

#### **Title: VOC Test Results**

#### Product: Envirocoustic Wood Wool (1" Small Strand, uncoated)

Application: Acoustical Absorption Testing Standard: CDPH Standard Method V1.2-2017 Test Date: September 28, 2018 to October 12, 2018 Why this test: This test identifies volatile organic compounds (VOCs), such as formaldehyde, released into the air by products. Samples are put into an environmental chamber and the air is tested at 11-, 12- and 14-days. VOC levels are then used to predict office and school room concentrations and then compared to maximum allowable levels.

Test Result Summary:

MODELING SCENARIO	RESULT (PASS/FAIL)	TVOC (mg m <sup>-3</sup> )
Private Office (PO)	PASS	0.1
School Classroom (SC)	PASS	< 0.1

Test ID: 103632425GRR-003b

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# ASI TEST REPORT

**SCOPE OF WORK** Standard Method Version 1.2 for CDPH 01350 on Cementitious Wood Fiber Board

REPORT NUMBER 103632425GRR-003b

**ISSUE DATE** 30-October-2018

PAGES 13

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#### **TEST REPORT FOR ASI**

Report No.: 103632425GRR-003b Date: 30-October-2018 P.O.: 00065831

#### **SECTION 1**

#### **CLIENT INFORMATION**

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#### SUMMARY AND CONCLUSION

Test Method:	Standard Method Version 1.2 for CDPH 01350
Modeling Scenario:	Private office (PO) and school classroom (SC)
Method Deviations:	Testing performed without deviation unless noted below. The
	acetaldehyde blank was above 2.0 $\mu g$ m <sup>-3</sup> . There is not
	expected to be an effect on testing.

#### **DESCRIPTION OF SAMPLES**

Manufacturer / Location	
Product Name	Cementitious Wood Fiber Board
Product Number	Not Specified
Date of Manufacture	25-September-2018
Date of Collection	25-September-2018
Date of Shipment	25-September-2018
Date Received by Lab	27-September-2018
Date of Test Start and Duration	28-September-2018 / 336 hours
As Received Sample Condition	Good Condition
Lab Sample ID	GRR1809270014

#### WORK REQUESTED/APPLICABLE DOCUMENTS

VOC Emissions Analysis:	CDPH Standard Method v1.2
Intertek Quote:	Qu-00901125 and Qu-00919901

#### **TEST RESULTS**

MODELING SCENARIO	RESULT (PASS/FAIL)	TVOC (mg m <sup>-3</sup> )
Private Office (PO)	PASS	0.1
School Classroom (SC)	PASS	< 0.1

#### SAMPLE DISPOSITION

At the completion of testing, samples were disposed of in a routine manner.

#### **CDPH STANDARD METHOD V1.2**

Date Received:	27-September-2018
Dates Tested:	28-September-2018 to 12-October-2018

#### **DESCRIPTION OF SAMPLES:**

Part Description:	Acoustical Panel for Absorption
Material Submitted:	Four (4) Wood and Cement Panels

#### **ACCEPTANCE CRITERIA:**

Referencing:	CDPH Standard Method v1.2, Table 4.1
	LEED v4 - Low Emitting Materials
LEED v4 - TVOC Ranges:	≤ 0.5 mg m <sup>-3</sup>
	$0.5 \text{ to } 5.0 \text{ mg m}^{-3}$
	≥ 5.0 mg m <sup>-3</sup>

#### **TEST NOTES OR DEVIATIONS:**

Testing performed without deviation unless noted below.

#### **TEST SUMMARY:**

The emissions testing was performed according to "Standard Method for the Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chambers Version 1.2". A photograph of the tested sample is included herein. The sample was cut to an appropriate size to achieve the desired loading factor. The edges were sealed with aluminized tape. The sample was placed in conditioning in the chamber for 10 days with top and bottom surfaces exposed, before testing was initiated. Air samples were collected prior to the sample being placed in the test chamber (0 hours) and at 264, 288, and 336 hours after placement in the test chamber. Samples analyzed for individual VOCs and TVOC were collected on multi-sorbent tubes containing glass wool, Tenax TA 35/60 and Carbograph 5 TD 40/60. These VOC samples were analyzed by thermal desorption-gas chromatography/mass-spectrometry, TD-GC/MS. TVOC was calculated through integration of the chromatogram from n-pentane through n-heptadecane using toluene as a surrogate. Individual VOCs were calculated using calibration curves based on pure standards unless otherwise noted. Samples analyzed for low molecular weight aldehydes were collected on cartridges treated with 2,4-dinitrophenylhydrazine (DNPH). Low molecular weight aldehydes were analyzed using high performance liquid chromatography, HPLC.

#### **RESULTS:**

#### Table 1: Sample and Chamber Conditions during Test Period

PARA	METER	SYMBOL	VALUE	UNITS
Cample	Length	-	0.246	m
Sample	Width	-	0.250	m
Dimensions	Thickness	-	-	m
Exposed Sample	Surface Area	A	0.062	m²
Chamber Volume	е	V	0.116	m <sup>3</sup>
Chamber Loading	g Factor	L	0.53	m <sup>2</sup> m <sup>-3</sup>
Inlet Air Flow Rat	te	Q	0.116	m <sup>3</sup> h <sup>-1</sup>
Air Change Rate		N <sub>ACH</sub>	1.00	h <sup>-1</sup>
Area Specific Flo	w Rate	$q_{A}$	1.88	m h <sup>−1</sup>
Chamber Pressu	re (Range)	Р	18.1 (16.4-20.8)	Ра
Average Temper	ature (Range)	Т	23.0 (22.9-23.1)	°C
Average Humidit	y (Range)	RH	50.0 (47.9-51.4)	% RH
Testing Duration		t	336	h

#### Table 2: Test chamber background VOC concentrations in $\mu g \ m^{-3}.$

COMPOUND	CAS No.	Cio
Formaldehyde	50-00-0	0.8
ТVОС	-	4.0

#### Table 3: Test chamber TVOC and formaldehyde concentrations in $\mu g m^{-3}$ .

COMPOUND	CAS No.	264 H	288 H	336 H
Formaldehyde	50-00-0	1.6	1.3	1.7
туос	-	30.3	26.3	28.0

#### Table 4: Test chamber TVOC and formaldehyde emission factors in $\mu g\ m^{-2}\ h^{-1}.$

COMPOUND	CAS No.	264 H	288 H	336 H
Formaldehyde	50-00-0	1.5	1.0	1.6
тиос	-	49.6	42.1	45.2

\*BB – Below Blank

Individual emitted VOCs identified above the lower limits of quantitation are listed in Table 7; VOCs which are listed on chemical of concern lists or have CRELs are indicated.

The measured chamber concentrations and corresponding emission factors of identified individual VOCs and TVOCs are listed in Table 8.

In Tables 6, 8 and 9, emission factors were calculated using equation 3.1 in CDPH Standard Method V1.2:

$$EF_{Ai} = \frac{Q \times (C_{it} - C_{i0})}{A_C}$$

The inlet flow rate, Q (m<sup>3</sup> h<sup>-1</sup>), is the measured flow rate of air into the chamber. The chamber concentration,  $C_{it}$  (µg m<sup>-3</sup>), is the concentration of a target VOC<sub>i</sub>, formaldehyde and other carbonyl compounds measured at time *t*. The chamber background concentration,  $C_{i0}$  (µg m<sup>-3</sup>), is the corresponding concentration measured with the chamber operating without a test specimen. The exposed projected surface area of the test specimen in the chamber,  $A_C$  (m<sup>2</sup>), is determined from the measurements made at the time of specimen preparation.

 Table 5: VOCs detected above lower limits of quantitation in air samples at 336 hours.

voc	CAS No.	SURROGATE <sup>1</sup>	CREL <sup>2</sup> (µg m <sup>-3</sup> )	CARB TAC <sup>3</sup>	PROP 65 LIST⁴
Formaldehyde	50-00-0		9	Yes	Yes
Acetaldehyde	75-07-0		140	Yes	Yes

<sup>1</sup>Indicates which non-listed VOCs were quantified using surrogate compounds, all other compounds were quantified using pure compounds.

<sup>2</sup>Chronic Reference Exposure Level (CREL) as defined by California Office of Environmental Health Hazard Assessment.

<sup>3</sup>Substance is listed on California Air Resource Board's (CARB) Toxic Air Contaminate (TAC) identification list.

<sup>4</sup>Substance known to the state of California to cause cancer or reproductive toxicity according to California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).

## Table 6: Measured chamber concentrations and corresponding emission factors of individual VOCs listed in Table 4-1 of CDPH 01350 V1.2. at 336 hours.

		CDFH 01350 V1.2. at 550 HO	
voc	CAS No.	CHAMBER CONCENTRATION (µg m <sup>-3</sup> )	EMISSION FACTOR (µg m <sup>-2</sup> h <sup>-1</sup> )
Formaldehyde	50-00-0	1.7	1.6
Acetaldehyde	75-07-0	25.6	42.7
Vinyl acetate	108-05-4	< 0.4	< 0.7
Epichlorohydrin	106-89-8	< 0.2	< 0.4
Ethanol, 2-methoxy-, acetate	110-49-6	< 0.3	< 0.6
Isopropyl Alcohol	67-63-0	< 0.2	< 0.3
Ethene, 1,1-dichloro-	75-35-4	< 0.2	< 0.3
Methylene chloride	75-09-2	< 0.3	< 0.5
Carbon disulfide	75-15-0	< 0.5	< 1
Methyl tert-butyl ether	1634-04-4	< 0.5	< 0.9
n-Hexane	110-54-3	< 0.3	< 0.5
Trichloromethane (Chloroform)	67-66-3	< 0.3	< 0.5
Ethanol, 2-methoxy-	109-86-4	< 0.4	< 0.7
Ethane, 1,1,1-trichloro-	71-55-6	< 0.2	< 0.3
Benzene	71-43-2	< 0.3	< 0.5
Carbon Tetrachloride	56-23-5	< 0.2	< 0.4
2-Propanol, 1-methoxy-	107-98-2	< 0.2	< 0.4
Ethylene glycol	107-21-1	< 8	< 15.1
Trichloroethylene	79-01-6	< 0.2	< 0.3
1,4-Dioxane	123-91-1	< 0.2	< 0.3
Ethanol, 2-ethoxy-	110-80-5	< 0.4	< 0.8
Toluene	108-88-3	< 0.2	< 0.4
Formamide, N,N-dimethyl-	68-12-2	< 0.4	< 0.8
Tetrachloroethylene	127-18-4	< 0.2	< 0.3
Benzene, chloro-	108-90-7	< 0.2	< 0.3
Ethylbenzene	100-41-4	< 0.2	< 0.3
	108-38-3,		
Xylene (-m, -p, & -o)	95-47-6 <i>,</i>	< 0.6	< 1.2
	106-42-3		
Styrene	100-42-5	< 0.1	< 0.2
2-Ethoxyethyl acetate	111-15-9	< 0.5	< 0.9
Phenol	108-95-2	< 0.5	< 1
Benzene, 1,4-dichloro-	106-46-7	< 0.1	< 0.2
Isophorone	78-59-1	< 0.2	< 0.3
Naphthalene	91-20-3	< 0.2	< 0.4

## Table 7: Measured chamber concentrations and corresponding emission factors of identified individual VOCs and TVOC at 336 hours.

voc	CAS No.	CHAMBER CONCENTRATION (µg m <sup>-3</sup> )	EMISSION FACTOR (μg m <sup>-2</sup> h <sup>-1</sup> )
TVOC	-	28.0	45.2

#### **Exposure Scenario Modeling and Evaluation:**

Estimated building concentrations for the private office and school classroom scenarios were calculated using equation 3.2a of CDPH Standard Method V1.2:

$$C_{Bi} = \frac{EF_{Ai} \times A_B}{Q_B}$$

The area specific emission rate  $EF_A$  at 336 hours (14 days) total exposure time is multiplied by the ratio of the exposed surface area of the installed material in the building,  $A_B$  (m<sup>2</sup>), to the flow rate of outside ventilation air,  $Q_B$  (m<sup>3</sup> h<sup>-1</sup>).

The modeling parameters used for private office and school classroom scenarios are listed in Table 10.

The modeled concentrations of identified individual VOCs for private office and school classroom scenarios are listed in Tables 11 & 12. Whether the modeled concentrations meet the maximum allowable concentration requirements specified in Table 4.1 of CDPH Standard Method V1.2 are also indicated.

PARAMETER	SYMBOL	VALUE	UNITS
Exposed Surface Area Installed in <i>Private Office</i> (PO)	A <sub>B</sub>	33.4	m²
Air flow rate of Private Office (PO)	$Q_B$	20.7	m <sup>3</sup> h <sup>-1</sup>
Exposed Surface Area Installed in Classroom (SC)	A <sub>B</sub>	94.6	m²
Air flow rate of Classroom (SC)	Q <sub>B</sub>	191	m <sup>3</sup> h <sup>-1</sup>

#### Table 8: Standard modeling parameters for wallcovering.

			NCENTRATION	CONC.		ULT
VOC	CAS NO.	(μg	m <sup>-3</sup> )	LIMIT	Pass (P)	/Fail (F)
		РО	SC	(µg m⁻³)	РО	SC
Formaldehyde	50-00-0	2.6	0.8	9	Р	Р
Acetaldehyde	75-07-0	68.8	21.1	70	Р	Р
Vinyl acetate	108-05-4	< 1.2	< 0.4	100	Р	Р
Epichlorohydrin	106-89-8	< 0.6	< 0.2	1.5	Р	Р
Ethanol, 2-methoxy-, acetate	110-49-6	< 0.9	< 0.3	45	Р	Р
Isopropyl Alcohol	67-63-0	< 0.6	< 0.2	3,500	Р	Р
Ethene, 1,1-dichloro-	75-35-4	< 0.5	< 0.2	35	Р	Р
Methylene chloride	75-09-2	< 0.9	< 0.3	200	Р	Р
Carbon disulfide	75-15-0	< 1.5	< 0.5	400	Р	Р
Methyl tert-butyl ether	1634-04-4	< 1.5	< 0.5	4,000	Р	Р
n-Hexane	110-54-3	< 0.8	< 0.3	3,500	Р	Р
Trichloromethane (Chloroform)	67-66-3	< 0.9	< 0.3	150	Р	Р
Ethanol, 2-methoxy-	109-86-4	< 1.2	< 0.4	30	Р	Р
Ethane, 1,1,1-trichloro-	71-55-6	< 0.6	< 0.2	500	Р	Р
Benzene	71-43-2	< 0.8	< 0.2	1.5	Р	Р
Carbon Tetrachloride	56-23-5	< 0.6	< 0.2	20	Р	Р
2-Propanol, 1-methoxy-	107-98-2	< 0.7	< 0.2	3,500	Р	Р
Ethylene glycol	107-21-1	< 24.4	< 7.5	200	Р	Р
Trichloroethylene	79-01-6	< 0.5	< 0.2	300	Р	Р
1,4-Dioxane	123-91-1	< 0.5	< 0.1	1,500	Р	Р
Ethanol, 2-ethoxy-	110-80-5	< 1.2	< 0.4	35	Р	Р
Toluene	108-88-3	< 0.6	< 0.2	150	Р	Р
Formamide, N,N- dimethyl-	68-12-2	< 1.2	< 0.4	40	Р	Р
Tetrachloroethylene	127-18-4	< 0.5	< 0.2	17.5	Р	Р
Benzene, chloro-	108-90-7	< 0.5	< 0.2	500	Р	Р
Ethylbenzene	100-41-4	< 0.6	< 0.2	1,000	Р	Р
Xylene (-m, -p, & -o)	108-38-3, 95-47-6, 106-42-3	< 1.9	< 0.6	350	Р	Р
Styrene	100-42-5	< 0.4	< 0.1	450	Р	Р
2-Ethoxyethyl acetate	111-15-9	< 1.5	< 0.5	150	Р	Р
Phenol	108-95-2	< 1.6	< 0.5	100	Р	Р
Benzene, 1,4-dichloro-	106-46-7	< 0.4	< 0.1	400	Р	Р
Isophorone	78-59-1	< 0.5	< 0.1	1,000	Р	Р
Naphthalene	91-20-3	< 0.7	< 0.2	4.5	Р	Р

#### Table 9: Projected concentrations of individual VOCs specified in Table 4-1 of CDPH 01350 V1.2.

VOC	CAS NO.	PROJECTED CO (μg		CONC. LIMIT		sult /Fail (F)
Voc	CAS NO.	РО	SC	(μg m <sup>-3</sup> )	РО	SC
TVOC <sub>Toluene</sub>	-	73.0	22.4	-	-	-

#### Table 10: Projected concentrations of identified non-listed individual VOCs.

#### **PHOTOGRAPHS:**



FACILITIES AND EQUIPMENT: GCMS

	Markes TD-100 Thermal
INSTRUMENTATION USED:	Desorption
INSTRUMENTATION USED.	Agilent 7890A GC
	Agilent 5975C MS
COLUMN USED:	Agilent HP-Ultra 2 (GC)
HPLC	
INSTRUMENTATION USED:	Agilent 1260 Infinity Series
COLUMN USED:	Poroshell 120 EC-C18

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Conor Cook, Resource Specialist	1.91.		Customer Requ	lest for Ce	rtification
· · ·	952-466-8261		ETL Environmental VOC™		
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