



AIR QUALITY SCIENCES, INC.

Business Solutions for Healthy Indoor Environments

ENVIRONMENTAL CHAMBER REPORT FOR CUSHION WITH ALL INDIVIDUAL VOLATILE COMPOUNDS IDENTIFIED

PREPARED FOR: SOUNDPROOFING COMPANY

Product Description:	Serena® Isolation Mat Flooring; 3mm, Natural, Full Compression (one sided area =0.0361m ²)
AQS Sample Identification:	AQS11536-010AA
Chamber Test Period:	10/20/03 - 10/21/03
Environmental Chamber:	SB4
Product Loading:	0.43m ² /m ³
Test Conditions:	1.00 ACH 50.0% RH ± 5.0% RH 23.0°C ± 2.0°C

Emission Factors at 24 Elapsed Exposure Hours (mg/m²·hr)

Target Analytes	AQS Measured Values	IAQ Guidelines or Other Criteria
TVOC	0.325	1.0 mg/m ² ·hr
4-PCH	nd	0.30 mg/m ² ·hr
Butylate Hydroxytoluene	0.015	0.05 mg/m ² ·hr
Formaldehyde	0.004	0.05 mg/m ² ·hr
Benzothiazole	0.072	---
Benzene, chloro	0.135	---
2-Pentanone, 4-methyl (Methylisobutyl ketone, MIBK)	0.053	---

AQS-006 Standard Test Methodology for Determining Volatile Organic Compound Emission Factors from Carpet and Associated Materials under Defined Test Conditions Using Small Environmental Chamber. Carpet Policy Dialogue Method accepted September, 1991.

¹ Criteria levels currently being used by the carpet industry's voluntary labeling of products.

² Default criteria for flooring materials by Tucker of USEPA, Indoor Air '90,1990.

³ Based on 0.1 ppm guideline of World Health Organization

"nd" denotes non-detectable (<15.0 µg/m²·hr for formaldehyde, < 2.0 µg/m²·hr for TVOC and other VOCs)

*Indicates NISPT/EPA/NIH best library match only.

Individual volatile organic compounds are calibrated relative to toluene.

