

NFPA 105

Standard for the Installation of Smoke Door Assemblies and Other Opening Protectives

2007 Edition



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An International Codes and Standards Organization

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NFPA 105

Standard for the

Installation of Smoke Door Assemblies and Other Opening Protectives

2007 Edition

This edition of NFPA 105, *Standard for the Installation of Smoke Door Assemblies and Other Opening Protectives*, was prepared by the Technical Committee on Fire Doors and Windows and acted on by NFPA at its June Association Technical Meeting held June 4–8, 2006, in Orlando, FL. It was issued by the Standards Council on July 28, 2006, with an effective date of August 17, 2006, and supersedes all previous editions.

A tentative interim amendment (TIA) to Section 6.5 was issued on July 28, 2006. For further information on tentative interim amendments, see Section 5 of the NFPA Regulations Governing Committee Projects available at:

<http://www.nfpa.org/assets/files/PDF/CodesStandards/TIAErrataFI/TIAREgs.pdf>

This edition of NFPA 105 was approved as an American National Standard on August 17, 2006.

Origin and Development of NFPA 105

This publication is the result of a multiyear project by the Technical Committee on Fire Doors and Windows and is based on the acknowledgment that smoke is the principal killer in destructive fires. Historically, fire doors have been permitted to have such clearances and deflections as would permit the passage of relatively great quantities of smoke. Those fire doors, when properly installed, have proven to be adequate barriers against the passage of fire, but improvement was needed to protect against the passage of smoke. The first edition of the recommended practice was prepared to introduce parameters for door performance that would limit smoke spread through a door opening.

The 1993 edition was the third edition. It made use of new information that recognized that smoke-control doors in buildings protected by automatic sprinklers will have substantially lower pressures created by a potential fire.

The 1999 edition included modifications to address the pressure differentials caused by stack effect in elevator hoistways.

The 2003 edition incorporated formatting updates to comply with the *Manual of Style for NFPA Technical Committee Documents* requirements, as well as formatting requirements for conversion from a recommended practice to a standard. The 2003 edition also included significant modifications to Chapter 4 on installation and testing requirements, and Chapter 5 on maintenance requirements. Annex A contained a considerable amount of new and updated information.

The 2007 edition includes the expansion of the scope of the document to include smoke dampers. The title of the document has been revised, and new chapters on the installation, inspection, testing, and maintenance of smoke dampers have been provided. Other technical changes address the retention of maintenance records for smoke door assemblies.

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NOTE: Membership on a committee shall not in and of itself constitute an endorsement of the Association or any document developed by the committee on which the member serves.

Committee Scope: This Committee shall have primary responsibility for documents on the installation and maintenance of fire doors, windows, shutters, and other equipment used to restrict the spread of fire, including arrangements for automatic operation in case of fire. This includes installation to protect buildings against external fire and to restrict the spread of fire within buildings. Vault and record room doors are covered by the Technical Committee on Record Protection.



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