Product Approval
USER: Public User

FL #	FL47945
Application Type	New
Code Version	2023
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	LAMA for Waterproofing Inc
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Authorized Signature	Elias Balit elias@lamawp.ca
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Quality Assurance Representative	
Address/Phone/Email	
Category	Roofing
Subcategory	Underlayments
Compliance Method	Test Report
Testing Lab	ACE Laboratories
Quality Assurance Entity	Keystone Certifications, Inc.
Quality Assurance Contract Expiration Date	01/03/2035
Validated By	NEMO CERT, LLC (Validation)
Certificate of Independence	FL47945_R0_COI_FBC_LAMA_Letter_6-18-25.pdf

Referenced Standard and Year (of Standard)

Standard	Year
ASTM D1970	2017

Equivalence of Product Standards Certified By	
Product Approval Method	Method 1 Option B

Date Submitted	12/12/2025
Date Validated	12/12/2025
Date Pending FBC Approval	12/14/2025
Date Approved	02/10/2026

Summary of Products

FL #	Model, Number or Name	Description
47945.1	Hydrashell Weather-Tite HT	Self-adhering, modified bitumen underlayment
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** N/A **Design Pressure:** N/A **Other:** Not for use with tile roof systems		**Installation Instructions** FL47945_R0_II_Installation Instructions - Hydrashell HT.pdf Verified By: NEMO CERT, LLC (Eval) **Test Reports** FL47945_R0_TR_JX18G4A_Hydrashell_Weather-Tite_9_29_25 Signed.pdf

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Product Approval Accepts:

Credit Card Safe securityMETRICS

Hydrashell Weather-Tite HT
Installation Instructions

1. Product Description

This self-adhered waterproofing underlayment is designed to protect roof decks from water infiltration caused by ice dams and wind-driven rain. It consists of a rubberized asphalt adhesive laminated to a high-performance polymer or fiberglass carrier sheet, protected by a removable release liner.

2. Surface Preparation

- The roof deck must be clean, dry, and free of dust, dirt, oils, and other debris.
- Decking materials shall be minimum ⅜ inch (9.5 mm) exterior-grade plywood.
- Remove all loose nails and sharp protrusions prior to underlayment application.
- Prime concrete or masonry surfaces with an asphalt primer meeting ASTM D41 if required.

3. Application Conditions

- Minimum application temperature: 40°F (4°C) and rising.
- For cold weather installations (below 40°F), use a manufacturer-approved primer to promote adhesion, or warm the rolls prior to installation.

4. Application Instructions

4.1. General Guidelines
- Start at the eaves and work up the slope toward the ridge.
- Always install membranes horizontally (parallel to the eaves).

4.2. Membrane Installation
- Begin by aligning the roll at the lower edge of the roof (eaves) with sufficient overhang to extend over the fascia board.
- Remove the release liner while pressing the membrane into place, maintaining tension to avoid wrinkles.
- Apply membrane in straight, even courses, avoiding fish mouths and bridging over uneven surfaces.
- Use a weighted roller or heavy hand pressure to ensure full contact and avoid air pockets.

4.3. Side Laps and End Laps
- Side laps (horizontal overlaps): Minimum 3 inches (75 mm).
- End laps (vertical overlaps): Minimum 6 inches (150 mm).
- Ensure laps are firmly rolled to secure adhesion.

4.4. Minimum Slope Requirements
- LAMA UL is intended for use on roof slopes of 2:12 (17%) or greater. Do not install on roofs with a slope less than 2:12.

4.5. Florida Building Code (FBC) Conformity:
- *This product conforms to FBC sections:*
  - *FBC Section 1507.1.1.1(1)*
  - *FBC Section 1507.2.9.2*
  - *FBC Section 1518.2.1(1)*

Hydrashell Weather-Tite HT
Installation Instructions

5. Roof Coverage Areas

- Install membrane:
    - Along all eaves (typically up to 24 inches inside the exterior wall line, or more in cold climates).
    - At all valleys, ridges, hips, and gable ends.
    - Around roof penetrations such as chimneys, vents, skylights, and dormers.
    - Over the entire roof deck when full-deck protection is specified.

6. Fastening and Flashing

- No mechanical fasteners are used for the membrane itself.
- Roofing nails or fasteners for the final roof covering must penetrate through the membrane into the roof deck.
- Properly seal any fastener penetrations through the underlayment with manufacturer-approved sealant if required.

7. Additional Flashing Details

- In valleys: center a full-width membrane sheet over the valley line.
- At ridges: overlap membrane courses from both sides of the slope, ensuring complete coverage.

8. Final Roof Cover Installation

- Complete final roof covering installation (shingles, tiles, metal panels, etc.) according to manufacturer's approved system instructions.
- Ensure compatibility of the roofing materials with the underlayment.

9. Storage and Handling

- Store rolls upright on pallets.
- Protect from direct sunlight, moisture, and physical damage.
- Do not store at temperatures exceeding 100°F (38°C) for extended periods.

10. Warnings

- Do not leave exposed for more than 30 days without final roofing cover (unless otherwise specified).
- Avoid installing over wet, frozen, or contaminated surfaces.
- Use caution when walking on the membrane — it may be slippery, especially when wet or dusty.

Technical Service Report

ACE LABORATORIES

Revision# 3

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

MIAMI-DADE COUNTY APPROVED

Testing Laboratory:

ACE Laboratories

6800 N. Chestnut St.
Ravenna, OH 44266
Ph: 330-577-4088

Customer:

LAMA

Elias Mario Balit

333 Henry Street, Unit #1

Brantford ON N36 0H6

elias@lamawp.ca

Project #: JX18G4A

Quote #: C23-1254

Date of Report: Monday, September 29, 2025

PO#:

Abstract: Analysis of one (1) product in accordance with ASTM D1970 Standard Specification for Self- Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection.

ID #	Description of Material	Receiving Date	Sample Condition	Sampled By
ACE-340392	Hydrashell Weather-Tite HT- Production Location: 01-333 Henry Street, Brantford, ON, N3S 0E4, Production Date: 12/16/2024	1/16/2025	Acceptable	Customer

ACE LABORATORIES

Project #:	JX18G4A
Quote #:	C23-1254
Date:	9/29/2025
PO#:	
Revision#:	3

Results and Conclusion

Test #: 1

Method D1970/1970M-15a **Environmental Conditions** 73.4±3.6°F, 50±5% RH

Test/Description: Thickness per ASTM D5147

Result: **Average of 5: 1.1 mm (41.8 mils)**

Std. Dev: 0.002

Requirement min. 1.0mm (40 mils)

Conclusion: **Pass**

Test #: 2

Method D1970/1970M-15a **Environmental Conditions** 73.4±3.6°F, 50±5% RH

Test/Description: Maximum Load @ 23°C - MD per ASTM D2523

Individual Results-
1: 9.1 kN/m (52.5 lbf/in)
2: 9.1 kN/m (52.2 lbf/in)
3: 11.8 kN/m (67.6 lbf/in)
4: 12.5 kN/m (71.5 lbf/in)
5: 8.8 kN/m (50.3 lbf/in)
Std. Dev: 9.9

Result: **10.3 kN/m (58.8 lbf/in)**

Requirement min. 4.4 kN/m (25 lbf/in)

Conclusion: **Pass**

Results and Conclusion

Test #: 3

Method D1970/1970M-15a **Environmental Conditions** 73.4±3.6°F, 50±5% RH

Test/Description: Elongation at Break @ 23°C - MD per ASTM D2523 (of modified bitumen portion)-Visual Determination

Individual Results-(%)
1: 11.7
2: 12.7
3: 13.7
4: 11.4
5: 10.5
Std. Dev: 1.2

Result: **12.0%**

Requirement min. 10%

Conclusion: **Pass**

Test #: 4

Method D1970/1970M-15a **Environmental Conditions** 73.4±3.6°F, 50±5% RH

Test/Description: Maximum Load @ 23°C - XMD per ASTM D2523

Individual Results-
1: 7.2 kN/M (41.4 lbf/in)
2: 8.4 kN/m (47.8 lbf/in)
3: 6.5 kN/m (37.4 lbf/in)
4: 6.7 kN/m (38.1 lbf/in)
5: 6.5 kN/m (37.0 lbf/in)
Std. Dev: 4.5

Result: **7.1 kN/m (40.3 lbf/in)**

Requirement min. 4.4 kN/m (25 lbf/in)

Conclusion: **Pass**

Results and Conclusion

Test #: 5

Method D1970/1970M-15a **Environmental Conditions** 73.4±3.6°F, 50±5% RH

Test/Description: Elongation at Break @ 23°C - XMD per ASTM D2523 (of modified bitumen portion)-Visual Determination

Individual Results-(%)
1: 15.4
2: 10.4
3: 17.2
4: 11.9
5: 10.7
Std. Dev: 3.0

Result: **13.1%**

Requirement min. 10%

Conclusion: **Pass**

Test #: 6

Method D1970/1970M-15a **Environmental Conditions** 40±5°F

Test/Description: Adhesion to Plywood @ 40°F per ASTM D903

Individual Measurements-
1: 7.7 kgf/30.5 cm (16.9 lbf/ft width)
2: 7.9 kgf/30.5 cm (17.4 lbf/ft width)
3: 4.9 kgf/30.5 cm (10.8 lbf/ft width)
4: 7.6 kgf/30.5 cm (16.7 lbf/ft width)
5: 8.9 kgf/30.5 cm (19.7 lbf/ft width)
Std. Dev: 3.0

Result: **Average of 5 Specimens: 7.4 kgf/30.5 cm (16.3 lbf/ft width)**

Requirement min. 0.92 kgf/30.5 cm (2.0 lbf/ft width)

Conclusion: **Pass**

Results and Conclusion

Test #: 7

Method D1970/1970M-15a **Environmental Conditions** 73.4±3.6°F, 50±5% RH

Test/Description: Adhesion to Plywood @ 75°F per ASTM D903

Individual Measurements
1: 5.2 kgf/30.5 cm (11.5 lbf/ft width)
2: 5.8 kgf/30.5 cm (12.8 lbf/ft width)
3: 6.3 kgf/30.5 cm (13.9 lbf/ft width)
4: 6.2 kgf/30.5 cm (13.6 lbf/ft width)
5: 5.7 kgf/30.5 cm (12.6 lbf/ft width)
Std. Dev: 0.8

Result: **Average of 5 specimens: 5.8 lkgf/30.5 cm (12.8 lbf/ft width)**

Requirement min. 5.44 kgf/30.5 cm 12.0 lbf/ft width

Conclusion: **Pass**

Test #: 8

Method D1970/1970M-15a **Environmental Conditions** 158±4°F

Test/Description: Thermal Stability per ASTM D1204

Result: **All 5 measurements: 0.0 mm (0.0 in)**

Std. Dev: 0.0

Requirement max. 3 mm (0.1 in)

Conclusion: **Pass**

Test #: 9

Method D1970/1970M-15a **Environmental Conditions** −20±3.6°F

Test/Description: Flexibility Temperature @ -29°C (-20°F) - MD

Result: **Bitumen cracking with weathering side towards mandrel**

Requirement All specimens must pass at the test temperature of −29°C [−20°F]. Report as a pass if no cracking is visible. If cracking is visible on any specimen, performance of the Head of Water Test at Flexibility Temperature is required.

Conclusion: **N/A**

Results and Conclusion

Test #: 10

Method D1970/1970M-15a **Environmental Conditions** −20±3.6°F

Test/Description: Flexibility Temperature @ -29°C (-20°F) - XMD

Result: **Bitumen cracking with weathering side towards mandrel**

Requirement All specimens must pass at the test temperature of −29°C [−20°F]. Report as a pass if no cracking is visible. If cracking is visible on any specimen, performance of the Head of Water Test at Flexibility Temperature is required.

Conclusion: **N/A**

Test #: 11

Method D1970/1970M-15a **Environmental Conditions** 40±5°F

Test/Description: Waterproof Integrity After Low Temperature Flexibility

Result: **Pass**

Requirement Pass

Conclusion: **Pass**

Test #: 12

Method D1970/1970M-15a **Environmental Conditions** 73.4±3.6°F, 50±5% RH

Test/Description: Tear Resistance per ASTM D4073 - MD

Individual Results-
1: 336.7 N (75.7 lbf)
2: 305.1 N (68.6 lbf)
3: 259.3 N (58.3 lbf)
Std Dev: 7.1

Result: **Average: 300.2 N (67.5 lbf)**

Requirement min. 89 N (20 lbf)

Conclusion: **Pass**

ACE LABORATORIES

Project #:	JX18G4A
Quote #:	C23-1254
Date:	9/29/2025
PO#:	
Revision#:	3

Results and Conclusion

Test #: 13

Method D1970/1970M-15a **Environmental Conditions** 73.4±3.6°F, 50±5% RH

Test/Description: Tear Resistance per ASTM D4073 - XMD

Individual Results-
1: 139.7 N (31.4 lbf)
2: 139.7 N (31.4 lbf)
3: 133.9 N (30.1 lbf)
Std. Dev: 0.6

Result: **137.9 N (31.0 lbf)**

Requirement min. 89 N (20 lbf)

Conclusion: **Pass**

Test #: 14

Method D1970/1970M-15a **Environmental Conditions** Chamber Conditions-Avg.Temp: 74.3°F, Avg. RH: 50.3

Test/Description: Moisture Vapor Permeance per ASTM E96.
Upright, water method, glass test dish, product adhesive used as sealant with the adhesive side facing the medium

Individual Results-
1: 2.32 ng/Pa.S.M.^{2} (0.041 perms)
2: 2.39 ng/Pa.S.M.^{2} (0.042 perms)
3: 2.49 ng/Pa.S.M.^{2} (0.044 perms)

-

Result: **Average: 2.40 ng/Pa.S.M.^{2} (0.042 perms)**

Requirement max. 5.7 ng/Pa.S.M.^{2} (0.1 U.S. Perms)

Conclusion: **Pass**

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

MIAMI-DADE COUNTY APPROVED

Results and Conclusion

Test #: 15

Method D1970/1970M-15a **Environmental Conditions** 40±5°F

Test/Description: Capability to seal around nail per ASTM D7349

Result: **Pass**

Requirement Pass

Conclusion: **Pass**

Test #: 16

Method D1970/1970M-15a **Environmental Conditions** 40±5°F

Test/Description: Waterproof Integrity of Lap Seam

Result: **No water found between the plywood and the unadhered upper piece**

Requirement No water found between the plywood and the unadhered upper piece

Conclusion: **Pass**

ACE LABORATORIES

Project #:	JX18G4A
Quote #:	C23-1254
Date:	9/29/2025
PO#:	
Revision#:	3

Results and Conclusion

Conclusion: The product meets the requirements of ASTM D1970/D1970M-15a.

Testing Dates

7/18/2024 - 4/25/2025

Tested By:

Jerry Spinelli

Jerry Spinelli

Special Testing Coordinator

Reviewed By:

RANDOLPH KRIZMANICH LICENSE No 67717 STATE OF FLORIDA PROFESSIONAL ENGINEER

Randolph Krizmanich

Randolph Krizmanich

Florida Professional Engineer

PE No. 67717

Verified By:

Rodney Armstrong

Engineering Manager

Revision Log

Revision #	Date	Revision
0	8/28/2024	Initial
1	1/21/2025	Retest for tensile and peel at 40°F
2	4/25/2025	Retest for peel at 40°F
3	9/29/2025	Product Log In Update

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

MIAMI-DADE COUNTY APPROVED

Results and Conclusion

ACE Laboratories is an ANAB accredited ISO/IEC 17025 testing laboratory. The laboratory's certificate number is AT-2601 and all data here within is included within the that laboratory scope unless otherwise marked.

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