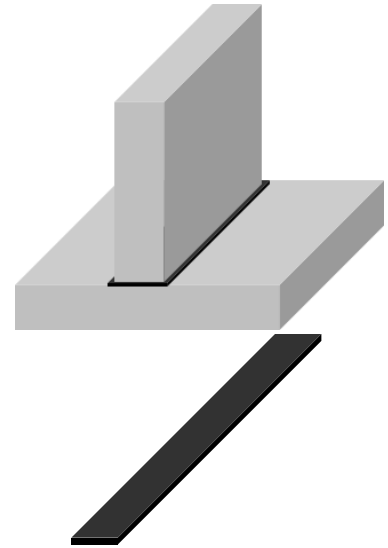


## matteco wall bearing ecowal type A

The wall bearing matteco ecowal type A (insert under the wall) causes a reduction of the sound transmission via the adjacent components. This effectively reduces the longitudinal sound transmission between two floors and compensates unevenness. Airborne sound, such as loud voices or music, spreads through the living space, stimulates walls, ceiling and floor and is transmitted as structure-borne sound to adjacent usage units.

In walls without matteco wall bearing ecowal type A, the structure-borne sound is directly transmitted to other floors.



- Pressure-resistant, homogeneous material.
- Maximum resistance to ageing.
- Low deflection.
- Thicknesses: 3 mm, 5 mm and 10 mm
- Length 1,200 mm in strips or 10 m on rolls.

Thickness in mm	Design Support force in kN/m								
	Width in mm								
	100	120	125	145	150	175	180	200	300
3									
5	250	300	310	360	375	435	450	500	750
10									

Other dimensions on request.

### Type designation for ordering

- matteco ecowal type A - bearing thickness - bearing width

### Airborne sound

Airborne sound is transmitted through the air in the form of sound waves. The sound waves are excited by movements such as fans, ventilation machines or talking people.

### Structure-borne sound

Structure-borne noise is caused by vibrating solids or components caused by hammering, tapping or drilling. Building services equipment such as heat pumps, washing machines or dryers also cause structure-borne noise, as do people walking on the floor. This impact sound is transmitted into the adjacent room via the structure-borne sound and radiated again as secondary airborne sound in the adjacent rooms.



### Technical data

Description	Value
Material:	Recycled rubber powder with special binder (no PU binder)
Density:	1050 kg/m <sup>3</sup>
Thermal conductivity:	0.15 W/m*k
Shore A hardness:	58 ± 5
Reduction of the structure-borne sound conduction:	3 - 6 dB in solid construction, up to 10 dB in timber frame construction
Operating temperature:	-25°C to +50°C, briefly up to 70°C
Fire behaviour:	Efl
Dangerous substances:	none

### Selection of the correct bearing width

Wall bearings matteco ecowal type A are designed at least 20 mm wider than the wall. The wall including plastering and the floor must not touch each other.

Example:

Wall width = 125 mm → Width wall bearing = 145 mm

The wall bearing ecowal A is wider or longer than the brickwork at the long and short sides. The plastered wall and the concrete ceiling remain acoustically separated, thus avoiding structure-borne sound bridges with a high degree of certainty.

## Noise insulation in timber construction

Today, single-family homes and apartment buildings as well as industrial company buildings are increasingly built of wood. This creates new challenges for the materials used for sound insulation.

matteco ecowal **type A - 10 - ... L** and **type A - 10 - ...H** are used load-dependent for sound insulation in timber frame construction to reduce sound transmission at flanks and walls in order to create a pleasant living climate.

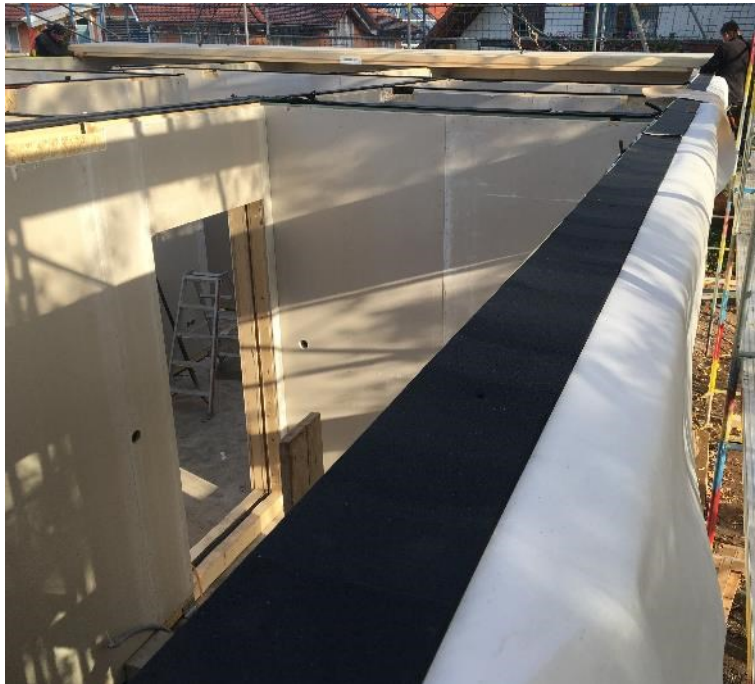
Wood as a building material is very popular and ecological, but it has the disadvantage in terms of sound technology that it can be excited very easily with little energy and radiates sound. Special attention should be paid to the connecting elements between partition walls, ceilings and longitudinal walls.

### Technical data

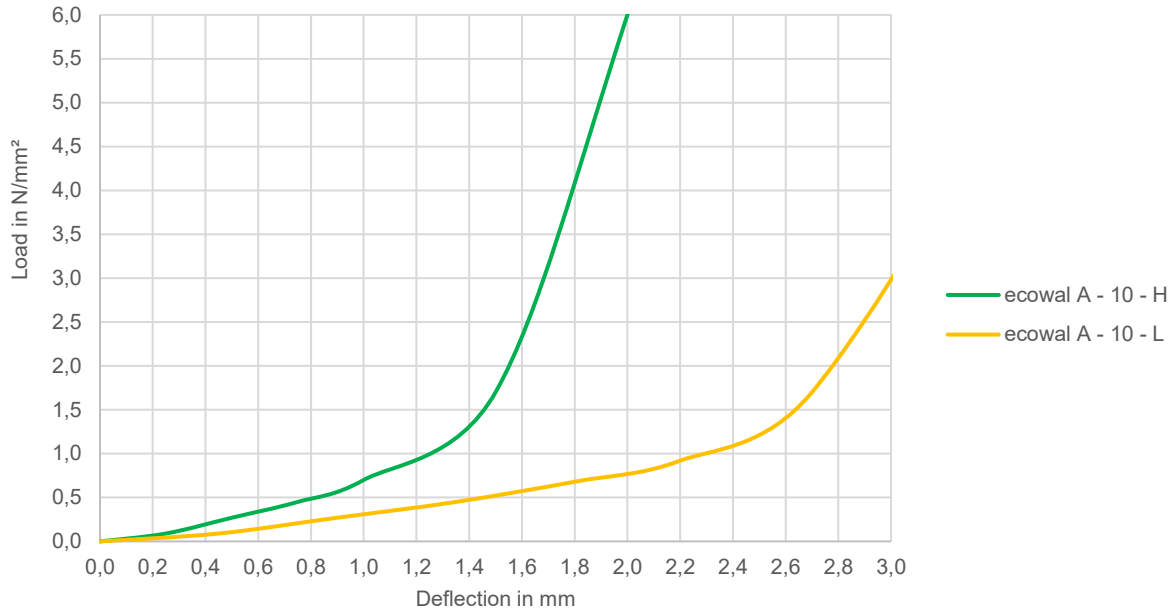
Description	Value	
Item number:	matteco ecowal type A - 10 - (L/H)	
Width:	according to specification	
Length:	10 m on roll	
Strength:	10 mm ± 0,5 mm	
Material:	Recycled rubber powder with special binder (no PU binder)	
	<b>High (H)</b>	<b>Low (L)</b>
Density:	1050 kg/m <sup>2</sup>	880 kg/m <sup>2</sup>
Continuous static load:	up to 7.8 N/mm <sup>2</sup>	4,0 N/mm <sup>2</sup>
Hardness - Shore A:	58 ± 5	45 ± 5
Operating temperature:	-25°C - 70°C, briefly up to 70°C	
Thermal conductivity:	0.15 W/m*k	
Fire protection class:	Efl	
Dangerous substances:	none	

### Type designation for ordering

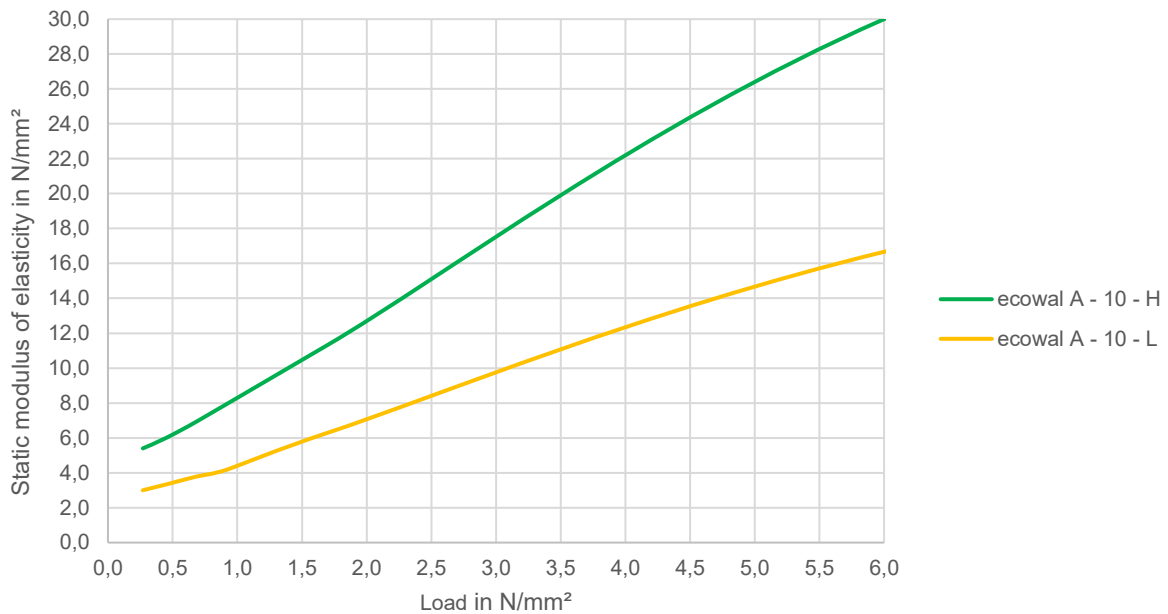
- matteco ecowal type A - bearing thickness - bearing width - L or H



### Deflection

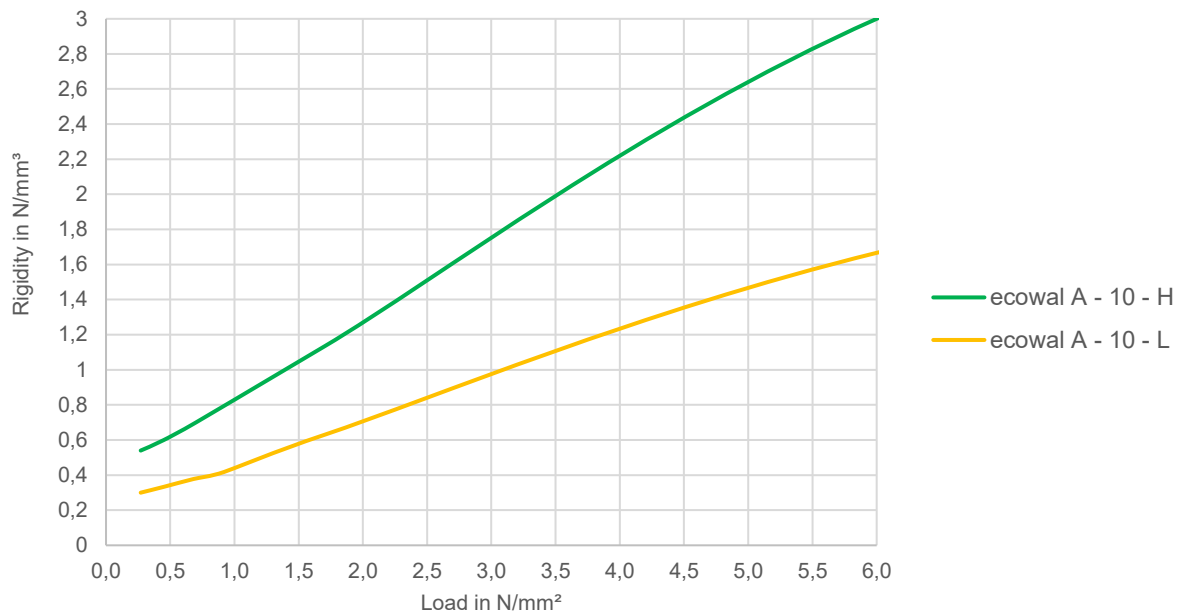


### Static modulus of elasticity

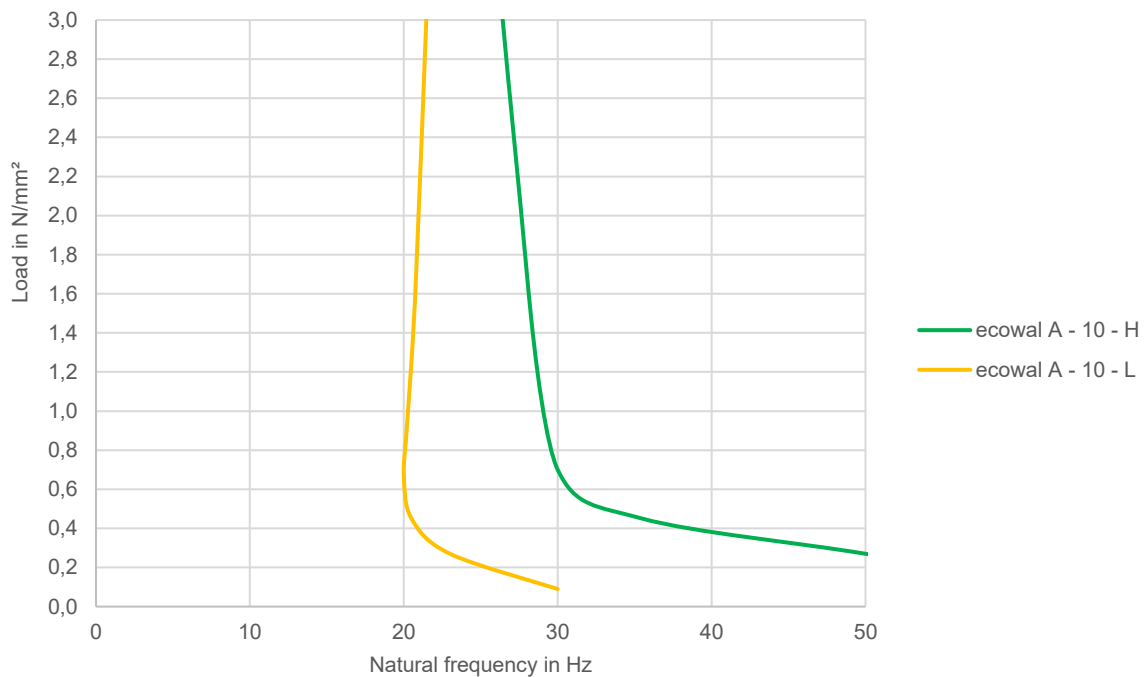


Elastic solutions for the construction industry ++ Resource-saving ++ Ecological ++ Sustainable ++ CO2-efficient

### Stiffness

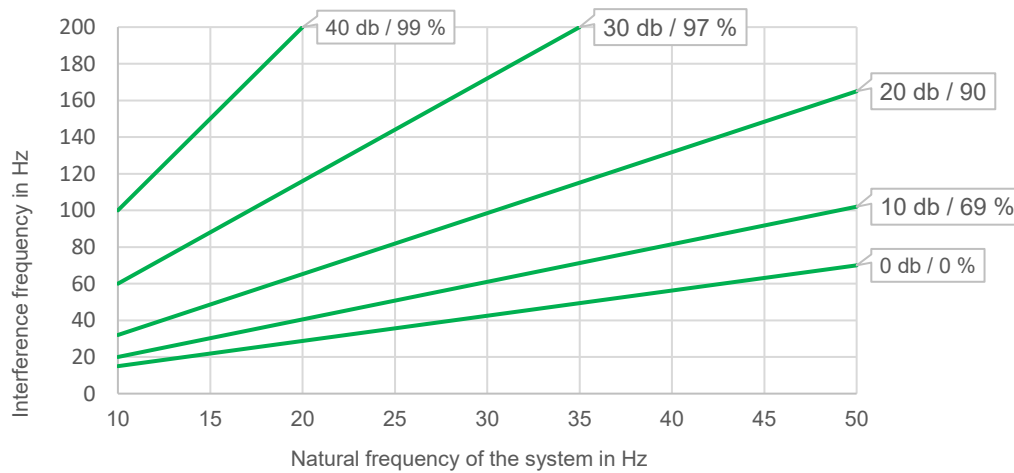


### Natural frequency

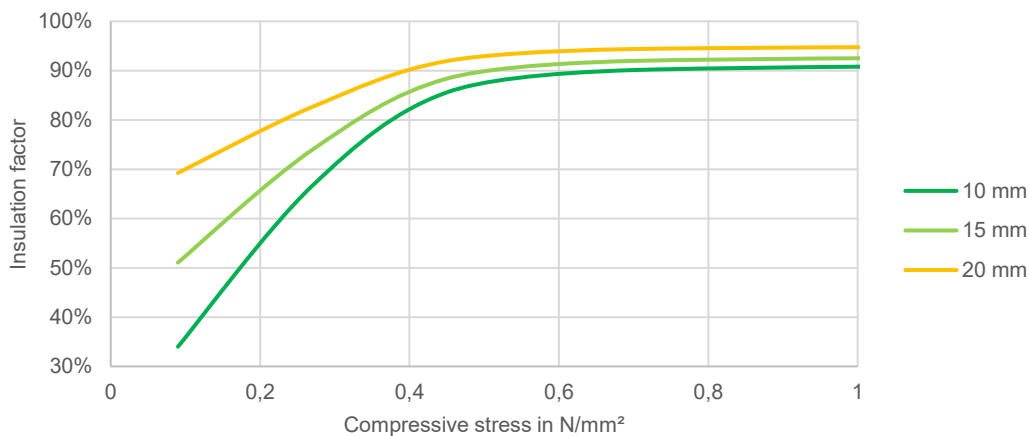


Elastic solutions for the construction industry ++ Resource-saving ++ Ecological ++ Sustainable ++ CO2-efficient

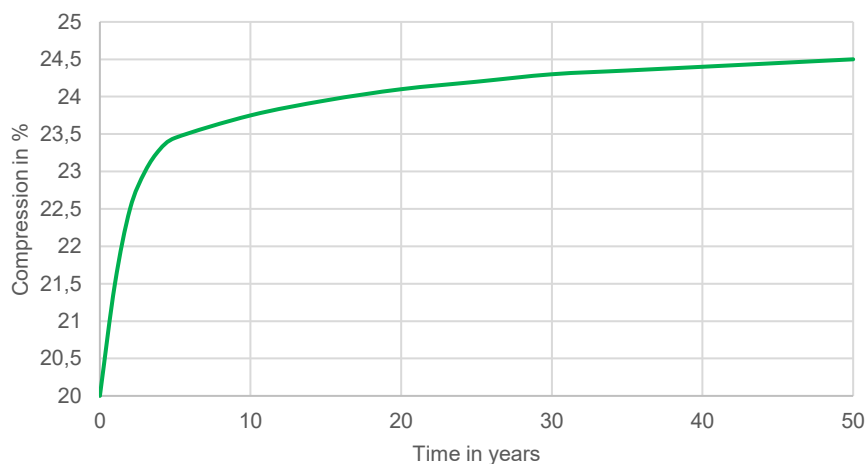
### Vibration isolation



### Insulation effect ecowal A - 10 - H



### Compression



The values given above are indicative and have been determined over a longer, representative period of time in accordance with applicable testing standards or internal company methods. However, they are not considered binding specifications and are therefore in no way to be understood as an express assurance of certain properties. We reserve the right to make further technical developments and to reprint data sheets.