



NEMO EVALUATIONS REPORT

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Kobawala Poly-Pack Inc
FL47619

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INSPECT

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NEMO EVALUATION REPORT (NER)



Kobawala Poly-Pack Inc
800 W. 5th Ave, Suite 212
Naperville, IL 60563
(312) 664-3810

SUBJECT: Bear Wrap Ice and Water Granulated Underlayment

SCOPE: This NEMO Evaluation Report (henceforth 'NER') is issued under F.A.C. [Rule 61G20-3](#) and the applicable rules and regulations governing Product Approval of construction materials in the State of Florida and ISO/IEC 17065 via [NEMO|cert.](#) NEMO Evaluations has evaluated the product described herein for compliance with the [Code sections noted herein.](#)

CODE: 2021 International Building Code
2021 International Residential Code
2023 Florida Building Code, 8th Edition
2023 Florida Building Code, Residential, 8th Edition

JURISDICTION: Non-HVHZ and HVHZ

CATEGORY: **FBC:** Roofing **NEMO:** Steep Slope

SUB-CATEGORY: **FBC:** Underlayment

CSI DIVISION: 07 00 00 Thermal and Moisture Protection
07 30 05 Roofing Felt and Underlayment

METHOD: Method 1, Option C – Codified Material, Evaluation by Evaluation Entity

COMPLIANCE STATEMENT: **Bear Wrap Ice and Water Granulated**, as produced by **Kobawala Poly-Pack Inc**, have demonstrated compliance with the [Code sections noted herein](#) through testing in accordance with the referenced Standards, rational analysis and an ongoing quality assurance program. Compliance is subject to the [Installation Requirements](#) and [Limitations of Use](#) set forth herein.

QUALITY ASSURANCE: Evidence of current quality assurance shall be listing and labeling in accordance with the requirements of [NEMO|cert.](#)

CONTINUED COMPLIANCE: This NER is valid until such time the named product(s) change, the referenced Quality Assurance changes, or the evaluated Code provisions change. NEMO Evaluations require, at minimum, a complete review of this NER with each 3-year Code Cycle.

BUILDING PERMIT REQUIREMENTS: As required by the Building Official or Authority Having Jurisdiction to evaluate the installation of this product.

ADVERTISEMENT: "NEMO Evaluated" may be displayed in advertising literature. If any portion of the NER is displayed, it shall be displayed in its entirety.

CERTIFICATION OF INDEPENDENCE:

- ✓ NEMO CERT, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
- ✓ NEMO CERT, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
- ✓ This is a building code evaluation. NEMO CERT, LLC is not, in any way, the Designer of Record for any project on which this NER, or previous versions thereof, is/was used for permitting or design guidance.





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1. CODES, PROPERTIES AND STANDARDS:

CODE	SECTION	PROPERTY	STANDARD
2021 International Building Code (IBC)	1507.1.1, 1507.2.8.2, 1507.3.9, 1507.5.7, 1507.8.8, 1507.9.9	Material standard	ASTM D1970
	1505.1	Fire Classification	ASTM E108
2021 International Residential Code (IRC)	R905.1.1, R905.2.8.2	Material standard	ASTM D1970
	R902.1	Fire Classification	ASTM E108
2023 Florida Building Code, 8 th Edition	1507.1.1, 1507.2.9.2, 1507.2.9.3, 1518.2, TAS 110	Material standard	ASTM D1970
	1505.1	Fire Classification	ASTM E108
2023 Florida Building Code, Residential, 8 th Edition	R905.1.1, R905.2.8.2, R905.2.8.5	Material standard	ASTM D1970
	R902.1	Fire Classification	ASTM E108

2. PRODUCTS:

TABLE 1: EVALUATED UNDERLAYMENTS (NEMO Certified. Consult Directory of Certified Products for production location(s))		
PRODUCT	MATERIAL STANDARD	DESCRIPTION
Bear Wrap Ice and Water Granulated	ASTM D1970	Self-adhering, fiberglass reinforced, granule-surfaced, SBS modified bitumen roof underlayment.

3. INSTALLATION:

- 3.1 **Bear Wrap Ice and Water Granulated** shall be installed in accordance with **Kobawala Poly-Pack Inc** published installation instructions, subject to the [Limitations of Use](#) noted herein. In case of conflict between published installation instructions and this NER, this report governs.
 - 3.1.1 The report holder’s installation instructions shall be made available at the jobsite at all times during installation.
 - 3.2 Substrates shall be in accordance with codified requirements to the satisfaction of the Authority Having Jurisdiction. Re-fasten any loose decking panels, and check for protruding nail heads. Sweep the substrate thoroughly to remove any dust and debris prior to application, and prime the substrate (if applicable).

3.3 IBC and IRC:

- 3.3.1 **Bear Wrap Ice and Water Granulated** shall be installed in compliance with the applicable code, this NER and the report holder’s published installation instructions.

3.3.2 Ice Barrier:

When used as an ice barrier, **Bear Wrap Ice and Water Granulated** shall be installed in sufficient courses to extend upslope a minimum of 24-inches beyond the exterior wall plane (Reference: IBC 1507.1.2 or R905.1.2). Subsequently installed roof underlayments shall overlap the ice barrier.

3.3.3 Roof Underlayment:

IBC: When used as a roof underlayment, **Bear Wrap Ice and Water Granulated** may be installed as an alternate to the codified ASTM D226 Type I or II underlayments prescribed in IBC 1507.1.1, but the product is self-adhering, and do not require mechanical attachment.

IRC: When used as a roof underlayment, **Bear Wrap Ice and Water Granulated** may be installed in accordance with IRC R905.1.1 Exception 1.

When **Bear Wrap Ice and Water Granulated** is installed atop a base sheet of ASTM D226 or ASTM D4869 underlayment, the base sheet shall be attached in accordance with IBC Table 1507.1.1(3) or IRC Table R905.1.1(3).

Refer to [Table 2A](#) herein for allowable roof covers and [Table 3](#) herein for allowable substrates.



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3.3.4 **Joint-Strips:**

Min. 4-in. wide strips of **Bear Wrap Ice and Water Granulated** may be installed in accordance with IBC 1507.1.1(1) or IRC R905.1.1(2).

3.3.5 **Flashing:**

Bear Wrap Ice and Water Granulated may be used as flashing material where use of an ASTM D1970 compliant material is prescribed in IBC Chapter 15 or IRC Chapter 9. Flashing shall be installed in a water-shedding condition. When installed in concert with metal drip edge, **Bear Wrap Ice and Water Granulated** shall be installed atop eave metal and beneath rake metal.

3.4 **FBC (non-HVHZ) and FBC Residential:**

3.4.1 **Prescriptive Underlayment Systems for use in NON-TILE applications:**

3.4.1.1 **CODE REFERENCE: 1507.1.1.1 or R905.1.1.1, Option 1:**

APPLICATION: Underlayment adhered to deck

DECK DESCRIPTION: Code-minimum wood or structural concrete deck to the satisfaction of the Authority Having Jurisdiction (refer to [Table 3](#) herein for specific underlayment/substrate combinations)

UNDERLAYMENT: **Bear Wrap Ice and Water Granulated**, self-adhered in accordance with FBC Section 1507.1.1.1(1) or R905.1.1.1(1) and back-nailed in accordance with the manufacturer's requirements.

SURFACING: FBC Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles, subject to the allowable roof covers in [Table 2B](#) herein.

3.4.1.2 **CODE REFERENCE: 1507.1.1.1 or R905.1.1.1, Option 2:**

APPLICATION: Self-adhering strips to deck-joints followed by underlayment mechanically attached to deck

DECK DESCRIPTION: Code-minimum wood deck to the satisfaction of the Authority Having Jurisdiction

SECONDARY WATER BARRIER: Min. 3 3/4-inch wide strips of **Bear Wrap Ice and Water Granulated** self-adhered over joints of the roof deck prior to installation of subsequent layer(s) in accordance with FBC Section 1507.1.1.1(2) or R905.1.1.1(2). Do not overlap end-joints or T-joints. All end-joints and T-joints shall be butted firmly side by side, flush with each other but not overlapped.

UNDERLAYMENT: FBC Approved, ASTM D226 Type II, ASTM D4869 Type III or IV, ASTM D6757 or ASTM D8257 underlayment in accordance with FBC Table 1507.1.1.1 or Table R905.1.1.1, with a minimum 4-inch side lap and 6-inch end lap, mechanically fastened to deck in accordance with FBC Table 1507.1.1.1 or Table R905.1.1.1

SURFACING: FBC Approved prepared roof cover, subject to the limitations in FBC Table [1507.1.1.1](#) or Table [R905.1.1.1](#).

3.4.1.3 **CODE REFERENCE: 1507.1.1.1 or R905.1.1.1, Option 1 combined with Option 2 or 3:**

APPLICATION: Optional self-adhering strips to deck-joints followed by base sheet mechanically fastened to deck followed by underlayment adhered to base sheet

DECK DESCRIPTION: Code-minimum wood deck to the satisfaction of the Authority Having Jurisdiction

SECONDARY WATER BARRIER: (Optional) Min. 3 3/4-inch wide strips of **Bear Wrap Ice and Water Granulated** self-adhered over joints of the roof deck prior to installation of subsequent layer(s) in accordance with FBC Section 1507.1.1.1(2) or R905.1.1.1(2). Do not overlap end-joints or T-joints. All end-joints and T-joints shall be butted firmly side by side, flush with each other but not overlapped.

BASE SHEET: One (1) layer of FBC Approved, ASTM D226 Type II or ASTM D4869 Type III or IV, in accordance with FBC Table 1507.1.1.1 or Table R905.1.1.1, with a minimum 4-inch side lap and 6-inch end lap or two (2) layers of FBC Approved, ASTM D226 Type II or ASTM D4869 Type III or IV in accordance with FBC Section 1507.1.1.1(3) or R905.1.1.1(3), mechanically fastened to deck

FASTENERS: Min. 0.083-inch diameter annular ring or deformed shank nails with metal or plastic caps* with a nominal cap diameter of not less than 1-inch and minimum thickness as follows.

Cap Type	Minimum thickness
Metal cap	32 ga. sheet metal
Power-driven metal cap	0.010-inch
Plastic cap	0.035-inch (outside edge thickness)

The nail shall be of sufficient length to penetrate through the roof sheathing, or not less than 0.75-inch into the roof sheathing.

*NOTE: Metal caps are required where the ultimate design wind speed, V_{ult} , equals or exceeds 170 mph.



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- FASTENING: Grid pattern of 12-inches between the overlaps and 6-inch spacing at the overlaps, in accordance with FBC Table 1507.1.1.1 or Table R905.1.1.1 or FBC Section 1507.1.1.1(3) or R905.1.1.1(3).
- UNDERLAYMENT: **Bear Wrap Ice and Water Granulated** self-adhered in accordance with FBC Section 1507.1.1.1(1) or R905.1.1.1(1) and back-nailed in accordance with the manufacturer’s requirements.
- SURFACING: FBC Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles, subject to the allowable roof covers in [Table 2B](#) herein.

3.5 FBC HVHZ (Broward and Miami-Dade Counties):

3.5.1 Prescriptive Underlayment Systems for use in NON-TILE applications:

3.5.1.1 CODE REFERENCE: 1518.2.1, Option 1:

- APPLICATION:** Underlayment adhered to deck
- DECK DESCRIPTION: Code-minimum wood or structural concrete deck to the satisfaction of the Authority Having Jurisdiction (refer to [Table 3](#) herein for specific underlayment/substrate combinations)
- UNDERLAYMENT: **Bear Wrap Ice and Water Granulated** self-adhered in accordance with FBC Section 1518.2.1(1) and back-nailed max. 12-inch o.c. using FBC HVHZ Approved nails and tin caps (FBC HVHZ [1517.5](#)) or FBC HVHZ Approved concrete fasteners and plates.
- SURFACING: FBC HVHZ Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles, subject to the allowable roof covers in [Table 2B](#) herein.

3.5.1.2 CODE REFERENCE: 1518.2.1, Option 2:

- APPLICATION:** Self-adhering strips to deck-joints followed by underlayment mechanically attached to deck
- DECK DESCRIPTION: Code-minimum wood deck to the satisfaction of the Authority Having Jurisdiction
- SECONDARY WATER BARRIER: Min. 3 ¾-inch wide strips of **Bear Wrap Ice and Water Granulated** self-adhered over joints of the roof deck prior to installation of subsequent layer(s) in accordance with FBC Section 1518.2.1(2). Do not overlap end-joints or T-joints. All end-joints and T-joints shall be butted firmly side by side, flush with each other but not overlapped.
- UNDERLAYMENT: FBC HVHZ Approved, ASTM D226 Type II, ASTM D4869 Type III or IV or ASTM D8257 underlayment in accordance with FBC Table 1518.2.1, with a minimum 4-inch side lap and 6-inch end lap, mechanically fastened to deck
- FASTENING: FBC HVHZ Approved nails and tin caps (FBC HVHZ [1517.5](#)), grid pattern of 12-inches between the overlaps and 6-inch spacing at the overlaps, in accordance with FBC Table 1518.2.1.
- SURFACING: FBC HVHZ Approved prepared roof cover, subject to the limitations in FBC Table [1518.2.1](#).

3.5.1.3 CODE REFERENCE: 1518.2.1, Option 1 combined with Option 2 or 3:

- APPLICATION:** Optional self-adhering strips to deck-joints followed by base sheet mechanically fastened to deck followed by underlayment adhered to base sheet
- DECK DESCRIPTION: Code-minimum wood deck to the satisfaction of the Authority Having Jurisdiction
- SECONDARY WATER BARRIER: (Optional) Min. 3 ¾-inch wide strips of **Bear Wrap Ice and Water Granulated** self-adhered over joints of the roof deck prior to installation of subsequent layer(s) in accordance with FBC Section 1518.2.1(2). Do not overlap end-joints or T-joints. All end-joints and T-joints shall be butted firmly side by side, flush with each other but not overlapped.
- BASE SHEET: One (1) layer of FBC Approved, ASTM D226 Type II or ASTM D4869 Type III or IV, in accordance with FBC Table 1518.2.1, with a minimum 4-inch side lap and 6-inch end lap or two (2) layers of FBC Approved, ASTM D226 Type II or ASTM D4869 Type III or IV in accordance with FBC Section 1518.2.1(3), mechanically fastened to deck
- FASTENING: FBC HVHZ Approved nails and tin caps (FBC HVHZ [1517.5](#)), grid pattern of 12-inches between the overlaps and 6-inch spacing at the overlaps, in accordance with FBC Table 1518.2.1 or FBC Section 1518.2.1(3).
- UNDERLAYMENT: **Bear Wrap Ice and Water Granulated** self-adhered in accordance with FBC Section 1518.2.1(1) and back-nailed max. 12-inch o.c. using FBC HVHZ Approved nails and tin caps (FBC HVHZ [1517.5](#)).
- SURFACING: FBC HVHZ Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles, subject to the allowable roof covers in [Table 2B](#) herein.



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4. LIMITATIONS OF USE:

- 4.1 This is a building code evaluation. NEMO CERT, LLC is not, in any way, the Designer of Record for any project on which this NER, or previous versions thereof, is/was used for permitting or design guidance. NERs are not to be construed as representing any attributes not specifically listed, nor are NERs to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by NEMO CERT, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered by the report.
- 4.2 This NER pertains to above-deck roof components. Roof decks and structural members shall be in accordance with the applicable Code requirements to the satisfaction of the Authority Having Jurisdiction.
- 4.3 **Bear Wrap Ice and Water Granulated** is limited to roofs with ventilated attic spaces in accordance with the requirement of the applicable Code.
- 4.4 Installation of **Bear Wrap Ice and Water Granulated** is limited to when the ambient air and substrate temperatures are at or above 40°F.
- 4.5 **Bear Wrap Ice and Water Granulated** may be used with any prepared roof cover where the product is specifically referenced within the prepared roof cover's Approval documents. If not listed, a request may be made to the Authority Having Jurisdiction for approval based on this NER combined with supporting data for the prepared roof covering.
- 4.6 **Fire Classification:**
 - 4.6.1 **Bear Wrap Ice and Water Granulated** may be used as outlined in the [NEMO Scope of Certification D6997220K](#), or may be used in non-classified roof coverings or as a component of a classified roofing assembly when specifically recognized as such in a listing approved by the Authority Having Jurisdiction.



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4.7 Allowable Roof Covers:

Table 2 lists the roof cover types that are permissible with **Bear Wrap Ice and Water Granulated**, subject to fire classification documentation set forth in [Section 4.6](#) herein (if applicable).

TABLE 2A: ROOF COVER OPTIONS, IBC/IRC					
UNDERLAYMENT	ROOF COVER	IBC SECTION(S)		IRC SECTION(S)	
		SECTION	ALLOWABLE USE ¹	SECTION	ALLOWABLE USE ²
Bear Wrap Ice and Water Granulated	Asphalt Shingles	1507.2	Yes	R905.2	Yes
	Roof Tile	1507.3	Yes (mechanically fastened tile only)	R905.3	Yes (mechanically fastened tile only)
	Metal Shingles or Panels	1507.4, 1507.5	Yes	R905.4, R905.10	Yes
	Slate or Slate-Type Shingles	1507.7	Yes	R905.6	Yes
	Wood Shingles or Shakes	1507.8, 1507.9	Yes	R905.7, R905.8	Yes

TABLE 2B: ROOF COVER OPTIONS, FBC					
UNDERLAYMENT	ROOF COVER	FBC AND FBC-R SECTION(S)		FBC HVHZ SECTIONS	
		SECTION	ALLOWABLE USE	SECTION	ALLOWABLE USE
Bear Wrap Ice and Water Granulated	Asphalt Shingles	1507.2, R905.2	Yes	1518.2.1, RAS 115	Yes
	Roof Tile	1507.3, R905.3	No	RAS 118, RAS 119 or RAS 120	No
	Metal Shingles or Panels	1507.4, 1507.5, R905.4, R905.10	Yes	1518.2.1, RAS 133	Yes
	Slate or Slate-Type Shingles	1507.7, R905.6	Yes	1518.2.1	Yes
	Wood Shingles or Shakes	1507.8, 1507.9, R905.7, R905.8	Yes ³	1518.10, RAS 130	Yes ⁴

4.8 Allowable Substrates:

TABLE 3: SUBSTRATE OPTIONS FOR ADHERED UNDERLAYMENTS				
UNDERLAYMENT	APPLICATION	SUBSTRATES (DESIGNED TO MEET WIND LOADS FOR PROJECT)		
		TYPE	PRIMER	MATERIAL(S)
Bear Wrap Ice and Water Granulated	self-adhering	Deck / sheathing	(Optional) ASTM D41	Plywood, OSB
			(Optional) ASTM D41	Structural concrete

4.9 Attachment Limitations:

Refer to [Section 3](#) herein.

4.10 Exposure Limitations:

For use under the FBC, the maximum exposure duration set forth in Table 4 shall not be exceeded.

¹ For the **IBC**, product is used as min. 4-inch wide joint-strips per IBC 1507.1.1(1) or installed in full-coverage atop ASTM D226 felt or ASTM D4869 felt installed in accordance with IBC Tables 1507.1.1(2) and 1507.1.1(3).

² For the **IRC**, product is used in full-coverage in accordance with IRC R905.1.1(1), or as min. 4-inch wide joint-strips per IRC R905.1.1(2) or installed in full-coverage atop ASTM D226 felt or ASTM D4869 felt installed in accordance with IRC Tables R905.1.1(2) and R905.1.1(3).

³ For the **FBC** and use with wood shakes and shingles, product is used as min. 3 ¾-inch wide joint-strips per FBC 1507.1.1.1(2) / FBC R905.1.1.1(2) or installed in full-coverage atop ASTM D226, Type II felt or ASTM D4869 Type III or IV felt mechanically attached in accordance with FBC Table 1507.1.1.1 or FBC Residential Table R905.1.1.1.

⁴ For the **FBC HVHZ** and use with wood shakes and shingles, product use is limited to use as a closed-valley liner, as specified in Section 4.3 of RAS 130.



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TABLE 4: EXPOSURE LIMITATIONS	
UNDERLAYMENT	MAXIMUM EXPOSURE (DAYS)
Bear Wrap Ice and Water Granulated	30

- 4.11 All components in the roof assembly shall have quality assurance surveillance. For Florida Product Approval, this shall be in accordance with **F.A.C. Rule 61G20-3**. For components listed herein that are produced by a manufacturer other than the report holder on [Page 1](#) of this NER, refer to the supporting evidence held by the component manufacturer.

- END OF NER -