



P.O. Box 2400
 Cookeville, Tennessee 38502-2400
 Phone: 931-372-8871
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Critical Radiant Flux (Gas) Test Report

R&D Test Number: RD071048CR

Date of Test: December 21, 2006

Specimen Number: 1122061214-1

Date of Manufacture: November 21, 2006

Description of test specimen: Hamilton; Thermolok Loose Fill Cellulose; 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: Hamilton Manufacturing, Inc. / Christy Hamilton Eames

Density (lb/ft ³)	Length of Burn (cm)	Critical Radiant Flux (W/cm ²)	Pass / Fail
<u>1.34</u>	<u>68.0</u>	<u>0.18</u>	<u>Pass</u>
<u>1.38</u>	<u>76.5</u>	<u>0.14</u>	<u>Pass</u>
<u>1.33</u>	<u>74.5</u>	<u>0.15</u>	<u>Pass</u>

The average CRF is 0.16 W/cm²

The standard deviation is 0.02.

The coefficient of variation for repeatability is 12.5 %.

Raymond A. Quinn
 Reviewed By:

01-21-07
 Date:

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



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Design Density Test Report

R&D Test Number: RD0710461D1

Date of Test: December 20, 2006

Specimen Number: 1122061214-1

Date of Manufacture: November 21, 2006

Description of test specimen: Hamilton; Thermolok Loose Fill Cellulose; Blown Using a Krendl Machine and Conditioned > 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: Hamilton Manufacturing Inc. / Christy Hamilton Eames

	Test 1	Test 2	Test 3	Test 4	
Wt.	<u>99.40</u>	<u>99.80</u>	<u>99.30</u>	<u>99.30</u>	(grams)
Area	<u>0.018385</u>	<u>0.018385</u>	<u>0.018385</u>	<u>0.018385</u>	(m ²)
Depth	<u>224</u>	<u>220</u>	<u>220</u>	<u>218</u>	(mm)
	<u>230</u>	<u>222</u>	<u>225</u>	<u>225</u>	
	<u>233</u>	<u>223</u>	<u>228</u>	<u>228</u>	
	<u>226</u>	<u>221</u>	<u>220</u>	<u>221</u>	
Ave.	<u>228.25</u>	<u>221.50</u>	<u>223.25</u>	<u>223.00</u>	(mm)
Set. Den	<u>23.6871</u>	<u>24.5072</u>	<u>24.1932</u>	<u>24.2204</u>	(kg/m ³)
Set. Den	<u>1.479</u>	<u>1.530</u>	<u>1.510</u>	<u>1.512</u>	(lb/ft ³)

Settled Density 1.51 (lb/ft³)

Ronald L. Seader
 Reviewed by:

01-06-07
 Date:

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



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Design Density Test Report

R&D Test Number: RD071046DD

Date of Test: December 20, 2006

Specimen Number: 1122061214-1

Date of Manufacture: November 21, 2006

Description of test specimen: Hamilton; Thermolok Loose Fill Cellulose; Blown Using a Krendl Machine and Conditioned > 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: Hamilton Manufacturing Inc. / Christy Hamilton Eames

	Test 1	Test 2	Test 3	Test 4	
Wt.	<u>99.40</u>	<u>99.80</u>	<u>99.30</u>	<u>99.30</u>	(grams)
Area	<u>0.018385</u>	<u>0.018385</u>	<u>0.018385</u>	<u>0.018385</u>	(m ²)
Depth	<u>224</u>	<u>220</u>	<u>220</u>	<u>218</u>	(mm)
	<u>230</u>	<u>222</u>	<u>225</u>	<u>225</u>	
	<u>233</u>	<u>223</u>	<u>228</u>	<u>228</u>	
	<u>226</u>	<u>221</u>	<u>220</u>	<u>221</u>	
Ave.	<u>228.25</u>	<u>221.50</u>	<u>223.25</u>	<u>223.00</u>	(mm)
Set. Den	<u>23.6871</u>	<u>24.5072</u>	<u>24.1932</u>	<u>24.2204</u>	(kg/m ³)
Set. Den	<u>1.479</u>	<u>1.530</u>	<u>1.510</u>	<u>1.512</u>	(lb/ft ³)

Settled Density 1.51 (lb/ft³)

Ronald L. Seader
 Reviewed by:

01-26-07
 Date:

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