

## INTERNAL WALL

Internal walls of wood boards, mineral wool insulation and wood or steel studs. Wall panels from Fibo-Trespo. Boards are mounted in one or more layers.

### Fire resistance

Wood-based plates must have a minimum thickness of 9 mm and density of at least 600 kg/m<sup>3</sup>. The wall panel boards from Fibo-Trespo have a thickness of approx. 11 mm, and a density of about 800 kg/m<sup>3</sup>. If other thickness is required, it is described at the figure in question. All types of boards are classified in «K210 A2-s1, d0» (K1-A), «K210 B-s1, d0» (K1) and «K210 D-s2, d0» (K2).

### Noise reduction

The wall panel boards from Fibo-Trespo have a thickness of approx. 11 mm. If other thickness is required, it is described at the figure in question.

### Alternative materials

The internal walls that are made of alternative materials, are noted in the table. The table also describes the difference in the materials as well as how the alteration changes the materials noise and fire properties.



Insulation thickness (mm)	Size of studs (mm)	Noise reduction (dB)	Fire resistance	Note
70	36x73	37-39	EI30	
100	48x98	40-43	EI30	1)

Note	Alternation	Noise reduction (dB)	Fire resistance
1)	Rockwool insulation	40-43	EI60/REI30

Fig. 1 Internal wall  
All through wood studs. Single board.

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Insulation thickness (mm)	Size of studs (mm)	Noise reduction (dB)	Fire resistance
100	36x73	45	EI30
120	36x98	46	EI30

Fig. 2 Internal wall  
Offset wood studs on wood sill. Single board.



Insulation thickness (mm)	Size of studs (mm)	Noise reduction (dB)	Fire resistance
100	36x73	50	EI30
120	36x98	50-51	EI30

Fig. 3 Internal wall  
Offset wood studs on wood sill. Double boards.

## INTERNAL WALL



Insulation thickness (mm)	Size of studs (mm)	Noise reduction (dB)	Fire resistance	Note
2x70	48x73	54	REI30	1), 3)
2x100	48x98	55	REI30	2)

Fig. 4 Internal wall  
Double wood studs on double wood sill. Double boards.

Note	Alteration	Noise reduction (dB)	Fire resistance
1)	2x70mm rockwool Single 16mm particle board and single 12/11mm boards on both sides.	56	REI60
2)	13mm plasterboard and 12mm Forestia or 11mm Huntonit or 11mm Focus Fibo-Trespo wall panel on outside.	55	REI60
3)	2x70mm rockwool. Single 16mm particle board and single 12/11mm board both sides.	54	EI60

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Insulation thickness (mm)	Size of studs (mm)	Noise reduction (dB)	Fire resistance	Note
70	75	42	EI30	1)
100	95	43	EI30	2)

Note	Alteration	Noise reduction (dB)	Fire resistance
1)	Double boards, both sides	47	EI30
2)	Double boards, both sides	48	EI30

Fig. 5 Internal wall  
All through steel studs. Single board.



Insulation thickness (mm)	Size of studs (mm)	Noise reduction (dB)	Fire resistance	Note
100	2x75	52	EI30	1)

Note	Alteration	Noise reduction (dB)	Fire resistance
1)	Single board	47	EI30

Fig. 6 Internal wall  
Offset steel studs. Double boards.