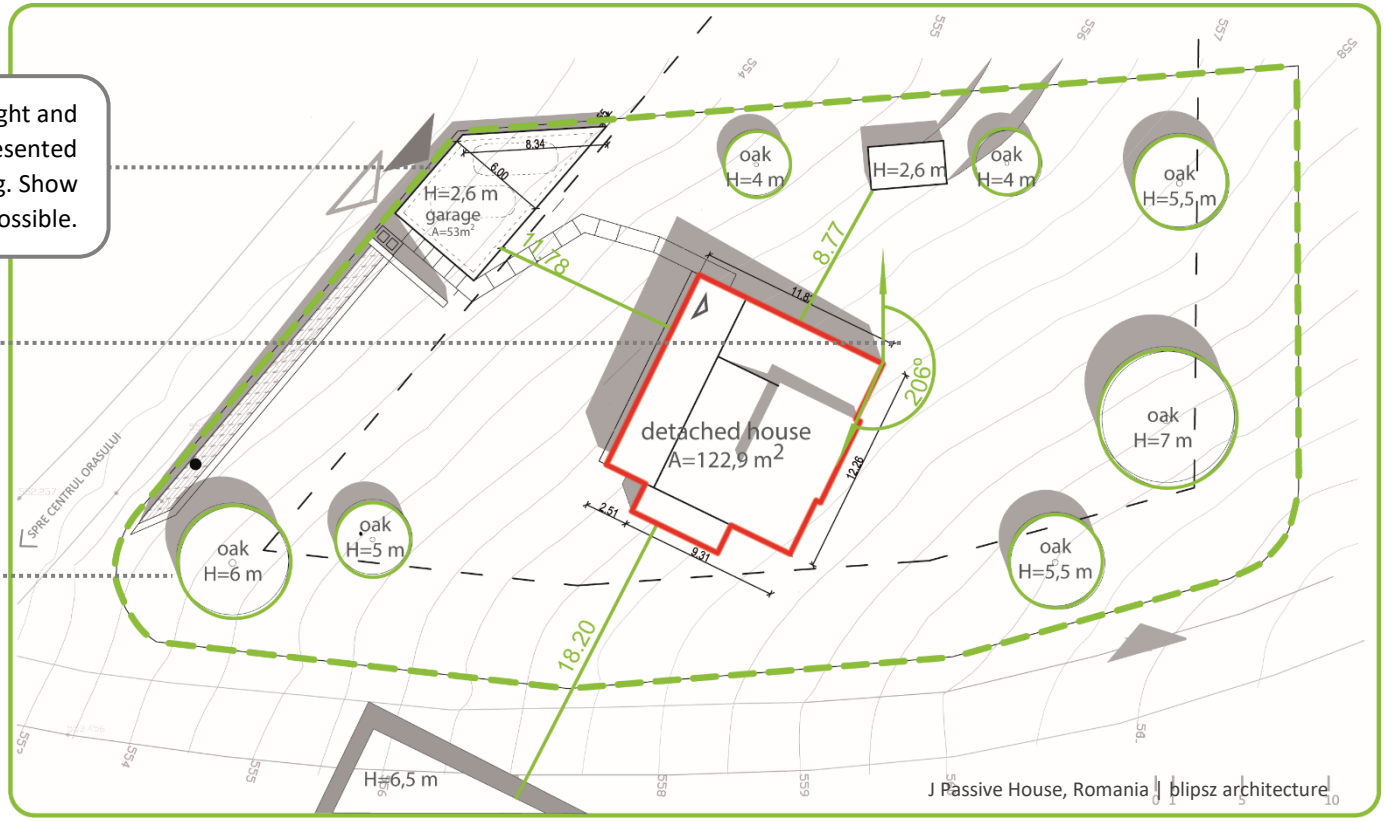
Site plan

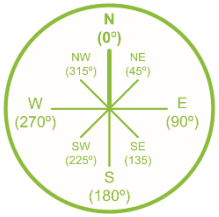
Neighbouring buildings including their height and distance to the proposed building must be represented on the site plan if they shade the building. Show topography if possible.

Angle of deviation from North

Neighbouring vegetation or / and any other elements which shade the building, including height and type of vegetation (e.g. coniferous or deciduous) must also be shown

Graphic identification of the building envelope intended for certification





Scale:
1:200
Angle of deviation from North:
206°

Complete address:
Passive House str. 1
Passive City, 12345

Geographic coordinates:
44 °00`N, 25°30`E,
Height above the sea level:
+/-0.00=556.0m

Floor plan

Cross section

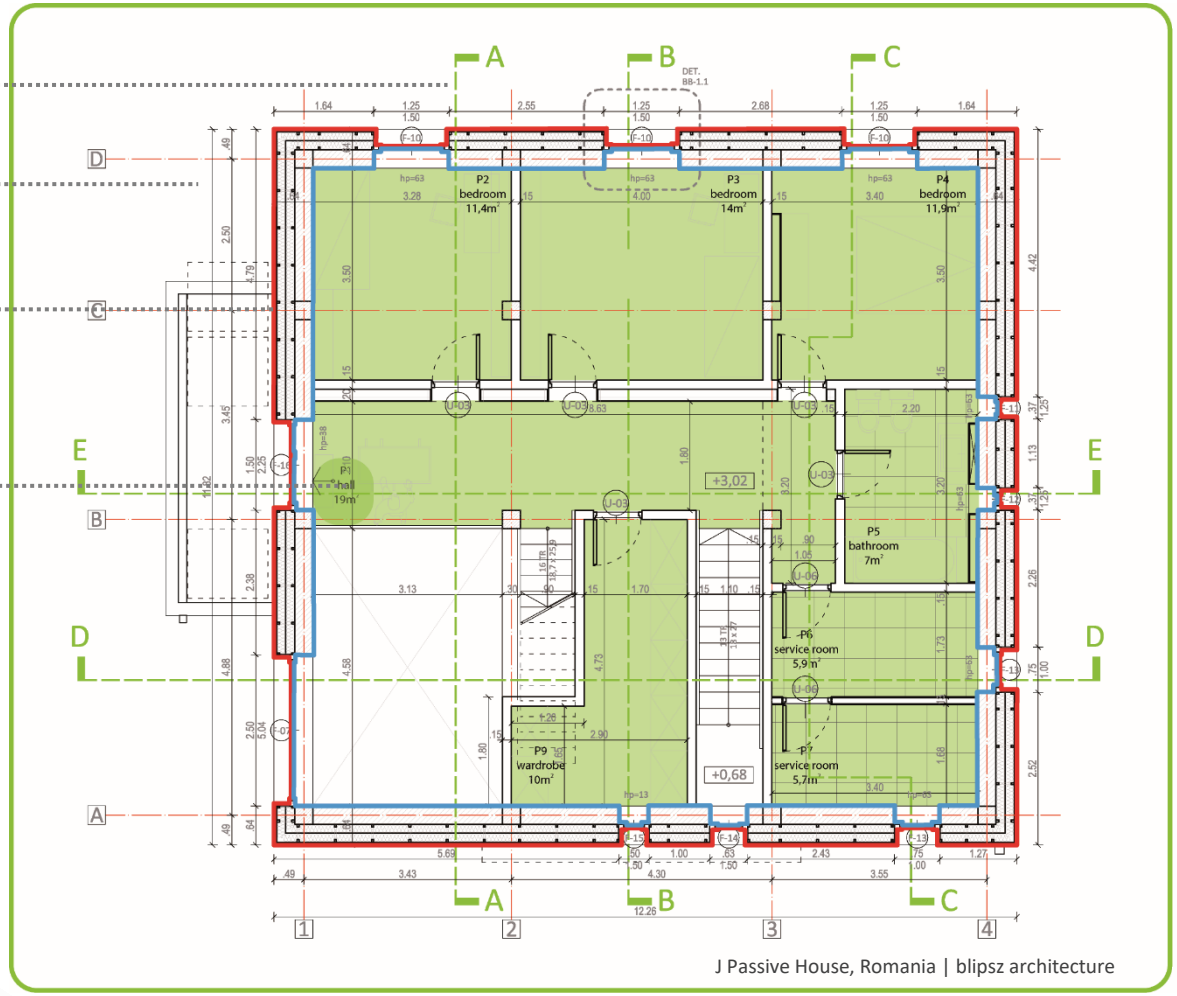
Dimensions

Clear and accurate representation of walls, windows, and doors

Graphic identification and calculation of each assigned TFA together with the surface calculated, and code names and the percentage used in the calculation

Graphic identification of areas where the room height is below 1 m or 2 m to support TFA calculation

Any unconditioned (i.e. non-heated) adjacent spaces must be marked and named accordingly



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Scale:
1:50
or
1:100

Graphic identification and external dimensions of the thermal envelope

Graphic identification of the airtight layer

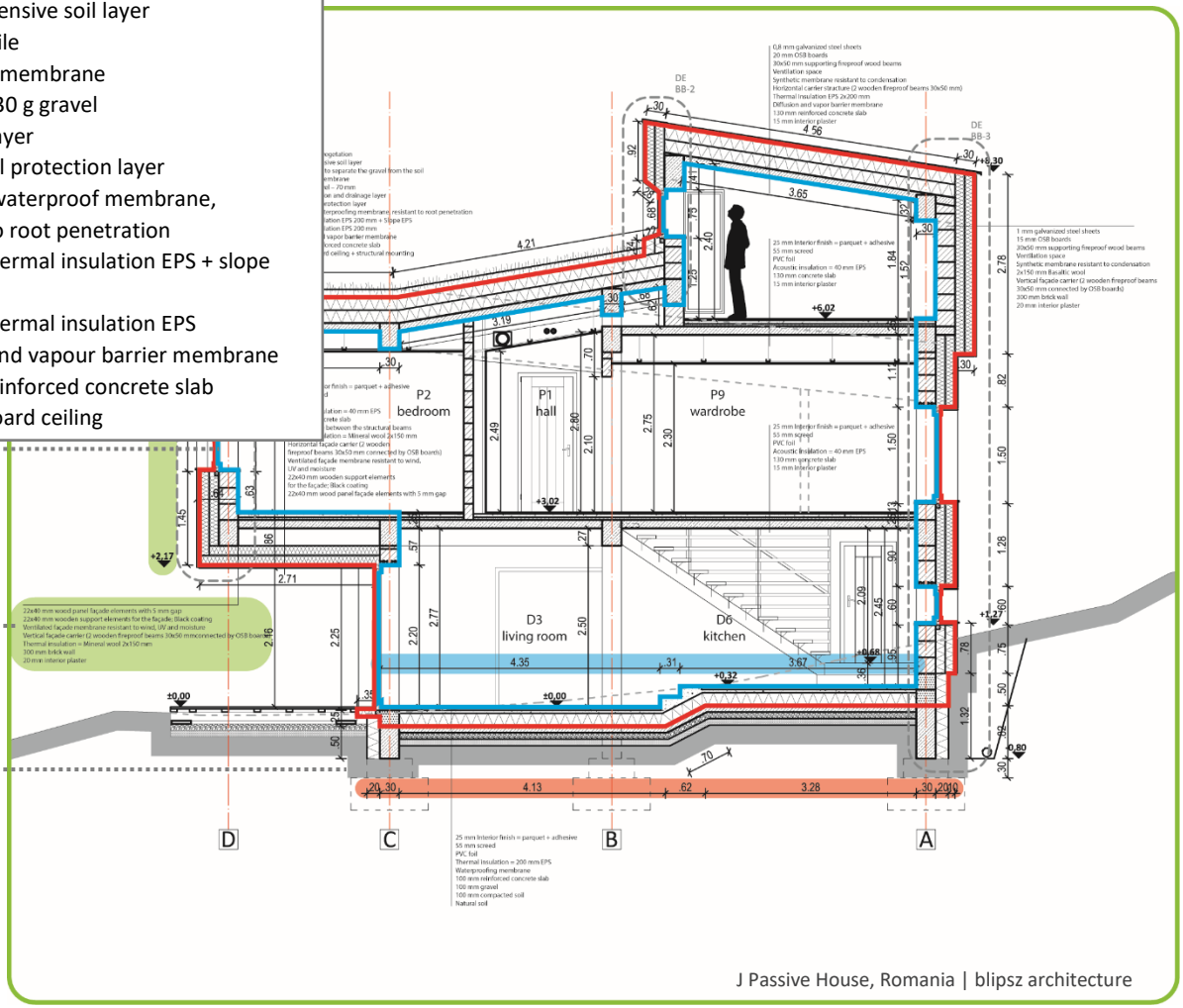
Section

Roof assembly 1 – Green roof
30 mm roof vegetation
40 mm extensive soil layer
Metal profile
Geotextile membrane
70mm 15-30 g gravel
Drainage layer
Mechanical protection layer
Synthetic waterproof membrane, resistant to root penetration
200 mm thermal insulation EPS + slope EPS
200 mm thermal insulation EPS
Diffusion and vapour barrier membrane
130 mm reinforced concrete slab
Gypsum board ceiling

Correct representation of walls, windows, doors, roofs, and floor

Description of each unique envelope assembly (including heterogeneous layers, e.g.: wood/insulation) with their features: manufacturer and product, thickness, thermal

Dimensions



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Scale:
1:50
or
1:100

Graphic identification and external dimensions of the thermal envelope

Graphic identification of the airtight layer

Elevation

Show outdoor and exhaust air vents, grid types, distance from ground

Make sure to show clearly and to name any unheated adjacent rooms accordingly

Show the different type of surfaces (e.g. cladding, stucco etc.)

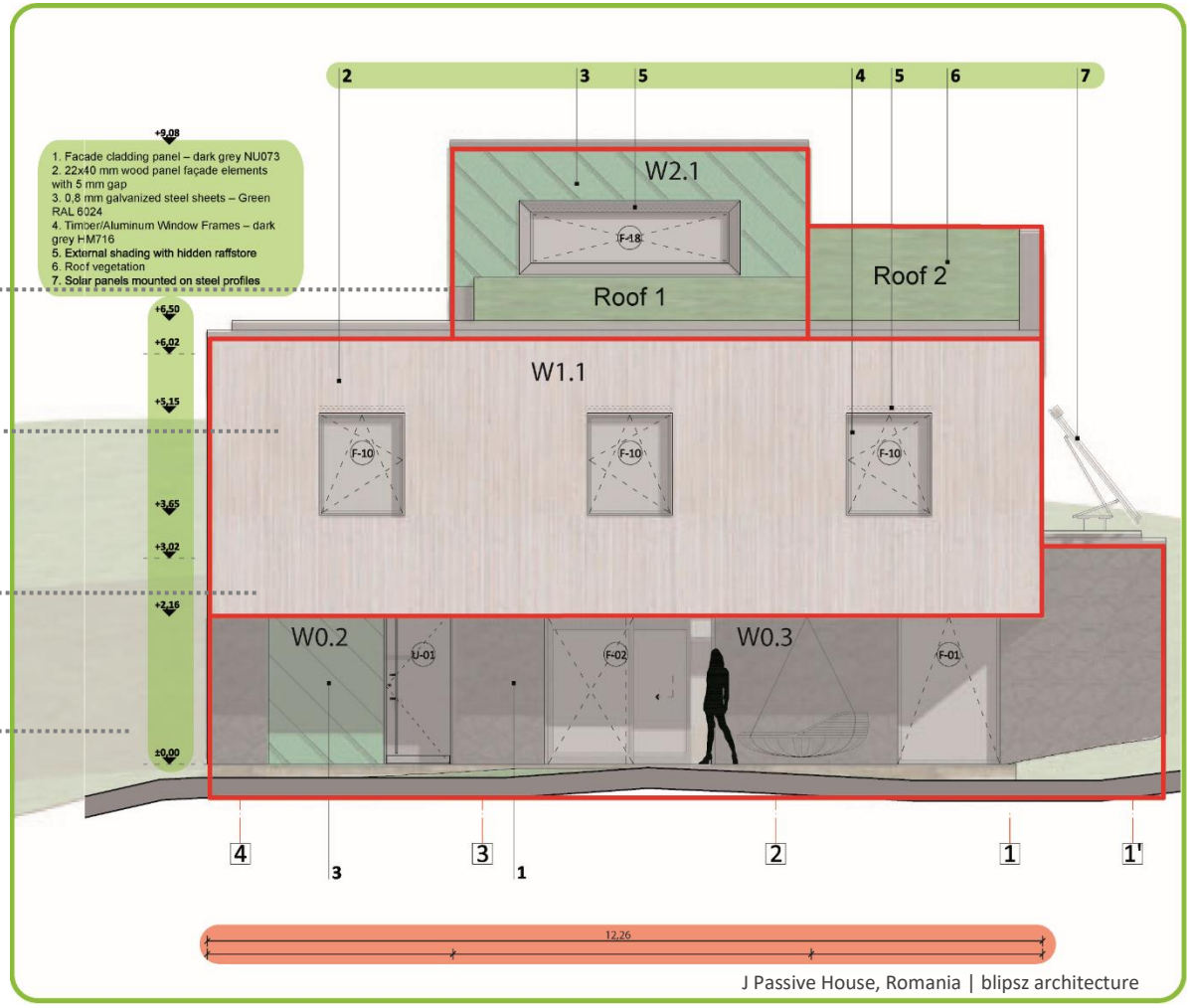
Make sure to name all surfaces and windows using the same naming convention on the drawings, on the window schedule and in the PHPP

Correct representation of walls, windows, and doors

Make sure to show clearly the wall surfaces in contact with the ground as well as the ground line for semi-buried walls

Dimensions

Scale:
1:50
or
1:100



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Graphic identification and external dimensions of the thermal envelope

Standard and connection details

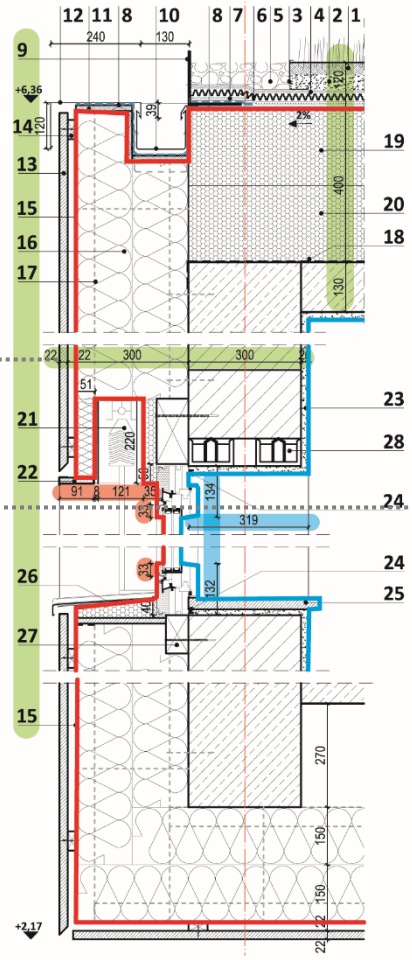
Detailed **construction drawings** should be prepared and submitted to the Certifier for **all** assemblies and connections of the building envelope. The thermal bridge details must be easily identifiable in the PHPP.

Thickness in mm of heterogeneous layers

Description of each component of the detail (incl. heterogeneous layers), product manufacturer and name, thickness [mm], thermal

For masonry/concrete materials:
a| resistance class
b| reinforcement degree
c| volume density

Scale:
1:5
or
1:10
or
1:20



1. 30 mm roof vegetation
2. 40 mm extensive soil layer
3. Metal profile to separate the gravel from the soil
4. Geotextile membrane
5. 70 mm 15-30 gr gravel
6. Water retention and drainage layer
7. Mechanical protection layer
8. Synthetic waterproofing membrane, resistant to root penetration
9. Perimetral plastic profile with side penetrations for drainage
10. 13x20 cm galvanized steel rectangular gutter
11. 15 mm OSB board
12. Drip edge - galvanized steel profile
13. 22x40 mm wood panel façade elements with 5 mm gap
14. 22x40 mm wooden support elements for the façade; Black coating
15. Ventilated façade membrane resistant to wind, UV and moisture
16. 2x150 mm thermal Insulation – Basalt wool
17. Vertical façade carrier (2 wooden fireproof beams 30x50 mm connected by OSB boards)
18. Diffusion and vapor barrier membrane
19. 200 mm thermal Insulation EPS + Slope EPS
20. 200 mm thermal Insulation EPS
21. External shading with hidden raff store
22. OSB + galvanized steel profile
23. Interior plaster applied until the concrete slab level
24. Window perimeter plaster, applied on airtight tape layer
25. 30 mm wooden interior window sill
26. Aluminum exterior window sill
27. 60x100 mm window footing wooden beam
28. Prefabricated lintel

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Graphic identification and external dimensions of the thermal envelope

Graphic identification of the airtight layer