

Guangxi Sunway Forest Products
Attn: Mr. Qiu Qinghua
#81 Tang Yuan Road,
Wuzhou, Guangxi,
CHINA 543000

Project #: 725-8R042
Report Of: CARB Formaldehyde Emissions
Report #: 725-8R042-1
Sample #: 8542
Location: Professional Service Industries, Inc. - 2710 West 5th Avenue - Eugene, OR 97402, Phone:541/484-9212 - Fax: 541/244-2735

Non-Quarterly Small Chamber

ASTM D6007 Determining Formaldehyde Emissions Using Small Chamber

Chamber Results	
	Impinger #1
Observed Flow Rate (l/m):	1.000
Corr. Vol. of Air Sample:	29.355
Raw Absorbance Values:	0.000
	0.006
	0.004
Average Absorbance:	0.003
Unadjusted PPM:	0.00
Temp. Correction Factor 77°F:	0.98
R.H. Correction Factor 50% RH:	1.06
Standardized Concentration PPM:	0.00
Maximum PPM: P1= .21, P2= .11	

Production Data			
Product:	GSFP-Q-A1		
Mill Code:	GSFP	Prod Date:	Not Supplied
Prod Group:	MDF	Control Date:	Not Supplied
Test Date:	16-Dec-08	Coll. Date:	Not Supplied

Chamber Conditions	
Barometric Pressure (in):	29.30
Dry Bulb Temp (°F):	77.40
Relative Humidity (%):	47.00
Length of Test (minutes):	30.00

Comments: Sample passes CARB P1 and P2 standards.

Parameters:			
Loading Ratio:	0.080	Volume =	.1191863m ³
Chamber Dimensions:	.49213m x .49213m x .49213m		
Air Exchange Rate:	0.50 ± 0.05 air changes per hour		

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,
Professional Service Industries, Inc.
Pittsburgh Testing Laboratory Division

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

Guangxi Sunway Forest Products
Attn: Mr. Qiu Qinghua
#81 Tang Yuan Road,
Wuzhou, Guangxi,
CHINA 543000

Project #: 725-8R042
Report Of: CARB Formaldehyde Emissions
Report #: 725-8R042-2
Sample #: 8440
Location: Professional Service Industries, Inc. - 2710 West 5th Avenue - Eugene, OR 97402, Phone:541/484-9212 - Fax: 541/244-2735

Non-Quarterly Small Chamber

ASTM D6007 Determining Formaldehyde Emissions Using Small Chamber

Chamber Results	
	Impinger #1
Observed Flow Rate (l/m):	1.000
Corr. Vol. of Air Sample:	29.377
Raw Absorbance Values:	0.016
	0.020
	0.019
Average Absorbance:	0.018
Unadjusted PPM:	0.02
Temp. Correction Factor 77°F:	1.00
R.H. Correction Factor 50% RH:	1.02
Standardized Concentration PPM:	0.02
Maximum PPM: P1= .21, P2= .11	

Production Data			
Product:	4.7mm E0 MDF		
Mill Code:	GSFP	Prod Date:	23-Sep-08
Prod Group:	MDF	Control Date:	23-Sep-08
Test Date:	15-Dec-08	Coll. Date:	17-Oct-08

Chamber Conditions	
Barometric Pressure (in):	29.30
Dry Bulb Temp (°F):	77.00
Relative Humidity (%):	49.00
Length of Test (minutes):	30.00

Comments: Sample passes CARB P1 and P2 standards.

Parameters:			
Loading Ratio:	0.080	Volume =	.1191863m ³
Chamber Dimensions:	.49213m x .49213m x .49213m		
Air Exchange Rate:	0.50 ± 0.05 air changes per hour		

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.

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Pittsburgh Testing Laboratory Division

Miranda Wilcox
Randy T. Webb *for*
Director, Technical Services
Engineered Wood Products

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CHINA 543000

Project #: 725-8R042
Report Of: CARB Formaldehyde Emissions
Report #: 725-8R042-3
Sample #: 8441
Location: Professional Service Industries, Inc. - 2710 West 5th Avenue - Eugene, OR 97402, Phone:541/484-9212 - Fax: 541/244-2735

Non-Quarterly Small Chamber

ASTM D6007 Determining Formaldehyde Emissions Using Small Chamber

Chamber Results	
	Impinger #1
Observed Flow Rate (l/m):	1.000
Corr. Vol. of Air Sample:	29.372
Raw Absorbance Values:	0.013
	0.013
	0.015
Average Absorbance:	0.014
Unadjusted PPM:	0.01
Temp. Correction Factor 77°F:	0.99
R.H. Correction Factor 50% RH:	1.04
Standardized Concentration PPM:	0.01
Maximum PPM: P1= .21, P2= .11	

Production Data			
Product:	4.7mm E0 MDF		
Mill Code:	GSFP	Prod Date:	23-Sep-08
Prod Group:	MDF	Control Date:	23-Sep-08
Test Date:	15-Dec-08	Coll. Date:	17-Oct-08

Chamber Conditions	
Barometric Pressure (in):	29.30
Dry Bulb Temp (°F):	77.10
Relative Humidity (%):	48.00
Length of Test (minutes):	30.00

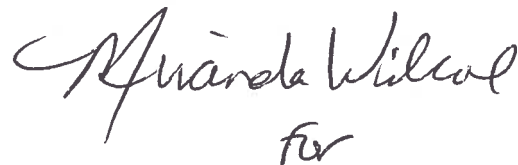
Comments: Sample passes CARB P1 and P2 standards.

Parameters:			
Loading Ratio:	0.080	Volume =	.1191863m ³
Chamber Dimensions:	.49213m x .49213m x .49213m		
Air Exchange Rate:	0.50 ± 0.05 air changes per hour		

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.

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 CHINA 543000

Project #: 725-8R042
Report Of: CARB Formaldehyde Emissions
Report #: 725-8R042-4
Sample #: 8442
Location: Professional Service Industries, Inc. - 2710 West
 5th Avenue - Eugene, OR 97402, Phone:541/484-
 9212 - Fax: 541/244-2735

Non-Quarterly Small Chamber

ASTM D6007 Determining Formaldehyde Emissions Using Small Chamber

Chamber Results	
	Impinger #1
Observed Flow Rate (l/m):	1.000
Corr. Vol. of Air Sample:	29.350
Raw Absorbance Values:	0.016
	0.012
	0.017
Average Absorbance:	0.015
Unadjusted PPM:	0.01
Temp. Correction Factor 77°F:	0.97
R.H. Correction Factor 50% RH:	1.04
Standardized Concentration PPM:	0.01
Maximum PPM: P1= .21, P2= .11	

Production Data			
Product:	4.75mm E1 MDF		
Mill Code:	GSFP	Prod Date:	27-Sep-08
Prod Group:	MDF	Control Date:	27-Sep-08
Test Date:	15-Dec-08	Coll. Date:	17-Oct-08

Chamber Conditions	
Barometric Pressure (in):	29.30
Dry Bulb Temp (°F):	77.50
Relative Humidity (%):	48.00
Length of Test (minutes):	30.00

Comments: Sample passes CARB P1 and P2 standards.

Parameters:			
Loading Ratio:	0.080	Volume =	.1191863m ³
Chamber Dimensions:	.49213m x .49213m x .49213m		
Air Exchange Rate:	0.50 ± 0.05 air changes per hour		

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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Professional Service Industries, Inc.
 Pittsburgh Testing Laboratory Division



Randy T. Webb
 Director, Technical Services
 Engineered Wood Products

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CHINA 543000

Project #: 725-8R042
Report Of: CARB Formaldehyde Emissions
Report #: 725-8R042-5
Sample #: 8443
Location: Professional Service Industries, Inc. - 2710 West 5th Avenue - Eugene, OR 97402, Phone:541/484-9212 - Fax: 541/244-2735

Non-Quarterly Small Chamber

ASTM D6007 Determining Formaldehyde Emissions Using Small Chamber

Chamber Results	
	Impinger #1
Observed Flow Rate (l/m):	1.000
Corr. Vol. of Air Sample:	29.377
Raw Absorbance Values:	0.022
	0.017
	0.021
Average Absorbance:	0.020
Unadjusted PPM:	0.02
Temp. Correction Factor 77°F:	1.00
R.H. Correction Factor 50% RH:	1.00
Standardized Concentration PPM:	0.02
Maximum PPM: P1= .21, P2= .11	

Production Data			
Product:	4.75mm E1 MDF		
Mill Code:	GSFP	Prod Date:	27-Sep-08
Prod Group:	MDF	Control Date:	27-Sep-08
Test Date:	15-Dec-08	Coll. Date:	17-Oct-08

Chamber Conditions	
Barometric Pressure (in):	29.30
Dry Bulb Temp (°F):	77.00
Relative Humidity (%):	50.00
Length of Test (minutes):	30.00

Comments: Sample passes CARB P1 and P2 standards.

Parameters:			
Loading Ratio:	0.080	Volume =	.1191863m ³
Chamber Dimensions:	.49213m x .49213m x .49213m		
Air Exchange Rate:	0.50 ± 0.05 air changes per hour		

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.

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Pittsburgh Testing Laboratory Division



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Director, Technical Services
Engineered Wood Products

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CHINA 543000

Project #: 725-8R042
Report Of: CARB Formaldehyde Emissions
Report #: 725-8R042-6
Sample #: 8444
Location: Professional Service Industries, Inc. - 2710 West 5th Avenue - Eugene, OR 97402, Phone:541/484-9212 - Fax: 541/244-2735

Non-Quarterly Small Chamber

ASTM D6007 Determining Formaldehyde Emissions Using Small Chamber

Chamber Results	
	Impinger #1
Observed Flow Rate (l/m):	1.000
Corr. Vol. of Air Sample:	29.410
Raw Absorbance Values:	0.011
	0.008
	0.008
Average Absorbance:	0.009
Unadjusted PPM:	0.00
Temp. Correction Factor 77°F:	1.03
R.H. Correction Factor 50% RH:	1.02
Standardized Concentration PPM:	0.00
Maximum PPM: P1= .21, P2= .11	

Production Data			
Product:	12mm E1 MDF		
Mill Code:	GSFP	Prod Date:	9-Oct-08
Prod Group:	MDF	Control Date:	9-Oct-08
Test Date:	15-Dec-08	Coll. Date:	17-Oct-08

Chamber Conditions	
Barometric Pressure (in):	29.30
Dry Bulb Temp (°F):	76.40
Relative Humidity (%):	49.00
Length of Test (minutes):	30.00

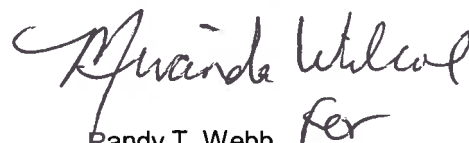
Comments: Sample passes CARB P1 and P2 standards.

Parameters:			
Loading Ratio:	0.080	Volume =	.1191863m ³
Chamber Dimensions:	.49213m x .49213m x .49213m		
Air Exchange Rate:	0.50 ± 0.05 air changes per hour		

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.

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CHINA 543000

Project #: 725-8R042
Report Of: CARB Formaldehyde Emissions
Report #: 725-8R042-7
Sample #: 8445
Location: Professional Service Industries, Inc. - 2710 West 5th Avenue - Eugene, OR 97402, Phone:541/484-9212 - Fax: 541/244-2735

Non-Quarterly Small Chamber

ASTM D6007 Determining Formaldehyde Emissions Using Small Chamber

Chamber Results	
	Impinger #1
Observed Flow Rate (l/m):	1.000
Corr. Vol. of Air Sample:	29.366
Raw Absorbance Values:	0.008
	0.008
	0.004
Average Absorbance:	0.007
Unadjusted PPM:	0.00
Temp. Correction Factor 77°F:	0.99
R.H. Correction Factor 50% RH:	1.06
Standardized Concentration PPM:	0.00
Maximum PPM: P1= .21, P2= .11	

Production Data			
Product:	12mm E1 MDF		
Mill Code:	GSFP	Prod Date:	9-Oct-08
Prod Group:	MDF	Control Date:	9-Oct-08
Test Date:	15-Dec-08	Coll. Date:	17-Oct-08

Chamber Conditions	
Barometric Pressure (in):	29.30
Dry Bulb Temp (°F):	77.20
Relative Humidity (%):	47.00
Length of Test (minutes):	30.00

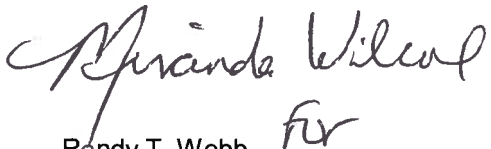
Comments: Sample passes CARB P1 and P2 standards.

Parameters:			
Loading Ratio:	0.080	Volume =	.1191863m ³
Chamber Dimensions:	.49213m x .49213m x .49213m		
Air Exchange Rate:	0.50 ± 0.05 air changes per hour		

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.

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