

TIMBER CONSTRUCTION



- Proven noise reduction
- Cost-effective - equally as effective as a dry lining
- Reliable planning thanks to tested and approved values (abZ)

INNOVATIVE SOUND CONTROL
for Timber Construction

getzner

HIGH-QUALITY SOUND DECOUPLING WITH TECHNICAL APPROVAL (ABZ)

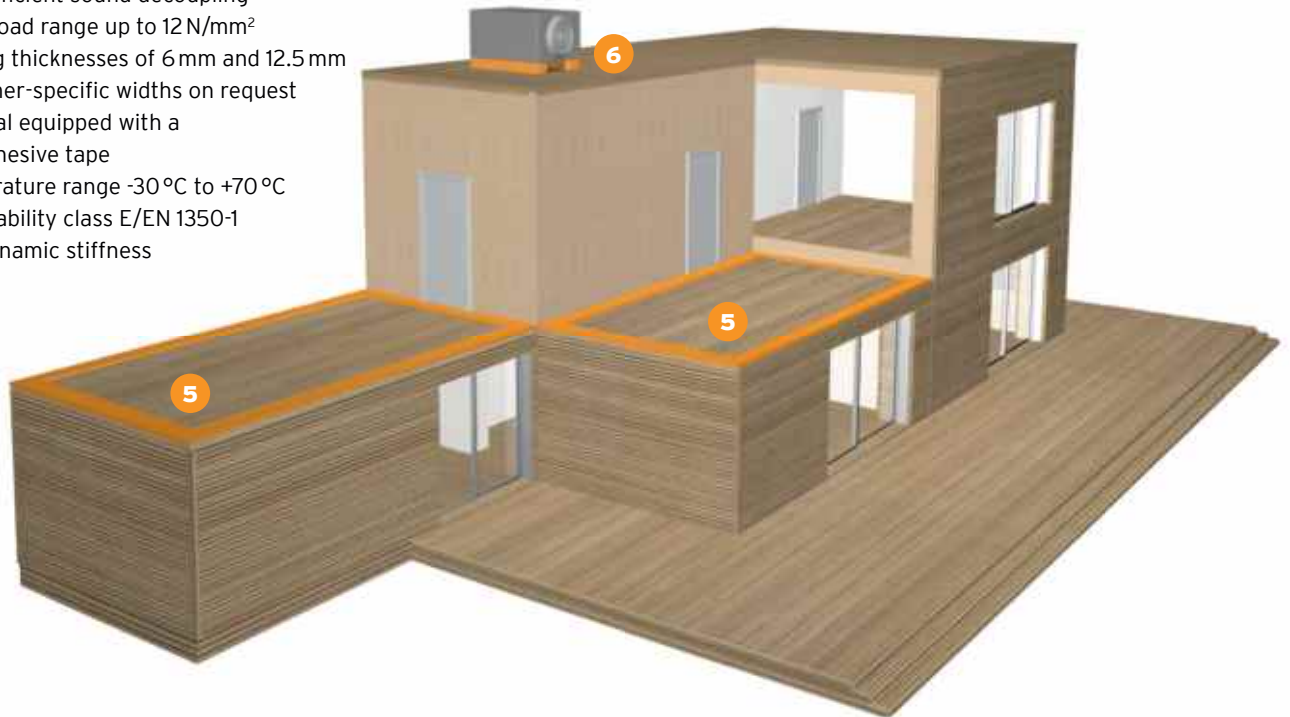
Building projects and therefore planners and the companies carrying out the construction work have been subject to steadily increasing requirements in recent years. This is particularly true for timber construction.

Innovative products and new approaches take care of these requirements, making timber construction one of the most promising industries in the construction sector. On top of that, timber construction offers advantages such as quick construction times, negative carbon footprint, precision pre-fabrication and low dead weight.



Material properties

- Long-lasting product quality
- High-efficient sound decoupling
- Static load range up to 12 N/mm²
- Bearing thicknesses of 6 mm and 12.5 mm
- Customer-specific widths on request
- Optional equipped with a self-adhesive tape
- Temperature range -30 °C to +70 °C
- Flammability class E/EN 1350-1
- Low dynamic stiffness



BENEFITS

- Proven noise reduction
- Cost-effective – equally as effective as a dry lining
- Reliable planning thanks to tested and approved values (abZ)
- Sustainable effectiveness: fatigue strength, minimal settlement behaviour and resistant to ageing



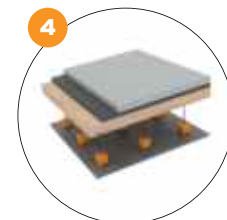
Decoupling of flanking transmission



Impact sound insulation



Elastic dry lining



Decoupled suspended ceilings



Bearing of modules



Bearing of building service equipment

COMFORT IS MORE THAN JUST MINIMUM SOUND INSULATION

The level of sound control should be defined as early as the planning phase. The national minimum requirements given in the standards often do not provide the level of comfort that people expect.



Sylodyn® bearings move properties into the comfort zone. DEGA recommendation 103-1 helps you choose the right sound control class.

Highly effective Sylodyn® material

Sylodyn® is characterised by its dynamic properties and durability. It is resistant to moisture, oils and greases commonly found on construction sites and has proven itself both in real-life applications and at testing institutes for decades. All this makes it the ideal bearing material for joints.

TIMBERCALC

The free online calculation tool for timber construction.

Results in real time:

- Design load capacity
- Optimal Sylodyn® types
- Acoustic effectiveness
- Sylodyn® pre-fabrication to suit the installation in situation
- Installation plans on request



apps.getzner.com

What's your comfort level?

	F	E	D	C	B	A	A*
Impact noise protection $L'_{n,w}$	> 60 dB	≤ 60 dB	≤ 53 dB	≤ 46 dB	≤ 39 dB	≤ 37 ² dB	≤ 30 ² dB
Airborne sound ¹⁾ R'_w	< 51 dB	≥ 51 dB	≥ 54 dB	≥ 57 dB	≥ 62 dB	≥ 67 dB	≥ 72 dB

¹⁾ Rated building sound reduction index, vertical
²⁾ incl. spectrum adaptation terms $C_{1,50-2500}$

Fig.: Sound control classes according to DEGA recommendation 103-1 (2024-09)



THE HIGHER THE QUALITY OF THE CEILING, THE MORE IMPORTANT IT IS TO AVOID FLANKING TRANSMISSION.

COMPREHENSIVE SYSTEM SOLUTIONS



Fig.: Sylodyn® strips in 6 mm and 12.5 mm version

Sound bridges must be avoided during planning and implementation. Therefore, the right fasteners must be selected in addition to the highly-effective Sylodyn® strips. These fasteners must be acoustically optimised and structurally verifiable.

For this purpose, Getzner cooperated with established partners in the timber construction industry to develop solutions for angle brackets, screw connections and plug-in connections.

Everything from a single source

- **Sylodyn® bearing strips**
6 and 12.5 mm
8 bearing stiffnesses
- **GEPI angle brackets**
- **Sylodyn® elastic washers**
with and without centring aid
M8 to M27 screw diameter



Fig.: Screw connection with Sylodyn® EW M8-6 elastic washer

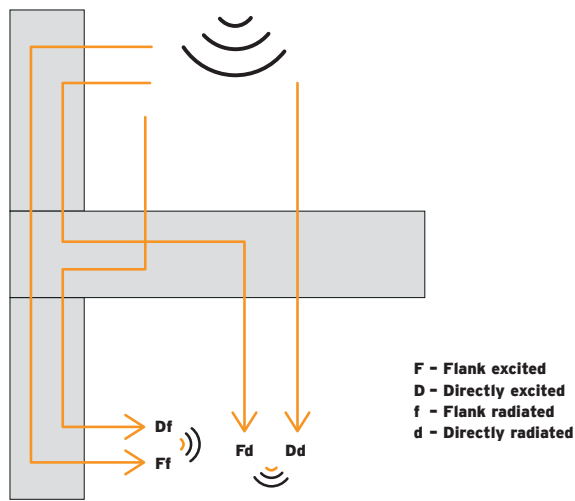


Fig.: Elastic angle bracket GEPI Connect 240

Flanking sound decoupling

The vibration reduction index K_{ij} of the joint plays a key role in transmission. It provides information about the acoustic coupling of a component joint. If the right decoupling version is used, there may even be no need for a dry lining.

The sound level results from the sum of the individual transmission paths



Acoustic improvement
 ΔK_{24} up to 14 dB

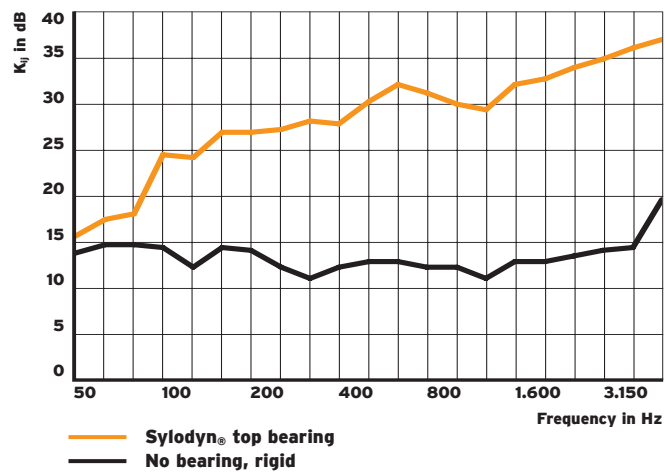


Fig.: Improvement of the joint insulation according to EN ISO 10848

SYLODYN® SOLUTIONS FOR ELEMENT CONSTRUCTION AND MODERN MODULAR CONSTRUCTION



UDQ Hamburg "Woodie" @Götz Wrage

Due to increasing time and budget specifications, modular construction methods gain more and more ground in the building and construction industry. This requires certain measures during planning which offer a wide range of advantages at the implementation.

Optimally decoupled modules

Acoustic decoupling with Syloodyn® prevents impact noise and airborne sound being transmitted from one module to another. This also enables optimisation of the floor construction and, in many cases, weight reduction. Syloodyn® itself is highly effective even with a small bearing thickness (6 or 12.5 mm). Syloodyn® can also be purchased in a self-adhesive version for easy pre-fabrication.

The ultimate quality requirements in element construction

For many years, Getzner has developed solutions with research and development input from leading manufacturers in the timber construction industry. These solutions have also been tested by independent institutes (EMPA, Rosenheim Technical University of Applied Sciences, Holzforschung Austria).

Whether solid wood structures, frame or panel construction or cement-bonded wood fibre composite constructions, Syloodyn® from Getzner and the associated fasteners give planners maximum freedom without having to sacrifice sound control.



Getzner is a reliable, experienced partner

Solutions from Getzner have been successfully used in timber construction since 1998. Alongside the Sylodyn® and Sylomer® materials, Getzner has also helped to develop detailed designs for smooth installation or easy-to-fit adhesive versions.

A dense dealer network made up of established partners means our customers can rely on quick and punctual delivery, anytime.

Advice and individual solutions - everything from a single source

Getzner is far more than a manufacturer of premium vibration isolation. Our technical knowledge, resulting from many years of development and project work, enriches the field of timber construction with tailor-made services and solutions.

» **„They are true vibration protection experts: You can not only rely on the sound control solutions but also on their consultancy service.“**

Christian Kaufmann, Managing Director at Kaufmann Bausysteme GmbH

Working together with:

- Swiss Federal Laboratories for Materials Science and Technology
- University of Technology Sydney
- Institut Fenster Technik Rosenheim
- Technical University of Munich
- University of Innsbruck
- Linnaeus University
- Holzforschung Austria
- University of Northern British Columbia
- Rosenheim Technical University of Applied Sciences
- Slovenian National Building and Civil Engineering Institute



INDIVIDUAL CHALLENGES CALL FOR INDIVIDUAL SOLUTIONS

**Increasing the airborne noise
improvement rating**
 $\Delta R'_{v} = 14 \text{ dB}$

Elastically decoupled ceilings and dry linings

Suspended ceilings offer the option of improved sound control, particularly for renovation projects, but also for new buildings. Getzner provides support, both with elastic ceiling hangers as well as with elastic mounts for false walls.

Highly effective impact noise insulation

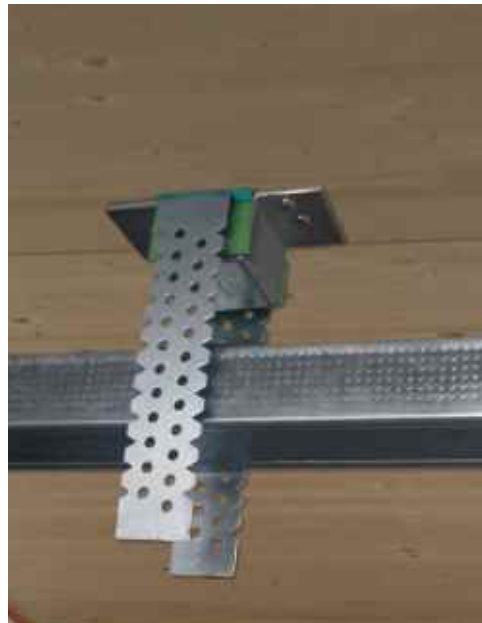
Selecting the right flooring system is crucial when it comes to the acoustic effectiveness of a ceiling. Getzner offers the Acoustic Floor Mat and Acoustic Floor Block products for dry

and wet screed, along with highly effective solutions for hollow floor systems, terraces or renovations of existing ceilings for reducing impact noise.

Bearing of building service equipment

Due to the lower mass of timber constructions, decoupling from building service equipment is very important. Using Sylomer® and Isotop®, facilities are acoustically decoupled from the building structure and disturbing vibrations are reduced. This also reduces unwanted sound radiation in adjacent rooms.

**For renovations with dry
and wet screed**



[getzner.com/
acoustics](https://www.getzner.com/acoustics)

**IN TIMBER CONSTRUCTION
THE DECOUPLING OF BUILDING
SERVICES SYSTEMS IS
PARTICULARLY IMPORTANT.**





Getzner Werkstoffe, Bürs

ENGINEERING A QUIET FUTURE

We are proud to be the leading global specialist in vibration isolation and vibration protection in the railway, construction and industry sectors.

Our innovative products are based on our own in-house developed materials such as Sylomer®, Sylodyn® and Sylodamp®, and are complemented by spring elements such as Isotop®.

Our applications effectively reduce noise and vibrations. They reduce wear, extend the service life of bedded components and improve application suitability, quality and comfort.

We specialise in integrated solutions and targeted services for sustainable vibration isolation. Our work is based on intensive research, climate-friendly production and decades of experience.

getzner.com

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