



**PERFORMANCE TEST REPORT**

**Rendered to:**

**THE INTELLECTUAL GORILLA GmbH**

**PRODUCT: Fiber Reinforced Cement Based Insulation Board**

**Report No.: F4459.04-106-31**

**Report Date: 03/02/16**

**Test Record Retention Date: 01/14/20**



## PERFORMANCE TEST REPORT

Rendered to:

THE INTELLECTUAL GORILLA GmbH  
Bahnhofstrasse 42 Suite 6/70  
Entlebuch, 6160 Switzerland

Report No.: F4459.04-106-31

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**Product:** Fiber Reinforced Cement Based Insulation Board

**Project Summary:** Architectural Testing, Inc., an Intertek company ("Intertek-ATI"), was contracted by The Intellectual Gorilla GmbH to evaluate the density of a fiber-reinforced, cement-based insulation board. The product description, test procedures, and test results are reported herein. The average test results are displayed in the table below.

### Average Test Results

Test	Sample ID	Results
Density	#4-#8	19.5 lb/ft <sup>3</sup>

**Test Method:** The test specimens were evaluated in accordance with the following methods.

*ASTM C303-10, Standard Test Method for Dimensions and Density of Preformed Block and Board-Type Thermal Insulation*

**Product Descriptions:** The fiber-reinforced, cement-based insulation board was submitted to Intertek-ATI by The Intellectual Gorilla GmbH and consisted of four nominally twelve-inch long by four-inch wide by one-inch thick, and one nominally 8.9-inch square by 1.3 inch thick specimens. The material was tested as-received with the exception of machining the smaller test specimens from the pieces. Refer to the product description photos in Appendix A.

**Test Procedures and Test Results:** The testing procedures and results obtained from testing are reported as follows. All conditioning of test specimens and test conditions were at standard laboratory conditions of 70 ±2°F and 50 ±5% relative humidity. The material was not dried prior to testing. Refer to the test related photos in Appendix A.

### Density Determination

The density was determined by measuring the volume and weight of each of the insulation samples #4 through #8. The thickness was measured utilizing a Mahr Digital Caliper (ICN: 65366) in each of the four corners, one inch from each edge; the length was measured in two locations, one inch from each long edge; and the width was measured in two locations, one inch from each short edge. The weight of each sample was measured in a Mettler Toledo Balance (ICN: 004473). The test results are displayed in the tables below.

#### Density Measurement Results

Sample ID	Width (in)		Length (in)		Thickness (in)			
	#4	3.9225	3.9285	11.9063	11.9063	0.9680	0.9485	0.9745
Average: 3.9255		Average: 11.9063		Average: 0.9603				
#5	3.9280	3.9390	11.9063	11.9063	0.9470	0.9830	0.9410	0.9615
	Average: 3.9335		Average: 11.9063		Average: 0.9581			
#6	3.9275	3.9215	11.9063	11.9063	0.9715	0.9785	0.9715	1.0100
	Average: 3.9245		Average: 11.9063		Average: 0.9829			
#7	3.9215	3.9255	11.9063	11.9063	0.9490	0.9760	1.0140	0.9905
	Average: 3.9235		Average: 11.9063		Average: 0.9824			
#8	8.8750	8.8438	8.8438	8.8125	1.2945	1.2890	1.3650	1.3160
	Average: 8.8594		Average: 8.8282		Average: 1.3161			

#### Density Test Results

Sample ID	Weight (lb)	Density (lb/in <sup>3</sup> )	Density (lb/ft <sup>3</sup> )
#4	0.5395	0.0120	20.7721
#5	0.4840	0.0108	18.6386
#6	0.4855	0.0106	18.2673
#7	0.5365	0.0117	20.2017
#8	1.1735	0.0114	19.6996
Average		0.0113	19.5159



Intertek-ATI will service this report for the entire test record retention period. Test records that are retained such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation will be retained by Intertek-ATI for the entire test record retention period.

Results obtained are tested values and were secured using the designated test methods. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimens tested. This report may not be reproduced, except in full, without the written approval of Intertek-ATI.

For INTERTEK-ATI:

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JAK:jmb/kf

Attachments (pages)      This report is complete only when all attachments listed are included.  
Appendix A - Photographs (3)



### Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	03/02/16	N/A	Original report issue



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## **APPENDIX A**

### **Photographs**



**Photo No. 1**  
**Sample #4 Identification**



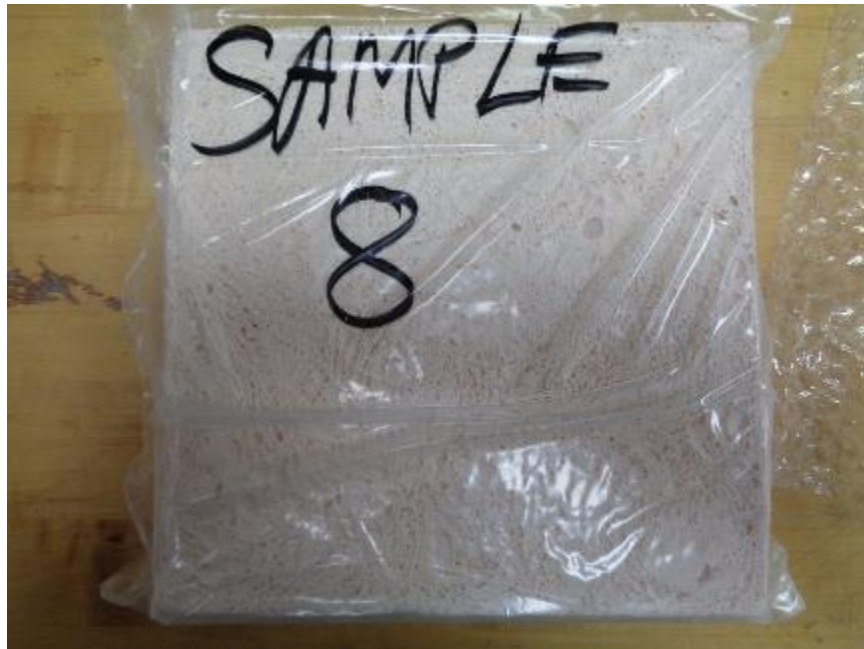
**Photo No. 2**  
**Sample #5 Identification**



**Photo No. 3**  
**Sample #6 Identification**



**Photo No. 4**  
**Sample #7 Identification**



**Photo No. 5**  
**Sample #8 Identification**