



TEST SUMMARY

Rendered to:

DECK SUPPLY SERVICES LLC 3977 160th Street Blue Grass, Iowa 52726

Project No.: F4203.01-119-19

Test Date: 01/18/16

03/30/16 Test Summary Date:

Product: 95 in by 43-1/2 in *Georgian* Aluminum Level Guardrail System.

Scope: Structural performance tests were conducted on the Georgian aluminum level guardrail system attached to 3-1/2 in square aluminum post mounts by Architectural Testing, Inc., an Intertek company ("Intertek-ATI"). Tested in accordance with Section 4.2.2 − 4.2.4 of ICC-ES™ AC273 (approved February 2008, editorially revised January 2012) Acceptance Criteria for Handrails and Guards for preliminary evaluations only.

Test Results: The test results are reported in the following tables.

95-1/2 in by 43-1/2 in *Georgian* Aluminum Level Guardrail IBC – All Use Groups / ICC-ES™ AC273

Specimen No. 1 of 3

Test Results Summary Table				
Test	Target Load	Test Load	Result	
Infill Load at Center of Two Balusters	2.5 x Design Load (125 lbs)	126 – 130	Held in excess of one minute (PASS)	
Infill Load at Center of Two Balusters	2.5 x Design Load (125 lbs)	126 – 130		
Uniform Load Applied at 45°	125 plf (995 lbs)	997 – 1007		
Horizontal Concentrated Load at Midspan of Top Rail	Design Load (200 lbs)	203	0.69" Net Deflection vs. 2.49" Deflection Allowed¹ (PASS)	
	2.5 x Design Load (500 lbs)	504 – 513	Hold in overes of	
Horizontal Concentrated Load at the End of Top Rail	2.5 x Design Load x 2 (1000 lbs) ²	997 – 1010	Held in excess of one minute (PASS)	

 $^{^{}f 1}$ Allowable deflection was based on 36" railing height to satisfy One- and Two-Family dwelling requirements.

Load was imposed on both ends of rail using a spreader beam; therefore, loads were doubled.





Test Results: (Continued)

Specimen No. 2 of 3

Test Results Summary Table				
Test	Target Load	Test Load	Result	
Infill Load at Center of Two Balusters	2.5 x Design Load (125 lbs)	127 – 133	Held in excess of one minute (PASS)	
Infill Load at Center of Two Balusters	2.5 x Design Load (125 lbs)	130 – 136		
Uniform Load Applied at 45°	125 plf (995 lbs)	994 – 1013		
Horizontal Concentrated Load at Midspan of Top Rail	Design Load (200 lbs)	200	0.69" Net Deflection vs. 2.49" Deflection Allowed ¹ (PASS)	
	2.5 x Design Load (500 lbs)	501 – 517	Held in excess of	
Horizontal Concentrated Load at the End of Top Rail	2.5 x Design Load x 2 (1000 lbs) ²	1001 – 1026	one minute (PASS)	

¹ Allowable deflection was based on 36" railing height to satisfy One- and Two-Family dwelling requirements.

Specimen No. 3 of 3

Test Results Summary Table				
Test	Target Load	Test Load	Result	
Infill Load at Center of Two Balusters	2.5 x Design Load (125 lbs)	128 – 133	Held in excess of one minute (PASS)	
Infill Load at Center of Two Balusters	2.5 x Design Load (125 lbs)	130 – 134		
Uniform Load Applied at 45°	125 plf (995 lbs)	997 – 1011		
Horizontal Concentrated Load at Midspan of Top Rail	Design Load (200 lbs)	204	0.69" Net Deflection vs. 2.49" Deflection Allowed ¹ (PASS)	
	2.5 x Design Load (500 lbs)	504 – 526	Hold in aveces of	
Horizontal Concentrated Load at the End of Top Rail	2.5 x Design Load (500 lbs) x2 sides (1000 lbs) ²	996 – 1028	Held in excess of one minute (PASS)	

¹ Allowable deflection was based on 36" railing height to satisfy One- and Two-Family dwelling requirements.

² Load was imposed on both ends of rail using a spreader beam; therefore, loads were doubled.

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This is a summary of the testing for your information only. Should you desire a complete and formal test report, Intertek-ATI shall require detailed assembly drawings that fully describe the tested assemblies.

For INTERTEK-ATI:	
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