

CONSTRUCTION GUILD Burgenland

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Keywords:

- ☒ Building culture ☒ Construction
- ☐ Closed loops ☐ Governance ☒ Planning Tools
- ☒ Ecology ☒ Energy efficiency ☐ Indicators
- ☐ Mobility ☒ Technology transfer

Member group:

- ☒ Architects ☒ Builders ☐ Citizens ☒ Craftsmen
- ☒ Home Owners ☒ Planners ☐ Politicians
- ☒ Policy Makers



Description of Expertise:

Our Mission:

The construction industry with approximately 250,000 employees is the largest private employer in Austria. Therefore we are committed to the interests of the construction industries and use our influence.

The Federal Construction Guild represents together with the nine provincial guilds the interplant interests of approximately 12,000 Austrian companies in the building industries at national and international levels.

As a public body we are an independent professional organization with its own sphere of action within the framework of the Austria Federal Economic Chamber (WKO).

For the entrepreneurs in the construction industry, we are partners in all aspects of the building sector. We are the centre and focus of all industry developments and political decisions. We offer our services to building companies and all partners related to construction and their stakeholders.

CONSTRUCTION GUILDS in Austria and the Alpine Space:

The consideration of life cycle costs is becoming increasingly important for building in the Alps.

To involve regional economic cycles and materials in planning strategies ensures sustainable development in the Alpine region. Thereby the Austrian construction industry focuses on sustainability and innovation.

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CONSTRUCTION GUILD Burgenland – main focus:

Solid House / House Comparison

Solid building

Building materials from the region - long life – how to avoid summer overheating

Massive construction materials are by the sum of its technical and ecological properties ideal for implementation of innovative building concepts (such as component activation, zero-energy houses, plus energy houses, etc.), which focus on the optimization of energy efficiency and the use of renewable energy sources in the foreground. Innovative building concepts with solid building materials are able to combine optimally structural engineering with building services under one roof.

The number of summer heat days above 30 ° C will increase blatantly in the coming years. Forecasts speak of a fourfold by 2050. This climate change causes now an increasing shift in energy consumption from heating to cooling of buildings. Avoiding overheating in summer is becoming increasingly important in the planning of buildings.

Massive construction materials heat up slowly during the day by its thermal mass and give excess heat during the cooler night again.

Therefore, their use is an effective measure to avoid summer overheating, because so massive components provide pleasant climatic conditions during high summer heat waves with no additional cooling requirements.

Another important aspect of the ecological/economic analysis of massive construction products are the regional value through local products, short transport routes and job creation in the region.

Therefore, this issue is of central importance for the market opportunities of concrete structures of the construction industry.

CONSTRUCTION GUILD Carinthia

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CONSTRUCTION GUILD Carinthia – main focus:

Construction Cybernetics

Cybernetics = theory of self-organization; accesses findings and principles from nature to manage growing complexity.

Construction Cybernetics does not see the fault as the exception but the rule to, with the need - by controlling and cooperation of everyone involved – of handling building processes smoothly.

By improving the culture of working together a new "Cooperation in the Construction" is to be achieved. The focus is to ensure the productivity of the performers and the flexibility of initial and interim appointments at the center.

The aim is to implement projects within the stipulated time, to the agreed costs, the agreed quality and in a human context.

CONSTRUCTION GUILD Lower Austria

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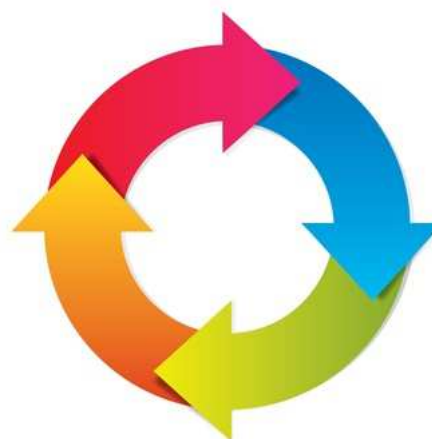
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CONSTRUCTION GUILD Lower Austria – main focus:

Life Cycle Costs

The life cycle costs represent the costs of a building over its entire lifetime.

There is a recording of all costs in all life stages, including planning, development, procurement, manufacturing, sales, maintenance and operating costs as well as elimination /recycling.

Many building decisions, however, have their focus still on the pure construction costs, but the operating and maintenance costs, when viewed over the life cycle, are much higher in practice. Subsequent changes or adaptations are often much more expensive than if you would have this thought along and executed in advance.

The life -cycle costing is a sustainable, cost- and resource-saving way to look at the development of a building from idea to demolition.

CONSTRUCTION GUILD Upper Austria

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CONSTRUCTION GUILD Upper Austria – main focus:

Building guidelines - economic impact

Objective of EU policy is to support the improvement of the energy performance of buildings within the European Community, taking into account outdoor climatic and local conditions, as well as the requirements for indoor climate and cost-effectiveness.

In recent years it has come through the increasingly stringent building codes on the one hand to the desired improvement of the energy efficiency of buildings and a consequent reduction in CO₂ emissions, on the other hand, however, the construction and renovation costs have thus increased. This tension field between the politically required affordable housing and increasingly stringent regulations and laws is to investigate, and to find solutions that satisfy both requirements innovatively.

CONSTRUCTION GUILD Styria

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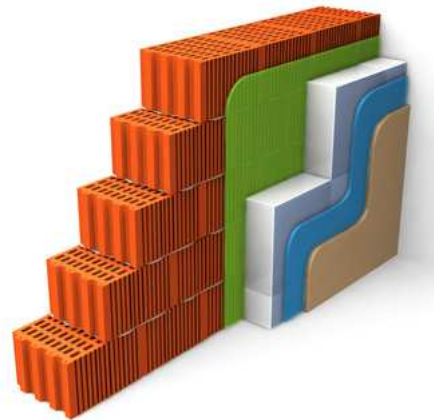
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CONSTRUCTION GUILD Styria – main focus:

Thermal insulation composite systems – Lifecycle

Thermal insulation composite systems analysis

Cheap! - Energy saving! - Disposal? - Life-cycle costs? - Claims!

Due to the low cost external wall insulation systems are currently the most widely used ones in new buildings as in renovation and improve the energy balance sustainably.

But only proper detailed planning and execution guarantee optimum results.

EIFS are by the technical and physical requirements complex systems that must be planned in detail and executed professionally, otherwise claims are preprogrammed.

Advantage: EIFS is inexpensive/improves energy balance/= proven technology

Disadvantage: poor ecological balance seen over lifecycle/unfavorable reaction to fire, the algae problem at North-facades.

Structural damage caused by a lack of detailed planning or faulty execution. Disposal/Recycling of the material raises serious problems for the future; at the end of its useful life, the systems must currently be disposed of as hazardous waste.

This complex issue should be considered under this analysis from all sides; in order to avoid claims in advance and regarding to the environmental issues, that will be of great importance (demolition/renovation of buildings with EIFS) in future.

CONSTRUCTION GUILD Tirol

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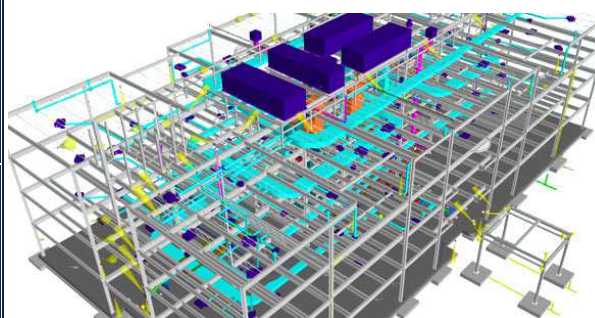
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CONSTRUCTION GUILD Tirol – main focus:

BIM - Building Information Modelling

Building Information Modelling (BIM) is based on the active networking of all those involved in construction.

A method for optimizing the planning, execution and management in the construction industry with the help of software. All relevant building data are digitally recorded, combined and networked. Thus, changes to the project for all those involved, both as a drawing or as a data packet are directly available and automatically synchronized.

A new approach for innovative, sustainable and cost- efficient construction, by modern IT solutions with continuous data usage which are used for integrated processes.

CONSTRUCTION GUILD Vorarlberg

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Innovative Example of „Small Tech Building“
 Haus „2226“ in Lustenau von Baumschlager-Eberle

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CONSTRUCTION GUILD Vorarlberg – main focus:

Small Tech "Building with common sense"

Small Tech means "as much technology as necessary, as little as possible"

“Small tech means buildings which achieve high user comfort and excellent energy performance with a minimum of technical installations. Natural physical effects, traditional knowledge, historical building technologies and materials, as well as locally available resources and raw materials form the basis for further development and adaptation to modern requirements.”

(from " low-tech building " antithesis of the over-technological building , Wolfgang Streicher, University of Innsbruck , 16.09.2010 Low Tech Building , Future Buildings Tirol 2010)

CONSTRUCTION GUILD Vienna

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CONSTRUCTION GUILD Vienna – main focus:

Quality in Building

With quality in building, a holistic view of a building is meant - with all the upstream processes, the processes during execution, but also after commissioning till demolition of the building. Important in this issue are also interplant and cross-sectoral planning approaches, as well as the complexity and momentum of a building, which significantly contribute to the success of a quality building. This area includes both Integral planning, facility management, cybernetics in building but also the traditional construction process.

For the construction industry, this is in many respects of importance, on one hand the increasing challenges on the part of customers to meet, on the other hand to prevent and to reduce damage and claim management, as these areas contribute significantly to economic management of building contracts and, due to the ever-increasing trend to "everything from one source" solutions, the construction companies must jointly liable for other companies more and more.