



P.O. Box 2400
Cookeville, Tennessee 38502-2400
Phone: 931-372-8871
Fax: 931-525-3896

Design Density Test Report

Test Number: RD071918DD

Date of Test: May 30, 2007

Specimen Number: 1028070523-3

Date of Manufacture: May 17, 2007

Description of test specimen: Applegate-PA; Stabilized Cellulose Insulation; Blown Using a Krendl Machine and Conditioned for > 72 hours at 69.8 +/- 3.6°F and 50 +/- 5% RH

Test Method: ASTM C 739-05, Section 8 "Specification for Cellulosic Fiber Loose-Fill Thermal Insulation."

Report prepared for: Applegate-Chambersburg, PA / John Powlison

	Test 1	Test 2	Test 3	Test 4	
Wt.	<u>91.10</u>	<u>91.70</u>	<u>91.60</u>	<u>91.20</u>	(grams)
Area	<u>0.018385</u>	<u>0.018385</u>	<u>0.018385</u>	<u>0.018385</u>	(m ²)
Depth	<u>225</u>	<u>225</u>	<u>223</u>	<u>226</u>	(mm)
	<u>226</u>	<u>226</u>	<u>224</u>	<u>227</u>	
	<u>228</u>	<u>229</u>	<u>233</u>	<u>230</u>	
	<u>225</u>	<u>227</u>	<u>224</u>	<u>228</u>	
Ave.	<u>226.00</u>	<u>226.75</u>	<u>226.00</u>	<u>227.75</u>	(mm)
Set. Den	<u>21.9253</u>	<u>21.9967</u>	<u>22.0457</u>	<u>21.7807</u>	(kg/m ³)
Set. Den	<u>1.369</u>	<u>1.373</u>	<u>1.376</u>	<u>1.360</u>	(lb/ft ³)

Settled Density 1.37 (lb/ft³)

Ronald S. Sevin
Reviewed by:

06-29-07
Date:

The results in this report apply only to the specimen tested.



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Critical Radiant Flux (Gas) Test Report

Test Number: RD071845CR

Date of Test: May 28, 2007

Specimen Number: 1028070523-3

Date of Manufacture: May 17, 2007

Description of test specimen: Applegate-PA; Stabilized Cellulose Insulation; Blown Using a Krendl Machine and Conditioned for > 72 hours at 69.8 +/- 3.6°F and 50 +/- 5% RH

Test Method: ASTM C 739-05, Section 10, "Specification for Cellulosic Fiber Loose-Fill Thermal Insulation" and ASTM E 970, "Test Method for Critical Radiant Flux of Exposed Attic Floor Using a Radiant Heat Energy Source".

Report prepared for: Applegate-Chambersburg, PA / John Powlison

Density (lb/ft ³)	Length of Burn (cm)	Critical Radiant Flux (W/cm ²)	Pass / Fail
<u>1.01</u>	<u>83.0</u>	<u>0.12</u>	<u>Pass</u>
<u>0.95</u>	<u>84.0</u>	<u>0.12</u>	<u>Pass</u>
<u>0.98</u>	<u>77.5</u>	<u>0.14</u>	<u>Pass</u>

The average CRF is 0.13 W/cm²
The standard deviation is 0.01
The coefficient of variation for repeatability is 7.69 %

Ronald S. Seale
Reviewed By:

06-29-07
Date:

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Smoldering Combustion Test Report

Test Number: RD071919SC

Date of Test: June 06, 2007

Specimen Number: 1028070523-3

Date of Manufacture: May 17, 2007

Description of test specimen: Applegate-PA; Stabilized Cellulose Insulation ; Blown Using a Krendl Machine and Conditioned for > 72 hours at 69.8 +/- 3.6°F and 50 +/- 5% RH; Tested at 1.37 PCF

Test Method: ASTM C 739-05, Section 14, "Specification for Cellulosic Fiber Loose-Fill Thermal Insulation."

Report prepared for: Applegate-Chambersburg, PA / John Powlison

Initial Weight (grams)	Final Weight (grams)	% loss	Pass / Fail
<u>89.40</u>	<u>88.90</u>	<u>0.56</u>	<u>Pass</u>
<u>89.70</u>	<u>89.40</u>	<u>0.33</u>	<u>Pass</u>
<u>89.40</u>	<u>89.10</u>	<u>0.34</u>	<u>Pass</u>

Ronald S. Swain
Reviewed By:

06-29-07
Date:

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P.O. Box 2400
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Corrosiveness Test Report

Test Number: RD071920CO

Date of Test: June 06-20, 2007

Specimen Number: 1028070523-3

Date of Manufacture: May 17, 2007

Description of test specimen: Applegate-PA; Stabilized Cellulose Insulation; Blown Using a Krendl Machine and Conditioned for > 72 hours at 69.8 +/- 3.6°F and 50 +/- 5% RH

Test Method: ASTM C 739-03, Section 9, "Specification for Cellulosic Fiber Loose-Fill Thermal Insulation."

Report prepared for: Applegate-Chambersburg, PA / John Powlison

Coupon:	Pass / Fail	Comments:
Aluminum	<u>Pass</u>	<u>No holes or perforations.</u>
Copper	<u>Pass</u>	<u>No holes or perforations.</u>
Steel	<u>Pass</u>	<u>No holes or perforations.</u>

Ronald S. Seaman
Reviewed By:

06-29-07
Date:

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P.O. Box 2400
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pH Test Report

Test Number: RD071922PH

Date of Test: June 04, 2007

Specimen Number: 1028070523-3


Date of Manufacture: May 17, 2007

Description of test specimen: Applegate-PA; Stabilized Cellulose Insulation; Blown Using a Krendl Machine and Conditioned for > 72 hours at 69.8 +/- 3.6°F and 50 +/- 5% RH

Test Method: ASTM D778, "Test Methods for Hydrogen Ion Concentration (pH) of Paper Extracts (Hot-Extraction and Cold-Extraction Procedure)."

Report prepared for: Applegate-Chambersburg, PA / John Powlison

pH= 6.43


Reviewed By:

06-29-07
Date:

The results in this report apply only to the specimen tested.