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Testing. calibrating. advising

# Determination of Non-Combustibility of "Uncoated Aluminum Siding"

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|---|---|
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| Submitted by: | Exova Warringtonfire North America |
| Report No. | 18-002-123<br>3 Pages |
| Date: | March 6, 2018 |

**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 CAN/ULC-S114-05 "Standard Method of Test for Determination of Non-Combustibility in Building Materials", as per Exova Warringtonfire North America Quotation No. 18-002-547378 accepted March 1, 2018.

**SAMPLE IDENTIFICATION**

Aluminum siding material, identified as "Uncoated Aluminum Siding".

(Exova sample identification number 18-002-S0123)

**SUMMARY OF TEST PROCEDURE**

A specimen of known mass, measuring 50 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 Celsius degrees; and

B) There is no flaming of any of the three (or more) specimens during the last 14.5 minutes 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 in pre-cut samples measuring approximately 38 mm by 38 mm by 1.5 mm and 30 pieces were stacked and wire-bound to make up the requisite test specimens. 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**

**CAN/ULC-S114-05**

Standard Method of Test for Determination

of Non-Combustibility in Building Materials

| Trial | Maximum Temperature Rise (C°) | Flaming During Last 14.5 min.? | Specimen Initial Weight(g) | Specimen Final Weight (g) | **Percent Weight Loss** |
|---|---|---|---|---|---|
| 1 | ** | No | 189.20 | 189.19 | **0.01** |
| 2 | ** | No | 186.48 | 186.47 | **0.01** |
| 3 | ** | No | 186.90 | 186.89 | **0.01** |
| Mean: | ** | | | | |
| Maxima Specified by CAN/ULC-S114: | 36 (mean) | No | | | **20.0** (individual) |

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

**OBSERVATIONS**

In all cases, no ignition was observed.

**CONCLUSIONS**

The aluminum siding identified in this report meets all of the specified criteria and therefore can be classified "Non-combustible", as defined by CAN/ULC-S114.

Mel Garces,
Senior Technologist.

Ian Smith,
Technical Manager.

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