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Dear Mr. Chislett,

Subject: 2015 2020 NBC Equivalency Letter

Intertek Testing Services NA Ltd. (Intertek) has conducted a review of the guardrail load requirements referenced in the 2015 and 2020 National Building Code of Canada for equivalency. The findings from the review have been summarized in the table below:

Section 4.1.5.14 – Sentence 1 – 6 Loads on Guards				
Load Criteria	Application	2020 NBC	2015 NBC	Intertek’s Comments
<b>Sentences (1c&amp; 2) - Specified Outward/ Inward Horizontal Load</b>	For Applications Other Than Those Described Above	Outward: Min. 0.75 kN/m or Min. 1.0 kN  Inward: Min. 0.375 kN/m or Min. 0.5 kN	Outward: Min. 0.75 kN/m or Min. 1.0 kN  Inward: Min. 0.375 kN/m or Min. 0.5 kN	Technically equivalent
<b>Sentence (3) - Concentrated Load on Individual Elements</b>	N/A	0.5 kN over an area of 100 mm X 100 mm	0.5 kN over an area of 100 mm X 100 mm	Technically equivalent



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<b>within the Guard at Any Point</b>		Simultaneous load not required with Sentences (1, 2, 6, and 7)	Simultaneous load not required with Sentences (1, 2, and 6)	
<b>Sentence (4) - Specified Horizontal In-Plane Load in Opposite Directions between Any Two Adjacent Vertical Elements</b>	N/A	0.1 kN  Max. 100 mm opening size between two adjacent vertical elements	0.1 kN  Max. 100 mm opening size between two adjacent vertical elements	Technically equivalent
<b>Sentence (6) Specified Vertical Load at the Top</b>	N/A	Min. 1.5 kN/m  Simultaneous load not required with Sentences (1, 3, and 7)	Min. 1.5 kN/m  Simultaneous load not required with Sentence (1)	Technically equivalent
<b>Section 4.1.5.14 – Sentence 7 Loads on Handrails</b>				
<b>Sentence (7) Specified Load at Any Point and in Any Direction</b>	Within Dwelling Units	Min. 0.9 kN	Min. 0.9 kN	Technically equivalent
	Other Than Dwelling Units	Min. 0.7 kN/m	Min. 0.7 kN/m	
<b>Division B – Part 9 Section 9.8.8.2 – Loads on Guards</b>				
<b>Specified Outward/ Inward Horizontal Load at Any Point</b>	Within Dwelling Units and Guards Serving not More Than two Dwelling Units	Min. 0.50 kN/m  or Min. 1.0 kN	Min. 0.50 kN/m  or Min. 1.0 kN	Technically equivalent





<b>Horizontal Load Applied Outward on Elements within the Guard</b>	Within Dwelling Units and Guards Serving not More Than two Dwelling Units	Min. 0.5 kN over a max. area of 300mm X 300mm	Min. 0.5 kN over a max. area of 300mm X 300mm	Technically equivalent
<b>Uniform Vertical Load</b>	Within Dwelling Units and Guards Serving not More Than two Dwelling Units	Min. 1.5 kN/m	Min. 1.5 kN/m	Technically equivalent

Based on the information shown above Intertek can confirm that the guardrail load requirements between the 2015 NBC and 2020 NBC are technically equivalent.

If you have any questions regarding this letter report, please do not hesitate to contact the undersigned.

Sincerely,

**INTERTEK TESTING SERVICES NA LTD.**

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