal shaped Mortar Net[®] with Insect Barrier product after flashing has been installed, the first 1 or 2 courses of brick have been laid, and weep holes have been created. Install product before third or higher courses of brick have been laid.

Specifier Note: Coordinate article below with Conditions of the Contract and with Division 1 Closeout Submittals (Warranty) Section.

1.07 WARRANTY

A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.

B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under Contract Documents.

Specifier Note: Coordinate paragraph below with manufacturer's warranty requirements. Mortar Net USA, Ltd. warrants its products to be of the quality and composition stated and free of manufacturer's defects. It will replace or refund the purchase price of any product proved defective. This limited warranty is the only warranty extended by Mortar Net USA, Ltd. In regard to its product, Mortar Net USA, Ltd.'s liability shall not exceed the purchase price of the material in question. Every construction project is unique; therefore, every use of the trapezoidal shaped Mortar Net with Insect Barrier and Mortar Net Weep Vents must be evaluated and approved by a qualified professional such as an architect or engineer familiar with the project.

1. Warranty Period: (Specify term,) years commencing on Date of Substantial Completion.

PART 2 PRODUCTS

Specifier Note: Retain article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal" or "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.01 CAVTTY WALL DRAINAGE SYSTEM

A. Manufacturer: Mortar Net USA, Ltd.

Specifier Note: Paragraph below is an addition to CSI Section Format and a supplement to MANU-SPEC.

Retain or delete paragraph below per project requirements and specifier's practice.

1. Contact: 326 Melton Road, Burns Harbor, IN 46304; Telephone: (800) 664-6638, (219) 787-5080;

Fax: (219) 787-5088, E-mail: info@mortarnet.com Website: www.mortarnet.com

Specifier Note: The trapezoidal shaped Mortar Net[®] with Insect Barrier is manufactured of nylon and polyester, fabricated in a 90% open mesh, 2", 1" or 0.4" (51, 25.4, 10.2 mm) thick. It has no negative reaction to PVC, polyethylene, polystyrenes, copper, lead, rubberized asphalt, or stainless steel and will not degrade or decompose over the life of the building. It will not absorb or trap moisture and water, and it will not support mold or fungus. The insect barrier is a densely weaved membrane attached to the face of the Mortar Net[®] that will not deteriorate over the life of the building under normal construction installations. Mortar Net[®] is patented U.S. Patent Reissue #36675, Mortar Net[®] with Insect Barrier patent pending.

B. Proprietary Product(s)/System(s): The Mortar Net[®] accessory.

1. Trapezoidal shaped Mortar Net[®]/Insect Barrier MN 10-1: 10" (254 mm) high x 1" (25.4 mm) thick material.

2. Trapezoidal shaped Mortar Net[®]/Insect Barrier MN 10-0.4: 10" (254 mm) high x 0.4" (10.2 mm) thick material.

3. Trapezoidal shaped Mortar Net[®]/Insect Barrier MN 10-2: 10" (254 mm) high x 2" (51 mm) thick material.

Specifier Note: Edit article below to suit project requirements. If substitutions are permitted, edit text below. Add text to refer to Division 1 Project Requirements (Product Substitutions Procedures) Section.

2.02 SUBSTITUTIONS

A. Product Substitutions: No substitutions permitted.

2.03 MATERIALS

Specifier Note: 0.4" (10.2 mm) and 1" (25.4 mm) thick material is partial recycled nylon, and 2" (51 mm) thick material is partial recycled polyester. None of these materials will oxidize, rot, support mold or fungus, or react with common building materials, including mortar, cement asphalt, modified bitumen, PVC, copper, steel, or galvanized metal, and they are not edible by insects. The material retains its slope anti-rigidity and is undamaged by extended exposure to normal field temperatures, and is highly resistant to UV degradation. Insect Barrier fabric is made of nylon and polyester woven material that will not deteriorate under normal construction installations.

A. Materials: Manufacturer's standard trapezoidal shaped Mortar Net[®] material with Insect Barrier for specified product.

1. All dimensions are nominal. Measurements are inclusive of the continuous bottom strip and the trapezoidal shape.

2. Three available sizes: 1" (25.4 mm) and 0.4" (10.2 mm) thicknesses by 10" (254 mm) height by 5' (1524 mm) long. 2" (51 mm) thick by 10" (254 mm) x 5' (1524 mm) long.

3. Continuous bottom strip on all sizes of material is 3" (76.2 mm) high, regardless of material thickness or overall material height.

4. 0.4" (10.2 mm) and 1" (25.4 mm) thick material is partial recycled nylon, and 2" (51 mm) thick material is partial recycled polyester. Product is a 90% open weave mesh in a trapezoidal configuration connected by a continuous bottom strip. The insect barrier fabric is made of nylon and polyester woven material and is attached to the face of the trapezoidal Mortar Net[®] material.

2.04 SOURCE QUALITY

A. Source Quality: Obtain the trapezoidal shaped Mortar Net[®] materials with Insect Barrier from a single manufacturer.

PART 3 EXECUTION

Specifier Note: Article below is an addition to the CSI Section Format and a supplement to MANU-SPEC.

Revise article below to suit project requirements and specifier's practice.

3.01 MANUFACTURER'S INSTRUCTIONS

A. Compliance: Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions and product carton instructions for installation.

3.02 EXAMINATION

A. Site Verification of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.

1. Match product size to cavity size. Cavity should be no more than 0.25" (6.4 mm) wider than 1" (25.4 mm) thick material and 2" (51 mm) thick material, and 0.4" (10.2 mm) thick material should touch both the outer wythe and the inner wall. For cavities larger than 2" (51 mm), place rigid insulation of sufficient height to extend at least 6" (152 mm) above the top of the Mortar Net[®] with Insect Barrier against the outside of the inner wythe and of appropriate thickness to reduce the cavity to the appropriate size or add additional layers of Mortar Net[®] to fill width of cavity.

2. Inspect for and repair holes in flashing immediately prior to installing Mortar Net[®] with Insect Barrier.

3.03 PREPARATION

A. Preparation: Clean flashing and weep holes so they are free of mortar droppings and debris immediately prior to installing Mortar Net[®] with Insect Barrier. If wicks are used (not recommended), prevent mortar from coating or covering wicks inside the cavity. Washing flashing with water or chemicals prior to installation is not necessary. Specifier Note: Coordinate article below with manufacturer's recommended installation details and requirements. Specifier Note: Manufacturer recommends placing one continuous row of Mortar Net[®] with Insect Barrier in the collar joint or cavity on the flashing at the base of the wall, at each flashing level and over lintels. Position with the trapezoidal side up (see manufacturer's CAD details). The Mortar Net[®] with Insect Barrier should fit snugly in cavity, so if cavity is greater than 2" (51 mm) wide, either use several thicknesses of the Mortar Net[®] with Insect Barrier or use appropriately sized Styrofoam board (or equivalent) not less than 16" (406 mm) high as a spacer to fill excess space. Place spacer against the outside of the interior wall so the Mortar Net[®] with Insect Barrier is against the inside of the exterior wythe or apply additional rows of Mortar Net[®] with Insect Barrier to fill width of cavity. If no spacer is used, flashing should extend not less than 6" (152 mm) above the top of the Mortar Net[®] with Insect Barrier to avoid the possibility of mortar bridging between the exterior wythe and interior wall. Adhesives, fasteners, specials skills or tools are not required.

3.04 INSTALLATION

A. Mortar Net[®] with Insect Barrier Installation:

1. For most walls, install one continuous row of trapezoidal shaped Mortar Net[®] with Insect Barrier at base of wall and over all wall openings directly on flashing.
2. To prevent mortar bridging between the outer wythe and inner wall, install flashing extending from the bottom of the Mortar Net[®] with Insect Barrier to at least 6" (152 mm) above the top of the Mortar Net[®] with Insect Barrier.
3. Multiple thicknesses of The Mortar Net[®] with Insect Barrier may be installed to match cavity widths and if excessive droppings are expected. Inspection, preparation and installation procedure for multiple thicknesses is the same as for single thickness. When installing multiple thicknesses, align the trapezoidal shaped sections with each other.
4. To match cavity width to product thickness without using multiple thicknesses of the Mortar Net[®] with Insect Barrier, place rigid insulation of appropriate thickness against outside face of inner wall.
5. Lay the first 1 or 2 courses of brick at flashing level, then install Mortar Net[®] with Insect Barrier continuously by placing it against the inside of the openings. Install Mortar Net[®] with Insect Barrier with fabric facing to the exterior of the wall. No fasteners or adhesives are required, and mortar need not have set.
6. The Mortar Net[®] with Insect Barrier shall not come in contact with wall ties standard wall tile installations, but if it does, it may be cut or torn to accommodate wall ties, conduit, plumbing or other materials that bridge or intrude into cavity between inner and outer walls.
7. Compress the Mortar Net[®] with Insect Barrier horizontally so it can be forced into cavities slightly smaller than its nominal thickness without affecting Mortar Net[®] with Insect Barrier or wall performance.
 - a. When forcing the Mortar Net[®] with Insect Barrier into a cavity, be sure mortar has set sufficiently to resist outward pressure from product.

B. Related Products Installation: Refer to other sections for installation of related products as follows:

1. Masonry: Refer to Division 4 Unit Masonry Sections.

3.05 PROTECTION

1. Protection: Protect installed product from damage during construction.

END OF SECTION

FOR MORE INFORMATION, PLEASE VISIT US AT WWW.MORTARNET.COM

326 Melton Road • Burns Harbor, IN 46304 Tel: 800.664.6638 • Fax: 219.787.5088

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