

**INTERPRETATION IC 62.1-2004-2 OF
ANSI/ASHRAE STANDARD 62.1-2004
VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY**

Approved June 25, 2006

Request from: Harry Milliken (hmilliken@desert-aire.com), Desert Aire Corp., 6 Judith Street, Lewiston, Maine 04204.

Reference: This request for interpretation refers to the requirements presented in ANSI/ASHRAE Standard 62.1-2004, Table 6-1 Minimum Ventilation Rates in Breathing Zone, specifically for the Occupancy Category: Swimming (pool and deck).

Background: In Table 6-1 Sports and Entertainment section it is stated that the area to use is comprised of the pool area plus the deck area for the Occupancy Category "Swimming". There appears to be some confusion in the industry regarding the definition of the deck area. Some in the industry define the deck area as a "Wet Deck" area which is defined as a six (6) foot area around the perimeter of the pool surface area. Others in the industry define the deck area as the Room Area minus the Spectator Area minus the Pool Surface Area.

Interpretation: In Table 6-1 the deck area for the Occupancy Category "Swimming" is defined as a "Wet Deck" area six (6) foot around the perimeter of the pool surface area. A project has a pool that is 75 ft x 25 ft = 1,875 sq ft. The Pool Room Enclosure is 50 ft x 100 ft = 5,000 sq ft. Deck Area is $[(75\text{ft} + 12\text{ft}) \times 6\text{ft} \times 2] + (25\text{ft} \times 6\text{ft} \times 2) = 1,344\text{ sq ft}$. The required ventilation air for this project is: $(1,875\text{ sq ft pool surface} + 1,344\text{ sq ft wet deck surface}) \times 0.48\text{ cfm/sq ft} = 3,219\text{ cfm}$.

Question: Is this interpretation correct?

Answer: No.

Comments: The entire floor area must be included in the calculation of minimum ventilation rates. The remaining floor area from your example must be designated as Swimming (pool and deck), Spectator areas, or some other space type from Table 6-1. The Standard does not define the deck as a six-foot wide strip.