SMALL CHAMBER FORMALDEHYDE EMISSIONS TEST OF PANEL PRODUCTS IN ACCORDANCE WITH ASTM D6007-14
Test Report No: SI-1604-3

General

PFS Corporation of Cottage Grove, Wisconsin, performed client requested testing services in accordance with procedures and methods referenced in ASTM D6007-14, "*Standard Test Method for Determining Formaldehyde Concentrations in Air from Wood Products Using a Small Scale Chamber*."

Test Specimen Data

TEST SPECIMEN DATA			
Manufacturer:	HARDWOOD FLOORING LIQUIDATORS INC		
Location:	2250 Yates Ave City of Commerce Los Angeles California		
Date of Manufacture:	4/19/2016	**Date Sampled:**	4/21/2016
Date Received:	4/24/2016		
Product Type:	HWPW-MDF(MDF FLOORING)		
	☒ Finished ☐ Unfinished	☒ 1 Side ☐ Both Sides	
Item No.:	REFR680-L1	**Product Series:**	FRONTIER COLIECTION
Nominal Thickness/Plies:	12.2mm/3Plies	**Sample Size:**	3×7-in
Sample Quantity:	3 coupons	**Q/A ratio((m^3 /hr/m^2):**	1.172
Edge Sealed:	Yes	**Off gas:**	3Days

The samples were selected at the manufacturing facility by a PFS representative. They were individually wrapped and shipped.The samples remained sealed and stored in a room maintained at 50% RH, 70° F prior to testing. The formaldehyde background concentration in the air where the specimens were conditioned was documented at <0.01 ppm.

Test Method and Results

Prior to placing the test samples in the chamber, the chamber door was closed and the formaldehyde background concentration of air in the chamber was measured at <0.01 ppm. The samples were placed in the chamber with all edges sealed with aluminum tape. The chamber (volume = 6.92 cu ft) was maintained at 0.5 ACH for 150 minutes. The formaldehyde concentration of make-up air was measured at <0.01 ppm. After 120 minutes, air samples were drawn at a rate of one (1) L/minute for 30 minutes.Emission values were determined with spectrophotometer analysis [UNICO, Model #1201, s/n 080627].The ASTM D6007-14 absorbance readings are corrected to an emission level at standard conditions (50% RH and 77 ºF). The ASTM E1333-14 test result is based on correlation with the ASTM D6007-14 corrected emission levels.

Test No	Test Date	ASTM D6007, Small Chamber Formaldehyde Emissions Test								ASTM E1333 Correlated
		Temp	RH	Atm.	Absorbance		Formaldehyde Emissions Corrected to Std. Cond. (ppm)			
		(° F)	(%)	(in. Hg)	#1	#2	#1	#2	Avg.	(ppm)
1604-2	4/27/2016	77.70	51.3	28.80	0.047	0.047	0.077	0.077	0.077	0.077

The ASTM D6007-02 test result meets the CARB 93120 Table 1, Phase 2 Limitation of 0.11 ppm for HWPW-MDF. PASS

Note:

(1)The scope of CARB ATCM is applicable for composite wood,but not for other wood products.

(2)Formaldehyde emmission test is one of the conformity criteria under CARB ATCM.Full conformity of a composite wood product happen provided that this composite wood fulfill all the requirement as stated in CARB ATCM title 17 section 93120 to 93120.12.

(3)ppm is parts of formaldehyde per million parts air.

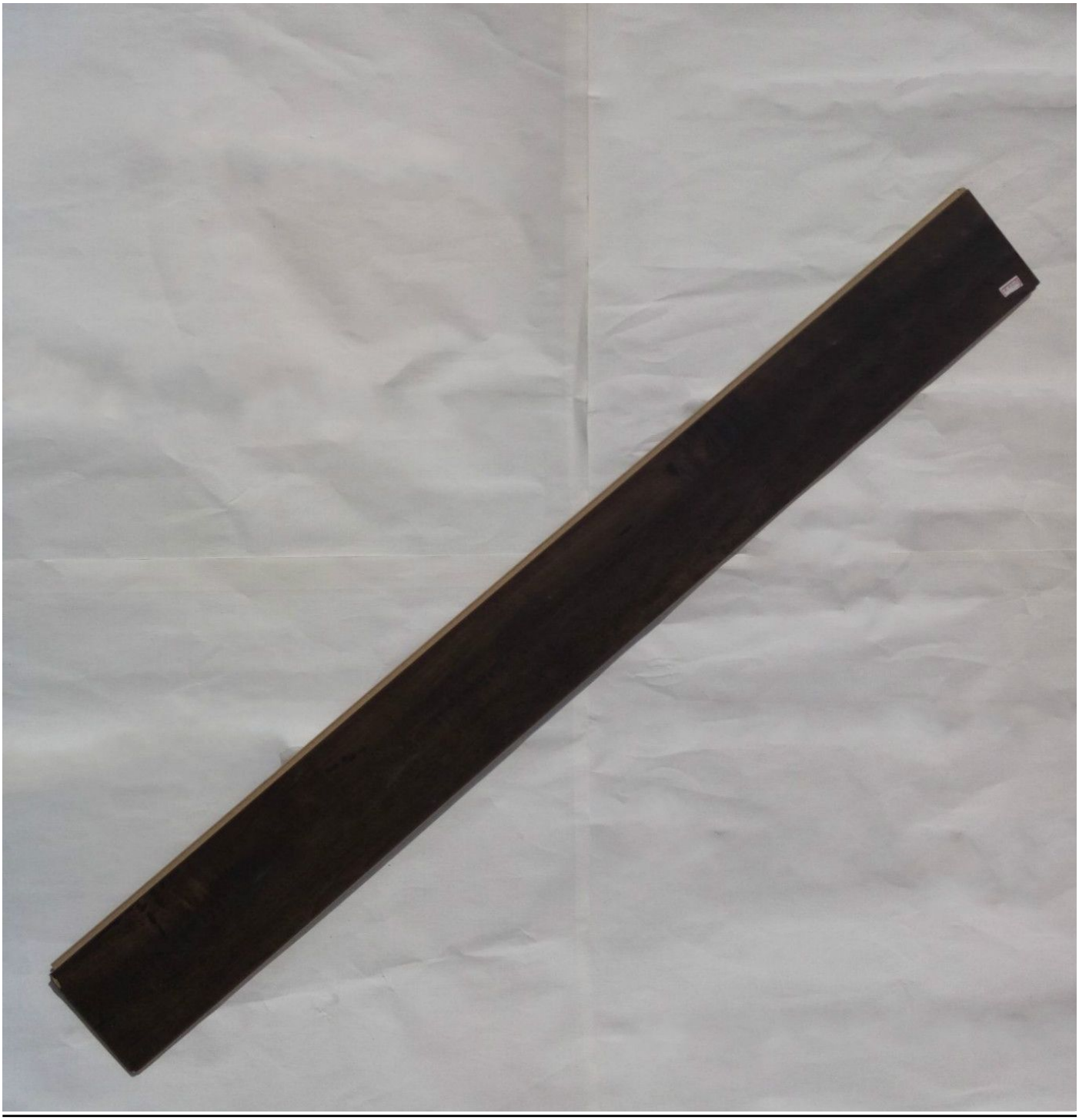
Test Report Duplication

Reporte Prepared by Linyi City Meilinj ia Panel Products Quality Testing Co., Ltd

Yu Ying

Lab Technician

Sample Photo:



End of Report

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