

One-storey House with Flat Roof

Timber frame-panel construction set

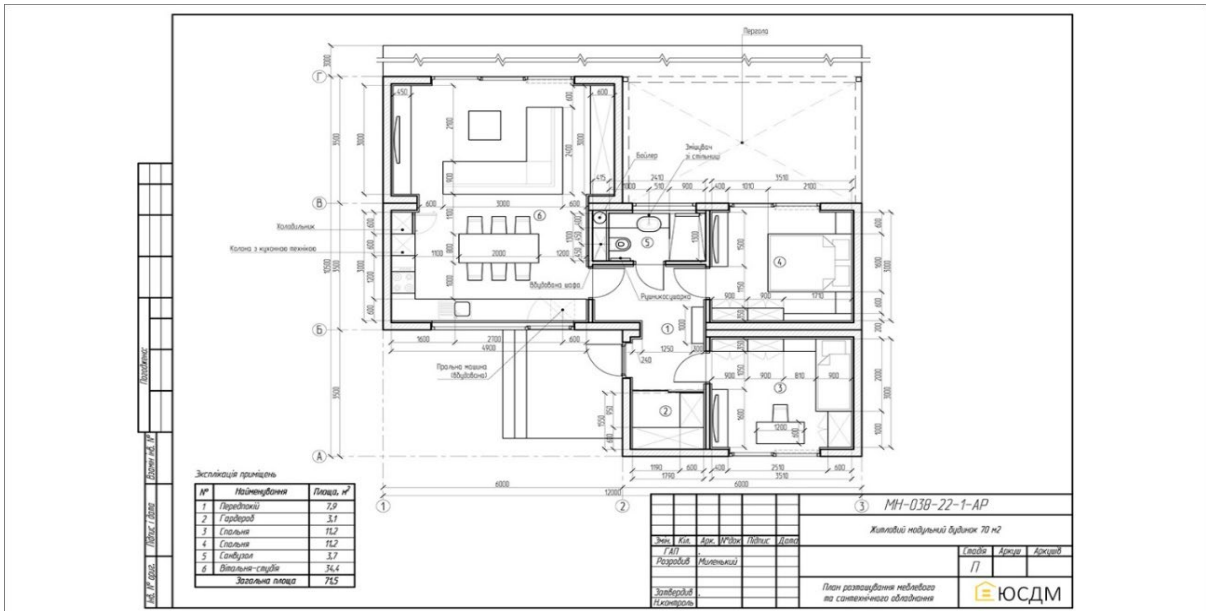
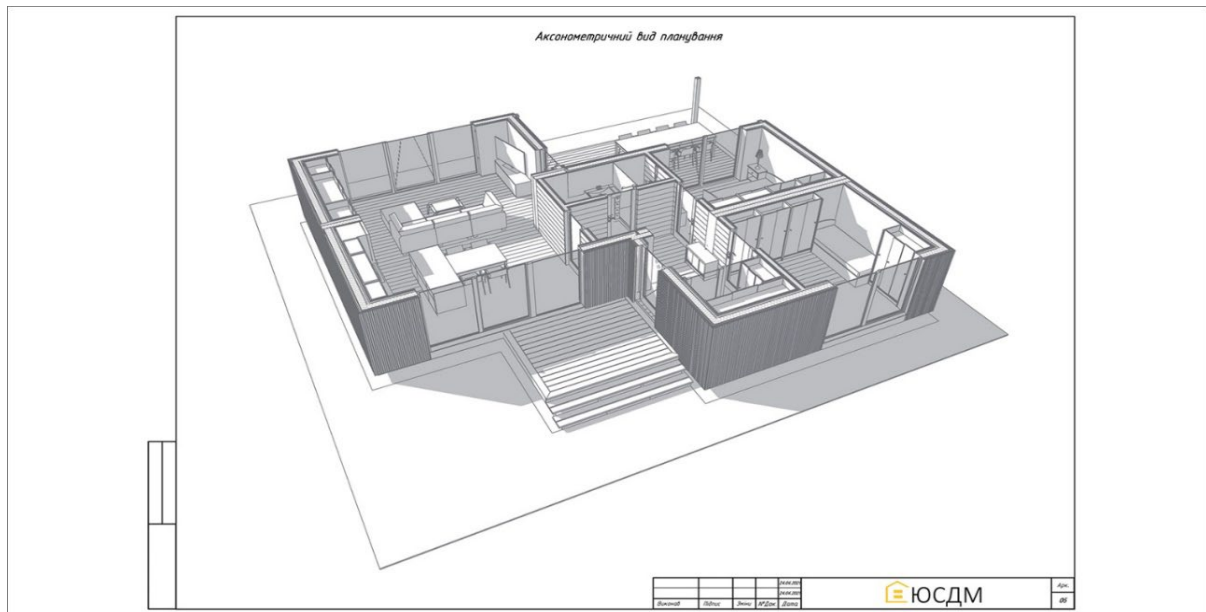
Transmission heat losses on exterior envelope of the house (outer walls, roof, windows and doors)
comply with KfW Effizienzhaus 40 Plus

House envelope, U, W/m²K, does not exceed							0,19
Outer walls, ceiling, roof, inner walls, inner partitions, windows and outer doors							
Outer walls - plaster ready							
Roof - roofing ready							
Windows and outer doors mounted into outer walls							
Inner finishing layer - gypsum plasterboard							
Electric pipes and sockets installed in walls							
House Inner area, m²							71,5
	Thickness, mm	U, W/m²K	Area, m²	Price / m²		Cost	
Outer walls:							
Insulation basalt wool IZOVAT, timber, OSB 3, gypsum plasterboard, outer plaster ready	387	0,11	98,28	€	140	€	13 778
Inner walls:							
Insulation basalt wool IZOVAT, timber, OSB 3, gypsum plasterboard	194	0,25	14,56	€	133	€	1 937
Inner partitions:							
Insulation basalt wool IZOVAT, timber, OSB3, gypsum plasterboard	144	0,36	27,16	€	90	€	2 451
Flat Roof:							
Insulation basalt wool IZOVAT, OSB 3, timber, gypsum plasterboard	430	0,09	84,00	€	152	€	12 753
Windows, outer doors:							
Profile Rehau Geneo glazing 4i-16ArTep-4-16ArTep-4i	-	0,76	27,72	€	336	€	9 308
Total cost of construction set				€	40 227		
Price / m² inner area				€	563		

One-storey House with Flat Roof

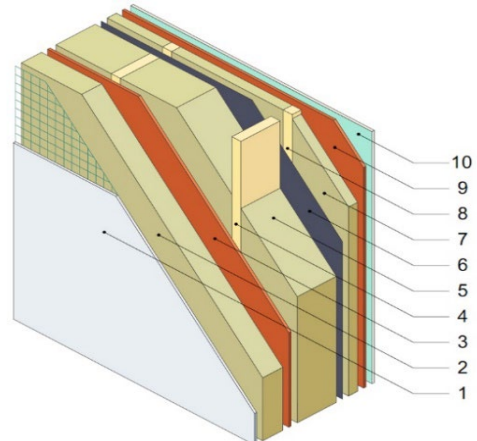
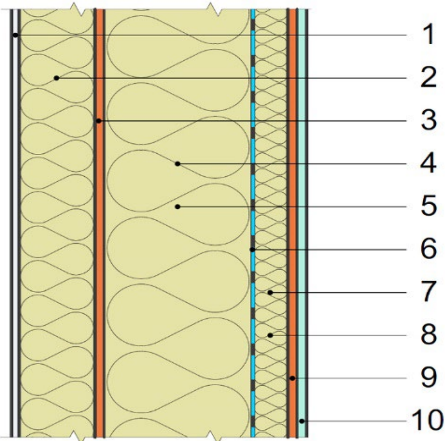
House Inner area, m²

71,5



Outer Walls (Outer Plaster Ready)

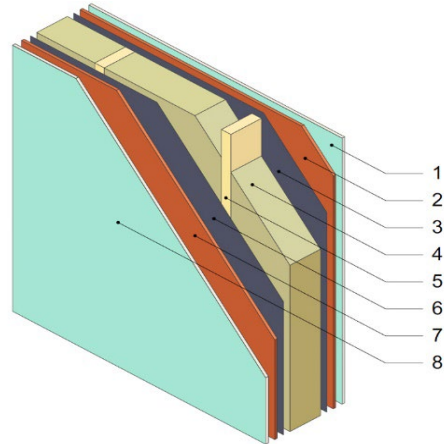
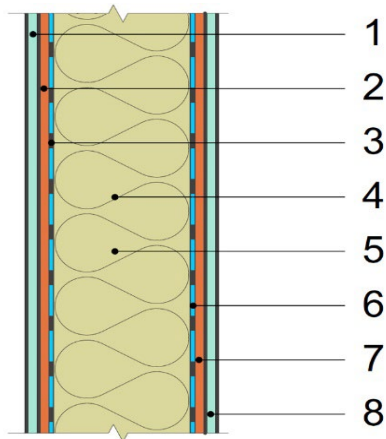
Thickness, mm	386,60
Transmission heat loss, U, W/m ² K	0,11
Area, m ²	126,00
Apertures, m ²	27,72
Estimated Area, m²	98,28



Material	Thickness, mm	
Facade plaster Ceresit CT 85 FLEX Mortar	1	10,00
Facade mesh Ceresit CT325 Glass-Fibre Mesh 160 g /m2		
Insulation basalt wool IZOVAT, 135 kg/m3 100 mm	2	100,00
OSB 3 Egger 12 mm	3	12,00
Timber 45*195 mm C24 CE	4	
Insulation basalt wool IZOVAT, 40 kg/m3 100 mm	5	195,00
Insulation basalt wool IZOVAT, 40 kg/m3 100 mm		
Vapor Control Layer SIGA MajRex	6	0,10
Insulation basalt wool IZOVAT, 40 kg/m3 50 mm	7	45,00
Timber 45x45 mm	8	
OSB 3 Egger 12 mm	9	12,00
Gypsum Plasterboard Knauf	10	12,50
Total Thickness, mm		386,60
Total cost	€	13 777,58
Price / m² estimated area	€	140,19

Inner walls

Thickness, mm	194,20
Transmission heat loss, U, W/m ² K	0,25
Area, m ²	14,56
Apertures, m ²	0,00
Estimated Area, m²	14,56

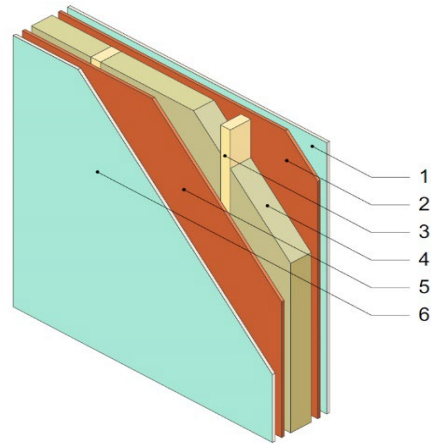
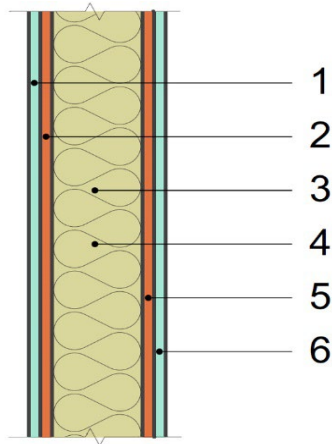


Material	Thickness, mm	
Gypsum Plasterboard Knauf	1	12,50
OSB 3 Egger 12 mm	2	12,00
Vapor Control Layer SIGA MajRex	3	0,10
Insulation basalt wool IZOVAT, 40 kg/m ³ 50 mm	4	145,00
Insulation basalt wool IZOVAT, 40 kg/m ³ 100 mm		
Timber 45*145 mm C24 CE	5	
Vapor Control Layer SIGA MajRex	6	0,10
OSB 3 Egger 12 mm	7	12,00
Gypsum Plasterboard Knauf	8	12,50
Total Thickness, mm		194,20

Total cost	€	1 936,58
Price / m² estimated area	€	133,01

Inner Partitions

Thickness, mm	144,00
Transmission heat loss, U, W/m ² K	0,36
Area, m ²	34,72
Apertures, m ²	7,56
Estimated Area, m²	27,16

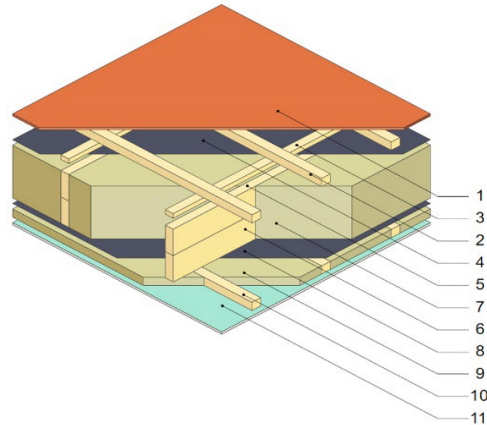
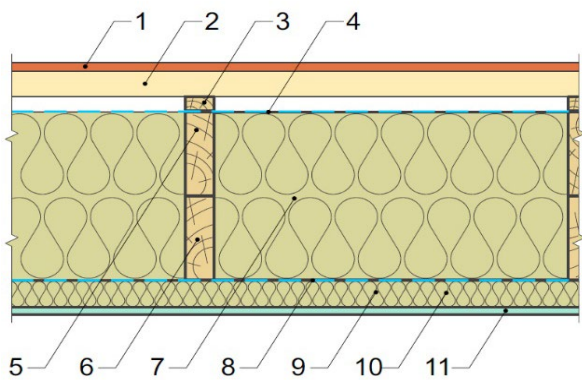


Material	Thickness, mm	
Gypsum Plasterboard Knauf	1	12,50
OSB 3 Egger 12 mm	2	12,00
Timber 45*95 mm C24 CE	3	95,00
Insulation basalt wool IZOVAT, 40 kg/m ³ 100 mm	4	
OSB 3 Egger 12 mm	5	12,00
Gypsum Plasterboard Knauf	6	12,50
Total Thickness, mm		144,00

Total cost	€	2 450,88
Price / m² estimated area	€	90,24

Flat Roof (Roofing Ready)

Thickness, mm	429,70
Transmission heat loss, U, W/m ² K	0,09
Estimated Area, m²	84,00

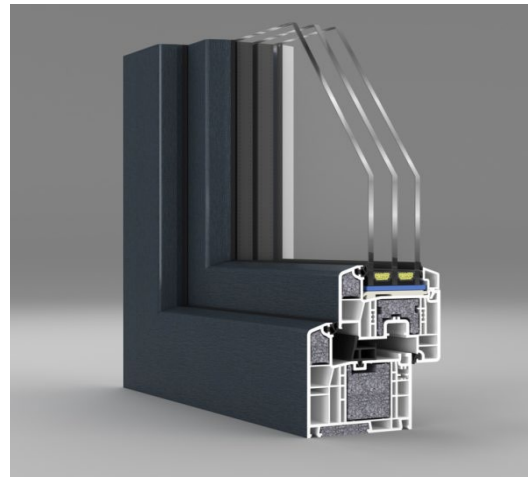


Material	Thickness, mm	
OSB 3 Egger 12 mm	1	12,00
Timber batten 45x50 mm	2	45,00
Timber batten 25x45 mm	3	25,00
Super-diffusive membrane Strotex Basix 1300	4	0,10
Timber 45*145 mm C24 CE	5	290,00
Timber 45*145 mm C24 CE	6	
Insulation basalt wool IZOVAT, 40 kg/m ³ 100 mm	7	
Insulation basalt wool IZOVAT, 40 kg/m ³ 100 mm		
Insulation basalt wool IZOVAT, 40 kg/m ³ 100 mm		
Vapor Control Layer SIGA MajRex	8	0,10
Insulation basalt wool IZOVAT, 40 kg/m ³ 50 mm	9	45,00
Timber 45x50 mm	10	
Gypsum Plasterboard Knauf	11	12,50
Total Thickness, mm		429,70
Total cost	€	12 753,17
Price / m² estimated area	€	151,82

Windows, outer doors

Estimated Area, m²

27,72



Material

Rehau Geneo profile

Profile thickness (depends on window openings)

86 mm - 72 mm

Glazing 4i-16ArTep-4-16ArTep-4i, 44mm

U_g=0,57 W/m²K

Fittings MACO, G-U

Sealing tapes Alenor

Average transmission heat loss, including air heat losses U_w, W/m²K

0,76

Total cost

€ 9 308,38

Price / m² estimated area

€ 335,80