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November 30, 2012

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Project No. G100978348

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Subject: R&D Testing of Titan Railing 4 X 4 Primus Post Anchor Samples

Dear Mr. Bergman,

This letter represents the results of the evaluation of three (3) Titan Primus 4X 4 anchor samples, evaluated in compression.

Samples evaluated were fastened to twenty (20) inch long SPF posts using 4 equally spaced 3/8" X 5" lags about the centre. The assembly was placed onto the Table of a Universal Testing machine (inventory number 280-01-0015 calibration due Oct 2013) and compressed to the loads found below.

Vertical Compression Test of 4 X 4 Primus Post Anchor

Specimen	Load at initial steel deformation (lbf)	Load at which steel tube contacted table max (lbf)	Max load achieved (lbf)	Comments
3	4800	25000	56880	At maximum load wood split around lags
4	5000	24000	53681	At maximum load wood split around lags
5	4700	22000	51934	At maximum load wood split around lags

This investigation was authorized by signed proposal number 500416834, dated November 26, 2012.

Samples were evaluated on November 29, 2012. Sample preparation and testing was conducted at the Intertek facility located at 6225 Kenway Drive, Mississauga. Ontario.

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.

Reported by: Gabriel Fernandes
Title: Technician

Signature:

Reviewed by: Vern Jones
Title: Technologist

Signature