

STANDARD TESTING METHOD FOR BUILDING BIOLOGY

BUILDING IMPACT ON HEALTH

During our lifetime, the most influential years on our health are between ages 1-8.

Therefore, during this time we are more effected by the indoor environment, so the school and home indoor climate is very determinative. Also, our mental health and physiology is effected by various elements of indoor environment and can't be protected.



As the quality of built environment deteriorate which is common in Turkey, the impact of indoor environment on our health increases. This situation effects mainly our respiratory system, nervous system and immunity mechanism. As our body gets damaged and our metabolism gets weak, this leads to continuous and permanent health problems.

BUILDING IMPACT ON HEALTH



Symptoms of diseases mostly caused by the indoor climate conditions in homes, schools and offices:

sleep disorders / allergies / headache / migraine / hair loss / chronic fatigue / infection frequency / stress / physiological imbalance / depression / tinnitus / bronchitis / respiratory tract problems...

STANDARD TESTING METHOD FOR BUILDING BIOLOGY



Considering the effects of built environment on humans, we do **standard building biology testing** primarily for structures that might cause health problems for its occupants. We compare testing results with IBN standards and prepare a final report about health risks and remediation strategies. **Standard testing method for building biology** has been developed by German Building Biology and Sustainability in 35 years time.

The founder of Building Biology and Ecology Institute Turkey, And Akman is working over 25 years as a building biology specialist. He did over 700 standard testing for building biology in Europe and Turkey. YBE does standard testing for building biology, final reporting including guidelines for remediation. Moreover YBE consults for the rehabilitation work with its competent team and equipment resource.

STANDARD TESTING METHOD & REPORTING

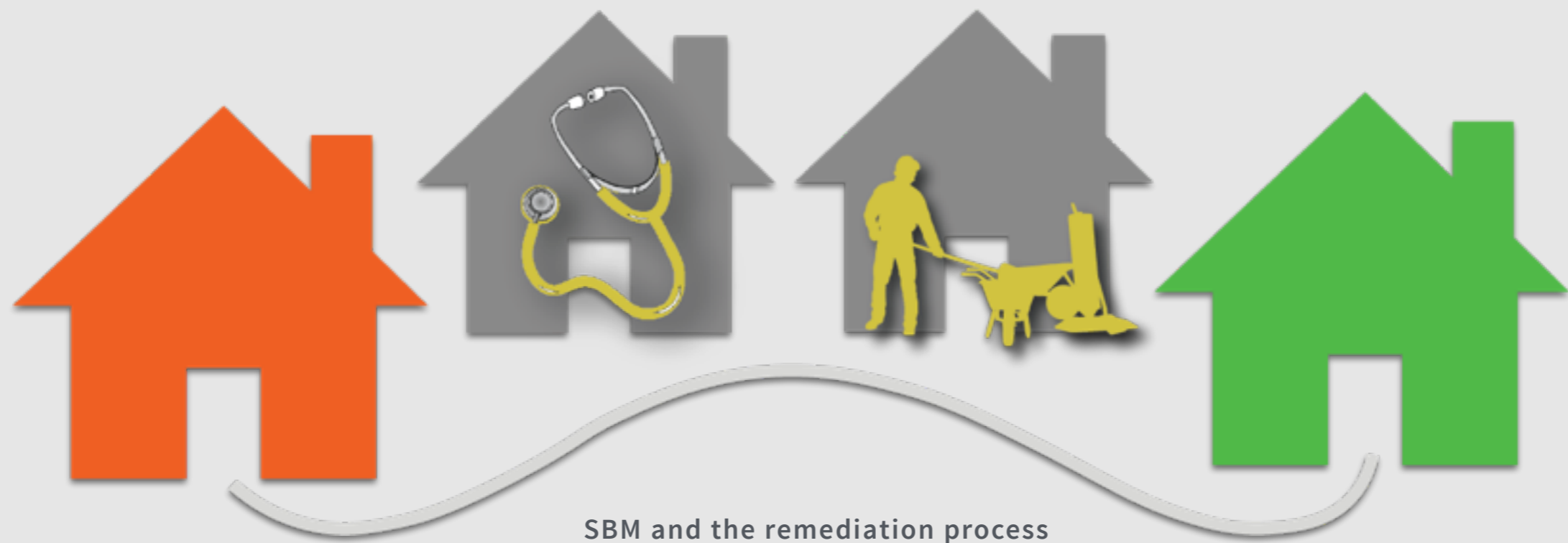
Standard Testing Method for Building Biology(SBM) and the final report includes identified possible harmful elements for health in indoor environment and suggestions about the remediation of the building. These elements can be measured in three categories with electronic devices and compared with International standard limitations. According to the results possible risk factors are identified and the consultation process begins. Consultation includes the improvements on the building such as basic alterations or even new architectural projects in some situations. Testing, reporting and rehabilitation aims at:

- promoting wellbeing of building occupants
- increasing the energy efficiency of buildings
- integrating non toxic materials to the building sector

electrosmog, radiation	toxic substances, indoor climate	mold, bacteria, allergen
electrical alternative fields	formaldehyd	molds
magnetic alternative fields	solvents	fungus
electromagnetic wavelength	pesticides	bacterias
electrical direct fields	heavy metals	moths
magnetic direct fields	particulate matter and fibers	
gama rays	indoor climate	
radon	indoor temperature	
radioactivity	surface temperature	
wavelengths	moisture	
	carbondioxyde	
	pressure	
	air flow	

SBM CONTRIBUTION TO BUILDING REHABILITATION

Buildings generally need retrofit in every three years, this period can be shorter for schools. Retrofit is mainly needed because of the material deterioration and bad quality of applications. When building elements and materials are applied without any concern on energy efficiency and health effect of built environment, the building conditions deteriorate in short time being and lack to meet actual needs. So, the ideal building conditions are the ones that support healthy indoor climate, that consume minimum energy and have a longer life. In this context, by means of the diagnosis it is possible to read not only the health effects of current indoor environment but also the damages happened in the building. Then solutions for appropriate retrofit can be identified and the optimum building rehabilitation is possible.



SBM & CONSULTANCY FEES



Consulting service (approximately 2 hours): 400,- TL. (+ %18 KDV)
- by the extent of the service special terms can be set.

Standard Building Biology Testing (SBM):

- by the room (home, school etc.): 500,- TL.
- area of the space (open office etc.): 17,-TL./m²
- Road rate: 1.20,- TL./km

NOTE: Please send us an e-mail about your demand of service first.