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GREENGUARD CERTIFICATION TEST REPORT					
Customer Information	PANTIM WOOD PRODUCTS, INC. 15 WASHINGTON AVE. SCARBOROUGH ME 04074				
Product Description	Symphony 3-PLY Engineered Hardwood Flooring				
Test Group	Wood Flooring - 01				
Category	Flooring				
Test Type	Initial				
Test Method	UL 2821 "GREENGUARD Certification Program Method for Measuring and Evaluating Chemical Emissions From Building Materials, Finishes and Furnishings Using Dynamic Environmental Chambers"				
	Environment	TVOC	Formaldehyde	Total Aldehydes	CREL/TLV
GREENGUARD	Office	✓	✓	✓	✓
GREENGUARD Gold	Office	✓	✓	✓	✓
	Classroom	✓	✓	✓	✓
✓ - meets criteria; X - over criteria					
Authorized by	 Allyson M. McFry Chemistry Laboratory Director				

MODELING FOR PREDICTED AIR CONCENTRATION					
Certification Program	Environment Basis	Modeling Basis	Surface Area (m ²)	Room Volume (m ³)	ACH (1/hr)
GREENGUARD and GREENGUARD Gold Office	CDPH/EHLB/Standard Method	floor	11.1	30.6	0.68
GREENGUARD Gold Classroom	CDPH/EHLB/Standard Method	floor	89.2	231	0.82

Note that certain environments and/or modeling scenarios may prevent assessment of low level CREL and TLV analytes due to the emissions being below the lower LOQ (0.04 µg). For example, benzene ½ CREL is 1.5 µg/m³.

APPENDIX 1

GREENGUARD GOLD RESULTS SUMMARY

Product Description		Symphony 3-PLY Engineered Hardwood Flooring		
COMPLIANCE WITH GREENGUARD GOLD STANDARD				
GREENGUARD Gold Acceptable IAQ Criteria		168 Hour Predicted Concentration**		Product Compliance for IAQ
		Office	Classroom	
TVOC	≤ 0.22 mg/m ³	0.014 mg/m ³	0.012 mg/m ³	Yes
Formaldehyde	≤ 0.0073 ppm	< 0.002 ppm	< 0.002 ppm	Yes
Total Aldehydes	≤ 0.043 ppm	0.005 ppm	0.004 ppm	Yes
1-Methyl-2-Pyrrolidinone	≤ 0.16 mg/m ³	< 0.003 mg/m ³	< 0.002 mg/m ³	Yes
Individual VOCs	≤ 1/100 TLV and ≤ ½ chronic REL	See Below		

**Predicted Air Concentrations are based on GREENGUARD Gold modeling predicted concentration parameters.

TOP TEN MOST ABUNDANT IDENTIFIED VOCS, INCLUDING ALDEHYDES					
CAS Number	Compound	168 Hour Chamber Concentration (µg/m ³)	168 Hour Emission Factor (µg/m ² ·hr)	Predicted Air Concentration** (µg/m ³)	
				Office	Classroom
104-76-7	1-Hexanol, 2-ethyl [†]	7.1	17.5	9	8
75-07-0	Acetaldehyde [‡]	5.6	13.7	7	6
100-42-5	Styrene [†]	3.3	8.1	4	4
66-25-1	Hexanal [‡]	3.0	7.4	4	3

CHEMICALS OF CONCERN WITH EXISTING TLV, CREL, CA PROP 65 OR CAL TOXIC AIR CONTAMINANT VALUES									
CAS Number	Compound	168 Hour Chamber Concentration (µg/m ³)	168 Hour Emission Factor (µg/m ² ·hr)	168 Hour Predicted Concentration** (µg/m ³)		✓ INDICATES PRESENCE ON LIST			
				Office	Classroom	CA PROP 65	CA TAC	CA CREL	ACGIH TLV
75-07-0	Acetaldehyde [‡]	5.6	13.7	7	6	✓(1)	✓(IIA)	✓	✓
100-42-5	Styrene [†]	3.3	8.1	4	4	✓(1)	✓(IIA; III)	✓	✓

COMPARISON OF COMPOUNDS FOUND WITH EXISTING TLV AND/OR CHRONIC REL						
CAS Number	Compound	1/100 TLV ^a (µg/m ³)	½ CA Chronic REL ^b (µg/m ³)	168 Hour Predicted Concentration** (µg/m ³)		Product Compliance
				Office	Classroom	
75-07-0	Acetaldehyde	450	70	7	6	Yes
100-42-5	Styrene	430	450	4	4	Yes

^aAmerican Conference of Governmental Industrial Hygienists. Threshold Limit Values for Chemical Substances and Physical Agents. Cincinnati, OH: ACGIH.

^bChronic Reference Exposure Levels (CRELs) adopted by the State of California Office of Environmental Health Hazard Assessment (OEHA).

[†]Denotes quantified using multipoint authentic standard curve. Other VOCs quantified relative to toluene.

[‡]Indicates compound identified and quantified by DNPH derivitization and HPLC/UV analysis with multipoint authentic standard.

[‡]Identification based on NIST mass spectral database only.

**Predicted Air Concentrations are based on modeling predicted concentration parameters shown [above](#).