

ASHRAE 62.1 Addendum

Nearly two years ago, at the summer meeting in Albuquerque, New Mexico, ASHRAE Standard 62.1 was modified to award UFAD systems a Ventilation Effectiveness credit of 1.2

Prior to this change, only displacement ventilation received that credit. Now with 1.2 VE, UFAD can make a case for 20% less OA required. Refer to the actual language on the following page; requirement is that the diffuser has a vertical throw of less than or equal to 50 fpm at 4.5 ft above the floor.

Most FlexSys diffusers meet this criteria; it is important to make specifiers aware of this change and that FlexSys diffusers comply and qualify for the 1.2 VE credit. This is especially important when the design team is looking for LEED credits.

BSR/ASHRAE Addendum a to ANSI/ASHRAE Standard 62.1-2010, *Ventilation and Acceptable Indoor Air Quality*
Publication Draft

(This foreword is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)

FOREWORD

Research data was presented to the SSPC through the continuous maintenance process that showed that adjustments to Table 6-2 – Zone Air Distribution Effectiveness were warranted. This addendum specifies that an underfloor air distribution system that provides low velocity air at 4.5 ft above the floor (less than 50 fpm) provides improved ventilation effectiveness, allowing them to be assigned a value of 1.2 for E_z , rather than the previous value of 1.0. Related language in Table 6-2 was clarified.

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

Addendum a to 62.1-2010

**Revise Table 6-2 as follows:
(The rest of Table 6-2 remains unchanged.)**

TABLE 6-2 ZONE AIR DISTRIBUTION EFFECTIVENESS

Air Distribution Configuration	E_z
Floor supply of cool air and ceiling return provided that the 150 fpm (0.8 m/s) supply jet reaches <u>vertical throw is greater than 50 fpm (0.25 m/s) at a height of 4.5 ft (1.4 m) or more above the floor.</u> Note: Most underfloor air distribution systems comply with this proviso.	1.0
Floor supply of cool air and ceiling return, provided low- velocity displacement ventilation achieves unidirectional flow and thermal stratification <u>or underfloor air distribution systems where the vertical throw is less than or equal to 50 fpm (0.25 m/s) at a height of 4.5 ft (1.4 m) above the floor.</u>	1.2

1. "Cool air" is air cooler than space temperature.
2. "Warm air" is air warmer than space temperature.
3. "Ceiling supply" includes any point above the *breathing zone*.
4. "Floor supply" includes any point below the *breathing zone*.
5. As an alternative to using the above values, E_z may be regarded as equal to air change effectiveness determined in accordance with ANSI/ASHRAE Standard 129¹⁶ for all air distribution configurations except unidirectional flow.