

University of California San Francisco (UCSF)

[654 Minnesota Street]



During the design phase of UCSF's 654 Minnesota Street Project, UCSF had concerns about the overall quality of Indoor Air, as the location of the project was adjacent to Interstate 280, an eight (8) lane freeway. The main concern was the possibility of vehicle exhaust fumes entering the outside air intake of the 42,500 CFM Roof Top mounted air handler. In addition, there were also concerns about emissions from the emergency diesel generator that was positioned adjacent to the building.

A decision was made by UCSF and the Design Engineering Firm, Taylor Engineering of Alameda, CA to employ the SecureAire Electronic Air Purification System, also known as Particle Accelerated Collision Technology or PACT. This Particle Control System is used to treat the outside air when on the economizer cycle and the return air from the building. This unique system utilizes semiconductor airborne contamination reduction technologies to increase the efficiency and effectiveness of all air filtration systems. "PACT" is the only system that makes airflow the dominant transport mechanism and controls the behavior of fine particulates by creating inelastic collisions between particles on a sub-micron level. These collisions cause smaller particles to combine and form larger particles. This collision process significantly improves the ability of a standard filtration system to remove and reduce suspect indoor and outdoor generated contaminate levels.

The direct result of utilizing the SecureAire PACT Technology is as follows: In December of 2010 a panel of Center for the Built Environment (CBE) Industry Partners selected UCSF's 654 Minnesota Street project as the WINNER of the Livable Building Award. The panel provided the following commentary on the quality of the Indoor Environment: "This project meets the highest standard for providing healthy and productive indoor environment..."



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This project was the top scorer in CBE's Occupant Indoor Environment Quality Survey. This Survey was used to study occupant satisfaction with the quality of the indoor environment and has been implemented in over 850 buildings in Northern America and Europe.

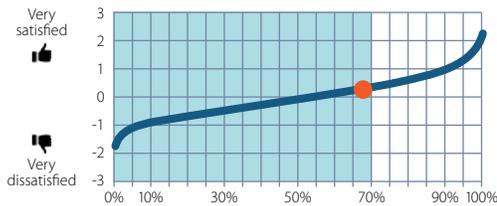
The actual building scorecard showing the multiple facets of Indoor Air Quality results is as follows:

Building ScoreCard

Performance of UCSF's 654 Minnesota Street Project in Core Survey categories

Acoustic Quality

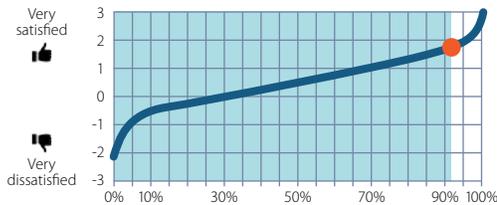
68% Percentile



0.31 Mean Response
47% Satisfied

Air Quality

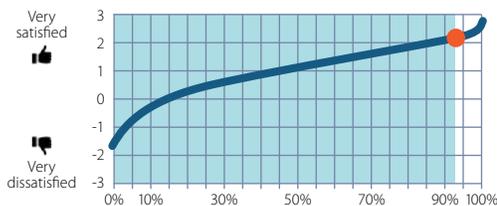
91% Percentile



1.69 Mean Response
80% Satisfied

Cleanliness & Maintenance

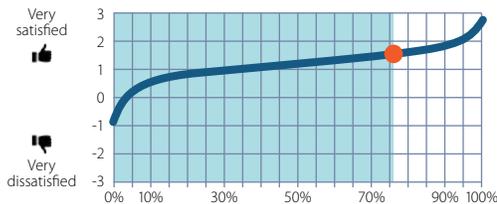
93% Percentile



2.17 Mean Response
92% Satisfied

Lighting

76% Percentile



1.56 Mean Response
75% Satisfied

The entire report on the Livable Building Award 2010 Winner can be reviewed at: www.cbe.berkeley.edu.



SecureAire's PACT System continues to provide the highest quality of indoor air without an increase in static pressure. This provides customers with the added potential of fan energy savings which directly translates to a reduction in operating costs.



SecureAire

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