SUMMARY OF TEST PROCEDURE (continued)

Upon ignition of the gas burners, the flame spread distance is observed and recorded every second. Flame spread distance versus time is plotted. Calculations ignore all flame front recessions and the Flame Spread Values (FSV) are determined by calculating the total area under the curve for each test sample. If the total area under the curve (AT) is less than or equal to 29.7 m·min, FSV = $1.85 \cdot AT$; if greater, FSV = 1640/(59.4-AT).

The Smoke Developed Value is determined by comparing the area under the obscuration curve for the test sample to that of inorganic reinforced cement board and red oak, established as 0 and 100, respectively. The Smoke Developed Value (SDV) is determined by dividing the total area under the obscuration curve by that of red oak and multiplying by 100.

TEST RESULTS

Test	Approx. Time to Ignition (s)	Maximum Flame Front Distance (m)	Time to Maximum Flame Front (s)	Flame Spread Value (FSV)	Smoke Developed Value (SDV)
1	8	0.20	20	4	33
2	7	0.33	22	6	46
3	7	0.34	442	2	54
Average:				4	45
Rounded Average Flame Spread Rating (FSR):				5	-
Rounded Average Smoke Developed Classification (SDC):				-	45

SAMPLE: "Soft Tone Acoustic Panel"

Observations of Burning Characteristics

The specimens ignited approximately 7 to 8 seconds after exposure to the test flame. Melting, dripping, and flaming dripping behavior was observed. Material that dripped to the floor of the apparatus continued to produce smoke.

Results Interpretation

CAN/ULC-S102-10 contains no performance criteria of its own. The National Building Code of Canada (NBCC) or other jurisdictional documentation should be referenced to determine the FSR and/or SDC performance criteria that is applicable to the product under test for the intended application.

Junia Willer

Francis Williams, Technician. If to

lan Smith, Technical Manager.

02-103

Note: This report and service are covered under Exova Canada Inc. Standard Terms and Conditions of Contract which may be found on the Exova website (www.exova.com), or by calling 1-866-263-9268.