



Thermal & Moisture Protection Section 07 25 00: Weather Barriers

PART 1 GENERAL

1.1 Section Includes

Specifier Note: "Weather barrier assembly" as used throughout this document. A weather barrier is a weather-resistant membrane for vertical building envelope protection that will maintain air/moisture resistance while maintaining moisture-vapor permeability. The assembly consists of the following components.

- A. Weather barrier membrane (Tamlyn ProSelect™ Commercial Wrap)
- B. Seam Tape (Tamlyn XtremeSeam™ Tape)
- C. Flashing
- D. Fasteners
- E. Adhesive/Sealant

1.2 REFERENCES

- A. ASTM International
 - ASTM D5034: Test Method for Dry Tensile Strength
 - ASTM E84: Test Method for Surface Burning Characteristics of Building Materials
 - ASTM E96: Test Method for Water Vapor Transmission of Materials
 - ASTM E2178: Test Method of Air Permeance of Building Materials
- B. AATCC – American Association of Textile Chemists and Colorists
 - Test Method 127 Water Resistance: Hydrostatic Pressure Test

1.3 SUBMITTALS

- A. Product Data: Submit manufacturer current technical literature for each component.
- B. Samples: Weather barrier membrane, minimum 8-1/2 inches by 11 inches.
- C. Quality Assurance Submittals

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Utilize an installer having demonstrated experience on projects of similar size and complexity.
- B. Mock-Ups: (Specify requirements for mock-up)
 - 1. Subject to acceptance by owner, mock-up may be retained as part of finish work.
 - 2. If mock-up is not retained, remove and properly dispose of mock-up
- C. Pre-installation Meetings: (Specify requirements for meeting)

1.5 DELIVERY, STORAGE & HANDLING

- A. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- B. Storage and Protection: Store materials protected from exposure to harmful environmental conditions.

1.6 WARRANTY

- A. Manufacturer's warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official.
 - 1. Warranty Period: 10 year, beginning with date of substantial completion.



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PART 2 PRODUCTS

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

2.1 WEATHER RESISTIVE BARRIER

- A. Manufacturer: Tamlyn (R.H. Tamlyn & Sons, LP)
 - 1. Contact: 13623 Pike Road, Stafford, TX 77477; Phone (800) 334-1676; Fax (281) 499-8948; Email info@xtremetrim.com; Website www.tamlynwrap.com
- B. Proprietary Products/Systems: Weather Resistive Barrier, including the following:
 - 1. Tamlyn ProSelect™ Commercial Wrap Characteristics
 - i. Description: laminated substrate (nonwoven layer with a water-holdout film layer)
 - ii. Material: Nonwoven – Polypropylene; Film – Polyethylene
 - iii. Width: 5 ft (1.52m)
 - iv. Length: 200 ft (60.96m)
 - v. Thickness: 0.0118 in (0.3mm)
 - vi. Weight: 25 lbs/roll
 - 2. Tamlyn ProSelect™ Commercial Wrap Performance
 - i. Air Resistance: 0.0018 L/(sm²) at 75 psi, when tested in accordance with ASTM E2178
 - ii. Water Vapor Transmission: 19 perms, when tested in accordance with ASTM E96
 - iii. Water Resistance: 55 cm for 5 hours, when tested in accordance with AATCC Test Method 127
 - iv. Tensile Strength: 60 MD, 52 CD, when tested in accordance with ASTM D5034
 - v. Surface Burning: Flame Spread – 10, Smoke Developed – 115, Class A, when tested in accordance with ASTM E84

2.2 PRODUCT SUBSTITUTIONS

- A. Substitutions: No substitutions permitted.

2.3 ACCESSORIES

- A. XtremeSeam™ Tape
 - 1. XtremeSeam™ Tape Characteristics
 - i. Description: double-sided seam tape for Tamlyn ProSelect™ Commercial Wrap
 - ii. Material: blend of Butyl, E.P.D.M. and Polyisobutylene Elastomers
 - iii. Width: 2 in (50.8mm)
 - iv. Length: 50 ft (15.2m)
 - 2. Material Standard: [2 inch or wider seam tape]
 - 3. Manufacturer: [Acceptable to manufacturer of Tamlyn ProSelect™ Commercial Wrap] [Tamlyn]
- B. Flashing [XtremeFlashing™ Self-Adhered Flashing]
 - 1. XtremeFlashing™ Self-Adhered Flashing Characteristics
 - i. Descriptions: self-adhered flashing for Tamlyn ProSelect™ Commercial Wrap
 - ii. Material: block copolymer adhesive and woven polyethylene flashing laminate



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- iii. Width: 4, 6, 9 in (101.6, 152.4, 228.6 mm)
- iv. Length: 75 ft (26.8m)
2. Material Standard: [butyl-based or block copolymer adhesive must be approved by Tamlyn for use with Tamlyn ProSelect™ Commercial Wrap per installation instructions]
3. Manufacturer: [Acceptable to manufacturer of Tamlyn ProSelect™ Commercial Wrap][Tamlyn]
- C. Fasteners
 1. Cap fasteners
 2. [Acceptable to manufacturer of Tamlyn ProSelect™ Commercial Wrap][Tamlyn]
- D. Adhesives/Sealants
 1. [Acceptable to manufacturer of Tamlyn ProSelect™ Commercial Wrap][Tamlyn]

PART 3 EXECUTION

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

3.1 MANUFACTURER'S INSTRUCTIONS

- A. Comply with the instruction and recommendations of the manufacturer

3.2 EXAMINATION

- A. Site Verification of Conditions
 1. Verify that site conditions are acceptable for installation of housewrap.
 2. Do not proceed with installation of housewrap until unacceptable conditions are corrected.

3.3 INSTALLATION

- A. Basic Installation
 1. Unroll Tamlyn ProSelect™ Commercial Wrap with filaments facing to the exterior and fasten to sheathing with cap fasteners
 2. Fasteners should provide a minimum ½" penetration into the nail base and be spaced approximately 12 – 18 inches apart along the horizontal and vertical laps. Fasten every 3 sq. ft. elsewhere.
 3. Tamlyn ProSelect™ Commercial Wrap should be installed shingle lap fashion (i.e. begin installation at the base of the wall assembly). Extend housewrap a minimum 2" over sill plate.
 4. Overlap all horizontal and vertical seams at least 6 inches and corners by 12 inches.
 5. Be sure that the housewrap installation and flashing provide for positive drainage to the exterior of the assembly.
 6. Do not allow the housewrap to be exposed to sunlight in excess of 120 days. Recommended coverage within 30 days.
 7. Optionally, tape all Tamlyn ProSelect™ Commercial Wrap seams with XtremeSeam™ Tap.
- B. Window Preparation
 1. Wrap the entire building including window and door openings.
 2. At each window opening, cut and "I" shape into the housewrap. Cut the housewrap above top corners at 45° away from window opening to account for flashing width.
 3. Fold side and bottom flaps into rough opening and cut/fasten.
 4. Fold up top trapezoid shaped "flap" and secure temporarily with tap prior to installing window.



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- C. Flanged Window Installation
 - 1. Install sill flashing system
 - 2. Apply caulk/sealant at jambs and head
 - 3. Install flanged window
 - 4. Install jamb flashing
 - 5. Install head flashing
 - 6. Fold top flap back down on top of flashed header window flange and tape diagonal cuts
- D. Special Considerations
 - 1. Flash other wall penetrations (such as outlets, exhaust vents, etc.) with proper shingling technique to maintain drainage to the exterior.
 - 2. Tap all tears and holes that may have been inadvertently introduced during the construction process.
 - 3. When installing Tamlyn ProSelect™ Commercial Wrap as the primary air barrier, consider the following:
 - i. Tape all seams with XtremeSeam™ Tape
 - ii. Seal the top of the last course to the sheathing or top plate
 - iii. Tape/seal all penetration and tears
 - iv. Use cap fasteners
 - 4. To achieve 15 YEAR PRODUCT AND LABOR LIMITED WARRANTY:
 - i. XtremeSeam™ Tape, XtremeFlashing™, XtremeSealant™, and cap fasteners must be used.

3.4 PROTECTION

- A. Protect installed work from damage due to subsequent construction activity on the site.

END OF SECTION