THE 25 GUIDING PRINCIPLES OF BUILDING BIOLOGY

Building biology is about creating healthy, beautiful, and sustainable buildings in ecologically sound and socially connected communities. In the selection of materials and the design of living environments, ecological, economic, and social aspects are considered.



Institute of Building Biology + Sustainability

HEALTHY INDOOR AIR Base interior and furniture design on physiological and ergonomic findings Supply sufficient fresh air and reduce air pollutants and irritants Promote regional building traditions and craftsmanship Avoid exposure to toxic molds, yeasts, and bacteria as well as dust and allergens SUSTAINABLE ENVIRONMENTAL PERFORMANCE Use materials with a pleasant or neutral smell <u>a</u> Minimize energy consumption and use renewable energy Minimize exposure to electromagnetic fields and wireless radiation Avoid causing environmental harm when building new or renovating P. Use natural, nontoxic materials with the least amount of radioactivity JUNE OF STATE Conserve natural resources and protect plants and animals THERMAL AND ACOUSTIC COMFORT Choose materials and life cycles with the best environmental performance, °,O favoring regional building materials Strive for a well-balanced ratio between thermal insulation and heat retention 60 H as well as indoor surface and air temperatures Provide the best possible quality of drinking water Use humidity-buffering materials SOCIALLY CONNECTED AND ECOLOGICALLY SOUND COMMUNITIES Keep the moisture content of new construction as low as possible ÷ Design the infrastructure for well-balanced mixed use: short distances to work, shopping, schools, public transit, essential services, and recreation Prefer radiant heat for heating Create a living environment that meets human needs and protects the environment 53 Optimize room acoustics and control noise, including infrasound Provide sufficient green space in rural and urban residential areas **HUMAN-BASED DESIGN** ()Strengthen regional and local supply networks as well as self-sufficiency P Take harmonic proportion and form into consideration Select building sites that are located away from sources of contamination, Nurture the sensory perceptions of sight, hearing, smell, and touch radiation, pollutants, and noise Maximize daylighting and choose flicker-free lighting sources and Ô In real life, all criteria cannot always be met. The goal is therefore to optimize each criterion color schemes that closely match natural light within an individual's framework of feasibility.

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