**Jiffy Seal® Ice & Water Guard HT 3-Part Specifications**

[PROJECT NUMBER] [PROJECT NAME]

[DATE] [PROJECT LOCATION]

Protecto Wrap Jiffy Seal® Ice & Water Guard HT roofing underlayment has a proprietary slip resistant film on one side with high temperature rubberized asphalt adhesive. It protects roofs from leaks caused by ice dams and windblown rain.

SECTION 07 30 11

Roofing Underlayment

Protecto Wrap Jiffy Seal® Ice & Water Guard HT

PART 1 GENERAL

* 1. SUMMARY
		1. This Section specifies a cold-applied, self-adhering membrane to protect roofs from leaks caused by ice dams and wind blown rain.
			1. High temperature application, 250F resistance, Protecto Wrap Jiffy Seal® Ice & Water Guard HT.
		2. RELATED SECTIONS

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

* + - 1. Section 06 10 00 - Rough Carpentry.
			2. Section 07 31 13 - Asphalt Shingles.
			3. Section 07 31 16 - Metal Shingles.
			4. Section 07 31 19 - Mineral-Fiber Cement Shingles.
			5. Section 07 31 26 - Slate Shingles.
			6. Section 07 31 29 - Wood shingles and Shakes.
			7. Section 07 32 00 - Roof Tiles.
			8. Section 07 61 00 - Sheet Metal Roofing.
		1. REFERENCES
			1. ASTM D 146 – Standard Test Methods for Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics for Roofing and Waterproofing.
			2. ASTM 412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension.
			3. ASTM D882 – Standard Test Method for Tensile Properties of Thin Plastic Sheeting.
	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 roofing underlayment.
	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 40-90 degrees F (5 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:
			1. Do not remove from box until ready to use.
			2. Do not double stack pallets.
			3. Do not store rolls on end.
	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. Self-Adhering Sheet Membrane Roof Underlayment: Provide Protecto Wrap Jiffy Seal® Ice & Water Guard HT with the following characteristics.
			1. Composition: Jiffy Seal® Ice and Water Guard HT is a proprietary slip resistant, tri- layer, woven polyolefin fabric coated on one side with a layer of high temperature aggressive rubberized asphalt adhesive.
			2. Thickness: 40mil (1.02 mm)

3. Roll size 36”x66’ (198 sq.ft/roll) & 36”x75’ (225 sq.ft/roll). 4. Weight: 82 lb./ 400 sq. ft. (37.2kg/ 44.4 sq. m).

1. Puncture Resistance: >250 psi (1723 kpa) when tested in accordance with ASTM E154.
2. Color: Green
3. Low Temp Flex: No cracks or delamination when tested in accordance to ASTM D1970.
4. Adhesion to Plywood: 4.5 lb. / in width (unprimed) when tested in accordance to ASTM D903.
5. Permeance (Perm), also known as Moisture vapor transmission rate: <0.05 Perms when tested in accordance with ASTM E 96.
6. Tensile Strength: >1600 psi (11,031 kPa), when tested in accordance with ASTM D 412.
7. Elongation: Over 500%, when tested in accordance with ASTM D412.
8. Maximum UV Exposure time: 6 months.
9. Usable Temperature Range: Up to 250 F (up to 121 C)
10. Application(s):
	1. Use on new or retrofit roofs.
	2. Use on most roof coverings.
	3. Use on slopes of 2:12 and higher, hip, ridge, valleys, rake edges, confined rake edges, around skylights, and chimneys.
		1. Limitation (s):
			1. Not recommended for roofs that exceed 250 degrees F (121 C) operating temperature.
			2. Not recommended for use on roof slopes less than 2:12 (without approval)
			3. Not recommended for use over granulated surfaces or existing roof coverings
	4. ACCESSORlES
		1. General: Primer can be used to enhance bond when applying underlayment to concrete, metal or other hard to bond to surfaces.
		2. Select either of the following Protecto Wrap Primers as may be needed for the application:
			1. Protecto Wrap #100 VOC Primer
			2. Protecto Wrap Water Based Universal Primer

PART 3 EXECUTION

* 1. EXAMINATION
		1. Examine surfaces and areas to receive Ice & Water Guard HT. Notify Architect in writing of defects of work and other unsatisfactory site conditions that would cause defective installation of Ice and Water Guard HT. Do not begin installation until unacceptable conditions have been corrected.
		2. Verify site dimensions.
		3. Commencement of work will imply acceptance of substrate.
		4. Roof deck surface shall be clean, dry and free of any foreign materials. The roof deck surface shall be free of gaps, sharp edges and protrusions. Do not walk on surface when wet or covered with frost, as there is an increase risk of injury.
	2. INSTALLATION
		1. Apply only in fair weather conditions when air, roof deck and membrane temperatures are at 40 degrees F (5 degrees C) or higher.
		2. Install membrane such that all laps shed water in both vertical and horizontal installations.
		3. Valleys require a minimum 18” wide roll of JS Ice & Water Guard HT centered down the full length of the valley.
		4. Install membrane at lowest point of roof slope and work up the slope.
		5. Position the roll into the desired location, roll out the membrane and cut to length as needed.
		6. Align the roll with edge of eave or overlap of preceding roll, pull membrane tight, start by removing a portion of the release liner and adhere to roof deck.
			1. Reposition as needed prior to removing the remaining release liner.
		7. Lift the opposing end of the membrane and remove or strip the release liner, pulling it to one side, keep membrane aligned and tight, adhere membrane to the roof deck while another person brooms the sheet flat.
		8. Edge laps are 3” minimum and end laps are 6” minimum.
		9. All laps should be firmly pressed or rolled to ensure a positive seal.
		10. See additional methods and details at [www.protectowrap.com](http://www.protectowrap.com/) or call (800)-759-9727.
		11. Cleanup
			1. Dispose of waste in accordance to local requirements.
			2. Control worksite so that boxes and release liner to not present a hazard.
			3. Packaging materials and release liner can be recycled.
	3. PROTECTION
		1. Protect Ice & Water Guard HT from damage until covered by roofing.
		2. Do not expose to direct contact with solvent based products, polysulfides, plasticized PVC roofing materials or high concentrations of resins (pitch).
		3. Jiffy Seal® Ice & Water Guard HT incorporates a slip resistant surface; however, Protecto Wrap Company recommends the use of appropriate fall protection when installing roof underlayments.
		4. Jiffy Seal® Ice & Water Guard HT is a moisture, air/vapor barrier; spaces under the area covered must be properly vented.

END OF SECTION