

U-values: pitched roof

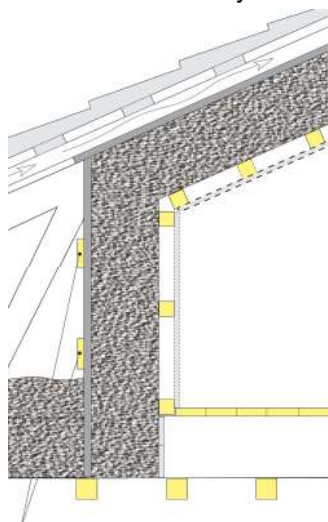


The structure from inside out:

- Gypsum board 11 mm, $\lambda_{dec} = 0,21 W/(m K)$
- Studs / air gap 21 mm
- Air/vapour barrier
- Termex-Cellulose insulation/ beams 50 x d, k 900, $\lambda_{dec} = 0,038 W/(m K) / 0,13 W/(m K)$
- Wind board, wood fiber board 12 mm, $\lambda_{dec} = 0,055 W/(m K)$
- Air gap, roofing with underlayment

Additional parameters:

- Thermal resistivities of surfaces $R_{si} + R_{se} = 0,1 + 0,1 = 0,2 (m^2 K)/W$
- Thermal resistivity of air gap, $R_g = 0,16 (m^2 K)/W$
- Thermal resistivity of roofing, $R_u = 0,20 (m^2 K)/W$



U-value (W/m^2K)	Thickness (mm)	Density	AFr	RAM
0,19	200	42	17	4
0,17	225	43	18	4
0,16	250	43	18	4
0,14	275	43	18	4
0,13	300	44	19	4
0,12	325	44	19	4
0,11	350	44	19	4
0,10	400	45	20	4
0,09	450	45	20	4
0,08	500	45	20	4
0,07	575	45	20	4

Presented values and pictures are only referable.