Intertek ETL SEMKO

August 28, 2007

Glen Bonderud
BuildDirect.com Technologies Inc.
Suite 1900 – 750 Granville Street
Vancouver, B.C. Canada

Dear Mr. Bonderud,

RE: ICC-ES AC174 *Acceptance Criteria for Deck Board Span Ratings and Guardrail Systems* (Guard and Handrials)

Intertek Testing Services NA Ltd. (Intertek) has performed testing on Yakima (Tofino) and Rever (Shelton) composite deck board products in accordance with ICC-ES AC174 *Acceptance Criteria for Deck Board Span Ratings and Guardrail Systems (Guard and Handrails)* approved February 2007 (ICC-ES AC174). The results achieved thus far testing to ICC-ES AC174 are shown in Table 1, and have met the requirements of ICC-ES AC174.

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Table 1. – ICC-ES AC174 Test Results of Yakima (Tofino) and Rever (Shelton) Deck Boards

Property / Model	Test Result				Requirement	Pass / Fail
BASELINE FLEXURAL TESTS						
	Avg. MOR (psi)	Avg. MOE (psi)				
Yakima (Tofino)	1435	164584			N/A	N/A
Rever (Shelton)	1873	163732				
DETERMINATAION OF ALLOWABLE LOAD CAPACITY						
	Unadjusted Allowable Load (psf) **(see Temp. and Moisture Effects)**					
Yakima (Tofino)					Minimum unadjusted allowable load of 100 psf	
Baseline-	145					PASS
Temp/Moisture Effect-	100					
Freeze-Thaw-	128					
Rever (Shelton)						
Baseline-	225					PASS
Temp/Moisture Effect-	233					
Freeze-Thaw-	231					
TEMPERATURE AND MOISTURE EFFECTS						
	Avg. MOR (psi)	% Change	Avg. MOE (psi)	% Change		
Yakima - Cold Temp	1895	+32.1%	255155	+55.0%	Unadjusted Allowable Load is based on the most restrictive temp / moisture effect	PASS
Yakima - Elev. Temp	1025	-28.6%	87981	-46.5%		
Yakima - Moisture Ef.	1408	-1.9%	147456	-10.4%		
Rever - Cold Temp	2917	+103.3%	302503	+83.8%		PASS
Rever - Elev. Temp	1420	-1.0%	103469	-37.1%		
Rever - Moisture Ef.	1941	+3.6%	178837	+9.2%		
ULTRAVIOLET (UV) RESISTANCE						
	Avg. MOR – Baseline (psi)	Avg. MOR – Exposed (psi)	% Change			
Yakima (Tofino)	627	655	4.5%		Max. DECREASE of 10%	PASS
Rever (Shelton)	1960	1935	-1.3%			PASS
FREEZE-THAW RESISTANCE						
	Avg. MOR (psi)	% Change				
Yakima (Tofino)	1277	-11.0%			Max. DECREASE in MOR of 10%.	PASS
	(Avg. UAL) – 1% = **115.2 psf**					
Rever (Shelton)	1973	+5.3%				PASS
CREEP RECOVERY TEST						
	Percent Recovery					
Yakima (Tofino)	87.49 %				Min. percent recovery of 75%	PASS
Rever (Shelton)	90.71 %					PASS
DURATION OF LOAD						
TESTING IN PROGRESS – SCHEDULED COMPLETION SEPTEMBER 2007						
BIODETERIORATION RESISTANCE						
TESTING IN PROGRESS – SCHEDULED COMPLETION DECEMBER 2007						
FLAME SPREAD						
	Flame Spread Index					
Yakima (Tofino)	75				Max. Flame Spread Index of 200	PASS
Rever (Shelton)	105					PASS
MECHANICAL FASTENER HOLDING TESTS						
TESTING IN PROGRESS – SCHEDULED COMPLETION SEPTEMBER 2007						
STAIR TREAD ANALYSIS						
TESTING IN PROGRESS – SCHEDULED COMPLETION SEPTEMBER 2007						

Upon the successful completion of all testing listed in Table 1, the ICC-ES application will be submitted to the ICC-ES for review and subsequent approval

If you have any questions, please do not hesitate to contact us at 604-520-3321.

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