

Guangxi Sunway Forest Products				725-8R042				
Attn: Mr. Qiu Qinghua				CARB Formaldehyde Emissions				
#81 Tang Yuan Road,		Report #:	725-8R042	-8R042-1				
Wuzhou, Guangxi,			Sample #:	8542				
CHINA 543000			Location:	Profession	al Service Industries, Inc 27	'10 West		
				5th Avenue	- Eugene, OR 97402, Phone	:541/484-		
Non-Quarterly Small Chamber	Non-Quarterly Small Chamber			9212 - Fax	: 541/244-2735			
ASTM D6007 Det	ermining Fo	ormal	dehyde Emis	ssions Usir	ig Small Chamber			
Chamber Results				F	Production Data			
	Impinger		Product:	GSFP-Q-A	1			
	#1		Mill Code:	GSFP	Prod Date: No	ot Supplied		
Observed Flow Rate (I/m):	1.000		Prod Group:	MDF	Control Date: Not Sup			
Corr. Vol. of Air Sample:	29.355		Test Date:	16-Dec-08				
Raw Absorbance Values:	0.000							
	0.006				Chamber Condition	ns		
	0.004				Barometric Pressure (in):	29.30		
Average Absorbance:	0.003				Dry Bulb Temp (°F):	77.40		
Unadjusted PPM:	0.00				Relative Humidity (%):	47.00		
Temp. Correction Factor 77°F:	0.98				Length of Test (minutes):	30.00		
R.H. Correction Factor 50% RH:	1.06							
Standardized Concentration PPM:	0.00							
Maximum PPM: P1=.	21, P2= .11							
Comments: Sample pas	ses CARB I	P1 and	d P2 standa	rds.				
		Pa	rameters:					
Loading Ratio: 0.080				Volume =	.1191863m³			
Chamber Dimensions: .49213m x .4	49213m x .4	9213n	n					
Air Exchange Rate: 0.50 ± 0.05	air changes	per ho	our					

The chamber is activated under positive pressure. The air sampling rate was 1.0 liters per minute at 30 ±2 minutes

The samples were conditioned for seven days prior to testing at 70° to 80° F and 45% to 55% relative humidity. During conditioning, the formaldehyde background level was 0.01 parts per million or less.

Services performed for this project have been conducted with a level of care and skill ordinarily exercised by members of the profession currently practicing in this area under similar conditions and restraints. No warranty, expressed or implied, is made.

Respectfully submitted,

nanda Wilcop

Randy T. Webb *TQ* Director, Technical Services Engineered Wood Products



Guangxi Sunway Forest Products	Project #:	725-8R042				
Attn: Mr. Qiu Qinghua	Report Of:	CARB Formaldehyde Emissions				
#81 Tang Yuan Road,	Report #:	725-8R042-2				
Wuzhou, Guangxi,		Sample #:	8440			
CHINA 543000		Location:	Professiona	al Service Industries, Inc 2	710 West	
			5th Avenue - Eugene, OR 97402, Phone:541/484-			
Non-Quarterly Small Chamber	Non-Quarterly Small Chamber			541/244-2735		
ASTM D6007 Det	ermining For	maldehyde Emi	ssions Usin	g Small Chamber		
Chamber Results			P	roduction Data		
	Impinger	Product:	4.7mm E0	MDF		
	#1	Mill Code:	GSFP	Prod Date:	23-Sep-08	
Observed Flow Rate (I/m):	1.000	Prod Group:	MDF	Control Date:	23-Sep-08	
Corr. Vol. of Air Sample:	29.377	Test Date:	15-Dec-08	Coll. Date:	17-Oct-08	
Raw Absorbance Values:	0.016					
	0.020			Chamber Condition	ons	
	0.019			Barometric Pressure (in):	29.30	
Average Absorbance:	0.018			Dry Bulb Temp (°F):	77.00	
Unadjusted PPM:	0.02			Relative Humidity (%):	49.00	
	4.00			Length of Test (minutes):	30.00	
Temp. Correction Factor 77°F:	1.00					
	1.00					
Temp. Correction Factor 77°F:				20.1gt. 0. 1001 (		
Temp. Correction Factor 77°F: R.H. Correction Factor 50% RH:	1.02 0.02					
Temp. Correction Factor 77°F: R.H. Correction Factor 50% RH: Standardized Concentration PPM:	1.02 0.02					
Temp. Correction Factor 77°F: R.H. Correction Factor 50% RH: Standardized Concentration PPM:	1.02 0.02 21, P2= .11	and P2 standa	rds.			
Temp. Correction Factor 77°F: R.H. Correction Factor 50% RH: Standardized Concentration PPM: Maximum PPM: P1=	1.02 0.02 21, P2= .11	and P2 standa	rds.			
Temp. Correction Factor 77°F: R.H. Correction Factor 50% RH: Standardized Concentration PPM: Maximum PPM: P1=	1.02 0.02 21, P2= .11		rds. Volume =	.1191863m <sup>3</sup>		
Temp. Correction Factor 77°F:   R.H. Correction Factor 50% RH:   Standardized Concentration PPM:   Maximum PPM: P1=   Comments: Sample pase   Loading Ratio: 0.080	1.02 0.02 21, P2= .11	Parameters:				

The chamber is activated under positive pressure. The air sampling rate was 1.0 liters per minute at 30 ±2 minutes

The samples were conditioned for seven days prior to testing at 70° to 80° F and 45% to 55% relative humidity. During conditioning, the formaldehyde background level was 0.01 parts per million or less.

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Respectfully submitted,

Mirande Wilcol

Randy T. Webb *TW* Director, Technical Services Engineered Wood Products



Guangxi Sunway Forest Products			Project #:	#: 725-8R042				
Attn: Mr. Qiu Qinghua			Report Of:	CARB Formaldehyde Emissions				
#81 Tang Yuan Road,			Report #:	725-8R042-3				
Wuzhou, Guangxi,			Sample #:	8441				
CHINA 543000			Location:	Professiona	al Service Industries, Inc 2	2710 West		
				5th Avenue - Eugene, OR 97402, Phone:541/484-				
Non-Quarterly Small Chamber				9212 - Fax:	541/244-2735			
	etermining Fo	orma	dehvde Emis	sions Usin	g Small Chamber			
Chamber Results					Production Data			
	Impinger		Product:	4.7mm E0	MDF			
	#1		Mill Code:		Prod Date:	23-Sep-08		
Observed Flow Rate (I/m	1.000		Prod Group:	MDF	Control Date:	23-Sep-08		
Corr. Vol. of Air Sample				15-Dec-08	Coll. Date:	17-Oct-08		
Raw Absorbance Values	: 0.013							
	0.013				Chamber Conditi	ons		
	0.015				Barometric Pressure (in):	29.30		
Average Absorbance	: 0.014				Dry Bulb Temp (°F):	77.10		
Unadjusted PPM					Relative Humidity (%):	48.00		
Temp. Correction Factor 77°F					Length of Test (minutes):	30.00		
R.H. Correction Factor 50% RH	: 1.04							
Standardized Concentration PPM	: 0.01							
Maximum PPM: P1=	.21, P2= .11							
Comments: Sample pa	asses CARB	P1 <u>ar</u>	nd P2 standa	rds.				
			arameters:					
Loading Ratio: 0.080				Volume =	.1191863m³			
	.49213m x .4	9213	m					
Air Exchange Rate: 0.50 ± 0.0	5 air changes	per h	our					

The chamber is activated under positive pressure. The air sampling rate was 1.0 liters per minute at 30 ±2 minutes

The samples were conditioned for seven days prior to testing at 70° to 80° F and 45% to 55% relative humidity. During conditioning, the formaldehyde background level was 0.01 parts per million or less.

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Grande Wilcol

Randy T. Webb Director, Technical Services Engineered Wood Products



Guangxi Sunway Forest Products				725-8R042				
Attn: Mr. Qiu Qinghua				CARB Formaldehyde Emissions				
#81 Tang Yuan Road,			Report #:	725-8R042-4				
Wuzhou, Guangxi,			Sample #:	8442				
CHINA 543000			Location:	Profession	al Service Industries, Inc 2	2710 West		
			5th Avenue - Eugene, OR 97402, Phone:541/484-					
Non-Quarterly Small Chamber				: 541/244-2735				
ASTM D6007 Det	ermining Fo	orma	Idehyde Emis	ssions Usir	ng Small Chamber			
Chamber Results					Production Data			
	Impinger		Product:	4.75mm E	1 MDF			
	#1		Mill Code:	GSFP	Prod Date:	27-Sep-08		
Observed Flow Rate (I/m):	1.000		Prod Group:	MDF	Control Date:	27-Sep-08		
Corr. Vol. of Air Sample:	29.350		· · · · ·	15-Dec-08	Coll. Date:	17-Oct-08		
Raw Absorbance Values:	0.016							
	0.012				Chamber Conditi	ons		
	0.017				Barometric Pressure (in):	29.30		
Average Absorbance:	0.015				Dry Bulb Temp (°F):	77.50		
Unadjusted PPM:	0.01				Relative Humidity (%):	48.00		
Temp. Correction Factor 77°F:	0.97				Length of Test (minutes):	30.00		
R.H. Correction Factor 50% RH:	1.04							
Standardized Concentration PPM:	0.01							
Maximum PPM: P1= .	21, P2= .11							
Comments: Sample pas	ses CARB I	P1 an	d P2 standa	rds.				
			arameters:					
Loading Ratio: 0.080				Volume =	.1191863m³			
Chamber Dimensions: .49213m x .4	9213m x .4	9213	m					
Air Exchange Rate: 0.50 ± 0.05 a	air changes	oer ho	our					

The chamber is activated under positive pressure. The air sampling rate was 1.0 liters per minute at 30 ±2 minutes

The samples were conditioned for seven days prior to testing at 70° to 80° F and 45% to 55% relative humidity. During conditioning, the formaldehyde background level was 0.01 parts per million or less.

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'inanda Wilcol

Randy T. Webb POP Director, Technical Services Engineered Wood Products



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Guangxi Sunway Forest P	roducts			Project	#:	725-8R042			
Attn: Mr. Qiu Qinghua			Report	Of:	f: CARB Formaldehyde Emissions				
#81 Tang Yuan Road,					725-8R042				
Wuzhou, Guangxi,				Sample	#:	8443			
CHINA 543000							al Service Industries, Inc 2	2710 West	
				ľ	5th Avenue - Eugene, OR 97402, Phone:541/484-				
Non-Quarterly Small Chan	nber						: 541/244-2735		
				la buda E					
		ermining F	orma	aenyae E			ig Small Chamber		
Chamber R	esults						Production Data		
		Impinger				4.75mm E1			
		#1		Mill Co			Prod Date:	27-Sep-08	
Observed Flow		1.000		Prod Gro			Control Date:	27-Sep-08	
Corr. Vol. of A	ir Sample:	29.377		Test Da	te:	15-Dec-08	Coll. Date:	17-Oct-08	
Raw Absorban	ce Values:	0.022							
		0.017					Chamber Conditi	ons	
		0.021					Barometric Pressure (in):	29.30	
Average Abs	sorbance:	0.020					Dry Bulb Temp (°F):	77.00	
Unadjus	sted PPM:	0.02					Relative Humidity (%):	50.00	
Temp. Correction Fac	ctor 77°F:	1.00					Length of Test (minutes):	30.00	
R.H. Correction Factor	50% RH:	1.00				•			
Standardized Concentrat	tion PPM:	0.02							
Maximum P	PM: P1=	21, P2= .11							
T T									
Comments: Sample passes CARB P1 and P2 standards.									
Comments: S									
Comments: S			Pa	rameters:					
	.080		Pa	rameters:		Volume =	.1191863m <sup>3</sup>		
Loading Ratio: 0	.080					Volume =	.1191863m³		
Loading Ratio: 0 Chamber Dimensions: .4	.080 19213m x .4	19213m x .4 air changes	9213	m		Volume =	.1191863m³		

The chamber is activated under positive pressure. The air sampling rate was 1.0 liters per minute at 30 ±2 minutes

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Tirande Wilcol

Randy T. Webb 7 DX Director, Technical Services Engineered Wood Products



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Guangxi Sunway Forest Pro	oducts			Project #:	725-8R042	725-8R042			
Attn: Mr. Qiu Qinghua	Attn: Mr. Qiu Qinghua				CARB Formaldehyde Emissions				
#81 Tang Yuan Road,			Report #:	725-8R042-6					
Wuzhou, Guangxi,				Sample #:	8444				
CHINA 543000						al Service Industries, Inc 2	710 West		
					5th Avenue - Eugene, OR 97402, Phone:541/484-				
Non-Quarterly Small Chamber				9212 - Fax: 541/244-2735					
ASTM D	06007 Det	ermining Fo	orma	Idehyde Emis	ssions Usin	ng Small Chamber			
Chamber Re	esults				F	Production Data			
		Impinger		Product:	12mm E1 I	MDF			
		#1		Mill Code:	GSFP	Prod Date:	9-Oct-08		
Observed Flow R	Rate (I/m):	1.000		Prod Group:	MDF	Control Date:	9-Oct-08		
Corr. Vol. of Air	r Sample:	29.410		Test Date:	15-Dec-08	Coll. Date:	17-Oct-08		
Raw Absorbance	e Values:	0.011							
		0.008				Chamber Condition	ons		
		0.008				Barometric Pressure (in):	29.30		
Average Abso	orbance:	0.009				Dry Bulb Temp (°F):	76.40		
Unadjust	ted PPM:	0.00				Relative Humidity (%):	49.00		
Temp. Correction Fact	tor 77°F:	1.03				Length of Test (minutes):	30.00		
R.H. Correction Factor	50% RH:	1.02							
Standardized Concentration	ion PPM:	0.00							
Maximum PP	PM: P1= .:	21, P2= .11							
Comments: Sa	ample pas	ses CARB	P1 ar	nd P2 standa	rds.				
			Pa	arameters:					
Loading Ratio: 0.0	080				Volume =	.1191863m³			
	9213m x .4	9213m x .4	9213	m					
Air Exchange Rate: 0.5	50 ± 0.05 a	air changes	per h	our					

The chamber is activated under positive pressure. The air sampling rate was 1.0 liters per minute at 30 ±2 minutes

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Randy T. Webb For Director, Technical Services Engineered Wood Products



Guangxi Sunway Forest Pr	<u>roducts</u>			Project #:	725-8R042				
Attn: Mr. Qiu Qinghua				Report Of:	CARB Formaldehyde Emissions				
#81 Tang Yuan Road,				Report #:	725-8R042	-7	14		
Wuzhou, Guangxi,				Sample #:	8445				
CHINA 543000				Location:	Professiona	al Service Industries, Inc 2	710 West		
					5th Avenue	- Eugene, OR 97402, Phon	e:541/484-		
Non-Quarterly Small Cham	ber				9212 - Fax:	541/244-2735			
ASTM	D6007 Det	ermining Fo	orma	dehyde Emis	ssions Usin	g Small Chamber			
Chamber Re	esults				P	Production Data			
		Impinger		Product:	12mm E1 M	MDF			
	ľ	#1		Mill Code:		Prod Date:	9-Oct-08		
Observed Flow F	Rate (l/m):	1.000		Prod Group:	MDF	Control Date:	9-Oct-08		
Corr. Vol. of Ai		29.366		Test Date:	15-Dec-08	Coll. Date:	17-Oct-08		
Raw Absorbanc	Raw Absorbance Values: 0.008								
		0.008				Chamber Condition	ons		
		0.004				Barometric Pressure (in):	29.30		
Average Abs	orbance:	0.007				Dry Bulb Temp (°F):	77.20		
	ted PPM:	0.00				Relative Humidity (%):	47.00		
Temp. Correction Fac	tor 77°F:	0.99				Length of Test (minutes):	30.00		
R.H. Correction Factor	50% RH:	1.06							
Standardized Concentrat	ion PPM:	0.00							
Maximum Pl	PM: P1= .:	21, P2= .11							
Comments: Sa	ample pas	ses CARB	P1 an	id P2 standa	rds.				
			Pa	arameters:					
<u> </u>	080				Volume =	.1191863m³			
		l9213m x .4							
Air Exchange Rate: 0.	50 ± 0.05 a	air changes	per h	our					

The chamber is activated under positive pressure. The air sampling rate was 1.0 liters per minute at 30 ±2 minutes

The samples were conditioned for seven days prior to testing at 70° to 80° F and 45% to 55% relative humidity. During conditioning, the formaldehyde background level was 0.01 parts per million or less.

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Phrande Vileof

Randy T. Webb Director, Technical Services Engineered Wood Products