

CONTEMPORARY BUILDINGS WITH TIMBER



Enthusiasm for architecture and engineering in timber is growing rapidly among a new generation of architects and designers. The reasons for the success of timber in construction today lie with the technological advances of timber and construction research:

- Timber is a sustainable renewable material with a very positive CO2 balance.
- Timber has excellent thermal and antibacterial properties
- Timber is diffusion open and provides the means to build homes with excellent interior climate without the need for mechanical ventilation. At the same time, well-constructed timber buildings achieve very high air-tightness values – a Stommel house for instance typically reaches $\leq 1 \text{ m}^3 / (\text{h} \cdot \text{m}^2)$ at 50 Pa.
- Major progress in timber research and the application of the results in industry standards (such as DIN 68800) enable durable construction without the need for the chemical treatment of the timber.

Contemporary timber construction competes with other materials in terms of cost and has additional significant benefits such as the beauty and health aspects of the material, the fact that timber buildings can be manufactured off-site and the connection with the craftsmanship that is applied to design and build timber houses.

Some architects, builders, administrative bodies, financial institutions and insurers still have persistent reservations about building in timber mainly caused by the perceived greater risk of fire, sound insulation and limitations of

design; all of which have been proven to be unfounded. Today we are able to build virtually any kind of timber building (a 24 story timber building is going up in Vienna in autumn 2015) with the same fire resistance as traditional builds and with good sound insulation.

Stommel Haus has pioneered healthy and contemporary timber construction in Germany. Franz Stommel, founder of the company over 50 years ago, was already building houses with untreated timber in the late 60's when chemical wood protection was still mandatory in Germany. The development of a sandwich wall with a solid timber frame at its center enables Stommel Haus to build contemporary architecture; the advance in production techniques and logistics allows Stommel Haus to pre-fabricate bespoke homes and to assemble them on site, to be wind- and water-tight typically within one week.

There are virtually no limits in design, from traditional to modern, Arts-and-Crafts Style to Bauhaus architecture – all of the homes have excellent energy efficiency, air-tightness, compliance with industry standards and Building Regulations and there are no problems obtaining mortgages or insurance. No matter what the design of the house, the Stommel Haus principles in construction, production and assembly are always the same which enables the company to provide high quality homes over and over again.

If you are interested in using high tech timber construction for your project, visit us at www.stommel-haus.co.uk or write to info@stommel-haus.co.uk



Contemporary Bespoke Timber Houses
High Energy Efficiency - Very High Quality - Built On-Time and In-Budget

To find out more about Stommel Haus contemporary timber houses call 0800 068 16 11 or visit www.stommel-haus.co.uk info@stommel-haus.co.uk

Stommel Haus 
Ein Haus wie ein Baum.