

# Analyse of each layer of the construction

20 mm plywood  
13 mm gypsum board

2 panels layers with staggered joints in order to establish increased sturdiness and sound insulation, and also to make it easier for fix furniture  
- plywood is hidden behind the gypsum-less risk of destroying the insulation.

20 mm vertical cladding

DPM:

- against moisture  
- is placed internally - 1/3 of thickness of the wall

20 mm counter batten

- to mount the cladding

45 mm insulation / stud:

- size 45 x 45 c/c 600 with insulation in between  
- gives opportunity to mount internal cladding

12 mm distance

list:

- to prevent rainwater from that may penetrate the covering from entering the construction behind  
- to create ventilation  
- 12 x 45 mm c/c 600 mm

250 mm insulation:

- to keep the good u-value of the wall  
- increased sound  
- keep the heat  
- give strength for construction  
- steel frame

Wind barrier:

To prevent the wind from blowing through the insulation, in a construction without wind barrier even a small error in the adaptation of the insulation may be result in a considerable reduction of insulation effect.

