



## Product Guide Specification

*Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including MasterFormat, SectionFormat, and PageFormat, contained in the CSI Manual of Practice.*

*The section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the drawings.*

*Delete all "Specifier Notes" when editing this section.*

### SECTION 07270 AIR BARRIERS

*Specifier Notes: This section covers Pactiv Building Products GreenGuard® "Value Wrap" Housewrap. Housewrap is a weather-resistive barrier that provides protection against air infiltration and bulk moisture penetration in exterior wall applications involving siding, brick, stone, masonry, stucco, and concrete systems. Housewrap can be used for added weather protection in exterior wall systems that incorporate wood and insulating sheathings.*

*Consult Pactiv Building Products for assistance in editing this section for the specific application.*

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Housewrap to provide protection against air infiltration and bulk moisture penetration in exterior walls.

##### 1.2 RELATED SECTIONS

*Specifier Notes: Edit the following list of related sections as required for the project. List other sections with work directly related to this section.*

- A. Section 07100 - Dampproofing and Waterproofing.  
B. Section 07210 - Building Insulation.  
C. Section 07260 - Vapor Retarders.

### 1.3 REFERENCES

*Specifier Notes: List standards referenced in this section, complete with designations and titles. This article does not require compliance with standards, but is merely a listing of those used.*

- A. ASTM D 751 - Standard Test Methods for Coated Fabrics.
- B. ASTM D 779 - Standard Test Method for Water Resistance of Paper, Paperboard, and Other Sheet Materials by the Dry Indicator Method.
- C. ASTM D 882 - Standard Test Method for Tensile Properties of Thin Plastic Sheeting.
- D. ASTM D 1117 - Standard Guide for Evaluating Nonwoven Fabrics.
- E. ASTM D 1777 - Standard Test Method for Thickness of Textile Materials.
- F. ASTM D 3776 - Standard Test Method for Mass Per Unit Area (Weight) of Fabric.
- G. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- H. ASTM E 96 - Standard Test Method for Water Vapor Transmission of Materials.
- I. ASTM E 283 - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.
- J. ASTM E 330 - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.
- K. ASTM E 331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference.

### 1.4 SUBMITTALS

- A. Comply with Section 01330 - Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including installation instructions.
- C. Samples: Submit manufacturer's samples of housewrap.
- D. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and code compliance and are suitable for intended application.

### 1.5 QUALITY ASSURANCE

- A. Code Compliance:
  - 1. ICC-ES Legacy Report NER-689.
  - 2. HUD/FHA UU-B-790A, Equivalent to Grade D, Type 15.
  - 3. ASTM D 226, Type I (Specification for Felt Building/Roofing Paper).
  - 4. ASTM E 1677, Type I (Specification for Air Retarder Materials or Systems).

### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage: Store materials in clean, dry area in accordance with manufacturer's instructions. Do not expose to flame or other ignition sources.

- C. Handling: Protect materials from damage during handling and installation.

## 1.7 ENVIRONMENTAL REQUIREMENTS

- A. Do not install materials over surfaces that are wet, frozen, or that contain frost. Wet surfaces should be allowed to dry before installing the siding material.

## PART 2 PRODUCTS

### 2.1 MANUFACTURER

- A. Pactiv Building Products, 2100 RiverEdge Parkway, Suite 175, Atlanta, Georgia 30328. Toll Free (800) 241-4402. Phone (678) 589-7309. Fax (678) 589-7330. Web Site [www.green-guard.com](http://www.green-guard.com).

### 2.2 MATERIALS

*Specifier Notes: Specify the following housewrap. Add weather-resistive barrier to the housewrap description in exterior wall systems that incorporate wood and insulating sheathings. Consult Pactiv Building Products for additional information.*

- A. Housewrap: GreenGuard Value Wrap.
1. Description: Exterior wall air infiltration barrier and bulk moisture penetration barrier. [Weather-resistive Barrier.]
  2. Material: GreenGuard Value Wrap consists of a cross-woven polyolefin scrim with a polyolefin coating. Value Wrap has micro-perforations to allow moisture vapor to escape.
  3. Thickness, ASTM D 1777: 0.008 inch (0.2 mm).
  4. Average Weight, ASTM D 3776: 13.9 pounds per 1,000 square feet (63.6 g/m<sup>2</sup>).
  5. Water Resistance, ASTM D 779: 36 minutes.
  6. Water Vapor Permeance, ASTM E 96, Procedure A: 15 perms.
  7. Water Vapor Transmission Rate, ASTM E 96, Procedure A: 105 g/m<sup>2</sup>/24 hours.
  8. Tensile Strength, ASTM D 882:
    - a. Machine Direction: 45 pounds per inch (7.9 N/mm).
    - b. Cross Direction: 29 pounds per inch (5.1 N/mm).
  9. Burst Strength, ASTM D 751: 145 psi (765.3 kPa).
  10. Trapezoid Tearing Strength, ASTM D 1117:
    - a. Machine Direction: 32 pounds per inch (5.6 N/mm).
    - b. Cross Direction: 41 pounds per inch (7.2 N/mm).
  11. Fire Characteristics, Flame Spread/Smoke Developed, ASTM E 84: Class A – 0/25.
  12. UV Resistance: 12 months.

### 2.3 ACCESSORIES

- A. Fasteners: Attach GreenGuard Value Wrap Housewrap using common roofing nails, plastic cap nails, or staples having a minimum 1-inch (25 mm) crown. If smaller crown staples are used, then more fasteners must be used. Fasteners must penetrate the underlying substrate or framing a minimum of 1/2 inch (13 mm).
- B. Housewrap Tape: GreenGuard Contractor Tape (Standard type) or an equivalent.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Examine areas to receive housewrap. Notify Architect of conditions that would adversely affect installation. Do not proceed with installation until unsatisfactory conditions are corrected.

### 3.2 SURFACE PREPARATION

- A. Ensure surfaces are clean, dry, and flat. Ensure surfaces are free of honeycombs, fins, and foreign material that could damage housewrap.

### 3.3 INSTALLATION

*Note 1: Do not use housewrap as a roofing paper or as a vapor retarder.*

*Note 2: Contact Pactiv Building Products for special installation details, such as housewrap and flashing integration, penetrations, and sealing techniques.*

1. Install housewrap underneath or over wood sheathing board or insulation.
2. Begin by aligning the bottom edge of the roll with the base of the wall, approximately 2 feet (610 mm) from a corner, with the print side facing out. Fold several inches (mm) of material under itself and fasten securely to a stud, wood sheathing or through insulation board to an underlying framing member.
3. Unroll the housewrap with the printed side facing out, wrapping the entire building, including door and window openings. Common galvanized roofing nails, plastic cap nails or staples with a minimum 1 inch (25 mm) crown may be used for attachment of the housewrap to structural sheathing, through insulation to framing members, or directly to studs. If smaller crown staples are used, then more fasteners must be used. When installing the housewrap over non-structural sheathing such as insulation board or directly to studs, fasteners should penetrate the underlying stud a minimum of 1/2 inch (13 mm). Fasteners should be spaced every 12 inches (305 mm) along every other stud location and every 6 inches (152 mm) around door and window openings.
4. For best results, cut a modified "I" pattern through the housewrap at window openings. Fold excess material inside the rough opening and fasten securely through all layers to a framing member. If doors and windows are already in place when installing the housewrap, trim as close to them as possible and tape housewrap edges. Use Pactiv Contractor Tape (Standard type) or equivalent tape to seal house wrap seams (optional) and around openings, window flanges, door jambs, sill plates, pipes, ducts, etc. Use of window flashing materials is encouraged. Refer to the Pactiv Building Products Housewrap Installation Guide for detailed information.
5. When the end of a roll is reached, fold the edge of the housewrap under itself and attach to the structural sheathing, through insulation board to an underlying framing member, or directly to studs. Vertical and horizontal seams must be overlapped a minimum of 6 inches (152 mm) unless otherwise specified for a particular application. Upper courses of housewrap must overlap lower courses (in water shedding fashion).

### 3.4 PROTECTION

- A. Protect installed housewrap from damage until covered by exterior wall material.

**END OF SECTION**

GS-VW  
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