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Materials Technology

Stork Twin City Testing Corporation

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DATE: February 10, 2010

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Investigative Chemistry
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**SOUND ABSORPTION TESTING OF
WHITE POLYESTER PANELS**

Prepared for:
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Client Reference Number: PrePay

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The test results contained in this report pertain only to the samples submitted for testing and not necessarily to all similar products.



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SOUND ABSORPTION / NOISE REDUCTION COEFFICIENT
(ASTM C423)

INTRODUCTION:

This report presents the results of sound absorption tests conducted on a sample of polyester boards. The testing was authorized by Ms. Sumi Kim of Hueintek Inc. The testing and data analysis were completed on February 4, 2010.

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Stork Twin City Testing Corporation has been accredited by the U.S. Department of Commerce and the National Institute of Standards and Technology (NIST, formerly NBS) under their National Voluntary Laboratory Accreditation Program (NVLAP, lab code # 200046-0) for conducting ASTM C423 test procedure. This report may not be used to claim product endorsement by NVLAP, NIST or any agency of the U.S. Government.

SUMMARY OF RESULTS:
NOISE REDUCTION COEFFICIENT (NRC)

<i>Sound Absorption Testing</i>					Test Results	
Test #	Sample Identification	Thickness (in)	Total Weight (lbs)	Weight (psf)	NRC	SAA
2	1/2" Polyester Panels	0.5	28.5	0.4	<i>0.40</i>	<i>0.41</i>

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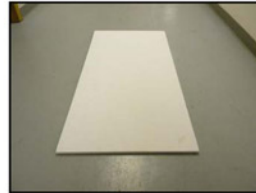
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SAMPLE IDENTIFICATION:

Manufacturer : Hueintek Inc
Sample #2, Model # : ½" Polyester Panel
Panel Size : 24" x 48" x ½"
Panel Weight : 3.2-lbs (0.4-psf)
Quantity of Panels: 9
Area tested : 72-ft²
Specimen Description : The material was in panel form.


TEST METHOD:
Sound Absorption Test

ASTM C 423-09, "Sound Absorption and Sound Absorption Coefficient by the Reverberation Room Method", was followed in every respect. The samples were tested in a Type A mounting (on the floor).

NRC was calculated by rounding the sound absorption coefficients for 250, 500, 1000 and 2000 Hz to the nearest 0.05. SAA was calculated by rounding the sound absorption coefficients for the twelve frequencies from 200 Hz to 2500 Hz to the nearest 0.01.

TEST EQUIPMENT:

<u>Manufacturer</u>	<u>Model</u>	<u>Description</u>	<u>S/N</u>
Norwegian Electronics	NE830	Real Time Analyzer	10722
Brüel & Kjær	3923	Rotating Microphone Boom	815424
Norsonic (Source Rm)	1230	Pressure Condenser Microphone	26361
Brüel & Kjær (Term Rm)	4192	Pressure Condenser Microphone	2360314

REMARKS:

The test sample will be retained for a period of **15-days** and then discarded unless notified by the client.

F:\Product\MMFILES\MNB\2009 REPORTS MNB02810-1\hueintek.doc

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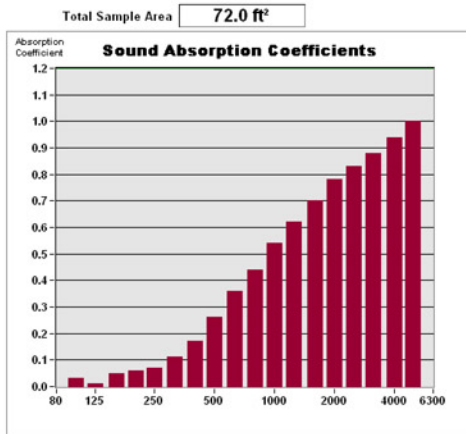
DATE: February 10, 2010

TEST DATA:

Filename test #2		ASTM C423 - Sound Absorption		
Client Hueintek Inc.	Product 1/2" Acoustic Panels	Model #	Quantity 1	Comment
Sample Size - Wt. 108.0 in x 96.0 in x 1/2" - 28 lbs		Sample Description Hueintek Inc. (9) 1/2" x 24" x 48" Polyester Acoustical Panels :		
Time Stamp Thu, Feb 04, 2010 - 10:47 AM				

F (Hz)	Absorption Coefficient	Absorption (Sabins)*
100	0.03	2.44
125	0.01	1.01
160	0.05	3.36
200	0.06	4.57
250	0.07	4.89
315	0.11	7.91
400	0.17	12.48
500	0.26	18.48
630	0.36	25.84
800	0.44	31.69
1000	0.54	38.80
1250	0.62	44.46
1600	0.70	50.15
2000	0.78	56.00
2500	0.83	59.57
3150	0.88	63.53
4000	0.94	68.00
5000	1.00	71.82

Temp (°C)	R.H. (%)	ATM (mbar)
20.8	50	1002

 * total absorption based on 72.0 ft²

SAA = 0.41 NRC = 0.40

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