Timber-frame facade elements for hybrid construction

Abstract:
In the interdisciplinary research project three chairs of TUM (Chair of Timber Structures and Building Construction, of Energy Efficient and Sustainable Design and Building and of Concrete and Masonry Structures) as well as Ift Rosenheim (Department of Building Acoustics) are working together. The symbiosis between timber-frame elements and solid structure is being developed considering the state-of-the-art with regard to all relevant aspects of structural design and building physics including heat, moisture, sound and fire protection. Additionally, the field of increasing emphasis, life cycle analysis and recyclability of materials used in construction is included by considering certain carbon footprint values etc. The outcome is a construction catalogue for hybrid construction including standardized elements and details with technical and legal feasibility.

Stichworte:
Carbon Footprint, Construction catalogue, Recyclability, Reinforced concrete structures, Timber-frame façade elements

Kongress- / Buchtitel:
Proceedings of the International Conference on Building Envelope Design and Technology