

Public Review Draft

Proposed Addendum y to Standard 189.1-2017

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

Second Public Review Draft (August 2019)
(Draft Shows Proposed Independent Substantive
Changes to Previous Public Review Draft)

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Foreword

Addendum y addresses situations where wall-mounted mechanical equipment defined in ASHRAE 90.1, Table 6.8.1-4, can account for a significant portion of the wall area. For example, Packaged Terminal Air Conditioners (PTACs) can cover as much as 20% of the wall area, having a significant impact on the thermal performance of the wall. This independent substantive change (ISC) to addendum y clarifies how to calculate penetration area in accordance with ASHRAE 90.1, Section 5.5.3. It also increases the threshold for triggering the proposed requirements.

[Note to Reviewers: This public review draft makes proposed independent substantive changes to the previous public review draft. 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.]

Addendum y to 189.1-2017

Revise Section 7.4.2.2 as follows:

7.4.2.2. Mechanical Equipment Penetration Requirements. Where the total area of penetrations from mechanical equipment listed in ANSI/ASHRAE/IES Standard 90.1, Table 6.8.1-4 exceeds 24% of the opaque above-grade wall area, the mechanical equipment penetration area shall be calculated as a separate assembly with a published U-factor value for that equipment or a default U-factor of 0.5 Btu/h·ft²·°F (3 W/m²·K) in accordance with ANSI/ASHRAE/IES Standard 90.1, Section 5.5.3 method b. Where Exception 2 to ANSI/ASHRAE/IES Standard 90.1 Section 5.5.3 is used for compliance, the penetration shall be considered to be the same class of construction as an adjacent wall.