IAQ Comfort

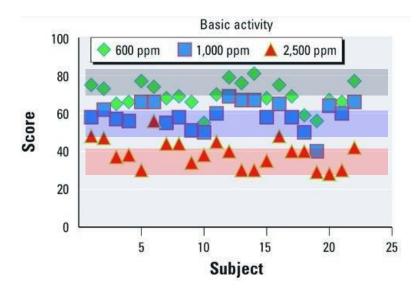
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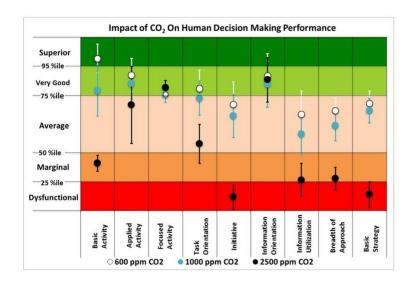


High level of indoor CO2 have negative effect

significantly impair people's decision-making performance



Source: Elevated Indoor Carbon Dioxide Impairs Decision-Making Performance, Berkeley Lab



Berkeley Lab researchers found that even moderately elevated levels of indoor carbon dioxide resulted in lower scores on six of nine scales of human decision-making performance.

Source: Elevated Indoor Carbon Dioxide Impairs Decision-Making Performance, Berkeley Lab



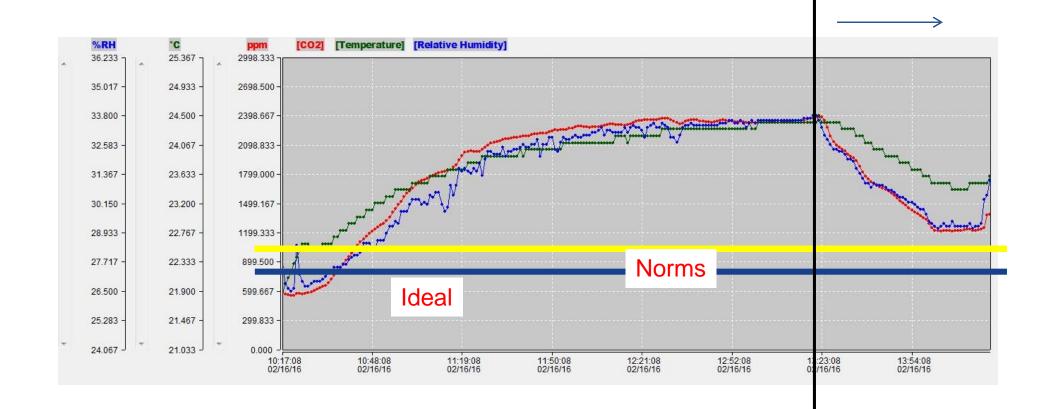




https://www.youtube.com/watch?v=yColtCgOk14





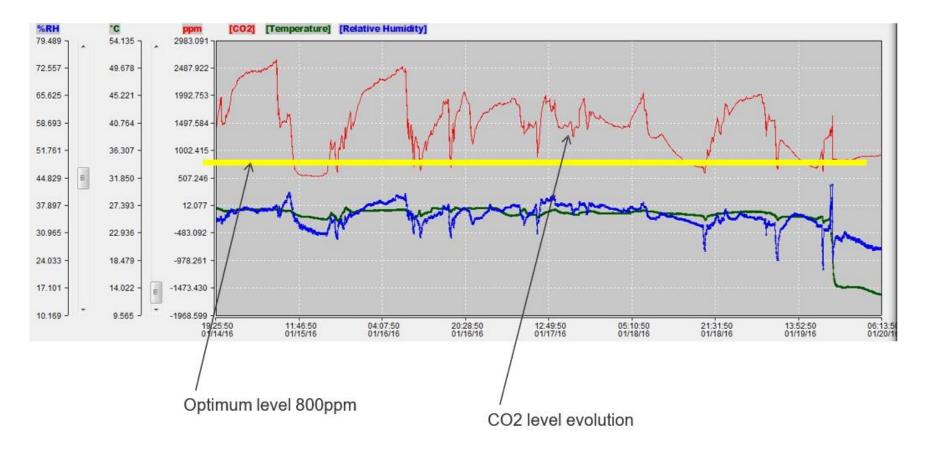






Apartment - Sleeping room

5 days measurements, room of the children + mom

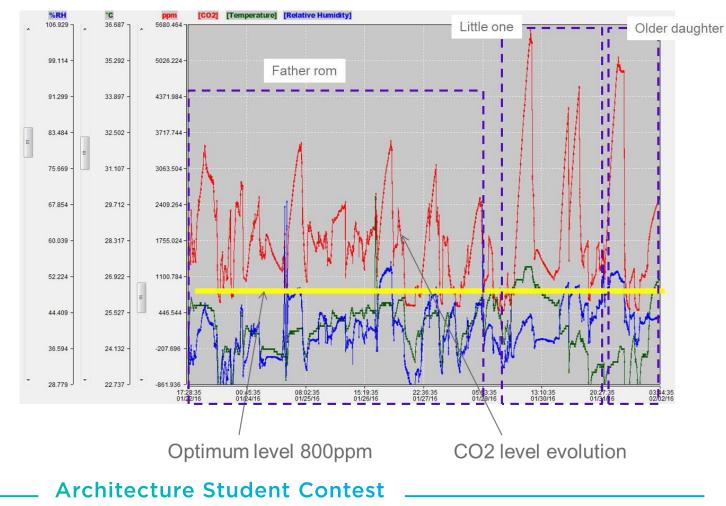






Apartment - Sleeping room

10 days- father, older daughter, little daughter + mother









Moisture Management Mold prevention Ventilation: Intake placement, filtration, humidity controls Materials selection: Low emitting, durable, easy to clean

Proper sequencing of finish installations Temporary ventilation during construction Clearance Testing: preoccupancy in Building Commissioning Effective Cleaning with low-emitting and non-toxic products Prevention of water intrusion Humidity & temperature control Regular HVAC maintenance Air quality testing



Determined by:

- Indoor air quality
- Fresh air supply
- Absence of internal pollutants
- Control of odors

Your Projects

- Keep outdoor pollution outside
- · Have a constant supply of clean, fresh air
- Never feel stuffy nor damp
- · Actively break-down impurities in indoor air

Saint-Gobain solutions:

- Insulation, drylining, membranes and high performance windows and doors providing superior airtightness
- · Low emission solutions to Improve Indoor air quality
- Products to purify indoor air by scavenging certain (VOCs) Volatile Organic Compounds such as formaldehyde
- Low-dust screeds and adhesives improving user-comfort during installation

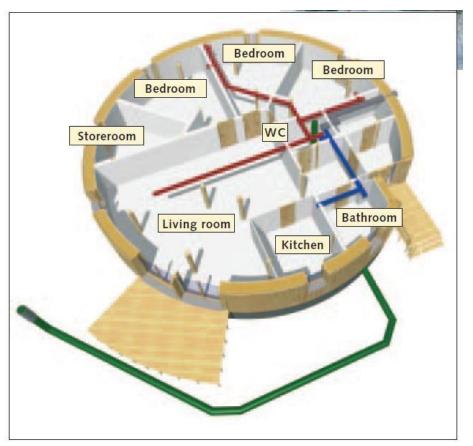








Human activity in buildings will lead to an increase of CO2 and humidity in the indoor air while reducing the O2 concentration Recommendation: Fresh air supply of 30 m3 per person per hour.



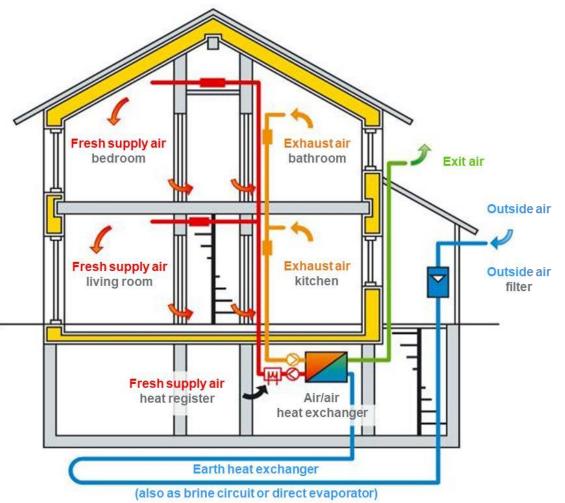
Lang Consulting





Controlled ventilation of a building provides an adequate supply of O2-rich fresh air – but the ventilation system can only work efficiently when ensuring a high level of building air tightness.

Filters of controlled ventilation system remove dust, pollen and other harmful substances, significantly improving the quality of life for inhabitants suffering from allergies







Compact ventilation systems with heat recuperation •As it requires only little space, the ventilation unit can be accommodated in any storeroom or even in a cabinet.

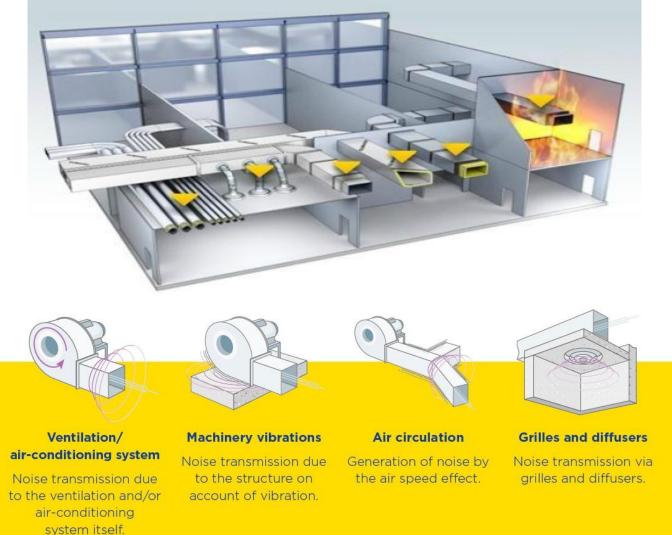
- Acoustic insulation of the central unit and supply ducts by installing sound absorbers. A noise level of 20-25 dB(A) should not be exceeded for living space.
- Easy maintenance, e.g. when changing filters and cleaning the unit
- The system can be easily adapted to varying needs, e.g. switch off the
- incoming air fan when opening the windows, bypass for summer use.



https://build.saint-gobain.co.uk/blog/2020/01/why-do-you-need-mechanical-ventilation-heat-recovery-system-mvhr



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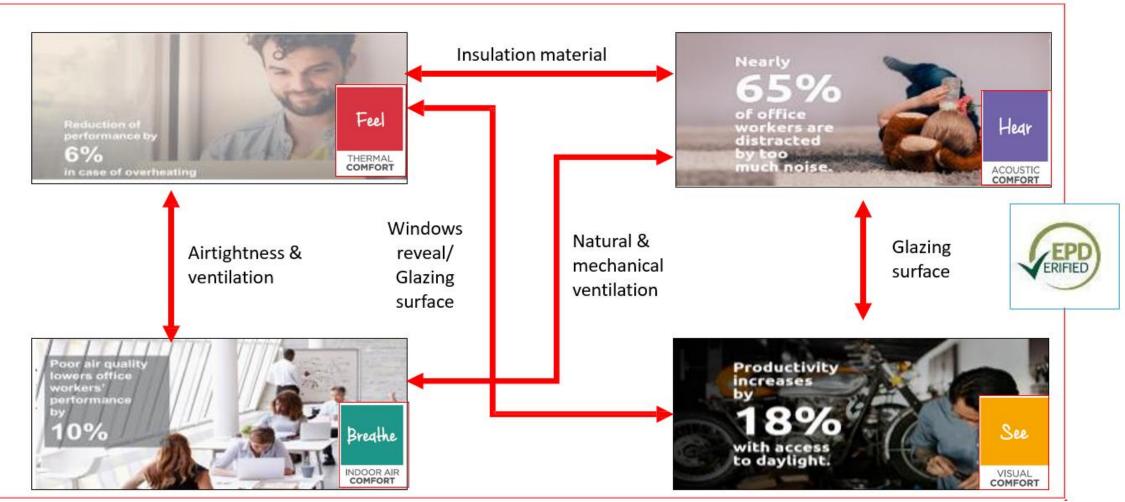




system itself.



COMFORT INTERACTIONS



Architecture Student Contest

SAINT-GOBAIN

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Thank you!

