**BT25XL 3-Part Specifications**

[PROJECT NUMBER] [PROJECT NAME]

[DATE] [PROJECT LOCATION]

Protecto Wrap BT25XL is a tough-faced superior self-adhering, air/vapor barrier and waterproofing membrane for vertical and horizontal above grade substrates. BT25XL seals window perimeters to building substrates to create an impenetrable barrier. This 25-mil polyethylene-backed aggressive adhesive membrane can be applied to vinyl, plywood, OSB, concrete, metal, aluminum, polyethylene, building wrap products, block and masonry surfaces to form an air/vapor moisture barrier system. BT25LX can be installed and left exposed for 120 days without UV degradation.

SECTION 07 26 13

ABOVE-GRADE VAPOR RETARDERS

Protecto Wrap BT25XL Window & Door Sealing Tape

PART 1 GENERAL

* 1. SECTION INCLUDES
		1. This Section specifies a self-adhering building tape to seal for air and vapor barrier and primers for adherence to materials that are difficult to adhere to.
			1. Protecto Wrap BT25XL Window & Door Sealing Tape.
			2. Protecto Wrap BT - Primer.
			3. Protecto-Tak Spray Adhesive.
			4. Protecto Sealant 25XL.
		2. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + - 1. Section 06 11 00 - Wood Framing and Sheathing.
			2. Section 08 11 00 - Metal Doors and Frames
			3. Section 05 40 00 - Cold-Formed Metal Framing.
			4. Section 06 10 00 - Rough Carpentry.
			5. Section 06 16 36 - Wood Panel Product Sheathing.
			6. Section 07 22 16 - Roof Board Insulation.
			7. Section 08 50 00 - Windows.
			8. Section 08 11 00 - Entrances and Storefronts.
		1. REFERENCES
			1. International Code Council Evaluation Service (ICC / ES):
				1. AC 148 - Acceptance Criteria for Flexible Flashing Materials.
			2. American Architectural Manufacturers Association (AAMA):
				1. AAMA 711-13 & 14 - Voluntary Specification for Self Adhering Flashing Used for Installation of Exterior Wall Fenestration Products.
			3. ASTM International (ASTM):
				1. ASTM D1970 - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection.
				2. ASTM D 412 – Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension
				3. ASTM E 96 - Standard Test Methods for Water Vapor Transmission of Materials.
				4. ASTM E 331 – Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference.
				5. ASTM E 2112 – Standard Practice for Installation of Exterior Windows, Doors, and Skylights.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Manufacturer's data sheets on each product to be used, including:
			1. Preparation instructions and recommendations.
			2. Storage and handling requirements and recommendations.
			3. Installation methods.
		3. Samples: Submit manufacturer's samples of air/vapor barrier and waterproofing membrane.
		4. Verification Samples: For each product specified, two samples, minimum size 6” x 6” (152 mm x 152 mm) square, representing actual product, color, and patterns.
	2. QUALITY ASSURANCE
		1. Regulatory Requirements: Comply with requirements of local authorities having jurisdiction and applicable codes at the location of the project.
		2. Manufacturer: Minimum 10 years experience producing self-adhering flashing tapes.
	3. DELIVERY, STORAGE, AND HANDLING
		1. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
		2. Storage:
			1. Store products in a dry space at temperatures between 50-90 degrees F (10 and 32 degrees C).
			2. Do not store in direct sunlight.
			3. Optimum adhesion to substrates when used within one year from the date of manufacture.
		3. Handling: Do not remove from box until ready to use.
	4. Warranty
		1. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
		2. Manufacturer’s Warranty: Submit, for Owner’s acceptance, manufacturer’s standard warranty document.
			1. Warranty Period: 10-Year Product Warranty commencing on date of substantial completion.

PART 2 PRODUCTS

* 1. MANUFACTURER
		1. Acceptable Manufacturer: Protecto Wrap Company, which is located at: 1955 South Cherokee Street, Denver, Colorado 80223. Tel: (800) 759-9727, Fax: (303) 777-3001, Email: info@protectowrap.com, Website: [www.protectowrap.com.](http://www.protectowrap.com/)
		2. \*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.
		3. Substitutions: Not permitted.
		4. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
	2. MATERIALS
		1. Protecto Wrap BT25XL Building Tape
			1. Material: 25mil (0.64 mm) polyethylene-backed membrane with an aggressive rubberized asphalt/butyl hybrid adhesive.
			2. Roll size: 4” x 75’, 6” x 75’, 9” x 75’, 12” x 75’, 36” x 75’. (Other sizes available upon request). BT25XL 9” (229 mm) and wider come standard with a 4” (102 mm) custom serration integrated into the release liner.

3. Weight: 82 lb./ 400 sq. ft. (37.2kg/ 44.4 sq. m).

1. Color: Light Gray.
2. Permeance (Perm), also known as Moisture vapor transmission rate: 0.01 grains/hr- sq. ft.-in Hg (1.61 ng/(Pa-s-sq. m)), when tested in accordance with ASTM E 96.
3. Tensile Strength: 975 psi (6718 kPa), when tested in accordance with ASTM D 412.
4. Elongation: Over 500% (rubberized adhesive only) when tested in accordance with ASTM D412).
5. Maximum Exposure time: 120 (days).
6. Operating Temperature Range: -45 F to 240 F (7 C - 116 C).
7. Application(s):
	1. Use on window and door perimeters to the building substrate.
	2. Beneath metal cap flashings or full building coverage as an air/vapor barrier.
	3. Sealing joints on gypsum sheathing in cavity wall construction.
	4. Other areas where a water or air seal is required.
	5. ACCESSORlES
		1. General: Ensure accessories are from Protecto Wrap.
		2. BT-Primer:
			1. Description: Liquid High Tack Primer for use with BT25XL.
			2. Weight: 9 lb./ 1 gal (3.8L) / 46 lbs. (5 gal).
			3. Application(s): OSB, Metal, Wood, Dry Concrete and Dry Masonry.
		3. Protecto-Tak Spray Adhesive:
			1. Description: High Tack Primer spray for use with BT25XL. 2. Weight: 1.41 lb. (0.64 kg) / 16.5 oz. can.

3. Application(s): OSB, Metal, Wood, Dry Concrete and Dry Masonry.

* + 1. Protecto Wrap Sealant 25XL:
			1. Description: is a high performance, low modulus, one component, moisture curing, polyurethane sealant used for back bedding nail flanges for window and door installation and sealing door thresholds.
			2. Packaging: 10.1 fl.oz. tube / 300 ml
			3. Application(s): OSB, Metal, Wood, Dry Concrete and Dry Masonry.

PART 3 EXECUTION

* 1. EXAMINATION
		1. Examine surfaces and areas to receive air/vapor barrier and waterproofing membrane. Notify Architect in writing of defects of work and other unsatisfactory site conditions that would cause defective installation of air/vapor barriers and waterproofing membranes. Do not begin installation until unacceptable conditions have been corrected.
		2. Verify site dimensions.
		3. Commencement of work will imply acceptance of substrate.
	2. INSTALLATION
		1. Comply with manufacturer’s product data including product technical bulletins, product catalog installation instructions and product carton instructions for installation.
		2. BT25XL
			1. Cut a piece of BT25XL in a length that can be easily handled.
			2. Install in temperatures above 50 degrees F (10 C). In temperatures below 45 degrees F (7 C), BT Primer or Protecto-Tak Spray Adhesive must be used.
			3. Begin by removing approximately 12” (305mm) of the release paper and center the tape over the area to be sealed.
			4. Firmly roll the BT25XL against the surface and continue pulling off the release paper while rolling the tape into place. (BT25XL must be rolled to ensure 100% surface contact between the BT25XL adhesive and the substrate. This will minimize the trapping of air beneath the tape).
			5. Do not stretch BT25XL.
			6. Lap building wrap material 4” (102 mm) over BT25XL and seal the building wrap to BT25XL.
			7. For weathered surfaces such as masonry, concrete, OSB surfaces, use with BT- Primer or Protecto-Tak Spray Adhesive. Protecto Wrap’s Stucco Tape or Primer Free Stucco / EIFS Tape are recommended if stucco is to be applied directly to the air/vapor barrier.
		3. BT Primer
			1. Apply primer to all surfaces by roller or brush. The primed surface must be free of runs, puddles or excessive primer, as this can cause blistering.
			2. Brush or roll out all primer puddles or drips immediately.
			3. Prime only as much area as can be covered in half a day’s work. Re-prime areas not covered in half a day’s work with a light coat of BT-Primer.
			4. Primer will become tack free in approximately 10-20 minutes
		4. Protecto-Tak Application
			1. Shake can before using.
			2. Turn spray tip so arrow points to dot on rim.
			3. Hold can 6”- 8” (152-203 mm) from surface to be sprayed and apply.
			4. Clean over sprayed areas with a 3:1 isopropyl alcohol to water ratio.
		5. Precaution
			1. When used as an air/vapor barrier, the dew point must be engineered to the exterior of the building.
			2. Protecto Wrap solvent-based primers/mastic are flammable.
			3. Avoid exposure to open flames, sparks, etc.
			4. Use only in areas with adequate ventilation.
			5. Refer to SDS for additional information and warnings.
		6. Install In accordance with ASTM E2122.
	3. PROTECTION
		1. Protect air/vapor barrier and waterproofing membrane from damage until covered by finished siding / trim.
		2. Do not expose to direct sunlight for more than 120 days.

END OF SECTION