

YV150+50+GUgips-Norge-u-verdi-KNAUF

Thermal protection

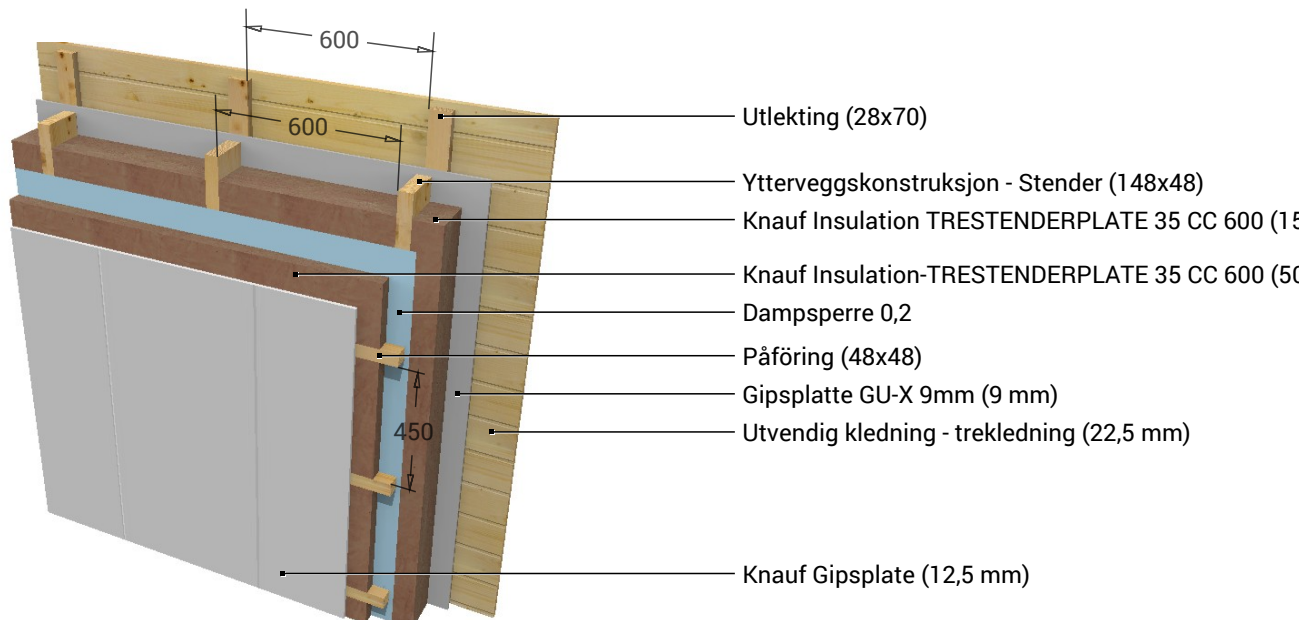
U = 0,19 W/(m²K)

GEG 2020 Bestand*: U<0,24 W/(m²K)



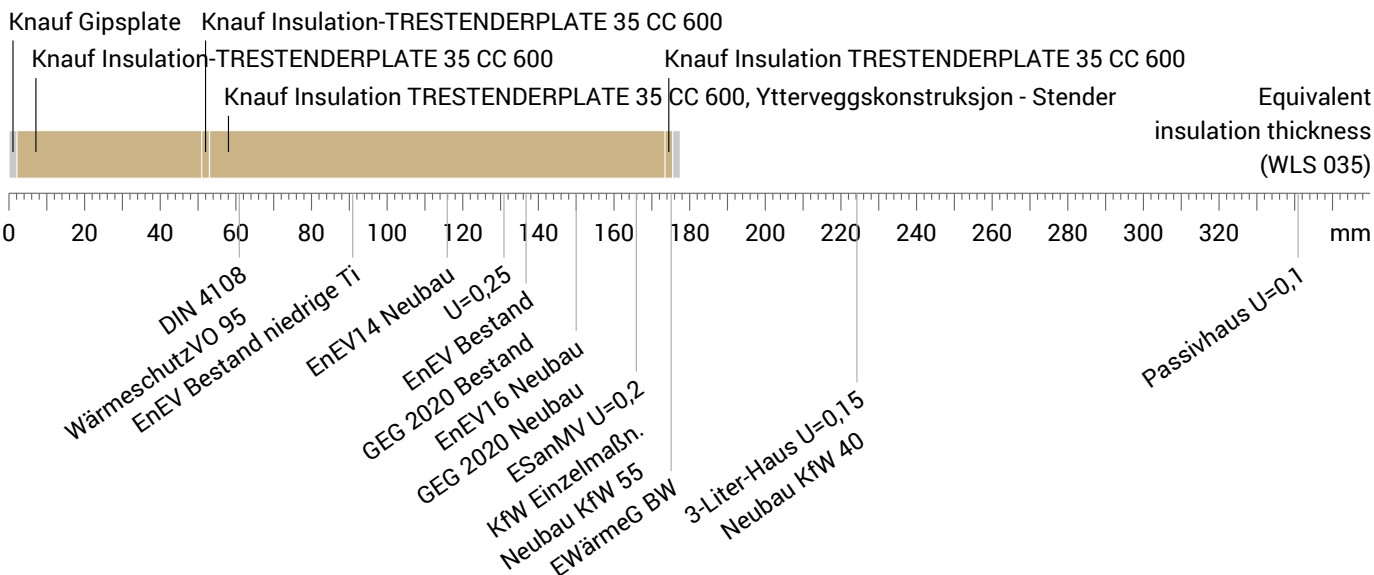
Heat protection

Temperature amplitude damping: 4,3
phase shift: 6,3 h
Thermal capacity inside: 12,5 kJ/m²K



Impact of each layer and comparison to reference values

For the following figure, the thermal resistances of the individual layers were converted in millimeters insulation. The scale refers to an insulation of thermal conductivity 0,035 W/mK.



Inside air : 20,0°C / 50%
Outside air: -5,0°C / 80%
Surface temperature.: 18,6°C / -4,8°C

Thickness: 27,2 cm
Weight: 40 kg/m²
Heat capacity: 25 kJ/m²K

- GEG 2020 Bestand
- BEG Einzelmaßn.
- GEG 2020 Neubau
- DIN 4108

*Comparison of the U-value with den Höchstwerten aus GEG 2020 Anlage 7 (GEG 2020 Bestand); den techn. Mindestanforderungen für BEG Einzelmaßnahmen; 80% des U-Werts der Referenzausführung aus GEG 2020 Anlage 1 (GEG20 Neubau); den R-Werten aus DIN 4108-2 Tabelle 3