

Kimberly-Clark Worldwide Inc.



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This Manu-Spec® utilizes the Construction Specifications Institute (CSI) *Project Resource Manual* (PRM), including *MasterFormat™*, *SectionFormat™* and *PageFormat™*. 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 precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate product model numbers, styles and types are used in Specifier Notes and in the specification text Article titled "Acceptable Material." Metric conversion, where used, is soft metric conversion.

This Manu-Spec specifies BLOCK-IT®, a vapor retarder housewrap. This product is manufactured by Kimberly-Clark Worldwide Inc. Revise Manu-Spec section number and title below to suit project requirements, specification practices and section content. Refer to *CSI MasterFormat* for other section numbers and title

**07 25 00
VAPOR RETARDERS**

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes: This Section specifies mechanically fastened vapor retarder.

Specifier Note: Revise Paragraph below to suit project requirements. Add section numbers and titles per CSI MasterFormat and specifiers practice.

- B. Related Requirements:

Specifier Note: Include in this Paragraph only those sections and documents that directly affect the work of this section. If a reader of this section could reasonably expect to find a product or component specified in this section, but it is actually specified elsewhere, then the related section number(s) should be listed in the Subparagraph below. Do not include Division 00 documents or Division 01 sections since it is assumed that all technical sections are related to all project Division 00 documents and Division 01 sections to some degree. Refer to other documents with caution since referencing them may cause them to be considered part of the Contract.

- 1. Section [].

1.2 REFERENCES

Specifier Note: Define terms that are unique to this Section and are not provided elsewhere in the contract documents. Include in this Article terms that are unique to the work result specified that may not be commonly known in the construction industry. Delete the following Paragraph if no Definitions are required.

- A. Definitions:
 - 1. [].



Specifier Note: Paragraph below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain References Paragraph when specifying products and installation by an industry reference standard. List retained standard(s) referenced in this section alphabetically. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced and update as applicable. Contract Conditions Section 01 42 00 - References may be used to establish the edition date of standards. This Paragraph does not require compliance with standard(s). It is a listing of all references used in this section. Only include here standards that are referenced in the body of the specification in PARTS 1, 2 and/or 3. Do not include references to building codes at any level.

B. Reference Standards:

1. ASTM International (ASTM):
 - a. ASTM D779 [2003], Standard Test Method for Water Resistance of Paper, Paperboard and Other Sheet Materials by the Dry Indicator Method.
 - b. ASTM D5034 [2013], Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test).
 - c. ASTM E84 [2015], Standard Test Method for Surface Burning Characteristics of Building Materials.
 - d. ASTM E96/E96M [2014], Standard Test Methods for Water Vapor Transmission of Materials.
 - e. ASTM E2178 [2013], Standard Test Method for Air Permeance of Building Materials.
 - f. ASTM E2273 [2011], Standard Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies.
2. International Code Council (ICC):
 - a. ICC AC38 [2013], Water Resistive Barriers.
3. Oregon Residential Specialty Code:
 - a. Section R703.1 for drainage housewrap products.
4. US Green Building Council (USGBC):
 - a. LEED v4-[2014], LEED (Leadership in Energy and Environmental Design): Green Building Rating System.

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 Contract Conditions and Section 01 33 00 - Submittal Procedures.

1.3 SUBMITTALS

- A. Make submittals in accordance with Section [01 33 00 - Submittal Procedures].
1. Product Data: Manufacturer's standard specifications and descriptive literature, including:
 - a. SPEC-DATA product sheet.
 - b. Catalog pages and cut-sheets illustrating specified products.
 - c. Material Safety Data Sheets (MSDS).
 - d. Sample Warranty.

Specifier Note: Specify submittals intended to document manufacturer storage, installation and other instructions.

2. Manufacturer's written Instructions, including:
 - a. Delivery, storage and handling recommendations.
 - b. Preparation and Installation recommendations.

Specifier Note: Coordinate Article below with Contract Conditions and with Section 01 78 36 - Warranties.

3. Warranty: Fully executed, issued in [Owner's] name, and registered with manufacturer, including:
 - a. Manufacturer's [1-year] warranty, from date of substantial completion, covering defects in materials.

Specifier Note: Retain the following only if specifying for a LEED® project. Specify only the technical submittal requirements necessary to achieve the credits desired for this Project.

4. Sustainable Design (LEED) Submittals:

- a. LEED Submittals: In accordance with Section [01 35 21 – LEED Requirements].
- b. Submit verification for items as follow:
 - 1) [].

1.4 QUALITY ASSURANCE

- A. Installer: Experienced in performing work of this Section and in installation of vapor retarder work similar to that required for this project.

1.5 DELIVERY, STORAGE & HANDLING

- A. Deliver materials in accordance with manufacturer's written instructions.
 1. Deliver vapor retarder in manufacturer's original, unopened, undamaged containers with identification labels intact and manufacturer and product name clearly visible.
 2. Store materials off ground and protected from exposure to UV and other harmful environmental conditions
 3. Store materials in clean, dry, frost-free conditions and at recommended temperature and humidity levels.
 - a. Do not store materials in locations where temperatures may be less than -70 degrees F.
 - b. Keep packaging sealed until ready for use.

1.6 FIELD CONDITIONS

- A. Do not use when temperature is less than -70°F.

1.7 WARRANTY

- A. Project Warranty: Refer to Contract Conditions for project warranty provisions.
- B. Manufacturer's warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official.
 1. Manufacturer's warranty is in addition to and not intended to limit other rights Owner may have under Contract Conditions.

PART 2 PRODUCTS

Specifier Note: Retain Article below for proprietary method specification. Add product attributes performance characteristics, material standards and descriptions in other Articles as applicable. Use of such phrases as or equal, 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.

2.1 MANUFACTURER

- A. Kimberly-Clark Worldwide Inc.
- B. Contact: 1400 Holcomb Bridge Road, Roswell, GA 30076; Phone: 770-587-8000, Fax: 770-587-7231; E-mail: customerservice@kcc.com; Web: www.block-it.com.
- C. Acceptable Material: Kimberly-Clark Worldwide Inc., BLOCK-IT House Wrap.

Specifier Note: Retain and edit the following Article to suit the project requirements. Different applications will require different performance requirements.

2.2 PERFORMANCE REQUIREMENTS

- A. Comply with ICC AC308: ICC-ESR-3641.
 1. UV exposure: Pass.
 2. Accelerated aging: Pass.
 3. Low temperature bend/pliability: Pass.
- B. Water Resistance: Pass 60 minutes "as is" and "aged" to ASTM D779.

- C. Tensile Strength: To ASTM D5034.
 - 1. Machine direction: 50 pounds-force.
 - 2. Cross direction: 40 pounds-force.
- D. Drainage Efficiency: 98% to ASTM D2273 and in compliance with Oregon Residential Specialty Code (Section R703.1) for drainage housewrap products.
- E. Water Vapor Transmission: To ASTM E96.
- F. Air Permeance: To ASTM E2178.
- G. Surface Burning Characteristics to ASTM E84:
 - 1. Flame spread: Class A.
 - 2. Smoke developed: Class A.

2.3 MATERIALS

- A. Materials: Microporous film laminated to spunbound polypropylene fabric composed of small denier fibers, including olefin.

Specifier Note: ASTM D3776 tests the weight of materials using metric units of measurement in the testing procedures. The weight of 110 g/m² is approximately 3.24 oz/yd².

- 1. Overall Weight: 110 g/m² to ASTM D3776.

Specifier Note: Contact the manufacturer's technical representative for your location to determine availability of roll widths suitable for the project.

- 2. Roll Size: 3–10 feet wide by 100 to 150 feet long.
- 3. Acceptable Material: Kimberly-Clark Worldwide Inc., BLOCK-IT House Wrap.

2.4 ACCESSORIES

- A. Mechanical Fasteners: Cap nails or staples in accordance with vapor retarder manufacturer's written recommendations.
- B. Sealing Tape: Self-adhesive acrylic seam sealing tape.
- C. Flashing Tape: Flashing tape with acrylic or butyl adhesive in accordance with manufacturer's written recommendations.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Site Verification of Conditions;
 - 1. Verify that substrate conditions previously installed under other sections or contracts are acceptable for product installation in accordance with vapor retarder manufacturer's written recommendations.
 - a. Inform Architect of unacceptable conditions immediately upon discovery.
 - b. Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Architect.
 - c. Verify that substrate and adjacent materials are dry and ready to receive vapor retarder.
 - 2. Start of vapor retarder installation indicates installer's acceptance of substrate conditions.

3.2 INSTALLATION

- A. Install vapor retarder in accordance with manufacturer's written recommendations.
- B. Do not install vapor retarder over saturated OSB.
- C. Start at corner and install vapor retarder in shingle fashion with fabric side facing exterior.
 - 1. Ensure vapor retarder continues beyond band joist and extends 2 inches minimum below frame to foundation intersection.
 - 2. Fasten in place using cap nails or staples at 24 inches on center maximum.

- a. Ensure fasteners are 4 inches minimum away from material edges and 12 inches minimum away from top of doors and windows.
- D. Continue installing vapor retarder and ensure 6 inches minimum overlap at horizontal joint and 12 inches minimum overlap at vertical joints.
- E. Install vapor retarder beyond attic and other unoccupied spaces to roofline and under trim.
 - 1. Ensure vapor retarder integrates correctly with flashing.
 - 2. Trim vapor retarder at intersection of wall and roof.
- F. Overlap edges 24 inches minimum beyond corner if seams fall within 16 inches of exterior corner of structure.
- G. Cut vapor retarder at windows, doors and other penetrations in accordance with manufacturer's written recommendations.
- H. Flash around penetrations with flashing tape.
 - 1. Apply flashing tape to vertical edges of vapor retarder flap in accordance with manufacturer's written recommendations.
- I. Repairs:
 - 1. Repair small tears less than 6 inches long in vapor retarder with sealing tape.
 - 2. Repair tears longer than 6 inches by cutting flap in vapor retarder 2 inches minimum beyond bottom and sides of tear.
 - a. Insert wider piece of vapor retarder under flap, shingle style and seal edges.
 - b. Do not cover repairs with other work before receipt of approval from Architect.

3.3 CLEANING

- A. Perform daily progress cleaning.
- B. Upon completion, remove surplus materials, rubbish, tools and equipment.
- C. Waste Management:
 - 1. Collect recyclable waste and dispose of or recycle field generated construction waste created during construction or final cleaning related to work of this Section.
 - 2. Remove recycling containers and bins from site and dispose of materials at appropriate facility.

Specifier Note: Coordinate the following Article with Section 01 76 00 - Protecting Installed Construction.

3.4 PROTECTION

- A. Protect vapor retarder from damage during construction period.
- B. Repair damage to adjacent materials caused by installation of vapor retarder.

END OF SECTION