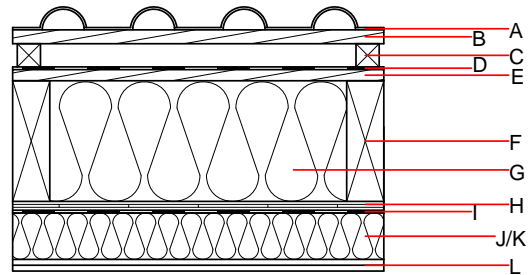


Pitched roof - sdrhzi12b-00

pitched roof, timber frame construction, ventilated, with dry lining, not suspended, Gipsplatte

Performance rating

Fire protection performance	REI	60
Classified by HFA		
Thermal performance	U Diffusion	0.12 W/(m ² K) suitable
Calculated by IBO		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _i)	52(-2;-8) dB
Assessed by HFA		
Mass per unit area	m	106.50 kg/m ²



Note: The design of the under-roof construction and of the counter-battens have to be specified according to the roof pitch and the national requirements.

Register of building materials used for this application, cross-section (from outside to inside, dimensions in mm)

	Thickness	Building material	Thermal performance				Reaction to fire EN
			λ	μ min – max	ρ	c	
A	15.0	or tiled roof			2000		A1
B	30.0	spruce wood battens (30/50)	0.120	50	450	1.600	D
C	50.0	spruce wood counter battens (minimum height 50 mm)	0.120	50	450	1.600	D
D		sarking membrane sd ≤ 0,3m			1000		E
E	24.0	planking spruce wood closed cladding without spacing of cladding boards	0.120	50	450	1.600	D
F	260.0	construction timber (80/...; e=800)	0.120	50	450	1.600	D
G	260.0	Cellulose fibre [038; 50]	0.038	1	50	2.000	E
H	19.0	(sealed with airtight tape)	0.120	50 - 150	475	1.600	D
I		vapour barrier sd ≥ 6m			1000		
J	100.0	spruce wood cross battens (50/80;a=400)	0.120	50	450	1.600	D
K	100.0	sheep wool [040; 30]	0.040	1	30	1.720	E
L	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2
L	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

013_{kon} 26.3

Calculated by IBO

Details of sustainability rating

Database ecoinvent

Lifecycle (Phases)	GWP [kg CO ₂ -e.]	AP [kg SO ₂ -e.]	EP [kg PO ₄ -e.]	ODP [kg R11-e.]	POCP [kg Ethen-e.]	
A1 - A3		0.131	0.059	3,13E-6	0.033	

Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]
A1 - A3	115.060	885.384	1000.444	502.603	13.709	516.312