



August 10, 2018

Mr. Chris Scoville
Trex Company, Inc ("Customer")
160 Exeter Drive
Winchester, VA 22603-8614

RE: Snow and Live Load Span Analysis for Transcend, Enhance, Contour, and Select Composite Decking

Dear Mr. Scoville:

Pursuant to your request, Architectural Testing, Inc., an Intertek company ("Intertek-ATI"), has analyzed test data for the above referenced deck products for the purpose of determining the allowable span rating based on live loads of 100 psf and 200 psf and for snow loads of 250 psf, 300 psf and 350 psf, and 400 psf. The following Intertek-ATI reports were used to perform the analysis:

Product	Span (in)	Referenced Projects	
		Flexural	End Use Adjustment Factors
<i>Transcend 1x6</i>	16	I3429.01-119-19	F0855.01-119-19
<i>Transcend 2x6</i>	16 and 24	I3429.01-119-19	F0855.01-119-19
<i>Enhance</i>	16	I3429.01-119-19	F0855.01-119-19
<i>Contour</i>	16	I3429.01-119-19	D1815.01-119-19
<i>Select 1x6</i>	16	E5777.01-119-19	E5777.01-119-19
<i>Select 2x6</i>	16 and 24	I3429.01-119-19	E5777.01-119-19

The calculation methods of ICC-ES™ AC174 *Acceptance Criteria for Deck Board Span Ratings and Guardrail Systems (Guards and Handrails)* were used with the following exceptions:

- For snow load analysis, The End Use Adjustment Factors for high temperature were not included, since the snow loads would not exist concurrent with high temperature.
- Duration of load and creep effects were not addressed in these analyses.
- Snow and Live load spans greater than the products' span / load rating are not valid for construction purposes and are presented for information purposes only.
- Calculations for span tables is based on the lesser of a factory of safety of 2.5 for the average test results and 2.1 for the minimum test results per ICC-ES AC174.
- Calculations for the span are based on a deflection limit of L/180 per ICC-ES AC174.



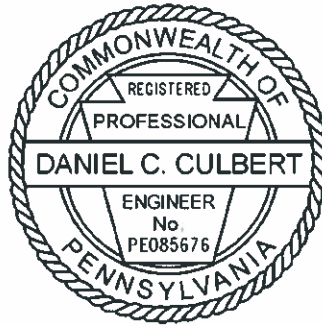
Span at Snow and Live Distributed Loads							
Product	Test Span	Live Load		Snow Load			
		100 psf	200 psf	250 psf	300 psf	350 psf	400 psf
Transcend 1x6	16	20"	16"	16"	16"	16"	16"
Transcend 2x6	16/24	24"	20"	20"	20"	20"	20"
Enhance	16	20"	16"	16"	16"	16"	16"
Contour	16	16"	16"	16"	16"	16"	16"
Select 1x6	16	16"	16"	16"	16"	16"	16"
Select 2x6	16/24	24"	20"	24"	20"	20"	20"

This letter of results neither constitutes certification of these products nor expresses an opinion or endorsement by this laboratory; it is the exclusive property of the client so named herein and relates only to the reported specimens. This letter of results may not be reproduced, except in full, without the written approval of Intertek-ATI.

For INTERTEK-ATI:

Digitally Signed by: Daniel Craig Culbert

Daniel C. Culbert, P.E.
Senior Project Engineer
2018.08.10 14:33:06 -04'00'



Digitally Signed by: Jason Walus

Jason C. Walus, P.E.
Manager – Engineering Services

cc: i3429.02-122-34