

VI. PREPARATION AND CONDITIONING OF TEST SAMPLES

Three or four sections are generally used in the preparation of a complete test specimen that is 205" wide and 24' long. Materials 8' in length may be tested by using three sections 20.5" 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 by: Supplier
- 12) Method of Mounting: Supported on 'A" diameter steel rods spaced
2 feet on center and
2" hexagonal wire mesh.
- 13) Sample conditioning (days): 14

VIII. TEST CONDITIONS AND DATA

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' @ 0:15
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

IX. TEST RESULTS

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

<u>Material Description</u>	<u>Flame Spread Index</u>	<u>Smoke Developed Index</u>
High Density Inorganic Reinforced Cement Board	0	0
Red Oak Flooring	100	100
<u>SR-100 Baffles</u>	<u>15</u>	<u>20</u>


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 Index, calculated according to ASTM E84, meets Class A (Class I) - 25 or under flame spread.


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