

SPECIFICATIONS:

PART 1 - GENERAL

1.1 Summary

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

1.2 Submittals

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

1.3 Quality Assurance

- A. Manufacturer: 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: Minimum 2 years experience with installation of similar building wraps.

1.4 Delivery, Storage and Handling

- A. Deliver materials and products in unopened factory labeled packages. Store and handle in strict compliance with manufacturer's instructions and recommendations. Protect from damage.

PART 2 - PRODUCTS

2.1 Materials

A. Building Wrap: TYPAR MetroWrap by Fiberweb, 70 Old Hickory Boulevard, Old Hickory, TN 37138, www.typar.com. Material shall comply with the following:

- 1. Thickness: 0.121 inches average.
- 2. Breaking Strength Test: 94 pounds mean value per ASTM D 5034.
- 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 inches mean value per ASTM D 5034, 4-inch wide sample.

B. Manufacturer's Accessory Products:

- 1. Tape: TYPAR Construction Tape.
- 2. Sealant: Approved Sealant.
- 3. Flashing: TYPAR Flashing Flex, TYPAR Peel & Stick Flashing and Flashing RA.

C. Manufacturer's Warranty:

- 1. Lifetime limited product warranty (for single-family residential applications) plus an incredible 10-year warranty on labor and materials (restrictions apply, see warranty for details).

PART 3 - EXECUTION

3.1 Examination

A. Prior to start of installation, inspect existing conditions to ensure surfaces are suitable for installation of MetroWrap, including removal of sharp protrusions and that substrate is dry.

3.2 Installation of MetroWrap

- A. Installation: Comply with manufacturer's installation instructions including but not limited to the requirements specified in this section. Sequence construction such that MetroWrap is not exposed for more than 12 months before covering material is applied.
- B. Overlaps: Install shingle style to shed water, with minimum 2 inch (50 mm) overlap horizontally, 6 inch (300 mm) overlap vertically, and 12 inches (600 mm) overlap at corners, at all locations where this is possible.
- C. Fasteners at Wood Studs: Use manufacturer's recommended fasteners with up to 2 inch plastic heads. Use 2 inch (50mm) long plastic headed nails or plastic headed screws when 1/2 inch (12 mm) thick OSB sheathing is used.
- D. Fasteners at Metal Studs: Use manufacturer's recommended fasteners with up to 2 inch (50 mm) plastic disk around shank of No. 10 stainless steel self-taping screws. Use 2 inch (50 mm) long screws when 1/2 inch (12 mm) thick gypsum board is used.
- E. Fastening at Concrete Block and Poured Concrete: Adhesive recommended by manufacturer.
- F. Fastener Pattern: Attach one fastener or more every 24 inches (600 mm) in horizontal and vertical direction.
- G. Edge Seal Where Material is Sealed to Itself: TYPAR Construction Tape.
- H. Edge Seal Where Material is Sealed to Adjacent Material: Install approved sealant on the substrate 1 inch (25 mm) to 2 inches (50 mm) back from the edge of the MetroWrap. Press MetroWrap into the sealant to seal to create air and water seal. If required by location of termination, provide furring strip to hold the MetroWrap in place.
- I. Edge Seal at Penetrations: Install approved sealant on the substrate 1 inch (25 mm) back from the edge of the cut. Press MetroWrap into the sealant to create air and water seal. Install TYPAR Flashing Flex, TYPAR Peel & Stick Flashing or Flashing RA on the exterior of the MetroWrap to join the material to the penetration.
- J. Final Inspection of MetroWrap: When each section is complete, the installer shall visually inspect the installation and verify that all rows of material have overlapped the row below it, that all materials and components have been installed in a shingle fashion, that the fasteners are the proper ones, that the nailing pattern is correct, that all penetrations and terminations have been done correctly and that doors and windows have been properly flashed and integrated into the MetroWrap material. The installer shall repair any cuts or tears with TYPAR Construction Tape.