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EVALUATION CENTER

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RENDERED TO

Palziv North America
7966 NC 56 Hwy West
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PRODUCT EVALUATED: Eco Cork Foam
EVALUATION PROPERTY: Water Vapor Transmission

Report of testing samples of Eco Cork Foam following the standard methods of ASTM E96-16: *Water Vapor Transmission of Materials as modified by NALFA UL 01-2008: Underlayment Pad Section 3.5: Water Vapor Transmission.*

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1 TABLE OF CONTENTS

1	TABLE OF CONTENTS	2
2	REVISION SUMMARY.....	2
3	INTRODUCTION	3
4	TEST SAMPLES	3
4.1.	SAMPLE SELECTION.....	3
4.2.	SAMPLE AND ASSEMBLY DESCRIPTION.....	3
5	TESTING AND EVALUATION METHODS.....	3
5.1.	ASTM E96-16 WATER VAPOR TRANSMISSION	3
6	TESTING AND EVALUATION RESULTS.....	4
6.1.	RESULTS AND OBSERVATIONS.....	4
7	CONCLUSION	4
	APPENDIX A- EQUIPMENT CALIBRATION	5

2 REVISION SUMMARY

DATE	SUMMARY
August 17, 2017	Date of original report

3 INTRODUCTION

Intertek has conducted testing for Palziv North America, on samples of their Eco Cork Foam, to evaluate Water Vapor Transmission. Testing was conducted following the standard methods of ASTM E96-16: *Water Vapor Transmission of Materials* as modified by NALFA UL 01-2008: *Underlayment Pad* Section 3.5: *Water Vapor Transmission*. This evaluation began July 17, 2017 and was completed August 17, 2017.

4 TEST SAMPLES

4.1. SAMPLE SELECTION

Samples were submitted directly by the client and were not independently selected for testing. Samples were received at the Evaluation Center on July 5, 2017 in good condition and labeled as MID1707051151.

4.2. SAMPLE AND ASSEMBLY DESCRIPTION

Submitted samples of Eco Cork Foam are described as a 0.125" tan/brown foam layer laminated onto a 6 mil clear polyethylene film.

5 TESTING AND EVALUATION METHODS

5.1. ASTM E96-16 WATER VAPOR TRANSMISSION

Four (4) test samples of Eco Cork Foam were prepared with a 2.5-inch diameter. The first sample (labeled A) was used as a control and attached to an empty 2.5-inch aluminum cup. The remaining samples (labeled B, C, and D) were attached to 2.5-inch aluminum cups filled with distilled water to within 0.25 inch of the sample. All four (4) samples were placed in an environmental chamber at 100°F and 90% relative humidity for 672 hours. Periodic measurements were taken to determine weight change over the course of the 672 hours to determine the rate of water vapor transmission.

6 TESTING AND EVALUATION RESULTS

6.1. RESULTS AND OBSERVATIONS

Results for Eco Cork Foam by Palziv North America	
Water Vapor Transmission per ASTM E96-16 Modified by NALFA UL 01-2008	0.01 (g/h·m ²) [S.D. 0.0 (g/h·m ²)]
	0.01 (grains/h·ft ²) [S.D. 0.01 (grains/h·ft ²)]
	0.05 lbm/1000 ft ² ·day [S.D. 0.02 lbm/1000 ft ² ·day]
Permeance per ASTM E96-16 Modified by NALFA UL 01-2008	2.92 ng/(Pa.s.m ²) [S.D. 1.39 ng/(Pa.s.m ²)]
	0.05 (Perms) [S.D. 0.02 (Perms)]

7 CONCLUSION

Intertek has conducted testing for Palziv North America, on their Eco Cork Foam, to evaluate Water Vapor Transmission. Testing was conducted following the standard methods of ASTM E96-16: *Water Vapor Transmission of Materials* as modified by NALFA UL 01-2008: *Underlayment Pad* Section 3.5: *Water Vapor Transmission*. This evaluation began July 17, 2017 and was completed August 17, 2017.

The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

INTERTEK

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Appendix A- EQUIPMENT CALIBRATION

Equipment	Asset Number	Calibration Date
Envirotronics SH27 Environmental Chamber	784	4/11/2018
Mettler Toledo AB3045 Analytical Balance	1045	1/25/2018
Velocicalc Anemometer	1254	2/15/2018
Comet Weather Probe	1455	2/27/2018