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## ELECTRONIC DRAFT COPY

### Determination of Non-Combustibility of "ACRY-NC Panel"

A Report To:	<b>Acrytec Panel Ind.</b> 20 Floral Parkway, Unit B Concord, Ontario L4K 4R1
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Attention:	Mark Buna
Submitted By:	Exova Warringtonfire North America
Report No.	12-002-606 3 pages
Date:	August 28, 2012

**ACCREDITATION** To ISO/IEC 17025 for a defined Scope of Testing by the International Accreditation Service

**SPECIFICATIONS OF ORDER**

Test for non-combustibility in accordance with CAN4-S114-05 "Standard Method of Test for Determination of Non-Combustibility in Building Materials", as per Exova Warringtonfire North America Quotation No. 12-002-07737 accepted August 22, 2012.

**IDENTIFICATION**

Glass fiber reinforced cement board, identified as: "ACRY-NC PANEL".

(Exova sample identification number 12-002-S0606)

**SUMMARY OF TEST PROCEDURE**

A specimen of known mass, measuring 51 mm long, 38 mm wide and 38 mm thick, is placed inside an electrically heated tube furnace stabilized at 750 °C. A material is considered to be non-combustible if it meets all the following criteria:

- A) The mean of the maximum temperature rise for the three (or more) specimens of the sample during the test does not exceed 36 C deg; and
- B) There is no flaming of any of the three (or more) specimens during the last 14 minutes and 30 seconds of the test; and

Note: Any surface flash, transitory flaming or sustained flaming constitutes flaming for the purposes of this requirement.

- C) The maximum weight loss of any of the three (or more) specimens during the test does not exceed 20 percent.

**SAMPLE PREPARATION**

The material was received as specimens of dimensions 38 mm by 38 mm by 16 mm. Three (3) pieces of the material were bound together using nichrome wire to make up the requisite test samples. The test specimens were dried at a temperature of 60 ± 3°C for a 24 h to 48 h period and allowed to cool to room temperature in a dry atmosphere prior to testing.

**TEST RESULTS****CAN4-S114-05**Standard Method of Test for Determination  
of Non-Combustibility in Building Materials

<u>Trial</u>	<u>Maximum Temperature Rise (°C)</u>	<u>Flaming During Last 14:30 min.?</u>	<u>Initial Weight(g)</u>	<u>Final Weight (g)</u>	<u>Percent Weight Loss</u>
1	**	No	66.12	60.60	8.3
2	**	No	65.80	60.29	8.4
3	1.1	No	65.32	60.47	7.4
4	**	No	65.36	60.20	7.9
Mean:	<b>1.1</b>				
Maxima Specified by CAN4-S114:	<b>36</b> (mean)	<b>No</b>			<b>20.0</b> (individual)

\*\* The temperature never exceeded the initial stabilized furnace temperature.

**CONCLUSIONS**

The glass fiber reinforced cement board identified in this report meets all of the specified criteria and therefore can be classified "non-combustible", as defined by CAN/ULC-S114.

**Note: This is an electronic copy of the report. Signatures are on file with the original report.**

Mel Garces,  
Fire Testing.

Ian Smith,  
Fire Testing.

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