ADDENDA

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

Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved by the ASHRAE Standards Committee on August 24, 2016; by the ASHRAE Tech Council on August 29, 2016; by the IES Board of Directors on September 26, 2016; and by the American National Standards Institute on August 30, 2016.

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ASHRAE® IES Illuminating ENGINEERING SOCIETY Approved American National Standard ANSI www.ansi.org

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FOREWORD

Currently, the lighting section of Standard 90.1 does not specifically address light-emitting diode (LED) technology. In most cases this is not an issue, as the requirements are generally technology-neutral. However, in one case, the term for the electronics that make LED technology work ("driver") is specific in the industry and for clarity should be included in the standard.

[Note: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes..]

Addendum ej to 90.1-2013

Modify the standard as follows (I-P and SI):

3.2 Definitions

driver*:* a device designed to operate a solid-state (e.g. LED) light source.

fixture: the component of a luminaire that houses the lamp or lamps or positions the lamp, shields it from view, and distributes the light. The fixture also provides for connection to the power supply, which may require the use of a ballast/driver.

3.3 Abbreviations and Acronyms

…

kVA kilovolt-ampere

LED light-emitting diode

lin linear

…

6.4.5 Walk-In Coolers and Freezers.

……

Exception:

…….

f. Lights shall use light sources with an efficacy of 40 lm/W or more, including ballast/*driver* losses (if any). Light sources with ~~an~~ lower efficacy ~~of less than 40 lm/W, including ballast losses (if any),~~ may be used in conjunction with a timer or device that turns off the lights within 15 minutes of when the walk-in cooler or walk-in freezer is not occupied by people.

9.1.2 Lighting Alterations. …….

……This requirement shall also be met for alterations that involve only the replacement of lamps plus ballasts/*drivers*. Alterations do not include routine maintenance or repair situations.

9.1.3 Installed Lighting Power. The luminaire wattage for all interior and exterior applications shall include all power used by the luminaires, including lamps, ballasts/*drivers*, transformers, and control devices, except as specifically exempted in Section 9.1.1, 9.2.2.3, or 9.4.2.

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9.1.4 Interior and Exterior Luminaire Wattage. …..

……

b. The wattage of luminaires with permanently installed or remote ballasts/*drivers*, transformers, or similar devices shall be the operating input wattage of the maximum lamp/auxiliary combination based on values from the auxiliary manufacturers' literature or recognized testing laboratories or shall be the maximum labeled wattage of the luminaire.

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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