

BSR/ASHRAE/IES Addendum df to ANSI/ASHRAE/IES Standard 90.1-2022

# **Public Review Draft**

# Proposed Addendum df to Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings

First Public Review (August 2025) (Draft Shows Proposed Changes to Current Standard)

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## **FOREWORD**

This addendum updates envelope modeling rules for Section 12 budget design to reflect the current prescriptive requirements in Section 5.

[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by <u>underlining</u> (for additions) and <u>strikethrough</u> (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.]

# Addendum df to 90.1-2022

Modif	y Section	12 as	follows:

**12.2 Compliance.** The proposed *building* design shall comply with all of the following:

a. S	Sections	<u>4.2.3,</u>	<u>4.2.4,</u>	_5.2.1,	6.2.1,	7.2.1,	8.2.1,	9.2.1,	and	10.2.1.	,
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12.7 Submittals

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12.7.3 Completion Requirements. Completion requirements shall be in compliance with Sections 5.7.3, 6.7.3, 7.7.3, 8.7.3, 9.7.3, and 10.7.3.

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Proposed Design (Column A)	Budget Building Design (Column B)				
Design Energy Cost (DEC)	Energy Cost Budget (ECB)				
5. Building Envelope					
	The budget building design shall have identical conditioned floor area and identical exterior dimensions and orientations as the proposed design, except as follows:  a. Opaque assemblies, such as roof, floors, doors, and walls, shall be modeled as having the same heat capacity as the proposed design but with the minimum U-factor required in Section 5.5 for new buildings or additions and Section 5.1.4 for alterations.  d. No shading projections are to be modeled. Manual fenestration shading devices such as blinds or shades are not required to be modeled. Automatically				
	controlled <i>fenestration</i> shading devices shall not be modeled. <i>Fenestration</i> shall be assumed to be flush				

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with the wall or roof. If the fenestra-tion area for new buildings or additions exceeds the maxi- mum allowed by Section 5.5.4.2, the area shall be reduced proportionally along each exposure until the limit set in Sec- tion 5.5.4.2 is met. If the *vertical fenestration* area facing west or east of the proposed design exceeds the area limit set in Section 5.5.4.5 then the energy cost budget shall be gener- ated by simulating the budget building design with its actual orientation and again after rotating the entire budget building design 90, 180, and 270 degrees and then averaging the results. Fenestration U-factor, SHGC and VT shall be equal to the criteria from Tables 5.5-0 through 5.5-8 for the appropriate climate, and the SHGC shall be equal to the criteria from Tables 5.5-0 through 5.5 8 for the appropriate climate. For portions of those tables where there are no SHGC requirements, the SHGC shall be equal to that determined in accordance with Section C3.6(d). The VT shall be equal to that determined in accordance with Section C3.6(d). The fenestration model for building envelope alterations shall reflect the limitations on area, *U-factor*, and *SHGC* as described in Section 5.1.4.

e. Skylights shall be included in each thermal block when as required by Section 5.5.4.2.3 and meet the required VT.

Exception: When trade offs are made between an addition and an existing building, as described in the exception to Section 4.2.1.2, the building envelope assumptions for the existing building in the budget building design shall reflect existing conditions prior to any revisions that are part of this permit.