

TYPAR® METROWRAP™

THREE-PART SPECIFICATIONS

PART 1. GENERAL

1.1 Summary

A. This Section specifies TYPAR MetroWrap applied as a water-resistive barrier and air barrier assembly on exterior walls.

1.2 Submittals

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

1.3 Quality Assurance

A. Manufacturer:
1. Obtain primary materials from a single manufacturer regularly engaged in manufacturing building wraps. Obtain secondary materials from a source acceptable to the primary materials manufacturer.
B. Installer:
1. Minimum two years experience with installation of similar building wraps.

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.

2.2 Water-Resistant Barrier

A. Material shall comply with the following:
1. Thickness: 0.121" average.
2. Breaking Strength Test: 94 pounds mean value per ASTM D5034.
3. Water Vapor Transmission: 9-15 perms (grains per hr.in.Hg.sqft) per ASTM E96, desiccant method.
4. Pliability: No signs of cracking per AC38, Sec. 3.3.4.
5. Ultraviolet Exposure: Not less than 10 months prior to exterior cladding coverage.
6. Accelerated Aging Cycling: No signs of failure at 21 days per AC38.
7. Water Resistance Test: Exceeds one hour per ASTM D779.
8. Elongation: 1.9" mean value per ASTM D5034, 4" wide sample.
9. Air Penetration Resistance (Gurley Hill Porosity) [TAPPI T 460] [sec/100cc] >4800.
10. Surface Burning Characteristics: Class A, when tested in accordance with ASTM E84.
Flame Spread: Pass. Smoke Spread: Pass. NFPA 285: Pass.

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 MetroWrap.

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® Butyl Flashing.
 - 1. Follow the TYPAR® Flashing installation procedures.
- C. TYPAR Construction Tape.
 - 1. Follow the TYPAR Construction Tape installation procedures.

3.2 Examination

- A. TYPAR MetroWrap.
 - 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 Construction Tape.
 - 1. Verify substrate and surface conditions are in accordance with the flashing manufacturer’s recommendation.

3.3. Protection

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

