

The availability of around 20,000 different materials and products means that choosing amongst them is very difficult. The decision to use a specific material or product in a concrete object requires thorough research into their areas of use and their individual advantages. In addition to such well-known characteristics as function, aesthetics and building physics, etc., further aspects such as **lifecycle costs (LCC)**, **lifecycle assessment (LCA)** and the presence of **hazardous materials** must also be addressed in order to meet the requirements of a good, modern building

Lifecycle costs (LCC)

When addressing the cost of a building one is no longer merely interested in the investment costs but in all those costs which accrue during its lifetime. These include, for example, all maintenance and repair costs, operating costs and the costs of demolition and disposal.

Lifecycle assessment (LCA)

In order to limit not only the ecological footprint of the materials and building products used in a building but also the global impact on the climate and the environment alternative solutions for individual building elements should be compared in terms of design and lifecycle assessment. The consultancy services which we offer in this area are partly based on material screening which ATP sustain has developed in the context of a research project.

Hazardous materials

The impact of hazardous materials inside buildings should be limited as a means of minimizing the negative health effects on users. We base our work on design guidelines regarding hazardous materials in buildings which we have developed ourselves. We use this knowledge to support your project team with information about the type and location of hazardous materials which could arise and help them to promote the use of materials with reduced levels of hazardous content in the design and tender process.

Our services

- Analysis of the client's needs regarding requirements for operating life, materials, building products and, where applicable, the drawing up of specifications
- Advising the design team during the project regarding the choice of materials (LCC, LCA, hazardous materials) in service phases 2-5
- Advice during the tender process regarding material criteria (LCC, LCA, hazardous materials)
- Advice during the execution process regarding the choice of products (LCC, LCA, hazardous materials)



An overview of the advantages for you

- Speedy information about materials during the design process with regard to LCC, LCA, hazardous materials
- Recommendation regarding the concrete selection of products and indication of possible alternatives
- Overview of the impact, occurrence and permitted values of the most significant hazardous materials in buildings and corresponding environmental labels
- Guidelines, permitted values, environmental labels and certification requirements

