

# Emission Test Certificate

Monday 18<sup>th</sup> March 2024

<b>Supplier</b>	Woven Image Pty Ltd (37-39 Chard Road, BROOKVALE, NSW, Australia)
<b>Sample Description</b>	EchoPanel, 12 mm thickness, 100% PET (60% Recycled)
<b>Date Tested</b>	March 2024 (Tested by FORAY Laboratories – NATA Accreditation 1231)
<b>Test Method</b>	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:

<b>Temperature</b>	23.2°C ± 0.3°C
<b>Humidity</b>	53% ± 4%
<b>Chamber Volume</b>	50 L
<b>Chamber Flow Rate</b>	0.842 L/min
<b>Chamber Pressure</b>	102.6 kPa
<b>Product Loading</b>	0.67 m <sup>2</sup> /m <sup>3</sup>
<b>Air Exchange Rate</b>	1.01 hr <sup>-1</sup>
<b>Emission Collection Time</b>	1450 min for formaldehyde and aldehydes and 136 min for Thermal Desorption tubes VOCs.
<b>Sample Surface Area</b>	0.033 m <sup>2</sup>
<b>the Exposure of sample in the chamber</b>	14 days (336 hours)

**Test summary:** The air samples were collected from the emission chamber at 336 hours exposure 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 (336 hrs):**

<b>California Specification CA 01350</b>	<b>EchoPanel, 12 mm thickness, 100% PET (60% Recycled)</b>
TVOC Emission Rate Limit: <0.500 mg/m <sup>3</sup>	TVOC Emission Rate*: 0.013 mg/m <sup>3</sup>
Formaldehyde Emission Rate Limit: <9 µg/m <sup>3</sup>	Formaldehyde Emission Rate*: <1 µg/m <sup>3</sup>
<b>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).</b>	

\* The stated result was calculated from an emission rate applied to standard private office room Model (Table 4-2) using an 11.15 m<sup>2</sup> exposed ceiling area, a room volume of 30.6 m<sup>3</sup>, and a ventilation rate of 0.68 hr<sup>-1</sup>.



EchoPanel, 12 mm, 100% PET (60% Recycled).



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**Annex 1: TVOC & Target VOC calculated concentration as Table 4-1 from EchoPanel, 12 mm thickness, 100% PET (60% Recycled).**

Sample ID	CAS number	Calculated Concentrations* ( $\mu\text{g}/\text{m}^3$ )
Analyte		167291
TVOC (C <sub>5</sub> -C <sub>17</sub> )	-	12.6
Acetaldehyde	75-07-0	<1.0
Benzene	71-43-2	<0.5
Carbon disulfide	75-15-0	<0.5
Carbon tetrachloride	56-23-5	<0.5
Chlorobenzene	10-90-7	<0.5
Chloroform	67-66-3	<0.5
1,4-dichlorobenzene	106-46-7	<0.5
1,1-dichloroethene	75-35-4	<0.5
N, N-dimethylformamide	68-12-2	<0.5
1,4-dioxane	123-91-1	<0.5
Epichlorohydrin	106-89-8	<0.5
Ethylbenzene	100-41-4	<0.5
Ethylene glycol	107-21-1	<0.5
Ethylene glycol monomethyl ether	110-80-5	<0.5
Ethyleneglycol monomethyl ether acetate	111-15-9	<0.5
Ethyleneglycol monomethyl ether	109-86-4	<0.5
Ethyleneglycol monomethyl ether acetate	110-49-6	<0.5
Formaldehyde	50-00-0	<1.0
n-hexane	110-54-3	<0.5
Isophorone	78-59-1	<0.5
Isopropanol	67-63-0	<0.5
Methyl chloroform	71-55-6	<0.5
Methylene chloride	75-09-2	<0.5
Methyl t-butyl ether	1634-04-4	<0.5
Naphthalene	91-20-3	<0.5
Phenol	108-95-2	<0.5
Propylene glycol monomethyl ether	107-98-2	<0.5
Styrene	100-42-5	<0.5
Tetrachloroethene	127-18-4	<0.5
Toluene	108-88-3	2.2
Trichloroethylene	79-01-6	<0.5
Vinyl acetate	108-05-4	<0.5
Xylenes (m-, o- & p-)	108-38-3, 95-47-6, 106-42-3	<0.5

\* The stated result was calculated from an emission rate applied to the standard private office room Model (Table 4-2) using an 11.15 m<sup>2</sup> exposed ceiling area, a room volume of 30.6 m<sup>3</sup>, and a ventilation rate of 0.68 hr<sup>-1</sup>.