ADDENDA

ANSI/ASHRAE/IES Addendum dg to
ANSI/ASHRAE/IES Standard 90.1-2013

Energy Standard for Buildings Except Low-Rise Residential Buildings

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FOREWORD

This revision to Standard 90.1 provides guidance on the air leakage requirements of two new types of entrance doors, aligns the text of Standard 90.1 with the testing protocol required for sectional and metal coiling doors, and provides default U-factors for unlabeled metal nonswinging doors

Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and strikethrough (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum dg to 90.1-2013

Revise the Standard as follows (I-P and SI):

5.4.3.2 Fenestration and Doors. Air leakage for fenestration and doors shall be determined in accordance with AAMA/WDMA/CSA 101/I.S.2/A440, NFRC 400, or ASTM E283 as specified below. Air leakage shall be determined by a laboratory accredited by a nationally recognized accreditation organization, such as the National Fenestration Rating Council, and shall be labeled and certified by the manufacturer. Air leakage shall not exceed:

a. 1.0 cfm/ft^2 (18.3 m^3/h x m^2) for glazed swinging entrance doors, glazed power-operated sliding entrance doors, glazed power-operated folding entrance doors, and revolving doors, tested at a pressure of at least 1.57 pounds per square foot (psf) (75 Pa) in accordance with AAMA/WDMA/CSA 101/I.S.2/A440, NFRC 400, or ASTM E283.

(Remainder of Section 5.4.3.2 unchanged)

Revise Section 5.8.2.3 as shown, Exception 4 (I-P and SI):

4. For *sectional garage doors* and *metal coiling doors*, ANSI/DASMA 105 shall be an acceptable alternative for determining *U-factors*.

Revise Section A7 as shown (I-P and SI):

A7. OPAQUE DOORS

All *opaque doors* with *U-factors* determined, certified and labeled in accordance with NFRC 100 or ANSI/DASMA 105 shall be assigned those *U-factors*.

A7.1 Unlabeled Opaque Doors. Unlabeled opaque doors shall be assigned the following U-factors:

a. Uninsulated single-layer metal swinging doors or non-swinging doors, including single-layer uninsulated access hatches and uninsulated smoke vents: U-1.45 (U-8.2)

b. Insulated double-layer *metal coiling doors*: U-1.00 (U-5.68)

~~b~~c. Uninsulated double-layer metal swinging doors or non-swinging doors, including double-layer uninsulated access hatches and uninsulated smoke vents: U-0.70 (U-4.0)

~~c~~d. Insulated metal swinging doors, including fire-rated doors, insulated access hatches, ~~and~~ insulated smoke vents, and other insulated *metal nonswinging* doors: U-0.50 (U-2.8)

~~d~~e. Wood doors, minimum nominal thickness of 1.75 in. (44 mm), including panel doors with minimum panel thickness of 1.125 in. (28 mm), solid core flush doors, and hollow core flush doors: U-0.50 (U-2.8)

~~e~~f. Any other wood door: U-0.60 (U-3.4)

POLICY STATEMENT DEFINING ASHRAE'S CONCERN FOR THE ENVIRONMENTAL IMPACT OF ITS ACTIVITIES

ASHRAE is concerned with the impact of its members' activities on both the indoor and outdoor environment. ASHRAE's members will strive to minimize any possible deleterious effect on the indoor and outdoor environment of the systems and components in their responsibility while maximizing the beneficial effects these systems provide, consistent with accepted Standards and the practical state of the art.

ASHRAE's short-range goal is to ensure that the systems and components within its scope do not impact the indoor and outdoor environment to a greater extent than specified by the Standards and Guidelines as established by itself and other responsible bodies.

As an ongoing goal, ASHRAE will, through its Standards Committee and extensive Technical Committee structure, continue to generate up-to-date Standards and Guidelines where appropriate and adopt, recommend, and promote those new and revised Standards developed by other responsible organizations.

Through its *Handbook*, appropriate chapters will contain up-to-date Standards and design considerations as the material is systematically revised.

ASHRAE will take the lead with respect to dissemination of environmental information of its primary interest and will seek out and disseminate information from other responsible organizations that is pertinent, as guides to updating Standards and Guidelines.

The effects of the design and selection of equipment and systems will be considered within the scope of the system's intended use and expected misuse. The disposal of hazardous materials, if any, will also be considered.

ASHRAE's primary concern for environmental impact will be at the site where equipment within ASHRAE's scope operates. However, energy source selection and the possible environmental impact due to the energy source and energy transportation will be considered where possible. Recommendations concerning energy source selection should be made by its members.

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