

Emission Test Certificate

Friday 13th September 2024

Supplier	CSR Building Products Limited (376 Victoria Street, WETHERILL PARK, NSW 2164, Australia).
Product Name	Woven Image EchoFlex Acoustic Panel.
End use	Commercial Acoustic Panel
Date Tested	August 2024 (Tested by FORAY Laboratories – NATA Accreditation 1231)
Test Method	Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.2: 2017 (Emission testing method for California Specification CA 01350)

Sample and Chamber conditions during the test period:

Temperature	22.9°C ± 0.3°C
Humidity	52% ± 3%
Chamber Volume	50 L
Chamber Flow Rate	0.831 L/min
Chamber Pressure	102.65 kPa
Product Loading	0.64 m ² /m ³
Air Exchange Rate	0.998 hr ⁻¹
Emission Collection Time	1435 min for formaldehyde and aldehydes and 120 min for Thermal Desorption tubes VOCs.
Sample Surface Area	0.032 m ²
the Exposure of sample in the chamber	14 days (336 hours)

Test summary: The air samples were collected from the emission chamber at 336 hours for aldehydes and VOCs. The aldehyde gases were collected on DNPH-treated silica tubes (SKC 226-119) and analysed by Ultra High-Performance Liquid Chromatography (UHPLC). The VOC gases were collected on Tenax TA Thermal Desorption tubes and analysed by ATD-GC-MS as TO-17.

Emission Data:

California Specification CA 01350	Woven Image Echo Flex Acoustic Panel
TVOC Emission Rate Limit: <0.500 mg/m ³	TVOC Emission Rate*: 0.042 mg/m ³
Formaldehyde Emission Rate Limit: <9 µg/m ³	Formaldehyde Emission Rate*: <3 µg/m ³
All other Target CREL VOCs and their emission rate are well below the maximum allowable concentrations in accordance with Table 4-1 of the standard method (please see it in Annex 1 below).	

* The stated result was calculated from an emission rate applied to the Standard Private Office Model (Table 4-4) using a 33.4 m² exposed wall area, a room volume of 30.6 m³, and a ventilation rate of 0.68 hr⁻¹.



Martini dECOFlex Acoustic Panel sample



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Annex 1: TVOC & Target VOC calculated concentration as Table 4-1 from Woven Image Echo Flex Acoustic Panel.

Sample ID	CAS number	Calculated Concentrations* ($\mu\text{g}/\text{m}^3$)
Analyte		171431
TVOC (C ₅ -C ₁₇)	-	42
Acetaldehyde	75-07-0	<3.0
Benzene	71-43-2	<1.6
Carbon disulfide	75-15-0	<1.6
Carbon tetrachloride	56-23-5	<1.6
Chlorobenzene	10-90-7	<1.6
Chloroform	67-66-3	<1.6
1,4-dichlorobenzene	106-46-7	<1.6
1,1-dichloroethene	75-35-4	<1.6
N, N-dimethylformamide	68-12-2	<1.6
1,4-dioxane	123-91-1	<1.6
Epichlorohydrin	106-89-8	<1.6
Ethylbenzene	100-41-4	<1.6
Ethylene glycol	107-21-1	<1.6
Ethylene glycol monomethyl ether	110-80-5	<1.6
Ethyleneglycol monomethyl ether acetate	111-15-9	<1.6
Ethyleneglycol monomethyl ether	109-86-4	<1.6
Ethyleneglycol monomethyl ether acetate	110-49-6	<1.6
Formaldehyde	50-00-0	<3.0
n-hexane	110-54-3	<1.6
Isophorone	78-59-1	<1.6
Isopropanol	67-63-0	<1.6
Methyl chloroform	71-55-6	<1.6
Methylene chloride	75-09-2	<1.6
Methyl t-butyl ether	1634-04-4	<1.6
Naphthalene	91-20-3	<1.6
Phenol	108-95-2	<1.6
Propylene glycol monomethyl ether	107-98-2	<1.6
Styrene	100-42-5	<1.6
Tetrachloroethene	127-18-4	<1.6
Toluene	108-88-3	3.2
Trichloroethylene	79-01-6	<1.6
Vinyl acetate	108-05-4	<1.6
Xylenes (m-, o- & p-)	108-38-3, 95-47-6, 106-42-3	<1.6

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