

Public Review Draft

Proposed Addendum e to Standard 189.1-2023

Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings

Second Public Review (January 2025)
(Draft Shows Proposed Independent Substantive
Changes to Previous Public Review Draft)

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ASHRAE, 180 Technology Pkwy NW, Peachtree Corners, GA 30092



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Foreword

Addendum e ISC makes modifications based on comments from the first public review. The first change is to use the more general term 'roof' and not the italicized term that restricts the provisions to locations that are defined in the 90.1 definition. Therefore, the term is changed in 5.3.5.3 (a) and (b) for it to be consistently applied. In addition, summer solstice is clear in this context. The second change is modification of exception for stone ballasted roofs that reinstates a minimum weight of 17 lb/ft² (83 kg/m²) in climate zones 4A and 4B.

[Note to Reviewers: 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. 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 e, 2nd PR ISC to 189.1-2023

Modify Section 5.3.5.3 as follows:

5.3.5.3 Roofs. Roof surfaces for *building projects* in Climate Zones 0, 1, 2, 3, 4A, and 4B shall be covered with products that

- a. have a minimum three-year-aged *SRI* of 64 in accordance with Section 5.3.5.4 for ~~roofs~~ roofs with a slope of less than 2:12.
- b. have a minimum three-year-aged *SRI* of 25 in accordance with Section 5.3.5.4 for ~~roofs~~ roofs with a slope 2:12 or greater.

Exceptions to 5.3.5.3:

1. Roofs where not less than 75% of the roof surface is shaded during the peak sun angle on the summer solstice (~~June 21 in the northern hemisphere~~) by permanent components or features of the *building*, including adjacent buildings or structures.
 2. Existing buildings in Climate Zones 4A and 4B undergoing roof replacement.
 3. Roofs with exposed concrete used as a parking deck, provided that they have a minimum initial *SRI* of 29. A default *SRI* value of 35 for new concrete without added color pigment is allowed to be used instead of measurements.
 4. Stone ballasted roofs ~~roofs~~ in Climate Zones 4A and 4B having a weight of not less than 17 lb/ft² (83 kg/m²).
 5. Portions of the roof covered by permanently installed objects such as HVAC systems, solar energy systems, decks, and walkways.
 6. Vegetated terrace and roofing systems complying with Section 5.3.5.5.
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