



Standard Test Methods for Fire Resistive Grease Duct Enclosure Systems¹

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INTRODUCTION

The protection of grease ducts under fire exposure conditions is an item of importance in securing constructions that are safe, and that are not a menace to neighboring construction nor to the public. Recognition of this is registered in the codes of many authorities, municipal and other agencies. Many types of enclosure materials are used to protect grease ducts. Normally, these enclosure materials are either applied to grease ducts in the field or are fabricated as part of the grease duct when shipped from the factory. Evaluating enclosure materials used to protect a grease duct from fire is an aid for predicting their fire performance and promotes uniformity in requirements of various authorities. To do this it is necessary that the fire-endurance properties of enclosure materials be measured and specified according to a common standard expressed in terms that are applicable alike to a wide variety of materials, situations, and conditions of exposure.

1. Scope

NOTE 1—The majority of this standard is based on the Model Building Code Evaluation Service² Acceptance Criteria titled *ACCEPTANCE CRITERIA FOR GREASE DUCT ENCLOSURE ASSEMBLIES, AC101*, which was created in 1994. Numerous design listings and labeled materials exist based on the provisions of this standard.

1.1 These test methods evaluate the enclosure materials and the grease duct enclosure systems using the following test methods: noncombustibility, fire resistance, durability, internal fire, and fire-engulfment with a through-penetration fire stop.

1.2 These test methods prescribe a standardized fire exposure for comparing the test results of the enclosure materials and grease duct enclosure systems. The results of these tests are one factor in assessing predicted fire performance of grease duct enclosure systems. Using these test results to predict the performance of actual grease duct enclosure systems requires the evaluation of test conditions.

1.3 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.4 The text of these test methods references notes and footnotes which provide explanatory material. These notes and

footnotes (excluding those in tables and figures) shall not be considered as requirements of the fire test response standard.

1.5 These test methods are used to measure and describe the response of materials, products, or assemblies to heat and flame under controlled conditions, but does not by itself incorporate all factors required for fire hazard or fire risk assessment of the materials, products, or assemblies under actual fire conditions.

1.6 These test methods do not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of these test methods to establish appropriate safety and health practices and to determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

2.1 ASTM Standards:³

- C518** Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
- C569** Test Method for Indentation Hardness of Preformed Thermal Insulations (Withdrawn 1988)⁴
- E84** Test Method for Surface Burning Characteristics of Building Materials
- E119** Test Methods for Fire Tests of Building Construction and Materials

¹ This test method is under the jurisdiction of ASTM Committee E05 on Fire Standards and is the direct responsibility of Subcommittee E05.11 on Fire Resistance.

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² ICC Evaluation Service, Inc. (ICBO Evaluation Service, Inc.) 5360 Workman Mill Road, Whittier, CA 90601-2298

³ For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

⁴ The last approved version of this historical standard is referenced on www.astm.org.