



**BSR/ASHRAE/IES Addendum h  
to ANSI/ASHRAE/IES Standard 90.1-2019**

**Public Review Draft**

# **Proposed Addendum h to Standard 90.1-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings**

**First Public Review (March 2020)  
(Draft Shows Proposed Changes to Current Standard)**

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## FOREWORD

This addendum impacts an optional performance path in the standard designed to provide increased flexibility and therefore was not subjected to cost effectiveness analysis.

*[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~striketrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.]*

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Section 4.2.1.1 requires calculating the area-weighted average BPF for mixed use buildings that have several building area types. However, there are several different types of areas defined in the standard - gross floor area, gross conditioned floor area, gross lighted floor area, etc., and it is unclear which area applies in this case. The proposed addendum clarifies that the gross floor area should be used when calculating the area-weighted BPF. Based on the definition in Section 3, this includes area of conditioned, semi-heated and unconditioned spaces, but excludes the area of un-enclosed spaces such as crawlspaces, attics, and parking garages with natural or mechanical ventilation.

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## Addendum h to 90.1-2019

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*Revise the Standard as follows (IP Units)*

### 4.2 Compliance

#### 4.2.1 Compliance Paths

##### 4.2.1.1 New Buildings

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BPF = *building* performance factor from Table [4.2.1.1](#). For *building* area types not listed in Table [4.2.1.1](#) use “All others.” Where a *building* has multiple *building* area types, the required BPF shall be equal to the area-weighted average of the *building* area types based on their gross floor area.

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