

SOLUTION: TOP FLOOR



WoodyFIX

THE BASIC INSULATING MODULE FOR THE SIMPLE INSULATION OF THE TOP FLOOR

INSULATION WORK IN PRACTICE



The WoodyFix elements are delivered bundled together in packages on pallets. They are handily portioned so that they can be transported up to the attic with no great effort. Simply stick the modules together where you need them.

The insulation of the top floor is legally prescribed in Austria with a thermal insulation value (U value) of at least $0.2 \text{ W/m}^2\text{K}$ and in Germany with $0.24 \text{ W/m}^2\text{K}$.



Set up the modules at a centre-centre distance of approx. 80 cm. Then place the 4/6 laths into the cut-outs provided (without screwing).



Lay the floor boards and fix them. With an 18 mm OSB wood-based panel, the construction is an accessible system with a very high load capacity.



Afterwards the construction is filled with the ISOCELL cellulose.

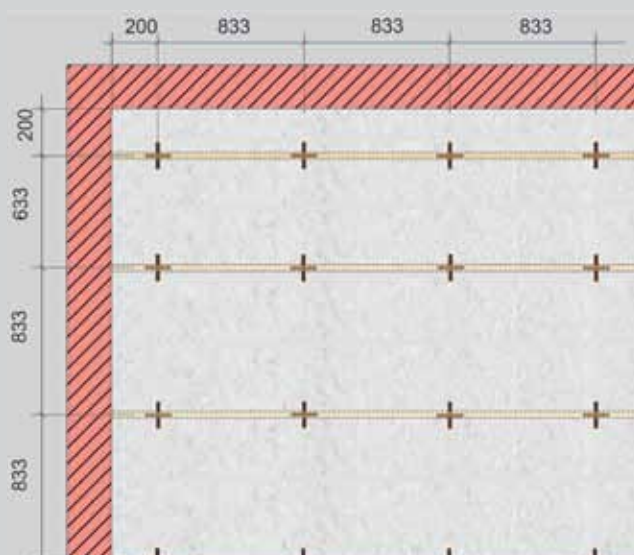
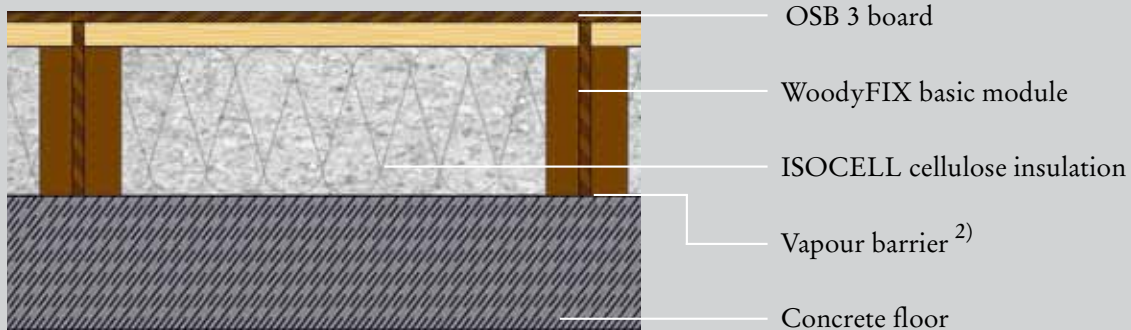
INSULATION IS ALWAYS A GAIN!

There is no other part of the building where so much energy can be saved with so little effort!

With an insulation thickness of 32 cm (on an area of 100 m²) you can save 530 litres of fuel oil per year!



SOLUTIONS IN DETAIL, PLAN VIEW AND SECTION



ADVANTAGE

- Top thermal insulation values
- Outstanding protection against heat
- Sustainable recycling product
- No hauling of insulating material
- Fast and clean
- No wastage, no joints
- Attic does not have to be completely cleared out
- Attic remains accessible

TECHNICAL DATA FOR THE STRUCTURAL ELEMENT ILLUSTRATED



Building material	Layer thickness (mm)	λ (W/m K)	Fire class (EN)
OSB 3 board	18	0,13	D
WoodyFIX basic module	160	0,13	D
ISOCELL cellulose insulation	160	0,039 0,040 (D)	B-s2,d0

Thickness of insulating material (mm)	Insulating material density (kg/m ³)	GWP ¹⁾ (kg CO ₂ äqv./m ²) for overall structure	PHI (Phase shift in hours)	U value (W / m ² K)
220	46	26,07	13,3	0,168
260	48	21,65	15,0	0,144
320	50	15,04	17,2	0,118
360 ³⁾	52	10,36	19,1	0,108
400 ³⁾	52	6,15	20,8	0,096

1) Total GWP (Global Warming Potential) = density (kg/m³) / 1000 x layer thickness (mm) x percentage of the layer (%) x GWP (kg)
The values come from the IBO - Austrian Institute of Building Biology and Ecology.

2) A vapour barrier is not always required; please contact our Technical Department if you have any questions;

3) WoodyFIX is available in the construction thicknesses 220 mm, 260 mm and 320 mm – naturally we also supply other thicknesses on request;

REFERENCES



House in Palting

The potential for an energetic improvement of the Moser family's large house in Palting was recognised and tackled. The WoodyFIX elements were brought into the attic and stuck together and the OSB boards were attached. Afterwards the hollow space was filled with ISOCELL cellulose.

“One of the biggest advantages of the WoodyFIX system is that it is very, very easy to handle and you need very little time for the entire operation”, says Wolfgang Hochreiter, foreman from the Öko-Dämm company. The processing of the ISOCELL cellulose is also totally simple, “above all because the cellulose finds its way into the tightest nooks and crannies when it is injected and is thus settlement-free and simple to process.”



St. Marien elementary school in Weichstetten

The district of St. Marien chose the WoodyFIX system for the insulation of the attic of its elementary school. Apart from the use of an ecological insulating material – St. Marien is a ‘climate protection district’ – a deciding factor was that the attic remains usable as an accessible area. With the insulation of the top floor the elementary school in St. Marien now saves 42% heating energy.