

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 EnEV 2009

House envelope, U, W/m ² K, does not exceed	0,32
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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, m ²	71,5
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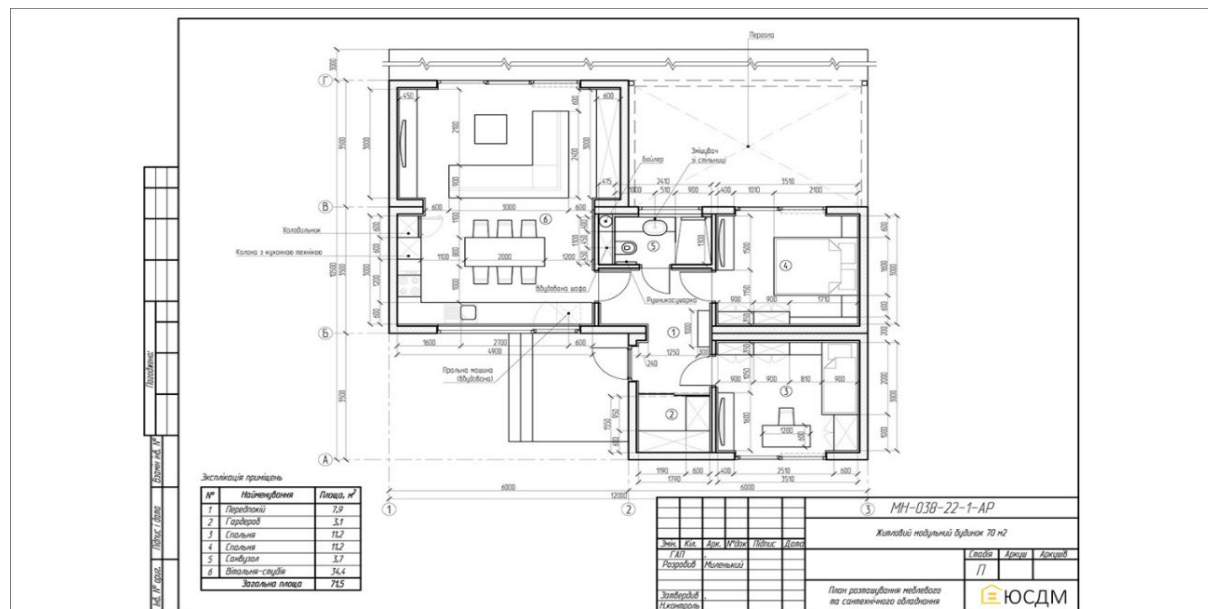
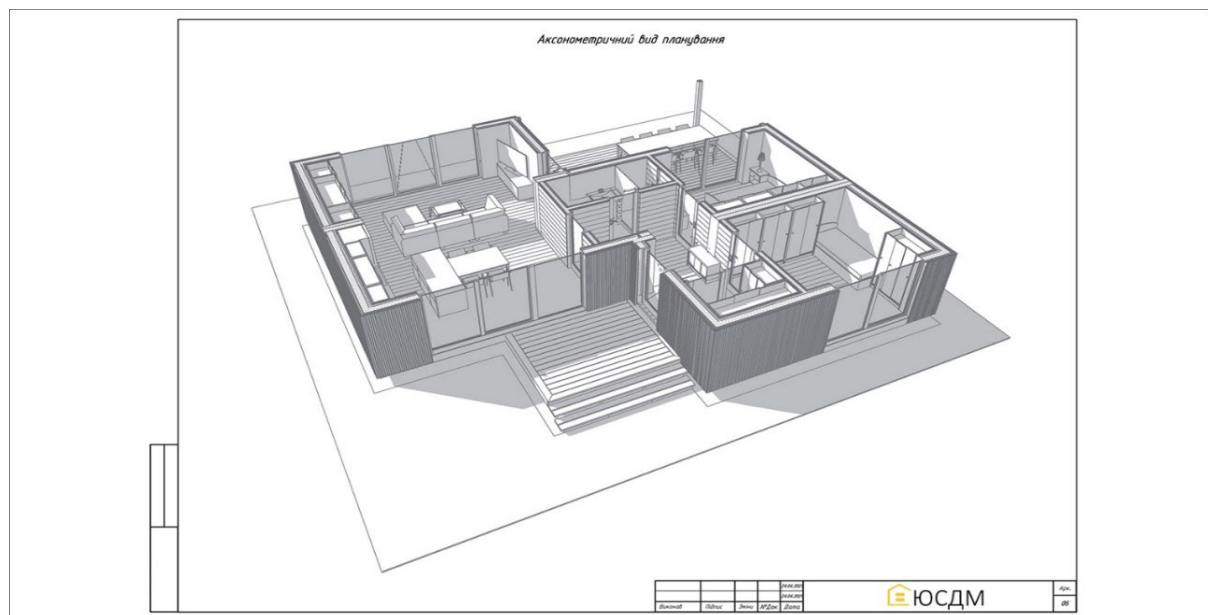
	Thickness, mm	U, W/m ² K	Area, m ²	Price / m ²	Cost
Outer walls:					
Insulation basalt wool IZOVAT, timber, OSB 3, gypsum plasterboard, outer plaster ready	267	0,21	98,28	€ 115	€ 11 346
Inner walls:					
Insulation basalt wool IZOVAT, timber, OSB 3, gypsum plasterboard	194	0,25	14,56	€ 133	€ 1 937
Inner 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	335	0,13	84,00	€ 129	€ 10 841
Windows, outer doors:					
Profile Rehau Euro 70 glazing 4i-14Ar-4-14Ar-4i	-	1,28	27,72	€ 237	€ 6 564

Total cost of construction set	€	33 139
Price / m ² inner area	€	463

One-storey House with Flat Roof

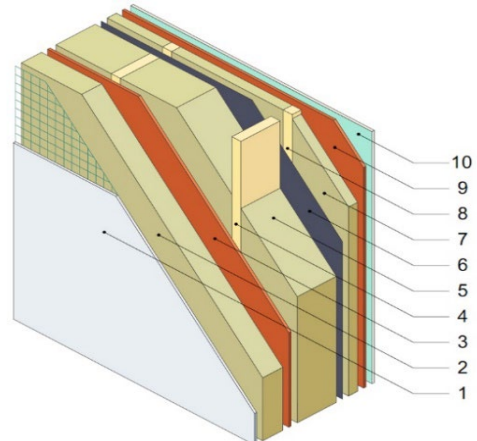
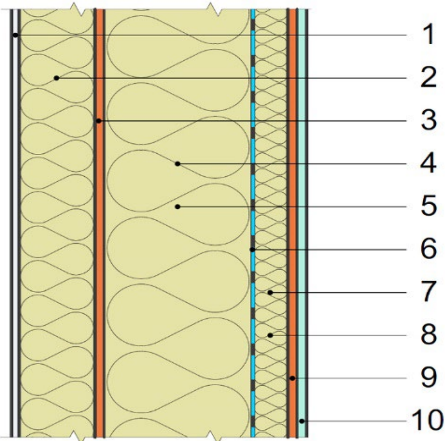
House Inner area, m²

71,5



Outer Walls (Outer Plaster Ready)

Thickness, mm	266,60
Transmission heat loss, U, W/m ² K	0,21
Area, m ²	126,00
Apertures, m ²	27,72
Estimated Area, m²	98,28

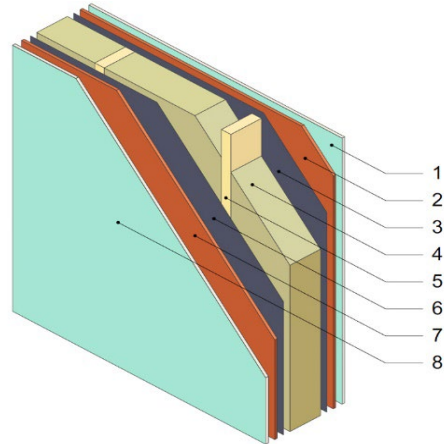
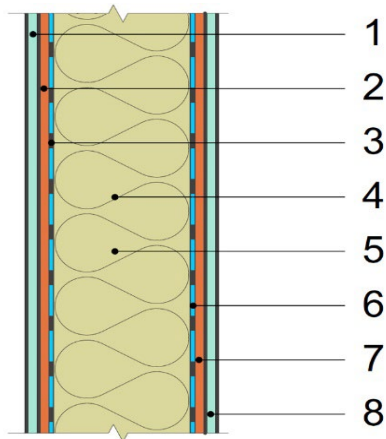


Material	Thickness, mm
Facade plaster Ceresit CT 85 FLEX Mortar	10,00
Facade mesh Ceresit CT325 Glass-Fibre Mesh 160 g /m ²	1
Insulation basalt wool IZOVAT, 135 kg/m ³ 100 mm	2 30,00
OSB 3 Egger 12 mm	3 12,00
Timber 45*145 mm C24 CE	4
Insulation bazalt wool IZOVAT, 40 kg/m³ 50 mm	5 145,00
Insulation bazalt wool IZOVAT, 40 kg/m³ 100 mm	
Vapor Control Layer SIGA MajRex	6 0,10
Timber 45x45 mm	8 45,00
OSB 3 Egger 12 mm	9 12,00
Gypsum Plasterboard Knauf	10 12,50
Total Thickness, mm	266,60

Total cost	€ 11 346,25
Price / m² estimated area	€ 115,45

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

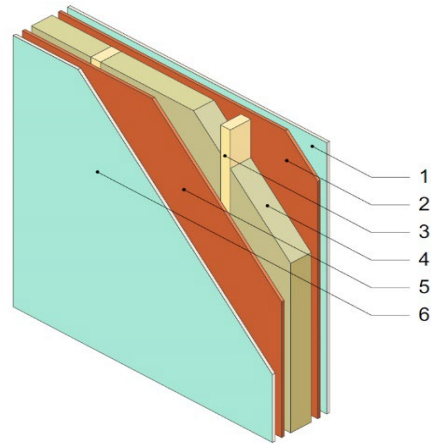
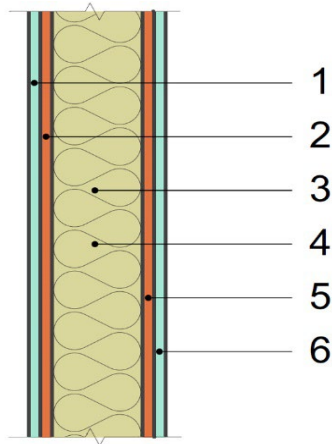


Material	Thickness, mm	
Gypsum Plasterboard Knauf	1	12,50
OSB 3 Egger 12 mm	2	12,00
Vapor Control Layer SIGA MajRex	3	0,10
Insulation basalt wool IZOVAT, 40 kg/m ³ 50 mm	4	145,00
Insulation basalt wool IZOVAT, 40 kg/m ³ 100 mm		
Timber 45*145 mm C24 CE	5	
Vapor Control Layer SIGA MajRex	6	0,10
OSB 3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

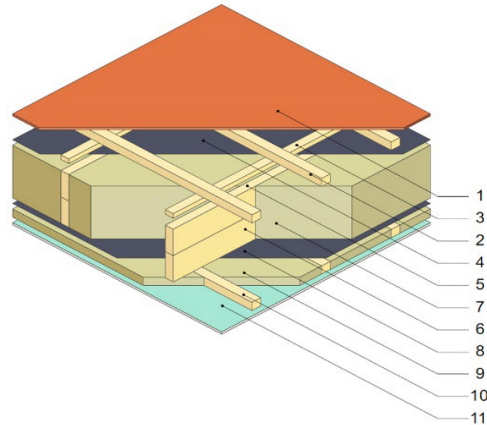
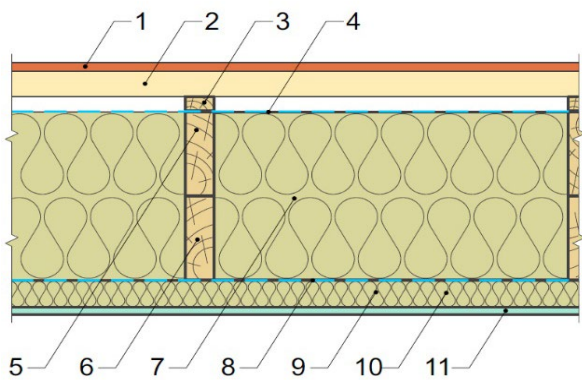


Material	Thickness, mm	
Gypsum Plasterboard Knauf	1	12,50
OSB 3 Egger 12 mm	2	12,00
Timber 45*95 mm C24 CE	3	95,00
Insulation basalt wool IZOVAT, 40 kg/m ³ 100 mm	4	
OSB 3 Egger 12 mm	5	12,00
Gypsum Plasterboard Knauf	6	12,50
Total Thickness, mm		144,00

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

Flat Roof (Roofing Ready)

Thickness, mm	334,70
Transmission heat loss, U, W/m ² K	0,13
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*195 mm C24 CE	5	195,00
Insulation basalt wool IZOVAT, 40 kg/m ³ 100 mm	7	
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		334,70

Total cost	€	10 841,44
Price / m² estimated area	€	129,06

Windows, outer doors

Estimated Area, m²

27,72



Material

Rehau Euro 70

Profile thickness (depends on window openings)

86 mm - 72 mm

Glazing 4i-14Ar-4-14Ar-4i, 40mm

U_g=0,83 W/m²K

Fittings MACO, G-U

Sealing tapes Alenor

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

1,28

Total cost

€ 6 564,10

Price / m² estimated area

€ 236,80