

**WRAPTOR®**  
**WEATHER RESISTIVE BARRIER & ACCESSORIES**  
**GUIDE SPECIFICATION SHEET**

**WRAPTOR®**  
**SPECIFICATIONS COMPARISON**

<b>TEST</b>	<b>METHOD</b>	<b>WRAPTOR®</b>
Base Weight	ASTM D-5261	1.9 oz/y <sup>2</sup>
Bursting Strength	ASTM D-3786	125 psi
Dry Tensile Strength	ASTM D-5034	60 lbs md, 55 lb xd
Trapezoidal Tear	ASTM D-4533	32 lbs md, 32 lb xd
Ultraviolet Light Exposure Resistance		3 months
Moisture Vapor Transmission Rate	ASTM E-96, Procedure B	>5 Perms
Water Resistance Test	ASTM D-779	Pass
Surface Burning Characteristics	ASTM E-84	Class A

**WRAPTOR® SPECIFICATIONS COMPLIANCE**

Section 072500 – Weather Barriers

Section 072800 – Water Resistive Barriers

SPEC NOTE: Following are suggested specification paragraphs to be used when specifying a building wrap membrane as a water-resistive barrier under Section 072700. Insert the required paragraphs into the Section under the noted Articles, and make any required selections, such as roll size. Where selection is indicated with an [OR] statement, select the appropriate paragraph and delete the inappropriate statement. Delete all SPEC NOTES and [OR] statements prior to final printing.

DISCLAIMER: The manufacturer has reviewed the product information contained in this short form specification and is responsible for its accuracy. The information is organized and presented to assist the specification writer working on a construction project to select the appropriate products and to save time in writing the project specification Section and is not intended to replace the manufacturers installation instructions.

**PART 1 – GENERAL**

**1.1 SUMMARY**

- A. Includes but not limited to:
  - 1. Furnish and install mechanically-fastened, thin sheet building wraps used as water-resistive barriers on exterior side of exterior wall assemblies as described in Contract Documents.

**1.2 REFERENCES**

- A. ASTM E-96 “Standard Test Method for Water Transmission of Materials”
- B. ASTM D-4533 “Standard Test Method for Trapezoidal Tearing Strength of Geotextiles”
- C. ASTM D-779 “Dry Indicator Method, Water Penetration Resistance
- E. TAPPI T-460 “Air Resistance of Paper”

**1.3 SUBMITTALS**

- A. Submit in accordance with Division 1 requirements
- B. Product Data: Submit manufacturer's product data, building code compliance reports or test reports and the manufacturer's printed installation guidelines.
- C. Samples: Submit clearly labelled samples, 3 by 4 in. minimum size of each material specified.
- D. Quality Assurance – Installer Qualifications:
  - 1. Installer shall have experience with installation of water-resistive barrier materials; and
  - 2. Installation shall be in accordance with the water-resistive building material manufacturer's installation guidelines.
- E. Shop Drawing of Wall Assembly Mock-Up: Submit shop drawings of proposed wall assembly mock-ups showing the location of the water-resistive barrier building wrap in the wall assembly and location of all window and door openings, penetrations and terminations involving structures attached to the exterior wall.

#### **1.4 QUALITY ASSURANCE – WATER-RESISTIVE BUILDING WRAP**

- A. Manufacturer: Obtain primary water-resistive barrier building wrap from a single manufacturer regularly engaged in manufacturing water-resistive barrier building wrap products.
- B. Accredited Laboratory Testing for Water-Resistive Barrier Building Wrap: Laboratory accredited by the International Accreditation Service Inc. (IAS) or the Standards Council of Canada (SCC).
- C. Pre-Construction Meeting: At least 2 weeks prior to the installation of the water-resistive building wrap, hold a pre-installation meeting. Attendees shall include representatives of related trades. Agenda shall include a review of wall assembly mock-up drawings, sequence of construction, coordination with substrate preparation, materials approved for use, compatibility of materials, coordination with installation of adjacent and covering materials, and details of construction.
- D. Wall Assembly Mock-Up: Build a mock-up representative of the primary exterior wall assemblies using approved water-resistive barrier building wrap, fasteners, flashing tape and related accessories as per the water-resistive barrier building wrap manufacturer's installation guidelines. Mock-up shall be approximately 8 feet long by 8 feet high and include all components of the exterior wall assembly.

#### **1.5 DELIVERY, STORAGE & HANDLING**

- A. Deliver water-resistive barrier building wrap and components in the manufacturer's original, unopened packaging labelled with the manufacturer's information and product name.
- B. Store the water-resistive barrier building wrap in the original, unopened packaging or in a clean, dry, protected location stored away from direct sunlight.

#### **1.6 SCHEDULING**

- A. Review requirements for sequencing of installation of water-resistive barrier building wrap with the installation of windows, doors, louvers and flashing materials to ensure a weather-tight barrier assembly.
- B. Schedule installation of exterior cladding within four months of the water-resistive barrier building wrap installation.

#### **1.7 WARRANTY**

- A. Material Warranty: Provide manufacturer's water-resistive and air barrier building wrap warranty.

## **PART 2 – PRODUCTS**

### **2.1 MANUFACTURER**

A. ISI Building Products, 401 Truck Haven Rd, East Peoria, IL, 61611 866-698-6562; [www.isibp.com](http://www.isibp.com)

### **2.2 WATER-RESISTIVE & AIR BARRIER BUILDING WRAP**

A. Wrapator® Building Wrap

B. Performance Characteristics:

1. Water Vapor Transmission  $\geq 5$  Perms &  $\leq 20$  Perms as tested by ASTM E-96, Method B
2. Trapezoidal Tear Test of 32/32 in accordance with ASTM D4533
3. Dry Indicator Method ASTM D779 = to 24 hour rating.
4. Surface Burning Characteristics: Class A when tested in accordance with ASTM E-84
5. Mechanically fastened, membrane air barrier shall meet requirements of ICC-ES AC38, "Acceptance Criteria for Water-Resistive Barriers"

### **2.3 AUXILIARY MATERIAL**

A. Specify auxiliary materials as shown below or other alternative materials approved by the water-resistive barrier & air barrier building wrap manufacturer.

1. Manufacturer approved Self-Adhered Flashing

## **PART 3 – EXECUTION**

### **3.1 EXAMINATION**

A. Examine substrates, areas and conditions under which the water-resistive & air barrier will be installed, with installer present, for compliance with manufacturer's requirements.

### **3.2 INSTALLATION**

1. Building wrap should be installed after the wall framing is completed and before the windows and doors are installed.
2. Building wrap should be installed on the outside of the insulation cavity, preferably over approved exterior sheathing board or insulation with the printed side installed so that it faces out.
3. Start at an outside corner, ensuring the roll remains vertical, unroll the material across the face of the sheathing making sure the roll remains plumb and that the bottom edges of the building wrap extend over the foundation by 2 inches (5 cm).
4. The application should start at an outside corner extending around the starting point corner by at least 6 inches (15 cm). Attach building wrap so that it is tight and flat.
5. Secure Wrapator® to the stud or other nail-base material, i.e. wood sheathing using plastic cap fasteners. Securing along stud lines will assist in maintaining fastening pattern. For sixteen-inch OC framing, install fasteners along every other stud. For twenty-four-inch OC framing, install fasteners along every stud. Fasteners should be spaced at a maximum of thirty-two inches vertically. Penetrating band board or other horizontal members may be necessary to maintain fastening pattern. Do not install

fasteners within six inches of the sills and jambs and within nine inches of the head of the window rough openings.

6. When installing around window or door openings, use a modified "I" cut from corner to corner, pulling the flaps in, folding excess material (or trimming excess material), fastening securely through all layers to a framing member. Install window and door flashing in accordance with manufacturers guidelines. Wraptor® brand Contractor Grade Sheathing Tape (or equivalent) may be used to secure building wrap to window flanges, door jambs, sill plate foundation, and all vertical/horizontal seams.

7. When used over wood-based sheathing in exterior plaster applications, 2 layers of product shall be applied over sheathing in accordance with Section 2510.6 of the IBC or Section 2506.4 of the UBC, as applicable, except for cementitious coatings or exterior insulation and finishing systems, application shall be in accordance with the evaluation report on the exterior coating.

### **3.3 FIELD QUALITY CONTROL**

A. Allow access to work areas for inspection and testing by manufacturer's designate, if required for warranty purposes. Daily inspection and testing may be required. Do not cover work until testing and inspection is accepted.

### **3.4 PROTECTING & CLEANING**

A. Protect installed building wrap from damage during installation, and the remainder of the construction period, according to the manufacturer's written instructions.

**END OF SECTION**