



**Acoustic and Insulation
Product Testing Laboratories**

2790 Columbus Road, Granville, OH 43023

Client: Kinetics Noise Control, Inc.
Attn.: Norman Varney
6300 Irelan Place
Dublin, OH 43017

REPORT NO. A160027
Proposal NO. A16010
Date: June 8, 2016

Title: Characterization of Kinetics™ Sound Damp2 tested per ASTM E84

Type of Service: **Material Characterization**

Purpose:

Determine the surface burning characteristics of Kinetics™ Sound Damp2 as tested per ASTM E84-15b.

Data for this report was obtained under Work Order A160026.

Samples Submitted:

1. Kinetics™ Sound Damp2 Constrained Layer Viscoelastic Damping Compound adhered to 0.25-in. thick HardiBacker cement board substrate
Description – 6pcs, 48-in. length, 23.5-in. wide and 0.25-in. thick.

Summary of Test Results:

Physical Property	Test Method	Result
Surface Burning	ASTM E84	Sample 1: Kinetics™ Sound Damp2 Constrained Layer Viscoelastic Damping Compound adhered to 0.25-in. thick HardiBacker cement board substrate Flame Spread Index = 15 Smoke Developed Index = 45



This laboratory (NVLAP Lab Code 100109-0) is accredited by NVLAP of the National Institute of Standards and Technology for specified tests in accordance with prescribed test methods and accreditation criteria. The NVLAP logo and/or this report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government for the product tests referenced herein.

The information provided herein is based on controlled laboratory conditions. The test specimen identification is as provided by the client and Owens Corning Acoustic and Insulation Product Testing Laboratories accepts no responsibility for any inaccuracies therein. Owens Corning Acoustic and Insulation Product Testing Laboratories makes no warranty that the results provided herein are representative of actual use conditions. Each user should independently evaluate the data provided and make their own decision as to whether the data is reliable and representative for their service conditions.

Owens Corning Acoustic and Insulation Product Testing Laboratories authorizes the client named herein to reproduce this report only in its entirety. Testing results apply only to material specimens evaluated within this report.

Testing Method:**ASTM E84**

The results described in this report were obtained per ASTM E84-15b Standard Test Method for SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS; Volume 04.07 of the American Society for Testing and Materials (ASTM). This procedure is the responsibility of ASTM Committee E5 on Fire Standards.

ASTM E84 describes a method for determining the comparative surface burning behavior of building materials. This test is applicable to exposed surfaces such as walls and ceilings, and is evaluated in the ceiling position with the test surface exposed face down to the ignition source. The material, product, or assembly must be capable of being mounted in the test position by either being self-supporting by its own structural quality, or held in place by added supports along the test surface, or secured from the back side.

Test specimen size per test:

Width between 20 to 24 inches; Length 24 feet; Maximum Thickness 4-in.

(Width between 508 to 610 mm; Length 7.3 meters; Maximum Thickness 101 mm)

The purpose of this test method is to determine the relative burning behavior of the material by observing the flame spread along the specimen. Flame spread and smoke developed index are reported. However, there is not necessarily a relationship between these two measurements.

ASTM E84 is also published under the following designations:

- UL 723
- ANSI 2.5
- UBC 8-1 (42-1)

ASTM Caveat

This standard should be used to measure and describe the properties of materials, products, or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or the fire risk of the materials, products, or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use.

Accuracy and Accreditation

Consult ASTM Test Method E84 for the Precision and Bias of these tests. Data listed in ASTM Test Method E84, Table 1, Within-Laboratory (Repeatability), and Table 2, Between-Laboratory (Reproducibility) were calculated in accordance with ASTM Practice E691 and ISO 5725. These tables address the precision on Flame Spread Index. At this time there is no data presented addressing Smoke Developed Index.

Test Results*ASTM E84-15b*

Sample	Description	Flame Spread Index	Smoke Developed Index
1 Test 1	Kinetics™ Sound Damp2 Constrained Layer Viscoelastic Damping Compound adhered to 0.25-in. thick HardiBacker cement board substrate	15	45

Continuous or Sectioned Sample

Sample consisted of six sectioned pieces, pieces were 48-in. in length, 0.25-in thick butted end-to-end.

Mounting Method

Sample was self-supporting

Test Dates

5/18/16

Signature On File

Jason C. Bragg
Owens Corning
Acoustic and Insulation Product
Testing Laboratories

Kevin Herreman
Owens Corning
Acoustic and Insulation Product
Testing Laboratories