



ANALYTICAL REPORT

Customer: Tim Cafe
YINTEC

Your Reference: Particle Board samples

SGS Report Number: ENV 19085 (LIMS SE122419)

Date of Receipt of Samples: 17th November, 2013

Date of Sampling: 2nd December, 2013

The samples were analysed in accordance with your instructions. The results and associated information are contained in the following pages of the report. Should you have any queries regarding this report please contact the undersigned.

Reported by: Dr David Stone

Date: 9/12/2013

Report authorised by: Dr Peter Novella

Date: 10/12/2013

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Sample Description:

Two pieces of compressed wood board were supplied to SGS, they were cut to approximately 200mm X300mm, and fitted inside the test chamber.

Methods Used:

Emission rate of Formaldehyde calculated using method satisfying ISO10580:2010. The sample was prepared for analysis, by removing the aluminium foil layers and placing in the test chamber, equilibrated, and was kept in the sealed test chamber and overnight with a constant flow (100ml/min) of instrument grade air at 50-55% humidity. After 16 hours a sample of gas from the test chamber, and the internal standards, were trapped onto individual adsorbent tubes, and analysed by the US EPA TO-10 (aldehydes by LC-UV) method for formaldehyde.

Analytical Results:

Compressed wood chip board: surface area of material 0.05 to 0.06 m²
Dominant chemicals; formaldehyde
Precision; +/- 0.002
Method is equivalent to ASTM D5116-90.

Chemical	Emission rate mg/m ² /h	
	Sample 1 (20 x 26 cm)	Sample 2 (23 x 23cm)
Formaldehyde	0.047	0.043
Acetaldehyde	0.00033	0.00046

Opinions and Interpretations:

The desired emission rate, to achieve Green-Star rating, is 0.5 mg/m²/h (milligram per square metre per hour), which was achieved for these samples of compressed wood.