

# TYPAR® BUILDINGWRAP™

## THREE-PART SPECIFICATIONS

### PART 1. GENERAL

#### 1.1 Summary

A. Includes but not limited to:

1. Furnish and install weather-resistive barriers on exterior side of exterior wall sheathing as described in Contract Documents.

#### 1.2 References

- A. ASTM E1677-95 "Standard Specification for an Air Retarder (AR) Material or System for Low-Rise Framed Building Walls."
- B. ASTM E96-90 "Standard Test Method for Water Transmission of Materials."
- C. AATCC-127 "Hydrostatic Head Test."
- D. ASTM D5733-9 Trapezoidal Test.
- E. Air-Ins ASTM E283 Canadian Air Barrier Materials Standard.
- F. ASTM D779 Dry Indicator Method, Water Penetration Resistance.

#### 1.3 Submittals

A. Quality Assurance:

1. Submit copies of test results showing performance characteristics equaling or exceeding those specified.

### PART 2. PRODUCTS

#### 2.1 Water-Resistant Barrier

A. Spunbonded polypropylene weather membrane with a microporous coating, nonwoven, nonperforated.

B. Performance Characteristics:

1. Gurley Hill Air Penetration Resistance [TAPPI T 460] [sec/100cc] >2500.
2. Type I Air Barrier Material when tested in accordance with ASTM E1677.
3. Type II Water-Resistive Barrier when tested in accordance with ASTM E2556.
4. Water Vapor Transmission: 9-15 perms as tested by ASTM E96-90, Method A.
5. Water Resistance Test ASTM D779.
6. Basis Weight: 3.024 oz/yd<sup>2</sup> ASTM D5261.
7. Air-Ins (Air Leakage Test) <.02L/S-M<sup>2</sup> @ 75 PA.
8. Breaking Strength (Grab Tensile): 67 MD/73 CD lbs/in, when tested in accordance with ASTM D5034.
9. Trapezoidal Test of 30/33 in accordance with ASTM D5733-9.
10. Surface Burning Characteristics: Class A, when tested in accordance with ASTM E84. Flame Spread: Pass. Smoke Spread: Pass. NFPA 285: Pass.

C. Approved Manufacturers:

1. TYPAR® Weather-Protection Membrane by Berry Global, Inc. [www.TYPAR.com](http://www.TYPAR.com).

D. Manufacturer's Warranty:

1. Limited product and limited system warranty available depending on the application, see the TYPAR® Weather Protection System Limited Warranty located at [www.TYPAR.com/downloads](http://www.TYPAR.com/downloads) for warranty details.

#### 2.2 Manufacturer's Accessory Products – Sealing Tape/Fasteners

A. Tape: TYPAR® Construction Tape.

1. Description:

- a. Face Material Composition: Polyethylene barrier.
- b. Face Color: Gray.
- c. Adhesive Composition: Acrylic.
- d. Thickness: 3.6mil.
- e. Dimensions: 1-7/8" x 165', 3" x 165'.

2. Performance Characteristics:

- a. Temperature Resistance: 0°F (-18°C) – Min. application temperature; 230°F (110°C) – Max. application temperature.
- b. Peel Adhesion PSTC-1\*.
- c. Tensile Strength PSTC-31\*.

\*Pressure-Sensitive Tape Council.

3. Accessories:

- a. Primer: Polyken spray adhesive or equal.
- b. Flashing Tape: TYPAR® All-Temperature Flashing, TYPAR® Flexible Flashing, and TYPAR® Butyl Flashing.
- c. Fastener: Fastener is dependent on substrate construction.
- d. Sealant: Must comply with ASTM C920 elastomeric polymer sealant.

- B. Flashing: TYPAR® Butyl Flashing.
  - 1. Description:
    - a. Face Material Composition: Polyethylene barrier.
    - b. Face Color: Gray.
    - c. Adhesive Composition: Butyl rubber adhesive.
    - d. Thickness: 18.5mil.
    - e. Release Liner: Kraft paper.
    - f. Dimensions: 4" x 25'; 4" x 75'; 6" x 75'; 9" x 75'; 12" x 75'.
  - 2. Performance Characteristics:
    - a. Low Temp Pliability ASTM C765 PASS.
    - b. Nail Sealability ASTM D1970 PASS.
    - c. Tensile Strength ASTM D5034-95 PASS.
    - d. Peel Adhesion ASTM D3330-04 PASS.
  - 3. Accessories:
    - a. Primer: Polyken spray adhesive or equal.
    - b. Seam Tape: TYPAR® Construction Tape.
    - c. Fastener: Fastener is dependent on substrate construction.
    - d. Sealant: Must comply with ASTM C920 elastomeric polymer sealant.
- C. Recommended Sealants Against TYPAR® Logo-Side Coating:
  - 1. Elastomeric polymer-based, butyl rubber, rubber-based, meeting ASTM C920 evaluation.
- D. Recommended Fasteners for Wood, Insulated Sheathing Board, Exterior Gypsum:
  - 1. Plastic cap nails.
  - 2. Plastic cap staples.
- E. Recommended Fasteners for Steel Frame Construction:
  - 1. Rust-resistant screws with washers.
- F. Recommended Fastening to Masonry:
  - 1. Sealant: Polyurethane-based, meeting ASTM C920 evaluation.
  - 2. Mechanical: Masonry fastener with washer.

**PART 3. EXECUTION**

**3.1 Installation**

- A. TYPAR BuildingWrap.
 

Install in accordance with manufacturer’s instruction over exterior sheathing or open studs. Seal joints and penetrations through weather-resistant barrier with specified tape and fasteners prior to installation of finish material. Air infiltration barrier shall be airtight and free from holes, tears, and punctures. All window and door penetrations are to be flashed and sealed per ASTM 2112, AAMA guidelines and manufacturer instructions. Cover with exterior cladding within six months of installation.
- B. TYPAR Construction Tape.
  - 1. Follow the TYPAR flashing installation procedures.
- C. TYPAR Butyl Flashing.
  - 2. Follow the TYPAR flashing installation procedures.

**3.2 Examination**

- A. TYPAR BuildingWrap.
  - 1. Verify substrate and surface conditions are in accordance with the flashing manufacturer’s recommendation.
- B. TYPAR Butyl Flashing.
  - 1. Verify substrate and surface conditions are in accordance with the flashing manufacturer’s recommendation.
- C. TYPAR Butyl Flashing.
  - 1. Verify substrate and surface conditions are in accordance with the flashing manufacturer’s recommendation.

NOTE: Flashing manufacturer recommends weather barrier be installed prior to the installation of the windows.

**3.3. Protection**

- A. TYPAR Butyl Flashing.
  - 1. Protect installed self-adhesive and flashing tapes from damage during construction.
- B. TYPAR Butyl Flashing.
  - 1. Protect installed flashing from damage during construction.

