

## Professional Service Industries, Inc. PTL/Shilstone Engineering Test Lab Division

#### REPORT OF LIGHT REFLECTANCE

TESTED FOR:

International Cellulose Company PROJECT:

Light Reflectance

12315 Robin Blvd.

Houston, Texas 77045 Attn: Mr. Steve Kempe

DATE:

April 4, 1991

OUR REPORT NO.: 216-16034-01

REMARKS:

Professional Service Industries, Inc. (PSI) received two (2) samples of insulation material from Mr. Steve Kempe of International Cellulose Company. As requested by Mr. Kempe the samples were tested for light reflectance per ASTM D-2244.

The results obtained are as follows.

Test Results

Sample ID

Average Reflectance

K-13 "FC" White Arctic White

73.7%

81.5%

Respectfully submitted

PROFESSIONAL SERVICE INDUSTRIES, INC.

Phone: 713/224-2047



# Professional Service Industries, Inc. PTL/Shilstone Engineering Test Lab Division

#### REPORT OF TESTING OF INSULATION

TESTED FCR:

International Callulose Company

12315 Robin Boulevard Houston, Texas 77045

Attn: Mr. Harold Boyer

PROJECT

Testing of Insulation

Houston, Texas

DATE

March 16, 1990

CUR REPORT NO .:

216-06041-01

REMARKS:

On March 15, 1990, Professional Service Industries, Inc. (PSI) recaived one (1) sample of 1" sheet rock with sprayed insulation applied to one side. As requested by Mr. Boyer, the sample was tested in accordance with ASTM E 736. The results obtained are as follows:

> Load Test (ASTM E 736)

Sample ID	Area, in2	Pull Load, ost	Mode of Failure
1 K-13 "FC" Dura-K	9.5	4.5	Between Sheet Rock and the Sheet Rock Paper

Respectfully submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.

1714 Memorial Drive

Housener TY 77007

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#### REPORT OF COMESION/ADMESION TEST

STED FOR:

International Cellulose

12315 Robin Blvd.

PROJECT:

Adhesion/Cohesion Testing of

K-13 fo by ASTM E- 736

Houston, Tx 77045

September 12, 1997

REVISION #1

OUR REPORT NO.: 198-56029-5

MARKS:

ATE:

On September 4, 1997, Professional Service Industries, Inc. (PSI) received a piece of painted metal, 12' by 12', coated with sprayed on cellulose K13 fe. PSI performed cohesion/adhesion testing on the submitted specimen. Testing was done in general accordance with ASTM E736. The test results are as follows:

Sample	Average	Area of	Load	Load in	Mode of
No	Thickness(in)	Test Sq In	in Lbs	Lbs Sq Ft	Failure
1	0.825	0.0621	130	2093	Cohesive

<sup>\*</sup> Specifications were not provided by Client.

If you have any questions or require additional information, please contact us at your convenience.

TECHNICIAN: C Shepard

TIME: 4 hours

Respectfully submitted,

Professional Service Industries, Inc.

Iradj Ayazi, P.E. District Manager



### Professional Service Industries, Inc. PTL/Shilstone Engineering Test Lab Division

#### REPORT OF COMPRESSION TEST ON INSULATION

TED FOR:

PROJECT:

Adhesive Test

International Cellulose Corporation Post Office Box 450006 Houston, Texas 77245-0006

E: August 6, 1990

OUR REPORT NO.:

(REVISED) 216-06041-05

ARKS:

Professional Service Industries, Inc. (PSI) received Two (2) samples of Sprayed-on Insulation from Mr. Steve Kempe of International Cellulose Corporation. As requested by Mr. Kempe the material was tested for adhesion per ASTM E-736. The results obtained are as follows:

#### ADHESIVE TEST, ASTM E-736

Sample ID	Area Inches, Squared	Pull Load PSI	Mode of Failure
K-13 FC	9.6	5.1	Insulation
K-13 FC Dura-K	9.6	11.04	Sheet Rock

Note: At the request of Mr. Kempe, the insulation was tested on sheet rock material.

RECEIVED SEP 27 1990 Respectfully submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.

Mike Phares, Director Metallurgical Operations & Special Services



(315) 463-0088

6521A Basile Rowe • East Syracuse, New York 13057

TCP 3753 Reported: 1/9/97

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DESCRIPTION

SPRAYED INSULATION INSPECTION

REPORT

PROJECT

Carousel Mall

DATE

12/18/96

REPORTED TO

International Cellulose Co.

12315 Robin Blvd. Houston, TX 77045

On 12/18/96 our inspector, T. Hill, was present at the above mentioned project site for the purpose of performing Cohesion - Adhesion tests of K13. Inspection performed in accordance with ASTM E736.

Test Location	Force Exerted (lbf)	Area of Dish (ft²)	Cohesion/ Adhesion Force-PSF	Type of Failure
K13 insulation: Area eas	of Lord &	Taylor parking	z area	
1) Exit ramp for Lord &				
parking area, Ceiling	35	.0621	564	Cohesive
2) 30 feet east of Test #4	1			
Bottom of beam	25	.0621	400	Cohesive
3) Parking area				
Seahorse 7 and 6				
driving lane, Ceiling.	25	.0621	400	Cohesive

Respectfully submitted, TESTWELL CRAIG PETERS TESTING LABORATORIES, INC. Walter J. Peters, President

I/InternationI Cellulose Co. I/TCP pp



### SGS U.S. Testing Company Inc.

1341 North 108th East Avenue

Tulsa, OK 74116 Tel: 918-437-8333 Fax: 918-437-8487 Report No.: IP97-0065R

Revised: 5/6/97

Page 1 of 1

Original Issue: 5/1/97

CLIENT:

International Cellulose P.O. Box 450006

Houston, TX 77245

Attn: Harold Boyer

SUBJECT:

Air Erosion Test on Spray-On Insulation

SAMPLE ID .:

The client submitted 2 panels totaling 8 ft.2 with K-13 Spray-On material

applied insulation. These panels were received on 4/10/97.

PROCEDURE:

The panels were evaluated in accordance with ASTM C 1149-90, section

6.10, which refers to ASTM E 859-93.

TEST DATE:

4/18/97 - 4/20/97

RESULTS:

Time, hours	Weight, g		
0	9.4790		
1	9.8528		
6	10.1049		
24	10.1861		
30	10.1861		

CONCLUSION:

The test was stopped after 30 hours because a constant weight had been

reached.

CERTIFICATION:

bk

The tests reported here were conducted under the continuous direct

supervision of SGS U.S. Testing Company Inc., Tulsa, OK.

Jeff Simmons

Dept. Manager/ Product Evaluation

Signed for the Company

Dale E. Holloway Tulsa Branch Director

Member of the SGS Group

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