

November 20, 2015

Bryan Hughes Tuff Industries Inc. 9570 Bottom Wood Lake Road Lake Country, BC V4V 1S7 Canada

## Subject: Findings Letter Report 102325470COQ-004

Dear Mr. Hughes,

Intertek Testing Services NA Ltd. (Intertek) has conducted lap joint strength testing on your roofing membrane, identified as Tufdek<sup>™</sup>, in accordance with CAN/CGSB-37.54-95, *Polyvinyl Chloride Roofing and Waterproofing Membrane.* 

Intertek representative, Fred Yasuda, randomly sampled the membrane product on October 19, 2015. The sample selection process was conducted at Tuff Industries Inc., 9570 Bottom Wood Lake Road, Lake Country, BC, V4V 1S7, Canada. The samples were received at the Evaluation Center on October 23, 2015 (Coquitlam ID# VAN1510231052-001).

Testing results can be found in Table 1 below:

| Table 1. Test Results                 |        |             |           |  |  |
|---------------------------------------|--------|-------------|-----------|--|--|
| Property                              | Result | Requirement | Pass/Fail |  |  |
| Breaking Strength, kN/m               |        |             |           |  |  |
| <ul> <li>Machine Direction</li> </ul> | 87     | ≥ 35        | Pass      |  |  |
| <ul> <li>Cross Direction</li> </ul>   | 73     | ≥ 35        | Pass      |  |  |
| Lap Joint Strength, % of As           |        |             |           |  |  |
| Received                              |        |             |           |  |  |
| Side Lap                              | 86     | ≥ 75        | Pass      |  |  |
| End Lap                               | 117    | ≥ 75        | Pass      |  |  |

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.

| Completed by: | Chris Chang, P.Eng.<br>Engineer, | Reviewed by: | Baldeep Sandhu<br>Lab Supervisor, |
|---------------|----------------------------------|--------------|-----------------------------------|
| Title:        | Building Products                | Title:       | Building Products                 |
| Signature:    |                                  | Signature:   | <del>8</del>                      |

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Intertek Testing Services NA, Inc.

sD 12.1.2 8/10/10) Informative

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