



Vbz is not Voz. Divide by Ez. A mixed-air RTU is not a 100% outdoor-air system. A fixed outdoor-air damper is not VAV outdoor-air control.

Original Masterbuild PE packet from Daily Code Talk on 2024 IMC 403.3.1.1. Confirm the adopted edition. This is not a sealed outdoor-air design. Distinct from Table 403 lookup and from demand-controlled ventilation.

☐ **Vbz = $R_p \cdot P_z + R_a \cdot A_z$ (R_p/R_a from Table 403.3.1.1; P_z = people; A_z = net occupiable area).**

Ez by configuration (Daily Code Talk): ceiling cool 1.0; ceiling warm / ceiling return 0.8; floor warm / ceiling return 0.7; displacement (low-velocity cool, stratified) 1.2 when criteria are met. Voz = Vbz / Ez.

☐ **Single-zone or 100% OA: $V_{ot} = \sum V_{oz}$. Multi-zone recirc uses $Z_p / E_v / D$ — show that math on M-601.**

403.3.1.3 DCV may modulate by occupancy but not below R_a during occupancy. 403.3.1.4 VAV must maintain OA across turnaround — a fixed damper alone is not compliant.

☐ **Do not claim $E_z = 1.0$ for warm ceiling supply without the Daily Code Talk redline checks (ΔT and throw).**

Do not show Vbz without Ez. Do not call the system 100% OA in the calcs while scheduling a mixed-air AHU/RTU. VAV minimums in the math must match BAS setpoints.

The fail we see first

Vbz on the schedule, no Voz. Part-load OA on VAV is the common rejection: design peak looks fine; minimum primary airflow does not.

What to send: the zone schedule (R_p , R_a , P_z , A_z , E_z) and whether the AHU is mixed-air or 100% OA.

Send the comments. Not the County guideline.

Folio (does it start with 30?), process or UP number, and the comments PDF. Masterbuild will say which row is actually open.

masterbuildconsulting.com/send/

+1 (786) 398-6940 · Calendly: 30-minute scoping call

Masterbuild provides engineering services under a written scope. Not a sealed outdoor-air design. Confirm adopted 403. This is not legal advice.