

Rigidur® for timber construction

The ideal combination of natural
building materials



Think positive - build healthily with Rigidur® gypsum fibreboards

You consider healthy living conditions and sustainability to be key priorities while building? If so, using a combination of wood and gypsum building materials renders all possible benefits. The interactional advantages of these two natural materials for human well-being and the environment are striking.

The combined positive qualities of wood used for construction together with gypsum fibreboards for surfaces ideally complement each other when building. And if you are searching for individuality, flexibility, a healthy home and sustainability from the basement upwards, you are bound to be successful with Rigidur gypsum fibreboard!





Timber construction is booming – it's ecologically exemplary and cost effective

Humankind's oldest building material is currently enjoying a veritable renaissance. During the course of our society's urbanization, the diverse strengths of wood construction have proven particularly suitable in ensuring the creation of sustainable, healthy and inhabitable spaces.

Anyone wanting to erect high-quality, future-oriented buildings has all the arguments in their favour when using Rigidur gypsum fibreboards for timber construction:

- Sustainable, ecological wood construction using natural materials
- High level of individuality and flexibility
- Longevity and high energy efficiency
- Optimal use of floor space thanks to lean design
- Cost and deadline reliability during planning
- Exceptionally short construction cycles due to prefabricated components needing no drying times
- Standardized, in part weather-independent construction processes
- Problem-free closures of building gaps within urban environments
- Extensions, additions of storeys and building conversions can be realized in shortest possible construction timeframes
- Temporary utilization concepts are also feasible



Rigidur® gypsum fibreboard – ready for every challenge

Regardless whether detached or semi-detached houses, large multi-storey buildings, additions of storeys or urban consolidation in conurbations, Rigidur gypsum fibreboards used for timber construction meet all structural standards and individual requirements:

- Robust, modern drywall solution
- Space utilization and flexibility
- Universally usable with fire prevention structures or wet room solutions, such as domestic bathrooms
- Maximum possible healthy living conditions
- Excellent static properties – certified as effective reinforcing panelling



Smooth walls

Robust solutions that exhibit their strengths with timber construction

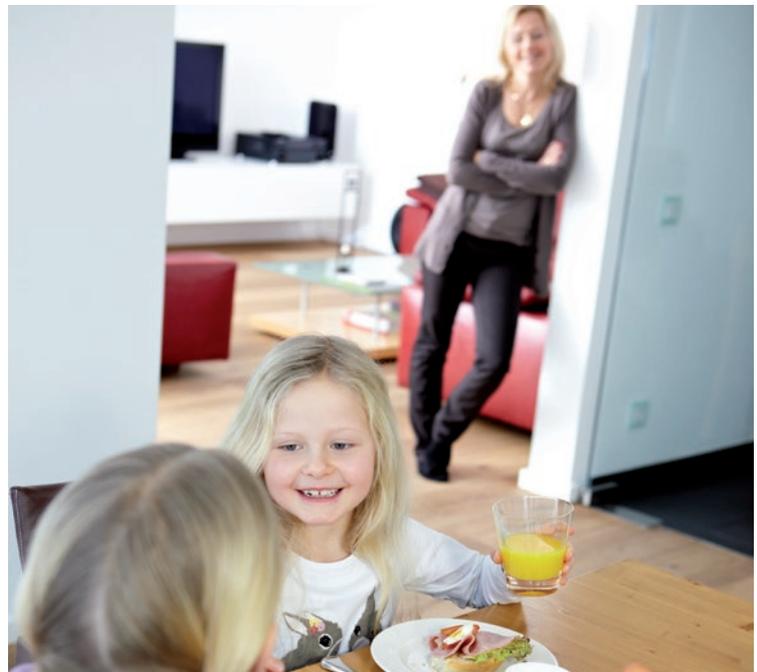
Rigidur gypsum fibreboards and screed elements comprise highly compressed natural gypsum reinforced with special recycled paper fibres. Due to their distinctive structure, all Rigidur timber construction solutions are characterized by extremely hard, robust and very smooth surfaces.

Furthermore Rigidur products are tested and certified for pollutants and environmental compatibility by the independent Institute for Building Biology (IBR) in Rosenheim, Germany. Together with matching Rigidur components, such as non-hazardous adhesives and fillers, this product has been awarded the seal of approval as a very safe building material. Consequently, you have the best reasons to use Rigidur gypsum fibreboards as a reliable and safe drywall timber construction solution.

Supreme for walls, ceilings and sloping roofs

Rigidur is ideal for:

- Interior and exterior walls
- Load-bearing and non-load-bearing partition walls
- Partitioning between flats and wall cladding
- Single and double stud walls, strut and girder cladding
- Sloping roofs and ceiling lining
- Fire prevention structures ranging between 30 and 90 minutes



Resilient floors

Ideal for stable yet light floors

- For resilient, coherent dry screed surfaces using overlapping, frictional installation
- Low construction heights and low dead load result in no need for high requirements on static loads
- Optional thermal protection and noise and footfall insulation thanks to prefabricated elements with laminated insulating materials
- Rigidur screed elements for fast and easy attic conversion
- For high-efficiency sound insulating superstructures in combination with Rigidur levelling compound – also on wooden beam ceilings
- Suitable for a broad range of surface coverings, regardless whether tiles, parquet flooring, vinyl design floor or carpet. Also very suitable for floor heating.



Timber construction with Rigidur® gypsum fibreboards – strong panels with impressive features



Building biologically tested components using natural raw materials

Rigidur gypsum fibreboards comprise natural gypsum and paper fibres for reinforcement made from recycled material and are free from adhesives and binders. They have been tested by the independent Institute for Building Biology (IBR) in Rosenheim, Germany for pollutants as well as environmental compatibility and awarded a seal of approval as a very safe building material.



For a cosy indoor climate

Rigidur gypsum fibreboards absorb excessive moisture from spaces such as bathrooms and kitchens and release it later when the ambient air is dry. This proven water vapour adsorption capacity is just as distinctive as that found in clay plasters which are well-known for their moisture balancing properties.



Thermal protection for well-being and energy saving

Contemporary thermal insulation is a combination of thermal protection and heat storage capacities. While respective modern materials contribute to thermal insulation, Rigidur gypsum fibreboards provide temperature-compensation heat storing capacities thanks to their dense mass.



Interior and exterior sound insulation

The comparatively heavy weight of stable Rigidur gypsum fibreboards combined with modern insulation materials assures high-degree sound insulation for partitioning walls as well as for exterior walls of a building. The choice of an optional lamination used with Rigidur screed elements increases high-impact sound insulation.



Built-in fire safety for wooden buildings

In accordance with EN 13501-1, Rigidur gypsum fibreboards are classified as 'non-combustible'. As a consequence they effectively protect a home's construction from fire which may occur inside, resulting for example from neglect or technical defects. The water chemically bonded in gypsum crystal is released under intense heat, cooling the entire structure and hence ensuring protection against the spread of fire.



Very smooth surfaces for optimal design options

The extremely smooth, sealed surface of Rigidur gypsum fibreboards – with no protruding fibres nor signs of machining – is ideally suited to subsequent layers of paint for example, as no additional surface treatment is needed. In a similar way old wallpaper can be easily removed.



Robust very wear-resistant walls

Rigidur gypsum fibreboards feature high-degree surface hardness and as a consequence are not susceptible to everyday mechanical stress such as knocks and scratches.

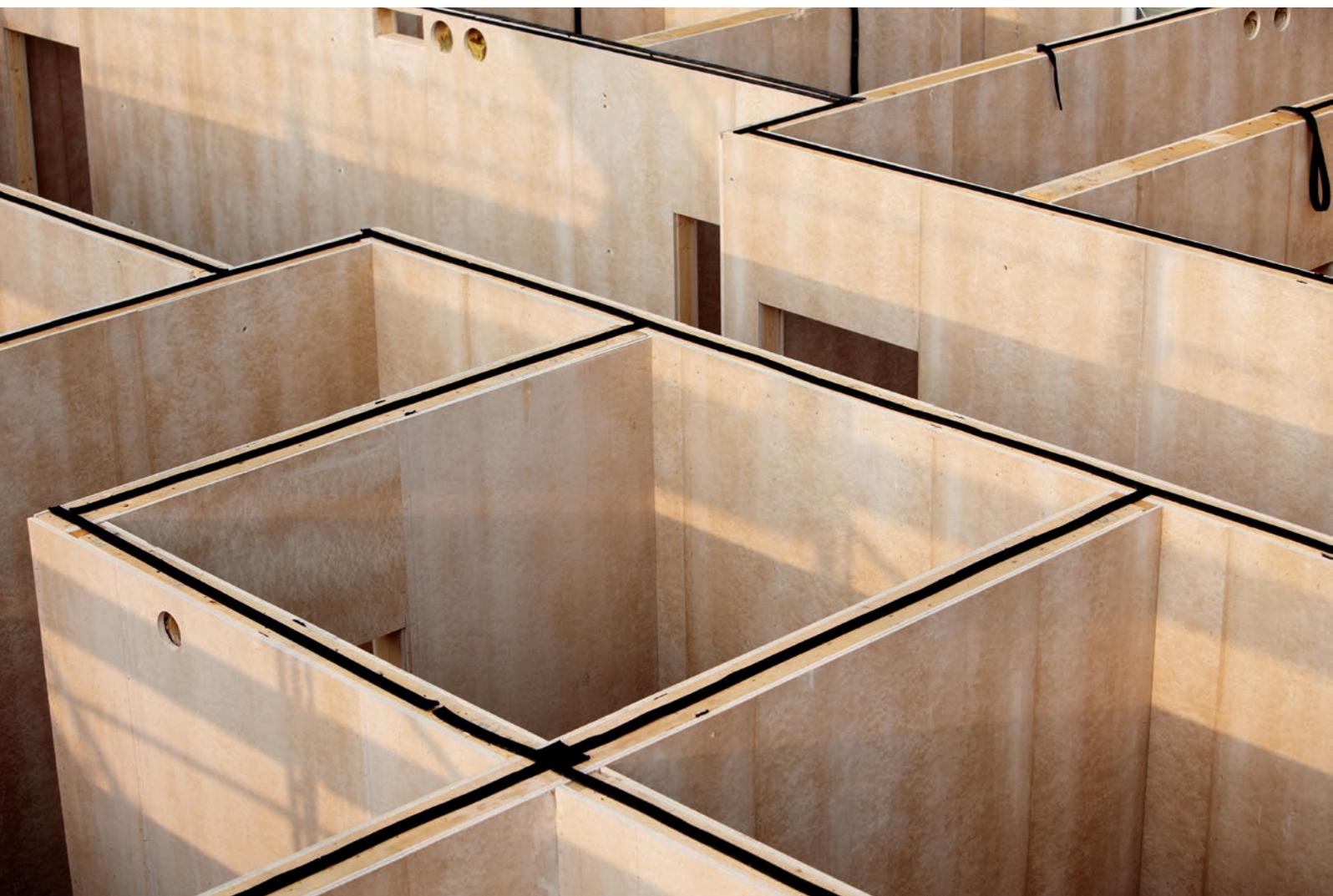


Fastening heavy loads made easy

Walls built from Rigidur gypsum fibreboards are extremely stable, enabling items to be safely and simply fastened. Cabinets, shelves or flat screens can easily be screwed onto walls with coarse thread screws without the need for laborious drilling.



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Rigidur® gypsum fibreboards – advantages not just limited to timber construction



Securely fastened in no time at all

Rigidur gypsum fibreboards can be mounted onto wooden substructures simply and quickly with staples, making installation cost-effective. The staples can be used up to 1 cm from the board's edge without any problems. And the fibreboard is so stable that neither edges and corners chip nor do the staple crowns go through.

Customized formats for individual home solutions

After a room's height has been defined, it is often the case that the required board lengths are rarely available as standard sizes. As part of our service, we custom-cut Rigidur fibreboards to the required lengths – to match room height – at no extra cost as long as four pallets are ordered. Simply contact us!

XXL formats: more surface with less seams

More and more customers are taking advantage of the option to minimize seam processing thanks to large format boards. Rigidur gypsum fibreboards are manufactured up to 2.5 m x 6.0 m in size and finished precisely to customers dimensional requirements.

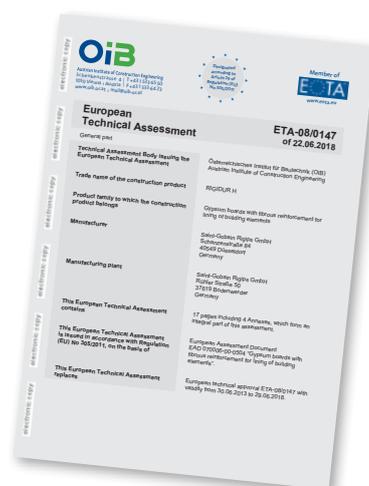


Rigidur gypsum tapered edge for perfect board junctions

Our 'AK' tapered edge version facilitates the creation of flush board seams. Thanks to the tapered edges, small surface irregularities caused by offset edges are compensated for with subsequent grouting. The figures used in calculations do not need to be reduced for static applications when using Rigidur gypsum fibreboards with tapered edges.

Certified, statically effective panelling

Rigidur gypsum fibreboards are certified at European level for use as both reinforcing and load-bearing panelling for wooden components.



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