

MORE FROM WOOD.

E EGGER

Egger Ergo Board

**This board allows you
to take it easy.**



 **GERMAN
DESIGN
AWARD
SPECIAL
2018**



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Use the advantages of the EGGER Ergo Board

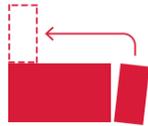
Quick and easy



EGGER Ergo Board is a real one-person board that offers straightforward handling for installation that is up to 30% faster as compared to standard boards. This is thanks to the special

shiplap, the tongue and groove profile, and the nail grid on the upper side of the board, as well as the low weight of < 12 kg / board.

Easy installation requiring little cut



EGGER Ergo Board is fixated with the help of the innovative circumferential edging profile with low-cut endless installation onto the studs. In the case of non load-bearing partition walls,

board joints placed along the studs up to a distance of 625 mm pose no problem. Horizontal installation also reduces the use of fastening tools.

Can be used on wood and metal studs



The EGGER Ergo Board can be used without issues to clad partition walls with wood or metal studs. This opens the way to a large range of

applications, from classical drywall constructions to modernisation projects, such as for example attic extensions.

Stable grip at all points

The Ergo Board provides the even and stable 12 mm thick structure for plaster board and significantly increases wall stability. Plasterboard cladding can be efficiently and easily fixed directly onto

the Ergo Board. Screwing onto the Ergo Board is done with standard screws irrespective of load and of studs. The special anchors common in drywall constructions are no longer necessary.



Safe from fire and noise

EGGER Ergo Board offers in light partition walls high levels of fire safety and is tested for a fire resistance duration of 30 to 90 minutes for a wall height of up to 5 m.

The noise insulation can be selected, depending on requirements and structure of the partition wall, between 40 dB and 65 dB.



→ Other advantages of the EGGER Ergo Board

- **EGGER Ergo Board** is tested for compliance with DIN 4103-1 as sub-layer in drywall constructions and increases the safety and shock resistance of partition walls in private and public buildings.
- **EGGER Ergo Board** can also be installed in walls and pitched roof areas with the use of blow-in insulation.
- **EGGER Ergo Board** has moisture-resistant gluing for utility class 2 and is very well suited for increased air humidity during construction.
- The board size is well suited for span widths of 450 - 625 mm for horizontal or 600 mm for vertical installation on metal and wood studs.
- **EGGER Ergo Board** is glued 100% formaldehyde-free, made of the renewable raw material wood, and, as CO₂ storage, improves the sustainability of the construction.

How is the EGGER Ergo Board installed?

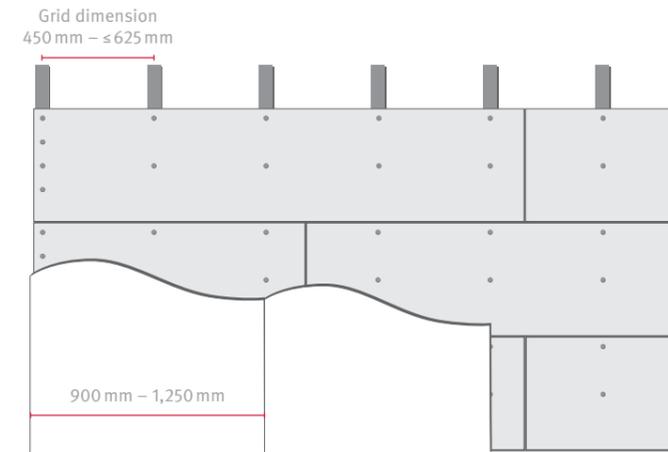


→ Learn more about the **3** different options for installing the EGGER Ergo Board.

Endless installation

The endless installation can be used for partition walls in dwellings and public areas with common end use situations. The tongue and groove joint provides high levels of stiffness also with non-supported joints and allows an efficient use of Ergo Board with little waste. Wall-mounted elements, such as cupboards, shelving, and lighting systems pose no problems.

The fastening on the outer studs of each Ergo Board always requires 150 mm spacing. For a grid dimension of 450 mm, a fastener spacing of ≤ 300 mm is sufficient. Fasteners should have a distance to the board edge of at least 9 mm.



EGGER Ergo Boards with endless installation and plaster board cladding in the grid dimensions 450 mm

→ EGGER Ergo Board provides a stable substructure for the gridless fixation of plaster boards.



1 Place the Ergo Board with the shiplap joint on the long edge. To make sure the various edging profiles are in the right position, the marking on the surface should be legible from bottom / left to top / right.



2 Push the board into the right position.



3 A stable joint is achievable on non-supported joints.

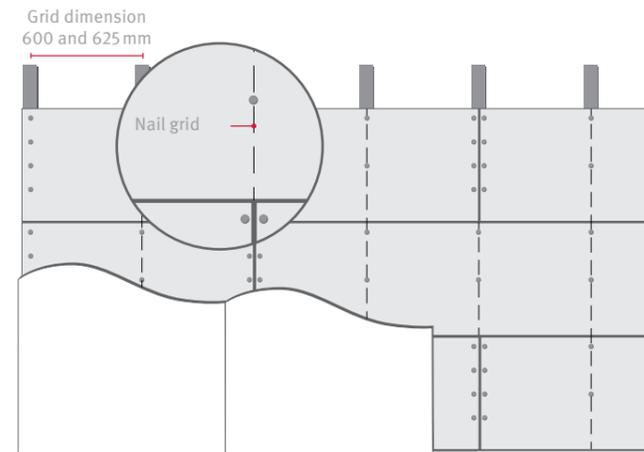


4 Fasten horizontal joints with just one screw. Fastener spacing at board edge is 150 mm, in the middle area it is 300 mm.

Horizontal installation

For higher drywalls (>5 m) and higher attached hanging loads, the vertical board joints should be supported by the studs. The **nail grid** printed on the surface is designed to support this installation method by displaying the 600 or 625 mm grid.

This will speed up the work especially for the last row of boards when the studs are no longer visible. The first grid has a width of 600 or 625 mm (half width of the studs). Divide the wall length by the distance of 600 or 625 mm; the last grid corresponds to the remaining wall length.

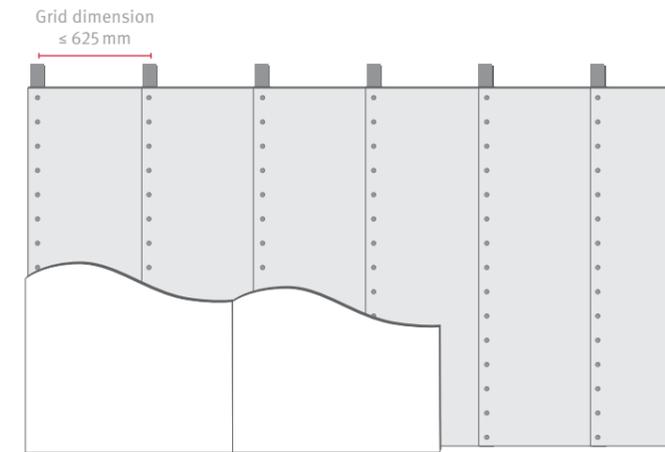


Horizontal installed EGGER Ergo Board covered with plaster board

→ EGGER Ergo Board provides a stable substructure for the gridless fixation of plaster boards.

Vertical installation

Vertical installation is especially recommended when the ceiling height complies with the 2,400 mm or 2,500 mm board length. Working hours can be reduced due to **only one screw** being needed per fastening point on the studs. The special shiplap profile on the long board edges provides a 2 mm expansion gap without additional effort.



Vertical installed EGGER Ergo Board covered with plaster board

→ EGGER Ergo Board provides a stable substructure for the gridless fixation of plaster boards.



1 Place the Ergo Board with the shiplap joint on the long edge. To make sure the various edging profiles are in the right position, the marking on the surface should be legible from bottom / left to top / right.



2 Use the nailing grid to adjust to the right position.



3 Fix the Ergo Board. It is secured in place by the edge profiling.



4 Install the Ergo Board with staggered T-joints.



1 Put the Ergo Board in the vertical direction.



2 Interlock boards together using a shiplap profile. The second board is now kept in position.



3 Fasten the Ergo Board with 150 mm spacing.

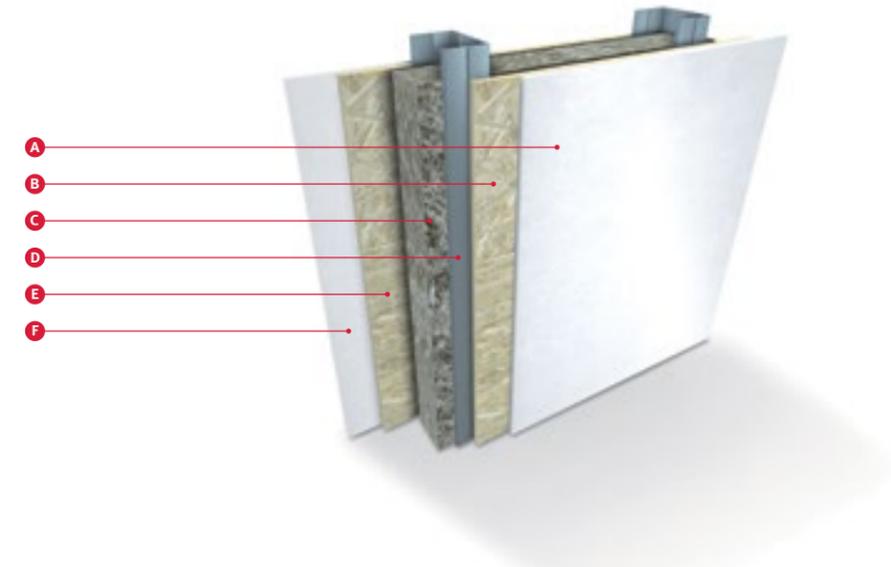


4 Fix the Ergo Board together with the neighbouring board using one screw into the stud.

Tested fire and noise proofing for metal studs

Light partition walls have a wide range of applications in domestic and public buildings. Often their use is combined with fire resistance and noise protection requirements. The EGGER Ergo Board provides the only available system combining wood-based materials as a sub-layer and a metal stud structure successfully tested and classified

according to the requirements of EN 13501-2 by the Materialforschungs- und -prüfanstalt (MFPA) Leipzig as notified body. Please contact our Technical Hotline for the complete classification report and the building inspection certificate (abP). The certificate for partition walls with wood studs must be in line with DIN 4102-4:2016, Table 10.3 or 10.6.



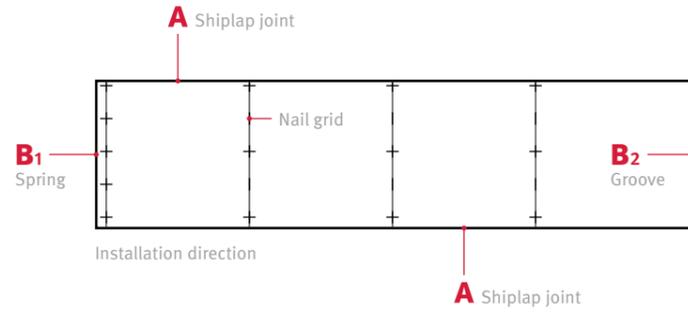
Construction requirements for fire-retardant and fire-resistant partition walls

Icon	Wall structure	Fire classification according to EN 13501-1		
		EI 30	EI 60	EI 90
A	Plasterboard according to EN 520 – type A	9.5 mm	–	–
	Plasterboard according to EN 520 – type DF	–	15 mm	15 mm
B	EGGER Ergo Board	12 mm	12 mm	12 mm
C	Mineral wool 40 kg/m ³ according to EN 13162 A1, melting temperature 1,000°C	60 mm	100/95 mm	100/95 mm
D	Depth of the profile of the metal studs max. spacing 625 mm	75 mm	100 mm	100 mm
E	EGGER Ergo Board	12 mm	12 mm	12 mm
F	Plasterboard according to EN 520 – type A	9.5 mm	–	–
	Plasterboard according to EN 520 – type DF	–	15 mm	15 mm
🔥	Fire protection report	abP P-SAC/3.2-804 Ä KB 3.2/15-013-3	abP P-SAC/3.2-804 Ä KB 3.2/15-013-4	abP P-SAC/3.2-804 Ä KB 3.2/15-013-4
🔊	Sound protection Airborne sound according to ISO 10140-2	51 dB	56 dB	56 dB
	permissible wall height for classes 1 and 2 in accordance with DIN 4103-1	5 m	5 m	3 m
	Wall thickness (mm)	118 mm	154 mm	154 mm

Construction requirements for noise-proofed partition walls

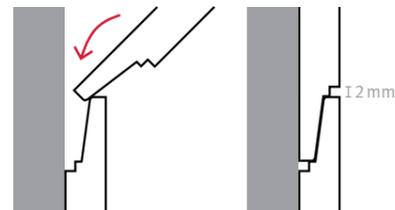
Icon	Wall structure	Noise protection airborne sound in [dB] – check value according to ISO 10140-2				
		40 dB	51 dB	56 dB	61 dB	65 dB
A	Plasterboard according to EN 520 – type A	–	9.5 mm	–	–	–
	Plasterboard according to EN 520 – type DF	–	–	15 mm	15 mm	15 mm
Z	Bavaria Phonestar TRI 15	–	–	–	15 mm	15 mm
B	EGGER Ergo Board	12 mm	12 mm	12 mm	12 mm	12 mm
C	Mineral wool 40 kg/m ³ according to EN 13162 A1, melting temperature 1,000°C	60 mm	60 mm	100/95 mm	100/95 mm	100/95 mm
D	Depth of the profile of the metal studs max. spacing 625 mm	75 mm	75 mm	100 mm	100 mm	100 mm
E	EGGER Ergo Board	12 mm	12 mm	12 mm	12 mm	12 mm
Z	Bavaria Phonestar TRI 15	–	–	–	–	15 mm
	Plasterboard according to EN 520 – type A	–	9.5 mm	–	–	–
F	Plasterboard according to EN 520 – type DF	–	–	15 mm	15 mm	15 mm
	Test report MFPA Leipzig	PB 4.2 / 16-393-1	PB 4.2 / 16-393-2	PB 4.2 / 16-393-3	PB 4.2 / 16-393-4	PB 4.2 / 16-393-5
🔊	Noise insulation measurement Rw (C;Ctr) according to ISO 10140-2, assessed according to ISO 717-1	40 (-4 / -11)	51 (-4 / -10)	56 (-3 / -8)	61 (-2 / -6)	65 (-2 / -7)
	Wall thickness (mm)	99 mm	118 mm	154 mm	169 mm	184 mm

Fastening



A Innovative shiplap joint on the long board edge

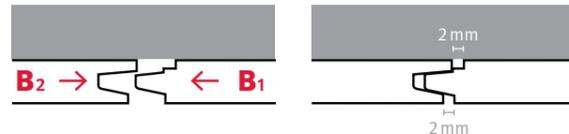
The shiplap on the long board edge allows horizontal or vertical installation depending on how the grid distance and the later use of the partition wall are chosen. The conical shape of the profile and the integrated step easily create a 2 mm expansion gap. This guarantees fast, ergonomic, and easy installation.



Vertical section

B Advanced tongue and groove joint on short board edge

The tongue and groove profile on the short side of the board allows endless horizontal installation independent from the distance of the studs or intended end use. The stiffness is sufficient for span widths of up to 600 or 625 mm. The conical shape of the profile and the integrated step easily create a 2 mm expansion gap. This guarantees fast, ergonomic, and easy installation.



Horizontal section

Fastener and fastener spacing

The type of fastener, the length, and the diameter depend on the board thickness, the stud material, and available tools. The fastener spacing to the board edge is of max. **150 mm**, in the middle range

max. **300 mm**. The printed nail grid simplifies mounting within the grid dimension 600 or 625 mm. The distance from the fastener to the board edge must be of at least 9 mm.

Screw connection

Coreboard	Fastening tools	Recommended fastening tool size
Wood	Countersunk head, self drilling screws Stapling Nails	4 × 40 mm 1.53 × 40 mm 2.8 × 40 mm
Steel (approx. 0.6 mm)	Milling head screw, Hilo thread, phosphated, such as for example KNAUF, Viti Maxi screws, Fermacell Drill Tip screws, WÜRTH	3.5 × 25 mm 3.5 × 35 mm 3.9 × 35 mm

External components and blow-in insulation

Ergo Board interior cladding of external components such as wall and pitched roof areas

Only those Ergo Boards that are installed vertically as single-span boards on the studs can be used for load-bearing and stiffening.



Ergo Boards that are installed horizontally represent non load-bearing cladding. It can be calculated on the basis of its physical properties as vapour barrier with μ (dry/wet) = 200 / 150, sd value = 2.4 m / 1.8 m and as air seal level (air exchange rate n50 = >0.6 ... 1.5 per hour).

In order to achieve air tightness, all board joints must be sealed with a suitable adhesive tape.

→ We recommend Ampacoll XT, proclima Tescon, SIGA Rissan, Isocell Airstop Elasto.

Ergo Board when using cellulose blow-in insulation



Wood studs clad with Ergo Board can be injected with cellulose insulation in the raw density range of approx. 45 to max. 80 kg / m³.

Possible injection techniques include hose blowing with attachment sleeve or spray blowing.

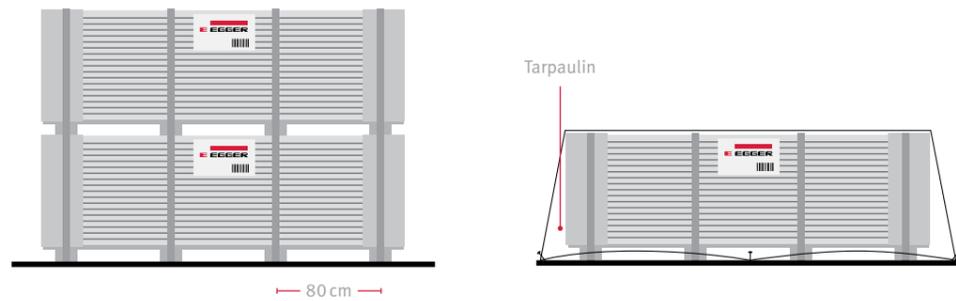
→ Further information is available in the Technical Data Sheet "EGGER Ergo Board – Processing recommendation blow-in insulation".

Handling

Storage and packaging

Correct storage and protective measures during transport are essential for problem-free handling. The following simple principles should be taken into account:

- EGGER Ergo Board should be stored in a dry area flat on squared timber. The span width of the squared timbers should not exceed 80 cm. It is important to ensure a consistent height of the squared timbers.
- If several pallets are stacked on top of each other the squared timber should be aligned by height.
- Steel bands should be undone immediately on-site to prevent compressive strain inside the package.
- When stored outdoors, there should be sufficient distance from the ground. The boards should be covered with tarpaulin in order to ensure air circulation.
- Before using the boards, a 48-hour conditioning period is recommended to allow the wood to acclimatise to local humidity.



Note: In the case of vertical stacking, a maximum of 5 pallets is recommended.

Delivery programme EGGER Ergo Board

Length x width mm*	Thickness mm	Long edge	Weight per board kg	m ² /board	Items / Package	m ² /package
2,500 x 600	12	Shiplap joint	~ 11	1.5	58	87

* Coverage incl. 2 mm expansion gap.
The board length corresponds to the main axis of the OSB.

Service

You receive

- targeted support and professional advice for material selection and fabrication
- technical field service
- technical information portal on the Internet www.egger.com/bauprodukte
- e-mail support at bauprodukte@egger.com
- extensive planning and product documentation
- participation in trade fairs
- association work
- technical training
- plant visits
- EGGER Professional Programme

More service, more knowledge – our **Technical Hotline** answers questions concerning building physics, fire protection, and statics in timber frame construction with professional know-how.

The advice is focused on economic and practice-oriented constructions, as well as the professional utilisation of our building products timber, OSB and DHF.

→ **Technical Hotline:**
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