



TEST REPORT

CLIENT: Panasonic
15317 NE 90th Street
Redmond, WA 98052

Attn. Chris McBride

Test Report No: 654:026335	Date: September 11, 2009
-----------------------------------	---------------------------------

SUBJECT: Flammability Testing of Cement Cubes

SAMPLE ID: Sample identified as "Hollow Core" was entered into our receiving system on 9/04/09 in good condition. The samples were described by the manufacturer as the following:

- **Sample Description: Four Fiber Cement Cubes for Testing**
- **Sample / Style Number: Hollow Core**

TEST REQUESTED: The submitted sample was tested in accordance with the procedures outlined in ASTM E136-09, "Standard Test Method for Behavior of Materials in a Vertical Tube Furnace of 750°C".

RESULTS: Results can be found on the following pages.

DATE TESTED: 9/10/09 – 9/11/09

CONCLUSION: The submitted sample complies with the requirements as specified in ASTM E136-09

**SIGNED FOR AND ON BEHALF OF
SGS U.S. TESTING COMPANY INC.**

KSM

Terry Hurst
Engineering Technician / Test Operator

J. Brian McDonald
Fire Technology Department Manager

This report is issued by SGS U.S. Testing Company Inc. under its General Conditions for Testing Services, as printed on reverse side. SGS U.S. Testing's responsibility under this report is limited to proven negligence and will in no case be more than the amount of the testing fees. Except by special arrangement, samples are not retained by SGS U.S. Testing for more than 30 days. The results shown on this test report refer only to the sample(s) tested unless otherwise stated, under the conditions agreed upon. Anyone relying on this report should understand all of the details of the engagement. Neither the name, seals, marks nor insignia of SGS U.S. Testing may be used in any advertising or promotional materials without the prior written approval of SGS U.S. Testing. The test report cannot be reproduced, except in full, without prior written permission of SGS U.S. Testing Company Inc.



Client: Panasonic
Report No.: 654:026335

Results

SAMPLE ID: Fiber Cement Cubes for Testing – Hollow Core

Specimen	Furnace Temperature (°F)	Maximum Surface Thermocouple (°F)	Maximum Interior Thermocouple (°F)	Weight Loss (%)
1	1382	1300	1372	18.3
2	1382	1342	1329	19.5
3	1382	1274	1330	18.4
4	1382	1292	1335	17.8

OBSERVATIONS: The samples had discoloration after testing, changing to a lighter shade of grey. No smoke or flames were observed during testing.

REQUIREMENTS: Criteria: When the weight loss of the specimen is 50% or less the temperature of the surface and interior thermocouples does not, at any time during the test, rise more than 54°F above the furnace air temperature (1382°F), there shall be no flaming from the specimen after the first 30 seconds. Also, when the weight loss of the specimen during testing exceeds 50%, the recorded temperature of the surface and interior thermocouples do not at any time during the test rise above the furnace air temperature at the beginning of the test, and there is no flaming of the specimen.

Specimen	Original Weight (g)	Final Weight (g)
1	82.009	67.029
2	83.631	67.301
3	82.740	67.481
4	82.216	67.610

End of Report