

ALL NOISE CONTROL

VTEC #100-2179

ASTM E84

VI. PREPARATION AND CONDITIONING OF TEST SAMPLES

Three or four sections are generally used in the preparation of a complete test specimen that is 20.5" wide and 24' long. Materials 8' in length may be tested by using three sections 2Q. 5" wide. A 14" length of uncoated 16 gauge steel sheet is used to make up the remainder of the test specimen; it is placed at the fire end of the test chamber. Test specimens are conditioned at a controlled temperature of 73.4°F ($\pm 5^\circ\text{F}$) and a controlled relative humidity of 50 \pm 5 percent.

VII. MATERIAL TESTED

- 1) Supplier: All Noise Control
- 2) Burn Number: 1
- 3) Average Thickness (in.): 1.250
- 4) Average Weight (psf): 0.254
- 5) Average Groove Depth: N/A
- 6) Product Description: ANC-600 Baffles 2" thick.
1.6 pcf core, PVC facing
- 7) Color: White
- 8) Surface: Face side exposed
- 9) Sample Selection: Supplier
- 10) Date of Selection: May 2005
- 11) Material Description J3y: Supplier
- 12) Method of Mounting: Supported on 'A" diameter steel rods spaced
2 feet on center and
- 13) Sample conditioning (days): 14 2" hexagonal wire mesh.

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VIII. TEST CONDITIONS AND DATA

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|---|-----------|
| 1) Specimen Preheat Time (min) : | 2:00 |
| 2) Tunnel Brick Temp . (deg . F) : | 104 |
| 3) Ignition Time (seconds) : | 8 |
| 4) Time to End of Tunnel
or flamefront Distance (min.) : | 3' 0 0:15 |
| 5) Time - Distance Curve Area (min./ft.) : | 28.7 |
| 6) Fuel and Temperature | |
| a) Fuel (cu . ft ./min.) : | 4.834 |
| b) Max. vent End Temp (deg . F) : | 580 |
| c) Time to Max. Temp . (min .) : | 10:00 |
| 7) After Flaming: | No |

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IX . TEST RESULT

Test results calculated on the basis of the areas under the curves of flame spread distance, temperature, and smoke density vs time are provided in the table below for calibration materials and for:

ANC-600 Baffles 2" thick
1.6 pcf core
PVC Facing

Material Description

	<u>Flame spread Index</u>	<u>Smoke Developed Index</u>
High Denisty Inorganic Reinforced Cement Board	0	0
Red Oak Flooring	100	100
SR-100 Baffles	15	20

OBSERVATIONS: Melting and dripping. Burned through face to 20 feet.

REMARKS: None.

The sample consisted of 6 pieces, 48 inches long, laid end-to- end

CONCLUSIONS: Based upon one test, the flame spread Indes, calculated according to ASTM E84, meets Class A (Class I) - 25 or under flame spread.



Neil Schultz
Executive Director



Amirudin Rahim
Technical Director