

# TYPAR® DRAINABLEWRAP™

## COMMERCIAL

## THREE-PART SPECIFICATIONS

### PART 1. GENERAL

#### 1.1 Summary

1. The section specifies TYPAR® DrainableWrap™ Commercial applied as a drainable water-resistive barrier and air barrier assembly on exterior walls
2. Install drainable water-resistive barrier on exterior side of wall sheathing as outlined in Installation Guide.

#### 1.2 References

- A. ASTM E2773-18 "Standard Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies."
- B. ASTM E96-95 "Standard Test Method for Water Vapor Transmission of Materials."
- C. AATCC-127 "Hydrostatic Head Test."
- D. ASTM D5733-9 Trapezoidal Test
- E. ASTM D5034, "Standard Test Method for Breaking Strength and Elongation of Textile Fabrics"
- F. ASTM D779 Dry Indicator Method, Water Penetration Resistance
- G. ASTM C765 "Standard Test Method for Low-Temperature Flexibility of Preformed Tape Sealants"
- H. ASTM E1677, "Standard Specification for an Air Retarder (AR) Material or System for Low-Rise Framed Building Walls"
- I. ASTM E2178, "Standard Test Method for Air Permeance of Building Materials"
- J. NFPA 285, "Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components"
- K. ASTM E84, "Standard Test Method for Surface Burning Characteristics of Building Materials"

#### 1.3 Submittals

- A. Product Data. Submit manufacturer's product data and installation instructions.
- B. Samples. Submit 12" (300mm) square sample for approval.

#### 1.4 Quality Assurance

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

### PART 2. PRODUCTS

#### 2.1 Manufacturer

- A. Berry Global, Inc., 70 Old Hickory Blvd, Old Hickory, TN 37138; +1 615-847-7000; [www.TYPAR.com](http://www.TYPAR.com)

#### 2.1 Water-Resistant Barrier

- A. Spunbonded polypropylene weather membrane with a microporous coating and layer of integrated polypropylene fibers, nonwoven, nonperforated
- B. Performance Characteristics
  1. Drainage Efficiency: 96.7%, when tested in accordance with ASTM E2773
  2. Ultraviolet Exposure: Up to 12 months prior to exterior cladding coverage
  3. Accelerated Aging Cycling: No signs of failure at 21 days per AC38
  4. Air Penetration Resistance (Gurley Hill Porosity) [TAPPI T 460] [sec/100cc] >4800
  5. Type I Air Barrier Material when tested in accordance with ASTM E1677
  6. Type II Water-Resistive Barrier when tested in accordance with ASTM E2556
  5. Water Vapor Transmission: 9-15 perms as tested by ASTM E96-90, Method A
  6. Water Resistance Test: Exceeds one hour per ASTM D779
  7. Basis Weight: 3.7 oz/yd<sup>2</sup> ASTM D5261
  8. Air-Ins (Air Leakage Test) <.02L/S·M<sup>2</sup> @ 75 PA
  9. Breaking Strength (Grab Tensile): 93 MD/95 CD lbs/in, when tested in accordance with ASTM D5034
  10. Trapezoidal Test of 60/67 LBs when tested in accordance with ASTM D5733-9
  11. Surface Burning Characteristics: Class A, when tested in accordance with ASTM E84  
Flame Spread: Pass. Smoke Spread: Pass  
NFPA 285: Pass
- C. 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. Tapes(s):

1. TYPAR® Construction Tape

i. 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'

ii. 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.\*

iii. Accessories:

- a. Primer: Use 3M™ Super 77,™ 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

2. TYPAR® Double-Sided Seaming Tape

i. Description:

- a. Face Material Composition: Paper Liner
- b. Face Color: White paper liner, clear carrier film
- c. Adhesive Composition: Acrylic
- d. Thickness: 10.3 mils
- e. Dimensions: 1.5" x 180'

ii. Performance Characteristics:

- a. Temperature Resistance: 15°F (-9°C) – Min. application temperature; 200°F (92°C) – Max. application temperature.
  - b. Peel Adhesion PSTC-1.\*
  - c. Tensile Strength PSTC-31.\*
- \*Pressure-Sensitive Tape Council.

iii. 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:

1. TYPAR All-Temperature Flashing.

i. Description:

- a. Face Material Composition: Polyethylene Barrier
- b. Face Color: Gray
- c. Adhesive Composition: Block Copolymer
- d. Thickness: 16mil
- e. Release Liner: Polyfilm
- f. Dimensions: 4" x 75'; 6" x 75'; 9" x 75'; 12" x 75.'

ii. 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.

iii. Accessories:

- a. Primer: Use 3M™ Super 77,™ 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

2. TYPAR Butyl Flashing

i. 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 75'; 6" x 75'; 9" x 75'; 12" x 75.'

ii. 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.



- iii. Accessories:
  - a. Primer: Use 3M™ Super 77,™ 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® DrainableWrap™ Commercial
  - Install in accordance with manufacturer's instruction over exterior sheathing or open studs. Seal joints and penetrations through water-resistive 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 12 months of installation.
- B. TYPAR Double-Sided Seaming Tape
  - 1. Follow the TYPAR flashing installation procedures.
- C. TYPAR All-Temperature Flashing
  - 1. Follow the TYPAR flashing installation procedures.
- D. TYPAR Butyl Flashing
  - 1. Follow the TYPAR flashing installation procedures.

### 3.2. Examination

- A. TYPAR® DrainableWrap™ Commercial
  - 1. Verify substrate and surface conditions are in accordance with the flashing manufacturer's recommendation.
- B. TYPAR Double-Sided Seaming Tape
  - 1. Verify substrate and surface conditions are in accordance with the flashing manufacturer's recommendation.
- C. TYPAR Butyl Flashing or TYPAR All-Temperature 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.

### 3.2. Protection

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