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October 29, 2012

Letter Report No. 100926347COQ-001B

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**Subject: Findings Letter Report 100926347COQ-001B**

Intertek has conducted an impact resistance test on your roofing underlayment product in accordance with the Class 4 requirements of UL2218-12, *Impact Resistance of Prepared Roof Covering Materials*. One (1) sample was received at the Evaluation Center on October 17, 2012 and was identified as Titanium UDL 50. The roofing underlayment product was installed on a test deck using 2 in. plastic capped nails. The test deck was 3 ft. x 3 ft. and was constructed of nominal 2 in. x 4 in. SPF lumber studs and 15/32 in. exterior grade plywood sheathing. The test deck was impacted twice at each of the 6 locations using a 2 in. diameter steel ball weighing 535 g. The 2 in. steel ball was dropped from a height of 20 ft. above the test deck. After the first drop at each location, the resultant depression was also measured using a depth gauge. Upon completion of the testing, the product was carefully removed from the test assembly and inspected for any sign of tearing, fracturing, cracking, splitting, rupturing, crazing, or any other evidence of opening. Refer to Table 1 below for results.

**Table 1. Impact Resistance Test Results**

Location	Description	Drop	Deflection (in)	Test Result	Pass/Fail
1	Edge of lap (midspan)	1	0.0040	No sign of tearing, fracturing, cracking, splitting, or any sign of opening	Pass
		2	N/A		
2	Unexposed edge of lap (midspan)	1	0.0095	No sign of tearing, fracturing, cracking, splitting, or any sign of opening	Pass
		2	N/A		
3	Edge of lap (over support)	1	0.0100	No sign of tearing, fracturing, cracking, splitting, or any sign of opening	Pass
		2	N/A		
4	Center of exposure (over support)	1	0.0060	No sign of tearing, fracturing, cracking, splitting, or any sign of opening	Pass
		2	N/A		
5	Edge of exposed fastener	1	0.0040	No sign of tearing, fracturing, cracking, splitting, or any sign of opening	Pass
		2	N/A		
6	Edge of unexposed fastener	1	0.0085	No sign of tearing, fracturing, cracking, splitting, or any sign of opening	Pass
		2	N/A		

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If there are any questions regarding the results contained in this report, or any of the other services offered by Intertek, please do not hesitate to contact the undersigned.

Completed by: Chris Chang, EIT  
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Building Products  
Title:  
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