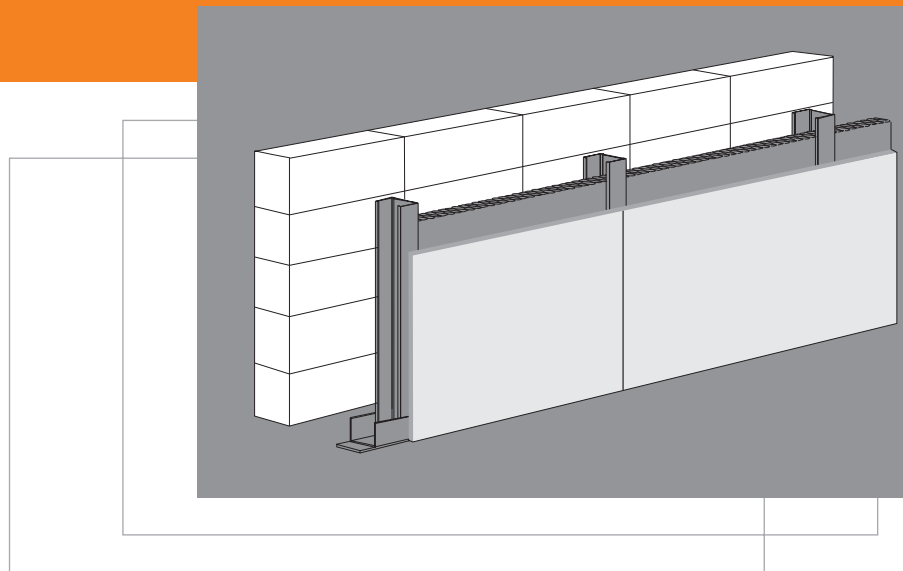


FERMACELL Dry Lining

3 S 11

Increased sound insulation
up to R'_w 20 dB



Description.

FERMACELL is a high performance, multipurpose building board that combines in a single product exceptional fire, impact and moisture resistant properties with high levels of acoustic insulation and weight carrying capacity. The simple squeegee-applied FST finishing system eliminates plastering trades and dries in 30 minutes.

Specification and Use.

FERMACELL is a dense, homogenous, square edged board that is butt-jointed using FERMACELL Jointstik adhesive. The board is fixed to steel studwork (min 0.6 mm gauge with a 50 mm fixing face) using FERMACELL screws.

FERMACELL recommend Protektor studwork, which is available from Cornercare (01562 515200).

Full installation details are given in the Handy Guide. NBS specifications and Autocad drawings are also available.

FERMACELL Dry Lining 3 S 11

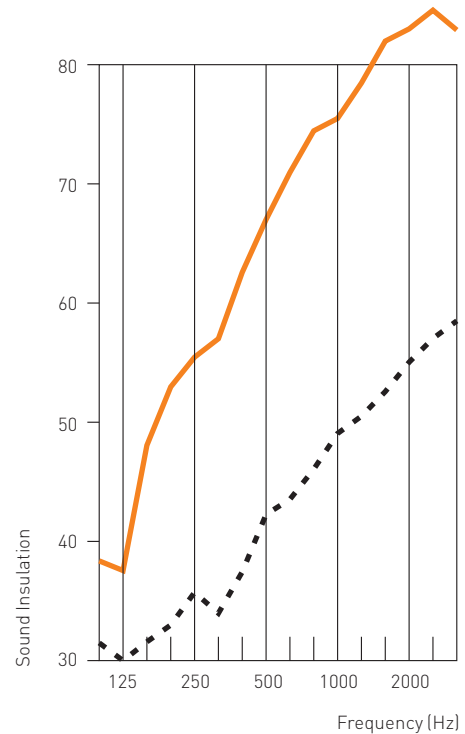
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Airborne sound insulation according to DIN 52210

The results for FERMACELL construction 3 S 11 placed in front of 115 mm hollow brick wall (1200 kg/m³) with 15 mm cement lime plaster both sides

Wall with Dry Lining
 R'_w 64 dB

Wall without Dry Lining
 R'_w 45 dB



Tested by ITA Wiesbaden.
Test report: L111.87 - P 270/86

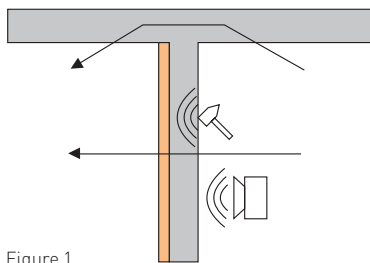


Figure 1

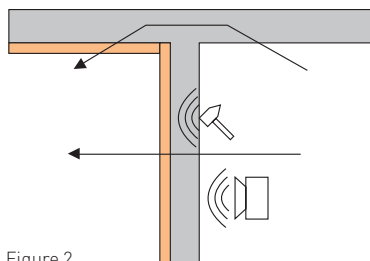


Figure 2

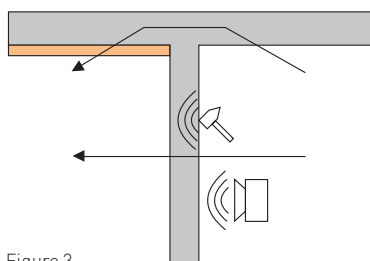


Figure 3

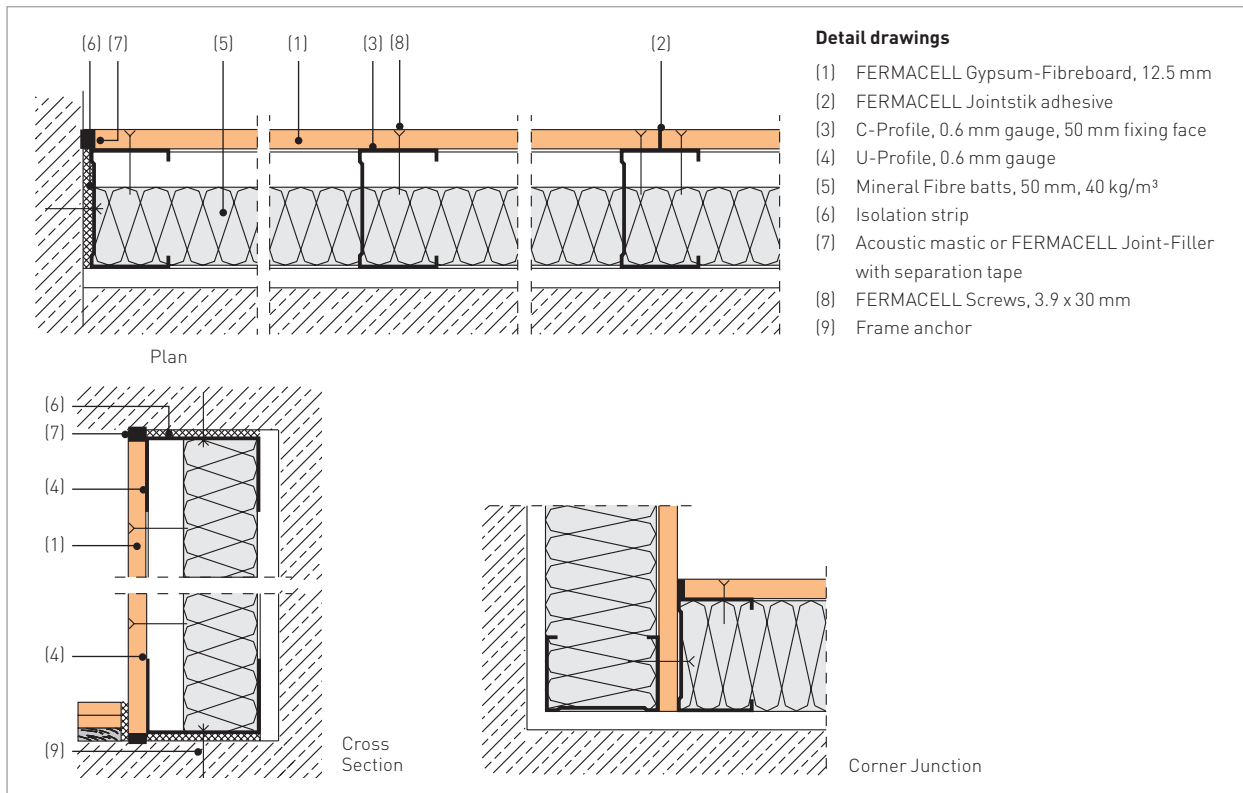
When dry lining to improve sound insulation, it is important to take into account the flanking elements of the building. Where a low mass internal wall adjoins high mass external walls, then the dividing wall alone may be faced (see figure 1). However, both the dividing wall and the flanking walls may be of insufficient mass (for example in constructions of lightweight blocks) and in this case it may be necessary to face both the dividing and flanking walls (see figure 2).

Where the acoustic performance of the dividing wall is adequate, but, for example, a continuous flanking wall of lightweight blocks has been used, then FERMACELL may be used to improve the acoustic performance of the flanking wall (see figure 3).

As a rule, where higher levels of sound insulation are required, adjoining structural components will also have to be clad with FERMACELL dry linings. In the case of floor slabs, a suspended ceiling using FERMACELL boards on Protektor TPS hangers in conjunction with FERMACELL dry flooring systems on the top of the slab can be used to provide the appropriate level of insulation.

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Technical Data:

Cladding	FERMACELL board, 12.5 mm	
Mineral Fibre Insulation	50 mm thick, 40 kg/m ³	
Maximum Wall Height (600 mm stud centres)	3000 mm	
Improvement in Sound Insulation	R'_w 20 dB	
Additional Wall Thickness	approx 70 mm	
Resistance to Heat Transmission $1/\alpha$	1.29 m ² /KW	
Weight of Wall	approx 18 kg/m ²	
Weight carrying ability	Ø 8 Wallplug	500 N
	Ø 5 Screw	300 N

Other construction details and technical information sheets are available from XELLA.

This publication contains detailed instructions for the correct installation of FERMACELL dry lining.

We reserve the right to make changes in the interest of technical improvement.

All information correct as at 08.03

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