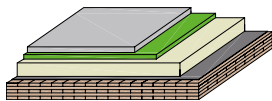








# binderholz CLT BBS 125 SYSTEM CEILING



## IMPACT SOUND

In view of its higher mass, the BBS 125 system ceiling has significant advantages over more lightweight ceiling systems in terms of sound insulation.

PHYSICAL AND ECOLOGICAL RATING		
 <b>Fire protection</b>	REI	60 <small>max. buckling length <math>l = 3</math> m; max. load (<math>q_k</math>) = 14,95 [kN/m]</small>
 <b>Thermal</b>	U [W/m²K] $m_{tot}$ [kg/m²]	0,16 19,2
 <b>Noise insulation</b>	$R_w$ [dB] $L_{w,eq}$ [dB]	50 -
 <b>Ecology</b>	OC <sub>3,iso</sub>	1,9

Refer to our online database at [www.massivholzhandbuch.com/en](http://www.massivholzhandbuch.com/en) for information on 30 tested ceiling constructions with information on air-borne and impact sound insulation:

- Tested designs for floors (ceilings) and partition ceilings
- Ceilings with and without suspended substructure (tested)
- Ceiling constructions with dry and wet screed flooring solutions (tested)

All structural physical values are supported by test certificates.

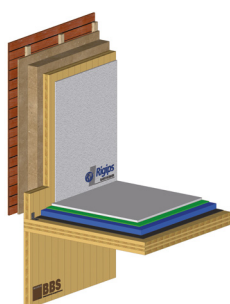
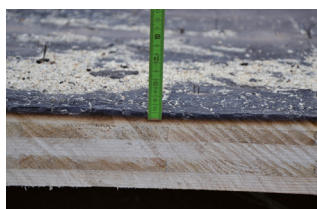


## FIRE RESISTANCE

Constructions using BBS 125 system ceilings have been tested in extensive fire tests. The “hot rating”, as it is known, for fire resistance can easily be obtained using our design software. The burning rates determined by independent fire testing institutes are stored in our design software.

Our online database also provides fire test data on the fire resistance of covered and uncovered constructions:

- Fire protection-compliant BBS ceiling constructions
- BBS ceilings including element joints and installations
- REI 30 to REI 90 constructions under load



## TESTED AND CERTIFIED SYSTEM CONSTRUCTIONS

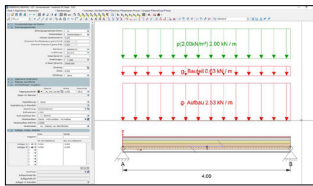
The Solid Timber Manual 2.0 produced by binderholz and Saint Gobain Rigips Austria provides 130 tested constructions for walls, ceilings and roofs and all the key information on fire protection, sound insulation, thermal insulation and ecological ratings.

The constructions listed in the Solid Timber Manual 2.0 are available with 1,200 detailed drawn solutions in an online database at [www.massivholzhandbuch.com/en](http://www.massivholzhandbuch.com/en).

## APPEARANCE | VISIBLE QUALITY

Visible quality designs are available with BBS 125 system ceilings. The visible side of the BBS 125 element can either be produced in spruce, larch, stone pine or antique pine. The BBS 125 system ceiling always has a high-quality sanded or optionally brushed appearance, which incidentally also permits the simple ad hoc reworking of the laid surface and, unlike planed finishes, the even absorption of paint. Industrial quality and non-visible quality BBS 125 system ceilings are also possible.



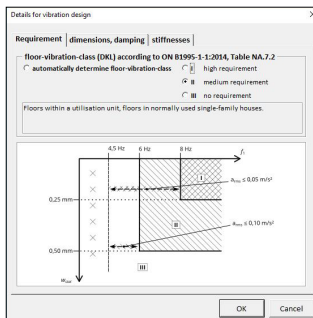


## STATICS

We provide pre-measurement tables, which you can find in the BBS product literature, for simple and fast pre-measurement of BBS 125. We also provide a free measuring program, which can be requested at [bbs@binderholz.com](mailto:bbs@binderholz.com), for verifiable statics evidence, based on Eurocode 5. All the relevant product values are saved in this program.

The registered version of the statics program lets you calculate the strength of the component, obtain fire resistance and precise vibration documentation:

- Integrated „hot rating“ of timber components in compliance with DIN 4102
- BBS 125 system ceilings can be installed to be statically load-bearing on 2 axes if required

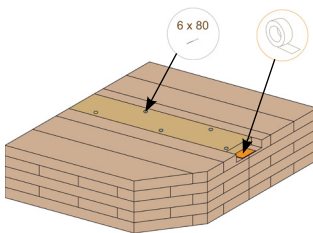
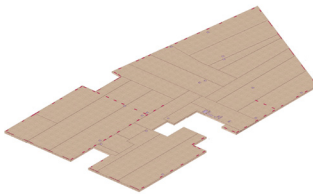


## VIBRATION DOCUMENTATION

The calculation program for BBS 125 system ceilings lets you generate documentation for precise vibration data in compliance with Eurocode 5. The general recommendation as per DIN 1052 for reduced deflection (reduced vibration behaviour), which generally leads to significantly thicker ceiling depths, can be replaced by a precise vibration calculation. In turn, this enables more cost-effective BBS 125 ceiling thicknesses to be produced. The lateral distribution of the loads, due to the crosswise structure, has a positive impact on vibration behaviour and is automatically taken into consideration by the measuring program.

## PROCESSING BASICS

The quality and level of detail of our quotation and order processing seriously depends on the documentation provided. 3D or 2D CAD plans provide an optimum basis for this. Provision of working drawings, in the form of single-component drawings, is needed for the smooth running of a project. After placement of the order by the customer, the order confirmation is produced with production approval.



### BBS 125 system ceiling

Installation of ceilings using BBS 125 provides structural benefits: self-supporting and dry construction methods, horizontal and vertical load transferring effect, dimensionally stable elements, and adequate fire resistance and acoustic insulation. Finished visible surfaces are also available, creating a high degree of interior living comfort from the positive effect of the large area of timber on the indoor climate. Produced as 125 cm wide elements, BBS 125 boasts an optimum ratio of installation width to weight. The individual ceiling elements are load-bearing along 2 axes and are laid tightly against each other without a joint – there are no major contraction joints in normal climatic conditions of use.

### Bonding

BBS 125 ceiling elements can be individually glued using CNC-controlled gluing plants. Even complex machining, like the cutting of recesses into steel beams or two-sided machining, ceiling openings, drill holes, joint-cutting etc., is possible using state-of-the-art CNC gluing equipment.

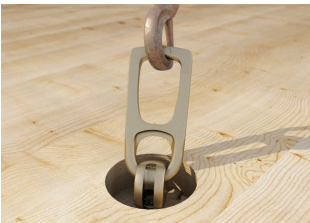




## PACKAGING | TRANSPORT

BBS 125 system ceilings are grouped into packages and wrapped in UV-resistant film, which permits short-term temporary storage directly on site without the risk of weathering damage.

The packages are grouped in accordance with the customer's requirements, depending on the permissible weight of the unloading crane, and loaded onto the truck. The loading order of the packages and BBS elements can also be done to meet the customer's requirements and/or in installation order. With visible quality ceiling elements, the visible side faces downwards, with the exception of the bottommost element of the package, to protect the visible surface from dirt and damage. The truck can be unloaded by crane or fork-lift truck. The ceiling elements can also be laid directly from the truck at the customer's request.



## ASSEMBLY | UNLOADING

On request, we can implement assembly loops and Würth inserted screws starting at a strength of 100 mm and ready for mounting into the Assy lifting system, or a loop lifting system with a blind hole and bar dowel. In the same way, through-hole and blind hole bores can be made for alternative lifting systems, such as e.g. for the Pitzl Power Clamp or similar.

## SALES | CONTACT

[bbs@binderholz.com](mailto:bbs@binderholz.com)

**binderholz** ■

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