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Fire Testing Results



Fire Resistant Polyurethane Foam – Earthseal 0.5R



Introduction

This report describes the results of the test procedure that was performed on two formulations of spray foam insulation. The purpose of testing was to compare the fire performance characteristics of different crawl space insulation formulas as compared to a "calibration" test.

Three tests were conducted. The first was a "calibration" (No insulation) test in which a bare floor joist/plywood and stud/plywood systems was tested to failure to obtain the failure time. The second and third tests involved the same setup with 11.5 in thickness of Apex Foam Earthseal 0.5R sprayed into the joist cavities. These tests were conducted to compare failure times to the calibration deck.

The following tests are official third party audited testing

SWRI Procedure 99-02

Test A: Calibration Test. Un-insulated Floor Joist System. No Foam:

It is finally
here!

The Next Generation In Spray
Foam Is COMING!



Calibration Test Set Up



6:00 Minutes: Steady Flames Exiting The Front Of Crawl Space

Post Calibration Test surface.

Test B: Apex Foam's Earthseal 0.5:



1:40 Minutes: Flames impinging foam surface no ignition of foam.



3:40 Minutes: Intermittent ignition of foam.



8:30 Minutes: Foam Ignition Ceased.



9:50 Minutes: No burn through.

Conclusion:

The results of the fire tests indicate the amazing fire resistance properties on the part of the Apex's Earthseal 0.5R product. **These results are groundbreaking.** A typical foam product that passes this test records only a matter minutes better than the bare plywood / calibration test. This is the first spray foam insulation product ever to last so long that the flame source extinguished itself. In order to test a material of this nature the testing procedure would have to be reviewed. These tests are made to the expected failure point of the product. **Apex Foam Industries' Earthseal 0.5R Superior flame properties outlasted the official test.**