

Force Engineering & Testing, Inc.

2405 A South Houston Ave

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State Of Florida Co.A. 26778

November 10, 2007

To Whom It May Concern:

I have reviewed ASTM E 84-01 and compared it to ASTM E84-03 and ASTM E 84-05 and certify the following observations:

1. Scope - No Change
2. Referenced Documents:
 - 84-03: No Change
 - 84-05: Added ASTM E 136; E 2231
3. Terminology: No Change
4. Significance and Use: No Change
5. Test Apparatus: No Change
6. Test Specimens:
 - 84-03: No Change
 - 84-05: Width of Specimen (Between 20 and 24")
 - 84-05: Length: 24ft + 12" - 6"
 - 84-05: Thickness: Maximum 4"
 - 84-05: Added Para 6.6 - *When the overall length of the test specimen exceeds 24 feet, butt one end of the test specimen against the end of the exhaust end of the fire test chamber and continue installation of the specimen toward the gas burner.*
 - 84-05: Added Para 6.7 - *When the overall length of the test specimen is 24 feet or less, provide a 1 in. overlap of the steel plate at the upstream end with one end of the test specimen and continue installation of the specimen toward the exhaust end.*
 - 84-05: Added Para 6.8 - *In addition to the above provisions, for preparing and mounting pipe and duct insulation materials, Practice E 2231 shall be used. For all other products refer to Appendix XI for mounting guidance.*
7. Calibration:
 - 84-03: No Change
 - 84-05: Added Para 7.11 - *A calibration for red oak and for fiber-cement board shall be performed after major repairs, such as re-bricking, have been made. If there have been no repairs, a new calibration for both red oak and fiber-cement board shall be conducted after 200 tests, or 12 months, whichever comes first.*
 - 84-05: Added Para 7.12- *The red oak flame calibration data shall be used to confirm performance indicated in 7.8, that the flame reaches the end of the specimen at a time no less than 5 min. 15 sec. and no more than 5 min. 45 sec. from the start of the test. In the event that the flame reaches the end of the specimen outside these time limits, make adjustments and recalibrate until the correct time is achieved.*

7.
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84-05: Added Para 7.13- *Add the data from the new smoke calibration to a data set containing the last four calibrations in order to maintain a running average of at least five calibrations. This average of smoke developed index (SDI) data shall provide the calibration data to be used to adjust the settings for the equipment and to establish areas for calculation of the SDI When fewer than five calibrations have been performed on new equipment, average the available number of calibrations to achieve the running average.*

- 8. Procedure: No Change
- 9. Interpretation of Results: No Change
- 10. Analysis of Products of Combustion: No Change
- 11. Report: No Change
- 12. Precision and Bias: No Change
- 13. Annex A1 & A2: No Change

84-05: Added Annex A3- *Fiber-Cement Board Requirements*

- 14. Appendixes (Non-mandatory Information)

Based on my review of all three documents, ASTM E 84-05 has clarified in more specific terms the specimen length, width, and limited the thickness to 4". They have also added specific requirements for calibration that was left up to the discretion of the test labs. It is my opinion that the test data provided by Advance Platinum Technologies Inc. for their product approval is in compliance with the Florida Building Code 2004.

