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Determination of Non-Combustibility of "NEOLITH"

A Report To:

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Attention:

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Submitted By:

Exova Warringtonfire North America

Report No.

13-002-151

3 pages

Date:

March 20, 2013

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. 13-002-157,103 dated March 11, 2013.

IDENTIFICATION

Sintered ceramic / porcelain material identified as:
"NEOLITH - by The Size"

(Exova sample identification number 13-002-S0151)

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 test material was received as pre-cut specimens having dimensions 38 mm by 38 mm by 7 mm. Seven (7) samples were bound together using nichrome wire to make up the requisite test samples. The test specimens were dried at a temperature of $60 \pm 3^{\circ}\text{C}$ 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

<u>Trial</u>	<u>Maximum Temperature Rise (C deg)</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	176.75	176.36	0.2
2	**	No	179.39	179.39	0.0
3	<u>0.9</u>	No	174.80	174.80	0.0
Mean:	0.3				
Maxima Specified by CAN4-S114:	36 (mean)	No			20.0 (individual)

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

OBSERVATIONS

In all cases, no visible signs of ignition was observed.

CONCLUSIONS

The sintered ceramic / porcelain material 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,
Senior Technologist.

Ian Smith,
Technical Manager.

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