Intertek ETL SEMKO

EINSULATION.COM, INC.

EXECUTIVE SUMMARY OF INTERTEK REPORT NO. 3068060, DATED NOVEMBER 17, 2004

Introduction

On November 10 and 11, 2004, Intertek Testing Services NA Ltd./Warnock Hersey conducted a flame spread test program to determine the surface burning characteristics of a fibreglass pipe insulation. The material tested was selected, prepared, and submitted by Einsulation.com, Inc.

Testing was conducted in accordance with CAN/ULC S102-03; *Method of Test for Surface Burning Characteristics of Building Materials and Assemblies*. Three trial runs were conducted on the sample material.

Material Tested

The material tested measured 3-1/2 in. in circumference by 36 in. long. The product consisted of fibreglass pipe insulation with white scrim outer facing, which was wrapped around yellow fibreglass insulation. The foil was adhered to itself after overlapping 1-1/4 in.

The fibreglass insulation measured 1 in. in thickness. It was rolled to an outside diameter of 3-12 in. and uses the aluminium foil scrim to hold the insulation in place. The through-opening of the insulation measured 1-5/8 in. inside diameter.

For each trial run, five pieces of sample material were placed side by side to create a width of 17-1/2 in. Two 1/4 in. steel rods were place through the top third of the insulation, 1 in. from each end, to hold the pieces up during the test. Eight lengths were placed end to end to create the required 24 ft. sample length. A layer of 6mm reinforced cement board was placed on the top ledge of the flame spread tunnel, the tunnel lid was lowered into place, and the samples were tested in accordance with CAN/ULC S102-03.

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Test Results

FLAME SPREAD

The resultant flame spread classifications are as follows: (classification rounded to nearest 5)

Fibreglass Pipe Insulation	Flame Spread	Flame Spread Classification
Run 1	8	5
Run 2	8	
Run 3	3	

SMOKE DEVELOPED

The resultant smoke developed classifications are as follows: (classification rounded to nearest 5)

Fibreglass Pipe Insulation	Smoke Developed	Smoked Developed Classification
Run 1	27	20
Run 2	23	
Run 3	15	

Conclusion

The samples of fibreglass pipe insulation with white scrim outer facing, submitted by Einsulation.com, Inc., exhibited the following flame spread characteristics when tested in accordance with CAN/ULC S102-03; *Method of Test for Surface Burning Characteristics of Building Materials and Assemblies*.

Sample Material	Flame Spread Classification	Smoke Developed Classification
Fibreglass Pipe Insulation	5	20

INTERTEK TESTING SERVICES NA LTD.

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