



Panther Valley Elementary

Improving IEQ in Schools

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After: Improved lighting, acoustics and ventilation

Improving IEQ in the Classroom

Panther Valley Elementary Classroom – 780 Sq Ft

"I know how important indoor air quality is for both myself and my students. I'm a severe asthmatic and I haven't had any episodes since the start of school and the room renovation."

Tori, Third Grade Teacher

Constructed in 1958 and renovated in the 80s, Panther Valley Elementary's aging infrastructure needed some TLC. Armstrong Ceiling Solutions installed AWAIR sensors to monitor seven key indoor environmental factors in the nursing suite and classroom. The data showed a need for improved indoor air quality, light levels and acoustics. Armstrong offers a wide array of products that improve IEQ and protect students and staff in school.



Light – Levels approximately doubled from 116 to 253 lux by upgrading to Ultima® high light-reflective ceiling tile & new LED light fixtures (ideal level 300-500 lux).



Air – Improved indoor air quality, increasing from .5 ACH to 1.5 ACH StrataClean IQ™ Air Filtration System filters the classroom air and helped decrease PM2.5 levels.



Acoustics – Noise level improved with added NRC, increasing from 0.55 to 0.75.



Before: Poor lighting, sagging and stained ceiling tiles, poor ventilation



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After: Air purification and increased light reflectance

Improving IEQ in the Nurse's Office



Panther Valley Elementary Nurse's Office – 450 Sq Ft

“Improved indoor air quality is especially important since we have no full-blown HVAC system in the building. The cleaner, brighter environment definitely has an effect on how kids learn.”

Scott Fisher, Director of Buildings and Grounds



Light – Levels approximately doubled from 200 to 400 lux by upgrading to Ultima® high light-reflective ceiling tile (ideal level 300-500 lux).



Air – Improved indoor air quality by disinfecting the air with VidaShield UV24™ Air Purification System which reduces occupant exposure to viruses and bacteria.



Acoustics – Noise level improved with added NRC, increasing from 0.55 to 0.75.



Before: Limited ventilation and low light levels



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