

Certificate of Compliance – VOC Emissions

MDR-200, Foamed-In-Place Insulation

Icynene Inc

Icynene Inc selected a sample representative of its MDR-200 product manufactured in Mississauga, Ontario and submitted it for testing on August 25, 2010. Berkeley Analytical measured and evaluated the emissions of volatile organic compounds (VOCs) from this sample according to California Department of Health Services (CDHS) *Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers* (CA/DHS/EHLB/R-174, 2004, including 2004 Addenda; also known as, chamber testing portion of CA Section 01350) and ASTM Standard Guide D 5116-06. Chemical sampling and analysis were performed following U.S. EPA Compendium Methods TO-1 and TO-17 and ASTM Standard Method D 5197-09.

Calculations were performed with the following classroom exposure parameters to project the concentrations of VOCs of concern resulting from the use of the product. These parameters are taken from California Department of Public Health CDPH/EHLB/Standard Method V1.1, 2010. The results of the test and the calculated concentrations for the classroom are presented in Berkeley Analytical laboratory report, 354-006-01A-Sep2910.

Exposure Scenarios


Standardized Environment	Room Volume (m ³)	Area Specific Air Flow Rate (m/h)	Ceiling Plus Wall Insulation Area (m ²)
Classroom	231	1.04	183.8

Summary of test results according to the CA DHS Standard Practice guidelines:

- Predicted concentrations of all VOCs of concern including formaldehyde were below the guideline concentrations.

Based on these results, the tested product sample meets the VOC emission requirements for use in classroom environment as defined in the CA DHS Standard Practice. Thus, the testing requirements are met to qualify the product as a low-emitting material in the Collaborative for High Performance Schools rating system (CHPS Designed & CHPS Verified).

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