

The Intertek logo consists of the word "Intertek" in a white, sans-serif font, enclosed within a black rounded rectangular border.

**ETL SEMKO**

3 May 2006

Mr. Dona Hurry  
Korolite Engineered Panel Structures Ltd.  
19402 56<sup>th</sup> Avenue  
Surrey, BC V3S 6K4

**Re: Project 3091587, Transverse Load Testing of Korolite Engineered Mineral Wool Panels**

Dear Ms. Hurry,

Intertek Testing Services NA Ltd. has conducted testing according to ASTM E72 "Standard Test Methods of Strength for Panels in Building Construction" Section 12 "Transverse Test – Sample Vertical" on Korolite Engineered Panel sampled by Intertek Testing Services NA Ltd. and supplied by Mansonville Plastics BC, Ltd. The Korolite Engineered Panels were identified as panels.

The samples consist of a 0.542cm thick metal skinned adhered to an 11.99cm thick mineral wool core. The adhesive was observed to be an industrial grade epoxy. Following manufacture and sampling, the panels were cured in excess of 30 days before testing.

The following summarizes the results found for the Mineral Wool Panels.

#### **METHODS AND RESULTS**

The test methods of ASTM E72-05 "Standard Test Methods of Conducting Strength Tests of Panels for Building Construction" Section 12 "Transverse Load – Specimen Vertical" were followed for 16 foot panel heights. Before testing, the test samples were held in room conditions for at least 24 hours at a temperature of  $23 \pm 5^{\circ}\text{C}$  and relative humidity of  $50 \pm 20\%$ . The results are shown in Table 1.

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**Intertek Testing Services NA Ltd.**  
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**Table 2. – Test Results for 16 ft Mineral Wool Panel Samples**

Specimen	Ultimate Load (psf)	Ultimate Load (MPa)	Stiffness (lb*in <sup>2</sup> )	Stiffness (kN*m <sup>2</sup> )	Failure Mode
1	33.8	1.6	1500979	620.3	Buckling of panel
2	34.3	1.6	1530365	632.4	Buckling of panel
Mean:	34.1	1.6	1515672	626.4	
COV%:	1.1	1.1	1.4	1.4	

The results for each tested Korolite Engineered Panel can be found in Appendix I.

**CONCLUSION**

Korolite Engineered Panels, when tested in accordance with the mentioned standards, have performed per the results of Table 1.


If you have any questions, please do not hesitate to contact us at 604-520-3321.

**INTERTEK TESTING SERVICES NA LTD.**  
**Warnock Hersey**

Matt Lansdowne, EIT  
Engineer – Construction Products



Chris Bowness, P.Eng.  
Manager – Engineering Services



A formal report will follow upon completion of testing that will include a detailed product description and method of testing.

These test results only apply to the samples tested. This report does not claim the product is currently under Intertek Certification.

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