

Client: **Magnetic Building Solutions LLC**  
 Project: **WFCA E96 Testing**  
 Contact: **Mr. Steve Abernathy**

CTLGroup project no.: **281452**  
 CTLGroup project mgr.: **E. Rodenkirch**  
 Analyst/Technician: **M. Klaric, B. Demharter**  
 Approved: **E. Rodenkirch**  
 Report Date: **5-May-17**

**ASTM E96-16 Standard Test Method for Water Vapor Transmission of Materials**

**RESULTS**

MagneFloor 1.25mm  
 Flooring Underlayment @ taped seam **0.044** net perms (grains h<sup>-1</sup> ft<sup>-2</sup> in Hg<sup>-1</sup>)

**SPECIMEN INFORMATION**

MagneFloor 1.25mm Flooring Underlayment @ taped seam  
 Client ID **4439704**  
 CTLGroup ID **4439704**  
 Material type **underlayment**  
 Concrete cast date **n/a**  
 Moist cure **n/a**  
 Drying **n/a**  
 Surface Profile **n/a**  
 Coating Applied **n/a**  
 Concrete thickness, in. **n/a**  
 Ave. Coating thickness, in. **n/a**  
 Exposed area, in<sup>2</sup>. **54.3**  
 Mix Ratio A:B (wt:wt) **n/a**  
 No. Coats **1 sheet**  
 Sheet thickness, in. **0.047**  
 Balance **EP6102C s/n M028112**  
 Last Calibration **23-Jan-17**  
 Prepared by **MK/WD**

**SPECIMEN PHOTOGRAPH**

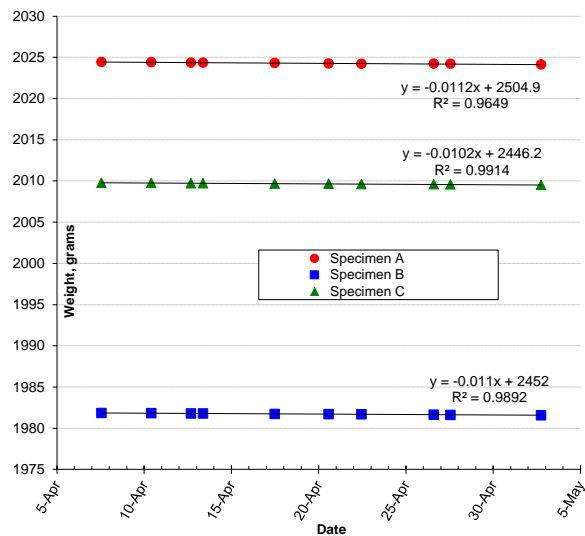


Note: Tape applied to underside of product seam. Tape used was Intertape Polymer Group VersaTape Underwater Tape.

**DATA COLLECTED**

Specimen A		Specimen B		Specimen C	
date	wt, grams	date	wt, grams	date	wt, grams
3/15/17 13:14	2024.58	3/15/17 13:15	1981.96	3/15/17 13:15	2009.94
3/17/17 10:03	2024.56	3/17/17 10:03	1981.99	3/17/17 10:03	2009.94
3/21/17 10:29	2024.55	3/21/17 10:29	1981.96	3/21/17 10:29	2009.92
3/22/17 0:00	2024.52	3/22/17 0:00	1981.93	3/21/17 0:00	2009.91
3/24/17 9:46	2024.52	3/24/17 9:46	1981.93	3/24/17 9:46	2009.90
3/28/17 13:37	2024.51	3/28/17 13:37	1981.92	3/28/17 13:37	2009.89
3/31/17 8:01	2024.50	3/31/17 8:01	1981.92	3/31/17 8:01	2009.87
4/4/17 11:15	2024.44	4/4/17 11:15	1981.84	4/4/17 11:15	2009.82
4/7/17 13:25	2024.43	4/7/17 13:25	1981.84	4/7/17 13:25	2009.77
4/10/17 9:47	2024.41	4/10/17 9:47	1981.82	4/10/17 9:47	2009.75
4/12/17 16:19	2024.35	4/12/17 16:20	1981.78	4/12/17 16:20	2009.72
4/13/17 9:01	2024.35	4/13/17 9:01	1981.77	4/13/17 9:01	2009.72
4/17/17 11:32	2024.31	4/17/17 11:32	1981.72	4/17/17 11:32	2009.68
4/20/17 13:35	2024.26	4/20/17 13:35	1981.70	4/20/17 13:35	2009.65
4/22/17 10:49	2024.22	4/22/17 10:49	1981.68	4/22/17 10:50	2009.61
4/26/17 14:20	2024.23	4/26/17 14:20	1981.65	4/26/17 14:20	2009.59
4/27/17 13:18	2024.21	4/27/17 13:19	1981.61	4/27/17 13:19	2009.58
5/2/17 17:51	2024.14	5/2/17 17:51	1981.56	5/2/17 17:51	2009.51

**DATA GRAPH**



Results linear in boxed range used for calculations.

**CALCULATION OF RESULTS**

	Water Vapor Transmission, grams h <sup>-1</sup> m <sup>-2</sup>			Specimen A	Measured Permeance, Perms grains h <sup>-1</sup> ft <sup>-2</sup> in Hg <sup>-1</sup>		Average Measured Permeance, Perms grains h <sup>-1</sup> ft <sup>-2</sup> in Hg <sup>-1</sup>
	Specimen A	Specimen B	Specimen C		Specimen B	Specimen C	
MagneFloor 1.25mm Flooring Underlayment @ taped seam	0.013	0.013	0.012	0.046	0.045	0.042	0.044
Aluminum Blanks	<0.001	<0.001	--	<0.01	<0.01	--	<0.01

**Notes**

- Water Method with top side facing 50%RH/73°F and bottom side over water. Specimens exposed over 6.75 x 10.75 x 1.0-in. stainless steel flanged pans using SM5143 vacuum sealant tape. Results are specifically for these test conditions
- Permeance in PERMS (grains h<sup>-1</sup> ft<sup>-2</sup> in Hg<sup>-1</sup>) applies to specimens at thickness tested.
- Net permeance is calculated from the sum of the inverse perm values. These are a measure of resistance to moisture vapor movement:  $1/Perm_{(total)} = 1/Perm_{(concrete)} + 1/Perm_{(coating)}$
- Aluminum blanks are used as control specimens.
- Calculation by least squares linear regression analysis per ASTM E96-16 Sect. 13.
- These results represent specifically the samples submitted for testing. This report may not be reproduced except in its entirety.