

## Sick Building Syndrome - SBS

The reason for "Sick Building Syndrome" are airborne pollutants that are found in our homes and work places.

Toxic evaporations from furnitures, printers, copy machines, carpets, flooring- and insulation materials as well as not well maintained air conditioning systems can be the breeding ground for hazardous pollutants.

They carry pollen, mold spores, and volatile organic compounds (VOC's) in our living environment.

People affected by Sick Building Syndrome report headaches, dizziness, mucosal irritations, fatigue, allergic reactions, and acute breathing problems. These issues are intensified for those that already suffer from severe allergies.

In addition, symptoms highly interfere with our working capabilities that can lead to insomnia and depressions.

People who suffer from this condition are often labeled as "hysterical", "sensitive", or even "physically ill". The results include increased absence at work, numerous doctor visits and, at times, even complete inability to work.

Basic solutions for improvement starts with regularly cleaning of rooms, providing proper ventilation and monitoring air humidity.

Unfortunately this is not always possible due to tropical climates or other circumstances. Especially in large cities where pollutants from automobile exhausts and industrial fumes have easy access into buildings and therefore infiltrate the indoor air.

Certain plants are able to slightly filter some of these pollutants but leaves are only a very small portion of the air purification process. Scientists estimated the performance between 2% and 9%. In a well-insulated single family residence with approx. 1,800 sq ft of living space and a "normal stream" of formaldehyde contamination, 70 large pots of green lilies are needed in order to decontaminate the air.

During the research progress with our partners, we have found an optimal start for the development to improve indoor air with our redstone LUNO product line.