



May 3, 2004

Ensuro Duradek
8288 129th Street
Surrey, BC V3W 0A6

Attention: Mr. Len Viegner

Re: Uplift Resistance Calculations - Project No.: 3055678-1

Dear Mr. Viegner,

Intertek Testing Services NA Ltd., (Intertek), has conducted an engineering evaluation of existing bond strength test data for Ensuro Duradek. The evaluation was carried out to determine how the test results compare with wind load requirements in the 2003 International Building Code.

SUMMARY OF TEST RESULTS

The 1996 Intertek Test Report 488-5020 (tested under the company name of Inchcape Testing) tested Duradek Ultra 60 mil adhered to Hardi backer board using two different adhesives. The results are summarized as follows:

Adhesive	Average Maximum Load (psi)	Comments
D 763-1	97	Tested after weathering
D194	93	Tested after weathering

The worst-case result demonstrates an average capacity of 93 psi (13,400 psf)

CODE WIND LOADING FOR EXTREME CASE

Components and cladding net design wind loading were determined based on the following criteria:

- 3 Second Gust: 150 mph
- Importance factor: 1.0
- Exposure: D
- Mean Roof Height: 60 ft
- Roof Slope: 0 to 7 degrees
- Roof Zone: 3
- Effective Wind Area: 10

Using Equation 16-35 from the 2003 International Building Code the resulting net pressure is 187 psf.

The resulting factor of safety against uplift of the decking due to wind forces is in excess of 70 times. With proper edge treatment and installation in accordance with the manufacturers instructions, there should be no concern of decking uplift failure due to wind forces.

Should you have any questions or comments, please do not hesitate to contact the undersigned directly.

INTERTEK TESTING SERVICES NA LTD.

Cameron Robinson, P.Eng
Manager - Construction Products Testing

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