

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
0.078 net perms (grains h⁻¹ ft² in Hg⁻¹)
 Flooring Underlayment

SPECIMEN PHOTOGRAPH



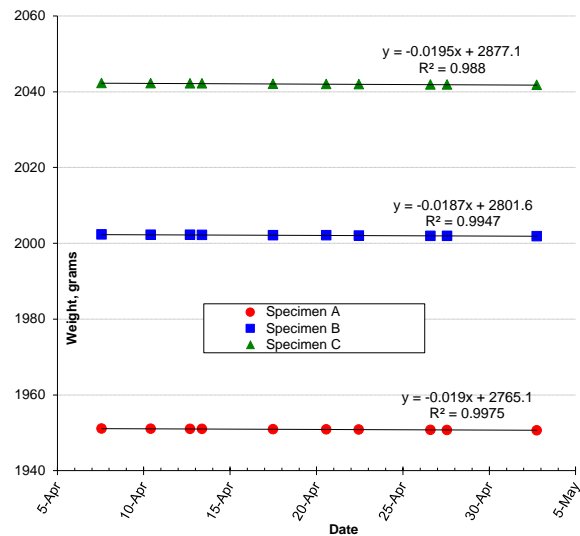
SPECIMEN INFORMATION

MagneFloor 1.25mm
 Client ID: **Flooring Underlayment**
 CTLGroup ID: **4439703**
 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, in²: **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**

DATA COLLECTED

Specimen A		Specimen B		Specimen C	
date	wt, grams	date	wt, grams	date	wt, grams
3/15/17 13:13	1951.42	3/15/17 13:13	2002.60	3/15/17 13:14	2042.52
3/17/17 10:02	1951.38	3/17/17 10:02	2002.61	3/17/17 10:02	2042.52
3/21/17 10:27	1951.38	3/21/17 10:28	2002.59	3/21/17 10:28	2042.50
3/22/17 13:43	1951.35	3/22/17 13:44	2002.57	3/22/17 13:44	2042.47
3/24/17 9:44	1951.34	3/24/17 9:45	2002.56	3/24/17 9:45	2042.46
3/28/17 13:35	1951.30	3/28/17 13:36	2002.51	3/28/17 13:36	2042.44
3/31/17 8:00	1951.24	3/31/17 8:00	2002.48	3/31/17 8:00	2042.42
4/4/17 11:14	1951.19	4/4/17 11:14	2002.41	4/4/17 11:14	2042.34
4/7/17 13:24	1951.12	4/7/17 13:24	2002.35	4/7/17 13:25	2042.28
4/10/17 9:46	1951.08	4/10/17 9:46	2002.27	4/10/17 9:46	2042.25
4/12/17 16:18	1951.02	4/12/17 16:19	2002.26	4/12/17 16:19	2042.18
4/13/17 9:00	1951.02	4/13/17 9:00	2002.23	4/13/17 9:00	2042.18
4/17/17 11:31	1950.95	4/17/17 11:31	2002.15	4/17/17 11:31	2042.09
4/20/17 13:34	1950.89	4/20/17 13:34	2002.11	4/20/17 13:34	2042.04
4/22/17 10:48	1950.85	4/22/17 10:49	2002.05	4/22/17 10:49	2041.98
4/26/17 14:19	1950.76	4/26/17 14:19	2001.98	4/26/17 14:19	2041.88
4/27/17 13:17	1950.74	4/27/17 13:18	2001.98	4/27/17 13:18	2041.92
5/2/17 17:50	1950.65	5/2/17 17:50	2001.87	5/2/17 17:50	2041.81

DATA GRAPH



Results linear in boxed range used for calculations.

CALCULATION OF RESULTS

	Water Vapor Transmission, grams h ⁻¹ m ²			Specimen A	Measured Permeance, perms grains h ⁻¹ ft ² in Hg ⁻¹		Average Measured Permeance, perms grains h ⁻¹ ft ² in Hg ⁻¹
	Specimen A	Specimen B	Specimen C		Specimen B	Specimen C	
MagneFloor 1.25mm Flooring Underlayment	0.023	0.022	0.023	0.078	0.076	0.080	0.078
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⁻¹ ft² in Hg⁻¹) 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.