

ADDENDA

**ANSI/ASHRAE/IES Addendum ci to
ANSI/ASHRAE/IES Standard 90.1-2022**

Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings

Approved by ASHRAE and by the American National Standards Institute on October 31, 2025; and by the Illuminating Engineering Society on October 21, 2025.

This addendum was approved by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the standard. Instructions for how to submit a change can be found on the ASHRAE® website (<https://www.ashrae.org/continuous-maintenance>).

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FOREWORD

Addendum ci updates the building performance factors (BPFs) used for determining compliance with Normative Appendix G (see Section 4.2.1.1). The BPFs represent the regulated energy savings of a design minimally compliant with the current edition of Standard 90.1 as compared to a design compliant with Appendix G Performance Rating Method baseline requirements. The BPFs are updated each cycle to align with changes made to the prescriptive and mandatory requirements of the standard as quantified by energy simulation using prototype building models approved by SSPC 90.1 (www.energycodes.gov/prototype-building-models).

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

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

Addendum ci to Standard 90.1-2022

Replace Table 4.2.1.1 as shown (I-P and SI).

Table 4.2.1.1 Building Performance Factor (BPF)

Building Area Type	Climate Zone																		
	0A	0B	1A	1B	2A	2B	3A	3B	3C	4A	4B	4C	5A	5B	5C	6A	6B	7	8
Multifamily	0.69	0.68	0.71	0.70	0.72	0.72	0.71	0.76	0.63	0.69	0.76	0.71	0.66	0.72	0.71	0.65	0.67	0.65	0.67
Health care/hospital	0.69	0.69	0.70	0.68	0.67	0.65	0.65	0.66	0.64	0.64	0.66	0.63	0.67	0.65	0.65	0.66	0.67	0.68	0.70
Hotel/motel	0.66	0.66	0.69	0.65	0.65	0.64	0.64	0.65	0.65	0.63	0.65	0.63	0.62	0.63	0.62	0.61	0.62	0.59	0.58
Office	0.54	0.54	0.53	0.52	0.52	0.52	0.50	0.54	0.48	0.48	0.53	0.48	0.49	0.52	0.48	0.48	0.49	0.46	0.48
Restaurant	0.62	0.59	0.57	0.57	0.57	0.53	0.57	0.53	0.51	0.55	0.54	0.54	0.57	0.56	0.55	0.59	0.58	0.61	0.64
Retail	0.51	0.49	0.48	0.48	0.44	0.43	0.43	0.43	0.44	0.42	0.43	0.46	0.43	0.42	0.47	0.43	0.43	0.41	0.44
School	0.52	0.57	0.57	0.56	0.52	0.53	0.52	0.49	0.50	0.46	0.47	0.47	0.47	0.46	0.46	0.46	0.44	0.45	0.45
Warehouse	0.26	0.26	0.22	0.25	0.21	0.22	0.25	0.21	0.19	0.25	0.22	0.22	0.28	0.24	0.22	0.31	0.28	0.29	0.32
All others	0.62	0.60	0.62	0.59	0.55	0.51	0.53	0.52	0.55	0.53	0.52	0.55	0.53	0.53	0.56	0.54	0.54	0.54	0.54

Table 4.2.1.1 Building Performance Factor (BPF)

Building Area Type	Climate Zone																		
	0A	0B	1A	1B	2A	2B	3A	3B	3C	4A	4B	4C	5A	5B	5C	6A	6B	7	8
Multifamily	0.61	0.57	0.60	0.57	0.59	0.57	0.58	0.58	0.46	0.55	0.57	0.55	0.54	0.56	0.57	0.53	0.53	0.54	0.59
Health care/hospital	0.60	0.59	0.59	0.60	0.60	0.60	0.58	0.59	0.56	0.56	0.57	0.58	0.58	0.57	0.53	0.57	0.55	0.55	0.57
Hotel/motel	0.58	0.56	0.57	0.56	0.55	0.54	0.54	0.54	0.53	0.53	0.53	0.52	0.53	0.53	0.53	0.53	0.53	0.52	0.53
Office	0.43	0.42	0.40	0.41	0.37	0.39	0.37	0.38	0.35	0.35	0.37	0.36	0.37	0.37	0.37	0.38	0.36	0.36	0.39
Restaurant	0.57	0.55	0.56	0.55	0.55	0.55	0.58	0.56	0.54	0.59	0.57	0.60	0.62	0.59	0.61	0.63	0.61	0.64	0.67
Retail	0.41	0.40	0.38	0.39	0.33	0.34	0.34	0.34	0.34	0.35	0.36	0.37	0.36	0.36	0.38	0.37	0.37	0.38	0.41
School	0.45	0.45	0.43	0.44	0.41	0.43	0.43	0.39	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.38	0.41
Warehouse	0.24	0.25	0.21	0.24	0.20	0.21	0.24	0.21	0.18	0.24	0.21	0.21	0.28	0.24	0.22	0.31	0.28	0.29	0.32
All others	0.53	0.51	0.50	0.51	0.44	0.42	0.43	0.42	0.42	0.43	0.42	0.44	0.44	0.43	0.45	0.44	0.44	0.45	0.47

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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.

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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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