



January 12, 2004

Ensuro Duradek (Canada) Limited  
8288 – 129<sup>th</sup> Street  
Surrey, BC  
V3W 0A6

Attention: Mr. John Ogilvie

**Re: Duradek Ultra Roof-Deck Product – Class C and Class A Fire Rating**

Dear Mr. Ogilvie,

This letter is to address the Fire Endurance Class Rating of the Duradek Ultra Roof-Deck Product. In 2002, the formulation of the PVC-based product was changed from the composition of the product in 1993, when the original fire qualification testing occurred. Confirmation fire testing has been conducted to re-qualify the product for its pre-existing fire classification. The confirmation testing is discussed further on Page 2 of this letter.

**ORIGINAL FIRE CLASSIFICATION**

The original fire classification of the product, as per the Intertek/Warnock Hersey certification listing, is as follows:

**CLASS "A"**

**Comb. Deck**

**Slope: 1/4:12 (AC-1)**

1. 5/8" Douglas fir tongued and grooved plywood deck.
2. "Hardibacker", a 5/16" thick gypsum based panel.
3. "Ensuro Duradek Vinyl", "ULTRA", fully adhered with "Ensuro Duradek D763" adhesive.

**CLASS "C"**

**Comb. Deck**

**Slope: 1/4:12 (CC-1)**

1. 5/8" Douglas fir tongued and grooved plywood deck.
2. "Ensuro Duradek Vinyl", "ULTRA", fully adhered with "Ensuro Duradek D763" adhesive.

Note: See Page 2 for updated Fire Classification Listing.



**Intertek Testing Services NA Ltd.**

211 Schoolhouse St., Coquitlam, BC V3K 4X9

Telephone: 604-520-3321 Fax: 604-524-9186 Web: www.intertek-ettsemko.com

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CONFIRMATION TESTING

Confirmation testing was conducted by Western Fire Center, Inc., to evaluate the new product as per UBC 15-2. The test deck was assembled as per the above deck configuration for a "Class C" System, tested and passed the qualification requirements. The testing is reported in WFCi Project # 03012, dated May 3, 2003.

Based on these test results, the fire performance of the new formulation product is considered equivalent to the original formulation. Therefore, the product will continue to qualify as a "Class A" System with the above mentioned deck configuration.

ADDITIONAL DECK CONFIGURATION QUALIFICATION

Further to the deck configurations listed on Page 1 of this letter, two additional specifications have been evaluated for qualification. "Ensurco Duradek D194 Adhesive" is also acceptable for use, and Douglas Fir plywood decking with a "butt joint" has also been accepted.

NEW FIRE CLASSIFICATION

As of January 12, 2004, the Intertek/Warnock Hersey certified fire classification of Duradek Ultra Roof Decking is:

**CLASS "A"**

**Comb. Deck**

**Slope: 1/4:12 (AC-1)**

1. 5/8" Douglas fir tongued and grooved or butt jointed plywood deck.
2. "Hardibacker", a 5/16" thick fibre-cement based panel.
3. "Ensurco Duradek Vinyl", "ULTRA", fully adhered with "Ensurco Duradek D763 or D194" adhesive.

**CLASS "C"**

**Comb. Deck**

**Slope: 1/4:12 (CC-1)**

1. 5/8" Douglas fir tongued and grooved or butt jointed plywood deck.
2. "Ensurco Duradek Vinyl", "ULTRA", fully adhered with "Ensurco Duradek D763 or D194" adhesive.

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The fire classification is per the following Nationally Recognized Standards:

- ASTM E-108 - American Society for Testing & Materials 'Standard Methods of Fire Test of Roof Covering'
- FM 4470, Section 5.1.A - Factory Mutual 'Standard Method of Test for Fire Resistance of Roof Covering Materials'
- NFPA 256 - National Fire Protection 'Standard Method of Fire Tests of Roof Covering'
- UBC 15-2-94 - Uniform Building Code 'Test Standard for Determining the Fire Retardancy of Roof Covering Materials'
- ULC-S107 - Underwriters' Laboratories of Canada 'Standard Method of Tests for Fire Resistance of Roof Covering Materials'
- UL 790 - Underwriters' Laboratories Inc. 'Tests for Fire Resistance of Roof Covering Materials'

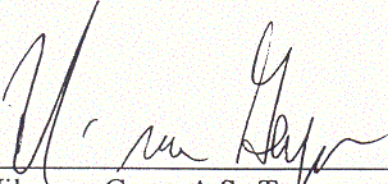
The referenced test reports are included as an appendix to this letter. If you have any questions or concerns regarding this matter, please do not hesitate to contact the undersigned at 1-800-668-TEST.

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

Prepared by:

  
Chris Bowness, EIT  
Engineer, Construction Products Certification

Reviewed by:

  
Mike van Geyn, A.Sc.T.  
Manager – Fire Testing & Technical Programs

CB/bjm